



EDIUS

EDIT ANYTHING


Reference Manual

version 6.5

www.grassvalley.com

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Manual Explanation

- If there are any variations between the explanation in this manual and the actual application method, priority is given to the actual application method.
- This manual is a common manual for EDIUS Elite, EDIUS Pro, EDIUS Neo and EDIUS Express. Description and screenshots used in this manual are based on EDIUS Elite or EDIUS Pro.
- The images used in this manual are prototypes and they may be different from the screens of the actual product.
- This manual is written for people who have a basic knowledge of how to use a computer. If there are no special instructions, perform the same operation as a normal computer operation.
- In this manual, EDIUS Elite, EDIUS Pro, EDIUS Neo, EDIUS Express and EDIUS series are called "EDIUS".
- In this manual, Microsoft® Windows® 7 operating system is called Windows 7 (collective term for Ultimate, Professional, Home Premium, and Home Basic).

DANGER

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In rare cases, flashing lights or stimulation from the bright light of a computer display or TV monitor may trigger temporary epileptic seizures or loss of consciousness. It is believed that even individuals whom have never experienced such symptoms may be susceptible. If you or close relatives have experienced any of these symptoms, consult a doctor before using this product.

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EDIUS Reference Manual

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CHAPTER 1

Preface

This chapter explains new functions, changed functions, and functional differences by product.

New Functions and Changed Functions

The following describes new functions and changed functions of EDIUS Elite.

For functions that cannot be used with EDIUS Pro, EDIUS Neo and EDIUS Express, see “List of Functional Differences by Product”.

List of Functional Differences by Product ▶ P7

EDIUS 6.5

The following describes differences with EDIUS 6.07.

New Functions

Import and export	Reference
<p>Supports import of QuickTime and Grass Valley HQX MOV with 10-bit precision.</p> <p>Supports export as uncompressed (v210) AVI with 10-bit precision.</p> <p>To import or export files with 10-bit precision, set [Video Quantization Bit Rate] to [10bit] in the [Project Settings] (Detailed Settings) dialog box.</p>	<p>Creating New Project Presets at Initial Start-up of EDIUS Elite/EDIUS Pro ▶ P37</p> <p>[Project Settings] (Detailed Settings) Dialog Box ▶ P39</p>
<p>Supports export of 32-bit float audio with Grass Valley HQX AVI, Grass Valley HQ AVI, DV AVI, DVCPRO50 AVI, DVCPRO HD AVI, Grass Valley Lossless AVI, uncompressed (RGB) AVI, uncompressed (YUY2) AVI, and uncompressed (UYVY) AVI exporters.</p> <p>To export as 32-bit float audio, set [Audio Quantization Bit Rate] to [32bit] in the [Project Settings] (Detailed Settings) dialog box.</p>	<p>[Project Settings] (Detailed Settings) Dialog Box ▶ P39</p>
<p>Supports export of files with alpha channel retained with Grass Valley HQ, Grass Valley HQX and uncompressed (RGBA) AVI exporters.</p> <p>To export files with alpha channel retained, set [Video Channel] to [YCbCr + Alpha] in the [Project Settings] dialog box.</p>	<p>[Project Settings] (Detailed Settings) Dialog Box ▶ P39</p>
<p>Adds file formats to be imported.</p> <ul style="list-style-type: none"> • Flash Video (*.f4v) • ICO Decoder (*.ico, *.icon) • JPEG (*.ico, *.icon) • Multi-Picture format file (*.mpo) • RED file (*.R3D) • WMPPhoto Decoder (*.wdp) 	<p>Registerable File Formats ▶ P155</p>
<p>Supports import of still image files compatible with WIC codec (such as RAW format by each camera manufacturer).</p>	<p>Registerable File Formats ▶ P155</p>
<p>Supports import of sources in RED format.</p> <p>The playback image quality can be set.</p>	<p>[RED] ▶ P81</p>
<p>Adds the pass-through function for MXF and K2 Clip ancillary data. (Playback and capture are supported only when STORM 3G ELITE or STORM 3G is used.)</p>	<p>[Playback] ▶ P93</p> <p>[Print to File] (Detailed Settings) Dialog Box ▶ P424</p>
<p>Adds the pass-through function for K2 Clip audio bitstream.</p>	<p>[Playback] ▶ P93</p> <p>[Print to File] (Detailed Settings) Dialog Box ▶ P424</p>
<p>Enables to set the transfer destination used when importing files from the source browser to other than the project folder.</p>	<p>[Source Browser] ▶ P78</p>

Import and export	Reference
Adds available formats for exporting files. <ul style="list-style-type: none"> • Uncompressed (RGBA) AVI (*.avi) • Uncompressed (v210) AVI (*.avi) • Flash Video (*.f4v) • HQ MXF (*.mxf) • HQX MXF (*.mxf) • 3D P2 export format • Panasonic 3DA1 export format • DCF thumbnail files (*.thm) 	Export Formats ▶ P417
Supports export of files in F4V format for Flash.	Flash Video (F4V) Export ▶ P431
Supports import and export of QuickTime movies (*.mov) in Grass Valley HQ Codec/Grass Valley HQX Codec.	Exporting in QuickTime Playback Format ▶ P427
Supports batch-export of still image files.	Exporting Multiple Sequences/Ranges Together ▶ P442
Adds the following functions to Disc Burner. <ul style="list-style-type: none"> • Supports BD export in MPEG2 codec. • Support export in 50p and 60p formats. 	Exporting to Disc ▶ P446
Supports import of K2 Clip proxy files.	Loading K2 Clip Files to Be Managed by the K2 Media Server ▶ P467
Setting	Reference
Enables to display the thumbnail for clips in succession on the timeline.	[Timeline] ▶ P90
Enables to keep playback of clips on the Player when placing clips on the timeline while playing back on the Player.	[Playback] ▶ P93
Enables to hide an alarm message displayed when a preview device is not compatible with the video format in the current project settings.	Setting Preview Devices ▶ P115
Enables to preview video with alpha channel in gray-scale.	Showing/Hiding Alpha Channel ▶ P134
3D editing	Reference
Adds the stereoscopic edit mode. Enables to edit and export stereoscopic video. Set [Stereoscopic Editing] to [ON] in the [Project Settings] (Detailed Settings) dialog box.	[Project Settings] (Detailed Settings) Dialog Box ▶ P39 3D Editing ▶ P314
Enables to preview stereoscopic video in the stereoscopic processing format such as side-by-side or anaglyph.	[Monitor] ▶ P94 Setting Preview Devices ▶ P115 Displaying Preview Window in Stereoscopic Edit Mode ▶ P134
Supports capture of stereoscopic sources.	[Capture] ▶ P75 Capture of Stereoscopic Sources (L/R Separate Capture) ▶ P148
Supports import of stereoscopic source files.	Importing Stereoscopic Sources ▶ P168
Adds the function to create stereoscopic clips. Enables to set the separate clips of the L and R sides in the bin as a stereoscopic clip and handle non-stereoscopic clip where video is divided as a stereoscopic clip.	Creating Stereoscopic Clips ▶ P194
Enables to apply effects only on the L side or R side of the stereoscopic video.	Applying Video Filters to L or R Side Only ▶ P357
Adds the effect to adjust the gap between the L and R sides of the stereoscopic video.	Adjusting Video Drift in Stereoscopic Clips ▶ P333

3D editing	Reference
Enables to display the vector scope/waveform for only the L side or the R side of the stereoscopic video.	<i>[Vector Scope/Waveform]</i> ▶ P365
Adds the function to collect only the L side of the stereoscopic clips at checkout of the project in field editing.	<i>Checking Out Projects (Check-out)</i> ▶ P63
Supports export of stereoscopic video to file, tape, and disc.	<i>Exporting Stereoscopic Projects to File</i> ▶ P440 <i>Exporting Stereoscopic Projects to Tape</i> ▶ P455 <i>Exporting to Disc</i> ▶ P446
Editing	Reference
Adds [Grass Valley HQX Online Quality], [Grass Valley HQX Offline Quality], [Grass Valley HQX High Quality SD downconvert] and [Grass Valley HQX Low bitrate SD downconvert] as formats to be selected when converting files from the bin.	<i>Converting Files</i> ▶ P198
Adds the preroll edit function. Enables to place sources on the timeline while checking the switching of the cuts.	<i>[Pre-Roll Editing]</i> ▶ P96 <i>Previewing Cut Switch Points (Preroll Edit (Preview))</i> ▶ P232 <i>Placing Clips while Checking Cut Switch Points (Preroll Edit (Rec))</i> ▶ P232
Adds the gang function. Enables to synchronize the cursor positions or In and Out points of the timeline and the Player.	<i>Synchronizing the Player and the Timeline (Gang Mode)</i> ▶ P292
Adds the following functions to the layouter. <ul style="list-style-type: none"> • Enables to set a resampling method used when transforming video. • Enables to move the selected path or anchor horizontally. • Extends the function to add a frame or drop shadow to video after cropping. • Adds settings items related to stereoscopic function. • Enables to configure the setting values in edit menus to the layout saved as default values in the [Parameter] tab. • Enables to add key frames by double-clicking the preview. • Adds a keyboard shortcut to set a key frame. • Enables to add key frames for parameter items in the layout where the preset is set to [Default]. • Enables to delete all key frames at once in each parameter item. 	<i>[Project Settings] (Detailed Settings) Dialog Box</i> ▶ P39 <i>Video Layout</i> ▶ P254
Effect	Reference
Moves the system presets to the folder in [VideoFilters] or [AudioFilters] in the [Effect] palette.	—
Adds the types of effects to be processed with 10-bit precision retained.	<i>How to Apply Effects</i> ▶ P322
Adds the types of effects to be applied to alpha channel.	<i>How to Apply Effects</i> ▶ P322
Adds the following functions for effects where key frames such as color correction or mask filter can be set. <ul style="list-style-type: none"> • Adds a keyboard shortcut to set a key frame. • Enables to add key frames by default in each parameter item. • Enables to delete all key frames at once in each parameter item. 	<i>Key frame setting</i> ▶ P329
Adds the following functions to the mask filter. <ul style="list-style-type: none"> • Enables to specify video filter effect level to be set to the inside or outside of the path in the mask filter. • Enables to move the selected path or anchor horizontally. • Adds settings items related to stereoscopic function. • Enables to add key frames by double-clicking the preview. 	<i>Mask Filter</i> ▶ P335

Audio	Reference
Adds the function to measure volume based on loudness standards.	<i>[Loudness Meter]</i> ▶ P77 <i>Measuring Volume</i> ▶ P408

Changed Functions

Setting	Reference
Changes some setting items in the [Project Settings] (Detailed Settings) dialog box.	<i>[Project Settings] (Detailed Settings) Dialog Box</i> ▶ P39
Changes [Full Screen Preview] in [User Settings] to [Monitor].	<i>[Monitor]</i> ▶ P94

Editing	Reference
Deletes the [Expansion info] tab in the [Clip Properties] dialog box of the bin or source browser. Check clip information in the metadata view.	<i>Checking Clip Properties</i> ▶ P159 <i>Correcting Properties</i> ▶ P196

Effect	Reference
Deletes the picture-in-picture and 3D picture-in-picture from the [Effect] palette. Same function is available by using the layouter function. The settings can be changed in the [Information] palette as usual when you open the project file that contains clips where picture-in-picture or 3D picture-in-picture is applied.	<i>Video Layout</i> ▶ P254
Changes operations to set fade in/fade out to the clips on the timeline.	<i>[Fade In]/[Fade Out]</i> ▶ P347
Changes the setting screen and function for 2D transition.	—
Enhances the shake stabilizer function. Correct the camera shake by image processing.	<i>Correcting the Camera Shake</i> ▶ P333

Quick Titler	Reference
Changes operations of the Quick Titler preview function and keyboard shortcut.	<i>About the Quick Titler Screen Configuration</i> ▶ P372

Export	Reference
Changes some operations for exporting still image files. Use operations for exporting still image clips from the timeline when you export a single frame on the timeline. To export all frames between In and Out points on the timeline, use the [Still] exporter.	<i>Exporting Still Image Clips from the Timeline</i> ▶ P297 <i>Exporting a Still Image</i> ▶ P431
Moves some setting items in the [Style] tab of Disc Burner to the [Basic] tab.	<i>Exporting to Disc</i> ▶ P446

List of Functional Differences by Product

This manual explains operations based on EDIUS Elite.

Check the following list for functions that cannot be used with EDIUS Pro, EDIUS Neo and EDIUS Express.



- If menus or buttons described in this manual are not displayed, the functions will not be equipped with the product in use.

√: Supported
—: Not supported

Import and export	Elite	Pro	Neo	Express
Audio bitstream pass-through (Dolby-E/AC3)	√	—	—	—
Ancillary data pass-through (Closed caption)	√	√	—	—
MXF import/export	√	√	—	—
GF import/export	√	√	—	—
Infinity import/export	√	√	—	—
P2 import/export	√	√	—	—
P2 PLAYLIST import	√	√	—	—
XF import/export	√	√	—	—
XDCAM import/export	√	√	—	—
XDCAM project (SMI) import	√	√	—	—
XDCAM EX import/export	√	√	—	—
RED import	√	√	—	—
K2 import/export	√	√	—	—
K2 Clip/K2 Program import/export	√	—	—	—
Final Cut Pro XML import	√	√	—	—
EDL import/export	√	√	—	—
AAF import/export	√	√	—	—
EDIUS project (ezp file) import/export	√	√	—	—
Project consolidation	√	√	—	—
Partial transfer	√	√	—	—
Automatic registration of clips (EDIUS Watch Tool)	√	√	—	—
Capture	√	√	√	—
K2 Clip capture	√	—	—	—
MXF capture	√	√	—	—
Simul edit capture	√	—	—	—
Capture of stereoscopic sources (dual stream capture) (only when STORM 3G/STORM 3G ELITE is used)	√	√	—	—
Capture of stereoscopic sources (L/R separate capture)	√	√	√	—
Batch capture	√	√	√	—
Batch export	√	√	—	—
Export to BD/DVD	√	√	√	—
MPEG TS Writer	√	√	√	—
HDV export	√	√	√	—

Import and export	Elite	Pro	Neo	Express
Export to tape	√	√	√	—
Interaction with STRATUS	√	—	—	—

Setting	Elite	Pro	Neo	Express
Free resolution (4k2k compatible)	√	√	—	—
1080/60p	√	√	√	√
Set video quantization bitrate (10-bit mode)	√	√	—	—
Select rendering format	√	√	—	—
Select TC preset	√	√	—	—
Select TC mode	√	√	—	—
Set overscan size	√	√	—	—
Set audio quantization bitrate	√	√	—	—
User profile	√	√	—	—
Dual mode	√	√	√	—

Editing	Elite	Pro	Neo	Express
Multicam editing	√	√	—	—
Rotation of preview window	√	√	—	—
Zebra preview	√	√	—	—
Time remap	√	√	—	—
Vector scope/waveform	√	√	—	—
Proxy editing	√	√	—	—
Preroll editing	√	√	—	—
Gang mode	√	√	—	—
Create subclips	√	√	√	—
Stereoscopic editing	√	√	√	—
Match frame	√	√	√	—
Marker list import/export	√	√	√	—
Trim mode	√	√	√	—
Multiple sequences in a project	√	√	√	—
Nest sequence	√	√	√	—

Audio	Elite	Pro	Neo	Express
Audio mixer	√	√	√	—
Audio channel map	√	√	—	—
Normalize	√	√	—	—
Adjust audio offset	√	√	—	—
Loudness measurement	√	√	—	—
Create audio waveform	√	√	√	—
Voice over	√	√	√	—

Effect	Elite	Pro	Neo	Express
Alpha channel	√	√	√	—
Mask filter	√	√	√	—
Track matte	√	√	—	—
Combine filter	√	√	—	—
After Effects plug-in bridge	√	√	—	—
VST plug-in bridge	√	√	√	—
GPUfx	√	√	√	—
Chromakey/Luminancekey	√	√	√	—
Blend (addition, multiply, etc.)	√	√	—	—
SMPTE transition	√	√	—	—
Shake stabilizer	√	√	√	—

Supported hardware	Elite	Pro	Neo	Express
STORM 3G ELITE	√	√	—	—
STORM 3G	√	√	—	—
STORM MOBILE	√	√	—	—
HDSPARK	√	√	√	—
HDSPARK Pro	√	√	—	—
SHX-E1 SDI	√	√	—	—
SHX-E2 SDI	√	√	—	—
SHX-E1	√	√	—	—
SHX-E2	√	√	—	—
NHX-E1 Bay	√	√	—	—
NHX-E2 Bay	√	√	—	—
NHX-E1	√	√	—	—
NHX-E2	√	√	—	—

CHAPTER 2

Summary

This chapter explains how to read the manuals, how to start EDIUS, and screen configuration.

About Manuals

How to Use the Manuals in the Package

The section explains how to read the manuals and Reference Manual attached to EDIUS.

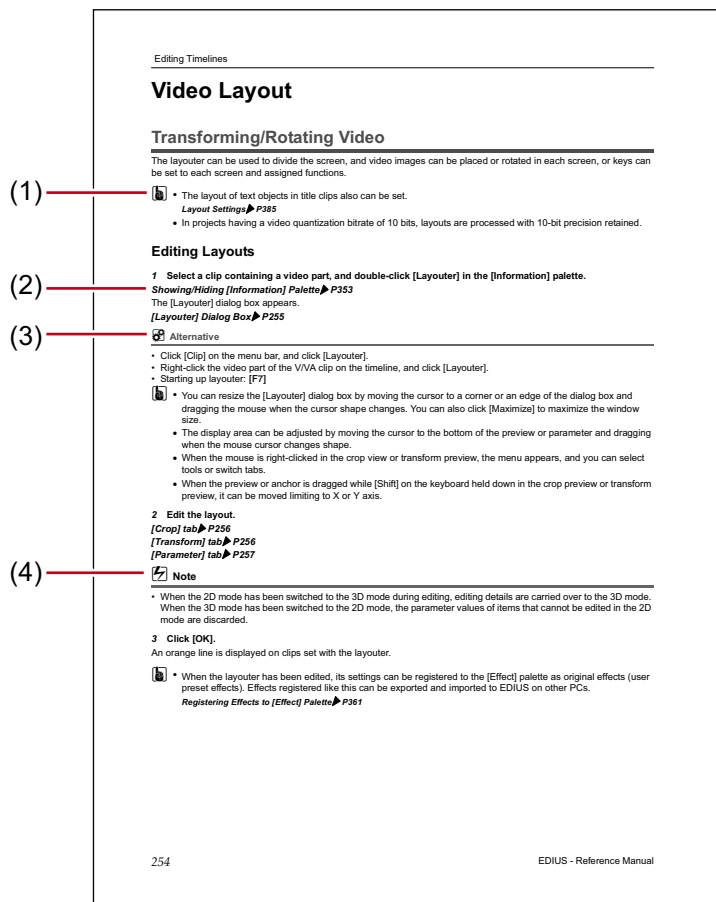
Manuals in the Package

The following explains the manuals attached to EDIUS.

Installation Guide	Explains how to install/uninstall EDIUS and license information.
Reference Manual (This manual)	Describes functions and operations of EDIUS. This manual is a common manual for EDIUS Elite, EDIUS Pro, EDIUS Neo and EDIUS Express. Description and screenshots used in this manual are based on EDIUS Elite or EDIUS Pro, and may be different from those for EDIUS Neo or EDIUS Express. List of Functional Differences by Product ▶ P7
Help	Start up EDIUS and click [Help] → [Help] to display the Reference Manual.

How to Read Reference Manual

The following image illustrates the conventions and their meanings in this manual:



* The illustration is a sample image. This image may differ from the actual page in this manual.

(1)	Point	Explains useful points to operate functions.
(2)	Reference page	Indicates the related pages.

Summary

(3)	Alternative	Explains the alternative procedure to operate the same function of the flow in a different process.
(4)	Note	Explains the points to be aware of or restricted to operate functions.

AVCHD/HDV

AVCHD/HDV Videos

This section explains AVCHD and HDV, the standard recording formats commonly used, and how to handle the high-definition video with EDIUS.

AVCHD

AVCHD is an HD video camera standard for recording high-definition videos, designed by Sony Corporation and Panasonic Corporation. Employing the AVC/H.264 standard to video, high-definition video can be recorded to flash memories or hard disks that are built in cameras, or removable media. As for the audio, it supports the Dolby Digital format (1 - 5.1ch) and Linear PCM format (1 - 7.1ch).

By accessing removable media or cameras from the source browser, AVCHD standard video can be handled with EDIUS, without regard to files.

Importing from Digital Camera ▶ P161

Files (such as *.m2ts) can be imported as they are and edited, if necessary.

HDV

HDV is a standard format for recording high-definition videos, designed by 4 of camera manufacturers in Japan. Despite its data rate same as the DV standard (25 Mbps, approximately 13 GB per hour), it offers high-definition video recordings by incorporating the MPEG-2 technology as its video compression method. With the MPEG-2 technology that is incorporated by the HDV standard, you cannot divide data by 1 frame unit. Therefore, more memory and CPU power is necessary for frame unit editing.

		HDV1080	DV
Recordable media		DV tape	
Recordable duration with 60 min. tape		Approx. 60 min.	
Video	Compress unit	15 frames	1 frame
	Bitrate	25 Mbps	25 Mbps
	Recording resolution	1440×1080	720×480
	Display resolution	1920×1080	720×480
Audio	Recording format	MPEG-1 AudioLayer-2	Uncompressed
	Bitrate	384 kbps	1.5 Mbps
	Sampling frequency	16 bits/48 kHz	

Grass Valley HQ Codec/Grass Valley HQX Codec

EDIUS can capture a high-definition video converting the data to a format that is suitable for frame unit editing. A technology that is used for the conversion is the Grass Valley HQ Codec/Grass Valley HQX Codec. By using the Grass Valley HQ Codec/Grass Valley HQX Codec, the editing response time can be dramatically improved. When you use the Grass Valley HQ Codec, approximate file size will be 7 times larger than the HDV (it may vary depending on the video or settings), therefore, it is recommended to use a hard disk drive that is as fast and large as possible. Grass Valley HQX Codec supports 10-bit video quantization bitrate.

Starting up EDIUS

Start-up and Exit

This section explains how to start up EDIUS, how to operate it at initial start-up, and how to exit the application.

How to Start up

The following explains how to start up EDIUS.

1 Double-click the EDIUS icon on the desktop.

The [Start Project] dialog box appears.

[Start Project] Dialog Box ▶ P17



Alternative

- Click [Start] to display the start menu, and click [All Programs] → [Grass Valley] → [EDIUS].

[Start Project] Dialog Box

Profile list	Manage each profile of the window layouts, system settings, user settings, etc, and use them by switching each. Editing Environment Management ▶ P101
[New Project]	When you use EDIUS Elite or EDIUS Pro and start EDIUS for the first time, click this button to start up the [Create Project Presets] wizard. After you create a new project preset, a new project file can be created. Creating New Project Presets at Initial Start-up of EDIUS Elite/EDIUS Pro ▶ P37 When you use EDIUS Neo or EDIUS Express, or project presets are registered, click this button to display the [Project Settings] (Simple Settings) dialog box and create a new project file. Creating New Project at Start-up ▶ P37
[Open Project]	Click this button to display the [Open] dialog box to open an existing project file.
[Recent Project]	Displays the recently worked project files from the latest one. Double-click the file to open the project file. Every click switches the sorting order to be ascending or descending. Right-click the item name and click the items you want to display or hide. To delete the project history, select and right-click the file and click [Clear history] or [Clear All History]. No project name is displayed if no project file is saved.
[Open]	Open the project file.
[Close]	Exit EDIUS.

At Initial Start-up

When you start up EDIUS for the first time after installation, specify a folder where the project files you use for editing are saved.

1 Start up EDIUS.

2 Enter the serial number, and click [Register].

When using a PC in the online environment, the serial number is registered.

For how to register the serial number on a PC in the offline environment, see the Installation Guide.

3 A message appears, and click [OK].

The [Folder Settings] dialog box appears.

4 Click [Browse] to specify the folder where the project files are saved.

5 Click [OK].



- You can change the save destination of the project folder by using [Application] in [User Settings] → [Project file].

[Project file] ► P92

Exiting Project

Close the project file you edited, and return to the [Start Project] dialog box.

1 Click [File] on the menu bar, and click [Exit Project].

2 Click [Yes].

Click [No] if you do not want to save the project. Click [Cancel] to cancel the operation.

Exiting EDIUS

The following explains how to exit EDIUS.

1 Click [File] on the menu bar, and click [Exit].

2 Click [Yes].

Click [No] if you do not want to save the project. Click [Cancel] to cancel the operation.



Alternative

- Click [×] in the preview window.
- Exiting EDIUS: [Alt] + [F4]

EDIUS Configuration

Edit Workflow and Various Settings

This section explains the workflows to edit videos with EDIUS and their relation to various settings. For the general overview and relationship diagram, see the list of the setting descriptions.

List of Setting Descriptions ▶ P21

If you use a regular user profile, the settings for the editing environment can be changed anytime.



- In EDIUS, both the administrator who configures the environment and the operator who performs the editing tasks in mind, a new restricted user profile with a limited access is introduced to prevent system settings. If access restriction is not required, use the regular user profile.

Editing Environment Configuration (Restricted users cannot perform this task)

Create New Project Presets → Start up Dialog Box or System Settings

Create and register a project preset.

Creating New Project Presets at Initial Start-up of EDIUS Elite/EDIUS Pro ▶ P37

Creating New Project Presets ▶ P47

* A restricted user can change and use the content of the preset, but cannot create a new preset. Before you start editing using the restricted user profile, ensure to create a preset.

Create New Device Presets → System Settings

To use cameras, decks, or Grass Valley hardware products to import sources or export projects, create and register device presets. A device preset is required for each device as well as for each format and file type to import and export.

Registering External Devices that Interact with Device Presets ▶ P106

* A restricted user cannot create or change a device preset. Before you start editing using the restricted user profile, ensure to create a preset with the device, stream type and format,

Other Editing Environment Settings → System Settings

- Configure connection settings and detailed settings to use a preview monitor and/or input controllers including a fader.
- Register the plug-in effects.
- Configure other processes including the capture and rendering.

[System Settings] ▶ P75

Create New Profile → System Settings

If you want to change the editing environments for different projects or use the restricted user profile to perform editing tasks, you can register the device preset described above and other editing environment settings as a profile.

If you use the restricted user profile, you need a restricted user profile for each PC used by a restricted user.

The profiles can be managed through network.

Editing Environment Management ▶ P101

Creating a New Project

Create a New Project → Project Settings

Select a project preset and open a project. The preset content can be changed in the project settings.

Creating New Project at Start-up ▶ P37

Changing Project Settings Temporarily to Create a New Project ▶ P38

Importing Sources

Capturing Sources from Cameras or Decks

Select a device preset and capture sources. A device preset must be created in the system settings before capturing.
Capturing and Importing ► P145

Copying File-Based Sources

Use the source browser to copy source files from CD, DVD, BD, and other devices including AVCHD cameras, P2, and XDCAM[®] easily. Files can be browsed by simply connecting a device or drive to your PC and inserting the storage media.

Importing Files from Source Browser ► P158

* You can register the target in the system settings if you want to browse files previously copied to the hard disks.
[Importer/Exporter] ► P78

Editing Timelines

Configure TC Presets and Channel Maps → Sequence Settings or Project Settings

Configure TC presets and channel maps for each sequence. The default value for a new sequence can be changed in the project settings.

Sequence Settings ► P46

Changing Project Settings ► P46

Customize Editing Environment → User Settings

Customize various settings including the folder to save the project files, timeline settings, information displayed in preview, as well as buttons and windows. Keyboard shortcut and input controller settings can be imported and exported. These settings are recorded in the user profile in use, and changed settings are reflected instantly.

[User Settings] ► P90

Screen Customization ► P119

Registering Profiles ► P101

Editing Video Layouts

Edit the video layout using the layouter. The edited content can be saved as a preset in the layouter or registered as a user preset effect to the effect palette to export.

Video Layout ► P254

User Preset Effects ► P361

Editing Effects

Edit existing effects and register and export as a user preset effect to the effect palette.

User Preset Effects ► P361

Export

Export to File → Exporter

Select an exporter and export to different file types. The exporter settings can be registered and exported as a preset.

Exporting in File Formats ► P417

Creating Preset Exporters ► P441

Export to Devices

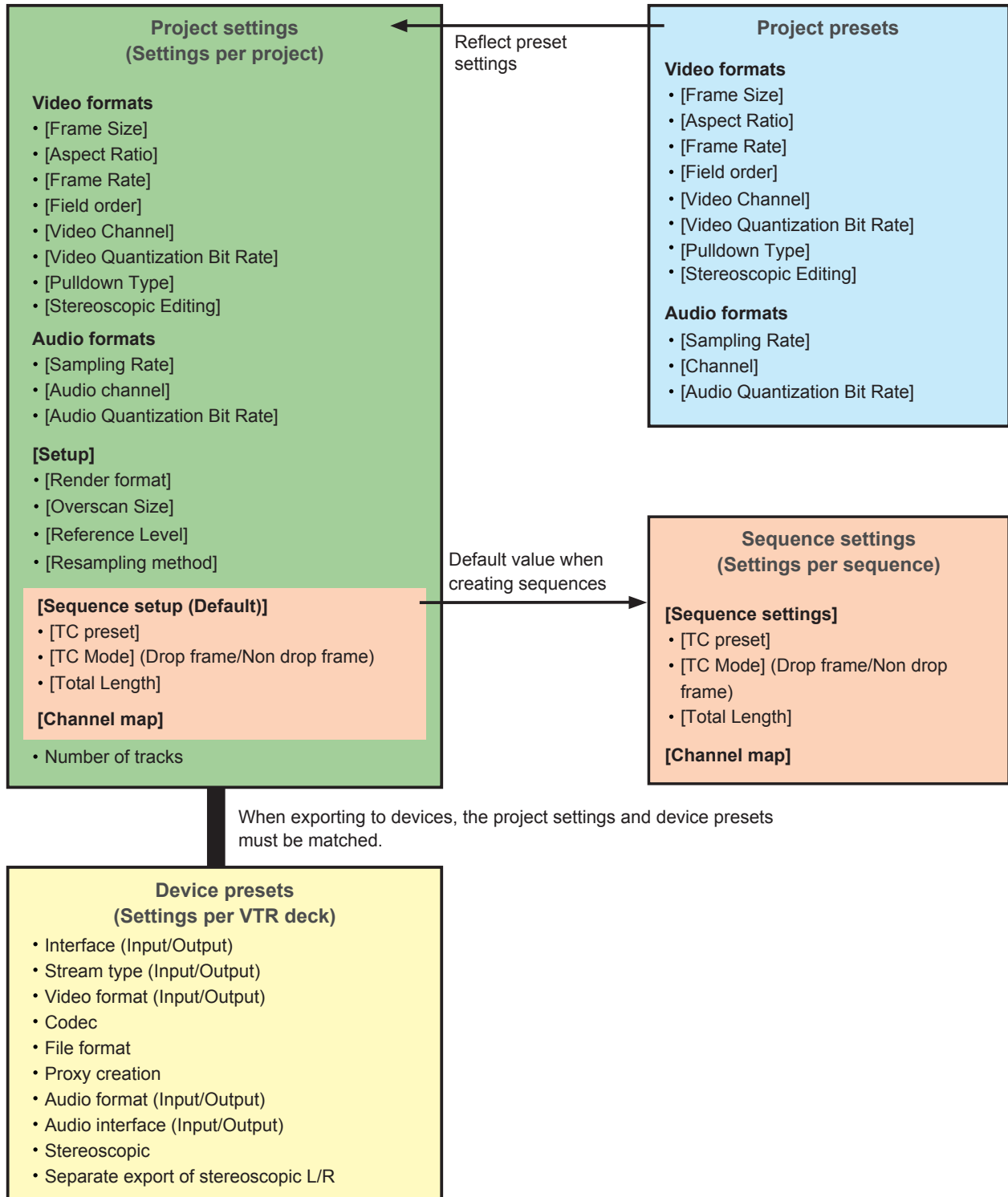
A device preset must be configured to use Grass Valley hardware products or export to other DV devices.

Registering External Devices that Interact with Device Presets ► P106

List of Setting Descriptions

Relationship between Project Settings/Sequence Settings/Device Preset

The following diagram illustrates the settings available in each setting and their descriptions:



System Settings

In the system settings, you can change the settings for project presets, profile management, import/export hardware, configuration for source capture.

If you use the restricted user profile, the system settings cannot be changed.
The major setting items are as follows:

Application settings

Buffer settings
Capture settings
Rendering settings
Profile management
Project preset management
Loudness meter settings
Transfer destination settings for the source browser

Hardware settings

Preview device settings
Device preset management

Importer/Exporter settings

Settings for each importer and exporter

Effect plug-in settings

Plug-in registration

Input controller settings

Connection settings (Key settings for each controller are available in the user settings.)

User Settings

Change how clips are handled on the timeline, or change the user editing environment, for example, by customizing screens or buttons.
Both restricted users and administrator users can change and save settings in profiles from any user profile, and record them to the profiles.

The major setting items are as follows:

Application settings

Project file settings (including save destination)
Match frame settings
Background job settings
Timeline settings
Proxy Mode Settings
Other settings

Preview settings

Playback settings (including preroll)
Monitor settings
On-screen display settings
Information display settings (including zebra preview and safe area display)
Preroll editing settings

User interface settings

Button
Control
Keyboard shortcuts
Bin
Windows color

Source settings

Duration
Automatic correction
Restore offline clip
Partial transfer
K2 assets registration

Input controller

Key settings for each controller



- Keyboard shortcut and input controller key settings can be imported and exported to use in other EDIOUS installations on other PCs.
- Profile can be imported and exported to use in other EDIOUS installations on other PCs. The profiles can also be managed through network.

Screen Configuration

EDIUS Screen Configuration

This section explains the overall EDIUS screen configuration as well as each window and palette.

Whole Screen Configuration

Various windows are displayed when using EDIUS, and basically you use 7 windows for editing video. You can easily edit video in dual monitor, as each window can be placed without overlapping with each other. Each window can be resized by dragging its side line or the corner edge. As the windows snap to each other, you can place windows aligned by side line or corner edge. The window layout can also be saved.

When Displaying in Dual Monitor



When Displaying in Single Monitor



- When multiple windows are placed in alignment, all the snapped windows can be resized at one time by resizing one of them. Resize operation with [Shift] on the keyboard held down resizes only the selected window. However, this function may be unable depending on the setting of Windows.

Preview Window

The following explains about 2 types of the preview windows, Player and Recorder.

Switching Between Single Mode/Dual Mode ▶ P130

Dual mode


Player appears on the left, and Recorder on the right in the dual mode.



Single mode

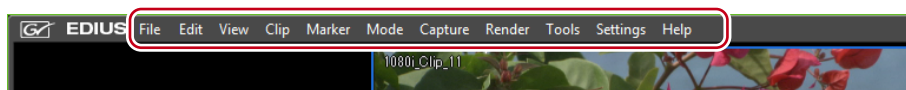
In the single mode, switch the display window by clicking [Change to Player]/[Change to Recorder].



- Click the GV icon  in the preview window to minimize the window.

Menu Bar

You can execute most of the operations from the menu bar. Click and select an item.



- Click [Help] on the menu bar, and click [User Registration] to perform user registration after installation.
- Click [Help] on the menu bar, and click [Serial number registration] to register the serial number. After registering the serial number, restart EDIUS to enable the functions.
- Perform the following procedure to refer to Help for how to use the application:
 - Click [Help] on the menu bar, and click [Help].
 - Help: [F1]
- Click [Help] on the menu bar, and click [Version Info] to refer to the version information.

Player

This window is used to playback the source clips and to capture the source from external devices.



(1)	Timecode area	Display the playback position, In point, Out point, duration and the total length of the source data. If the setting is defined incorrectly, such as the setting that Out point is set before In point, the timecode turns red. The value can be changed by clicking the timecode. Copy and paste are also available by right-clicking the timecode.
(2)	Buttons for playing a source	Used for playing clips and controlling external devices (play, fast forward, stop, etc.). Playback with Player Operation Buttons ▶ P173
(3)	Buttons for editing a source	Used for setting In and Out points, adding a clip to the timeline, capturing, or creating a subclip.

Recorder

This window is used to play the timeline or edit a clip.

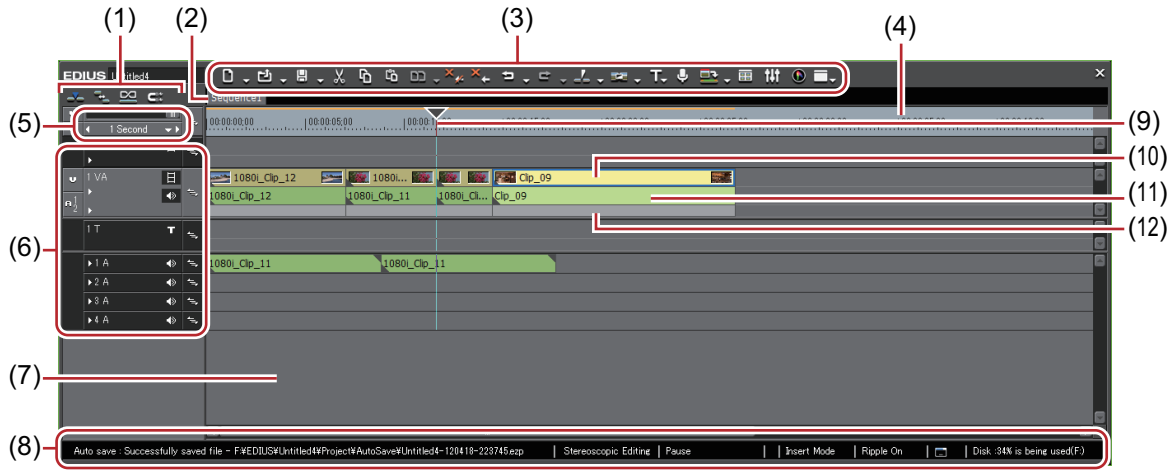


(1)	Timecode area	Display the playback position, In point, Out point, duration and the total length of the source data. If the setting is defined incorrectly, such as the setting that Out point is set before In point, the timecode turns red. The value can be changed by clicking the timecode. Copy and paste are also available by right-clicking the timecode.
(2)	Buttons for playing the timeline	Used for controlling clips placed on the timeline (playback, fast forward, stop, etc.). Playing Back with Recorder Operation Buttons ▶ P287
(3)	Buttons for editing the timeline	Used for setting In and Out points, jumping to the edit point (the border of clips), or exporting to file or tape.

Timeline Window

This window is used to place the clips on the track or apply effects.

Clips are placed from left to right of the timeline in time series.



(1)	Mode bar	These buttons are used to switch the editing modes. The button types and sort order can be customized. <i>Switching the Editing Mode</i> ▶ P219 <i>Operation Button Settings</i> ▶ P119
(2)	Sequence tab	Tab for using clips on the timeline as a set
(3)	Operation buttons	These buttons are used for editing operations. The button types and sort order can be customized. <i>Operation Button Settings</i> ▶ P119
(4)	Time scale	Indicate the scale for the time on the timeline.
(5)	Time scale settings	Change the display unit for time scale. <i>Time Scale Settings</i> ▶ P216
(6)	Track header	Configure various settings including muting and locking each track, mapping channels, synchronizing channels. It can be used to add and delete tracks. <i>Track Header</i> ▶ P211
(7)	Timeline	Place clips in this area. It can also be used to add and delete tracks. <i>Placing Clips</i> ▶ P225 <i>Operating Tracks</i> ▶ P214
(8)	Status bar	Display the number of imported files when a project is opened/number of all files, the number of offline clips, clip playback status, editing mode, and background job status, etc. Move the cursor over the mode bar or timeline operation buttons to display the button names on lower left.
(9)	Timeline cursor	Indicate the playback position or edit position of the timeline.
(10)	Video part	Indicate the presence of video in the clip.
(11)	Audio part	Indicate the presence of audio in the clip. Expand it to display a rubber band to adjust the volume or pan. <i>Adjusting the Volume and Pan of a Clip</i> ▶ P399
(12)	Mixer area	Configure keying and other settings.

Bin Window

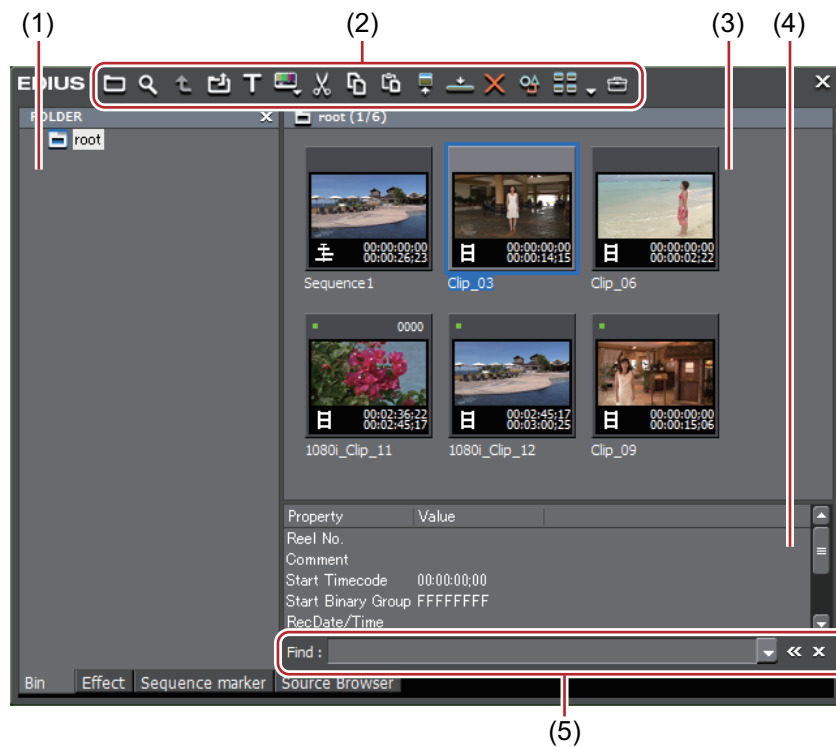
This window is used to manage clips imported with EDIUS.

You can switch the show/hide setting for the folder view. You can switch the display method such as thumbnail, detailed information, and other information for the clip view.

Management, display of the list, and search for captured clip are available.

Clip information (such as aspect ratio, frame rate, poster frame) can be checked or modified.

Managing Clips ▶ P200



(1)	Folder view	Display folders in tree structure. <i>Operations in the Folder View ▶ P203</i>
(2)	Operation buttons	Perform various operations.
(3)	Clip view	Display clips in the folder as a list. <i>Operations in the Clip View ▶ P200</i>
(4)	Metadata view	Display the clip metadata in a list.
(5)	Simple search bar	Press [F3] on the keyboard to display this bar. Clips in this folder can be searched.



- The upper and lower parts of the bin window are extended, by every double-click on a position of the title bar (without any button) in the bin window.

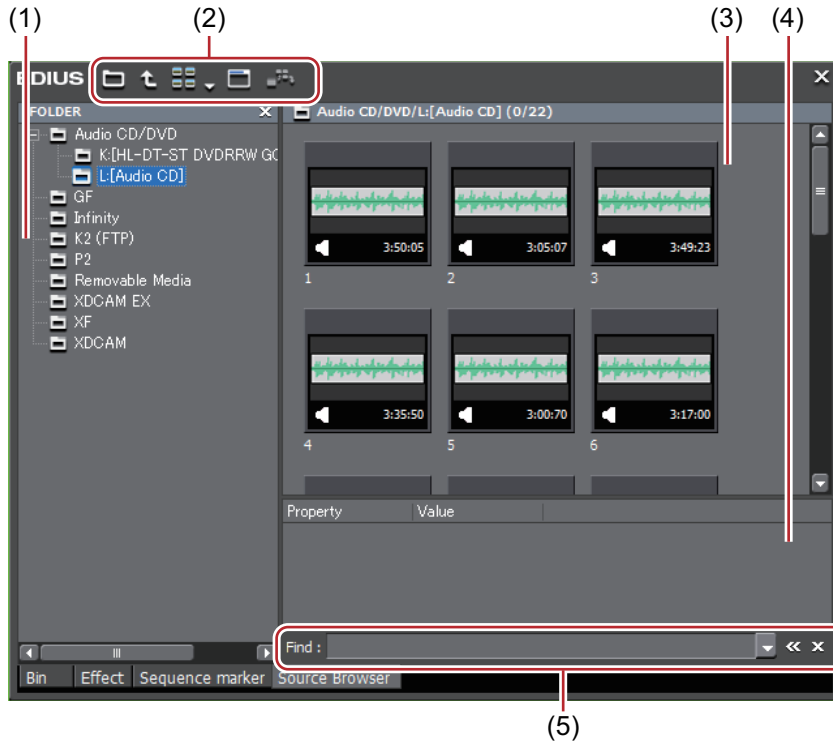


Source Browser Window


This window is used to check source files in external devices such as CD/DVD and AVCHD cameras to which file-based video or audio is recorded.

You can switch the show/hide setting for the folder view. You can switch the display method such as thumbnail, detailed information, and other information for the clip view.

Display of the list, transfer to the bin, and search for the sources in external devices are available.



(1)	Folder view	Display devices and drives connected to the PC in a tree. When the media is inserted into the device or drive, the media name is displayed in the tree. Click the media name to display the stored files in the clip view. To browse the local disk, you can register the folder to display in the folder view through System Settings in advance. <i>[Importer/Exporter] ▶ P78</i>
(2)	Operation buttons	Perform various operations. The button types and operations differ from device to device. <i>Importing Files from Source Browser ▶ P158</i>
(3)	Clip view	Displays a list of source files in the external devices.
(4)	Metadata view	Display a list of source file metadata.
(5)	Simple search bar	Press [F3] on the keyboard to display this bar. Search source files in the external devices.

- 
 The upper and lower parts of the source browser window are extended, by every double-click on a position of the title bar (without any button) in the source browser window.

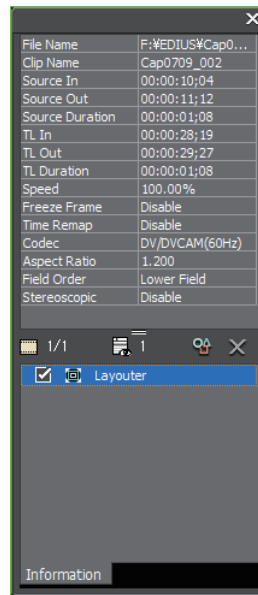


Palette

There are 3 types of palettes: Information palette, Effect palette, and Marker palette.

[Information] Palette

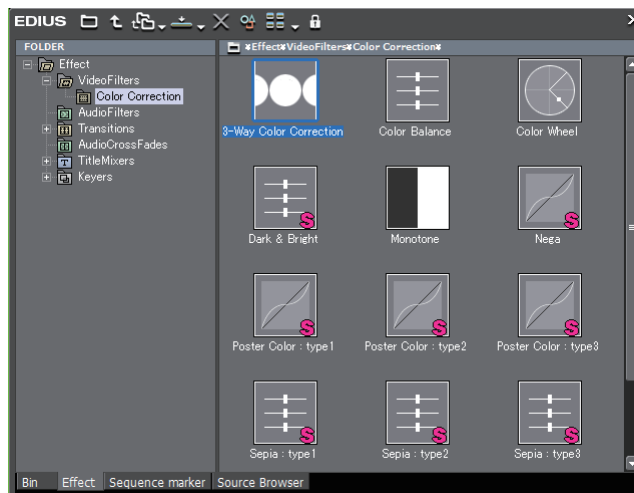
Showing/Hiding [Information] Palette ▶ P353



- Display the information of the clip placed on the timeline.
- Display information on the set effects and set whether to apply effects or the order.
- Adjust the set effects.
- Configure the video layout if a clip has a video part.

[Effect] Palette

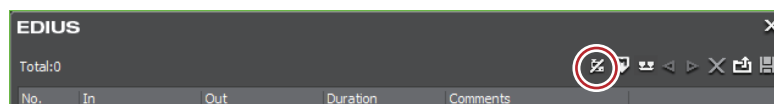
Showing/Hiding [Effect] Palette ▶ P319



- Video or audio effects to add to clips are registered.
- Register or delete customized effect.

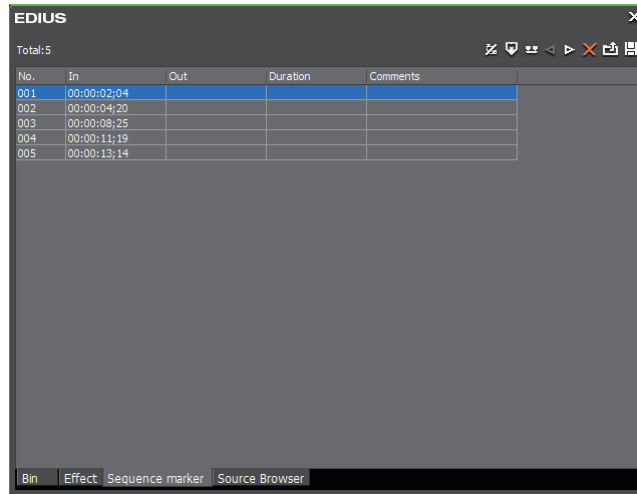
[Marker] Palette

Manage the sequence markers appended to the timeline and clip markers appended to a clip. The [Sequence Marker] and [Clip Marker] lists can be switched by clicking the button.



[Sequence Marker] List

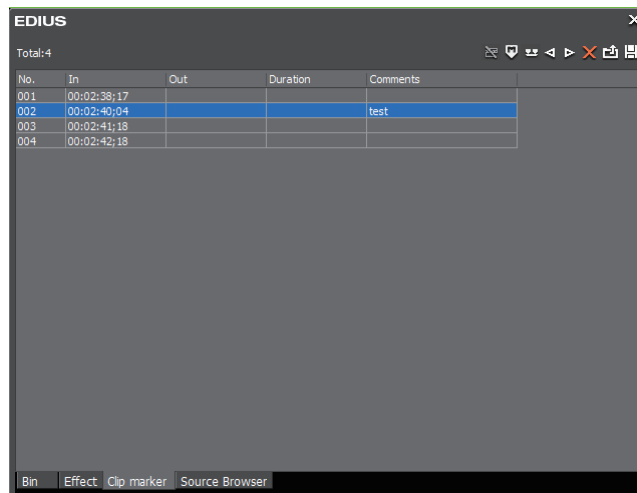
Displaying the [Sequence Marker] List ▶ P282



- Set and delete a sequence marker.
- Jump to a desired sequence marker or add comments.
- Import or export a sequence marker list.

[Clip Marker] List

Displaying the [Clip Marker] List ▶ P276



- Set and delete a clip marker.
- Jump to a desired clip marker or add comments.
- Import or export a clip marker list.



- Follow the step below to show/hide 3 palettes together.
 - Click [View] on the menu bar, and click [Palette] → [Show All] ([Hide All]).
 - Displaying all: [H]

• You can combine 3 palettes into 1 palette. All palettes can be combined to the bin window or the source browser window.

Combining Bin Window/Source Browser Window with a Palette ▶ P117

- Every double-click on the title bar of a palette expands and contracts the palette vertically.



Entry of Values

Entering Values Using Keyboard and Mouse

This section explains the setting operation for the values in each settings dialog box.

Direct Input of Value

You can directly enter values with [0] to [9] on the keyboard.

1 Select the input field and enter the value on the keyboard.

You can enter the value in the HHMMSSFF format (H = hour; M = minute; S = second; and F = frame). For example, enter "43S21F" or "4321" in only numerics for 43 seconds and 21 frames. Enter "10M" or "100000" for 10 minutes. If entering "3H2M1S0F", the value will be "03:02:01:00".

2 Press [Enter] on the keyboard.

Offset Input

You can enter variation values in the input field.

1 Select the input field and enter the variation value from the current set value.

2 Press [Enter] on the keyboard.

Enter "-" before the value to decrease the set value.

Enter "+" before the value to increase the set value.



- Offset input is only available for entering the timecode.

Setting with Arrow Keys

You can enter values with keys on the keyboard.

1 Select the input field and change the value with arrow keys on the keyboard (↑, ↓, ←, →).

2 Press [Enter] on the keyboard.

Entering with Mouse Wheel

The set values can be changed with the mouse wheel. The mouse wheel is in the center of the mouse.

1 Move the mouse cursor near the input field.

The shape of the mouse cursor changes.

2 Click the value and rotate the mouse wheel.



Alternative

- Hold the right button of the mouse in the settings input field, and drag the mouse upward to increase the value. The value continues to increase while the mouse is dragged. The value increases accordingly, when the mouse is moved away from the initial drag position.
- In the same way, hold the right button of the mouse and drag downward to decrease the value.
- Hold the left button of the mouse and drag upward to increase the value by the movement of the mouse. In the same way, drag downward to reduce the value. In this case, the value does not change unless you move the mouse.

CHAPTER 3

Project Settings

When working with EDIUS, the largest work unit is the project file. A project file contains various information including edit histories and video formats. This chapter explains the operations and settings of the project.

Project Operations

Creating New Project

This section explains how to create a new project when or after EDIUS starts.

For EDIUS Elite or EDIUS Pro, to create a project, set a project format according to the format for the export destination, and register it as a project preset.

For EDIUS Neo or EDIUS Express, a project preset is already registered. Select a project preset according to the format for the export destination.

Creating New Project Presets at Initial Start-up of EDIUS Elite/EDIUS Pro

When you start up EDIUS for the first time after installation, configure the format of the project to create, and register it as a preset.

1 Click [New Project] in the [Start Project] dialog box.

The [Create Project Presets] wizard will start up.

2 Check more than one item for [Size], [Frame Rate], [Bit] (in this order), and click [Next].

Configure the video size and frame rate, and video quantization for the project format to create with EDIUS. Multiple check boxes can be selected for each item.



- Set a video quantization bitrate to 10 bits to preserve the 10-bit precision for editing. However, it may turn out to be the 8-bit precision depending on the effects you use. The formats that can be imported with 10-bit precision are Grass Valley HQX AVI, uncompressed AVI, AVC-Intra, QuickTime and Grass Valley HQX MOV. The formats that can be exported with 10-bit precision are Grass Valley HQX AVI, AVC-Intra and uncompressed (v210) AVI.

3 Check the content.

A list of formats corresponding to the setting configured in step 2 is displayed.

A preset of the checked formats will be created. Uncheck the formats you do not use.



- You can click [Back] to redo the settings.

4 Click [Completed].

The [Project Settings] (Simple Settings) dialog box appears, showing the created project preset as an icon in [Presets List].

[Project Settings] (Simple Settings) Dialog Box ▶ P38



Note

- To change the project preset you created, perform through [Application] in [System Settings] → [Project Preset]. You can create additional project presets in the system settings. Note that changes will not be reflected to presets if you check [Customize] in the screen shown in step 4 and change the settings.

[Project Preset] ▶ P77

Creating New Project at Start-up

When EDIUS starts up, select a project preset and create a new project.

1 Click [New Project] in the [Start Project] dialog box.

The [Project Settings] (Simple Settings) dialog box appears.

[Project Settings] (Simple Settings) Dialog Box ▶ P38



- The [Create Project Presets] wizard will start up.

Creating New Project Presets at Initial Start-up of EDIUS Elite/EDIUS Pro ▶ P37

2 Enter a project name in [Project name] of [Project file].

3 Select a project preset, and click [OK].



- Click [Cancel] to return to the [Start Project] dialog box.

[Project Settings] (Simple Settings) Dialog Box

[Project file]	[Project name] Click the input field to enter a project name. [Folder] Set the destination to save projects. To change the destination, click [...] and select a folder. Check [Create folder with project name] to create a folder with the project name in the destination folder.
[Presets List]	Display registered project presets in a list. Double-click the icon to open a new project file with the selected project preset setting.
[Customize]	Check this item to change the detailed project preset settings (rendering format, and the number of tracks and so on) and create a new project file. The settings of the existing project preset will not be changed. Changing Project Settings Temporarily to Create a New Project ▶ P38 If you use the restricted user profile, the detailed settings of a project preset cannot be changed.
[Description]	Display the settings of the project preset selected in [Presets List].

Changing Project Settings Temporarily to Create a New Project

When EDIUS starts up, you can temporarily change the detailed project preset settings (rendering format and the number of tracks and so on) and create a new project.



Note

- With the operation described in this section, the setting changes will not be reflected to the original project preset. To create project presets after initial start-up or change project presets, perform through [Application] in [System Settings] → [Project Preset].

[Project Preset] ▶ P77

- 1 Enter a project file name in [Project name] of [Project file] in the [Project Settings] (Simple Settings) dialog box.

[Project Settings] (Simple Settings) Dialog Box ▶ P38

- 2 Select a project preset.


- 3 Check [Customize], and click [OK].

The [Project Settings] (Detailed Settings) dialog box appears.

[Project Settings] (Detailed Settings) Dialog Box ▶ P39

- 4 Configure a project, and click [OK].

[Project Settings] (Detailed Settings) Dialog Box

[Video Preset]	Display a list of commonly used video formats. From this list, select a video format that suits the export environment.
[Audio Preset]	Display a list of commonly used audio formats. From this list, select an audio format that suits the export environment.
 (Expand button)	Click this button for detailed settings.
[Advanced]	<p>Click the expand button to customize detailed settings based on the format selected in [Video Preset] and [Audio Preset]. You cannot change the items displayed in gray.</p> <p>[Frame Size] Select a frame size from the list. Select [Custom] to enter a setting value in pixel. (The width must be a multiple number of 4. The maximum value is 4096×2160 pixel.)</p> <p>[Aspect Ratio] Select an aspect ratio from the list.</p> <p>[Frame Rate] Select a frame rate from the list.</p> <p>[Field Order] For interlace, a field order can be selected.</p> <p>[Video Channel] Select the channel to be exported (color channel/alpha channel) from the list. Select [YCbCr] to export only color channel. Select [YCbCr + Alpha] to export both color channel and alpha channel.</p> <p>[Video Quantization Bit Rate] Select a video quantization bitrate from the list.</p> <p>[Pulldown Type] This setting is only available for a frame rate of 24p or 23.98p. Select a convert format to convert a 23.98p video to a 59.94i or 59.94p video signal. [Pulldown(2-3-2-3)] enables a smooth playback, but is not appropriate for re-editing. Select this item for the final export. [Advanced pulldown(2-3-3-2)] does not provide a smooth playback. Select this item to create a temporary file to edit.</p> <p>[Stereoscopic Editing] For 3D editing, select [Enable]. The stereoscopic edit mode is set. <i>Stereoscopic Edit Workflow</i> ▶ P314</p> <p>[Sampling Rate] Select an audio sampling rate from the list.</p> <p>[Audio channel] Select the number of audio channels from the list.</p> <p>[Audio Quantization Bit Rate] Select an audio quantization bitrate from the list.</p>

[Setup]	<p>[Render format] Select the default codec to be used for rendering and file export during editing. RGB, UYVY, YUY2, RGBA and v210 are uncompressed AVI. For some codec, the rendering quality can be configured by clicking [Detail]. <i>Detailed Settings for Codec</i> ► P40</p> <p>[Overscan Size] Enter the ratio when you use overscan. The value range is between “0” and “20”. If you do not use overscan, enter “0”.</p> <p>[Audio reference level] Set the audio reference level. If you switch the display of the [Audio Mixer] dialog box to a VU meter, a scale with the specified audio reference level at “0” is displayed.</p> <p>[Resampling method] Select a resampling method when transforming video with the layouter. <i>Video Layout</i> ► P254</p>
[Sequence setup (Default)]	<p>Default settings for creating a sequence.</p> <p>[TC preset] Enter the start timecode of the timeline.</p> <p>[TC Mode] When NTSC has been selected for the project setting, select either drop frame or non drop frame timecode display.</p> <p>[Total length] Set the length of the timeline by entering a number when the final total length is fixed. When the project exceeds this length, the color of the timeline section that is over the limit change.</p>
[Track (Default)]	<p>Default settings of a number of tracks and a channel map for creating new projects or sequence.</p> <p>[V Tracks]/[VA Tracks]/[T Tracks]/[A Tracks] Set the number of tracks in which you place clips. You can add or delete any tracks after opening a project.</p> <p>[Channel map] In the [Audio Channel Map] dialog box, configure the audio output channel of each track. <i>Configuring Audio Channel Map</i> ► P43</p>

Entry of Values ► P33

- Formats that can be exported with alpha channel retained when [Video Channel] is set to [YCbCr + Alpha] are Grass Valley HQ AVI, Grass Valley HQX AVI and uncompressed (RGBA) AVI.

**Note**

- If a correct rendering format is not selected for the project settings, the item in [Render format] is displayed in red and the setting cannot be completed.

Detailed Settings for Codec

You can configure the rendering quality for each codec in the [Project Settings] (Detailed Settings) dialog box.

[Project Settings] (Detailed Settings) Dialog Box ► P39

Grass Valley HQ AVI/Grass Valley HQX AVI/HQ MXF/HQX MXF

For the details of the items, see the [Settings - Grass Valley HQ]/[Settings - Grass Valley HQX] dialog box of [Preset Wizard], by clicking [Hardware] in [System Settings] → [Device Preset]. Click [Save as default] to save the current settings as defaults.

[Settings - Grass Valley HQ]/[Settings - Grass Valley HQX] Dialog Box ► P108

MPEG2 Program Stream

[Basic Settings] tab

[Segment Encode]	Check this item to export a clip of a raw source without re-encoding. Output speed is fast.
[Size]	Select an image quality.
[Quality/Speed]	Select quality from the list. The higher the quality, the more time it takes to be encoded.
[Bit Rate]	Select a bitrate type. [CBR] sets a fixed transfer rate, allocating a fixed number of bits during the encoding process. Select a bitrate from the [Average(bps)] list. You can also enter a value directly. [VBR] sets a variable transfer rate, altering the number of assigned bits according to the complexity of the movement or image quality. Compared with [CBR], the media volume can be used more efficiently, and this enables more consistent image quality overall. Select a bitrate from the [Average(bps)] and [Maximum(bps)] lists. You can also enter a value directly.

[Extended Settings] tab

[Field Order]	For interlace, a field order can be selected.
[Chroma Format]	Select a YUV pixel format from the list.
[Profile & Level]	Select a profile & level. If [Chroma Format] is [4:2:0] and [4:2:2], the profile will be set to Main Profile and 422Profile, respectively. The level for SD image quality will be Main Level, and the level for HD image quality will be High Level. The profile & level changes according to the format selected in [Chroma Format].
[GOP Structure]	For MPEG, a certain number of frames is considered as a group, and operations such as compression/enlargement and cut editing are performed on a GOP basis. A GOP comprises "I frame", "P frame" and "B frame". The I frame allows images to be reproduced independently, the P frame is for recording and reproducing only the differences with the preceding image, and the B frame reproduces images from the differences in the preceding and following images. Select I, P and B frame patterns of the GOP from the list. Normally, select [IBBP]. [I-Frame Only] is comprised of only I-pictures. Editing is made easier, but the amount of data increases in size.
[Picture count]	Set the number of frames included in a group.
[Closed GOP]	Check this item to complete information within each GOP. Although the amount of data increases, the video can be re-edited using software that supports GOP-based editing. Normally, leave this item unchecked.

MPEG2 for GF I frame only (100 Mbps)/MPEG2 for GF Long GOP (50 Mbps)/MPEG2 for XDCAM HD422/MPEG2 for XDCAM HD LP/MPEG2 for XDCAM HD SP/MPEG2 for XDCAM HD HQ

Items that can be configured are the same as [MPEG2 Program Stream].

MPEG2 Program Stream ▶ P41

MPEG2 MXF

[Segment Encode]	Check this item to export a clip of a raw source without re-encoding. This increases the output speed.
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[Bit Rate]	Select a bitrate type. [CBR] sets a fixed transfer rate, allocating a fixed number of bits during the encoding process. Select a bitrate from the [Average] list. You can also enter a value directly. [VBR] sets a variable transfer rate, altering the number of assigned bits according to the complexity of the movement or image quality. Compared with [CBR], the media volume can be used more efficiently, and this enables more consistent image quality overall. Select a bitrate from the [Average] and [Max] lists. You can also enter a value directly.
[Quality/Speed]	Select quality from the list. The higher the quality, the more time it takes to be encoded.
[Field Order]	For interlace, a field order can be selected.
[GOP Structure]	For MPEG, a certain number of frames is considered as a group, and operations such as compression/enlargement and cut editing are performed on a GOP basis. A GOP comprises "I frame", "P frame" and "B frame"; the I frame allows images to be reproduced independently, the P frame is for recording and reproducing only the differences with the preceding image, and the B frame reproduces images from the differences in the preceding and following images. Select I, P and B frame patterns of the GOP from the list. Normally, select [IBBP]. [I-Frame Only] is comprised of only I-pictures. Editing is made easier, but the amount of data increases in size.
[Picture count]	Set the number of frames included in a group.
[Closed GOP]	Check this item to complete information within each GOP. Although the amount of data increases, the video can be re-edited using software that supports GOP-based editing. Normally, leave this item unchecked.
[Chroma Format]	Select a YUV pixel format from the list.
[Profile & Level]	Select a profile & level. If [Chroma Format] is [4:2:0] and [4:2:2], the profile will be set to Main Profile and 422Profile, respectively. The level for SD image quality will be Main Level, and the level for HD image quality will be High Level. The profile & level changes according to the format selected in [Chroma Format].

JPEG2000 MXF

[Bit Rate]	Select a bitrate from the list.
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HDV

[Segment Encode]	Check this item to export a clip of a raw source without re-encoding. Output speed is fast. If the frame rate of the export format is 23.98p, segment encode is not available. [Quality/Speed] Select the quality of the part to be re-encoded from the list. The higher the quality, the more time it takes to be encoded.
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DV AVI

Check [Use MSDV codec] to export the content to an MSDV codec AVI.

Creating a New Project after Start-up

You can create a new project after starting up EDIUS.

1 Click the [Create New Sequence] list button on the timeline.



For EDIUS Express, after clicking [New Project] on the timeline, proceed to step 3.

2 Click [New Project].

If you create a new project during the editing operation, a confirmation dialog box appears to ask if you want to save the current project file.

The [Project Settings] (Simple Settings) dialog box appears.

[Project Settings] (Simple Settings) Dialog Box ▶ P38

Alternative

- Click [File] on the menu bar, and click [New] → [Project].
- Creating a new project after start-up: [Ctrl] + [N]

- When creating a new project, the clips in the bin are initialized (all deleted).

3 Enter a project name in [Project name] of [Project file].

4 Select a project preset, and click [OK].

- Check [Customize] to change the detailed project preset settings (rendering format and the number of tracks and so on) and create a new project.

[Project Settings] (Detailed Settings) Dialog Box ▶ P39

Configuring Audio Output Channel Map

Select the final output channel for the output from the track. The settings can be registered as an audio channel map preset.

Configuring Audio Channel Map

Select the final output channel for the output from the track.

1 Click [Channel map] in the [Project Settings] (Detailed Settings) dialog box.

[Project Settings] (Detailed Settings) Dialog Box ▶ P39

The [Audio Channel Map] dialog box appears.

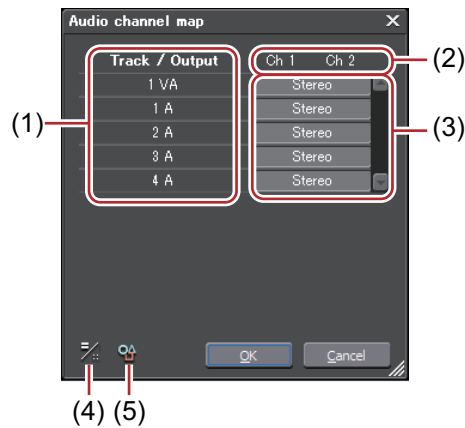
[Audio Channel Map] Dialog Box ▶ P44

2 Click the point where the track and the channel to output intersect to configure the audio channel map.

Every click switches between [Stereo], [Mono], and [No Output folder].

For stereo output, use a combination of an odd number channel and an even number channel and set this option to [Stereo]. If you output in monaural, select [Mono], and if you do not output anything, select [No Output folder]. If the setting is invalid, “—” is displayed.

[Audio Channel Map] Dialog Box



(1)	Tracks	The number or type of track to be displayed differs depending on the [Track (Default)] settings in the project settings.
(2)	Output channels	The number of channels to be displayed differs depending on the [Audio Preset] or [Audio Channels] settings in the project settings.
(3)	Audio channel map settings	Select the output channel for the output from the track. Every click switches between [Stereo], [Mono], and [No Output folder].
(4)	[Change Display Style]	Click this button to display the [Audio Channel Map] dialog box of EDIUS 5.
(5)	[Preset]	Register the settings as a preset. <i>Creating Audio Channel Map Preset ▶ P44</i>



- Use the track header to place an audio channel of the source clip to a desired track.
Connecting/Disconnecting the Source Channel ▶ P225



Note

- To export a project with 8ch audio to Dolby Digital (AC-3), you can select the format for 5.1 channel. When you select formats for multiple channels to output as in the case mentioned, set the export destination of each track with the audio channel map in advance. If the export destination is not specified, the sound is muted. To play the sound in 5.1 channel surround, the sound is required to be created to be suitable for surround play. Note that the surround effect is not applied automatically only by setting the audio channel map and selecting 5.1 channel for the export format.

Creating Audio Channel Map Preset

You can register frequently used audio channel map settings as presets.

- Configure the audio channel map in the [Audio Channel Map] dialog box.
[Audio Channel Map] Dialog Box ▶ P44
- Click [Preset], and click [Save].
- Enter a preset name, and click [OK].



- You can overwrite an existing audio channel map preset with the current settings. In step 2, click [Preset], and click [Update] → [Preset Name]. Confirm the preset name, and click [OK].
- To display a list of the audio channel map presets, click [Preset] in the [Audio Channel Map] dialog box, and click [Properties].

Switching Audio Channel Map Presets

Switch the audio channel map presets to use.

1 Click [Preset] in the [Audio Channel Map] dialog box, and click [Load].

[Audio Channel Map] Dialog Box ► P44

A list of the audio channel map presets is displayed.

2 Select a preset, and click [OK].

Deleting Audio Channel Map Preset

You can delete audio channel map presets you created.

1 Click [Preset] in the [Audio Channel Map] dialog box, and click [Properties].

[Audio Channel Map] Dialog Box ► P44

A list of the audio channel map presets is displayed.

2 Select a preset, and click [Delete].

3 Click [Yes].

Importing Audio Channel Map Preset (Import)

Import an audio channel map preset.

1 Click [Preset] in the [Audio Channel Map] dialog box, and click [Properties].

[Audio Channel Map] Dialog Box ► P44

A list of the audio channel map presets is displayed.

2 Click [Import].

3 Select a file, and click [Open].

Exporting Audio Channel Map Preset (Export)

Export an audio channel map preset you created.

1 Click [Preset] in the [Audio Channel Map] dialog box, and click [Properties].

[Audio Channel Map] Dialog Box ► P44

A list of the audio channel map presets is displayed.

2 Select a preset, and click [Export].

The [Save As] dialog box appears.

3 Set a file name and save destination, and click [Save].

Changing Project Settings

This section explains how to change the project settings during the editing operation.

Switching Project Settings

You can change project settings while editing by switching project presets.



- To create a new project preset or change the existing project preset settings, use [Application] in [System Settings] → [Project Preset].

Creating New Project Presets ► P47

1 Click the [Save Project] list button on the timeline.



2 Click [Project Settings].



Alternative

- Click [Settings] on the menu bar, and click [Project Settings].

- 3 Select a project preset, and click [OK].

Changing Project Settings

Change the project settings by modifying the detailed settings of an existing project preset.

Note

- The settings of the original preset will not be changed if you change the project settings of a project you are currently editing.
To create a new project preset or change the existing project preset settings, use [Application] in [System Settings] → [Project Preset].

Creating New Project Presets ▶ P47

- When changing the settings for [TC preset], [TC Mode], [Total Length], and [Channel map] in the project settings while editing a project, the change is not reflected in the created sequence. Change the settings of the created sequence in the [Sequence settings] dialog box for each sequence.

Sequence Settings ▶ P46

- 1 Click the [Save Project] list button on the timeline.



- 2 Click [Project Settings].

Alternative

- Click [Settings] on the menu bar, and click [Project Settings].

- 3 Select a project preset, and click [Change current setting].

The [Project Settings] (Detailed Settings) dialog box appears.

[Project Settings] (Detailed Settings) Dialog Box ▶ P39

- 4 Change the settings, and click [OK].

Sequence Settings

You can change the settings of the sequence settings in the [Sequence settings] dialog box.

- 1 Click the [Save Project] list button on the timeline.



- 2 Click [Sequence settings].

The [Sequence settings] dialog box appears.

[Sequence settings] Dialog Box ▶ P47

Alternative

- Click [Settings] on the menu bar, and click [Sequence settings].
- Right-click the sequence tab, and click [Sequence Settings].
- Right-click a sequence clip in the bin, and click [Sequence Settings].

- 3 Change the settings, and click [OK].

[Sequence settings] Dialog Box

[Sequence name]	Enter the name of the sequence.
[TC preset]	Set the start timecode of the timeline.
[TC Mode]	When NTSC has been selected for the project setting, select either drop frame or non drop frame timecode display.
[Total Length]	Set the total length of the timeline of sequence by directly entering the value. When the timeline exceeds this length, the color of the timeline section over the limit changes.
[Channel map]	Set audio output channel for each track. <i>Configuring Audio Channel Map</i> ▶ P43

Entry of Values ▶ P33

Creating New Project Presets

Creating a Project Preset

1 Click [Settings] on the menu bar, and click [System Settings].

2 Click the [Application] tree, and click [Project Preset].

The [Project Preset] screen appears.

[Project Preset] Screen ▶ P47

3 Click [New Preset].

The [Project Settings] dialog box (for creating new project presets) appears.

[Project Settings] Dialog Box (for creating new project presets) ▶ P48



Note

- Clicking the [Default Icon Folder] checkbox in the [Select Icon] dialog box does not uncheck the item while default icon folder is displayed. The display returns to the default icon folder display by clicking [...] and checking the item while a different folder is displayed.

4 Set each item and click [OK].

The newly created preset is displayed as an icon in [Presets List].

[Project Preset] Screen

[Presets List]	Display registered project presets in a list. The list can be resorted by dragging the icons.
[Description]	Display the settings of the project preset selected in [Presets List].
[Preset Wizard]	Start up the [Create Project Presets] wizard so that new project presets can be easily created. <i>Simple Creation of Project Presets</i> ▶ P48
[New Preset]	Create new project presets.
[Copy]	Duplicate the selected project preset.
[Modify]	Change the settings of the selected project preset. Click this item to display the [Project Settings] dialog box (for creating new project presets). <i>[Project Settings] Dialog Box (for creating new project presets)</i> ▶ P48
[Delete]	Delete the selected project preset.

[Project Settings] Dialog Box (for creating new project presets)

[Name]	Enter the name of the project preset.
[Select Icon]	Displays the [Select Icon] dialog box to select the preset icons. To use any image you like, click [...] in the [Select Icon] dialog box, and select a file.
[Preset]	Click this item to call up existing project presets.

Setting items other than the above are the same as those for the project presets (Detailed Settings).

[Project Settings] (Detailed Settings) Dialog Box ▶ P39

Simple Creation of Project Presets

- 1 Click **[Settings]** on the menu bar, and click **[System Settings]**.
- 2 Click the **[Application]** tree, and click **[Project Preset]**.
- 3 Click **[Preset Wizard]**.
- 4 Check more than one item for **[Size]**, **[Frame Rate]**, **[Bit]** (in this order), and click **[Next]**.

Configure the video size and frame rate, and video quantization for the project format to create with EDIUS. Multiple check boxes can be selected for each item.



- Set a video quantization bitrate to 10 bits to edit with 10-bit precision retained. However, it may turn out to be the 8-bit precision depending on the effects you use. The formats that can be imported with 10-bit precision are Grass Valley HQX AVI, uncompressed AVI, AVC-Intra, QuickTime and Grass Valley HQX MOV. The formats that can be exported with 10-bit precision are Grass Valley HQX AVI, AVC-Intra and uncompressed (v210) AVI.

5 Check the details.

A list of formats corresponding to the setting configured in step 4 is displayed.

A preset of the checked formats will be created, uncheck the formats you do not use.



- You can click **[Back]** to redo the settings.

6 Click **[Done]**.

The newly created preset is displayed as an icon in **[Presets List]**.

Deleting Project Presets

Delete the created project presets.

- 1 Click **[Settings]** on the menu bar, and click **[System Settings]**.
- 2 Click the **[Application]** tree, and click **[Project Preset]**.
- 3 Select presets to be deleted in **[Presets List]**, and click **[Remove]**.



Alternative

- Right-click a preset in the project preset list, and click **[Remove]**.

4 Click **[Yes]**.



Note

- Project presets registered by default cannot be deleted.

Duplicating Project Presets

- 1 Click **[Settings]** on the menu bar, and click **[System Settings]**.
- 2 Click the **[Application]** tree, and click **[Project Preset]**.
- 3 Select presets to be deleted in **[Presets List]**, and click **[Copy]**.

Alternative

- Right-click a preset in [Presets List], and click [Copy].

Changing Project Presets

Change project preset settings.

- 1 Click [Settings] on the menu bar, and click [System Settings].
 - 2 Click the [Application] tree, and click [Project Preset].
 - 3 Select presets to be deleted in [Presets List], and click [Change].
- The [Project Settings] dialog box (for creating new project presets) appears.
[Project Settings] Dialog Box (for creating new project presets) ► P48

Alternative

- Right-click a preset in [Presets List], and click [Change].

Note

- Project presets registered by default cannot be changed.

- 4 Set each item and click [OK].



- Even when you change the project preset used in the project being edited, the settings of the project being edited are not changed. To reflect the changes, switch the setting to the project preset changed.

Switching Project Settings ► P45

Importing Project Presets (Import)

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Application] tree, and click [Project Preset].
- 3 Right-click [Presets List], and click [Import].
- 4 Select a project preset, and click [Open].

Exporting Project Presets (Export)

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Application] tree, and click [Project Preset].
- 3 Select and right-click a preset in [Presets List], and click [Export] → [All] or [Selected preset].
- 4 Specify a save destination, and click [Save].

Saving Project

A project file is saved as an ezp file. The file name of the project currently being edited is displayed in the timeline operation area.



The following explains how to save project files and about auto save/backup files.

Note

- After saving the project file, do not move or delete the source that is used for reference in the project. However, if the source is in the folder where the project file is created, the folder as a whole can be moved.

Overwrite Saving

You can save the project with the project name entered when creating the project.

- 1 Click **[Save Project]** on the timeline.



Alternative

- Click the **[Save Project]** list button, and click **[Save Project]**.
- Click **[File]** on the menu bar, and click **[Save Project]**.
- Overwrite saving a project: **[Ctrl] + [S]**

Saving in Another Name

You can save the current project file (the one being edited) with another name.

- 1 Click the **[Save Project]** list button on the timeline.



- 2 Click **[Save As]**.
- 3 In the **[Save As]** dialog box, specify a file name and save destination, and click **[Save]**.

Alternative

- Click **[Save Project]** with **[Shift]** on the keyboard held down.
- Click **[File]** on the menu bar, and click **[Save As]**.
- Saving a project in another name: **[Shift] + [Ctrl] + [S]**

Auto Save/Backup

If the auto save function is enabled, an auto save file is created at a specified interval.

A backup file is created when a project file is saved if the backup function is configured. This file is used as a backup when the project file is corrupted or the system failed during the editing operation.

To configure auto save/backup, use **[Application]** in **[User Settings]** → **[Project file]**.

[Project file] ► P92

By default, an auto save/backup file is automatically saved, with a “Project name—Year, Month, Day—Hour, Minute, Second .ezp” file name, in the project folder where the corresponding project file is saved.

- Destination of an auto save file → “Project folder”/“Project”/“AutoSave”
- Destination of a backup file → “Project folder”/“Project”/“Backup”

Note

- Copy (transfer) the auto save/back up file to the folder where the project file is originally saved and import the file, to recover the project from the auto save/back up file.
- Auto save/back up files are in the attributes of read-only and cannot be overwritten. Change the attributes of the file from Windows Explorer in advance, or save as the different file.

Opening Project File after Start-up ► P51

Saving in Another Name ► P50

Importing/Exporting Project File Edited with EDIUS

This section explains how to import project files edited with EDIUS, how to consolidate a project, and how to export to an AAF or EDL file.

Opening Project File at Start-up


Select a project to import when EDIUS starts up.

1 Double-click a project file from [Recent Project] in the [Start Project] dialog box.

In [Recent Project], previously worked project files from the latest are displayed.

Alternative

- Click [Open Project], specify a file and click [Open].
- Select a project file from the [Recent Project] list, and click [Open].

-  • If you open a project file that is currently open for editing from another PC, the project file opens as a read-only file.
- When you open a project with a large number of clips, “the number of imported files/number of all files” is displayed.

Opening Project File after Start-up

You can open a new project file after EDIUS starts up.

1 Click [Open Project] on the timeline.




A confirmation dialog box appears to ask if you want to save the current project file.

2 Select a project file to import in the [Open Project] dialog box, and click [Open].

Alternative

- Click the [Open Project] list button, and select a file from the list of recent files.
- Click [File] on the menu bar, and select a file from [Recent Project] → the recent files.
- Click [File] on the menu bar, and click [Open Project] to select a project.
- Opening project file after start-up: [Ctrl] + [O]

-  • If you edit a project file using multiple PCs over the network, while one PC can open and edit the project file, other PCs can open the same project file as a read-only file.

Importing Sequence (Sequence Import)

You can import the sequence created in other project.

1 Click the [Open Project] list button on the timeline.



2 Click [Import Sequence].

The [Import Sequence] dialog box appears.

[Import Sequence] Dialog Box ▶ P51

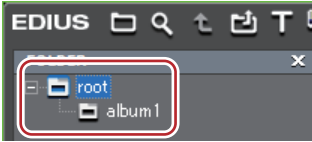
Alternative

- Click [File] on the menu bar, and click [Import Sequence].

3 Set each item and click [OK].

[Import Sequence] Dialog Box

[Import Project]	Select a recent file from the list. Click [Browse] to select a file using the [Open] dialog box. When you select a project file, detailed information including the project names and updated date. The information is displayed in red when the frame size or the aspect ratio differs.
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<p>[Import Bin]</p>	<p>Check this item to merge the bin contents. To [Folder name], enter a folder name to manage the imported bin clips. The folder will be created under the [root] folder in the bin. When imported with the folder name “album1”, the following be displayed.</p>  <p>Uncheck this item to import only the sequence.</p>
<p>[Copy Files]</p>	<p>[Copy clips in project folder] Copy the files in the source project folder.</p> <p>[Copy rendered files] Copy the rendered files.</p> <p>[Folder name] Enter a folder name to manage the copied files. The folder is created under the project folder.</p>

 **Note**

- You cannot copy files if the project folder is same as the source.
- If the frame rates are different, the merge process fails.
- If you merge projects with different project settings, the original project and video may be changed due to the differences of the frame size, aspect ratio, and overscan size. In addition, the rendered files cannot be copied.

Consolidating Project (Consolidate Project)

You can remove unnecessary clips from the project folder, and extract a portion to use.

1 Click the [Save Project] list button on the timeline.



2 Click [Consolidate Project].

The [Consolidate Project] dialog box appears.


[Consolidate Project] Dialog Box ▶ P52

 **Alternative**

- Click [File] on the menu bar, and click [Consolidate Project].

3 Set each item and click [OK].

When you delete unnecessary files, a confirmation message is displayed, and click [Yes].

-  • When a message indicating there is not enough disc space for consolidating is displayed, change the destination.

[Consolidate Project] Dialog Box

<p>[Project File Location]</p>	<p>[Current Project Location] Overwrite and save the current project.</p> <p>[Save Project to Folder] Specify a folder to save the project.</p> <p>[Drive Space]/[Required Space] Display the available disc space of the selected drive and the whole file size to be created (copied) by consolidating. They are displayed in red when the required space is larger than the available disc space.</p>
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[Settings]	<p>Select the operation to be performed at execution of consolidation, and select [Trim margin] or options as required. Select execution options from the following.</p> <p>[Cleanup] Select this item to delete unnecessary files in the project. Release clips that are registered to the bin but not used in the timeline and delete them from the hard disk.</p> <p>[Backup] Select this item to create a backup of the portion used in the project. You need to specify a trim margin. Only the clip portion used in the timeline is saved as a separate file, and all the clips used in the project is copied to the project folder. However, if the clip used in the timeline is registered, the entire file is copied.</p> <p>[Backup(no trimming)] Select this item to back up the entire project. Copy all the clips used in the project to the project folder.</p> <p>[Backup Cleanup] Perform an operation of both [Cleanup] and [Backup] together. You need to specify a trim margin.</p> <p>[Backup Cleanup(no trimming)] Perform an operation of both [Cleanup] and [Backup(no trimming)] together.</p> <p>[Custom] Configure the consolidation settings manually.</p> <ul style="list-style-type: none"> • [Remove unused clips in Timeline] Release the clips not used in the timeline from the bin. • [Leave only areas used in Timeline] Save the areas used in the timeline as another file, and then switch the file in the timeline with the new file. You need to specify a trim margin. The new files are saved in the created folder in the project folder. • [Copy used files to Project Folder] Copy all the clips used in the project to the project folder. • [Delete unused files in Project] Delete the unnecessary files from the project folder when consolidating. You can set this option only when any of the other optional items is selected.
[Proxy clip]	If any proxy clip is used, select the data type to be consolidated from the list.
[Output log]	Check this item to export a log file containing the result of consolidation. Click [Browse] to specify a destination and a file name.



- If you select a back up option and if there is any clip that cannot be copied, a confirmation message is displayed to ask if you want to continue the process before consolidation.
- If you select a cut option and if there is any clip that cannot be copied, a confirmation message is displayed to ask if you want to continue the process before consolidation.



Note

- Even if an option to delete unnecessary files is selected, some files may not be deleted due to the access right to the folder or file. In that case, no message appears. Check the user authorization when logging in.
- If an option to delete unnecessary files is selected, the deleted files cannot be restored after consolidation.
- The name of the copied file is changed.

Exporting AAF Files (AAF Export)

You can export a project file that you edited with EDIUS as an AAF file.



Note

- Only active sequences will be exported.
- The following information will not be exported.
 - Tracks with no clip

- Audio tracks with no channel map setting
- Title track
- Tracks with mute setting
- All effects (As for the pan and volume settings, source files that reflect their settings will be exported.)
- Transition/cross fade sections will be exported as clips.
- You cannot add an In point side margin to a clip that is positioned at the top of the timeline.
- You cannot specify network drives as export destination. However, you can mount network drives to use as export destination.
- When you select an exporter which does not support the export of the timecode, the file is not exported properly.
- Clips that are grouped, share a same clip name, and reference the same source are exported as a grouped clips.

1 Click the **[Save Project]** list button on the timeline.



2 Click **[Export Project]** → **[AAF]**.

The [AAF Export Detail Settings] dialog box appears.

[Project Exporter (AAF)] Dialog Box ▶ P54

Alternative

- Click [File] on the menu bar, and click [Export Project] → [AAF].

3 In the **[Project Exporter (AAF)]** dialog box, specify a file name and save destination.

4 Select a preset, and click **[Save]**.

The export of the AAF file is started.

If you want to check the preset settings or change export settings, click [Detail].

The [AAF Export Detail Settings] dialog box appears.

[AAF Export Detail Settings] Dialog Box ▶ P55

[Project Exporter (AAF)] Dialog Box

[Preset]	<p>[Type : 1] The audio clip information is written in an AAF file, and the source that the audio clip is referring to is exported as an AIFF file. Although the video information is not written in an AAF file, the video corresponding to the range that is exported to an AAF file is exported as an MPEG-1 file. Select type 1 when you import the AAF file with audio editing software.</p> <p>[Type : 2] The video clip information is written in an AAF file, and the source that the video clip is referring to is not copied or exported. The audio information of the audio corresponding to the range that is exported to an AAF file is exported as an AIFF file, and the information is written in an AAF file as a single clip. Select type 2 when you import the AAF file with composition software.</p> <p>[Type : 3] The information of the video and audio clips is written in an AAF file by frame unit. The source that the clips are referring to is not copied or exported.</p>
[Export between In and Out]	Check this item to export only between In and Out points of the timeline.
[Detail]	The [AAF Export Detail Settings] dialog box appears. [AAF Export Detail Settings] Dialog Box ▶ P55

Note

- If you export a project using [Type : 1] in [Preset], import the video manually.
- If you use ProTools 7.4 or later to import the file exported using [Type : 1] in [Preset], you must change [File path] to [RFC2396] in the [AAF Export Detail Settings] dialog box.

[AAF Export Detail Settings] Dialog Box ▶ P55

[AAF Export Detail Settings] Dialog Box

[File path]	Select [RFC1738], [RFC2396], or [Unicode] to specify the description method for the source file path to which the clip refers.
[Video Clip]	<p>Specify how video clips will be handled.</p> <p>[Output AAF] Check this item to add video clip information to AAF files.</p> <p>[Clips]</p> <ul style="list-style-type: none"> • [Copy clips] Copy (or export) the source used for the clips so that the copied source will be referenced. • [Compress and copy a clip] Handle the video clips of the timeline as one clip. The clip and file names of the first clip with the smallest track number will be used as the clip and file names of the exported files. • [Use original clips] Reference the original source directly without copying.
[Audio clip]	<p>Specify how audio clips will be handled.</p> <p>[Output AAF] Check this item to add video clip information to AAF files.</p> <p>[Clips]</p> <ul style="list-style-type: none"> • [Copy clips] Copy (or export) the source used for the clips so that the copied source will be referenced. • [Compress and copy a clip] Handle the audio clips of the timeline as one clip. The clip and file names of the first clip with the smallest track number will be used as the clip and file names of the exported files. If both the VA and A tracks have audio, the first clip and file names of the A track will be used. • [Use original clips] Reference the original source directly without copying. • [Enable Pan setting] Check this item to export the stereo tracks as monaural tracks of individual channels. If unchecked, the stereo tracks will be downmixed and exported as monaural clips. For the channel map, if the track number is an odd number, 1ch (L side) of the track will be used, and if the track number is an even number, 2ch (R side) of the track will be used. The clip names will be "clip name + .L" for odd number tracks and "clip name + .R" for even number tracks.

[Copy option]	<p>Specify how the source will be copied when you select [Copy clips] in [Video Clip] and/or [Audio clip].</p> <p>[Copy used clips] Copy source files that are used by the clips on the timeline.</p> <p>[Export the used area to a file] Export only the ranges that are used by the clips on the timeline. In this case, the setting of [Margin] is enabled to export the file adding the specified time margins at In/Out points. If you select [Copy clips] in [Audio clip], the source will be downmixed and exported as a monaural clip.</p> <p>[Output folder] Select a source file export destination. If you select [Create a folder], a folder with the same name of the AAF file folder in the destination to which the AAF file is exported, and the source files will be exported to that folder. If you select [Same folder], the source files will be exported to the destination of the AAF file.</p> <p>[Exporter]</p> <ul style="list-style-type: none"> • [Video] Select the exporter to export video files. • [Display timecode] Check this item to display the timeline timecode in the exported video. • [Audio] Select the exporter to export audio files. • [Export in 16bit] Check this item to convert the source to the 16-bit format audio, regardless the project settings.
[Save preset]	<p>Register the current settings as a new preset. Enter a preset name, and click [OK].</p>
[Delete]	<p>Delete the currently selected preset. [Type : 1], [Type : 2], and [Type : 3] cannot be deleted.</p>
[OK]	<p>Click this button to change the settings for the selected AAF export preset temporarily. Click [Save preset] and save the changed settings to register the preset, as the changes are not saved by this operation.</p>
[Cancel]	<p>Cancel the settings and return to the [Project Exporter (AAF)] dialog box.</p>

Exporting EDL Files (EDL Export)

You can export a project file that you edited with EDIUS as an EDL file.

Items to Be Exported

Tracks

Export the following tracks. The clips placed on other tracks not mentioned below are not exported.

- 1 - 2VA (1 - 2V) tracks
- 1 - 4A tracks
- T tracks (All tracks)

Audio

Audio clips in 1 - 2VA track are not exported. Export channel range for 1 - 4A tracks is different depending on EDL type.

EDL types	Tracks
BVE5000	1 - 2A
BVE9100	1 - 4A
CMX340	1 - 2A
CMX3600	1 - 4A

1 Click the [Save Project] list button on the timeline.



2 Click [Export Project] → [EDL].

Alternative

• Click [File] on the menu bar, and click [Export Project] → [EDL].

3 In the [Project Exporter (EDL)] dialog box, specify a file name and save destination.

4 Click [Detailed Settings].

The [EDL Exporter Detailed Settings] dialog box appears.

[EDL Exporter Detailed Settings] Dialog Box ▶ P57

5 Set each item and click [OK].

6 Click [Save].

[EDL Exporter Detailed Settings] Dialog Box

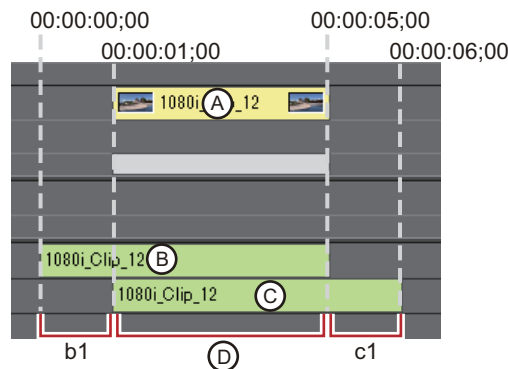
[EDL Type]	Select the EDL format to export.
[Export Format]	<p>[Mode1] Comment lines are not added.</p> <p>[Mode2] Comment lines are added. Select this format when you cannot correctly import EDL files by third-party products.</p>
[Handle empty clips as black clips]	Handle the empty spaces on timeline are as black clips. Check [Use longest clip as reference] to handle Out point at the end edge of the timeline as the end edge of the timeline; the empty spaces between them are handled as black clips.
[Link clips with sequential time codes]	Handle a series of multiple clips as one clip when their timecodes are sequential. However, they are not linked when transition is set between them.
[Export EDL for each track]	<p>Export the project file for each track. The following characters are added to the end of each file name.</p> <ul style="list-style-type: none"> • 1VA (1V) track video: “_V” • A track: “_A” • 2VA (2V) track video: “_INSERT” • T track: “_T” <p>The audio of both 1VA, 2VA, and A tracks is output together to a “file name_A.edl” file.</p> <p>When 2VA (2V) track has a transition, it will be replaced with a center cut.</p>
[Replace transitions with center cuts]	Replace all places with transitions or audio cross fade configured with the center cuts.

[No split information]	Release the grouping of video and audio, and handle the video clips and audio clips separately. Check this item when you cannot correctly import EDL files by third-party products. If you check this item, [Handle split clips separately] cannot be set. Splitting Clips to Handle Separately ▶ P58
[Handle split clips separately]	Divide the split part of the clip with split to eliminate the split. Note that when the speed of clips is changed, the split part is not fragmented. This item cannot be set if you check [No split information]. Splitting Clips to Handle Separately ▶ P58
[When in reverse play, reverse player In/Out timecodes]	Display the reverse playback in the direction from the Out point to In point. The reverse playback is normally displayed from the In point to Out point. This item is available when you set CMX type for EDL type.
[When in reverse play, move one frame in the In direction]	Add a frame to the Player In point at reverse playback. Check this item when you cannot correctly import EDL files by third-party products. It prevents the original timecode from slipping off 1 frame forward. Normally, 1 frame is added to Out point of the Player at reverse playback.
[Combine Insert Tracks]	Check this item to overwrite a VA1 (or V1) track with images of a VA2 (or V2) track and to export both tracks as a VA1 (or V1) track together.
[Create Reel List]	Create the list of reel numbers.
[Add Reel No. to clip name in comment]	This item can be changed only when [Mode2] (output format to add comment lines) is selected in [Export Format]. Check this item to add a reel name to the clip name output to the comment lines.
[Master reel number]	Set the master reel number used in BVE9100. The value range is between "0" and "9999".
[Block number]	Set the block number used in BVE5000 or BVE9100. The value range is between "0" and "999".
[Adjusted Data Settings]	<p>[Master reel number] When A/A roll (transition among the clips with the same reel number) exists, this reel number is to use the location in the replaced file. When the original clips have the same reel number, decrease the number one by one to avoid the number duplication.</p> <p>[Block number] Set the block number used in BVE5000 or BVE9100. The value range is between "0" and "999".</p> <p>[Preroll area] Specify the margin added to In/Out points of the clips.</p> <p>[Offset time code] Enter the start timecode (optional).</p> <p>[Regenerate setting] Set the start timecode to the In point of the first clip.</p> <p>[Jam sync setting] Set the In/Out points of the clip to the In/Out points of the timeline.</p>

Splitting Clips to Handle Separately

When clips placed on different tracks are grouped and the clips have a gap within 3 seconds between the clips, they are split when exporting the EDL file.

When the clips have split information, the export result of EDL files differs depending on the settings in the [EDL Exporter Detailed Settings] dialog box. Here explains an example when the clips placed in 3 different tracks are grouped.



If [No split information] is checked:

The grouping of the clips is released to handle each clip separately. They are fragmented in 3 periods of time (A, B, and C in the figure above).

- (1) Information of A (00:00:01;00 - 00:00:05;00)
- (2) Information of B (00:00:00;00 - 00:00:05;00)
- (3) Information of C (00:00:01;00 - 00:00:06;00)

If [No split information] is unchecked:

Gaps between the clips are split. Areas of b1 and c1 in the figure are split, and the information is fragmented into 1 period of time as range D.

- (1) Information of D (00:00:01;00 - 00:00:05;00) (including the split information of b1 and c1)

If [Handle split clips separately] is checked:

The gap between tracks is fragmented to eliminate the split. The information is fragmented in 3 periods of time (b1, c1, and D in the figure above).

- (1) Information of b1 (00:00:00;00 - 00:00:01;00)
- (2) Information of c1 (00:00:05;00 - 00:00:06;00)
- (3) Information of D (00:00:01;00 - 00:00:05;00)

Note

- The clips with the speed changed are not split or handled separately, because their grouping becomes released.

Importing Files Created with Other Video Editing System

AAF files, EDL files, Final Cut Pro, P2 mobile recorder, and files created by XDCAM devices can be imported and edited with EDIUS.

Importing AAF Files (AAF Import)

You can import an AAF file to edit with EDIUS.

Note

- If you import an AAF file to EDIUS, the condition below must be met:
 - The AAF file is output by frame unit
 - The source file and the AAF file are separate (an embedded AAF file is not supported)

1 Click the [Open Project] list button on the timeline.




2 Click [Import Project] → [AAF].

 **Alternative**

- Click [File] on the menu bar, and click [Import Project] → [AAF].

3 Select an AAF file to import in the [Project Importer (AAF)] dialog box, and click [Open].

-  • If [New sequence] is checked, a new sequence is created to import an AAF file. If this item is unchecked, a new track is created to import an AAF file.
- For an audio clip with monaural settings, the audio channels are set as below and the clip will be imported as monaural.
 - A1: channel 1
 - A2: channel 2
 - A3: channel 3
 - A4: channel 4

For an audio clip with monaural setting, the even number tracks on which the clip is placed are sorted to L, the odd number tracks to R.

Importing EDL Files (EDL Import)

You can import an EDL file (Edit Decision List) to perform online edit.

1 Click the [Open Project] list button on the timeline.



2 Click [Import Project] → [EDL].

 **Alternative**

- Click [File] on the menu bar, and click [Import Project] → [EDL].

3 Select an EDL file to import in the [Project Importer (EDL)] dialog box.

4 Click [Detailed Settings].

The [EDL Importer Detailed Settings] dialog box appears.

[EDL Importer Detailed Settings] Dialog Box ▶ P61


-  • Check [New sequence] to create a sequence and import an EDL file.

5 Set each item and click [OK].

6 Click [Open].

The EDL file is imported and the [Restore and transfer clip] selected dialog box is displayed. Restore the offline clip.

Restoring Offline Clips ▶ P66

-  • For an audio clip with monaural settings, the audio channels are set as below and the clip will be imported as monaural.
 - A1: channel 1
 - A2: channel 2
 - A3: channel 3
 - A4: channel 4

For an audio clip with monaural setting, the even number tracks on which the clip is placed are sorted to L, the odd number tracks to R.

 **Note**

- Information below cannot be imported from BVE5000/BVE9100.
 - EditMode Filed:ASMBL, ASSY1
 - EditType Filed: other than C, W, and D

- GPI data line
- Learn data line
- Information below cannot be imported from CMX340/CMX3600.
 - EditType Filed: other than C, W, and D

[EDL Importer Detailed Settings] Dialog Box

[EDL Type]	Select the EDL type to input.
[Import Format]	<p>This setting is available when you select CMX type in [EDL Type]. Select the calculation method of Out point for the source file with a speed specified.</p> <p>[Mode1] Add (subtract) the value of source duration multiplied by the speed to the timecode at In point, and calculate the timecode at the Out point. Using the timecode at Player In point as reference, add for the + direction or subtract for the – direction.</p> <p>[Mode2] Use the timecode of Player Out point, not calculating Out point when Player In and Out points become the timecodes of source In and Out points.</p>
[Handle black clips as empty clips]	When the reel name is BL/BLK/BLACK, handle the clip as a black clip, and handle the black clip as an empty clip.
[Overwrite clips that are stacked on top of each other in the timeline video track]/[Overwrite audio clips that are stacked on top of each other in the timeline audio track]	If importing a file without checking [New sequence] in the [Open] dialog box, the current clips are overwritten when the clips are stacked on the timeline of the 1VA (1V, 1A) track. If this item is unchecked, the clips are not overwritten, but the clips are placed on 2VA, 3VA (2V, 3V, 2A, 3A) tracks. If there is no 2VA, 3VA (2V, 3V, 2A, 3A) tracks, a new track is created.
[Match channels when the channels in a transition's "from" side and "to" side is different]	If the number of video or audio are determined to be different between the From side and To side, the number information of the video and audio on the To side is copied to the From side for alignment. This setting is available when you select CMX type in [EDL Type].
[Export Error Log]	Export a file containing error information if an error occurs at import. [Export File Format] and [Export Type] can be set. If [All] is selected in [Export Type], the imported contents and error location are shown.

Importing Final Cut Pro XML Files (FCP XML Import)

You can import an XML file exported from Final Cut Pro to edit with EDIUS.

Note

- Effects of Final Cut Pro (“color bar and tone”, “mat”, and “darkness”) are replaced as follows:
 - Color bar and tone → Color bar clip
 - Mat (color matte/single color) → Black color matte clip
 - Darkness → Black color matte clip
- For the Final Cut Pro multi-clip, those selected in the multi-clip are placed to the EDIUS timeline.
- The following items cannot be restored in EDIUS.
 - Title (text) clip
 - Transition applied to the clip and a blank
 - All transitions other than dissolve (all transitions are replaced with dissolve)
 - Key frame
 - Video filter

In addition, the same sequence clips may be imported as different sequence clips. The sequence clips are imported as the same sequence clips only if the sequence IDs are included and the internal tags are empty.

- 1 Click the [Export File Format] list button on the timeline.



2 Click [Import Project] → [FCP XML].

Alternative

- Click [File] on the menu bar, and click [Import Project] → [FCP XML].

3 Select an XML file in the [Project Importer (FCP XML)] dialog box, and click [Open].

The XML file is imported and the [Restore and transfer clip] selected dialog box is displayed. Restore the offline clip.

Restoring Offline Clips ▶ P66

Importing P2 PLAYLIST (P2 PLAYLIST Import)

You can import a playlist edited in P2 mobile recorder (AJ-HPM100/AJ-HPM110/AJ-HPM200) to edit with EDIUS.

1 Click the [Open Project] list button on the timeline.




2 Click [Import Project] → [P2 PLAYLIST].

Alternative

- Click [File] on the menu bar, and click [Import Project] → [P2 PLAYLIST].

3 In the [Project Importer (P2 PLAYLIST)] dialog box, select an XML file in the “EDITLIST” folder, and click [Open].

The clip will be placed on the timeline.

-  • If [New Sequence] is checked, a new sequence is created to import an XML file. The start timecode is set with priority for the imported playlist. If this item is unchecked, the XML is imported to the currently selected sequence. The start timecode is set with priority for the selected sequence.
- If [FileCopy] is checked, the source files are copied to a folder specified by clicking [Browse], and the copied source files are referenced. If this item is unchecked, the original source will be referenced.
- The audio clips are placed to A track.

Importing XDCAM Files (XDCAM Import)

An edit list created by the XDCAM HD deck or software accompanied to XDCAM can be imported to and edited with EDIUS.

1 Click the [Open Project] list button on the timeline.




2 Click [Import Project] → [XDCAM].

Alternative

- Click [File] on the menu bar, and click [Import Project] → [XDCAM].

3 Select an SMI file in the [Project Importer (XDCAM)] dialog box, and click [Open].

- For an XDCAM disk, select an SMI file in the “Edit” folder.
- For a PDZ-1 extended clip list, select an SMI file in the “General” folder.
- If a PDZ-1 extended clip list (consists of a single disk) is written back to the disk, select an SMI file in “General” → “ExtClipList” folder.
- For PDW-U1 (SAM format), select an SMI file in “EDTR” → “EDITLIST name” folder.
- For a PDW-U1 (SAM format) extended clip list, select an SMI file in “General” → “ExtClipList” folder.

-  • Check [New Sequence] to create a sequence and import an SMI file. If this item is unchecked, the SMI is imported to the currently selected sequence. The start timecode is the timecode described in the XML file within the same folder where SMI file is saved.

- If [FileCopy] is checked, the source files are copied to a folder specified by clicking [Browse], and the copied source files are referenced.
If this item is unchecked, the original source will be referenced.
- The audio clips are placed to A track.
- The settings to import an XDCAM file can be changed through [Importer/Exporter] in [System Settings] → [XDCAM].

XDCAM Importer Settings ▶ P85

Note

- If a paired XML file does not exist in the same folder as the selected SMI file, the file cannot be imported correctly. This XML file contains the start timecode of the timeline and TC mode settings (drop/non drop).

Field Editing Projects on Another PC

The “field editing function” can be used to ensure that projects move smoothly when, for example, checking out projects edited on a desktop PC and editing them in a limited manner on a laptop PC. When a project that has been checked out by field editing is opened, a message is displayed to prevent duplicate editing of the project.

Checking Out Projects (Check-out)

Collect the project and source clips referenced by the project in a specified folder on a removable USB storage media. Instead of the original source files, proxy files for limited editing also can be checked out.

- 1 Click [File] on the menu bar, and click [Field Editing] → [Check out].

The [Check Out] dialog box appears.

[Check Out] Dialog Box ▶ P63

- 2 Click [Browse], and specify the checkout destination.

- 3 Set each item and click [OK].

- 4 Click [Yes].

When checkout is completed, the project is closed, and the [Start Project] dialog box appears. [Check out] is displayed in [Status] of checked out projects.



- You can check the detailed information of clips transferred by project checkout by the following operation. Right-click a clip on the timeline or in the bin, and click [Properties]. You can confirm the directory of the checkout source file and the clip type (proxy/high-resolution) at checkout by clicking the [Check out info] tab.

[Check Out] Dialog Box

[Checked Out]	Click [Browse], and specify the collection point (e.g. removable USB storage media) of the project or source clips. Check [Create folder with project name] to create a folder with the project name in the destination folder. You can enter a comment in the [Comments] field. You can check the amount of free space at the checkout destination and the size of the project data for checking out and field editing at [Drive Space] and [Required Space]. The numerical value of [Required Space] differs according to the [Check Out Source Files] and [Check Out Target] setting.
[Check Out Source Files]	<p>[Proxy] Check this item to collect the proxy at the checkout destination. The checked out project references the proxy. A proxy will be automatically generated if there is not proxy.</p> <p>[HiRes] Check this item to collect the original source files at the checkout destination. When copying only parts currently used on the timeline, set the margin.</p>
[Copy only L clip for stereo clips]	Displayed only in the stereoscopic edit mode. Check this item to collect the L side of the stereoscopic clip at the checkout destination. When both L and R sides is included in a single file, the clips are copied as they are.

[Check Out Target]	Select the clips to be collected at the checkout destination. When [Only timeline (Opened Sequence)] is selected, only the clips currently used on the timeline of the currently open sequence are collected. When [All] is selected, both the clips currently used on the timeline and the clips registered to the bin are collected.
---------------------------	--

Editing at the Checkout Destination

1 Start up EDIUS, and open the checked out project.

The checked out project is displayed as [Checked out] at [Status] in the [Start Project] dialog box.

2 Edit and save the project.



- It is recommended to set automatically run partial transfer so that clips added in editing at the checkout destination are automatically transferred to the project folder. Auto-run of partial transfer can be set by [Source] in [User Settings] → [Partial Transfer]. Select [From Removable Media and Hard Drive] in [Target Clip], and check the required 2 items in [Auto Transfer].

To execute auto-run of partial transfer, the clip must be displayed on the Player, the In and Out points must be set, and the clip must be imported to the timeline or bin by button operation.

Transferring Only Necessary Parts ▶ P171

- When only the proxy or source including the proxy has been checked out, the project automatically opens in the proxy mode.

Switching to the Proxy Mode ▶ P312

- Project settings can be changed also in checked out projects.
- Additional checkouts are not possible at checkout destinations.
- When the proxy mode is canceled on a project from which only the proxy was checked out, a diagonal line is displayed on the clip on the timeline and the clip is displayed as a partial offline clip.



Note

- When only the proxy is checked out for editing, the frame display during trimming and the background during title clip editing appear as a checkered pattern.

Returning Checked Out Projects (Check-in)

1 Start up EDIUS, and open the checkout source project.

The checkout source project is displayed as [Check out] at [Status] in the [Start Project] dialog box.

The [Check Out Status] dialog box appears.

2 Click [Check in].

The [Check In] dialog box appears.

[Check In] Dialog Box ▶ P65



Alternative

- Open the checkout source project file, and click [Open as read-only] in the [Check Out Status] dialog box. Click [File] on the menu bar, and click [Field Editing] → [Check in].

3 Click [OK].

4 Click [Yes].


The project opens with editing details reflected.



- The checkout source project cannot be renamed even if a project file with a different name has been checked in.
- The proxy that was used at the checkout destination is not copied when it is checked in.

5 Save a project.

[Check In] Dialog Box

[Project file]	Displays the project file to check in. By default, the checkout destination and project name set in the [Check Out] dialog box at the time of checkout are displayed. Any project file can be selected by clicking [Browse].
[Add/Update file]	Displays any files updated at the checkout source and files added or updated at the checkout destination from checkout onwards in a list. Select from the list how to process additional or updated files. When [Use Original] is selected from the [Processing] list, the files are linked to the source files at the checkout source. When [Copy to Project Folder] is selected, the source files at the checkout source are copied and linked to the project folder at the checkout source. File properties can be confirmed by clicking  .

Canceling Checkout

You can discard checkout information.

1 Start up EDIUS, and open the checkout source project.

The checkout source project is displayed as [Check out] at [Status] in the [Start Project] dialog box.

The [Check Out Status] dialog box appears.

2 Click [Undo check out].



Alternative

- Open the checkout source project file, and click [Open as read-only] in the [Check Out Status] dialog box. Click [File] on the menu bar, and click [Field Editing] → [Undo check out].



- When a checkout source file is saved under a new name, it will be saved as a file with checkout information canceled.

3 Save the project.



Note

- When the checkout source project is not saved after checkout is canceled, the cancel will be invalidated and the checkout status will be maintained.

Restoring Offline Clips

Restoring Source Link

This section explains how to restore the original source when the source cannot be referenced by the clip.

About Restoration of Offline Clips

This function helps to restore the original reference source file when you lost the link from the clip.

Clips registered in the bin are linked with their source. If the source used in a project file is moved or deleted, the clips linked to that source become offline clips.

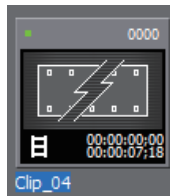
If there are offline clips on the timeline, an icon to indicate the presence of offline clips and the number of the offline clips are displayed on the timeline status bar.



The offline clips on the bin and the timeline are displayed as below, and the video and audio are both muted during the playback.

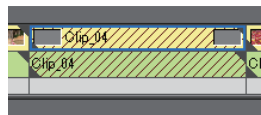
Example:

Offline clip in the bin



Example:

Offline clip in the timeline



Restoring Offline Clips

Select a restoration method for the offline clips.

- 1 Click the [Open Project] list button on the timeline.



- 2 Click [Restore and Transfer Clips].

The [Restore and transfer clip] selected dialog box appears.

[Restore and transfer clip] Selected Dialog Box ▶ P67

Alternative

- Click [File] on the menu bar, and click [Restore and Transfer Clips].

Note

- Registered clips that are reference AVI files will be marked as offline clips if any part of the source is moved. In such cases, the offline clips cannot be restored.
The reference AVI is a file containing only the audio data entity and destination information, developed by Grass Valley with its own extension within a range of the specification. It is different from regular AVI files.
- Files can be captured or restored only when matching the following conditions:
 - Video information exists.

- The reel name is set.
- Source file extensions are *.avi, *.m2t, *.mov, or *.mxf.

[Restore and transfer clip] Selected Dialog Box

[Capture entire clip]	The [Batch Capture] dialog box appears. Capture the entire source. <i>Capturing and Restoring</i> ► P69
[Capture only the area used in timeline]	The [Batch Capture] dialog box appears. Capture only the part used in the timeline. If there are multiple offline clips, replace each offline clip with the captured source. <i>Capturing and Restoring</i> ► P69
[Find from captured files]	Search the source by reel number (Ubit) and timecode (between In and Out points) in already captured files. <i>Searching File by Reel Number to Restore</i> ► P69
[Open the clip restoration dialog]	The [Restore and Transfer Clips] dialog box appears. Restore the offline clips by reestablishing a link to the disconnected source or by retransfer the source that cannot reference a part of the clip. <i>Re-link and Restoration</i> ► P67
[Close]	Click [Close], and click [Yes] to display the operation screen without restoring the offline clip.

Re-link and Restoration

You can search the source from the hard disk drive to re-link.

1 Click [Open the clip restoration dialog] in the [Restore and transfer clip] selected dialog box.

The [Restore and Transfer Clips] dialog box appears.

[Restore and Transfer Clips] Dialog Box ► P68



Alternative

- To restore the clips on the timeline, double-click the offline clip icon on the status bar. In this case, only the offline clips on the timeline are displayed in the clip list in the [Restore and Transfer Clips] dialog box.

2 Select the target range of the clip from the [Range] list.

3 Select a clip (or clips) from [Clip list], and select either [Relink (select file)] or [Relink (select folder)] from the [Restoration Method] list.

4 Select the source from the [Open] dialog box, and click [Open].

If [Relink (select folder)] is clicked in step 3, select a folder in the [Browse For Folder] dialog box and click [OK].

5 Click [OK].

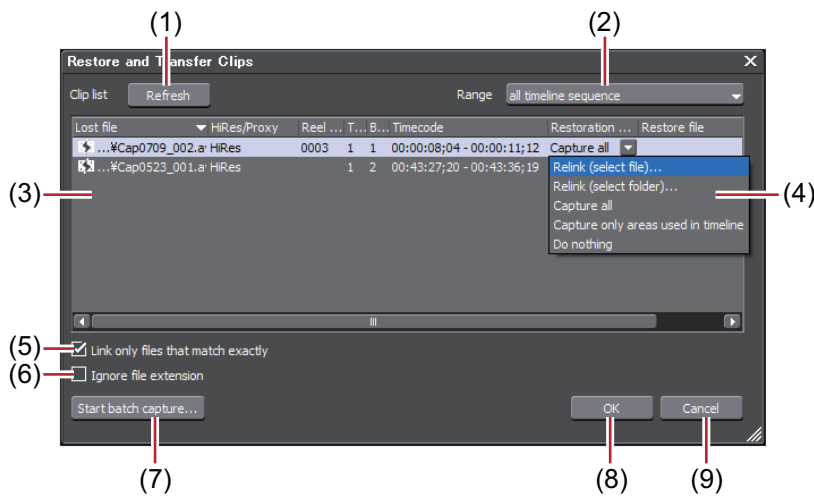
6 Click [Close] in the [Restore and transfer clip] selected dialog box.



Alternative

- Double-click a offline clip on the timeline or in the bin window, and perform operations after step 3.

[Restore and Transfer Clips] Dialog Box



(1)	[Refresh]	Restore clips to which the restoration method is set.
(2)	[Range]	Select the target range of the clips from the list.
(3)	Clip list	<p>: Offline clips Clips whose links to the source are disconnected.</p> <p>: Clips with restored links Clips whose links to the source are restored.</p>
(4)	[Restoration Method]	<p>[Relink (select file)] The [Open] dialog box appears. Select the source to re-link.</p> <p>[Relink (select folder)] The [Browse For Folder] dialog box appears. Search the source with the same name in the specified folder to re-link.</p> <p>[Undo transfer] Re-link the original source prior to the transition to the project folder.</p> <p>[Capture all] Click [Start batch capture] to display the [Batch Capture] dialog box to register the information of the entire source. Importing Sources All Together (Batch Capture) ► P150</p> <p>[Capture only areas used in timeline] Click [Start batch capture] to display the [Batch Capture] dialog box to register the clip information used in the timeline.</p> <p>[Do nothing] Offline clips are not re-linked or captured.</p>
(5)	[Link only files that match exactly]	Check this item to specify only the files with exactly the same information in the original file to be re-linked.
(6)	[Ignore file extension]	Check this item to include files with different extensions for re-link.
(7)	[Start batch capture]	This item is enabled when either [Capture all] or [Capture only areas used in timeline] is selected from the [Restoration Method] list. Click this button to display the [Batch Capture] dialog box.
(8)	[OK]	Restore the offline clips with the specified settings.
(9)	[Cancel]	Close the dialog box without restoring the offline clips.

Capturing and Restoring

If the source of the offline clips does not exist in the hard drive, you can restore the clips by recapturing from the original source (recorded tapes).

- 1 In the [Restore and transfer clip] selected dialog box, click [Capture entire clip] or [Capture only the area used in timeline].

The [Batch Capture] dialog box appears.

Importing Sources All Together (Batch Capture) ► P150

Alternative

- In the [Restore and Transfer Clips] dialog box, select either [Capture all] or [Capture only areas used in timeline] from the [Restoration Method] list, and click [OK].

- 2 Execute the batch capture.

Searching File by Reel Number to Restore

Search the source by reel number (Ubit) and timecode (between In and Out points) in already captured files.

- 1 Click [Find from captured files] in the [Restore and transfer clip] selected dialog box.

The [Restore Offline Clip] dialog box appears.

Search a file in a folder where the project is saved. If you cannot find the file, click [Select Folder] and select a folder where the captured files are stored, and click [OK].

- 2 Click [Restore All].

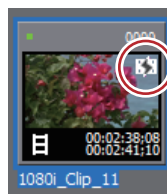
To restore selected files only, select a clip from [Find clip list] and click [Restore].

Restoring Clips That Cannot Reference Clip Part

The clips will be partial offline clips under the following conditions: when a portion that forms a clip containing a proxy, when the proxy created with EDIUS cannot be referenced, when a portion of the partially transferred clip cannot be referenced, or when either L or R side of the stereoscopic clip that has the stream of both L and R sides in 2 files. The partial offline clips in the bin and the timeline are displayed as shown below:

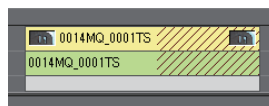
Example:

Partial offline clip in the bin



Example:

Partial offline clip in the timeline



If there are partial offline clips on the timeline, an icon to indicate the presence of partial offline clips and the number of the offline clips are displayed on the timeline status bar.



Note

- If offline clips and partial offline clips exist on the timeline when you export the project to a file or tape or when consolidating or exporting the project, a message is displayed. Restore the offline clips and partial offline clips. Otherwise, they will be exported as offline clips.

Restoring Partial Offline Clips

Restore the partial offline clips by retransfer the missing source or recreating the proxy. If needed, connect the device where the original source is stored.

If either the L or R side of the stereoscopic clip cannot be referenced, perform same restoration operations for offline clips.

Restoring Offline Clips ▶ P66

1 Click the [Open Project] list button on the timeline.



2 Click [Restore and Transfer Clips].

Alternative

• Click [File] on the menu bar, and click [Restore and Transfer Clips].

3 Click [Open the clip restoration dialog] in the [Restore and transfer clip] selected dialog box.

The [Restore and Transfer Clips] dialog box appears.

[Restore and Transfer Clips] Dialog Box ▶ P70

Alternative

• To restore the clips on the timeline only, double-click the offline clip icon on the status bar.

4 Select the target range of the clip from the [Range] list.

5 Select a clip (or clips) from [Clip list], and select a restoration method from the [Restoration Method].

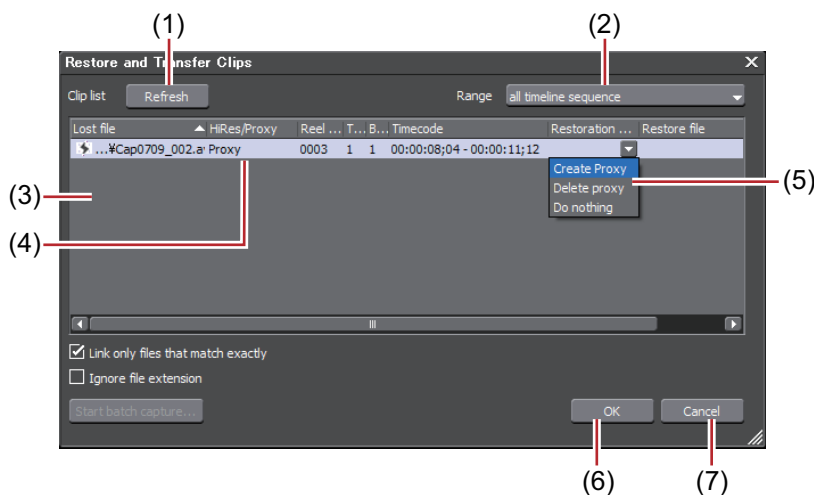
6 Click [OK].

The process is executed with the restoration method selected in [Restoration Method].



7 Click [Close] in the [Restore and transfer clip] selected dialog box.

[Restore and Transfer Clips] Dialog Box

* The screen shown is an example The displayed restoration method varies according to the type of offline clips.



(1)	[Refresh]	Click this button to refresh the clip list. Restore clips to which the restoration method is set.
(2)	[Range]	Select the target range of the clips from the list.

(3)	Clip list	 : Offline clip/Partial offline clip Clips whose links to the source are disconnected.  : Clips with restored links Clips whose links to the source are restored.
(4)	[HiRes/Proxy]	Displays the type (high-resolution or proxy) of the offline clips and partial offline clips.
(5)	[Restoration Method]	[Transfer the Missing Area] Retransfer the missing portion from the device where the source file prior to the partial transfer is stored. [Undo transfer] Re-link to the source files prior to the partial transfer. [Create Proxy] Recreate the proxy from high-resolution. [Delete proxy] Delete the proxy information of the clip. [Do nothing] The offline clips and partial offline clips are not restored.
(6)	[OK]	Restore the partial offline clips with the specified settings.
(7)	[Cancel]	Close the dialog box without restoring the partial offline clips.



- If you select [Transfer the Missing Area] or [Create Proxy] for the restoration method, the process is registered to the background job. Until the job is completed, the target clips remain partial offline clips.
- If you double-click the icon on the timeline status bar to display the [Restore and Transfer Clips] dialog box, only the partial offline clips and offline clips on the timeline are displayed in [Clip list].

CHAPTER 4

Edit Settings

This chapter explains how to change editing operation and screen display settings, register the editing environment, register external devices used for capture or tape output, and other operations.

[System Settings]

System settings allow you to manage project presets and profiles, set input/output hardware, set input of sources and input/output of project files, and other operations.

If you use the restricted user profile, the system settings cannot be changed.

Restricted user profile ► P104

The following explains the items that can be set in the system settings.

The settings can be changed even during editing.

[Application]

Set EDIUS operations.

[Playback]

Set playback operations.

- 1 Click **[Settings]** on the menu bar, and click **[System Settings]**.
- 2 Click the **[Application]** tree, and click **[Playback]**.
- 3 Set each item.

[Stop Playback at Frame Drop]	Stop the playback when playback processing cannot keep up with the playback speed.
[Playback Buffer Size]	Specify the size of the buffer used for realtime playback in MB (megabytes).
[Buffered Frames Before Playback]	Set the number of frames buffered when starting playback. When playback stops because it cannot keep up with the speed just after playback is started, the situation may be improved by increasing the number of frames.

- 4 Click **[OK]**.

You can continue to set other items by clicking **[Apply]**.


[Capture]

Set EDIUS capture operations, processing at automatic detection of events, and other operations.

- 1 Click **[Settings]** on the menu bar, and click **[System Settings]**.
- 2 Click the **[Application]** tree, and click **[Capture]**.
- 3 Set each item.

[Margin]	Set the length of the margin added at In and Out points at capture operation.
[Confirm Reel Name Setting after Setting Device Preset]	After a device preset is selected in the [Select Input Device] dialog box at a capture operation, the dialog box for setting the reel name appears.
[Confirm File Name at Capture]	Check and set the file name at a capture operation. If you select [Before Capture] , you can set the destination and file name before performing capture. If you select [After Capture] , you can set the destination and file name after capture is finished.
[Load to Player after Capture]	Play back the file created after capture automatically.
[Correct Audio Errors Automatically]	Correct audio errors automatically at a capture operation.
[Set file names for 2 file Capture]	If you create 2 files for the L side (for left eye) and the R side (for right eye) with 2 streams at stereoscopic source capture, set the suffix for the file name for L and R sides.

<p>[Automatic Detection of Capture Events]</p>	<p>Select the conditions for automatically inserting cuts in files at capture operation. Cut insertion conditions are as follows:</p> <ul style="list-style-type: none"> • [At Timecode Break] • [When Aspect Ratio Changes] • [When Sampling Rate Changes] • [When the recorded Time Date Changes] <p>[When an Event is Detected]</p> <p>Select how cut positions are processed. If you select [Divide Files], files are divided at the cut position. If you check [Group Divided Files as Sequence], multiple divided files are registered to the bin as a single sequence clip. If you select [Add Marker], a clip marker is set at the cut position.</p>
<p>[Deck Control after Capture]</p>	<p>Select the deck state after capture operation from the list.</p>

 • Set voice over margins at [Margin] under [Capture].

4 Click [OK].

You can continue to set other items by clicking [Apply].

[Render]

Set the reference of rendering options or the timing to delete rendering files.

- 1 Click [Settings] on the menu bar, and click [System Settings].**
- 2 Click the [Application] tree, and click [Render].**

3 Set each item.

[Render Options]	<p>Select the rendering target. For example, if you check [Filters] and a rendering option is set when a filter is applied on a clip placed on the timeline, the area of that clip changes color to yellow. By unchecking [Filters], the area will not change color to yellow. By default, all items below are checked. <i>Color-coding Clips on the Timeline</i> ► P218</p> <p>[Filters] Select video filters as the rendering target.</p> <p>[Transition/CrossFades] Select transitions and title mixers as the rendering target.</p> <p>[Key/Transparency] Select key effect and transparency (when changed from the default) as the rendering target.</p> <p>[Speed Change] Select clips that feature any speed adjustments from the default value of 100% as the rendering target.</p> <p>[Contents that are not in the Project Format] Select clips matching any of the following formats as the rendering target:</p> <ul style="list-style-type: none"> • Frame size different from that in the project • Aspect ratio different from that in the project • Frame rate different from that in the project • Field order different from that in the project • Compression format different from format handled by codec specified in the project settings • Clip including alpha information
[Render Decisions]	<p>Check this item to perform rendering when the buffer becomes less than the set value in [Buffer Left: Fewer than] at playback.</p> <p>[Buffer Left: Fewer than] Set the left of buffer value to be referenced for rendering decisions.</p>
[Delete Invalid Rendered Files]	Select the timing to delete rendering files.

Rendering Overload Areas of the Entire Sequence ► P294

Rendering Overload Areas between In and Out Points ► P295

4 Click [OK].

You can continue to set other items by clicking [Apply].

[Profile]

Register editing environments as profiles and manage these profiles.

Editing Environment Management ► P101

[Project Preset]

Create new project presets and manage project presets.

Creating New Project Presets ► P47

[Loudness Meter]

You can register reference to be used at the loudness measurement as a preset.

1 Click [Settings] on the menu bar, and click [System Settings].

2 Click the [Application] tree, and click [Loudness Meter].

3 Click [Add].

4 Set each item.

[Preset Name]	Enter the name of the sequence.
[Block Scale Momentary]	Enter the measurement time for the momentary value.
[Short-term Gating Block Size]	Enter the measurement time for the short-term value.
[Overlap]	Enter the overlap value.
[Relative Gating threshold]	Enter the relative gating block level.
[Target Level]	Enter the target level.
[Meter range]	Set the meter range.
[Group 1]/[Group 2]	Set the output channel assignments for L/R/C/LS/RS channels. Set the assignment to both [Group 1] and [Group 2] to measure 2 groups simultaneously. [Downmix] Select an equation of the downmix process from the list.
[Add]	Add a preset.
[Delete]	Delete a preset.
[Register]	Register the preset for the settings.
[Import]/[Export]	Import/export the setting file for the loudness meter.

Measuring Volume ▶ P408

5 Click [Register].

6 Click [OK].

You can continue to set other items by clicking [Apply].

[Source Browser]

Set the transfer destination used when importing a file from the source browser.

1 Click [Settings] on the menu bar, and click [System Settings].

2 Click the [Application] tree, and click [Source Browser].

3 Set each item.

[File transfer folder]	Specify the transfer destination of the file. If [Custom folder] is selected, click [Browse] and specify a transfer destination.
[Create folder with date]	Check this item to create the date folder in the folder set in [File transfer folder].
[File transfer folder path]	Display the path of the transfer destination. "%MediaType%" is the name of the source media to be transferred by the source browser.

4 Click [OK].

You can continue to set other items by clicking [Apply].

[Hardware]

Register external devices used for capture or tape output, or set external devices that are used for preview during editing.

External Device Management ▶ P106

[Importer/Exporter]

Make the settings for import and export.

[AVCHD]

Set faster seeking of AVCHD files.

- 1 Click **[Settings]** on the menu bar, and click **[System Settings]**.
- 2 Click the **[Importer/Exporter]** tree, and click **[AVCHD]**.
- 3 Set each item.

[Use Accel. Seek]	Set faster seeking of AVCHD files. To speed up seeking, check this item first, and then check the following items if necessary. [Create Seek Information in Background] Collect the time stamp information of AVCHD files at idling to speed up the seek. [Save Seek Information to File] Save the seek information as a reusable file.
[Get timecode from Picture Timing SEI]	Check this item to acquire the timecode information from Picture Timing SEI.

- 4 Click **[OK]**.
You can continue to set other items by clicking **[Apply]**.

[Audio CD/DVD]

Make the setting for importing video or audio from CD/DVD disk.

- 1 Click **[Settings]** on the menu bar, and click **[System Settings]**.
- 2 Click the **[Importer/Exporter]** tree, and click **[Audio CD/DVD]**.
- 3 Set each item.

[File Settings]	Set the name for saving files imported from Audio CD or DVD (DVD-Video, DVD-VR). [Set File Names Automatically.] Automatically generate the file name by combining the current date/time and track number. [Set File Names from Base File Name and Track Name.] Automatically generate the file name by combining the base file name and track number. Check this item to enable input of [Base Name] .
[Audio CD Settings]	Lower the audio level at import in dB units from the original volume.
[DVD Video Settings]	Specify the dividing method at capture operation. Normally, select [At each Program] . When video imported from a DVD recorded on a DVD recorder cannot be played back properly, this is sometimes remedied by checking [Reconstruct Files] . If you check [Segment Encode Files.] , only the necessary parts will be re-encoded.
[DVD-VR Settings]	Specify the dividing method at capture operation. Normally, select [At each Program] . Select [At each Cell] to divide the file into small units. This, however, may create MPEG files that sometimes cannot be played back (incompatible with the MPEG standard) when they are imported depending on the stream.

- 4 Click **[OK]**.
You can continue to set other items by clicking **[Apply]**.

[Still Image]

Make the settings for exporting still images.

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Importer/Exporter] tree, and click [Still Image].
- 3 Set each item.

[Capture Field]	Though highest quality images are [Frame], rapid-moving images sometimes are blurred into vertical comb-like stripes. If this happens, select [Upper Field] or [Lower Field].
[Filtering]	Compensate for deteriorated image quality when [Upper Field] or [Lower Field] is selected at [Capture Field]. [Motion Only] is suitable for partially blurred images, and [Full Screen] is suitable for completely blurred images.
[Adjust Aspect]	The aspect ratio differs for moving images handled in editing and still images handled on the PC. Check this item to adjust the aspect ratio when displaying on a PC screen.
[File Type]	Set the default file format for saving still images.

Exporting Still Image Clips from the Timeline▶ P297

Exporting a Still Image▶ P431

- 4 Click [OK].

You can continue to set other items by clicking [Apply].

[GF]

Set the reference folder when source files in GF devices are imported from the source browser window.

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Importer/Exporter] tree, and click [GF].
- 3 Set each item.

[Source Folders]	This is the list of references that is displayed in the source browser folder view. GF sources can be handled as clips by the source browser by copying them to the hard disk with the folder structure in the device held intact. Click [Add] to set the reference folder. To delete a reference folder that has been set, select the folder and click [Remove].
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- 4 Click [OK].

You can continue to set other items by clicking [Apply].

GXF Connection Settings

Set the connections of FTP servers when outputting in the GXF format.

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Importer/Exporter] tree, and click [GXF].
- 3 Set each item.

[Server List]	Display a list of addresses of FTP servers set as export destinations.
[Add]	Click this item to display the [FTP setting] dialog box for adding connection servers. [FTP setting] Dialog Box▶ P81
[Delete]	Delete servers from [Server List].
[Modify]	Change the server settings.
[Move Up]/[Move Down]	Sort the servers. Select a server from [Server List] and move the selected server one place up or down with each click of [Move Up] or [Move Down].

[Settings]	Display the settings of the connection selected in [Server List].
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4 Click [OK].

You can continue to set other items by clicking [Apply].

[FTP setting] Dialog Box

[Name]	Enter the name set for the server.
[Address]	Enter the IP address or server name of the FTP server.
[PortNo]	Enter the port number. The default port number is 21.
[Directory]	Enter the directory name of the export destination.
[Username]/[Password]	Enter the user name and password required when making the connection.
[Connection Test]	Click this item to test the connection to the FTP server using the currently entered user name and password.

[RED]

Set an image quality for playback of sources in RED format.

1 Click [Settings] on the menu bar, and click [System Settings].

The [System Settings] dialog box appears.

2 Click the [Importer/Exporter] tree, and click [RED].

3 Set each item.

[Preview Quality]	Set the playback image quality. Select [1/1] to retain the source resolution. Select [1/2], [1/4], or [1/8] to reduce the image quality to 1/2, 1/4, or 1/8 of the source horizontal resolution respectively.
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4 Click [OK].

You can continue to set other items by clicking [Apply].

[Infinity]

Set the reference folder when source files in Infinity devices are imported from the source browser window.

1 Click [Settings] on the menu bar, and click [System Settings].

2 Click the [Importer/Exporter] tree, and click [Infinity].

3 Set each item.

[Source Folders]	This is the list of references that is displayed in the source browser folder view. Infinity sources can be handled as clips by the source browser by copying them to the hard disk with the folder structure in the device held intact. Click [Add] to set the reference folder. To delete a reference folder that has been set, select the folder and click [Remove].
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4 Click [OK].

You can continue to set other items by clicking [Apply].

K2 (FTP) Connection Settings

Set up FTP server connections before importing sources on the K2 Media server.

1 Click [Settings] on the menu bar, and click [System Settings].

- 2 Click the [Importer/Exporter] tree, and click [K2 (FTP)] → [FTP Server].
- 3 Set each item.

[Server List]	This is the list of K2 Media servers that is displayed in the source browser folder view.
[Add]	Click this item to display the [FTP setting] dialog box for adding connection servers. <i>[FTP setting] Dialog Box ► P82</i>
[Delete]	Delete servers from [Server List].
[Modify]	Change the server settings.
[Move Up]/[Move Down]	Sort the list. Select a server from [Server List] and move the selected server one place up or down with each click of [Move Up] or [Move Down].
[Setting]	Display the settings of the connection selected in [Server List].

- 4 Click [OK].
- You can continue to set other items by clicking [Apply].

[FTP setting] Dialog Box

[Name]	Enter the name of the server to display in the folder view.
[Address]	Enter the address of the server.
[Folder]	The address of the bin is entered. Normally, there is no need to change the frame rate.
[Username]/[Password]	Enter the user name and password required when making the connection.
[Connection Test]	Click this item to test the connection to the FTP server using the currently entered user name and password.

K2 Browser Settings

Set items that are allowed when connecting to the K2 Media server.

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Importer/Exporter] tree, and click [K2 (FTP)] → [Browser].
- 3 Set each item.

[Multi Connection/Multi Conversion]	<p>[Max Number of Connections] Set the maximum number of clips to be downloaded simultaneously from the K2 Media server. When [Allow Multiple Connections to the Same Server.] is checked, the same server can be connected to simultaneously.</p> <p>[Max Number of Conversions] Set the maximum number of clips to be converted simultaneously.</p>
[Allows Users to Rename/Delete Clips.]	Check this item to enable changes to and deletion of clips in the server.

- 4 Click [OK].
- You can continue to set other items by clicking [Apply].

[MPEG]

Set faster seeking of MPEG files.

- 1 Click [Settings] on the menu bar, and click [System Settings].

2 Click the [Importer/Exporter] tree, and click [MPEG].

3 Set each item.

[Use Accel. Seek]	Set faster seeking of MPEG files. To speed up seeking, check this item first, and then check the following items if necessary. [Create Seek Information in Background] Collect the time stamp information of MPEG files at idling to speed up the seek. [Save Seek Information to File] Save the seek information as a reusable file.
[A/V Synchronization Using PTS]	Check this item to use the PTS (time stamp information) for synchronization of audio and video.
[Get Timecode from GOP Header]	Some MPEG files may have timecode information in their header. Check this item to use timecode information.

4 Click [OK].

You can continue to set other items by clicking [Apply].

MXF Connection Settings

Set the connections of FTP servers when outputting in the MXF format.

1 Click [Settings] on the menu bar, and click [System Settings].

2 Click the [Importer/Exporter] tree, and click [MXF] → [FTP Server].

3 Set each item.

The [FTP Server] setting items for MXF are the same as for GXF.

GXF Connection Settings ▶ P80

4 Click [OK].

You can continue to set other items by clicking [Apply].

MXF Decoder Settings

You can set the layer and downsample coefficient to be decoded when importing MXF files in the JPEG2000 format.

1 Click [Settings] on the menu bar, and click [System Settings].

2 Click the [Importer/Exporter] tree, and click [MXF] → [Decoder].

3 Set each item.

[Quality]	Specify a layer to decode. [High] Decode all layers. [Middle] Decode half of the layers. [Low] Decode single layer.
[Downsampling Ratio]	Specify a downsample (scaling) coefficient at decoding.

4 Click [OK].

You can continue to set other items by clicking [Apply].

[P2]

Set the reference folder when source files in P2 devices are imported from the source browser window.

1 Click [Settings] on the menu bar, and click [System Settings].

- 2 Click the [Importer/Exporter] tree, and click [P2] → [Browser].
- 3 Set each item.

[Source Folders]	<p>This is the list of references that is displayed in the source browser folder view.</p> <p>P2 sources can be handled as clips by the source browser by copying them to the hard disk with the folder structure in the device held intact.</p> <p>Click [Add] to set the reference folder. To delete a reference folder that has been set, select the folder and click [Remove].</p>
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- 4 Click [OK].
- You can continue to set other items by clicking [Apply].

[Removable Media]

Set the reference folder when source files in removable media are imported from the source browser window.

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Importer/Exporter] tree, and click [Removable Media].
- 3 Set each item.

[Source Folders]	<p>This is the list of references that is displayed in the source browser folder view.</p> <p>Source files can be handled as clips by the source browser by copying them to the local disk (hard disk) with the folder structure in the media held intact.</p> <p>Click [Add] to set the reference folder. To delete a reference folder that has been set, select the folder and click [Delete].</p>
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- 4 Click [OK].
- You can continue to set other items by clicking [Apply].

[XDCAM EX]

Set the reference folder when source files in XDCAM EX devices are imported from the source browser window.

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Importer/Exporter] tree, and click [XDCAM EX].
- 3 Set each item.

[Source Folders]	<p>This is the list of references that is displayed in the source browser folder view.</p> <p>Source files can be handled as clips by the source browser by copying them to the local disk (hard disk) with the folder structure in the device held intact.</p> <p>Click [Add] to set the reference folder. To delete a reference folder that has been set, select the folder and click [Delete].</p>
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- 4 Click [OK].
- You can continue to set other items by clicking [Apply].

XDCAM Connection Settings

Set up FTP server connections before downloading and importing XDCAM sources from the server.

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Importer/Exporter] tree, and click [XDCAM] → [FTP Server].

3 Set each item.

[Server List]	This is the list of XDCAM servers that is displayed in the source browser folder view.
[Add]	Click this item to display the [FTP setting] dialog box for adding connection servers. <i>[FTP setting] Dialog Box ► P85</i>
[Remove]	Delete servers from [Server List].
[Modify]	Change the server settings.
[Move Up]/[Move Down]	Sort the list. Select a server from [Server List] and move the selected server one place up or down with each click of [Move Up] or [Move Down].
[Settings]	Display the settings of the connection selected in [Server List].

4 Click [OK].

You can continue to set other items by clicking [Apply].

[FTP setting] Dialog Box

[Name]	Enter the name of the server to display in the folder view.
[Address]	Enter the IP address or server name of the FTP server.
[Username]/[Password]	Enter the user name and password required when making the connection.
[Directory]	Select a directory type from the list.
[Connection Test]	Click this item to test the connection to the FTP server using the currently entered user name and password.



- If connection fails by the connection test, try restarting the XDCAM device and PC after completing the FTP server connection setup.

XDCAM Importer Settings

Set whether to use high-resolution audio to edit proxy.

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Importer/Exporter] tree, and click [XDCAM] → [Importer].
- 3 Set each item.

[When proxy is edited, high-resolution audio is used if available.(VFAM drive only)]	For data on VFAM drive, use high-resolution audio data to edit proxy.
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4 Click [OK].

You can continue to set other items by clicking [Apply].

XDCAM Browser Settings

Set the clip type, clip name and other settings when clips are imported before importing XDCAM sources.

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Importer/Exporter] tree, and click [XDCAM] → [Browser].

3 Set each item.

<p>[Download]</p>	<p>Select the data (proxy/high-resolution) to be downloaded from the source browser. <i>Importing from XDCAM Devices</i> ► P165 <i>Importing XDCAM Sources from a Server</i> ► P166 <i>Downloading XDCAM Sources and Simultaneously Placing Them on the Timeline</i> ► P167</p> <p>[When Transfer to Bin] Select the data to be downloaded when transferring to the bin. Select [All] to download both high-resolution and proxy.</p> <p>[When Add to Timeline] Select the data to be downloaded when placing clips on the timeline. Select [All] to download both high-resolution and proxy.</p>
<p>[Source Folders]</p>	<p>This is the list of references that is displayed in the source browser folder view. XDCAM sources can be handled as clips by the source browser by copying them to the hard disk with the folder structure in the device held intact. Click [Add] to set the reference folder. To delete a reference folder that has been set, select the folder and click [Remove].</p>
<p>[Thumbnail]</p>	<p>Set whether to display thumbnails in the clip list in the source browser.</p> <p>[Show Thumbnails when Connecting to FTP] Display thumbnails when making a connection to the FTP server.</p> <p>[Show Thumbnails when Connecting to XDCAM Drive] Display thumbnails when making a connection to the XDCAM device.</p>
<p>[Register Name]</p>	<p>Select the name to register to the bin from [Clip Title] or [Clip Name].</p>

- Even when [Thumbnail] is unchecked, thumbnails are sometimes displayed for clips, etc. that have been displayed as thumbnails even once.

4 Click [OK].

You can continue to set other items by clicking [Apply].

[XF]

Set the reference folder when source files in XF devices are imported from the source browser window.

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Importer/Exporter] tree, and click [XF].
- 3 Set each item.

<p>[Source Folders]</p>	<p>This is the list of references that is displayed in the source browser folder view. XF sources can be handled as clips by the source browser by copying them to the hard disk with the folder structure in the device held intact. Click [Add] to set the reference folder. To delete a reference folder that has been set, select the folder and click [Remove].</p>
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4 Click [OK].

You can continue to set other items by clicking [Apply].

[Effects]

Set up effect plug-ins.

[After Effects Plug-in Bridge]

Make the settings for using After Effects plug-ins on EDIUS.

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Effects] tree, and click [After Effects Plug-in Bridge].
- 3 Set each item.

[Add]	Specify the folder containing the After Effects plug-in to add to [After Effects Plug-in Search Folder]. Restart EDIUS after registering the folder.
[Delete]	Delete folders from [After Effects Plug-in Search Folder].
[Unsupported Plug-in List]	Plug-ins that could not be imported and error details are listed in [After Effects Plug-in Search Folder].

- 4 Click [OK].

You can continue to set other items by clicking [Apply].

After Effects Plug-in Registration

Save the After Effects plug-in (After Effects DLL files) in a folder on your PC.

- 1 Click [Add] at [After Effects Plug-in Bridge].
- 2 In the [Browse For Folder] dialog box, select the folder containing the After Effects plug-in and click [OK]. The folder is registered, and is displayed at [After Effects Plug-in Search Folder].
- 3 Click [OK], and restart EDIUS.

The After Effects folder is registered to [VideoFilters] on the [Effect] palette. You can select After Effects plug-ins from the After Effects folder.

When new DLL files for After Effects have been added to the folder registered in step 2, you do not need to register the folder again.



- To delete the After Effects folder, select the folder from [After Effects Plug-in Search Folder] in step 2 and click [Delete].

[GPUfx]

Make settings for GPUfx.

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Effects] tree, and click [GPUfx].
- 3 Set each item.

[Multisample]	Set antialiasing (processing to make jaggies less conspicuous) when GPUfx is applied. [Multisample Type] Select an available multisample type. [Quality Level] Set the quality level of the type selected at [Multisample Type]. Selectable items differ according to the type of GPU.
[Render Quality]	Set the image quality at editing of parts where GPUfx is applied. When [Full Quality] is selected, GPU is used and displayed at its maximum. When [Draft Quality] is selected, the load at editing can be reduced though this results in lower quality.
GPU performance	Displays the GPU of your PC. GPUfx Transition Operating Environment ▶ P88



Note

- GPUfx cannot be used if video memory on your PC is smaller than 256 MB. The [GPU] folder also will not be displayed on the [Effect] palette.

- Editing is possible at HD size even in environments where only the SD size can be used. In this case, GPUfx transition becomes offline display.

4 Click [OK].

You can continue to set other items by clicking [Apply].

GPUfx Transition Operating Environment

To use GPUfx transition, the following conditions are required:

- Display capability of 1024×768 pixels and 32 bits or more
- Direct3D 9.0c or later
- PixelShader3.0 or higher
- For video memory, see the following table.

Project setting		Video memory	
Frame size	Quantization bitrate	Minimum	Recommended
SD size	8 bits	256 MB	512 MB
	10 bits	512 MB	1 GB
HD size	8 bits	512 MB	1 GB
	10 bits	1 GB	2 GB
Over HD size*	8 bits/10 bits	2 GB	2 GB

* Only on Windows 7 64 bit OS, GPUfx transition can be used with the quality of the project settings retained.

[VST Plug-in Bridge]

Make the settings for using VST plug-in bridge on EDIUS.

- 1 Click [Settings] on the menu bar, and click [System Settings].**
- 2 Click the [Effects] tree, and click [VST Plug-in Bridge].**
- 3 Set each item.**

[Add]	Specify the folder containing the VST plug-in to add to [Add VST Plug-ins]. Restart EDIUS after registering the folder.
[Delete]	Delete folders from [Add VST Plug-ins].

4 Click [OK].

You can continue to set other items by clicking [Apply].

VST Plug-in Registration

Save the VST plug-in (DLL files for VST) in a folder on your PC.

- 1 Click [Add] at [VST Plug-in Bridge].**
- 2 In the [Browse For Folder] dialog box, select the folder containing the VST plug-in and click [OK].**
The folder is registered, and is displayed at [Add VST Plug-ins].

3 Click [OK], and restart EDIUS.

The VST folder is registered to [AudioFilters] on the [Effect] palette.

You can select VST plug-ins from the VST folder.

When new DLL files for VST have been added to the folder registered in step 2, you do not need to register the folder again.

 **Alternative**

- Directly copy DLL files for VST to the “EDIUS 6.5” → “PlugIn” → “VST” folder on the hard disk where EDIUS is installed.

* Normally, the “EDIUS 6.5” folder is located in “C drive” → “Program Files” → “Grass Valley”.

-  • To delete a VST folder, select the folder from [Add VST Plug-ins] in step 2 and click [Delete].

[Input Controller]

[Fader]/[Jog Device]

Assign ports to use the option fader controller and jog controller.

The following products are also supported in addition to the option products:

- Behringer fader controller “BCF2000”
- HDWS/REXCEED series option “MKB-88 for EDIUS”

-  • Assign keys to controller buttons in the user settings.

[Input Controller] ► P99

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Input Controller] tree, and click [Fader] or [Jog Device].
- 3 Set each item.

[Device]	Select the controller to use.
[Port]	Select the port to assign to the controller. After selecting a port, click [Reconnect].

- 4 Click [OK].

You can continue to set other items by clicking [Apply].

[User Settings]

Change how clips are handled on the timeline, or change the user editing environment, for example, by customizing screens or buttons.

Both restricted users and administrator users can change and save settings in profiles from any user profile.

The following explains the items that can be set in the user settings.

The settings can be changed even during editing.

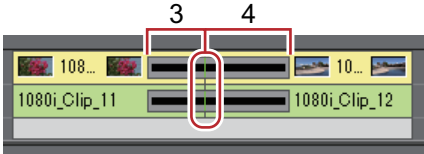
[Application]

Set EDIUS operations.

[Timeline]

Set operation or display on timeline.

- 1 Click [Settings] on the menu bar, and click [User Settings].
- 2 Click the [Application] tree, and click [Timeline].
- 3 Set each item.

<p>[Extend Clips when Applying Transition/Cross Fade]</p>	<p>When a clip transition/audio cross fade has been set to the clip on the timeline, right and left clips extend and overlap with each other. The total length remains unchanged. <i>Extend/Fix mode</i> ▶ P222</p>
<p>[Insert Default Crossfade in Transition]</p>	<p>When a transition has been set to a video clip on a VA track, the default audio cross fade of the same length is simultaneously added to the audio clip at the same position. <i>Changing Default Effects</i> ▶ P341</p>
<p>[Insert Default Transition in Crossfade]</p>	<p>When a cross fade has been set to an audio clip on a VA track, the default transition of the same length is simultaneously added to the video clip at the same position. <i>Changing Default Effects</i> ▶ P341</p>
<p>[Set the Cut Point of Transition/Cross Fade to Front when at Middle of a Frame]</p>	<p>Set the cut points of clip transitions or audio cross fades to forward. For example, when the transition for 7 frames has been set, the cut points are set between the third and fourth frames.</p> 
<p>[Hold the Next Clip when Trimming a Clip (except at ripple trim)]</p>	<p>Disable extension of clips across the edge of the clips on the left and right when trimming a clip with ripple mode off.</p>
<p>[Show Tool Tip During the Trim]</p>	<p>Display timecode information on the tooltip while dragging to trim the cut point of clips.</p>
<p>[Reset Pan Settings when Audio Clips are Moved to Other Tracks]</p>	<p>When an audio clip has been moved or copied to another track, the pan setting is reset aligned with the move destination track. For example, when a clip on the A1 track has been moved to the A2 track, the pan that was set on the A1 track is reset on the A2 track with the L and R sides inverted.</p>
<p>[Snap Event]</p>	<p>Enable the snap function. Check the event to be used as the snap point. When [Snap to Events Inside the Selected Area] is checked, all edit points of the clip in the selection area are snapped to.</p>

[Default]	Change the default setting for the editing mode when creating a new project file. Switching the Mode when Placing/Moving Clips ► P219
[Waveform]	Set the display method for the waveform of the timeline to either [Log (dB)] or [Linear (%)].
[Clip Timecode]	Display the checked timecode on the clip.
[Clip Thumbnail]	Display the thumbnails of In/Out points at the clip edge on the timeline. Select [All] to display thumbnails in succession. To hide thumbnails, uncheck this item. [Alt] + [H]

4 Click [OK].

You can continue to set other items by clicking [Apply].

[Match Frame]

Set the search direction or track.

- 1 Click [Settings] on the menu bar, and click [User Settings].
- 2 Click the [Application] tree, and click [Match Frame].
- 3 Set each item.

[Search Direction]	Select the direction for searching clips when [Match Frame (Player to Recorder)] is clicked. After searching to the end, the search resumes from the beginning.
[Target Tracks]	Specify the track to be searched. Each track can be specified by selecting [Choose Tracks] or [Selected Tracks].
[Transition]	When you execute a match frame at the point where a transition is set, set whether to use a front side clip or back side clip.

Match Frame ► P291

4 Click [OK].

You can continue to set other items by clicking [Apply].

[Background Job]

Set background processing during playback.

- 1 Click [Settings] on the menu bar, and click [User Settings].
- 2 Click the [Application] tree, and click [Background Job].
- 3 Set each item.

[Default Settings for Background Job]	[Pause Background Jobs During Playback] Check this item to pause the execution of the job when the Player or timeline is played back during execution of a background job.
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Note

- Copying is paused depending on settings even if multiple drives are connected and the drive that is copying is different from the drive that is playing back.

4 Click [OK].

You can continue to set other items by clicking [Apply].

Proxy Mode Settings

Set operations in the proxy mode.

- 1 Click [Settings] on the menu bar, and click [User Settings].
- 2 Click the [Application] tree, and click [Proxy Mode].
- 3 Set each item.

[Proxy Mode]	<p>[When there is No Proxy, Use HiRes] Check this item to use high-resolution when there are no proxies in the clip.</p> <p>[Automatically Generate Proxy] Check this item to generate a proxy automatically in the background when no proxies are found when the proxy mode is set.</p>
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- 4 Click [OK].
- You can continue to set other items by clicking [Apply].

 **Note**

- When both [When there is No Proxy, Use HiRes] and [Automatically Generate Proxy] are unchecked, operation is as follows:
 - When the proxy mode is set, clips without a proxy become offline clips.
 - All clips become offline clips when a project file from which only the proxy has been exported by the export function of the project is opened on a PC that does not have EDIUS Elite or EDIUS Pro license.

[Project file]

Set project file save destinations, backup/auto save, and other settings.

- 1 Click [Settings] on the menu bar, and click [User Settings].
- 2 Click the [Application] tree, and click [Project file].
- 3 Set each item.

[Project File]	<p>[Project File Folder] Change the folder currently selected as the save destination for project files. Select the folder from the [Browse For Folder] dialog box displayed by clicking [Browse].</p> <p>[File Name] Change the default project file name that is given when a new project is created. To rename the file, enter a new name in the text box.</p>
[Recent Project]	<p>[Show the MRU List] Display the list of history files from the [Recent Project] list in the [Start Project] dialog box, or by clicking the [Open Project] list button, or by clicking [File] on the menu bar → [Recent Project]. Set the number of history files to display by [Number of Files].</p>
[Backup]	<p>[Destination] Check this item to automatically create a backup file. When [Project Folder] is checked, a backup file is saved in “Project” → “Backup” in the project folder. When [Select a Folder] is checked and [Browse] is clicked, another save destination can also be specified. In this case, the backup file will be saved in “specified save destination” → “project name” → “Backup”.</p> <p>[Number of Files] Set the maximum number of backup files that are created.</p>

[Auto Save]	<p>[Destination] Check this item to automatically save project files. Check [Project Folder] to save an auto save file in “Project” → “AutoSave” in the project folder. When [Select a Folder] is checked and [Browse] is clicked, another save destination can also be specified. In this case, the backup file will be saved in “specified save destination” → “project name” → “AutoSave”.</p> <p>[Number of Files] Set the maximum number of auto save files that are created.</p> <p>[Interval] Specify the time interval for executing auto-save.</p> <p>[Delete All Auto Save Files when the Project File is Saved.] Check this item to delete the auto save file after the project file is saved.</p>
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4 Click [OK].

You can continue to set other items by clicking [Apply].

[Other]

Set how to display the history file or set existing titlers.

- 1 Click [Settings] on the menu bar, and click [User Settings].**
- 2 Click the [Application] tree, and click [Other].**
- 3 Set each item.**

[Recent clip]	<p>[Show the Recently Used List] Click [File] on the menu bar → [Recent clip] to display the list of history clips. Set the number of history clips to display by [Number of Files].</p> <p>[Show Thumbnail in the MRU List] Click [File] on the menu bar → [Recent clip] to display thumbnails. To display thumbnails, select the size from [Large] or [Small].</p>
[Save Window Positions]	Reproduce the last window and palette positions at the next start-up.
[Show Tooltip]	Displays the tooltip when the mouse cursor is moved over effect names.
[Create Waveform cache when registering clip]	Check this item to create waveform cache (waveform representation of audio) when registering a clip.
[Create Waveform cache residing on removable and network drive into Project folder]	Check this item to copy wave form cache (waveform representation of audio) on the removable drive or network drive to the project folder.
[Player Format]	Select the format ([Source Format]/[Timeline Format]) for the Player to be used in file playback. On HD video monitors, SD signals may not be displayed.
[Default Titler]	Select the titler (software for creating titles) that is started up when [Create Title] for the bin or timeline is clicked.

4 Click [OK].

You can continue to set other items by clicking [Apply].

[Preview]

Set up display of the preview window.

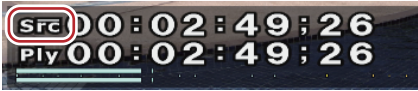
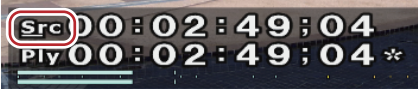
[Playback]

Set the preliminary operation time during playback or playback operation.

- 1 Click [Settings] on the menu bar, and click [User Settings].**

2 Click the [Preview] tree, and click [Playback].

3 Set each item.

[Preroll]	Set preliminary operation (preroll), for example, when playing back near the timeline cursor or when starting recording on a voice recorder. <i>Playing Back the Area around the Timeline Cursor</i> ▶ P290 <i>Addition of Speech with Voice Over</i> ▶ P413
[Continue Playback when Editing]/[Continue Playback when Adding to the Timeline from Player]/[Continue Playback when Trimming Clip]	Continue playback even when each editing operation is executed during timeline playback.
[Show Correct Frame when Scrubbing]	Display the image of the specified frame at all times even while scrubbing (dragging the timeline cursor with the mouse). When this item is unchecked, some of the frame images are displayed skipped. This setting is effective when scrubbing MPEG files or Windows Media Video files.
[Combine Filter Layers and Track Layers (for effect settings)]	Check this item to display composite clips to which effects are applied when previewing in the effect setting dialog box. For example, if this item is checked, the composite image of V1 and V2 video will be displayed when you open the setting dialog box for the video filter that is applied to the V1 track after placing clips in the V1 and V2 tracks. If this item is unchecked, only the image of the V1 track is displayed. <i>Setting Effects</i> ▶ P325
[Output Timecode]	Select the timecode that is output when outputting files or tapes.
[Source Timecode Priority]	When the source timecode is output or displayed, set the track to display the timecode for from the tracks that have clips with timecode information placed on them, including T tracks. [Upper Track]  [Lower Track] 
[Source audio pass through and ancillary data priority]	When exporting audio bitstream or ancillary data (including closed caption), set the track to export from the tracks on which the clips with those information are placed (including T track). * The ancillary data playback is supported only when STORM 3G ELITE or STORM 3G is used.

 **Note**

- Even when [Lower Track] is selected in [Source Timecode Priority], the source timecode of the lower track is not displayed if the transparency of the upper track is not set (i.e. transparency is 100%).

4 Click [OK].

You can continue to set other items by clicking [Apply].

[Monitor]

Set the display content in full screen view on the monitor or in stereoscopic edit mode.

1 Click [Settings] on the menu bar, and click [User Settings].

2 Click the [Preview] tree, and click [Monitor].

3 Set each item.

Once the display content of each monitor is set, no further setting is needed from the next time.

[No.]	Enter the monitor number. Monitor numbers from "2" onwards are external monitors.
[Full Screen Preview Contents]	<p>[Full Screen Preview Contents] Displays content of the full screen view. Click the list to display a menu and change display content for each monitor.</p> <p>[No full screen preview] Disable the full screen view.</p> <p>[Player/Multicam Source] Display the Player screen in full screen view. In the multicam mode, the videos of each track with camera assigned are displayed in full screen view.</p> <p>[Recorder/Selected Camera] Display the Recorder screen in full screen view. In the multicam mode, the video of the selected camera is displayed in full screen view.</p> <p>[Auto] Display the same screen as video output in full screen view.</p>
[Stereoscopic flip horizontal]	Check this item to display video with the L side (for left eye) and R side (for right eye) swapped.
[Using NVIDIA 3D VISION]	If your system supports NVIDIA 3D VISION, check this item to enable the stereoscopic view ([L/R Dual Stream])using NVIDIA 3D VISION on the primary monitor.
[Monitor Check]	Click this item to display the monitor number on the respective monitor.

**Note**

- NVIDIA 3D VISION can be used only in D3D full screen mode.
It takes a while to display the stereoscopic video on the monitor.
- 3D VISION is applied only to the primary monitor.

4 Click [OK].

You can continue to set other items by clicking [Apply].

[On Screen Display]

Set display of the timecode and level meter on the status area.

1 Click [Settings] on the menu bar, and click [User Settings].

2 Click the [Preview] tree, and click [On Screen Display].


3 Set each item.

[Show Normal Edit]/[Show Trim]/ [Show Export]	Check the timecodes or information to display at each operation.
[View]	<p>[Position] Click the display position inside the monitor on the status bar to select the position.</p> <p>[Size] Select the font size of the status bar.</p> <p>[Background] Check this item to display the background on the status bar display area.</p>
[Select Source Information]	For captured clips, display information such as recording date. Select the information to display from the list.

<p>[Show Level Meter]</p>	<p>Switch the show/hide setting for the level meter. Click [Default] to return to the default settings.</p> <p>[Color and Threshold] Set the color and threshold value of the level meter. Click a color sample to open the [Color Select] dialog box.</p> <p>[Invert Meter at Peak] Select whether to invert the level meter when it peaks.</p>
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4 Click [OK].

You can continue to set other items by clicking [Apply].

-  • The source timecodes of muted tracks are not displayed.

[Pre-Roll Editing]

Set preroll and postroll when editing preroll.

1 Click [Settings] on the menu bar, and click [User Settings].

The [User Settings] dialog box appears.

2 Click the [Preview] tree, and click [Pre-Roll Editing].

3 Set each item.

<p>[Preroll Time]</p>	<p>Set the preliminary operation time (preroll) when editing preroll.</p>
<p>[Postroll]</p>	<p>Set the preliminary operation time (postroll) when editing preroll.</p>

Previewing Cut Switch Points (Preroll Edit (Preview)) ▶ P232

Placing Clips while Checking Cut Switch Points (Preroll Edit (Rec)) ▶ P232

4 Click [OK].

You can continue to set other items by clicking [Apply].

[Overlay]

Set the screen refresh rate, zebra preview (warning indication for brightness level) and display of the safe area.

1 Click [Settings] on the menu bar, and click [User Settings].

2 Click the [Preview] tree, and click [Overlay].

3 Set each item.

<p>[Update Frequency]</p>	<p>Set the refresh rate for the video preview screen. When displaying interlaced images, movement of subjects may be smoothed and accidents (such as reversed field orders) can then be checked visually by refreshing the screen at the field rate (twice as fast as the frame rate). (There is no difference between both settings when displaying progressive images.)</p> <p>[Field] For example, in the case of 29.97 fps frame rate, the screen is refreshed 59.94 times per second.</p> <p>[Frame] For example, in the case of 29.97 fps frame rate, the screen is refreshed 29.97 times per second.</p>
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[Zebra Preview]	<p>A striped pattern is displayed at relevant parts of the screen when the brightness level set at this item is exceeded.</p> <p>[Over] Set the upper limit of the brightness level. Select [Color] of the stripe pattern that is displayed when the upper limit of the brightness level is exceeded.</p> <p>[Under] Set the lower limit of the brightness level. Select [Color] of the stripe pattern that is displayed when the lower limit of the brightness level is exceeded or brightness falls to 0 IRE or below.</p>
[Show Safe Area]	<p>Display the safe area on the Player and Recorder. Switch the show/hide setting for [Action Safe] and [Title Safe]. The action safe area can be set as desired.</p> <p>[Guide Lines for 16:9 Monitor] Select the guideline to display when the frame aspect ratio of the video is 16:9. When [Darken the Outside] is checked, the outside of the guideline is displayed darker.</p>

4 Click [OK].

You can continue to set other items by clicking [Apply].

[User Interface]

Set assignments for operation buttons, timecode display, bin display items, and keyboard shortcuts.

Operation Button Settings ▶ P119

Control Area Settings ▶ P134

Changing Keyboard Shortcut Assignments ▶ P140

Bin Detailed Display Item Settings ▶ P137

Changing the Color of Operation Screens ▶ P139

[Source]

Set operations when capturing sources.

[Duration]

Set the duration when still image clips or title clips, for example, are placed.

- 1 Click [Settings] on the menu bar, and click [User Settings].
- 2 Click the [Source] tree, and click [Duration].
- 3 Set each item.

[Still Image]	<p>Set the default duration when placing still image clips.</p> <p>[Add between In/Out] Check this item to place color bars, color mattes and title clips for focus tracks (other than title tracks) between In and Out points on the timeline. Note, however, that this setting is not applied when those are placed by dragging and dropping.</p>
[Title]	<p>Set the default duration when placing title clips.</p> <p>[Automatically Add Title Mixer] Check this item to add the default title mixer automatically when the title is inserted into the track.</p> <p>[Add between In/Out] Check this item to place color bars, color mattes and title clips for focus tracks (title tracks only) between In and Out points on the timeline. Note, however, that this setting is not applied when those are placed by dragging and dropping.</p>

[V-mute]	Set the default duration for V-mute. The V-mute function eliminates audio in individual frame units, and is ideal for deleting small audio noise.
[Rubber Band Point]	Set how many frames inside the original two rubber band points the additional rubber band points will be added when the mouse is dragged between two rubber band points with [Alt] on the keyboard held down.

4 Click [OK].


You can continue to set other items by clicking [Apply].

[Automatic Correction]

Set whether to adjust the frame rate when importing sources.

- 1 Click [Settings] on the menu bar, and click [User Settings].**
- 2 Click the [Source] tree, and click [Automatic Correction].**
- 3 Set each item.**

[Adjust Frame Rate when Loading Clip]	Automatically adjust the frame rate of clips when importing the clips to bin (or timeline). Playback no longer requires frame rate conversion, reducing the load on playback operation. The frame rate is adjusted only when the project settings and the clip have the following pairing: <ul style="list-style-type: none"> • 29.97 : 30.00 • 59.94 : 60.00 • 23.976 : 24.00
[Color Range for RGB Clip]/[Color Range for YCbCr Clip]	Select which kind of color expression range is assumed for RGB color space sources and YCbCr color space sources. When [Super White] is selected, RGB values (16, 16, 16) and RGB values (235, 235, 235) are handled as sources corresponding to 0 IRE black and 100 IRE white, respectively. When [White] is selected, RGB values (0, 0, 0) and RGB values (255, 255, 255) are handled as sources corresponding to 0 IRE black and 100 IRE white, respectively.
[Normalize]	Set the sampling time used for calculating normalized values.
[Subclip]	Set the margins to add when creating subclips.

-  • The frame rate of the clips can be changed in the [Clip Properties] dialog box for those clips.
Correcting Properties ► P196
- The default color expression range set at [Color Range for RGB Clip] or [Color Range for YCbCr Clip] can be changed according to the source.
Correcting Properties ► P196

4 Click [OK].

You can continue to set other items by clicking [Apply].

[Restore Offline Clip]

Set restoration of offline clips.

- 1 Click [Settings] on the menu bar, and click [User Settings].**
- 2 Click the [Source] tree, and click [Restore Offline Clip].**
- 3 Set each item.**

[Margin]	When capturing only necessary areas (parts used in the timeline), set the margin to use for optimization (combining of capture areas). When multiple offline clips are placed in closer position than the docking margin time, they are combined into 1 clip (i.e optimized).
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[Restore Default]	Set the default displayed restoration method for [Restoration Method] in the [Restore and Transfer Clips] dialog box when opening project files and importing EDL. <i>Restoring Offline Clips</i> ► P66
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4 Click [OK].

You can continue to set other items by clicking [Apply].

[Partial Transfer]

Set partial transfer.

Automatic Partial Transfer at Addition to the Timeline/Registration to the Bin ► P171

[Input Controller]

Fader/Jog Controller

Assign keys to controller buttons when using the option fader controller and jog controller.



Note

- When you set Behringer BCF2000 for this first, a message will appear to notify you that the preset must be installed. Select the preset No. to be installed from the [Preset No.] list, and click [Next]. Click [Start] to start the installation. This operation is needed only once and need not be performed from the next time onwards.

- Click [Settings] on the menu bar, and click [User Settings].
- Click the [Input Controller] tree, and click the fader controller or jog controller to be used.
- Set each item.

Example:

For [MKB-88 for EDIUS]

Controller display	<p>[Control] tab Displays an overview of the controller. Buttons assigned an operation are displayed in yellow. If you click a button to assign an operation to, the [Select Operation] dialog box appears.</p> <p>[List] tab Displays the buttons, assigned operations, and repeat enable/disable setting in a list. Click the list and [Assign] to open the [Select Operation] dialog box. Click [Not Assign] to cancel operation assignments. <i>[Select Operation] Dialog Box</i> ► P99</p>
[Import]/[Export]	Import and export controller settings.
[Default]	Return settings to their defaults.

4 Click [OK].

You can continue to set other items by clicking [Apply].

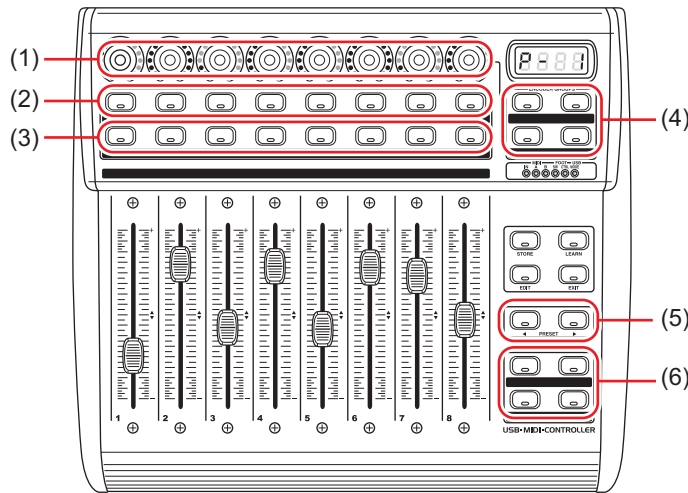
[Select Operation] Dialog Box

[Category]	Select operation categories from the list to narrow down the items.
[Filter]	Enter a keyword to narrow down the items.
Operation list	Displays operations available for assignment. You can also assign operations by dragging operations and dropping onto the buttons in the [Control] tab or the list in the [List] tab.
[Use Key Repeat]	Check this item to repeatedly perform an operation when a key is held down.

[Find Short Cut]

Click this item and press any key on the keyboard to select the shortcut operation assigned to the key.

How to Use the Behringer BCF2000



(1)	Encoder knobs	Encoder knobs can be used as buttons. Select the operation that is performed when a button is pressed by the encode selection buttons. No functions are assigned to the rotation direction of the encoder knobs.
(2)	Upper buttons	These buttons function as the SELECT button for selecting the learning mode.
(3)	Lower buttons	These buttons are used for emulating touch operations. The touch sensor part for the fader is emulated. Press a button to set a break state, and release the button to set a release state.
(4)	Encode selection buttons	Upper left: SELECT Upper right: AUX Lower left: SOLO Lower right: MUTE
(5)	Preset selection buttons	Select a preset No. To use this function from EDIUS, presets must be installed.
(6)	Function buttons	These buttons can be customized with key assignments.

Editing Environment Management

Registering Profiles and Switching Editing Environments

You can register editing environments such as window layouts, system settings and user settings as profiles, and switch between these registered environments for use.

Registering Profiles

If you register profiles in advance, you can switch the following settings for each individual profile:

- Window layout
- Preview window display in stereoscopic edit mode
- User settings*
- State of [Transfer to Project folder] checkboxes in the [Open] dialog box that is displayed when clips are imported to the bin
- Default effect and default duration settings of transitions, audio cross fades and title mixers
- States of the [Import Bin]/[Copy clips in project folder]/[Copy rendered files] checkboxes in the [Import Sequence] dialog box
- Settings in the [Layouter] dialog box that is used for adjusting the position of title clips
- Customized [Effect] palettes

* Settings made at [Number of Files] of [Recent Project] in [Project file] are not included in profiles.

Note, however, that the following settings and information are not included in profiles:

- Project presets
- Preset exporters

1 Click [Settings] on the menu bar, and click [System Settings].



Note

- If you use the restricted user profile, the system settings cannot be changed.

Restricted user profile ▶ P104

2 Click the [Application] tree, and click [Profile].

The [Profile] screen appears.

[Profile] Screen ▶ P101

3 Click [New Profile].

The [Profile] dialog box appears.

[Profile] Dialog Box ▶ P102



- Profiles can also be set as read-only or for restricted user in the [Start Project] dialog box. To do this, select and right-click the profile in the [Start Project] dialog box, and click [Read only] or [Restricted User].

[Start Project] Dialog Box ▶ P17



Note

- Items cannot be unchecked while the default icon folder is displayed even by clicking the [Default Icon Folder] checkbox in the [Select Icon] dialog box. The display returns to the default icon folder display by clicking [...] and checking while a different folder is displayed.

4 Set each item.

5 Click [OK].



The profiles you created are displayed in the [Profile] screen.

[Profile] Screen

Profile list	Display a list of currently registered profiles. The list can be resorted by dragging the icons.
[New Profile]	Register a new profile.

[Copy]	Duplicate the selected profile. <i>Duplicating Profiles</i> ▶ P102
[Modify]	Rename selected profiles or change their icons. <i>Changing Profiles</i> ▶ P102
[Delete]	Delete the selected profile. <i>Deleting Profiles</i> ▶ P102
[Profile]	Select the profiles to display in the profile list.
[Shared Server]	Select the folder in which the shared profile is stored. <i>Using Shared Profiles on Local Terminals</i> ▶ P105

[Profile] Dialog Box

[Name]	Enter the name of the profile.
[Change Icon]	Click this item to display the [Select Icon] dialog box and select the profile icons. To use any image you like, click [...] in the [Select Icon] dialog box, and select a file.
[Read only]	This is a read-only profile. The settings of profiles that are changed while they are still in use are not overwritten. Also, read-only profiles cannot be renamed, and their icons cannot be changed or deleted. The  icon is displayed at the top right of read-only profiles. <i>Profile Types</i> ▶ P104
[Restricted User]	This is a restricted user profile. The system settings cannot be changed while the restricted user profile is in use. The  icon is displayed at the top right of restricted user profiles. <i>Profile Types</i> ▶ P104

Changing Profiles

You can rename registered profiles or change their icons.

1 Select a profile in the profile list, and click [Modify].

[Profile] Screen ▶ P101

 **Alternative**

- Right-click a profile in the profile list, and click [Modify].

2 Change the settings, and click [OK].

Duplicating Profiles

Duplicate registered profiles.

1 Select a profile in the profile list, and click [Copy].

[Profile] Screen ▶ P101

The duplicated profile appears in the profile list.

 **Alternative**

- Right-click a profile in the profile list, and click [Copy].

Deleting Profiles

Delete registered profiles.

1 Select a profile in the profile list, and click [Delete].

[Profile] Screen ▶ P101

Alternative

- Right-click a profile in the profile list, and click [Delete].

2 Click [Yes].

Note

- You cannot delete the profile currently in use (current setting).
-


Switching Profiles

Switch the profile while editing a project, and continue editing as you are.

1 Click [Settings] on the menu bar, and click [Change Profile].

The [Change Profile] dialog box appears.

2 Select a profile and click [OK].

-  • The profile currently in use is displayed at [Current profile].

Note

- Operations such as registering new profiles and changing profiles are not available in the [Change Profile] dialog box.
-

Importing Profiles (Import)

Import profiles.

Note

- Some profile settings are not reflected when profiles created by an old version of EDIUS are imported.

1 Right-click a profile in the profile list, and click [Import].

[Profile] Screen ▶ P101

2 Select a file, and click [Open].

The imported profile is displayed in the profile list.

Exporting Profiles (Export)

Export profiles.

1 Right-click a profile in the profile list, and click [Export] → [Selected profile].

[Profile] Screen ▶ P101

Click [All] to export all registered profiles.

2 Select a save destination and click [OK].

Managing Editing Environments on the Server

Manage profiles on the server when using EDIUS on multiple terminals. The profile managed on the server (i.e. shared profile) is shared between and used by each of the terminals.

Creating a Shared Profile

To share a profile on multiple terminals, install EDIUS on the management server or PC, and create a shared profile using the profile management tool.

Note

- First, install EDIUS on the server or PC where the shared profile is to be managed.
 - While the profile management tool is in use, EDIUS on all terminals that are referencing the profile management server must be ended.
-

1 Double-click ConfigProfile.exe in the EDIUS 6.5 folder of the hard disk where EDIUS is installed.

- Normally, the “EDIUS 6.5” folder is located in “C drive” → “Program Files” → “Grass Valley”.

The profile management tool will start up.

2 Click [...] to specify the destination to save the shared profile to, and click [OK].

3 Click [Config], and click [OK].

The [Change Profile] dialog box appears.

New profiles can be registered, changed, deleted, duplicated, imported, and exported in the same way as system settings.

Registering Profiles and Switching Editing Environments ▶ P101

4 Create the shared profile, and click [Close].

5 Click [Close].

To use the shared profile on each terminal, the references and other information of the shared profile must be set in the system settings on each terminal.

Using Shared Profiles on Local Terminals ▶ P105

Profile Types

Local profile



This is the profile created on each local terminal. The settings of profiles that are changed while they are in use are overwritten.

Read-only profile



This is a read-only profile. The settings of profiles that are changed while they are still in use are not overwritten. Also, read-only profiles cannot be renamed, and their icons cannot be changed or deleted.

Restricted user profile



This is a restricted user profile. The system settings cannot be changed while the restricted user profile is in use.

Shared profile



This is the profile created using the profile management tool. The settings of profiles that are changed while they are in use are overwritten as long the profile is not changed to read-only. Also, shared profiles cannot be renamed, and their icons cannot be changed or deleted on local terminals.

Shared profile in offline state



This is the shared profile in an offline state. This is displayed when a connection cannot be made to the reference server from the local terminal that was using the shared profile.

- When a shared profile is in use, profile settings sometimes cannot be saved to the server if the connection to the reference server is broken off midway or when another terminal is executing save processing on the same shared profile. When the connection to the server is recovered when EDIUS is next started up, if the shared profile with the same name is still in the server, a message will appear to confirm whether the profile settings, which could not be saved in the last session, should be written back to the server at the current session.

Using Shared Profiles on Local Terminals

Enable use of the shared profile on each terminal.

- 1 Click **[Settings]** on the menu bar, and click **[System Settings]**.



Note

- If you use the restricted user profile, the system settings cannot be changed. To change system settings, the profile must be switched.

Switching Profiles ► P103

- 2 Click the **[Application]** tree, and click **[Profile]**.

- 3 Select **[Shared Server]** or **[Local and Shared Server]** in **[Profile]**.

If you select **[Shared Server]**, only the shared profile can be used. New profiles on local terminals cannot be registered, changed, deleted, duplicated, and imported.

If you select **[Local and Shared Server]**, both local profiles and the shared profile can be used.

If you select **[Local]**, only local profiles can be used.

- 4 Click **[...]** at **[Shared Server Folder]** to specify the destination to reference the shared profile, and click **[OK]**.

Specify where to save the shared profile that you created using the profile management tool.

- 5 Click **[Sync]**, and click **[OK]**.

The shared profile is displayed on the **[Profile]** screen synchronized with the profiles at the network references.

External Device Management

Registering External Devices that Interact with Device Presets

Register and manage the connection information of external devices (e.g. cameras, decks, web cameras, microphones) used for capture or tape output, or Grass Valley products as device presets.

Registering device presets in advance allows you to simply call up the device preset when capturing sources or outputting tapes to ensure that input/output is performed smoothly.

Be sure to pre-register device presets before capture or tape output.

Registering Device Presets

Register connection information for external devices used for capture or tape output or Grass Valley products for use in input and output as device presets.

Before registering device presets, connect the external device (e.g. camera) used for input/output to your PC, and turn it on.

Connecting to External Devices ▶ P145



- External devices in which file-based video or audio is recorded (e.g. CD/DVD, AVCHD camera, removable media such as SD memory card, XDCAM EX device) are not required to be registered as device presets.

1 Click [Settings] on the menu bar, and click [System Settings].



Note

- If you use the restricted user profile, the system settings cannot be changed.

Restricted user profile ▶ P104

2 Click the [Hardware] tree, and click [Device Preset].

The [Device Preset] screen appears.

[Device Preset] Screen ▶ P106

3 Click [New].

[Preset Wizard] will start up.



Alternative

- Right-click a blank area in the device preset list, and click [New].

4 Enter the name of the device preset.

5 Click [Select Icon], select the icon image, and click [OK].

To use any image you like, click [...] and select a file.

6 Click [Next].

The [Input H/W, Format Settings] screen appears.

[Input H/W, Format Settings] Screen ▶ P107

7 Set each item and click [Next].

The [Output H/W, Format Settings] screen appears.

[Output H/W, Format Settings] Screen ▶ P110

8 Set each item and click [Next].

9 Confirm the details, and click [Done].

The icon of the newly created preset is displayed in the device preset list.

[Device Preset] Screen

Device preset list	Displays a list of device presets. The list can be resorted by dragging the icons. The list is not displayed when there are no device presets registered.
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[New]	Create new device presets.
[Modify]	Change the settings of the selected device preset. Changing Device Presets ▶ P112
[Delete]	Delete the selected device preset. Deleting Device Presets ▶ P112

[Input H/W, Format Settings] Screen

The following explains settings for two instances, when using the IEEE1394 terminal provided as standard on the PC for input and when inputting from a DirectShow capture device.

For more information on settings when using Grass Valley products for input, see the user manual included with the product.

[Interface]	Click this item to select the interface to use for input. When connecting an HDV device to the IEEE1394 terminal provided as standard on a PC for input, select [Generic HDV]. When connecting a DV device to the IEEE1394 terminal provided as standard on a PC for input, select [Generic OHCI]. To input from a DirectShow base video capture device or audio capture device, select [DirectShow Capture]. When the interface to use for input is selected from the list, the content of each of the items such as [Stream] switches to match the selected interface. To disable use of an interface for input, select [Not Select].
[Stream]	When [Generic HDV] or [Generic OHCI] is selected at [Interface], the stream is fixed to [Input]. You can make input settings by clicking [Settings]. [Settings - Input Settings] Dialog Box (Generic OHCI/Generic HDV) ▶ P108 When [DirectShow Capture] is selected at [Interface], select your device. The displayed device name varies depending on your product. You can make device settings by clicking [Settings]. When your device is a video capture device, you must set the associated audio capture device. [Settings - Device Setting] Dialog Box (DirectShow Capture) ▶ P108
[Video Format]	Select the video format for the source to capture.
[Codec]	Select the codec to use for capture depending on the video format. You can make codec settings by clicking [Settings]. [Settings - Grass Valley HQ]/[Settings - Grass Valley HQX] Dialog Box ▶ P108 [Settings - MPEG2 Custom] Dialog Box ▶ P109 [Settings - XDCAM HD422 Compatible] Dialog Box ▶ P109 [Settings - XDCAM EX Compatible] / [Settings - XDCAM HD Compatible] Dialog Box ▶ P109 [Settings - MPEG IMX] Dialog Box ▶ P109
[File Format]	Select the file format of the captured clip depending on the video format.
[Proxy File]	Select a file (only high-resolution/high-resolution and proxy) to be created when capturing.
[Audio Format]	Select the audio format of the source to capture depending on the video format.
[Audio Input]	Select the audio input interface depending on the video format.
[Convert 16Bit/2ch]	Select whether to import audio by 16 bits/2ch depending on video format.
[Stereoscopic]	Select [Separate L/R Clips] to capture the L side and the R side of the input video separately using the batch capture function. The recorded L and R side files are registered to the bin as stereoscopic clips. (The [Separate L/R Clips] setting is enabled while batch capturing.)

* Selectable items differ according to the setting.

[Settings - Input Settings] Dialog Box (Generic OHCI/Generic HDV)

Input preview	Displays the video from the input device when EDIUS recognizes the input device.
[Setup Level]	Set the setup level (black level). 0 IRE is used in Japan, and 7.5 IRE is used in North America.
[Use cueup command if the DV deck supports it]	Check this item to help speed up the cueup operation if the deck has the CueUp function.
[Capture Preroll time]	Set the preliminary operation time (preroll) from the capture position.
[Default]	Return the settings of items marked with * to their defaults.

[Settings - Device Setting] Dialog Box (DirectShow Capture)

[Video Device]	Displays the video capture devices connected to the system. Click [Video Setting] to display detailed settings depending on your video capture device. For more information on settings, see the manual for your device.
[Audio Device]	Displays the audio capture device connected to the system. Select the audio capture device corresponding to the video capture device from the list. To cancel this setting, select [Not assigned].
[Set video frame rate from audio sampling rate.]	Check this item to calculate the frame rate from the number of samples and duration time of the audio. Uncheck this item to calculate the frame rate from the frame rate provided by the video capture device, and convert the audio sampling rate to match the frame rate.

[Settings - Grass Valley HQ]/[Settings - Grass Valley HQX] Dialog Box

Codec settings	<p>[Online(SuperFine)] This item can be selected for a Grass Valley HQX codec. This setting provides the highest image quality, though the file size increases. Select this when importing at high image quality is needed. This item cannot be selected for a Grass Valley HQ codec.</p> <p>[Online(Fine)] This setting provides high image quality, though the file size increases. Select this when importing at high image quality is needed.</p> <p>[Online(Standard)] Normally, you can get sufficient image quality at this setting.</p> <p>[Offline] Select this item to encode at a lower bitrate.</p> <p>[Custom] [Q] and [Max size] can be adjusted. [Q] adjusts image quality. Set within the range 4 to 19 (0 to 18 in the case of a Grass Valley HQX). Setting a smaller value results in higher image quality. [Max size] sets the maximum bitrate. You can set to limit the file size that increases inadvertently as a result of excessive noise in the video. Setting value "100" % means the same bitrate before codec compression. For example, 100% for 1440×1080 59.94i is a bitrate of approximately 750 Mbps. To set the upper limit to 200 Mbps, set "27" % as the maximum size.</p>
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 **Note**

- The [Settings - Grass Valley HQ]/[Settings - Grass Valley HQX] dialog box shows the settings when importing video by Grass Valley HQ/Grass Valley HQX capture. These are not the settings for Grass Valley HQ/Grass Valley HQX file export or for rendering when Grass Valley HQ/Grass Valley HQX is selected in the project settings.

Importing Sources from DV Tape (Capture) ▶ P145

[Settings - MPEG2 Custom] Dialog Box

[Bit Rate]	Select a bitrate type. [CBR] sets a fixed transfer rate, allocating a fixed number of bits during the encoding process. Select a bitrate from the [Average] list. You can also enter a value directly. [VBR] sets a variable transfer rate, altering the number of assigned bits according to the complexity of the movement or image quality. Compared with [CBR], the media volume can be used more efficiently, and this enables more consistent image quality overall. Select a bitrate from the [Average] and [Max] lists. You can also enter a value directly.
[Quality/Speed]	Select quality from the list.
[GOP Structure]	For MPEG, a certain number of frames is considered as a group, and operations such as compression/enlargement and cut editing are performed on a GOP basis. A GOP comprises "I frame", "P frame" and "B frame". The I frame allows images to be reproduced independently, the P frame is for recording and reproducing only the differences with the preceding image, and the B frame reproduces images from the differences in the preceding and following images. Select I, P and B frame patterns of the GOP from the list. Normally, select [IBBP]. [I-Frame Only] is comprised of only I-pictures. Editing is made easier, but the amount of data increases in size.
[Picture count]	Set the number of frames included in a group.
[Closed GOP]	Check this item to complete information within each GOP. Although the amount of data increases, the video can be re-edited using software that supports GOP-based editing. Normally, leave this item unchecked.
[Chroma Format]	Select a YUV pixel format from the list.
[Profile/Level]	Select a profile & level. If [Chroma Format] is [4:2:0] and [4:2:2], the profile will be set to Main Profile and 422Profile, respectively. The level for SD image quality will be Main Level, and the level for HD image quality will be High Level. The profile & level changes according to the format selected in [Chroma Format].
[VBV Buffer Size]	Select the setting method for the VBV buffer upper limit value. When [Default] is selected, the VBV buffer upper limit value is set using current settings.

[Settings - XDCAM HD422 Compatible] Dialog Box

[Quality/Speed]	Select quality from the list.
[Closed GOP]	Check this item to complete information within each GOP. Although the amount of data increases, the video can be re-edited using software that supports GOP-based editing. Normally, leave this item unchecked.

[Settings - XDCAM EX Compatible] / [Settings - XDCAM HD Compatible] Dialog Box

[Bit Rate]	Select a bitrate from the list.
[Quality/Speed]	Select quality from the list.
[Closed GOP]	Check this item to complete information within each GOP. Although the amount of data increases, the video can be re-edited using software that supports GOP-based editing. Normally, leave this item unchecked.

[Settings - MPEG IMX] Dialog Box

[Bit Rate]	Select a bitrate from the list.
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[Output H/W, Format Settings] Screen

The following explains settings when the IEEE1394 terminal provided as standard on the PC is used for output. For more information on settings when using Grass Valley products for output, see the user manual included with the product.

[Interface]	Click this item to select the interface to use for output. When connecting a DV device, for example, to the IEEE1394 terminal provided as standard on a PC for output, select [Generic OHCI]. When the interface to use for output is selected from the list, the content of each of the items such as [Stream] switches to match the selected interface. When the output interface is not to be used, or when outputting to an HDV device or when when outputting tape to a device not controlled by a deck, select [Not Select].
[Stream]	When [Generic OHCI] is selected at [Interface], the stream is fixed to [Output]. You can make output settings by clicking [Settings]. [Settings - DV Device Setting] Dialog Box (Generic OHCI) ▶ P110
[Video Format]	Select the video format to output from the list.
[Audio Format]	Select the audio format to output from the list depending on the video format.
[Audio Output]	Select the audio output interface depending on the video format.
[Stereoscopic Separate L/R Clips]	To export the video of the L side (for left eye) and the R side (for right eye) in the project created in the stereoscopic edit mode separately, select [Yes]. To export the video of the L side and the R side as a single file, select [No]. Click [Settings] at the right side of [Stream], and select a stereoscopic processing format in the [Settings - Stereoscopic Setting] dialog box.

* Selectable items differ according to the setting.

[Settings - DV Device Setting] Dialog Box (Generic OHCI)

Output preview	Displays the color bar. The color bar is also displayed at the output device if the output video format has been correctly set.
[DV Format]	Select the encode format ([DV]/[DVCAM]) of the hardware DVCODE. [Enable Real Time DV Output] Select whether to perform DV Encode processing. When this item is checked, EDIUS always performs DV Encode processing. To mute audio during processing, check [Mute DV Audio Output].
[SyncRec Start Timing]	Set the timing adjustment at the beginning of playback on your PC as a number of frames.
[SyncRec End Timing]	Set the timing adjustment when stopping recording on the deck as a number of frames.
[Record Position]	Set position adjustment when starting to record as a number of steps.
[Setup Level]	Set the setup level (black level). 0 IRE is used in Japan, and 7.5 IRE is used in North America.
[Use cueup command if the DV deck supports it]	Check this item to help speed up the cueup operation if the deck has the CueUp function.
[Default]	Return the settings of items marked with * to their defaults.

[Settings - Stereoscopic Setting] Dialog Box (Generic OHCI)

[Stereoscopic Mode]	Select a stereoscopic processing format when outputting the video of the L side and the R side in the project created in the stereoscopic edit mode. When [L Only]/[R Only] is selected, export the video of either the L side or the R side. When [Side by Side]/[Top and Bottom]/[Line Interleave]/[Blend]/[Anaglyph]/[Difference]/[Split Grid] is selected, export the composite video of the L side and the R side. Stereoscopic Processing Type ▶ P135
[Follow stereoscopic preview mode]	Export the project in the same format as the preview window display in the stereoscopic edit mode. Displaying Preview Window in Stereoscopic Edit Mode ▶ P134
[Swap L/R]	Check this item to display video with the L side (for left eye) and R side (for right eye) swapped.

Registering Device Presets when Using a Grass Valley Product for Input/Output

The following explains how to register device presets when using a Grass Valley product for input/output. In the example in this section, the Grass Valley product STORM 3G is attached and used for SDI input/output. The operation procedure is basically the same also when you use other Grass Valley products. Since detailed settings items differ for each product, see the user manual included with the product.

- 1 Click [Settings] on the menu bar, and click [System Settings].



Note

- If you use the restricted user profile, the system settings cannot be changed.

Restricted user profile ▶ P104

- 2 Click the [Hardware] tree, and click [Device Preset].

Registering External Devices that Interact with Device Presets ▶ P106

- 3 Click [New].

[Preset Wizard] will start up.



Alternative

- Right-click a blank area in the [Device Preset] list, and click [New].

- 4 Enter the name of the device preset.

- 5 Click [Select Icon], select the icon image, and click [OK].

To use any image you like, click [...] and select a file.

- 6 Click [Next].

- 7 Click the list in [Interface], and select [STORM 3G].

The name of the attached product is displayed as an interface at the list at [Interface]. Select the interface to use for input.

You can make input settings by clicking [Settings] to the right of [Stream]. For more information, see the user manual included with the product.

- 8 Click the list in [Video Format], and select the video format of the source to capture.

- 9 Click the list in [Codec], and select the codec to use for capture.

Depending on the selected codec, click [Settings] to set the codec details.

[Settings - Grass Valley HQ]/[Settings - Grass Valley HQX] Dialog Box ▶ P108

[Settings - MPEG2 Custom] Dialog Box ▶ P109

[Settings - XDCAM HD422 Compatible] Dialog Box ▶ P109

[Settings - XDCAM EX Compatible] / [Settings - XDCAM HD Compatible] Dialog Box ▶ P109

[Settings - MPEG IMX] Dialog Box ▶ P109

10 If necessary, set other items and click **[Next]**.

11 Click the list in **[Interface]**, and select **[STORM 3G]**.

The name of the attached product is displayed as an interface at the list at **[Interface]**. Select an interface to use for output.

To disable use of a hardware product for output, select **[Not Select]** and proceed to step **13**.

You can make output settings by clicking **[Settings]** to the right of **[Stream]**. For more information, see the user manual included with the product.

12 Click the list in **[Video Format]**, and select the video format of the source to capture.

13 If necessary, set other items and click **[Next]**.

14 Confirm the details, and click **[Done]**.

The icon of the newly created preset is displayed in the device preset list.

Changing Device Presets

Change the settings of a registered device preset.

1 Select a preset in the device preset list, and click **[Modify]**.

[Device Preset] Screen ▶ P106

[Preset Wizard] will start up. Operations from here on are the same as step **4** in “Registering Device Presets” onwards.

Registering Device Presets ▶ P106

 **Alternative**

- Right-click a preset in the device preset list, and click **[Modify]**.

Deleting Device Presets

Delete a registered device preset.

1 Select a preset in the device preset list, and click **[Delete]**.

[Device Preset] Screen ▶ P106

 **Alternative**

- Right-click a preset in the device preset list, and click **[Delete]**.

2 Click **[Yes]**.

Duplicating Device Presets

Duplicate a registered device preset.

1 Select and right-click a preset in the device preset list, and click **[Copy]**.

[Device Preset] Screen ▶ P106

Importing Device Presets (Import)

Import device presets.

1 Right-click a blank area in the device preset list, and click **[Import]**.

[Device Preset] Screen ▶ P106

2 Select a file, and click **[Open]**.

The imported preset is displayed in the device preset list.

Exporting Device Presets (Export)

Export device presets.

1 Select and right-click a preset in the device preset list, and click **[Export]**.

[Device Preset] Screen ▶ P106

- 2 Select a save destination and click [Save].

Assigning Device Presets to Input Presets

If you assign device presets as input presets in advance, an assigned device preset can simply be called up at capture.

- 1 Select and right-click a preset in the device preset list, and click [Assign Input Preset] → [Input Preset 1] - [Input Preset 8].

[Device Preset] Screen ▶ P106

The selected device preset is assigned as an input preset, and is displayed as an input preset when [Capture] on the menu bar is clicked.



- To cancel an assignment to an input preset, right-click a blank area in the [Device Preset] list, and click [Delete assignment] → preset name.

Points About Input from VARICAM Devices

Import and edit video shot on VARICAM devices on EDIUS.

The following explains points when using VARICAM devices to input/output video.

Points About Project Settings

When [TC preset] in the project settings is set to other than “00”, the sequence of active frame information may not match the TC at stream output.

[Project Settings] (Detailed Settings) Dialog Box ▶ P39

When the frame rate of the source does not match the frame rate of the project, the pitch is altered so that the audio speed is changed to keep up with playback duration. If necessary, make adjustments in the waveform editing software or the pitch shifter of the audio filter.

Registration of Device Presets

Before using VARICAM devices to input/output video, register VARICAM devices connected to the PC via the IEEE1394 interface in advance as device presets.

To connect the AJ-HD1200A via the IEEE1394 interface, the option board must be attached.

The following explains points when registering VARICAM devices as device presets. For details about the procedure for registering device presets and other information, see “Registering Device Presets”.

Registering Device Presets ▶ P106

When setting [Video Format] at [Input H/W, Format Settings] in the Preset Wizard, refer to the explanation about each of the following formats:

1280×1080 59.94i 1440×1080 50i	When importing from DVCPRO HD standard-compliant equipment, select the format that matches the respective frame frequency setting used when the video was shot.
960×720 59.94p	Use this when capturing sources taken with VARICAM without referencing active frame information or when capturing content taken with AJ-HDX900, for example, whose format signals are 720/59.94p, 720/29.97p or 720/23.98p.
960×720 Constant Rate Shooting over 60p 960×720 Constant Rate Shooting over 59.94p	Select a format that matches the respective VARICAM frame frequency setting used when the video was shot. Only frames set with active frame information are captured.
960×720 50p	Use this when capturing content taken with AJ-HDX900, for example, whose format signals are 720/50p and 720/25p.

Points About Capture and Editing

The following explains points and precautions about capture and editing.

The capture operation procedure is the same as that for other devices connected via the IEEE1394 interface.

Importing Sources from DV Tape (Capture) ▶ P145

Shooting Video Utilizing VARICAM Features

To utilize the features of VARICAM to create good-looking slow motion and quick motion, the speed that will be required as a result of editing must be calculated in advance before shooting video. The playback speed is calculated by the following formula:

Playback speed (%) = frame rate of timeline ÷ frame rate at shooting × 100

What Are Under Crank Shooting and Over Crank Shooting?

Under crank shooting

This refers to low-speed shooting by which warp effects and flashlight effects, and stage effects such as ghost effects can be obtained.

Over crank shooting

This refers to high-speed shooting by which stage effects using high image quality slow motion with smooth highly dense frame video can be obtained.

Points when Using Under Crank Shooting for Quick Motion

- Shoot video with the shooting frame rate set lower than the playback frame rate.

Example:

- If video is shot at 15p to create a 30p timeline, then this will result in 2x speed quick motion.
- Select a capture format ([960x720 Constant Rate Shooting 59.94p] or [960x720 Constant Rate Shooting 60p]) that matches the VARICAM frame frequency setting used when the video was shot. If video is captured in this mode, only active frames will be captured and these will become the file to be edited by variable frame rate.

Points when Using Over Crank Shooting for Slow Motion

- Shoot video with the shooting frame rate set higher than the playback frame rate.

Example:

- If video is shot at 45p to create a 30p timeline, then this will result in 2/3x speed slow motion.
- Select a capture format ([960x720 Constant Rate Shooting 59.94p] or [960x720 Constant Rate Shooting 60p]) that matches the VARICAM frame frequency setting used when the video was shot. If video is captured in this mode, only active frames will be captured and these will become the file to be edited by variable frame rate.

When Shooting for Slow Motion/Quick Motion Is Not Required

Select the 60p (59.94p) capture format.

When video is captured in this mode, playback is adjusted to keep real time at shooting. Since the original speed setting is also reflected in playback, both slow motion and quick motion are supported. However, this is not a method of effectively using the original performance of VARICAM.



Note

- To perform input/output in accordance with the IEEE1394 interface, change the frame frequency setting on the deck to 59.94 Hz at editing even when the source was shot at a frame frequency of 60.00 Hz.
- The following functions will not work properly on files captured in the [960x720 Constant Rate Shooting 59.94p] or [960x720 Constant Rate Shooting 60p] format:

- Match frame jump
- EDL import/export
- Restoring offline clips

Also, the EDL import/export function will not work properly when the following formats are selected in the project settings or at [Output H/W, Format Settings] in device presets:

- 960x720 59.94p
- 960x720 23.98p over 59.94p
- 960x720 29.97p over 59.94p
- 960x720 24p over 60p
- 960x720 25p over 60p
- 960x720 50p over 60p
- 960x720 50p

- 960×720 25p over 50p
- Video is not output during editing.

For more information, see the manual provided with VARICAM and the Panasonic homepage.

Setting External Devices Used for Preview

When performing editing, for example, while checking the display on an external monitor connected to your PC, the monitor used during editing or external devices such as Grass Valley products can be managed as preview devices, and details of these preview devices can be set.

Setting Preview Devices

Before setting preview devices, connect the external device (e.g. monitor) used for preview to the PC, and turn on the power.

For more information on settings when using a Grass Valley product as a preview device, see the user manual included with the product.

- 1 Click **[Settings]** on the menu bar, and click **[System Settings]**.



Note

- If you use the restricted user profile, the system settings cannot be changed.

Restricted user profile ▶ P104

- 2 Click the **[Hardware]** tree, and click **[Preview Device]**.

- 3 Set each item.

Preview device list	<p>Displays a list of preview devices. Click the preview device to use, and the device name will be prefixed with a check mark.</p> <p>When connecting a DV device, for example, to the IEEE1394 terminal provided as standard on a PC for video output during editing, select [Generic OHCI - Output].</p> <p>You can set the details of each device by clicking [Settings]. For more information on settings when using a Grass Valley product, see the user manual included with the product.</p> <p>[Settings - Playback Setting] Dialog Box (Generic OHCI) ▶ P116 [Settings - Stereoscopic Setting] Dialog Box (Generic OHCI) ▶ P116</p>
[Use Pulldown Format when Available]	<p>For EDIUS Elite or EDIUS Pro, check this item to give priority to pulldown operation (2-3-2-3) regardless of the [Pulldown Type] setting in the current project settings. Check this item when using a monitor that does not support progressive images.</p> <p>For EDIUS Neo, check this item to give priority to export by pulldown if pulldown to commonly used formats (59.94i/50i/59.94p/50p) is possible. Try this setting when using a monitor that does not support 23.98p/29.97p/25p display.</p>
[Display a warning message when the selected device does not support the current format]	<p>When a preview device is not compatible with the video format in the current project settings, an alarm message will be displayed. When this item is unchecked, an alarm message will not be displayed.</p>



Note

- When a preview device is not compatible with the video format in the current project settings, an alarm message will be displayed and detailed settings cannot be changed. Reset the project settings to match the preview device.

- 4 Click **[OK]**.

You can continue to set other items by clicking **[Apply]**.



Note

- Audio is output packed from the left in order starting from the smallest monitor number. When the number of output channels exceeds the number of channels that can be received by the monitor, the audio of the channels exceeding this limit is not output.

[Settings - Playback Setting] Dialog Box (Generic OHCI)

Output preview	Displays the color bar. The color bar is displayed in the same way on preview device monitors.
[DV Format]	Select the encode format ([DV]/[DVCAM]) of the hardware DVCODE. [Enable Real Time DV Output] Select whether to perform DV Encode processing. When this item is checked, EDIUS always performs DV Encode processing. To mute audio during processing, check [Mute DV Audio Output].
[Setup Level]	Set the setup level (black level). 0 IRE is used in Japan, and 7.5 IRE is used in North America.
[Default]	Return the settings of items marked with * to their defaults.

[Settings - Stereoscopic Setting] Dialog Box (Generic OHCI)

[Stereoscopic Mode]	To export the stereoscopic video to the monitor of the preview device, select a stereoscopic processing type from the list. When [L Only]/[R Only] is selected, export the video of either the L side or the R side. When [Side by Side]/[Top and Bottom]/[Line Interleave]/[Blend]/[Anaglyph]/[Difference]/[Split Grid] is selected, export the composite video of the L side and the R side. Stereoscopic Processing Type ▶ P135
[Follow stereoscopic preview mode]	Export the project in the same format as the preview window display in the stereoscopic edit mode. Displaying Preview Window in Stereoscopic Edit Mode ▶ P134
[Swap L/R]	Check this item to display video with the L side (for left eye) and R side (for right eye) swapped.

Placement Customization

Changing Screen Layouts

This section explains how to register operation screen layouts after they have been laid out according to your preference or size, and how to combine each of the palettes with the bin window or source browser window.

Registering Layouts

Register operation screen layouts after they have been laid out according to your preference or size. Before you start operation, place the window or palette on the layout you want to register.

1 Click **[View]** on the menu bar, and click **[Window Layout]** → **[Save current layout]** → **[New]**.

2 Enter a name, and click **[OK]**.



- 10 layouts can be saved. To register a new layout when 10 layouts are already registered, select the layout to be overwritten from among the registered layouts in step 2.

Renaming Layouts

You can rename registered layouts.

1 Click **[View]** on the menu bar, and click **[Window Layout]** → **[Change Layout Name]** → layout to change the name.

2 Enter a name, and click **[OK]**.

Applying Layouts

Apply a registered layout to change the layout as you like.

1 Click **[View]** on the menu bar, and click **[Window Layout]** → **[Apply Layout]** → layout to apply.



- Click **[View]** on the menu bar, and click **[Window Layout]** → **[Reset all]** to restore the default layout.
- Returning to the default layout: **[Shift]** + **[Alt]** + **[L]**

Deleting Layouts

Delete registered layouts.

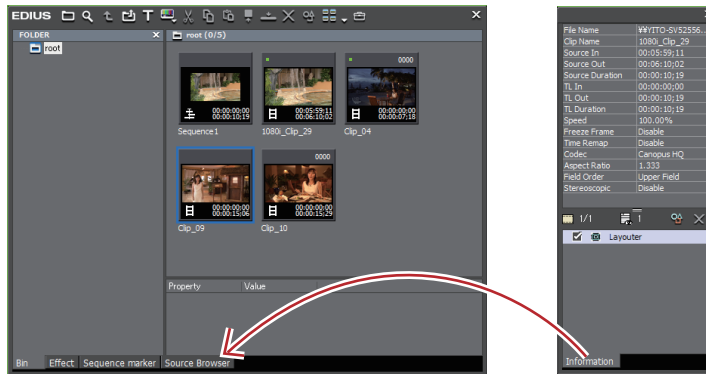
1 Click **[View]** on the menu bar, and click **[Window Layout]** → **[Delete Layout]** → layout to delete.

2 Click **[Yes]**.

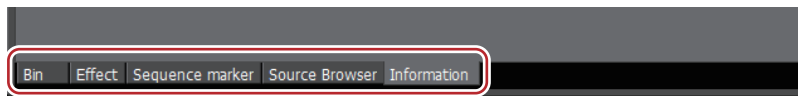
Combining Bin Window/Source Browser Window with a Palette


Combine the bin window, source browser window, and **[Effect]**, **[Marker]** and **[Information]** palettes as you like to use the display area on the screen more effectively.

1 Drag the palette tab onto the tab of the bin window or source browser window.



The palette is combined with the bin window or source browser window, and the tab is added. Click the tab to switch the display window.



- 
 You can freely combine the bin window or source browser window with any of the palettes. For example, 3 palettes can be combined into 1 palette, or the bin window or source browser window can be combined with 3 palettes into 1 window.
 - [Marker] Palette ▶ P31**
 - [Effect] Palette ▶ P31**
 - [Information] Palette ▶ P31**
- To cancel a combination, drag the tab outside the frame.

Screen Customization

Changing the Display of Operation Buttons

Add, delete and change the placement order of operation buttons that are displayed on screens.

Operation Button Settings

1 Click [Settings] on the menu bar, and click [User Settings].

2 Click the [User Interface] tree, and click [Button].

The [Button] screen appears.

[Button] Screen ▶ P120

3 Select the area to customize from the list.

4 From the [Current Buttons] list, select the button one position below the insert position.

5 Select the button to add from the [Available Buttons] list, and click [>>].

The selected button is added to the [Current Buttons] list. When [Space] has been added, a space is added between the two buttons.

To delete a button, select the button to delete from the [Current Buttons] list and click [<<]. When [Space] has been deleted, the space between the two buttons is deleted.

To change the position of a button, select the button to move from the [Current Buttons] list and click [Up] or [Down]. Each click of these buttons moves the selected button one place up or down.

6 Click [OK].

You can continue to set other items by clicking [Apply].



Alternative

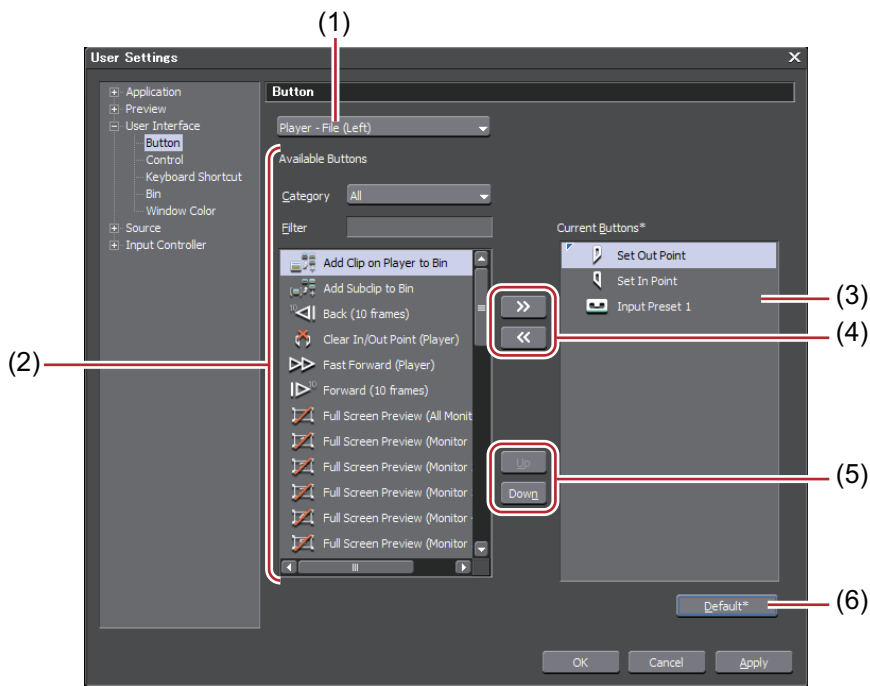
- To add a button, select the button one place under the insertion position in the [Current Buttons] list, and double-click the button to add from the [Available Buttons] list.
- To add a button, drag and drop the button to add from the [Available Buttons] list onto the [Current Buttons] list.
- To delete a button, double-click the button to delete from the [Current Buttons] list.
- To delete a button, drag and drop the button to delete from the [Current Buttons] list onto the [Available Buttons] list.
- To change the position of a button, drag and drop the button in the [Current Buttons] list.




Note

- If too many buttons are added to the center area of the Player and Recorder, only the buttons that can be shown within the area are displayed from the top of the list.

[Button] Screen









































(1)	Area	 <p>A: [Player - File (Left)] B: [Player - File (Center - Left)] C: [Player - File (Center - Right)] D: [Player - File (Right)]</p> <ul style="list-style-type: none"> • During file operations, area settings can be customized by [Player - File (Area)], and during deck operations, area settings can be customized by [Player - Deck (Area)], respectively. • Areas A to D are the same for the Recorder, too. <p>[Bin]: Bin window operation buttons [Timeline]: Timeline window operation buttons [Effect]: [Effect] palette operation buttons [Source Browser]: Source browser window operation buttons [Mode Bar]: Mode bar operation buttons</p>
(2)	[Available Buttons]	<p>[Category] Select a category to narrow down [Available Buttons].</p> <p>[Filter] Enter a keyword to narrow down [Available Buttons].</p>
(3)	[Current Buttons]	Displays the buttons to display.
(4)	[>>]/[<<]	Add/delete buttons to be displayed.
(5)	[Up]/[Down]	Change the position of buttons.
(6)	[Default]	Return settings to their defaults.

Buttons and Functions Available to Be Added

You can improve operation efficiency by adding and displaying operation buttons that are not displayed by default.

Player (File Mode) / Player (Deck Mode)




















Button	Function
	[Clear In/Out Point (Player)]
	[Set In Point]
	[Set Out Point]
	[Eject] ^{*1}
	[Audio Capture] ^{*1}
	[Capture] ^{*1}
	[Set Gang Mode] ^{*2}
	[Set clip marker/Clear clip marker (Toggle)] ^{*2}
	[StandBy Off] ^{*1}
	[Add Subclip to Bin]
	[Toggle Status]
	[Toggle Safe Area Display]
	[Toggle Zebra Display On/Off]
	[Overwrite to Timeline]
	[Insert to Timeline]
	[Add to Batch Capture List] ^{*1}
	[Video Capture] ^{*1}
	[Pre-roll Edit (Preview)] ^{*2}
	[Pre-roll Edit (Rec)] ^{*2}














Button	Function
	[Full Screen Preview (All Monitors)]
	[Full Screen Preview (Monitor 1)] - [Full Screen Preview (Monitor 8)]
	[Toggle Rotate Preview]
	[Add Clip on Player to Bin] ^{*2}
	[Match Frame (Player to Recorder)]
	[Loop] ^{*2}
	[Reel No. Settings] ^{*1}
	[Pause] ^{*1}
	[Stop]
	[Move to Start] ^{*2}
	[Input Preset 1] - [Input Preset 8]
	[Play]
	[1 Frame Back]
	[Review]
	[Fast Forward]
	[Move to End] ^{*2}
	[Next Frame]
	[Forward (10 frames)] ^{*2}
	[Back (10 frames)] ^{*2}

*1 Buttons available for use only on the Player (deck mode)

*2 Buttons available for use only on the Player (file mode)






Recorder














Button	Function
	[Clear In/Out Point (Recorder)]
	[Set In/Out Point to Focused Area]
	[VTR Emulation] ^{*1}
	[VTR Emulation (Render All)] ^{*1}
	[VTR Emulation (Render Load Area)] ^{*1}
	[VTR Emulation (Render Overload Area)] ^{*1}
	[Set In]
	[Set Out]
	[Export]
	[Set Gang Mode] ^{*2}
	[Toggle Status]
	[Toggle Safe Area Display]
	[Toggle Zebra Display On/Off]
	[Full Screen Preview (All Monitors)]
	[Full Screen Preview (Monitor 1)] - [Full Screen Preview (Monitor 8)]
	[Toggle Rotate Preview]
	[Match Frame (Recorder to Player)]
	[Loop]
	[Stop]

Button	Function
	[Move to Start]
	[Play]
	[1 Frame Back]
	[Previous Edit Point]
	[Review]
	[Fast Forward]
	[Move to End]
	[Next Frame]
	[Next Edit Point]
	[Play the Current Area]
	[Forward (10 frames)]
	[Back (10 frames)]
	[Review Selected Clips]






*1 Available only when you have VTR Emulation Option. See VTR Emulation Option User Guide for more details.







Bin

Button	Function
	[Folder]
	[Search]
	[Move Up]
	[Add Clip]
	[Add Title]





















Button	Function
	[New Clip]
	[Cut]
	[Copy]
	[Paste]
	[Register K2 Asset]
	[Show in Player]
	[Add to Timeline]
	[Delete]
	[Property]
	[View]
	[Tool]
	[Normalize (Selected Clips)]
	[Audio Offset]










Timeline

Button	Function
	[Copy (Between In/Out) - All Tracks]
	[Copy (Between In/Out) - Selected Tracks]
	[Ripple Cut (Between In/Out) - All Tracks]
	[Ripple Cut (Between In/Out) - Selected Tracks]
	[Ripple Delete (Between In/Out)]









Button	Function
	[Render In/Out (Render Overload Area)]
	[Cut (Between In/Out) - All Tracks]
	[Cut (Between In/Out) - All Tracks (Follow Mode)]
	[Cut (Between In/Out) - Selected Tracks]
	[Cut (Between In/Out) - Selected Tracks (Follow Mode)]
	[Delete (Between In/Out)]
	[Delete (Between In/Out) - Follow Mode]
	[V Mute]
	[Redo]
	[Snap to Event]
	[Audio Offset]
	[Ripple Delete Audio Clips]
	[Delete Audio Clips]
	[Delete Audio of Selected Clip (Follow Mode)]
	[Audio Channel Map]
	[Toggle Audio Mixer Display]
	[Add Cut Point (Selected Tracks)]
	[Replace Clip (All)]
	[Set Group/Link Mode]
	[Copy]

Button	Function
	[Display Thumbnail]
	[Create New Sequence] (For EDIUS Express, the item name is [New Project].)
	[Set Sequence Marker/Clear Sequence Marker (Toggle)]
	[Audio Source Channel Mode (Stereo/Monoral)]
	[Reset Source Channel]
	[Toggle Source Browser Display]
	[Create Title]
	[Move Track Patch (Up)]
	[Move Track Patch (Down)]
	[Toggle Extend Clips when Applying Transition/Cross Fade]
	[Nudge (+10 frames)]
	[Nudge (+1 frame)]
	[Nudge (-10 frames)]
	[Nudge (-1 frame)]
	[Normalize (Selected Clips)]
	[Normalize (Selected Tracks)]
	[Toggle Palette Display]
	[Ripple Delete Video Clips]
	[Delete Video Clips]
	[Delete Video of Selected Clip (Follow Mode)]





Button	Function
	[Toggle Bin Window Display]
	[Fade In]
	[Fade Out]
	[Freeze Frame]
	[Proxy Mode]
	[Save Project]
	[Open Project]
	[Toggle Vector Scope/Waveform Display]
	[Toggle Voice Over Display]
	[Match Frame (Recorder to Source)]
	[Multicam]
	[Loudness Measurement]
	[Ripple Trim (In Point)]
	[Ripple Trim (Out Point)]
	[Set Ripple Mode]
	[Ripple delete]
	[Undo]
	[Cut (Follow Mode)]
	[Delete]
	[Delete (Follow Mode)]

Button	Function
	[Toggle Insert/Overwrite Mode]
	[Set Default Transition]
	[Create a Still Image]
	[Add/Delete Rubber Band Points in Current Position]
	[Paste to Current Location]
	[Partial Download (All Sequences)]
	[Partial Download (All Sequences and Bin)]
	[Partial Download (Current Sequence)]
	[Partial Download (Replace Partially Downloaded Clip with Original Clip)]








Effect

Button	Function
	[Hide Effect View]
	[Move up one folder]
	[Folder Link]
	[Add to Timeline]
	[Delete]
	[Property]
	[View]
	[lock]

Source Browser

Button	Function
	[Folder]
	[Move Up]
	[View]
	[Show Background Job]

Mode Bar

Button	Function
	[Snap to Event]
	[Set Group/Link Mode]
	[Display Thumbnail]
	[Audio Source Channel Mode (Stereo/Monoral)]
	[Proxy Mode]
	[Set Ripple Mode]
	[Toggle Insert/Overwrite Mode]

Changing the Display of the Preview Window

The following explains how to change the display of the preview window.

Switching Between Single Mode/Dual Mode

You can switch the preview window between the single mode or dual mode.

- 1 Click **[View]** on the menu bar, and click **[Single Mode]** or **[Dual Mode]**.

The display of the preview window switches to single or dual mode.

Preview Window ▶ P24

- To switch between the Player and Recorder in the single mode, click [Change to Player] or [Change to Recorder].



- You can switch between the Player and Recorder by the following shortcut keys:
 - Switching to the Player: [Ctrl] + [Alt] + [P]
 - Switching to the Recorder: [Ctrl] + [Alt] + [R]
 - Switching to the Player/Recorder: [Tab]

Full Screen View of Preview Window

Video displayed in the preview window can be displayed in full screen view.

Assign in advance which video, such as Player or Recorder video, or video from a selected camera in the multicam mode, is to be displayed in full screen view on each monitor connected to your PC.

[Monitor] ► P94

Note

- The occurrence of combing (vertical comb-like stripes) is normal when interlaced images are previewed in full screen view.

When previewing on a PC, the same quality as in hardware preview out cannot be assured. Since there is a difference between refresh rate of a PC monitor and the internal frame refresh rate of EDIUS, the same field may be displayed multiple times in the preview window and fields that should be displayed may not be displayed. Also, the same phenomenon may sometimes occur at a non-uniform display frequency depending on the performance of the CPU or GPU.

1 Click [View] on the menu bar, and click [Full Screen Preview] → monitor number.

When [All] is clicked, all monitors that have been set to full screen view at [Preview] in [User Settings] → [Monitor] can be displayed as full screen view.

[Monitor] ► P94

Alternative

- Double-click the preview window.



- Perform the following to cancel full screen view:
 - Click [View] on the menu bar, and click [Full Screen Preview] → monitor number.
 - Double-click the monitor set to full screen view.

Rotation Display of Preview Window

The preview window can be displayed rotated by 90 degrees.

1 Click [View] on the menu bar, and click [Rotate Preview] → [Right 90 Degrees] or [Left 90 Degrees].

When [All] is clicked, all monitors that have been set to full screen view at [Preview] in [User Settings] → [Full Screen Preview] can be displayed in full screen view.



- Click [View] on the menu bar, and click [Rotate Preview] → [Standard] to return the window to its original state.
- Rotation of the preview can be set to each individual sequence. To maintain rotation of the preview when a project is next opened, set rotation of the preview as desired to each sequence, and then save the project.
- When a new project or sequence is created, the orientation of the preview window will be standard (i.e. rotation off).

Showing/Hiding Preview Window

Switch the show/hide setting for the safe area, center, and zebra preview.

You can change the information display settings from [Preview] in [User Settings] → [Overlay].

[Overlay] ► P96

1 Click [View] on the menu bar, and click [Overlay] → an item to display.

The selected information is displayed in the preview window.

Example:

Player



(1) Clip/device name (capturing)/reel name (capturing)

(2) Safe area

(3) Center

(4) Zebra preview

Alternative

- Showing/hiding safe area: [Ctrl] + [H]
- Showing/hiding center: [Shift] + [H]

- When [Marker] is selected as a display item, the clip marker comment is displayed on the Player only when the slider is directly above the clip marker. Also, on the Recorder, the sequence marker list is displayed only when the timeline cursor is directly above the sequence marker. Note, however, that these are not displayed during playback.

Showing/Hiding Status Area

Switch the show/hide setting for the status area.

You can change the settings of items displayed in the status area from [Preview] in [User Settings] → [On Screen Display].

[On Screen Display] ▶ P95

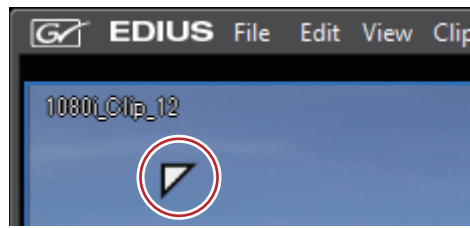
1 Click [View] on the menu bar, and click [On Screen Display] → [Status].

Select whether to display on not just the PC screen but also the external monitor. Click [PC Monitor/External Output] or [PC Monitor].

Example:
Player



- When the status bar is displayed, a white triangle indicating the start or end frame is also displayed at the upper left or upper right corner of the safe area.



Alternative

- Showing/hiding status area: [Ctrl] + [G]

Control Area Settings

You can set the display item or the size of the timecode/shuttle/slider/buttons.



- (1) Shuttle
- (2) Timecode
- (3) Slider
- (4) Button

1 Click **[Settings]** on the menu bar, and click **[User Settings]**.

The **[User Settings]** dialog box appears.

2 Click the **[User Interface]** tree, and click **[Control]**.

3 Set each item.

[Show Timecode]	Check the timecode items to display in the preview window, and set their size.
[Shuttle/Slider]	Set the show/hide setting for the shuttle and slider in the preview window.
[Button]	Set the show/hide setting and the size of the operation buttons on the preview window.

4 Click **[OK]**.

You can continue to set other items by clicking **[Apply]**.

Switching the Screen Display when Stopping Playback

You can switch the display of the preview window to each field when playback is stopped.

1 Click **[View]** on the menu bar, and click **[Pause Field]** → display method.

Showing/Hiding Alpha Channel

Turn the video with alpha channel to gray scale and display in the preview window.

1 Click **[View]** on the menu bar, and click **[Show Alpha Channel]**.

Displaying Preview Window in Stereoscopic Edit Mode

You can switch the preview window display in the stereoscopic edit mode.

1 Click [View] on the menu bar, and click [Stereoscopic Mode] → display method.
Stereoscopic Processing Type ▶ P135

Stereoscopic Processing Type

The following types of stereoscopic processing that displays stereoscopic video in a single frame are available.

[L Only]	Display only the L side video (for left eye).
[R Only]	Display only the R side video (for right eye).
[Difference]	Display the color converted to the difference value between the L side and the R side video.
[Blend]	Display video with the L side and the R side blended with 1:1 ratio.
[Top and Bottom]	Display the L side video on the upper half of the frame and the R side video on the lower half.
[Anaglyph]	Display the L side video in red and the R side video in blue.
[Line Interleave]	Display the L side video on the upper line of the scanning line and the R side video on the lower line of the scanning line. Use this setting when displaying video on the 3D monitor with the polarization system.
[Side by Side]	Display the L side video on the left half of the frame and the R side video on the right half.
[L/R Dual Stream]	Display the stereoscopic video using NVIDIA 3D VISION. This item can be used when your system supports NVIDIA 3D VISION. Check [Using NVIDIA 3D VISION] from [Preview] in [User Settings] → [Monitor]. [Monitor] ▶ P94
[Split Grid]	Display the L side video and the R side video in the white and black area on the checkerboard respectively. Use this setting when displaying video on the DPL-based 3D monitor.

Changing the Display of the Bin Window

The bin window consists of the folder view in which clips are stored, the clip view in which clips are displayed, and the metadata view in which clip metadata is displayed.

Bin Window ▶ P28

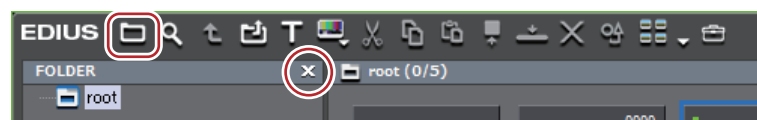
Showing/Hiding Folder View

You can switch the show/hide setting for the folder view.

1 Click [Folder] in the bin.

Each click switches the show/hide setting for the folder view.

The folder view can also be set to hide by clicking [x].



Alternative

- Showing/hiding folder view: [Ctrl] + [R]

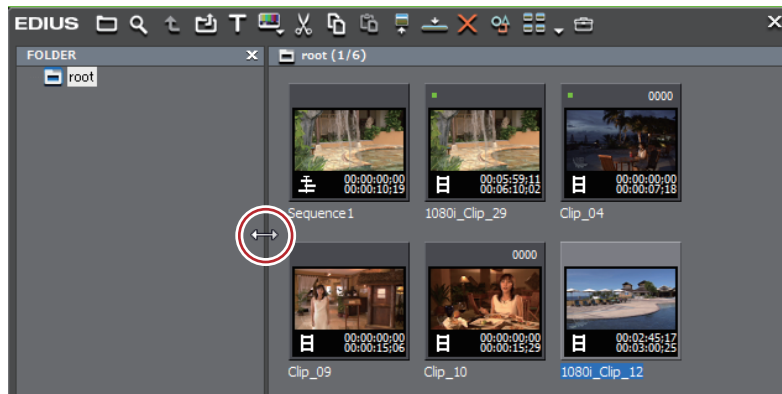
Resizing Folder View/Clip View/Metadata View

You can resize the folder view/clip view/metadata view.

- 1 Drag the border between the folder view and clip view of the bin window, or the border between the clip view and the metadata view.

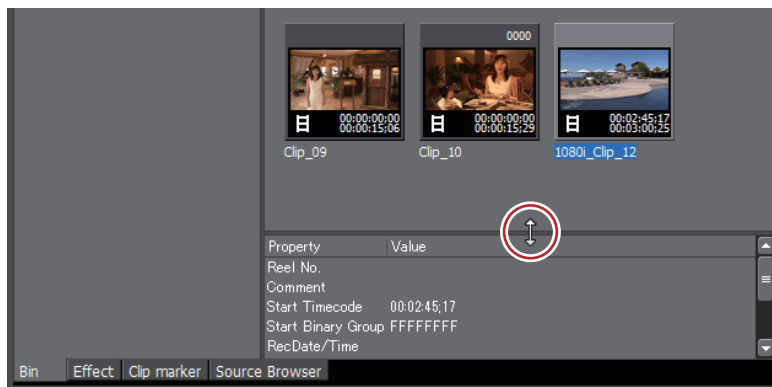
Example:

Border between folder view and clip view



Example:

Border between clip view and metadata view



- The show/hide setting for the metadata view can be switched by the following operations.
 - To hide the metadata view, drag the border between the clip view and metadata view down to the bottom of the bin window. To show the metadata view, drag the border upward from the bottom of the clip view.



- Showing/hiding metadata view: [Ctrl] + [M]

Clip View Display

Switch the display of clips in the clip view.

- 1 Click [View] in the bin.



Each click changes the display.

 : [Thumbnail (Large)]

 : [Thumbnail (Small)]

 : [Thumbnail (Tile)]


 : [Detail Text (Large)]

 : [Detail Text (Small)]

 : [Detail (Icon)]

Alternative

- Click the [View] list button to select the display method.
- Right-click a blank area of the clip view and select [View] → display method.

-  • The simple search bar is displayed at the bottom of the metadata view by pressing [F3] on the keyboard.
Searching by the Simple Search Bar ► P206

Bin Detailed Display Item Settings

Set items in the clip view.

- 1 Click [Settings] on the menu bar, and click [User Settings].
- 2 Click the [User Interface] tree, and click [Bin].
- 3 Set each item.

[View]	<p>Set the information display items for each of the clip view displays.</p> <p>[Large Thumbnail (Tooltip)]/[Small Thumbnail (Tooltip)] Set the items to be displayed when the mouse cursor is placed over clips in the bin when the clip view display is set to [Thumbnail (Large)]/[Thumbnail (Small)].</p> <p>[Detail] Set the item to be displayed in the bin clip view when the clip view display is set to [Detail Text (Large)]/[Detail Text (Small)]/[Detail (Icon)].</p>
[Folder Type]	Set different view items at [Normal Folder] and [Find Folder] (search result folder).
[Columns]	Check the display items.
[Up]/[Down]	Sort the items. Select an item, and move the selected item one place up or down with each click of [Up] or [Down].
[Width]	Select an item, and enter a numerical value. This item can be set only when [View] is set to [Detail].
[Default]	Return settings to their defaults.

- 4 Click [OK].

You can continue to set other items by clicking [Apply].

Alternative

- When the clip view display is set to [Detail], the following operations are possible:
 - Sorting items by dragging
 - Changing the item width by dragging its border
 - Changing display items by right-clicking

Changing the Display of the Source Browser Window

The source browser window consists of the folder view in which external devices are displayed, the clip view in which clips are displayed, and the metadata view in which clip metadata is displayed.

Source Browser Window ▶ P29

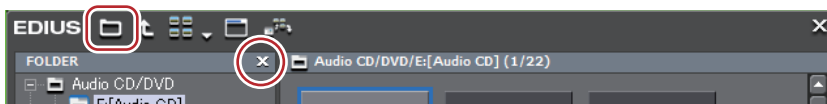
Showing/Hiding Folder View

You can switch the show/hide setting for the folder view.

1 Click [Folder] in the source browser.

Each click switches the show/hide setting for the folder view.

The folder view can also be set to hide by clicking [x].



Alternative

- Showing/hiding folder view: [Ctrl] + [R]

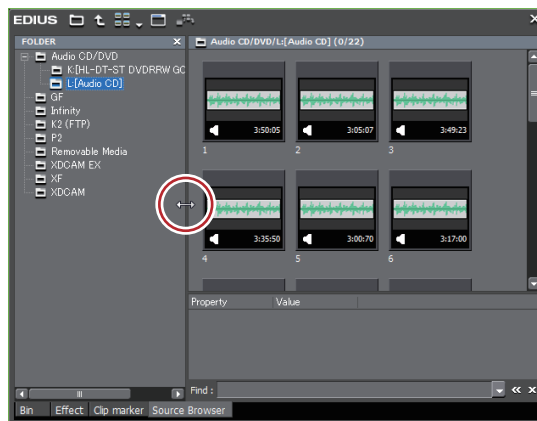
Resizing Folder View/Clip View/Metadata View

You can resize the folder view/clip view/metadata view.

1 Drag the border between the folder view and clip view of the source browser window, or the border between the clip view and the metadata view.

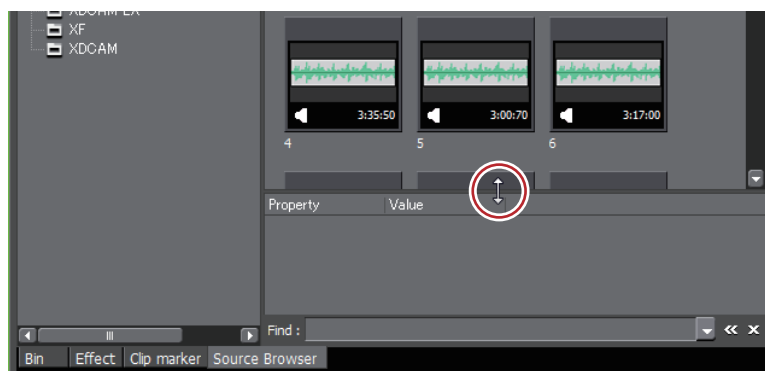
Example:

Border between folder view and clip view



Example:

Border between clip view and metadata view





- The show/hide setting for the metadata view can be switched by the following operations.
 - To hide the metadata view, drag the border between the clip view and metadata view down to the bottom of the source browser window. To show the metadata view, drag the border upward from the bottom of the clip view.



- Showing/hiding metadata view: [Ctrl] + [M]

Clip View Display

Switch the display of clips in the clip view.

- 1 Click [View] in the source browser.



Each click changes the display.



: [Thumbnail (Large)]



: [Thumbnail (Small)]



: [Detail Text (Large)]



: [Detail Text (Small)]



: [Detail Icon]



Alternative

- Click the [View] list button to select the display method.
 - Right-click a blank area of the clip view and select [View] → display method.
- The simple search bar is displayed at the bottom of the metadata view by pressing [F3] on the keyboard.

Searching by the Simple Search Bar ▶ P160

 - When the clip view display is set to [Detail], the following operations are possible:
 - Sorting items by dragging
 - Changing the item width by dragging its border
 - Changing display items by right-clicking

Changing the Color of Operation Screens

Changing the Color of Operation Screens

Change the color of operation screens such as windows or palettes as you like.

- 1 Click [Settings] on the menu bar, and click [User Settings].
- 2 Click the [User Interface] tree, and click [Window Color].
- 3 Set each item.

[Window Color]	Specify RGB values to customize the screen color as you like. The specified color is displayed in the color sample.
[Default]	Return settings to their defaults.

- 4 Click [OK].

You can continue to set other items by clicking [Apply].

Shortcut Keys

Using Shortcut Keys

This section explains operation methods using shortcut keys and how to change keyboard shortcut assignments.

About Shortcut Keys

You can perform operations more effectively using combinations of keys on the keyboard (keyboard shortcuts), or combinations of mouse and key operations (mouse shortcuts).

Keyboard Shortcuts

Example:

Playback and stop

Press [Enter] on the keyboard while the preview window or timeline is active. This plays back (or stops) video.

Example:

Deletion of gaps (deletion of spaces between clips)

Click on the clip immediately following the space on the timeline, and press [Backspace] on the keyboard.

Mouse Shortcuts

Example:

Joint move

Drag the clip with the mouse with [Shift] and [Alt] on the keyboard held down.

Example:

Saving projects under different names

With [Shift] on the keyboard held down, click [Save Project] with the mouse.

Changing Keyboard Shortcut Assignments

Change shortcut keys assigned to the keyboard.

1 Click [Settings] on the menu bar, and click [User Settings].

The [User Settings] dialog box appears.

2 Click the [User Interface] tree, and click [Keyboard Shortcut].

3 Select the [Motion] items to change.

[Category]	Select categories to narrow down the search of shortcut operations.
[Filter]	Enter a keyword to narrow down the shortcut operations.
Operation list	Displays operations searched by narrowing down categories in a list.
[Import]	Import the contents of keyboard shortcut key assignments.
[Export]	Export the contents of keyboard shortcut key assignments.
[Assign]	Displays the keyboard to enable setting of key assignments.
[Not Assign]	Change assigned shortcut key settings to [Not Assign].
[Duplicate]	Copy shortcut keys assigned in [Motion]. [Assign] becomes [Not Assign].
[Delete]	When a shortcut has been duplicated by [Duplicate], one of the shortcuts with the same [Motion] can be deleted.
[Default]	Return key assignments to their default settings.

4 Click [Assign].

The [Key Assign] dialog box appears.

The [Key Assign] dialog box also appears by double-clicking the [Motion] item.

5 Press the key to assign on the keyboard, and click [Close].

White keys indicate that they have no shortcuts assigned. If you click a key that has other operations assigned, a dialog box to confirm whether to change the current setting appears.

The shortcuts you have entered are displayed at the [Assign] item.

6 Set each item and click [OK].

You can continue to set other items by clicking [Apply].



- Some key combinations sometimes cannot be assigned.
- Customized shortcuts can be exported and imported into other environments installed with EDIUS.
- The extension of exported files is *.eap. Both *.dat and *.eap files can be imported.

CHAPTER 5

Importing Sources

This chapter explains how to import sources to EDIUS.

There are basically three ways to import sources, and each method differs according to where sources are imported from.

One method is to capture and import sources from DirectShow devices, such as web cameras and external devices stored with tape-based video recordings; others are to import files saved on your PC as sources, and to use the source browser to import sources from external devices stored with file-based video recordings.

Capturing and Importing

Points to Be Checked before Capturing Sources

The following explains the checks to perform before capturing sources and precautions when connecting to external devices.

Registering External Devices that Interact with Device Presets

Register connection information, video format and other information when importing sources as device presets for Grass Valley products, cameras, decks, and other external devices used for capture.

Registering Device Presets ▶ P106

Capture Operation Settings

Before setting, connect the external devices to synchronize the input signal. The following cases may occur depending on the characteristics of the input devices and the recording state of the tape:

- Batch capture cannot be performed correctly.
- Unnecessary files are generated by automatic division.
- Unnecessary files are created at start of capture.

Capture settings can be checked and changed by [Application] in [System Settings] → [Capture].

[Capture] ▶ P75

Connecting to External Devices

Before capture, connect your PC to a camera or other external device to import the source from.

Connecting to HDV Device

To capture HDV standard sources, connect the HDV device to the IEEE1394 terminal on your PC with a DV cable. If your HDV device supports the HDV mode, set the device to the HDV mode. For more information on settings, see the instruction manual for your HDV device.

Connecting to DV Device

To capture DV standard sources, connect the DV device to the IEEE1394 terminal on your PC with a DV cable. For more information on connecting to DirectShow base devices such as web cameras and microphones, and analog devices, other input devices, and external monitors, see the user manual included with the product.

Capturing and Importing Sources

The following explains how to capture and import from DV tape or DirectShow base web cameras, and how to capture analog sources.

Importing Sources from DV Tape (Capture)

You can import sources in HDV or DV format by simple operation.

Connect your PC to the camera, and import HDV and DV standard sources recorded on DV tape using the codec that was set when the device preset was registered.



Note

- Connection information, video format and other information when importing sources for Grass Valley products, cameras, decks, and other external devices used for importing sources must be registered in advance as device presets.

Registering Device Presets ▶ P106

1 Click [Capture] on the menu bar, and click [Select Input Device].

The [Select Input Device] dialog box appears, and the list of device presets registered in system settings is displayed.

2 Select a device preset, and click [OK].

 **Alternative**

- Click [Capture] on the menu bar, and click [Device Preset Name] to display the device preset.
- Click the device preset name ([Input Preset 1] to [Input Preset 8]) to display the device preset. (By default, [Input preset 2] to [Input Preset 8] are not displayed. Before performing the operation, set to display the buttons in the preview window.)

Operation Button Settings ▶ P119

- Displaying the device preset assigned to the input preset 1: [F2]
- Displaying the device preset assigned to the input preset 2: [F3]
- Displaying the device preset assigned to the input preset 3: [F4]

3 Set the reel name, if necessary.

To set a reel name, uncheck [UserBit is used as a Reel No.] and enter a reel name. You can also select previously entered reel names from the list.

4 Click [OK].

The camera can now be operated by the Player operation buttons.

Playback with Player Operation Buttons ▶ P173

- If you click a timecode in [Cur] on the Player, the [TC Jump] dialog box appears. Enter the timecode in [Destination] and click [Jump] to display the frame of the specified timecode.

 **Note**

- If the HDV camera is not recognized, check the items in [Sound, video and game controller] on the Device Manager. The camera will be recognized correctly in Windows 7 if the device name is displayed. If it is not recognized, check that Windows is updated, and that the HDV camera is set to the HDV fixed mode (HDV-DV conversion is off).
- When the source has been captured in MPEG TS format, the information of the preset reel name will not be recorded to the captured source file but to the project file. The information of the reel name set at capture will not be reflected even if that source file is opened in another project file after EDIUS is restarted.

5 Play back the source to capture, and set the In and Out points.

Setting the In and Out Points ▶ P176

There are other ways of specifying the range to capture.

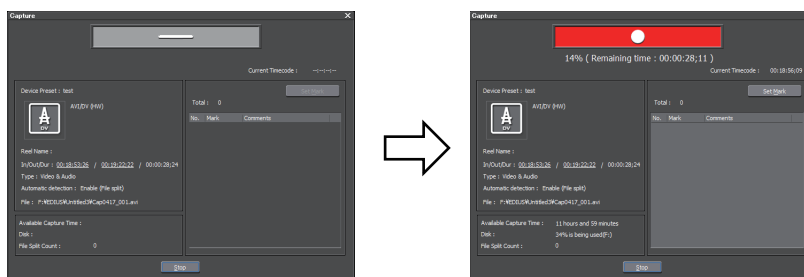
How to Specify the Capture Range ▶ P147

- To capture only the video part, click the [Set In Point] list button on the Player, and click [Set Video In] to set the In point. To set the Out point, click the [Set Out Point] list button on the Player, and click [Set Video Out Point].
- To capture only the audio part, click the [Set In Point] list button on the Player, and click [Set Audio In Point] to set the In point. To set the Out point, click the [Set Out Point] list button on the Player, and click [Set Audio Out Point].

6 Click [Capture] on the Player.



Capturing starts. The [Capture] dialog box appears, and capturing ends automatically at the Out point. To stop the capture midway, click [Stop].



The clip is registered to the bin.

 **Alternative**

- Press [F9] on the keyboard after step 5.

- Click the [Capture] list button on the Player, and click [Video and Audio].
- Only the video part or audio part is captured when the [Capture] list button on the Player is clicked and [Video Only] or [Audio Only] is selected.
- Click [Capture] on the menu bar, and click [Capture].
- Click [Capture] on the menu bar, and click [Video Capture] or [Audio Capture].



- Files can be automatically divided at capture.

[Capture] ▶ P75

- During capture, you can add a marker with a comment to the source clip.

Setting Clip Markers at Capture ▶ P277

- The batch capture function is supported only on models that can acquire the timecode. Some models may not support timecodes.
- To change a reel name midway, for example, when swapping tapes, click [Capture] on the menu bar, and click [Reel No. Settings].
- For EDIUS Elite, another EDIUS client on the same network can perform edit while recording by importing the captured data, when capturing sources in AVI or MXF format.



Note

- When the source has been captured in MPEG TS format, the information of the preset clip marker will not be recorded to the captured source file but to the project file. The information of the clip marker set at capture will not be reflected even if that source file is opened in another project file after EDIUS is restarted.

Setting Clip Markers at Capture ▶ P277

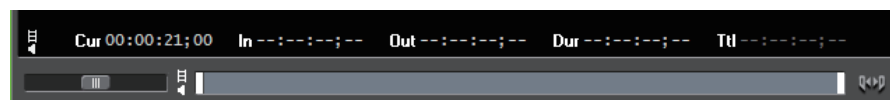
How to Specify the Capture Range

There are six ways as follows to specify the capture range (between In and Out points) in steps 5 to 6.

The timecode that is given priority at capture from among the timecodes at [In], [Out] and [Dur] on the Player is underlined.

Open end capture

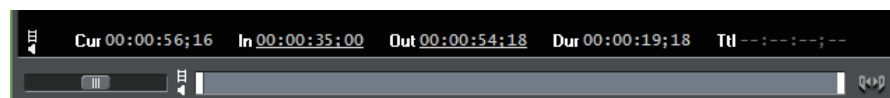
Capture starts when [Capture] is clicked without specifying the In and Out points, and ends when [Stop] is clicked. Timecode display on the Player:



In/Out capture

Specify the In/Out points.

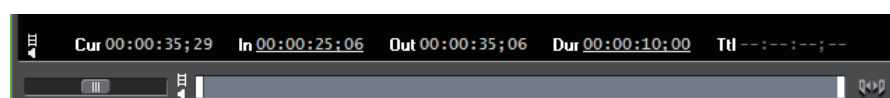
Timecode display on the Player:



In/Dur capture

Specify the In point, then click the timecode in [Dur] on the Player, enter the duration, and press [Enter] on the keyboard.

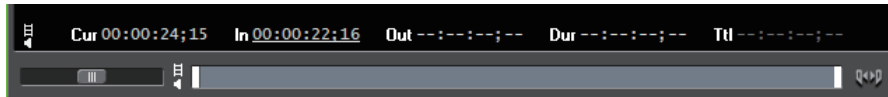
* This method is used, for example, to capture from a tape of free run recordings with non-continuous timecodes. Timecode display on the Player:



In capture

Capture ends when [Stop] is clicked after only the In point is specified.

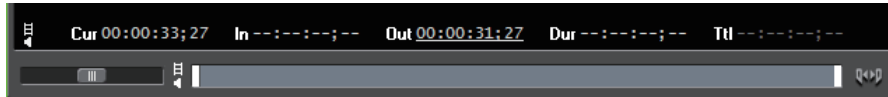
Timecode display on the Player:



Out capture

Specify only the Out point, rewind to the capture start position, and click [Capture].

Timecode display on the Player:

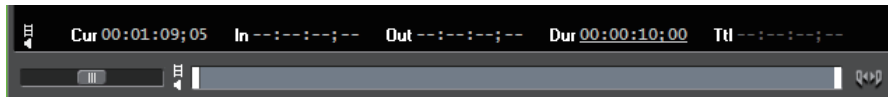


Dur capture

Click the timecode at [Dur] on the Player without specifying the In and Out points, enter the duration, and press [Enter] on the keyboard. Click [Capture] to start capturing.

* This method is used, for example, to capture a line recording for a specified duration of time.

Timecode display on the Player:



- ☞ In the case of an In/Out capture or In/Dur capture, the timecode to give priority to can be changed to a duration or Out point by clicking the [Out] or [Dur] letter on the Player.
- All timecodes that have been set can be deleted by right-clicking the timecodes at [Dur] and clicking [Clear].

Capture of Stereoscopic Sources (L/R Separate Capture)

Capture stereoscopic sources where the L side and the R side are recorded separately, using the batch capture function.

To capture stereoscopic sources, register compatible device preset in advance. Select [Separate L/R Clips] from the [Stereoscopic] list in the [Input H/W, Format Settings] screen for device presets.

Registering Device Presets ▶ P106

1 Perform steps 1 to 10 in “Importing Sources All Together (Batch Capture)”.

Importing Sources All Together (Batch Capture) ▶ P150

After **9** or **10**, the [Individual L/R capture] dialog box appears for each item of the batch capture list.

2 Set a capture method for the R side source.

[Individual L/R capture] Dialog Box ▶ P148

3 Click [OK].

Capturing starts in the order of the L side source and the R side source, and the progress is displayed in [Status] of the [Batch Capture] dialog box. When capturing ends, the stereoscopic clip is registered to the bin.

- ☞ If only the audio part in a stereoscopic source is batch captured, the WAV file will be created.

[Individual L/R capture] Dialog Box

[How to capture R clip]	Select whether to capture the R side source from the same tape as the L side source, or to capture from another tape. To capture from the same tape, enter a timecode in [IN Offset].
[File Name]	Set a suffix for file names of the L side and the R side.

Importing from Devices Not Controlled by a Deck

Analog sources stored on video tape or similar device can be imported via a Grass Valley product, Bay and A/D converter.

Note

- When analog sources are imported from an analog device or device connected by the HDMI terminal, the device cannot be controlled from EDIUS.
- Connection information, video format and other information when importing sources for Grass Valley products and other external devices used for importing sources must be registered in advance as device presets.

Registering Device Presets ▶ P106

1 Locate the start point of the capture part on the external input device.

2 Click [Capture] on the menu bar, and click [Select Input Device].

The [Select Input Device] dialog box appears, and the list of the device presets registered in the system settings is displayed.

3 Select a device preset, and click [OK].

Alternative

- Click [Capture] on the menu bar, and click [Device Preset Name] to display the device preset.
- Click the device preset name ([Input Preset 1] to [Input Preset 8]) to display the device preset. (By default, [Input preset 2] to [Input Preset 8] are not displayed. Before performing the operation, set to display the buttons in the preview window.)

Operation Button Settings ▶ P119

- Displaying the device preset assigned to the input preset 1: [F2]
- Displaying the device preset assigned to the input preset 2: [F3]
- Displaying the device preset assigned to the input preset 3: [F4]

4 Set the reel name, if necessary.

To set a reel name, uncheck [UserBit is used as a Reel No.] and enter a reel name. You can also select previously entered reel names from the list.

5 Click [OK].

6 Click [Capture] on the Player.



Capturing starts.

Alternative

- Press [F9] on the keyboard after step 5.

7 Play back the external input devices.

8 After finishing capturing of necessary parts, click [Stop] in the [Capture] dialog box.

When capturing is stopped, the captured clip is registered to the bin.

9 Stop the playback of external input devices.

Importing from a Web Camera

You can import sources from devices such as DirectShow-based web cameras or microphones.

Note

- Connection information and other information for web cameras or microphones used for importing sources must be registered in advance as device presets.

Registering Device Presets ▶ P106

1 Click [Capture] on the menu bar, and click [Select Input Device].

The [Select Input Device] dialog box appears, and the list of the device presets registered in the system settings is displayed.

2 Select a device preset, and click [OK].

 **Alternative**

- Click [Capture] on the menu bar, and click [Device Preset Name] to display the device preset.
- Click the device preset name ([Input Preset 1] to [Input Preset 8]) to display the device preset. (By default, [Input preset 2] to [Input Preset 8] are not displayed. Before performing the operation, set to display the buttons in the preview window.)

Operation Button Settings ▶ P119

- Displaying the device preset assigned to the input preset 1: [F2]
- Displaying the device preset assigned to the input preset 2: [F3]
- Displaying the device preset assigned to the input preset 3: [F4]

3 Set the reel name, if necessary.

To set a reel name, uncheck [UserBit is used as a Reel No.] and enter a reel name. You can also select previously entered reel names from the list.

4 Click [Capture] on the Player.



Capturing starts.

 **Alternative**

- Press [F9] on the keyboard after step 3.

5 After finishing capturing necessary parts, click [Stop] in the [Capture] dialog box.

When capturing is stopped, the captured clip is registered to the bin.

 **Note**

- The source settings, such as bitrate or frame size, vary depending on your device.

Capturing Sources All Together

Importing Sources All Together (Batch Capture)

The following explains how to determine the directory to capture sources to in advance and import sources all together.

1 Click the [Add to Batch Capture List] list button on the Player.



2 Click [Batch Capture].

The [Batch Capture] dialog box appears.

[Batch Capture] Dialog Box ▶ P152

 **Alternative**

- Click [Capture] on the menu bar, and click [Batch Capture].
- Displaying the [Batch Capture] dialog box: [F10]

3 Select the device preset from the list at [Input Settings].

4 Set the reel name, if necessary.

To set a reel name, uncheck [UserBit is used as a Reel No.] and enter a reel name. You can also select previously entered reel names from the list.

Note

- When the source has been captured in MPEG TS format, the information of the preset reel name will not be recorded to the captured source file but to the project file. The information of the reel name set at capture will not be reflected even if that source file is opened in another project file after EDIUS is restarted.

5 Play back the source to capture, and set the In and Out points.

When the In point is placed ahead of the Out point on the timeline, the text in that row is displayed in red. This area will not be captured.

Setting the In and Out Points ▶ P176

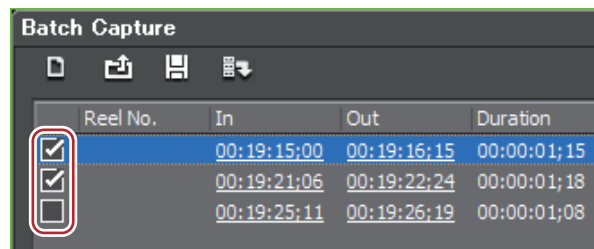
- The In point and duration can also be specified as the capture range. Specify the In point, then click the timecode at [Dur] on the Player, enter the duration, and press [Enter] on the keyboard.

6 Click [Add to Batch Capture List] in the [Batch Capture] dialog box.**Alternative**

- Click [Add to Batch Capture List] on the Player.
- Click the [Add to Batch Capture List] list button on the Player, and click [Video and Audio].
- Only the video part or audio part is captured when the [Add to Batch Capture List] list button on the Player is clicked and [Video Only] or [Audio Only] is clicked.
- Adding to batch capture list: [Ctrl] + [B]

7 Repeat steps 3 to 6.**8 Turn on the check buttons for the sources to capture from the list in the [Batch Capture] dialog box.**

The check buttons are turned on immediately after the sources are added to the list.

**9 Click [Capture] in the [Batch Capture] dialog box.**

If a reel name is not set in step 4, capturing starts and the progress is displayed in [Status] of the [Batch Capture] dialog box. The captured clip is registered to the bin.

If you set a reel name in step 4, proceed to step 10.

**Note**

- When HDV is batch-captured in “MPEG TS” format, the result of [Status] sometimes ends not as 100% but as “101%” or “102%”. This is normal operation due to the specifications for capturing MPEG by the GOP.

10 Insert a tape in your camera, and select the corresponding reel name from the [Please insert the tape, and select the reel name.] list.

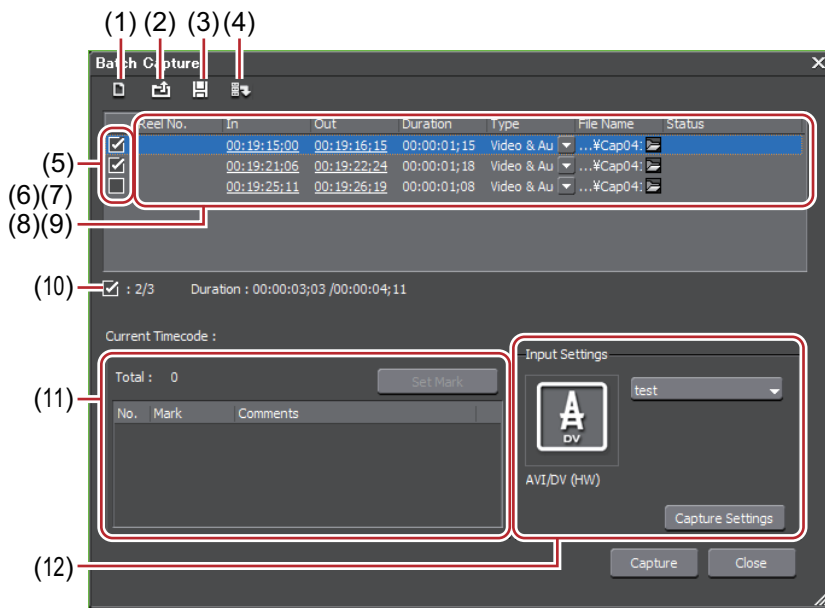
The time required for capturing is indicated next to the reel name.

11 Click [OK].

Capture of the source corresponding to the selected reel name starts, and the progress is displayed in [Status] of the [Batch Capture] dialog box. The captured clip is registered to the bin.

If you set multiple reel names, repeat steps 10 to 11.

[Batch Capture] Dialog Box



(1)	[Create new capture list]	Create a new batch capture list.
(2)	[Load capture list]	Import the saved batch capture list (ECL, CSV, RNL, ALE or FCL file).
(3)	[Save capture list]	Save the content of the batch capture list as a CSV file.
(4)	[Add to Batch Capture List]	Add to the batch capture list.
(5)	Source to be captured	Check the sources to capture from the list.
(6)	[Reel No.]	Click this button to edit a reel name. If there is not even one batch capture list set with a reel name, the [Reel No.] items are not displayed in the dialog box.
(7)	[In]/[Out]/[Duration]	Display the In and Out points and duration of the source. The timecode that is given priority at capture is underlined. To change the timecode that is given priority, select the source and right-click, and click [Change to In/Out capture] or [Change to In/Duration capture]. The numerical value can also be changed by clicking the timecode at [In]/[Out]/[Duration].
(8)	[Type]	Click and select the content to capture (both video and audio parts/video part only/audio part only).
(9)	[File Name]	Click this item to specify the file name and save destination of the source to capture. Click the folder icon to specify the save destination of the source to capture. You can also select multiple sources to specify the save destination.
(10)	Number of sources and duration	Display the number of checked sources/total number of sources in list and each duration. During a capture, the duration available for capture, current disk space usage, and the number of file divisions are displayed.
(11)	Clip marker	During capture, add a marker with a comment to the source clip. A list of clip marker timecodes and comments is displayed. Multiple clip markers can be assigned. When the source has been captured in MPEG TS format, the information of the preset clip marker will not be recorded to the captured source file but to the project file. The information of the clip marker set at capture will not be reflected even if that source file is opened in another project file after EDIUS is restarted. Setting Clip Markers at Capture ▶ P277

(12)	[Input Settings]	Click the list to select the device preset used for capture. [Capture Settings] Display the [System Settings] dialog box. You can check and change [Capture].
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- To delete the source to capture from the batch capture list, select and right-click the source, and click [Delete].
- To select all sources in the batch capture list, select and right-click the source, and click [Select All].

Saving Batch Capture Lists

You can save batch-captured sources as a list.

- 1 Click the **[Add to Batch Capture List]** list button on the Player.



- 2 Click **[Batch Capture]**.

The [Batch Capture] dialog box appears.

[Batch Capture] Dialog Box ▶ P152



Alternative

- Click [Capture] on the menu bar, and click [Batch Capture].
- Displaying the [Batch Capture] dialog box: [F10]

- 3 Click **[Save capture list]**.

- 4 Set a file name and save destination, and click **[Save]**.



- When “Mode1” is selected for the save format, hours/minutes/seconds/frames will be entered in a column. When “Mode2” is selected, hours/minutes/seconds/frames will be entered in each respective column.

Importing Batch Capture Lists

Import saved batch capture lists.

Batch capture lists can be imported in the following formats:

- Batch capture list (*.ecl): Binary format file of batch capture list
- CSV file (*.csv): Text format file containing data delimited by commas
- RNL file (*.rnl): Files created by Grass Valley StormNavi, RexNavi, RaptorNavi, or EzNavi
- ALE file (*.ale): Files equivalent to Avid Log Exchange batch capture list
- FCL file (*.fcl): Files equivalent to Final Cut Pro batch capture list



Note

- When a batch capture list other than a CSV file created with EDIUS has been imported, capture becomes In/Out capture, and video and audio parts are captured.
- If you import the FCL file to EDIUS, the condition below must be met:
 - Files in which “Name”, “Rules”, “Start of media”, and “End of media” columns are described
 - Files with the “*.fcl” extension
 - Files exported by Final Cut Pro 6 or later
- To import ALE files to EDIUS, “Name”, “Start”, “End”, or “Duration” columns must be described in the ALE file.

- 1 Click the **[Add to Batch Capture List]** list button on the Player.



- 2 Click **[Batch Capture]**.

The [Batch Capture] dialog box appears.

[Batch Capture] Dialog Box ▶ P152

 **Alternative**

- Click [Capture] on the menu bar, and click [Batch Capture].
- Displaying the [Batch Capture] dialog box: [F10]

3 Click [Load capture list].

4 Select the extension of the file to import in [File of type], select the file and click [Open].

Importing Files from the Bin

Importing Files Stored on Your PC

To import a file saved on your PC to EDIUS, they must first be registered to the bin as a clip. The following explains how to register files or file formats that can be imported to EDIUS to the bin.

Registerable File Formats

The following lists the file formats that can be imported to EDIUS:

- AVCHD (*.m2ts, *.mts)
 - Transport Stream (*.ts)
 - AVI file (*.avi)
 - DIF stream (*.dif, *.dv)
 - DivX file (*.divx, *.div)
 - Sony HVR-DR60/HVR-MRC1 Meta file (*.idx)
 - Ogg Vorbis file (*.ogg)
 - Aiff file (*.aif, *.aiff)
 - Wave file (*.wav)
 - QuickTime Movie (*.mov)
 - MPEG4 file (*.mp4)
 - 3GPP file (*.3gp, *.3g2, *.amc)
 - AAC file (*.aac, *.m4a)
 - Sony/Sonicfoundry Wave64 file (*.w64)
 - Targa file (*.tga, *.targa, *.vda, *.icb, *.vst)
 - Windows Bitmap file (*.bmp, *.dib, *.rle)
 - JPEG file (*.jpg, *.jpeg)
 - DCF thumbnail file (*.thm)
 - Flash Pix file (*.fpx)
 - Flash Video (*.f4v)
 - ICO Decoder (*.ico, *.icon)
 - JPEG (*.ico, *.icon)
 - Multi-Picture format file (*.mpo)
 - RED file (*.R3D)
 - WMPhoto Decoder (*.wdp)
 - TIFF file (*.tif, *.tiff)
 - Photoshop file (*.psd)
 - JPEG File Interchange Format file (*.jfif)
 - Portable Network Graphics file (*.eps)
 - Mac Pict file (*.pic, *.pct, *.pict)
 - Quick Time Image file (*.qtif, *.qti, *.qif)
 - SGI file (*.sgi, *.rgb)
 - CompuServe GIF file (*.gif)
 - Windows Meta file (*.wmf, *.emf)
 - Maya IFF file (*.iff)
 - DPX (SAMPTE 268M-2003) file (*.dpx)
 - Quick Titler (*.etl)
 - MPEG Program Stream (*.mpg, *.mpeg, *.m2p, *.mp2, *.vob, *.vro)
 - MPEG Transport Stream (*.m2t)
 - MPEG HDD MOVIE (*.mod, *.tod)
 - MPEG Video Stream (*.mpv, *.m2v)
 - MPEG Audio Stream (*.mpa, *.m2a)
 - Dolby Digital (*.ac3)
 - MPEG Audio Layer-3 (*.mp3)
 - Windows Media Audio (*.wma)
 - Windows Media (*.wmv, *.asf)
 - XDCAM EX (*.mp4, *.avi, *.smi, *.xml)
 - MXF (*.mxf)
 - GF clip file (*.xml)
 - Infinity clip file (*.xml)
 - XF clip file (*.cif)
- * A separate codec is required for importing DivX files.

- * Use the source browser to import VOB files if they cannot be imported.
- * AIFF/AIFC files are PCM only.
- * Electronic Arts IFF files (*.iff) are not supported on EDIUS.



- When installing WIC codec as required, still image files in a format compatible with the WIC codec (such as RAW format of the camera) can also be imported.
- When installing WIC codec while EDIUS is running, restart EDIUS.

Registering a File to the Bin as a Clip

Select and register a source to the bin.

1 Click [Add Clip] in the bin.



The [Open] dialog box appears.

2 Select a file and set the following items if necessary.

[Poster frame]	Enter the timecode, or move the slider to the left and right to set the poster frame of the clip.
[Show properties]	Check this item to display the [Clip Properties] dialog box and view clip properties. <i>[Clip Properties] Dialog Box ▶ P197</i>
[Transfer to Project folder]	Transfer the clip to the project folder.
[Sequence clip]	Import the still image clips with sequential numbers in a single operation, and register them to the bin. <i>Registering Consecutive Still Images ▶ P156</i>
[Name]	To rename a clip registration in the bin, enter the new name of the clip.
[Comment]	Enter a comment.
[Clip color]	Color the display of clips.

3 Click [Open].



Alternative

- Click [File] on the menu bar, and click [Add Clip]. Select the source from the [Open] dialog box, and click [Open] to display the source clip on the Player. Click [Add Clip on Player to Bin] on the Player.
- Double-click a blank area of the clip view, select the source from the [Open] dialog box, and click [Open].
- Right-click a blank area in the clip view, and click [Add File]. Select the source from the [Open] dialog box, and click [Open].
- Open the folder containing the sources in Explorer, and drag and drop the source to register onto a folder in the clip view or folder view.

Registering Folders ▶ P157

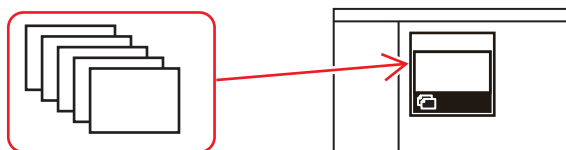
- Press [Ctrl] + [O] on the keyboard, select the source from the [Open] dialog box, and click [Open].

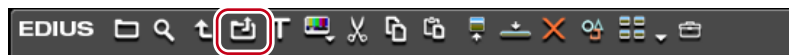


- You can also register sources displayed on the Player by dragging and dropping them onto the bin.
Registering Clips Displayed on the Player to the Bin ▶ P179

Registering Consecutive Still Images

Import the still image clips with sequential numbers in a single operation, and register them to the bin.



1 Click [Add Clip] in the bin.

The [Open] dialog box appears.


Alternative

- Adding clips: [Ctrl] + [O]

2 Select the first of the consecutive files, check [Sequence clip], and click [Open].

All of the consecutive still image files in the same folder are registered as a single sequence clip to the bin.

As consecutive files are regarded as a single sequence clip, if a file is missing in the sequence, files with subsequent numbers will not be imported.

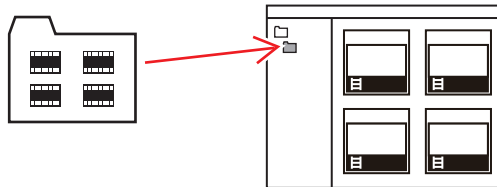
-  • You can divide a sequence clip registered to the bin into individual still image clips, or use it again as a sequence clip.

Canceling a Set Sequence ► P192

Joining Multiple Clips (Set as Sequence) ► P191

Registering Folders

Register a folder containing supported source formats with the folder structure held intact.

**1 In the folder view of the bin, right-click the folder to register, and click [Open Folder].**

The [Browse For Folder] dialog box appears.

2 Select a folder, and click [OK].

Alternative

- Display the folder in Explorer, and drag and drop the folder to register onto the folder displayed in the clip view or folder view.

Importing Files from Source Browser

Checking Files in External Devices that Interact with Source Browser

Files saved on external devices in which file-based video or audio is recorded (e.g. CD/DVD, AVCHD camera, removable media such as SD memory card, XDCAM EX device) can be checked in the source browser window.

Showing/Hiding Source Browser Window

Switch the show/hide setting for the source browser window.

1 Click [View] on the menu bar, and click [Source Browser].

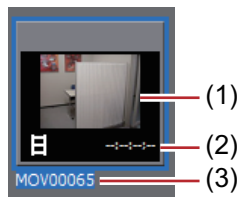
- When the show/hide setting for the source browser window is switched, the show/hide setting for the bin window or palette tabs combined with the source browser window is also switched. To toggle the show/hide setting individually, release the association of the window and the palette.

Combining Bin Window/Source Browser Window with a Palette ▶ P117

Source Browser Clip Display

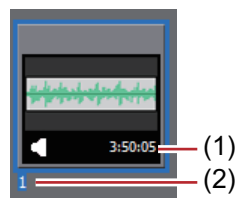
In the source browser, source files are displayed as clips. Three types of clips are displayed: video clips, audio clips and still image clips.

Video clip



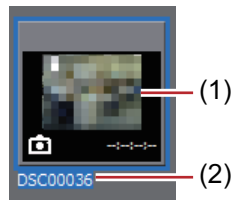
(1)	Poster frame	The main image of the clip
(2)	Start timecode/end timecode	Displays the start and end timecodes of the clip. For clips on DVD or removable media, the duration is displayed.
(3)	Clip name	Displays the clip name.

Audio clip



(1)	Start timecode/end timecode	Displays the start and end timecodes of the clip. For clips on CD or removable media, the duration is displayed.
(2)	Clip name	Displays the clip name.

Still image clip



(1)	Thumbnail display	Displays the thumbnail.
(2)	Clip name	Displays the clip name.

Selecting Clips

Clips are selected in the source browser in the same way as in the bin.
Selecting Clips ▶ P200

Sorting Clips

Clips are sorted in the source browser in the same way as in the bin.
Sorting Clips ▶ P202

 **Note**


- Clips on CD/DVD can be sorted only in the detailed clip view.

Switching the Display Folder

Displayed folders are switched in the source browser in the same way as in the bin.
Switching the Display Folder ▶ P204

Checking Clip Properties

Clip details such as the frame rate and start timecode of clips can be checked.

-  • The properties of clips on CD/DVD cannot be checked.
- Duration, file size and other clip properties can be checked when the clip view is switched to the detailed clip view.
Clip View Display ▶ P139

1 Select a clip in the clip view, and click [Properties] in the source browser.



The [Clip Properties] dialog box appears.
[Clip Properties] Dialog Box ▶ P159

 **Alternative**

- Right-click a clip and click [Properties].
- Checking properties: [Alt] + [Enter]

2 Confirm the details, and click [OK].

[Clip Properties] Dialog Box

The displayed tab varies according to the type of clip.

[File info] tab	Check type, data size, and other details of files.
------------------------	--

[Video info] tab	Check the start TC (timecode) and end TC, or image size, poster frame, aspect ratio, color correspondence range, field order, codec, frame rate, and other information.
[Stereoscopic info] tab	If a clip is not a stereoscopic clip, divide a clip to handle it as a stereoscopic clip. <i>Handling Non-Stereoscopic Clips as Stereoscopic Clips</i> ▶ P196
[Audio info] tab	Check the start and end TCs, re-acquire wave information (waveform representation of audio), and check the playback settings.
[Still image info] tab	Check the format or image size, duration, aspect ratio, and color correspondence range.

Searching by the Simple Search Bar

Clips are searched for by the simple search bar in the source browser in the same way as in the bin.

Searching by the Simple Search Bar ▶ P206

Copying and Importing Files in External Devices that Interact with Source Browser

To import files saved on external devices in which file-based video or audio is recorded (e.g. CD/DVD, AVCHD camera, removable media such as SD memory card, XDCAM EX device) to EDIUS, perform from the source browser. Sources imported from the source browser are registered to the current folder on the bin at the same time that they are transferred to hard disk on the PC.



- You can set the transfer destination used when importing files by clicking [Application] in [System Settings] → [Source Browser].
[Source Browser] ▶ P78

Points to Be Checked before Importing Sources

Source files can be imported easily in the source browser from CD/DVD/AVCHD camera/removable media/XDCAM EX/GF/Infinity/P2/XDCAM/XF devices. Files can be checked immediately or transferred in the background by simply connecting a device or drive to your PC and inserting the storage media.

Importing from CD/DVD ▶ P161

Importing from Digital Camera ▶ P161

Importing Sources from XDCAM EX Devices ▶ P162

Importing GF Sources ▶ P163

Importing Infinity Sources ▶ P163

Importing P2 Sources ▶ P165

Importing from XDCAM Devices ▶ P165

Importing XF Sources ▶ P167

Importing Stereoscopic Sources ▶ P168

When importing XDCAM sources or K2 sources via the FTP server, set the FTP server connection settings in the system settings in advance to import sources easily from the source browser.

K2 (FTP) Connection Settings ▶ P81

K2 Browser Settings ▶ P82

Importing K2 Sources from a Server ▶ P164

XDCAM Connection Settings ▶ P84

XDCAM Importer Settings ▶ P85

XDCAM Browser Settings ▶ P85

Importing XDCAM Sources from a Server ▶ P166

Downloading XDCAM Sources and Simultaneously Placing Them on the Timeline ▶ P167

K2 sources copied to the hard disk on the PC can be converted to MXF files using the source browser.

Converting and Importing K2 Sources on the PC ▶ P164

When each of the sources has been copied to the hard disk with the folder structure held intact, the sources can be imported simply from the source browser if the reference folder is set up in the system settings in advance.

[Audio CD/DVD] ▶ P79

[Removable Media] ▶ P84

[XDCAM EX] ▶ P84

[GF] ▶ P80

[Infinity] ▶ P81

[P2] ▶ P83

XDCAM Browser Settings ▶ P85

[XF] ▶ P86

Importing from CD/DVD

Video or audio on CD/DVD disc can be imported. Capture settings can be checked and changed by [Importer/Exporter] in [System Settings] → [Audio CD/DVD].

[Audio CD/DVD] ▶ P79

The following file formats can be imported.

- Audio CD: WAV file
- DVD-Video: MPEG-2 file
- DVD-VR: MPEG-2 file



- DVD-RW and DVD-RAM DVD-VR formats are supported.



Note

- Sources cannot be imported from copy-protected disks.

The following explains the procedure for importing Audio CD. The procedure for importing DVD-Video and DVD-VR is the same.

Example:

Importing Audio CD

1 Insert the disk into the drive.

2 Click the **[Audio CD/DVD]** tree in the folder view of the source browser, and click a drive.

Information on the disc is displayed in the clip view. The display content varies according to the inserted disk.

For Audio CD, select and double-click a track, or select and right-click a track, and then click [Play] to play back a track.



- When a CD Extra has been inserted into the drive, only audio tracks are displayed.

3 Select the track to import, and click **[Add and Transfer to Bin]** in the source browser.



Multiple tracks also can be selected.

Data transfer to the PC is started in the background. You can check transfer progress.

Checking the Progress of Background Jobs ▶ P168

When the import is completed, the clip is registered to the bin.



Alternative

- Right click on the track to import, and click [Add and Transfer to Bin].



- To adjust the speed of the import from the drive, select and right-click a track, and select the speed (within the range supported by the drive). When noise occurs during the capture, this may be remedied by slowing down the import speed.

Importing from Digital Camera

Sources can be imported from AVCHD camera and removable media such as SD memory card, memory sticks and BD. Sources are registered to the bin at the same time that they are transferred to the PC.

Connect the AVCHD camera or removable media to the PC, and check that the power is turned on. For more information on connection methods, see the manual for your device.

Sources can be imported in the same way even when files on devices have been copied to the hard disk on the PC with the folder structure held intact.

- Supported formats are AVCHD, BD, SD-Video, Memory Stick Video, and DCF (still images saved in digital camera file format). Only the BDMV format is supported for BD.

Note

- Sources cannot be imported from copy-protected disks.

1 Click the [Removable Media] tree in the folder view of the source browser.

The drive connected to your PC is recognized, and is displayed in the folder view tree.

2 Insert the storage media into the drive.

3 Click the media name.

Information on the media is displayed in the clip view.

Folders are sometimes categorized by type in the layer under the drive depending on the connected device.

- When files in the AVCHD camera or removable media have been copied to the hard disk on the PC, right-click [Removable Media], and click [Open Folder] to specify the reference. References can be deleted from the tree display by right-clicking a folder and clicking [Delete] only when they have been added from the tree display in the source browser. Actual folders are not deleted.
 - To update the information on media, right-click [Removable Media] and click [Refresh].

4 Select the file to import, and click [Add and Transfer to Bin] in the source browser.



Data transfer to the PC is started in the background at the same time that the file is registered to the bin as a clip.

Checking the Progress of Background Jobs ▶ P168

Alternative

- Right-click the file to import, and click [Add and Transfer to Bin].

Importing Sources from XDCAM EX Devices

Register sources to the bin at the same time that they are transferred to the PC from SxS memory card.

Connect the XDCAM EX device to the PC, and check that the power is turned on.

Sources can be imported in the same way even when files on SxS memory cards have been copied to the hard disk on the PC with the folder structure held intact.

- Before importing sources recorded across multiple SxS memory cards as a single clip, combine the clips in the XDCAM EX Clip Browser software in advance. For more information on XDCAM EX Clip Browser, see the manual provided with the XDCAM EX device.

1 Click the [XDCAM EX] tree in the folder view of the source browser.

2 Click the drive.

Information on the SxS memory card is displayed in the clip view.

- When files on the SxS memory card have been copied to the hard disk on the PC, right-click [XDCAM EX], and click [Open Folder] to specify the reference. References can be deleted from the tree display by right-clicking a folder and clicking [Delete] only when they have been added from the tree display in the source browser. Actual folders are not deleted.
 - To update the information of the device, right-click [XDCAM EX] and click [Refresh].

3 Select the clip to import, and click [Add and Transfer to Bin] in the source browser.



Data transfer to the PC are started in the background at the same time that the clip is registered to the bin.

Checking the Progress of Background Jobs ▶ P168

Alternative

- Right-click the clip to import, and click [Add and Transfer to Bin].

- Take clips are registered to the current folder of the bin as a sequence clip.

Importing GF Sources

Register sources on GF devices to the bin at the same time that they are transferred to the PC. Connect the GF device to the PC, and check that the power is turned on.

GF sources copied to the hard disk on the PC also can be imported in the same way. Copy sources with the folder structure in the device held intact.

Note

- The drivers provided with the GF device must be installed in advance.

1 In the folder view of the source browser, click the [GF] tree, and click the drive or reference folder tree.

2 Click [My BinXXX] or [PlayList].

The GF sources are displayed in the clip view.



- Reference folders can be temporarily added in the folder view of the source browser. Right-click [GF] and click [Open Folder].
- When references have been temporarily added in the source browser, they can be deleted by right-clicking a folder and clicking [Delete]. Actual folders are not deleted.
- To update the information of references, right-click [GF] and click [Refresh].

3 Select the clip or playlist to import, and click [Add and Transfer to Bin] in the source browser.



Data transfer to the PC is started in the background at the same time that the clip or playlist is registered to the bin.

Checking the Progress of Background Jobs ▶ P168



Alternative

- Right-click the clip or playlist to import, and click [Add and Transfer to Bin].



- Playlists are registered to the current folder of the bin as a sequence clip.
- Partial transfer is available, where In and Out points are set to files on the GF device and only required parts are transferred to the hard disk.

Transferring Only Necessary Parts ▶ P171

Importing Infinity Sources

Register sources on Infinity devices to the bin at the same time that they are transferred to the PC.

Connect the Infinity device to the PC, and check that the power is turned on.

Infinity sources copied to the hard disk on the PC also can be imported in the same way. Copy sources with the folder structure in the device held intact.

Note

- The drivers provided with the Infinity device must be installed in advance.

1 In the folder view of the source browser, click the [Infinity] tree, and click the drive or reference folder tree.

2 Click [Clip] or [Playlists].

The Infinity sources are displayed in the clip view.



- Reference folders can be temporarily added in the folder view of the source browser. Right-click [Infinity] and click [Open Folder].
- When references have been temporarily added in the source browser, they can be deleted by right-clicking a folder and clicking [Delete]. Actual folders are not deleted.
- To update the information of references, right-click [Infinity] and click [Refresh].


3 Select the clip or playlist to import, and click [Add and Transfer to Bin] in the source browser.



Data transfer to the PC is started in the background at the same time that the clip or playlist is registered to the bin.

Checking the Progress of Background Jobs ▶ P168

 **Alternative**

- Right-click the clip or playlist to import, and click [Add and Transfer to Bin].
-  • You can set the layer and downsample coefficient to be decoded when importing JPEG2000 format clips.
MXF Decoder Settings ▶ P83
- Playlists are registered to the current folder of the bin as a sequence clip.
- Partial transfer is available, where In and Out points are set to files on the Infinity device and only required parts are transferred to the hard disk.
Transferring Only Necessary Parts ▶ P171

Importing K2 Sources from a Server


Download GXF files on the K2 Media server via FTP, convert them to MXF files for import, and register them to the bin.

 **Note**

- Set in advance items that are allowed when connecting to the FTP server or to the K2 Media server.
K2 (FTP) Connection Settings ▶ P81
K2 Browser Settings ▶ P82

1 Click the [K2 (FTP)] tree in the folder view of the source browser, and click a connection destination.

Information on the server is displayed in the clip view.

-  • To update the information of the server, right-click the connection destination, and click [Refresh].


2 Select and right-click the clip to import, and click [Add and Transfer to Bin].

Data transfer to the hard disk and conversion are started in the background at the same time that the clip is registered to the bin.

During transfer and conversion of the clip, the letter [H] is displayed on the clip icon in the bin.

Checking the Progress of Background Jobs ▶ P168

The clip can be edited with EDIUS even during transfer and conversion.

-  • If [Allows Users to Rename/Delete Clips.] is checked in the K2 browser settings, the following operations can be performed in the clip view of the source browser.
 - Click a clip name and rename it.
 - Right-click a clip and click [Delete] to delete it.

 **Note**

- When a clip is right-clicked in the clip view, and [Delete] is clicked to delete the clip, the file on the server is also deleted.

Converting and Importing K2 Sources on the PC

Convert K2 sources copied to the hard disk on the PC to MXF files, and register them to the bin.

1 Click the [K2 (FTP)] tree in the folder view of the source browser.

2 Click [Convert file(s)] in the source browser.



 **Alternative**

- In the folder view of the source browser, right-click [K2 (FTP)] , and click [Convert file(s)].

3 Select a GXF file, and click [Open].

Multiple GXF files can also be selected.

Conversion to the MXF file is started in the background at the same time that the clip is registered to the bin.

Checking the Progress of Background Jobs ▶ P168

The clip can be edited with EDIUS even during conversion.

Importing P2 Sources

Register P2 sources to the bin at the same time that they are transferred to the PC.

Connect the P2 device to the PC, and check that the power is turned on.

P2 sources copied to the hard disk on the PC also can be imported in the same way. Copy sources with the folder structure in the device held intact.



- Sources in 3D P2 format can also be imported. Insert two P2 cards into the slot.

Importing Stereoscopic Sources ▶ P168



Note

- The drivers provided with the P2 device must be installed in advance.

1 Click the [P2] tree in the folder view of the source browser.

2 Click the drive or reference folder.

The P2 sources are displayed in the clip view.



- Reference folders can be temporarily added in the folder view of the source browser. Right-click [P2] and click [Open Folder].
- When references have been temporarily added in the source browser, they can be deleted by right-clicking a folder and clicking [Delete]. Actual folders are not deleted.
- To update the information of references, right-click [P2] and click [Refresh].

3 Select the clip to import, and click [Add and Transfer to Bin] in the source browser.



Data transfer to the PC is started in the background at the same time that the file is registered to the bin as a clip.

Checking the Progress of Background Jobs ▶ P168



Alternative

- Right-click the clip to import, and click [Add and Transfer to Bin].



- Clip names registered to the bin are “user clip name” when a user clip name has been set to the P2 clip, and “clip name” when a user clip name has not been set.
- When editing with EDIUS, P2 clips can be used in the same way as AVI clips. When editing from hard disk, realtime performance becomes the same as that of AVI files of the same format. When editing directly from the P2 drive, performance becomes 2 stream realtime in the case of DV, and 1 stream realtime in the case of DVCPRO50. (The above performances are based on the measurement by Grass Valley. CPU performance varies depending on your system.)
- Partial transfer is available, where In and Out points are set to files on the P2 device and only required parts are transferred to the hard disk.

Transferring Only Necessary Parts ▶ P171

Importing from XDCAM Devices

Register XDCAM sources to the bin at the same time that they are transferred to the PC.

Before importing sources from XDCAM devices, connect the device to the PC via the IEEE1394 interface, and check that the power is turned on.

XDCAM sources copied to the hard disk on the PC and proxy clips recorded on USB memory also can be imported in the same way. When copying sources to hard disk on the PC, copy sources with the folder structure in the device held intact.

Import settings can be checked and changed by [Importer/Exporter] in [System Settings] → [XDCAM] → [Browser].

XDCAM Browser Settings ▶ P85



- For more information on the IEEE1394 connection method, see the manual packaged with XDCAM.
- The SAM mode is supported.




Note

- The drivers provided with the XDCAM device must be installed in advance.

1 Click the [XDCAM] tree in the folder view of the source browser.

2 Click the drive or reference folder.

The XDCAM sources are displayed in the clip view.

-  • Reference folders can be temporarily added in the folder view of the source browser. Right-click [XDCAM] and click [Open Folder].
- When references have been temporarily added in the source browser, they can be deleted by right-clicking a folder and clicking [Delete]. Actual folders are not deleted.
- To update the information of references, right-click [XDCAM] and click [Refresh]. If it takes time to display the thumbnail for a clip, press [Esc] on the keyboard to stop refreshing of the list.

3 Select the clip to import, and click [Add and Transfer to Bin] in the source browser.




Data transfer to the PC is started in the background at the same time that the clip is registered to the bin.

Checking the Progress of Background Jobs ▶ P168

The clip can be edited with EDIUS even during transfer.

 **Alternative**

- Right-click the clip to import, and click [Add and Transfer to Bin] → a clip type.

-  • Partial transfer is available, where In and Out points are set to files on the XDCAM device and only required parts are transferred to the hard disk. A message will appear if no connection has been made to the directory where the high-resolution data is saved when partial transfer is performed on the XDCAM clip. Insert the disk, and click [OK].

Transferring Only Necessary Parts ▶ P171

Importing XDCAM Sources from a Server

Import XDCAM sources via FTP, and register them to the bin.

Import settings can be checked and changed by [Importer/Exporter] in [System Settings] → [XDCAM] → [Browser].

XDCAM Browser Settings ▶ P85

 **Note**


- Set up the FTP server connection in advance.

XDCAM Connection Settings ▶ P84

1 Click the [XDCAM] tree in the folder view of the source browser.

2 Click the server.

Information on the server is displayed in the clip view.

-  • To update the information of the server, right-click the connection destination, and click [Refresh].

3 Select the clip to import, and click [Add and Transfer to Bin] in the source browser.




Data transfer to the PC starts in the background at the same time that the clip is registered to the bin.

Checking the Progress of Background Jobs ▶ P168

The clip can be edited with EDIUS even during transfer.

 **Alternative**

- Right-click the clip to import, and click [Add and Transfer to Bin] → a clip type.

-  • Partial transfer is available, where In and Out points are set to XDCAM files on the server and only required parts are transferred to the hard disk. A message will appear if no connection has been made to the directory where the high-resolution data is saved when partial transfer is performed on the XDCAM clip. Set up the FTP connection, and click [OK].

Transferring Only Necessary Parts ▶ P171

Downloading XDCAM Sources and Simultaneously Placing Them on the Timeline

Data transfer to the hard disk on the PC is started at the same time that XDCAM clips on the FTP server or clips on XDCAM devices are placed directly on the timeline without being registered to the bin. The data (proxy/high-resolution) transferred at this time can be checked and changed by [Importer/Exporter] in [System Settings] → [XDCAM] → [Download] in [Browser].

XDCAM Browser Settings ▶ P85

Note

- Downloading XDCAM sources simultaneously with placement on the timeline is possible only by operating the buttons in the source browser or by right-clicking a clip and operating from the displayed menu. Also, If clips are placed on the timeline by drag-and-drop operation, the proxy of XDCAM devices is referenced directly without being transferred to the hard disk on the PC.

1 Set the channel mapping for the tracks on which clips are placed.

Setting Channel Mapping ▶ P225

2 Move the timeline cursor to the position to place the clip.

3 Click the [XDCAM] tree in the folder view of the source browser.

4 Click the drive or connection destination.

5 Select a clip, and click [Add to Timeline] in the source browser.



Alternative

- Right-click the clip to import, and click [Add to Timeline] → an item.

Importing XF Sources

Register XF sources to the bin at the same time that they are transferred to the PC.

Connect the XF device to the PC, and check that the power is turned on.

XF sources copied to the hard disk on the PC also can be imported in the same way. Copy sources with the folder structure in the device held intact.

Note

- The drivers provided with the XF device must be installed in advance.

1 Click the [XF] tree in the folder view of the source browser.

2 Click the drive or reference folder.

The XF sources are displayed in the clip view.



- Reference folders can be temporarily added in the folder view of the source browser. Right-click [XF] and click [Open Folder].
 - When references have been temporarily added in the source browser, they can be deleted from the tree display by right-clicking a folder, and clicking [Delete]. Actual folders are not deleted.
 - To update the information of references, right-click [XF] and click [Refresh].

3 Select the clip or playlist to import, and click [Add and Transfer to Bin] in the source browser.



Data transfer to the PC is started in the background at the same time that the clip or playlist is registered to the bin.

Checking the Progress of Background Jobs ▶ P168

Alternative

- Right-click the clip or playlist to import, and click [Add and Transfer to Bin].

- Clips that have been recorded across multiple media are registered to the current folder on the bin as a sequence clip.
- Partial transfer is available, where In and Out points are set to files on the XF device and only required parts are transferred to the hard disk.

Transferring Only Necessary Parts ▶ P171

Importing Stereoscopic Sources

Register file-based stereoscopic sources to the bin at the same time that they are transferred to the PC.

Example:

To import sources in 3D P2 format

- 1 Insert two P2 cards into the slot.
 - 2 Click the [P2] tree in the folder view of the source browser.
 - 3 Click the drive displayed as [Stereoscopic].
- The stereoscopic sources are displayed in the clip view. The stereoscopic sources are marked with the “S” icon.
- 4 Select the clip to import in the [L] or [R] folder, and click [Add and Transfer to Bin] in the source browser.



Data transfer to the PC starts in the background at the same time that the stereoscopic clip is registered to the bin.

Checking the Progress of Background Jobs

 ▶ P168

- If sources are imported from the drive that is not displayed as [Stereoscopic], the L side or the R side source will be imported separately.

Checking the Progress of Background Jobs

The following explains how to check the progress of processing (background jobs) such as file transfer that is executed in the background and how to pause/restart processing.

The execution progress of background jobs can be checked on the status bar in the timeline window or the clip display.

Status Bar Display in Timeline Window

The status bar displays the number of background jobs and an icon indicating the current state of background jobs.

Executing

This is displayed when a background job is executing. This icon is displayed also when EDIUS is executing automatically run jobs such as creation of seek information or creation of audio waveforms.



Standing by/suspended

This is displayed when there are no background jobs and when a background job has been canceled.



Paused

This is displayed when a background job is paused.

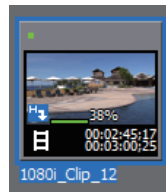


Bin Clip Display

The icon indicating that the background job is executing is displayed, and progress is displayed as a progress bar and a percentage.

Example:

Clips registered in the bin are being transferred to the project folder.



Transfer Status Detailed Display

In the [Background Job] dialog box, detailed transfer status can be checked, and the background jobs can be paused and deleted, for example.

- 1 Click [Show Background Job] in the source browser.



The [Background Job] dialog box appears.

[Background Job] Dialog Box ▶ P169

Alternative

- Click [View] on the menu bar, and click [Background Job].

Note

- The confirmation message for the background job process will appear if the sequence is imported or consolidated, or the project file is closed, for example, while there is still a background job that has not finished executing. Click [Show Unfinished Job Info] to display the [Background Job] dialog box. Click [Quit Unfinished Jobs] to delete all jobs.
- If execution of a background job is canceled when data is transferred from Audio CD/DVD, the job will be deleted from the job list the moment that it is canceled.

[Background Job] Dialog Box

Job list	Displays jobs currently executing and waiting to be executed in a list. To cancel execution of a job, select the job and right-click, and click [Stop] or [Stop All]. To delete a job, select the job and right-click, and click [Delete]. To pause or resume execution of a job, select the job and right-click, and click [Pause] or [Restart].
[Pause Background Jobs During Playback]	Check this item to pause the execution of the job while the Player or timeline is being played back.
[Pause]/[Resume]	Pause or resume execution of all jobs by selecting and clicking the jobs.
[Close]	Close the [Background Job] dialog box. Closing the dialog box will not affect the executing state of the background jobs.

Directly Importing Files on External Devices that Interact with Source Browser

The following explains how to register sources on external devices that interact with the source browser directly to the bin or place them on the timeline without transferring them to your PC.

Directly Registering Sources to Bin from Various Devices

Directly register clips in various devices to the bin without transferring them to the hard disk on the PC.

Note

- Sources in CD/DVD cannot be referenced directly and imported.
- XDCAM sources on the FTP server cannot be registered directly to the bin.

1 Select a clip in the source browser, and click [Add to Bin].

For more information on referencing each device in the source browser, see the procedures for importing from respective devices in “Copying and Importing Files in External Devices that Interact with Source Browser”.

Importing from Digital Camera ▶ P161

Importing Sources from XDCAM EX Devices ▶ P162

Importing GF Sources ▶ P163

Importing Infinity Sources ▶ P163

Importing P2 Sources ▶ P165

Importing from XDCAM Devices ▶ P165

Importing XF Sources ▶ P167



Alternative

- Right-click the clip to import, and click [Add to Bin].
- Drag and drop the clip to import onto the bin.



- XDCAM EX clips can be directly registered to the bin from the XDCAM EX Clip Browser. Drag and drop the clips onto the bin window from the Explorer window of the XDCAM EX Clip Browser.

Note

- Clips become offline clips when the connection to the device is canceled.

Restoring Offline Clips ▶ P66

Directly Placing Sources on Timeline from Various Devices

Directly place clips on various devices on the timeline without transferring them to the hard disk on the PC.



- XDCAM sources on the FTP server can be downloaded at the same time that they are directly placed on the timeline.

Downloading XDCAM Sources and Simultaneously Placing Them on the Timeline ▶ P167

Note

- Sources in CD/DVD cannot be referenced directly and placed on the timeline.

1 Set the channel mapping for the tracks on which clips are placed.

Setting Channel Mapping ▶ P225

2 Move the timeline cursor to the position to place the clip.

3 Select a clip in the source browser, and click [Add to Timeline].

For more information on referencing each device in the source browser, see the procedures for importing from respective devices in “Copying and Importing Files in External Devices that Interact with Source Browser”.

Importing from Digital Camera ▶ P161

Importing Sources from XDCAM EX Devices ▶ P162

Importing GF Sources ▶ P163

Importing Infinity Sources ▶ P163

Importing P2 Sources ▶ P165

Importing from XDCAM Devices ▶ P165

Importing XF Sources ▶ P167



Alternative

- Right-click the clip to import, and click [Add to Timeline].
- Drag and drop the clip to import onto the timeline.

Note

- Clips become offline clips when the connection to the device is canceled.

Restoring Offline Clips ▶ P66

Transferring Only Necessary Parts

Only necessary parts can be copied when Grass Valley HQ or DV codec AVI files, for example, are imported to the hard disk on the PC.

Note

- Sources in CD/DVD cannot be partially copied and imported.
- Sources in removable media, such as AVCHD camera or digital camera, or XDCAM EX cannot be partially copied and imported.

Automatic Partial Transfer at Addition to the Timeline/Registration to the Bin

You can set to automatically copy the data between In and Out points when importing a file on a device to the timeline or the bin after displaying that file on the Player and setting the In and Out points.

Registering Clips on the Player to the Bin ▶ P179

Registering between In and Out Points to the Bin As a Separate Clip (Subclip) ▶ P180

Setting In/Out Points and Placing Clips ▶ P230

Note

- Sources that are incompatible with partial transfer are not transferred by this operation, and are added directly to the bin/timeline.

- 1 Click [Settings] on the menu bar, and click [User Settings].**
- 2 Click the [Source] tree, and click [Partial Transfer].**
- 3 Select [Target Clip], and check the required items in [Auto Transfer].**

[Target Clip]	Select the source to be partially transferred. When [Only from Removable Media] is selected, only clips directly referencing files on the device are targeted for partial transfer. When [From Removable Media and Hard Drive] is selected, both clips directly referencing files on the device and clips referencing files on the hard disk are targeted for partial transfer. When [Exclude Project Folder Drive] is unchecked, clips under the project folder are also targeted for partial transfer.
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<p>[Auto Transfer]</p>	<p>[When Added to the Timeline from Player] Check this item to execute partial transfer when the clip displayed on the Player has been placed on the timeline.</p> <p>[When Added to the Bin from Player] Checking this item executes partial transfer when the clip displayed on the Player has been added to the bin.</p>
<p>[Margin]</p>	<p>Set the margin to add.</p>

- 4 Click [OK].
- 5 Display the file in the device on the Player, and set the In and Out points.
- 6 Operate the buttons to add the clip to the timeline/bin.



Partial transfer is executed automatically according to the settings made above.
 Partially transferred files are saved in the “Transferred” folder under the project folder.

Note

- Partial transfer is not executed automatically when a source has been dragged and dropped from the Player onto the timeline or bin.
- When a source in BD is added to the timeline or bin, partial transfer sometimes is automatically executed with chapters taken as the In and Out points even if the In and Out points have not been set on the Player.

Transferring Only Necessary Parts

When clips are directly referencing files in each device, only parts currently in use can be batch-copied to hard disk.

- 1 Click [File] on the menu bar, and click [Partial Transfer] → an item.

Partial transfer is started in the background, and the transferred file is saved under the project folder.

To cancel a partial transfer, select and right-click the job in the [Background Job] dialog box, and click [Stop] or [Stop All].

[Background Job] Dialog Box ▶ P169

- In the case of sources that are incompatible with partial transfer, a message is displayed so that you can select whether to transfer the entire source.
- When a clip after partial transfer has become an offline clip, [Transfer the Missing Area] or [Undo transfer] can be selected from the [Restoration Method] list in the [Restore and Transfer Clips] dialog box.
- When a clip partially transferred with EDIUS 5 is in use, it can be returned to its original clip. Right-click the partially transferred clip, and click [Replace Partially Downloaded Clip with Original Clip]. When a clip directly referencing a file on a device has been partially transferred, the link destination is returned to the file on the device from the file after transfer.

Playing Back Sources

Playing Back and Checking Sources

Playback with Player Operation Buttons

You can play back or move sources in individual frame units using the operation buttons on the Player.

Playing Back with Recorder Operation Buttons ► P287

Operation Button Settings ► P119

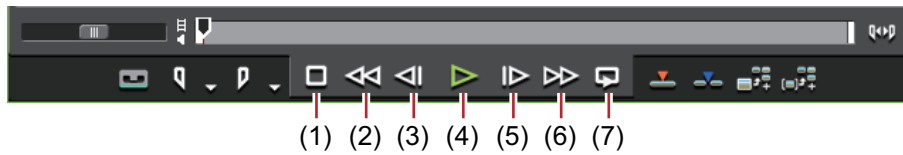
1 Click [Play] on the Player.

Playback starts on the Player.

2 Click [Stop] on the Player.

Playback stops.

Player Operation Buttons



(1)	[Stop]	Stop playback. [K], [Shift] + [↓]
(2)	[Review]	Rewind a source. Each click switches the playback speed in the reverse direction between 4 times and 12 times. [J] ^{*1}
(3)	[1 Frame Back]	Each click rewinds one frame at a time in the reverse direction. Keeping this button clicked plays back the source at the same speed in the reverse direction. In the case of deck operation, rewind is performed one frame at a time. [←]
(4)	[Play]	Play back the source in the forward direction. When this button is clicked during playback, playback pauses. Click again to restart playback. [Enter], [Space]
(5)	[Next Frame]	Each click forwards one frame at a time in the forward direction. Keeping this button clicked plays back the source at the same speed in the forward direction. In the case of deck operation, forwarding is performed one frame at a time. [→]
(6)	[Fast Forward]	Fast forward playback. Each click switches the fast forward playback speed between 4 times and 12 times. [L] ^{*2}
(7)	[Loop] ^{*3}	Repeatedly play back between In and Out points. If no In point is set, the source is repeatedly played back from the beginning, or if no Out point is set, the source is repeatedly played back to the end. If In and Out points have been set for audio, the source is played from the first In point to the last Out point, including the In and Out points for video. [Ctrl] + [Space]

*1 Each press of [J] on the keyboard switches the rewind speed in 6 levels between 2 to 32 times. Press [L] to slow down the rewind speed. Press this key with the source paused to play back at the same speed in the reverse direction.

*2 Each press of [L] on the keyboard switches the fast-forward speed in 6 levels between 2 to 32 times. Press [J] to slow down the fast-forward speed. Press it while pausing to play back at the same speed in the forward direction.

*3 Loop playback cannot be set for external sources. [Loop] is replaced with [Pause].

Note

- When using a deck, fast-forward and rewind operations may be limited depending on the deck. Also, [Loop] will function as pause.

Playing Back with Shuttle/Slider

You can play back a source by dragging the shuttle or slider on the Player.

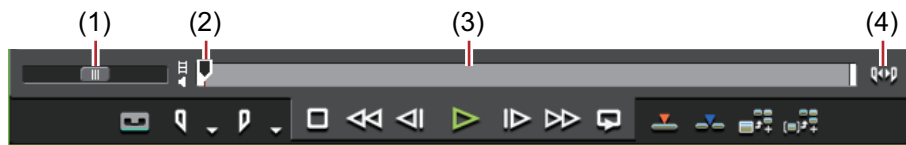
Note

- Sources that have not been captured cannot be played back by the slider.

1 Drag the shuttle/slider.

A frame at the slider position is displayed on the Player.

Shuttle/Slider



(1)	Shuttle	Drag the shuttle to the left and right to play back in the reverse and forward directions, respectively. Release dragging to return the shuttle to the center and pause playback. The playback speed can be selected in 21 levels both in the forward and reverse directions, from 1/20 to 16 times.
(2)	Slider	Click any position on the position bar to move the slider and display the frame for that position. You can also drag the slider.
(3)	Position bar	Displays the timeline of the source displayed on the Player.
(4)	[Switch Display Range]	Switch the display range on the Player between In and Out points only or the entire source.

Alternative

- Shuttle (fast forward): [Ctrl] + [L] (Each click of [Ctrl] + [L] on the keyboard switches the fast-forward speed in 12 levels between 1/16 to 32 times. Press [Ctrl] + [J] on the keyboard to slow down.)
- Shuttle (rewind): [Ctrl] + [J] (Each click of [Ctrl] + [J] on the keyboard switches the rewind speed in 12 levels between 1/16 to 32 times. Press [Ctrl] + [L] on the keyboard to slow down.)

Playing Back with Mouse (Mouse Gesture)

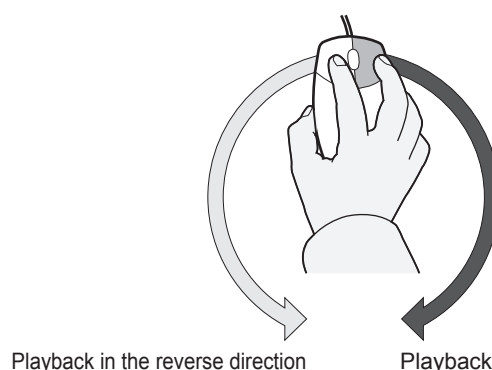
You can play back a source by moving the mouse on the Player.

Note

- Sources displayed in the deck mode cannot be played back with mouse operations.

1 Position the mouse cursor on the Player, and move the mouse as if to draw a circle, with the right mouse button clicked.

Draw the circle clockwise to playback in the forward direction, and counterclockwise in the reverse direction. The playback speed changes in proportion to the speed of the mouse action.



Alternative

- Place the mouse cursor on the Player, and rotate the mouse wheel.

Displaying Clips on the Player

Display clips registered to the bin or clips displayed in the source browser on the Player.

Note

- Clips displayed in the source browser sometimes cannot be displayed on the Player depending on the external device or state of the clip.

1 Select a clip in the clip view, and click [Show in Player] in the bin or in the source browser.

Example:

Bin



Example:

Source browser



2 Click [Play] on the Player.



Playback with Player Operation Buttons ▶ P173

Alternative

- Drag a clip, and drop it onto the Player screen.
- Right-click a clip and click [Show in Player].
- Double-click a clip.
- Select a clip, and press [Enter].

Setting In and Out Points to Sources

The following explains how to set In and Out points to sources.

Note

- Operations other than setting and deleting the In and Out points cannot be performed on sources that have not been captured.

Setting the In and Out Points

Specify the In (start) and Out (end) points of the source. If the In and Out parts are specified in advance, only the part between those points can be captured or placed on the timeline.



- Set the In point
- Set the Out point

1 Play back the source, and click [Set In Point] on the Player at the frame to set as the In point.

2 Continue to play back the source, and click [Set Out Point] on the Player at the frame to set as the Out point.

Alternative

- Click [Marker] on the menu bar, and click [Set In Point] or [Set Out Point].
- Right-click the slider on the Player, and click [Set In Point] or [Set Out Point].
- Click the timecode at [In] or [Out] on the Player, and enter the desired numerical value.

- To set the In and Out points at the clip marker position, right-click the clip marker on the slider on the Player, and click [Set In Point] or [Set Out Point].
- Setting the In point: [I]
- Setting the Out point: [O]



- In the case of a clip registered to the bin or a clip displayed on the Player from the source browser, the positions of the In and Out points can be changed by dragging the In and Out sliders.



- When the Out point has been set before the In point, the position bar between In and Out points changes color to red and a part of the timecode on the Player is displayed in red.
- The duration can be changed based on the set In and Out points. Click the timecode at [Dur] on the Player, and enter the desired numerical value.
- If the In or Out point of the clip registered to the bin is added, changed or deleted, that operation will be automatically reflected on the clip in the bin. To leave behind the information of a clip before it is edited, register that clip to the bin as a different clip in advance.

Registering between In and Out Points to the Bin As a Separate Clip (Subclip) ▶ P180

In/Out Point Settings for Video/Audio

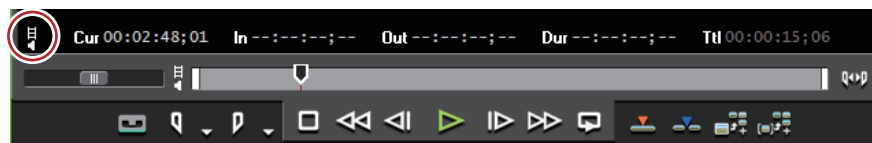
Set In and Out points separately for video parts and audio parts of a video clip with audio.



Note

- In and Out points cannot be set separately to video and audio of sources that have not been captured.

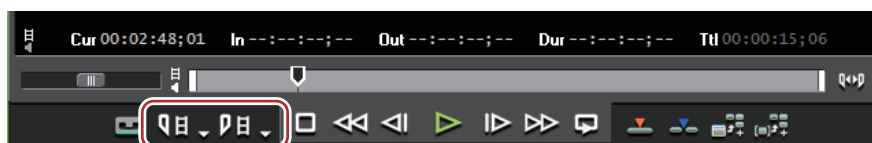
1 Click the video/audio mark on the timecode.



Each click switches the video/audio mark display between on and off. Display the mark of the part you want to set In and Out points.

Example:

To set In and Out points to video



[Set In Point] ([Set Out Point]) on the Player changes to [Set Video In] ([Set Audio In Point]) or [Set Video Out Point] ([Set Audio Out Point]).

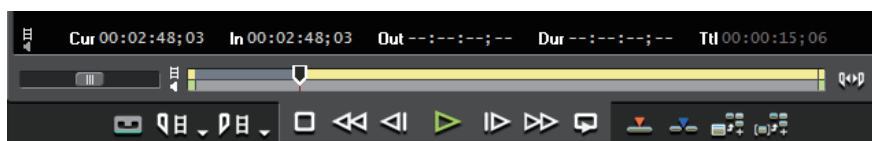


(): Setting the In point for video (audio)



(): Setting the Out point for video (audio)

2 Play back the clip, and click [Set Video In] ([Set Audio In Point]) on the Player at the frame to set as the In point.



The position bar is horizontally divided into two levels. The upper level is the video part, and the lower level is the audio part.

3 Continue to play back the source, and click [Set Video Out Point] ([Set Audio Out Point]) on the Player at the frame to set as the Out point.

Alternative

- Click the [Set In Point] ([Set Out Point]) list button on the Player at the frame to set as the In point, and click [Set Video In] ([Set Audio In Point]). Click [Set Video Out Point] ([Set Audio Out Point]) at the frame to set as the Out point.
- Click [Marker] on the menu bar, and click [Set Audio In Point] or [Set Audio Out Point].
- Right-click the slider on the Player, and click [Set Video In] ([Set Audio In Point]) or [Set Video Out Point] ([Set Audio Out Point]).
- Setting In/Out points for audio: [U]/[P]
- To set the In and Out points for video or audio at the clip marker position, right-click the clip marker on the slider on the Player, and click [Set Video In] ([Set Audio In Point]) or [Set Video Out Point] ([Set Audio Out Point]).

- The video (audio) In and Out points can be adjusted by dragging the In slider or Out slider of the video (audio) part. If the slider for the video part has been dragged, the following is displayed.



- Place the mouse cursor on the left or right edge of the position bar, and the mouse cursor changes shape. Click at that position while holding down [Ctrl], and the position bar is horizontally divided into 2 levels. If the slider for the video part has been dragged, the following is displayed.



- When In and Out points have been set only for the video part or the audio part, you can place only the video (audio) part on the track. When In and Out points have been set for both video and audio parts, you can place both of the clips on the timeline as a single clip.
- If the In and Out points of the video/audio of the clip registered to the bin is added, changed or deleted, that operation will be reflected automatically on the clip in the bin. To leave behind the information of a clip before it is edited, register that clip to the bin as a different clip in advance.

Registering between In and Out Points to the Bin As a Separate Clip (Subclip) ▶ P180

Note

- When In and Out points have been set in the video (audio) part, information for the audio (video) part will not be recognized.

Playback between In and Out Points (Loop Playback)

Repeatedly play back between In and Out points of a clip. Playback starts from the current position of the slider.

Playing Back with Shuttle/Slider ▶ P174

Note

- Loop playback cannot be performed on sources displayed in the deck mode.

1 Click [Loop] on the Player.



Playback starts from the current position of the slider.

Alternative

- Playback between In and Out points: [Ctrl] + [Space]

Moving to In and Out Points

Move the slider on the position bar to the In (Out) point.

Playing Back with Shuttle/Slider ▶ P174

1 Click the [Set In Point] ([Set Out Point]) list button on the Player.



2 Click [Go to In Point] ([Go to Out Point]).

To move to the In (Out) point of the video and audio parts, click [Go to Video In Point] ([Go to Video Out Point]) or [Go to Audio In Point] ([Go to Audio Out Point]).

Alternative

- Click [Set In Point] ([Set Out Point]) with [Shift] on the keyboard held down. The same operation can be performed by [Go to Audio In Point] ([Set Video Out Point]) or [Set Audio In Point] ([Set Audio Out Point]).
- Right-click the slider on the Player, and click [Go to In Point] ([Go to Out Point]). To move to the In (Out) point of the video and audio parts, click [Go to Video In Point] ([Go to Video Out Point]) or [Go to Audio In Point] ([Go to Audio Out Point]).
- Moving to In point: [Q]/[Shift] + [I]
- Moving to Out point: [W]/[Shift] + [O]
- Moving to In point of audio part: [Shift] + [U]
- Moving to Out point of audio part: [Shift] + [P]

Deleting the In and Out Points

Delete the In (Out) point.

1 Click the [Set In Point] ([Set Out Point]) list button on the Player.



2 Click [Clear In Point] ([Clear Out Point]).

Alternative

- In the case of captured sources displayed in the file mode, move the slider to the In (Out) point, and click [Set In Point] ([Set Out Point]) with [Shift] on the keyboard held down. The same operation can be performed by [Set Video In] ([Set Video Out Point]) or [Set Audio In Point] ([Set Audio Out Point]).
- Right-click the slider on the Player, and click [Clear In Point] ([Clear Out Point]). To delete to the In (Out) point of the video and audio parts, click [Clear Video In Point] ([Clear Video Out Point]) or [Clear Audio In Point] ([Clear Audio Out Point]).
- Deleting In point: [Alt] + [I]
- Deleting Out point: [Alt] + [O]

Registering Clips Displayed on the Player to the Bin

Registering Clips on the Player to the Bin

Register clips displayed on the Player to the bin.

Note

- Sources displayed in the deck mode on the Player cannot be registered directly to the bin.
- When registering a clip displayed on the Player to the bin from the source browser, the registered clip will directly reference the source on the device. When transferring the source to the PC at the same time that it is registered to the bin, register and transfer it to the bin from the source browser, or partially transfer the source.

Copying and Importing Files in External Devices that Interact with Source Browser ▶ P160

Automatic Partial Transfer at Addition to the Timeline/Registration to the Bin ▶ P171

1 Display clips on the Player.

Displaying Clips on the Player ▶ P175

Set the In and Out points, if necessary.

2 Click [Add Clip on Player to Bin] on the Player.



Alternative

- Right-drag and drop the clip on the Player onto the bin, and click [Add clip(s)].
- Adding clips on the Player to the bin: [Shift] + [Ctrl] + [B]

Registering between In and Out Points to the Bin As a Separate Clip (Subclip)

The range between In and Out points set to the clip can be copied as a subclip and registered to the bin. Subclips reference the same source as the original clip (master clip).

Note

- Subclips cannot be created from the sources displayed in the deck mode.
- Subclips cannot be created from clips to which In and Out points have been set separately for the video part or audio part of a video clip with audio.

1 Display the clip on the Player, and set the In and Out points.

Setting the In and Out Points ▶ P176

2 Click [Add Subclip to Bin] on the Player.



The subclip is created in the name format “original clip name—sub 4-digit sequential number”, and is registered to the bin.

Alternative

- Right-drag and drop the clip on the Player onto the bin, and click [Add subclip(s)].



- The master clip also will be registered to the bin if the subclip has been created with the clip displayed directly on the Player from the source browser without being registered to the bin.
- Set the margins to add when creating subclips by [Source] in [User Settings] → [Automatic Correction].
[Automatic Correction] ▶ P98
- To release a subclip and return it to the master clip, right-click the subclip registered to the bin, and click [Change to Master Clip].

CHAPTER 6

Bin Operations

This chapter explains how to perform operations on bins.

Bins and Clips

Clips in Bins

Clips are registered to the bin for management.

The following explains how the bin window is displayed and the types of clips that can be registered.

Showing/Hiding the Bin Window

Switch the show/hide setting for the bin window.


1 Click [Toggle Bin Window Display] on the timeline.

Each click of [Toggle Bin Window Display] switches the show/hide setting.



Alternative

- Click [View] on the menu bar, and click [Bin].
- Showing/hiding the bin window: [B]

-  • When the show/hide setting for the bin window is switched, the show/hide setting of the palette tabs and the source browser window combined with the bin window is also switched. To toggle the show/hide setting individually, release the association of the window and the palette.

Combining Bin Window/Source Browser Window with a Palette ▶ P117

Types of Registerable Clips

The following shows the clips that can be registered to the bin.

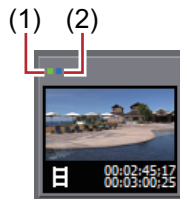
Clips

The following types of clips can be registered to the bin:

- Video clips
- Video subclips
- Still image clips
- Audio clips
- Audio subclips
- Color bar clips
- Color matte clips
- Title clips (clips created with title authoring software)
- Timeline sequence clips
- Sequence clips

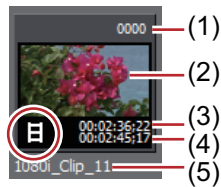
Clip Display

Common part



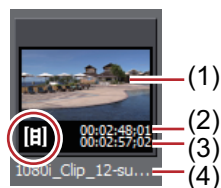
(1)	Clips exist on timeline	This is displayed when a clip is placed on the timeline.
(2)	Clips exist under project folder	This is displayed when a source file referenced by a clip is in the project folder.

Video clips



(1)	Reel name	This is displayed when the reel name is set.
(2)	Poster frame	The main image of the clip
(3)	Start timecode/ Source In point timecode	The start timecode of the clip is displayed. The In point timecode is displayed when the In point is set.
(4)	End timecode/ Source Out point timecode	The end timecode of the clip is displayed. The Out point timecode of the clip is displayed when the Out point is set.
(5)	Clip name	The file is automatically named.

Video subclips



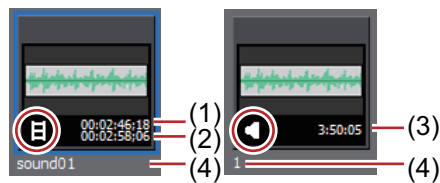
(1)	Poster frame	The main image of the clip
(2)	Source In point timecode	The In point timecode of the clip is displayed.
(3)	Source Out point timecode	The Out point timecode of the clip is displayed.
(4)	Clip name	The file is automatically named.

Still image clips



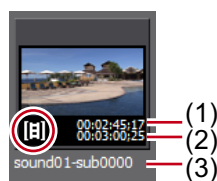
(1)	Thumbnail display	The thumbnail is displayed.
(2)	Duration	Duration is not set when the source is created. It is set when the source is placed on the track and registered to the bin again.
(3)	Clip name	The file is automatically named.

Audio clips



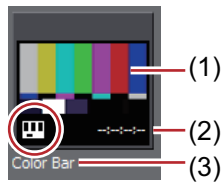
(1)	Start timecode/ Source In point timecode	The start timecode of the clip is displayed. The In point timecode is displayed when the In point is set.
(2)	End timecode/ Source Out point timecode	The end timecode of the clip is displayed. The Out point timecode of the clip is displayed when the Out point is set.
(3)	Duration	The duration of the source is displayed, for example, when the content of an Audio CD is displayed in the source browser.
(4)	Clip name	The file is automatically named.

Audio subclips



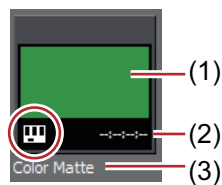
(1)	Source In point timecode	The In point timecode of the clip is displayed.
(2)	Source Out point timecode	The Out point timecode of the clip is displayed.
(3)	Clip name	The file is automatically named.

Color bar clips



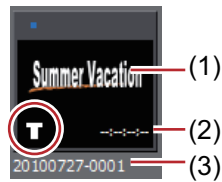
(1)	Thumbnail display	The thumbnail is displayed.
(2)	Duration	Duration is not set when the source is created. It is set when the source is placed on the track and registered to the bin again.
(3)	Clip name	The clip name is "Color Bar" when the source is created.

Color matte clips



(1)	Thumbnail display	The thumbnail is displayed.
(2)	Duration	Duration is not set when the source is created. It is set when the source is placed on the track and registered to the bin again.
(3)	Clip name	The clip name is "Color Matte" when the source is created.

Title clips



(1)	Thumbnail display	The thumbnail is displayed.
(2)	Duration	Duration is not set when the source is created. It is set when the source is placed on the track and registered to the bin again. The duration is set for animation titles.
(3)	Clip name	The clip name when the source is created is the name created with the title authoring software.

Timeline sequence clips




(1)	Reel name	This is displayed when the reel name is set.
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(2)	Poster frame	The main image of the clip
(3)	Start timecode/ Source In point timecode	The start timecode of the clip is displayed. The In point timecode is displayed when the In point is set.
(4)	End timecode/ Source Out point timecode	The end timecode of the clip is displayed. The Out point timecode of the clip is displayed when the Out point is set.
(5)	Clip name	The file is automatically named when the source is created.

Sequence clips



(1)	Reel name	This is displayed when the reel name is set.
(2)	Poster frame	The main image of the clip
(3)	Start timecode/ Source In point timecode	The start timecode of the clip is displayed. The In point timecode is displayed when the In point is set.
(4)	End timecode/ Source Out point timecode	The end timecode of the clip is displayed. The Out point timecode of the clip is displayed when the Out point is set.
(5)	Clip name	The file is automatically named when the source is created.

-  • The poster frame, which is displayed when the clip view is shown as a clip, can be changed by simple mouse operation. Press and hold the mouse wheel button over the thumbnail, and move the mouse left or right. Release the mouse wheel to complete the change to the setting.
- When a title file is already created, click [Add Clip] in the bin to display the [Open] dialog box, and open the file. When no title file is prepared, click [Add Title] in the bin, start up the title authoring software, and create a title file.
- You can rename clips by the following operations:
 - Select a clip, and click the clip name.
 - Right-click a clip and click [Rename Clip].
 - Renaming after selecting a clip in the bin window: [F2]

Automatically Registering Clips

You can specify the watch folder by “EDIUS Watch Tool” provided. When a file is added to the specified folder while “EDIUS Watch Tool” is started up, the clip is automatically added to [Watch folder] in the bin when EDIUS is next started up.

Specifying the Watch Folder

The file can be automatically registered to the bin when it is stored in the watch folder.

1 Click [Tool] in the bin.



2 Click [EDIUS Watch].

The program will start up.

Alternative

- Click [Tool] on the menu bar, and click [EDIUS Watch].

3 Click [Configure].

Watch Settings ▶ P188

4 Click [Add] in the [Watch Settings] dialog box.

5 Click [...], and specify the watch folder.

To also watch folders in the specified folder, check [Watch sub folders].

To specify multiple watch folders, repeat steps 4 and 5.



- In the network editing system, check [Use file change notifications from network] at all shared terminals. At [Network] in the [Watch Settings] dialog box, terminals set with [Broadcast file change notification] notify other terminals of any changes that are made to files in the watch folder. After receiving details of changes, the terminals execute processing according to the [Watch Settings] setting. When [Use file change notifications from network] is unchecked, details of changes are neither notified nor received.

[Watch Settings] Dialog Box ▶ P189

6 Set each item and click [OK].

7 Click [OK].

The EDIUS Watch icon is displayed in the task tray at the bottom right of the screen.

Normally, the icon is displayed in yellow, however, the color changes as described below according to the watch folder status:

Light blue: Watching folder

Red: New file added to the watch folder



- “EDIUS Watch Tool” reflects tasks performed in the watch folder as follows.
 - Add file: Add a file to [Watch folder] in the bin. The file is not added when a file with the same name exists in the folder.
 - Delete file: Delete all files with the same file name in [Watch folder] in the bin.
 - Rename file: Replace all files with the same file name in the bin to ones with the new file name. Note, however, that a new file is added when you rename a file not registered to the bin.



Note

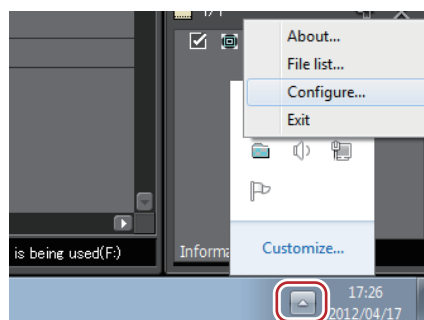
- If you move folders in the watch folder, the files in those folders will be handled as offline clips.
- Folders are watched only while this program is running. Files added/deleted while this program is not running are not detected. You can set to automatically start up “EDIUS Watch Tool” when Windows is started up.

Watch Settings ▶ P188

Watch Settings

Set watch function items.

1 Right-click the watch folder icon in the task tray, and click [Configure].



The [Watch Settings] dialog box appears.

[Watch Settings] Dialog Box ▶ P189



- To watch folders on the network, disable entry of the user name and password.

[Watch Settings] Dialog Box

[Watch Folders]	Display the list of watched folders. Click the respective button to add/delete/edit the watch folder. Up to 10 watch folders can be set.
[Extensions]	Enter the extension of file to be watched. To specify multiple extensions, delimit them with “;”. Wildcards (* or ?) cannot be used.
[Watch Condition]	<p>Set the conditions for watching folders.</p> <p>[EDIUS is running] Automatically register a file to the bin when the file has been added to the watch folder while EDIUS is running. The file is not registered when a file is added while EDIUS is not running.</p> <p>[EDIUS is not running] Automatically register a file to the bin only when the file has been added to the watch folder while EDIUS is not running. The file is not registered when a file is added while EDIUS is running.</p> <p>[Always] When a file has been added to the watch folder, it is always registered to the bin automatically.</p> <p>[Only watch] This item is enabled when an MPEG file has been specified at [Extensions] or when editing while recording on the network editing system. When the watch folder is always monitored and a file is added, the file is added to [Detected Files] but not registered to the bin. Select this item on the capture terminal when editing while recording in the network editing system environment. <i>[Detected Files] Dialog Box ▶ P191</i></p>
[Use temporary file to save result of detected files]	Check this item to save the detection results to a temporarily file to restore the last status at next start-up. Uncheck this item if you do not want to reflect the last status or your environment has changed greatly.
[Add shortcut to startup]	Start up “EDIUS Watch Tool” at the same time when Windows is starting up.
[MPEG Seek Information]	<p>This item is enabled when the extension (e.g. *.m2t or *.mpg) of an MPEG file has been entered at [Extensions]. Click this button to display the [MPEG Seek Information] dialog box. <i>[MPEG Seek Information] dialog box ▶ P189</i></p>
[Edit While Recording mode]	Check this item to register the file to the bin in accordance with the watch conditions even if it is in the process of being captured, and parts of the file that have finished being captured can be edited with EDIUS.
[Network]	<p>Click this button to display the [Network] dialog box. <i>[Network] dialog box ▶ P190</i></p>

[MPEG Seek Information] dialog box

[Create seek information file in background]	<p>Check this item to automatically create the seek information result file in the background when an MPEG file has been added to the watch folder. If this file is created in advance, the seek can be speeded up when the added MPEG file is opened with EDIUS.</p> <p>[Rename/remove seek info file when source file is renamed/removed] Check this item to rename or delete the MPEG seek information result file in the same way when the MPEG file in the watch folder is renamed or deleted.</p> <p>[Give priority to PTS] This item cannot be changed. In EDIUS, the PTS (time stamp information) is given priority as the reference time of the seek.</p>
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[Network] dialog box**[Broadcast file change notification]**

In some file systems, details of changes are sometimes not reflected on other terminals even if the contents of a shared folder are changed (e.g. file added or deleted, or file renamed). When a shared folder is specified as the watch folder and this item is checked, EDIUS Watch Tool reflects the changes also on EDIUS Watch Tool that is running on other terminals on the network when the content of the folder is changed. Set this item only on capture terminals that directly export files to a shared folder.

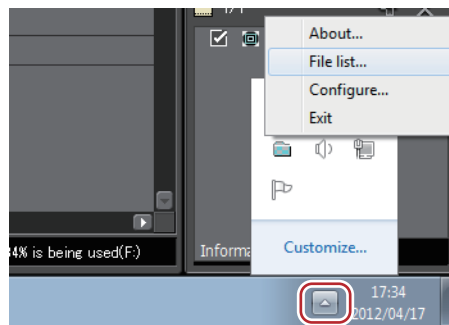
[Broadcast address]

Set the broadcast address that is used for notifying details of changes. Setting the broadcast address of the subnet rather than a global address (255.255.255.255) is recommended. Set the broadcast address of the subnet, for example, in the format "192.168.0.255" for "192.168.0.x" address and in the format "10.0.x.x" for "10.0.x.x" address. The same address must be set on all shared terminals.

Prohibiting Registration to the Bin

Detected files are automatically registered to the bin when EDIUS is next started up. To disable registration of files to the bin, they must first be deleted from the list before EDIUS is started up.

1 Right-click the watch folder icon in the task tray, and click [File list].



The [Detected Files] dialog box appears.

[Detected Files] Dialog Box ▶ P191

2 Select and right-click the files not to register to the bin from the list, and select [Delete from List].

The files are deleted from the list.



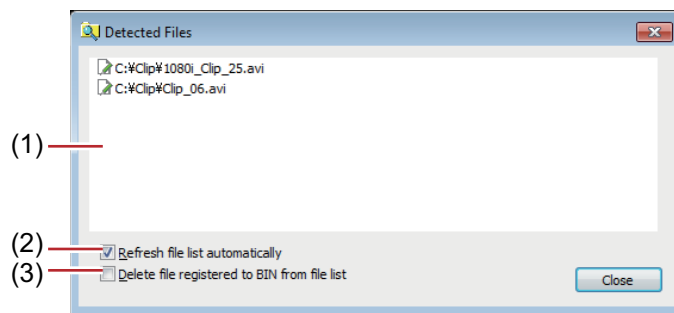
- Move the mouse cursor to the icon in the task tray to display the number of files not registered to the bin. Files already registered to the bin are not included in the number of displayed files.



Note

- Files in the watch folder are not deleted even if file names are deleted from the list.

[Detected Files] Dialog Box



(1)	List	<p>Display the detected files or files registered to the bin in the list. Each file status is indicated as the following icons:</p> <ul style="list-style-type: none"> : Unregistered files : Files whose renamed file name has been detected : Files whose deletion has been detected : Files registered to the bin : Currently non-existent files
(2)	[Refresh file list automatically]	Check this item to automatically update the list when a new file is added.
(3)	[Delete file registered to BIN from file list]	Check this item to delete files registered to the bin from the list. The change made here is enabled after restart.

Joining Multiple Video Clips All Together as a Single Clip

This section explains how to group multiple clips all together and set them as a single sequence clip, and how to ungroup single sequence clips.

Joining Multiple Clips (Set as Sequence)

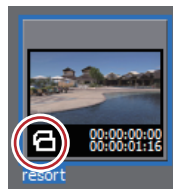
Join multiple video clips all together as a single sequence clip.



1 Select and right-click the multiple clips in the bin, and click [Set as Sequence].

The created clip is registered in the bin as a sequence clip.

Clips set as a sequence take the name of the first joined clip as its clip name.



Registering Consecutive Still Images ► P156



- Clips are joined in the sorting order of the bin.
- Clips are joined with the In and Out point settings of the video part held by the original clip intact.



Note

- Conditions for setting as a sequence are as follows:
 - The clip type, image size and aspect ratio of all clips must be matching.

- For video, the field order and frame rate of all clips must be matching.
- For audio, the sampling rate, quantization bitrate and number of channels of all clips must be matching.

Canceling a Set Sequence

Cancel joining of a sequence clip.



1 Right-click a sequence clip in the bin, and click [Cancel Sequence].

After the sequence is canceled, the clip name returns to the one before the clips are joined.



- The In and Out point settings that were held by the clips before they were joined as a sequence are restored.

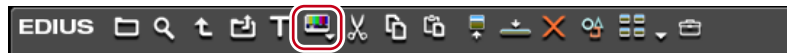
Creating Color Bar/Color Matte/Title Clip

The following explains how to create color bar clips, color matte clips and title clips.

Color Bar Clips

Create a color bar clip.

1 Click [New Clip] in the bin.



2 Click [Color Bars].

The [Color Bars] dialog box appears.

3 Make the color bar settings, and click [OK].



Alternative

- Right-click a blank area in the clip view, and click [New Clip] → [Color Bars].
- Click [Clip] on the menu bar, and click [Create Clip] → [Color Bars]. The color bar clip is registered to the bin.



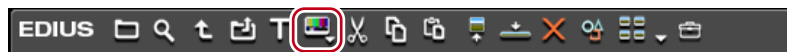
- You can change settings from the [Color Bars] dialog box by the following operations:
 - Right-click a color bar clip in the bin, and click [Edit].
 - Double-click a color bar clip in the bin.
- You can also place a color bar clip on the timeline without registering it to the bin.

Placing Special Clips on the Timeline ► P233

Color Matte Clips

Create a color matte clip.

1 Click [New Clip] in the bin.

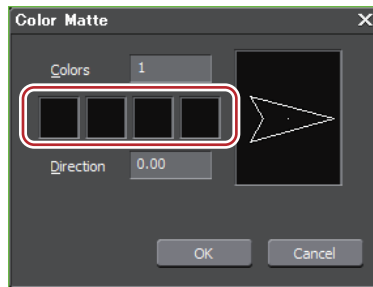


2 Click [Color Matte].

The [Color Matte] dialog box appears.

3 Click the color palette.

Set the color palette starting from the left.



The [Color Select] dialog box appears.

[Color Select] Dialog Box ▶ P193**4 Set the color.****5 Click [OK].**

The screen returns to the [Color Matte] dialog box. To set a gradation, enter a numerical value of 2 or higher at [Colors] in the [Color Matte] dialog box, and repeat steps 3 to 5.

6 Set the direction of the gradation, and click [OK].

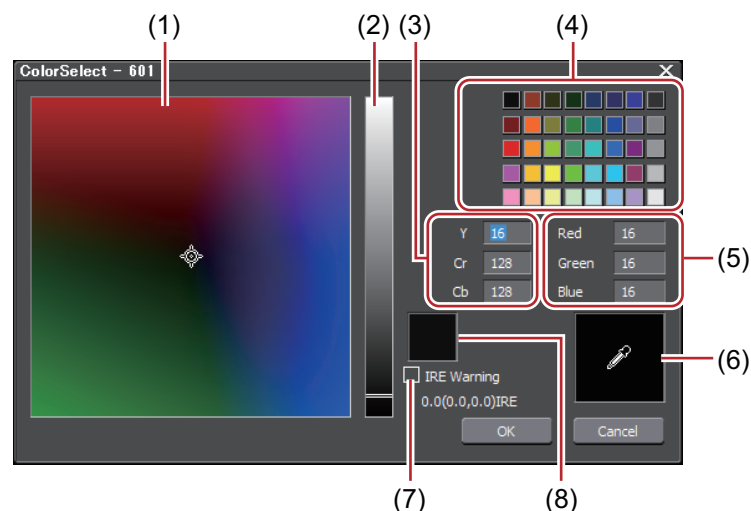
The gradation can be specified by, for example, entering the numerical value in degrees, rotating the mouse wheel or dragging the mouse.

Alternative

- Right-click a blank area in the clip view, and click [New Clip] → [Color Matte].
- Click [Clip] on the menu bar, and click [Create Clip] → [Color Matte]. The color matte clip is registered to the bin.



- You can change settings from the [Color Matte] dialog box by the following operations:
 - Right-click the color matte clip in the bin, and click [Edit].
 - Double-click the color matte clip in the bin.
- You can also place the color matte clip on the timeline without registering it to the bin.

Placing Special Clips on the Timeline ▶ P233**[Color Select] Dialog Box**

(1)	Color spectrum	Drag the cursor to set the color difference (Cr, Cb).
(2)	Luminance slider	Drag the slider to set the luminance (Y).
(3)	YCrCb value input field	Enter a numerical value for brightness and color difference to set the color.

(4)	Color palette	Select a color from the standard color palette.
(5)	RGB value input field	Enter a numerical value for red (R), green (G) and blue (B) to set the color.
(6)	Color picker	Select the color from the Player/Recorder display frame. Click [ColorPicker], and click the desired color in the video currently displayed on the Player/Recorder.
(7)	[IRE Warning]	Check this item to display the color spectrum and luminance slider in the limited range of 0 to 100 IRE. The IRE value for the selected color is displayed under this check box.
(8)	Preview box	Display the preset color.

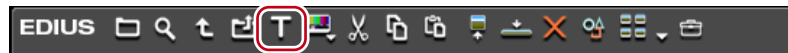
Title Clips

Create a title clip.



- The existing titler can be changed from [Application] in [User Settings] → [Other].
[Other] ► P93

1 Click [Add Title] in the bin.



Quick Titler will start up.

2 Create the title clip.

Quick Titler ► P371



Alternative

- Click [Clip] on the menu bar, and click [Create Clip] → [QuickTitler].
- Right-click a blank area in the clip view, and click [Add Title].
- Right-click a blank area in the clip view, and click [New Clip] → [QuickTitler].
- Creating a title clip: [Ctrl] + [T]

Creating Stereoscopic Clips

Selecting a File Used in Pair to Set as a Stereoscopic Clip

If either the L side clip (for left eye) or the R side clip (for right eye) is in the bin, select a file used in pair to make a single stereoscopic clip.

1 Select and right-click the clip to set as stereoscopic in the bin, and click [Set as Stereoscopic].

The [Stereoscopic setting] dialog box appears.

The following files are automatically searched: files which are placed in the same folder as the clip selected in step 1, have the same extension, and are allowed to be stereoscopic. The search result is displayed in [Select pair files] as a list.





- If a clip that is transferred to a project folder, the folder in which the clip is saved before transfer will be searched.

2 Select a file from the [Select pair files] list.

Select a file to be used in pair based on the information such as [Similarity].

3 Set each item.

[Select pair files]	<p>Displays the information for the searched files. If files to be used in pair do not exist, click [Browse folder] to change the search folder.</p> <p>Click  in [Sync] to select the position to synchronize the L side and the R side clips. It will be reflected in the [Preview] display. Every click switches the sorting order to be ascending or descending.</p>
[Preview]	<p>Displays the L side clip at the left, and the R side clip at the right. Move the slider or enter the timecode in [Cur] to view video. Click [Monitor preview] to view the stereoscopic video of the current position in the preview window.</p> <p>Click  to switch the L side and the R side video.</p>

4 Click [OK].

- After setting as a stereoscopic clip, the clip markers which the L side and the R side clips contain are merged.
- The length of the clip will be determined by the area with the frames on both the L side and the R side clips, after synchronizing the L side and the R side clips.
- The capture margin will be set to the longer one of either the L side or the R side capture margin, after synchronizing the L side and the R side clips.
- The clip length and information other than the capture margin of the L side clip will be carried over.
- The In and Out points information of the L side and the R side clips will be deleted after setting as a stereoscopic clip.



Setting Separate L and R Clips in the Bin as Stereoscopic

If both the L side (for left eye) and the R side (for right eye) clips are in the bin, set them as a single stereoscopic clip.

1 Select and right-click the L side and the R side clip (or clips) to set as a stereoscopic clip in the bin, and click [Set as Stereoscopic].

The [Stereoscopic setting] dialog box appears.

2 Set each item.

[Stereoscopic clips]	<p>Displays information on the stereoscopic clip. The clip name to be created as a stereoscopic clip is displayed in [Clip Name].</p> <p>Click  in [Sync] to select the position to synchronize the L side and the R side clips. It will be reflected in the [Preview] display. When multiple clips of the L and R sides are selected, click [Auto pairing] to automatically sort them so that clips with high degree of similarity are paired.</p>
[Preview]	<p>Displays the L side clip at the left, and the R side clip at the right. Move the slider or enter the timecode in [Cur] to view video. Click [Monitor preview] to view the stereoscopic video of the current position in the preview window.</p> <p>Click  to switch the L side and the R side video.</p>

3 Click [OK].

- After setting as a stereoscopic clip, the clip markers which the L side and the R side clips contain are merged.
- The length of the clip will be determined by the area with the frames on both the L side and the R side clips, after synchronizing the L side and the R side clips.
- The capture margin will be set to the longer one of either the L side or the R side capture margin, after synchronizing the L side and the R side clips.
- The clip length and information other than the capture margin of the L side clip will be carried over.
- The In and Out points information of the L side and the R side clips will be deleted after setting as a stereoscopic clip.

Canceling Stereoscopic Clips

Cancel a stereoscopic clip to reset to 2 separate clips.

- 1 **Select and right-click stereoscopic clip (or clips) in the bin, and click [Cancel Stereoscopic].**



- Clip markers are retained after canceling stereoscopic clips.
- The In and Out points information will be deleted after canceling stereoscopic clips.

Setting Stereoscopic Clips as Sequence/Canceling Sequence

Set multiple stereoscopic clips in the same format as a single sequence clip, or cancel the sequence clips. The operation procedure is the same as for settings as sequence/canceling sequence.

Joining Multiple Video Clips All Together as a Single Clip ► P191

Creating Subclips from Stereoscopic Clips

Creating Subclips from Stereoscopic Clips

The operation procedure is the same as for the regular subclip creation.

Registering between In and Out Points to the Bin As a Separate Clip (Subclip) ► P180

Handling Non-Stereoscopic Clips as Stereoscopic Clips

Non-stereoscopic clips where video is divided by side-by-side or tom-and-bottom, etc. can be handled as stereoscopic clips.

- 1 **Select and right-click a clip in the bin or source browser, and click [Properties].**

The [Clip Properties] dialog box appears.

- 2 **Click the [Stereoscopic info] tab.**

- 3 **Check [Use as Stereoscopic clip], and select an item from the [Divide setting] list.**



- Check [Swap L/R] to switch the L side and the R side video.
 - The L side clip is displayed at the left of [Preview], and the R side clip is displayed at the right. Move the slider or enter the timecode in [Cur] to view video.
 - Click [Monitor preview] to view the stereoscopic video of the current position in the preview window.

- 4 **Click [OK].**

Changing Clip Information and Content

This section explains how to check the information of the clip and change settings.

Correcting Properties

Change the clip frame rate or specify the start timecode in the [Clip Properties] dialog box.

- 1 **Select a clip in the clip view, and click [Properties].**



The [Clip Properties] dialog box appears.

[Clip Properties] Dialog Box ► P197



Alternative

- Right-click a clip and click [Properties].
- Correcting properties: [Alt] + [Enter]

- 2 **Correct the settings, and click [OK].**



- The properties of multiple clips can be corrected in a single operation depending on the items to correct.
Correcting Multiple Clip Properties ► P197

[Clip Properties] Dialog Box

The displayed tab varies according to the type of clip.

[File info] tab	Check type, data size and other details of files. You can also rename clips, rename reels, enter comments, and change the clip display color.
[Video info] tab	Check the start TC (timecode), end TC or image size. You can also change the start TC, poster frame, aspect ratio, color correspondence range, field order, and frame rate. To return the settings to their state at capture, click [Back to Default Settings].
[Stereoscopic info] tab	If a clip is not a stereoscopic clip, divide a clip to handle it as a stereoscopic clip. <i>Handling Non-Stereoscopic Clips as Stereoscopic Clips</i> ► P196
[Audio info] tab	Check the start and end TCs, or acquire wave information (waveform representation of audio) again, and set the playback settings.
[Still image info] tab	Check the format or image size. You can also change duration, aspect ratio and color correspondence range.

Correcting Multiple Clip Properties

When the bin is set to the detailed clip view, you can select multiple clips to rename the clips or change the clip display color and other settings in a single operation.

The following items can be corrected in a single operation:

- Clip name
- Reel name
- Comment
- Clip display color
- Frame rate
- Aspect ratio
- Field order
- Color correspondence range



- If an item you want to correct is not displayed, set the display item by [User Interface] in [User Settings] → [Bin].
Bin Detailed Display Item Settings ► P137



Note

- If a selected clip contains an invalid setting, a warning message will appear to ask whether to continue changing the settings. If settings are changed as they are, changes will not be reflected in that clip.

Correcting Clip Names/Reel Names/Comments


1 Set the bin to the detailed clip view.

Clip View Display ► P136

2 Select and right-click the multiple clips whose properties are to be changed, and click [Rename Clip].



Alternative

- Select multiple clips whose properties are to be changed, and click .
- Select the multiple clips whose properties are to be changed, and click [F2] on the keyboard.

3 Press [Tab] on the keyboard, and select the items to correct.

4 Enter the new content.

When a clip name has been corrected, branch numbers are added in order from the top based on the entered clip name.

When a reel name and comment have been corrected, entered content is reflected on all selected clips.




Correcting Display Color/Frame Rate/Aspect Ratio/Field Order/Color Correspondence Range

1 Set the bin to the detailed clip view.

Clip View Display ▶ P136

2 Select the multiple clips whose properties are to be changed.

3 Click , and select an item to correct.

-  • “*” to the right of items displayed by clicking  indicates that the setting is the default setting.
 - To return the frame rate, aspect ratio and field order of multiple clips to the default settings for each clip, click  and select [Back to default].

Correcting the Settings Dialog Box

Change the settings for color bar, color matte, or title clip in the settings dialog box.

1 Right-click a color bar clip, color matte clip or title clip in the bin, and click [Edit].

The settings dialog box appears for color bar clips or color matte clips.

Color Bar Clips ▶ P192

Color Matte Clips ▶ P192

In the case of title clips, the title authoring software will start up.

Quick Titrer ▶ P371

 Alternative

- Double-click a clip in the bin.
- Select a clip in the bin, and press [Ctrl] + [Enter] on the keyboard.

Converting Files

AVCHD or HDV standard native files can be converted to AVI such as Grass Valley HQ codec and downconverted to SD image quality.

1 Right-click a clip in the bin, and click [Convert] → [File].

Multiple files can be converted in a single operation by selecting multiple clips and clicking [Convert] → [File(batch)].

2 Select the codec and image quality from the [Save as type] list, and click [Save].

-  • If a stereoscopic clip is converted, it will convert to 2 stream AVI (1 file).

MPEG File Media Settings

For MPEG format clips, setting to ensure faster seeking of files can be changed for each clip.

 Note

- [MPEG Media Settings] will not be displayed if the target file is not MPEG.


1 Right-click a clip in the bin, and click [MPEG Media Settings].

The [MPEG Media Settings] dialog box appears.

[MPEG Media Settings] Dialog Box ▶ P199

2 Set each item and click [OK].

 Alternative

- Right-click a clip placed on the timeline, and click [MPEG Media Settings].
-  • The above settings can be changed on all MPEG files to be imported to EDIUS.

[MPEG] ▶ P82

[MPEG Media Settings] Dialog Box

[Use Accel. Seek]	Set faster seeking of MPEG files. To speed up seeking, check this item first, and then check the following items if necessary. [Create Seek Information in Background] Collect the time stamp information of MPEG files at idling to speed up the seek. [Save Seek Information to File] Save the seek information as a reusable file.
[A/V Synchronization Using PTS]	Some MPEG files have no valid PTS (time stamp information). Check this item to decode files that have no PTS. Check this item to use the PTS (time stamp information) for synchronization of audio and video.
[Get timecode from GOP header]	Some MPEG files may have timecode information in their header. Check this item to use timecode information.

H.264 Media Settings

You can set whether to acquire timecode information from Picture Timing SEI by each clip to H.264 codec clips.



Note

- If the target file is not H.264 codec, [H.264 Media Settings] will not be displayed.

1 Right-click a clip in the bin, and click [H.264 Media Settings].

The [H.264 Media Settings] dialog box appears.

2 Set each item and click [OK].

[Get timecode from Picture Timing SEI]	Check this item to acquire the timecode information from Picture Timing SEI.
---	--



Alternative

- Right-click a clip placed on the timeline, and click [H.264 Media Settings].



- The above settings can be changed on all H.264 files to be imported to EDIUS.

[AVCHD] ▶ P79

Checking Clip Save Destinations

Display the save destination folder for the clip.

1 Right-click a clip in the bin, and click [Explorer].

Explorer starts up, and the save destination folder for the clip is displayed.

Opening Files with Software

You can open a file with application software associated to the file, for example, by opening *.psd files in Photoshop.

1 Right-click a clip in the bin, and click [Open].

Open the file with the application software associated to the file.



- You can open a clip placed on the timeline by the associated application software by the following operation:
 - Right-click a clip placed on the timeline, and click [Open].
 - Click a clip placed on the timeline, and click [Clip] on the menu bar → [Open].
 - Opening clips placed on the timeline: [Shift] + [Ctrl] + [P]

Managing Clips

Operations in the Clip View

This section explains how to manage clips in the clip view, for example, by copying and pasting the selected clip.

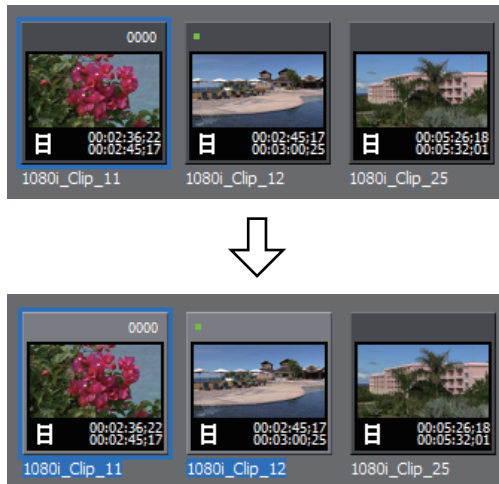
Clip View Display ▶ P136

Selecting Clips

Select a clip in the clip view. The selected clip changes color.

1 Click a clip in the clip view.

To select multiple clips, drag the mouse to enclose the desired clips.



- Click a clip with [Ctrl] held down on the keyboard to add or release selected clips one at a time. You can select a range of clips in a single operation by clicking the topmost clip of the range with [Shift] on the keyboard held down and then clicking the bottommost clip of the range.
- Right-click any clip and a menu will appear so that you can perform various operations on the clip. This menu appears in the same way when multiple clips are enclosed by dragging with the right mouse button so that operations can be batch-performed on the clips selected in that range.

Copying Clips

Copy clips.

1 Select a clip, and click [Copy] in the bin.



You can then paste it.



Alternative

- Right-click a clip and click [Copy].
- Right-drag and drop the clip onto the copy destination folder, and click [Copy clips].
- Copying clips: [Ctrl] + [Insert]

Cutting Clips

Cut clips. Cut clips are deleted from the bin.

1 Select a clip, and click [Cut] in the bin.



You can then paste it.

Alternative

- Right-click a clip and click [Cut].
- Cutting clips: [Ctrl] + [X]/[Shift] + [Delete]

Pasting Clips

Paste copied or cut clips.

1 Select a clip, and click [Copy] in the bin.

Clips can also be pasted by clicking [Cut].

Copying Clips ▶ P200

Cutting Clips ▶ P200

2 Click [Paste] in the bin.

To paste to another folder, select a folder and click [Paste].

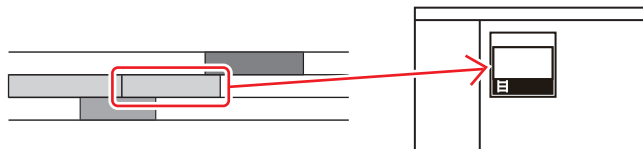


Alternative

- Right-click a clip and click [Paste].
- Right-click a blank area in the clip view, and click [Paste].
- Pasting a clip: [Ctrl] + [V]

Registering from Timeline

Register clips placed on the track to the bin.



1 On the timeline, right-click the clip to register, and click [Add to Bin].

Exporting Video Clips from Timeline ▶ P296

The clip is added to the bin.

When video and audio clips have been placed separately on the V and A tracks, respectively, all clips linked to the right-clicked clip are added to the bin as separate clips. To add only the right-clicked clip to the bin, cancel the link and then perform the desired operation on the clip.

Group/Link Mode ▶ P221

Handling Only the Video Part or Audio Part of Clips Separately ▶ P238

Alternative

- Drag and drop clips to the bin.
- Right-drag and drop the clip onto the bin, and click [Add clip(s)]. Click [Add subclip(s)] to add the clip to the bin as a subclip.
- Select the clip, click [Clip] on the menu bar, and click [Add to Bin].
- Double-click a clip to display on the Player, and drag and drop the clip from the Player to the bin.
- Double-click the clip to display on the Player, and click [Add Clip on Player to Bin] on the Player.
- Adding clips on the timeline to the bin: [Shift] + [B]

Deregistering Clips

- 1 Select a clip, and click [Delete] in the bin.



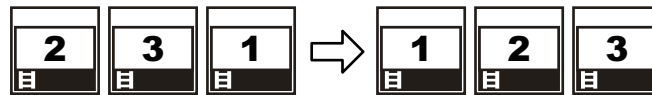
Alternative

- Right-click a clip and click [Delete].
- Deregistering clips: [Delete]

Note

- Once you have deregistered clips, you cannot restore them (cannot undo deregistration).
- Source files are not deleted even by deregistering clips from the bin.

Sorting Clips



Bin Detailed Display Item Settings ▶ P137

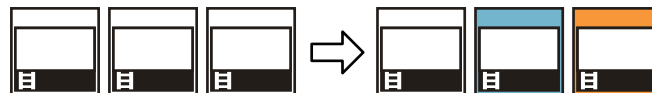
- 1 Right-click a blank area in the clip view, and click [Sort].
- 2 Click the item names to sort.

Alternative

- When the detailed clip view is displayed, each click switches between ascending or descending order.

Color-coding Clips

Color-code clips displayed in the bin to classify them.



- 1 Right-click a clip, and click [Clip Color].
- 2 Click the display color.

Alternative

- Click [File info] in the [Clip Properties] dialog box. Select the display color from the [Clip color] list.

[Clip Properties] Dialog Box ▶ P197

- The display colors of multiple clips can be changed in a single operation.
Correcting Multiple Clip Properties ▶ P197

Transferring Clips to the Project Folder

The following explains how to transfer files referenced by clips in the bin to the project folder.

Transferring to the Project Folder

Note

- The following clips cannot be transferred to the project folder:
 - Non file-based clips such as color bar clips or color matte clips
 - Clips with an importer that does not support file transfer

- Clips already transferred to the project folder

1 Select and right-click the clip, and click [Transfer to Project Folder].

You can select multiple clips.

Data transfer to the project folder is started in the background.

Checking the Progress of Background Jobs ▶ P168

The clip in the bin now references the file transferred to the project folder.

Transferring High-resolution Data

You can transfer high-resolution data of clips containing only proxy data to the project folder.

Transferring High-resolution Data



Note

- The high-resolution data of the following clips cannot be transferred:
 - Clips other than video clips
 - Clips already containing high-resolution data

1 Select and right-click a clip, and click [Transfer HiRes].

You can select multiple clips.

Data transfer to the project folder is started in the background.

Checking the Progress of Background Jobs ▶ P168

The clip in the bin now references the file transferred to the project folder.

Operations in the Folder View

You can register clips for individual folders to classify them. Folders can be added under the [root] folder in a hierarchical structure.

Showing/Hiding Folder View ▶ P135



- The [root] folder cannot be moved or copied.
- Folders independent from the [root] folder cannot be created.

Creating a Folder

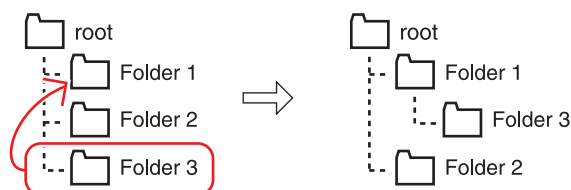


1 Right-click the folder in the folder view, and click [New Folder].

A new folder is created on the layer under the selected folder.

2 Enter the folder name.

Moving Folders



1 Drag a folder, and drop it onto the destination folder.

Alternative

- Right-drag and drop the folder to move onto the destination folder, and click [Move folder].

-  • The [root] folder cannot be moved.

Duplicating Folders

Duplicate a folder.

- 1 Drag the folder in the folder view, and drop it onto the duplicate destination folder with [Ctrl] on the keyboard held down.**

Registered clips are also copied.

Alternative

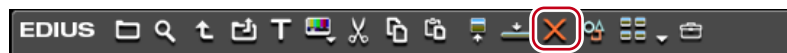
- Right-drag and drop the folder to duplicate onto the destination folder, and click [Copy folder].

-  • The [root] folder cannot be copied.

Deleting Folders

Delete a folder.

- 1 Select the folder to delete in the folder view, and click [Delete] in the bin.**




A dialog box appears to confirm the deletion.

- 2 Click [Yes].**

Alternative

- Select a folder, press [Delete] on the keyboard, and click [Yes].
- Right-click the folder, and click [Delete] and then [Yes].

-  • When the [root] folder has been right-clicked and [Delete All] has been clicked, all clips and folders in the [root] folder are deregistered.

Note

- Once you delete a folder, you cannot restore it (cannot undo deletion).
- When a folder is deleted, all clips in that folder and sub folders are also deregistered.

Switching the Display Folder

Switch the folder to be displayed.

- 1 Click the folder to be displayed in the folder view.**

If the folder view is closed, right-click a blank space of the clip view and click [Move], and click the move destination folder name or [Up one Folder].

Alternative

- Click [Move Up] in the bin to switch the folder.



- Moving to a folder one place up: [Backspace]

Exporting/Importing Bin Information

This section explains how to export and import bin information, and export information registered to the bin to HTML.

Exporting Bins (Export)

Export bin information.

1 Right-click the folder to export in the folder view, and click [Export].

The [Save As] dialog box appears.

2 Set a file name and export destination, and click [Save].



Note

- Bin information can be exported as a *.ezb file with the folder structure held intact.
- *.ezb files with the same name at the export destination will be overwritten.

Importing Bins (Import)

Import bin information exported by EDIUS. Bin information can also be imported from other project files.

1 Right-click the folder in the folder view, and click [Import].

The [Open] dialog box appears.

2 Select a file to import, and click [Open].



Note

- Bin information cannot be imported from project files with different frame rates.
- Bin information sometimes cannot be imported correctly when it has been imported from a project file with different project settings.

Exporting Registration Information (HTML Export)

Export the information of clips registered to the bin to HTML file.

1 Right-click the folder to output in the folder view, and click [Export Html].

The [Save As] dialog box appears.

2 Set a file name, export destination and other information, and click [Save].

Style sheets can also be used.

Searching for Clips Registered to the Bin

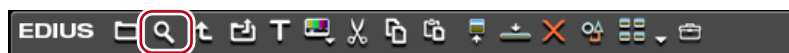
Clips registered to the bin can be searched according to search conditions set by the user. The search results are registered to the folder view as the [Search results] folder and can be browsed.

Searching in the Bin

Search clips registered to the bin. After a search is performed, the [Search results] folder is created.

1 Click the folder to be searched in the folder view.

2 Click [Search] in the bin.



The [Bin Search] dialog box appears.



Alternative

- Right-click the folder to search in the folder view, and click [Search].
- Searching in the bin: [Ctrl] + [F]

3 Select the search conditions at [Category] in [Search by].

The bin search dialog box changes to a category specific search dialog box.

4 Set the search conditions, and click [Add].

Multiple search conditions can be added.

The specified conditions are displayed in [List]. At the same time, clips matching the search conditions are displayed in the [Search results] folder.

5 Click [Close] in the [Search Bin] dialog box.

- You can refine the search for clips in the [Search results] folder by the following operation:
 - Right-click the [Search results] folder, and click [Search In].
 - After selecting the [Search results] folder, perform steps **2** to **5** in “Searching in the Bin”.
- To delete a search condition, select it from [List] and click [Remove].
- To change a search condition, right-click the [Search results] folder, and click [Change Search Settings].
- When [Search only current folder] is checked, only the currently selected folder is searched. Folders under the selected folder are excluded from the search.
- By clicking [And] or [Or], you can also select to search for targets that match all additional search conditions or targets that match some of the additional search conditions.
- When selecting [Folder selection] from [Category] in [Search by] to select the folder to search, all clips in the selected folder and folders lower down in its hierarchy are displayed. You can find the desired clip easily by performed a more refined search even if the folder structure is more complicated.

**Note**

- The [Search results] folder cannot be moved.

Searching by the Simple Search Bar

Search clips in folders by using the simple search bar. After the search ends, only clips that partially match the search text string among the clips in the folder are displayed in the clip view.

1 Click the folder to be searched in the folder view.**2 Press [F3] on the keyboard.**

The simple search bar is displayed.

[Find]	Enter the search text string. You can also select previous search text strings from the list.
[Condition]	Select the search condition from the list.
[Display find condition]	Switch the show/hide setting for the search conditions.
[Close find bar]	Close the simple search bar to display all clips in the folder.

3 Set the search conditions, and press [Enter] on the keyboard.

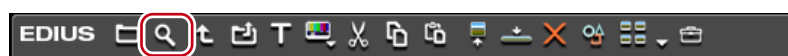
Only clips that partially match the search text string among the clips in the folder are displayed in the clip view.



- Text is not case-sensitive when a search is executed by the simple search bar.
- A history of up to 20 of the last entered search text strings is saved to each profile.

Searching Unused Clips

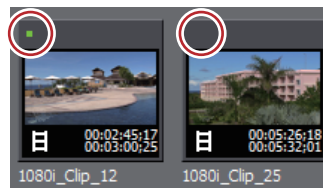
Search clips that have not been used on the timeline.

1 Click the folder to be searched in the folder view.**2 Click [Search].**

The [Bin Search] dialog box appears.

3 Select [Timeline reference] at [Category] in [Search by].**4 Select [Not used], and click [Add].**

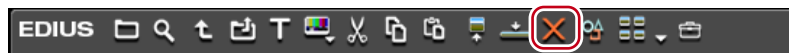
- To delete the source file of clips not used on the timeline, right-click the clip and click [Delete File]. Source files can be deleted only when located under the project folder.
- To deregister clips not used on the timeline, select the clip and click [Delete].
- A green mark is displayed at the top left of the clip display of clips currently used on the timeline. This mark is not displayed for clips not used on the timeline.



Deleting Search Results

Delete [Search results] folders that are no longer required.

- 1 Select the [Search results] folder, and click [Delete].



A dialog box appears to confirm the deletion.

- 2 Click [Yes].

Alternative

- Right-click the [Search results] folder, click [Clear], and then click [Yes].
- Select the [Search results] folder, press [Delete] on the keyboard, and click [Yes].

- The [Search results] folder cannot be restored once they have been deleted.

Note

- When clips in [Search results] are deregistered individually, clips in the [root] folder and clips in folders under that are also deregistered accordingly. You cannot restore them (cannot undo deregistration).

CHAPTER 7

Editing Timelines

This chapter explains edit mode and track settings, and editing on the timeline.

Timeline Settings

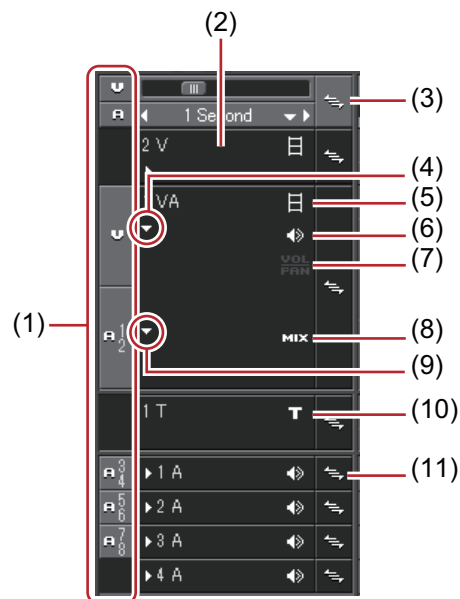
Track Display

The following explains the descriptions of the track header and the types of tracks.

Track Header


You can make settings for each track simply on the track header, for example, to lock the track for preventing placed clips from moving or to set the track to exclusively play back audio.

You can set the following items in the track header.

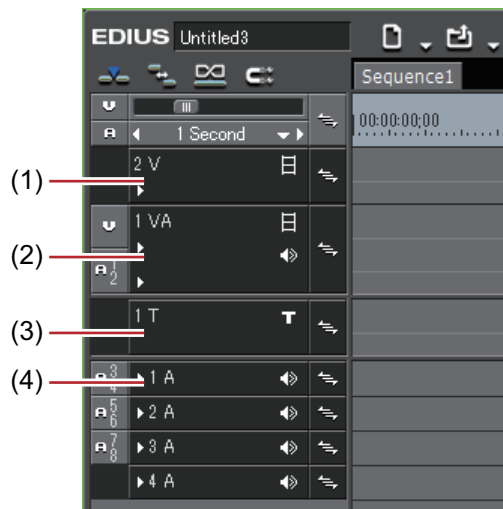


(1)	Track patch	When a clip is displayed on the Player or a clip is selected in the bin, the channel held by that clip (source channel) is displayed on the track patch. When a clip in the source browser is selected, the source channel is displayed on the track patch according to the channel map in the project settings. Also, the track patch position displays which track the source channel is mapped to when a clip is placed on the timeline by a shortcut key or button. The source channel mapping to each track can be changed. Setting Channel Mapping ▶ P225
(2)	Track panel	Click this to switch the select/deselect setting for the track.
(3)	Batch lock panel	Click this to set sync-lock for all tracks on and off. Sync-lock (Synchronization) ▶ P219 Right-click to lock the selected track. Locking Tracks ▶ P214
(4)	Audio expand button	Click this button to display the rubber band for the audio. [Alt] + [S]
(5)	[Video Mute]	When mute is set, the video part of the track is not played back. The video part and mixer area of the clip on a muted track is displayed in gray. [Shift] + [W]
(6)	[Audio Mute]	When mute is set, the audio part of that track is muted. The audio part and volume/pan part of the clip on a muted track is displayed in gray. [Shift] + [S]
(7)	[Volume/Pan]	Switch between the volume adjustment mode and the pan adjustment mode. Adjusting the Volume and Pan of a Clip ▶ P399

(8)	[Mixer]	Switch the transparency adjustment mode on/off. <i>Transparency</i> ▶ P346
(9)	Mixer expand button	Click this button to display the rubber band for the transparency. [Alt] + [W]
(10)	[Title]	Displayed only on T track. Switch the show/hide setting for the title. The title is not played back when it is set as hidden. [Shift] + [W]
(11)	Lock panel	Click this to set sync-lock for a specific track on and off. <i>Sync-lock (Synchronization)</i> ▶ P219 Right-click to lock the selected track. <i>Locking Tracks</i> ▶ P214

 • Shortcut key operations are enabled on the selected track.

Track Type



(1)	V track	Place video, still image, title, color bar, and color matte clip on this track. Video clips with audio are placed as video clips with the audio part disabled.
(2)	VA track	Place video, audio, still image, title, color bar, and color matte clip on this track.
(3)	T track	Place video, still image, title, color bar, and color matte clip on this track. Display priority is given to clips placed on the T track over V/VA tracks. Video clips with audio are placed as video clips with the audio part disabled.
(4)	A track	Place audio clip. Video clips with audio are placed as audio clips with the video part disabled.

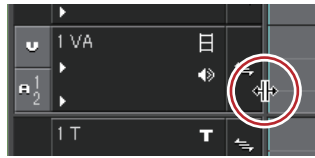
Customizing the Track Display

You can customize track width, height and track name.

Changing the Width of the Track Header

You can change the width of the track header.

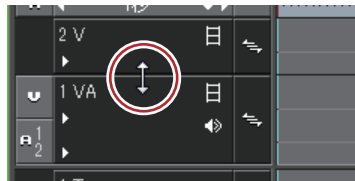
- 1 Move the mouse cursor to the right edge of the track header, and drag when the mouse cursor changes shape.




Changing the Track Height

You can change the height of the track. When the track is set higher, the thumbnails indicating clip frames are displayed larger.

- 1 Move the mouse cursor to the top or bottom edge of the track panel, and drag when the mouse cursor changes shape.

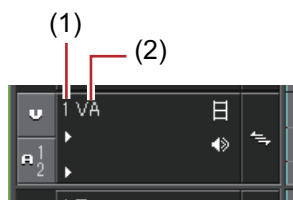


Alternative

- Right-click the track panel to change, and click [Height] → desired height.
-  • You can also change the height of multiple tracks in a single operation. Select and right-click multiple track panels, and click [Height (Selected Tracks)] → desired height.
- You can also adjust the height of all tracks in a single operation. Right-click the sequence tab, select [Track Height] and click the desired height. Newly added tracks from now on become the height set by this operation.

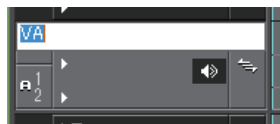
Renaming Tracks


You can rename tracks.



- (1) Track number
- (2) Track name

- 1 Right-click the track panel to change, click [Rename] and enter the new name.



-  • The sort order of the tracks is always displayed as the track number.
- Up to 30 characters can be used in the track name, and tracks with the same name also can be used. Track names that exceed the display range can be checked with the tooltip.
- When a track is copied, the name also is copied.

- The default track names are as follows:
 - Video track: V
 - Video/audio track: VA
 - Audio track: A
 - Title track: T

Operating Tracks

The following explains how to set and select tracks, and operations for changing numbers and moving tracks.

How to Set Tracks

The following content can be set in the [Project Settings] (Detailed Settings) dialog box.

You can also set the track settings for each sequence in the [Sequence settings] dialog box.

- TC preset
- TC mode
- Total length of timeline
- Number of tracks*
- Audio channel map

* The number of tracks cannot be set in the sequence settings.

To set a track when creating a new project, see “Changing Project Settings Temporarily to Create a New Project”, and to change settings when editing a track, see “Changing Project Settings”.

Changing Project Settings Temporarily to Create a New Project ▶ P38

Changing Project Settings ▶ P46

To change settings for each sequence, see “Sequence Settings”.

Sequence Settings ▶ P46

Selecting Tracks

Select the track to be edited.

1 Click the track panel.

The selected track changes color.

When selecting multiple tracks, selected tracks can be added or canceled one track at a time by clicking the track panel with [Ctrl] on the keyboard held down.

You can select a range of tracks in a single operation by clicking the topmost track panel of the range with [Shift] on the keyboard held down and then clicking the bottommost track panel of the range.

All tracks can be selected by double-clicking the track panel.

Alternative

- Selecting/deselecting tracks (1 to 8A): [Shift] + [1] - [8]
- Selecting/deselecting tracks (1 to 8VA/V): [Shift] + [Ctrl] + [1] - [8]
- Selecting/deselecting tracks (all video tracks): [Shift] + [9]
- Selecting/deselecting tracks (all video tracks): [Shift] + [Ctrl] + [9]
- Selecting/deselecting tracks (all tracks): [Shift] + [0], [Shift] + [Ctrl] + [0]

Locking Tracks


When a track is locked, the track can no longer be edited or moved.

1 Right-click the lock panel, and click [Track Lock].

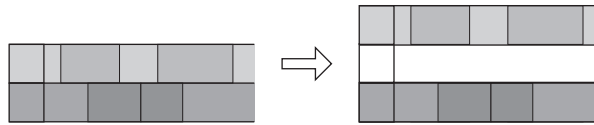
Track Header ▶ P211

A diagonal line is displayed in locked tracks, and clips can no longer be edited or tracks can no longer be moved or deleted. The ripple mode and sync-lock also are disabled.

To unlock a track, right-click the lock panel, and click [Track Unlock].

-  Multiple tracks can also be unlocked in a single operation. To unlock tracks, right-click the batch lock panel, and click [Lock Selected Tracks].

Adding Tracks



1 Right-click the track panel, and click **[Add]** → an item.

Track Header ▶ P211

2 Enter the number of tracks to add.

To add VA tracks/A tracks, click **[Channel map]** and set the audio output channels of the additional tracks.

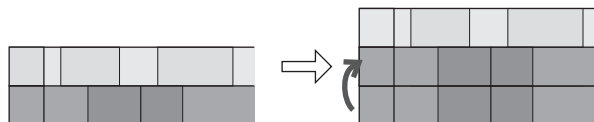
Configuring Audio Channel Map ▶ P43

3 Click **[OK]**.

 **Alternative**

- Right-click a blank area of the track header, and select the track to add.

Duplicating Tracks

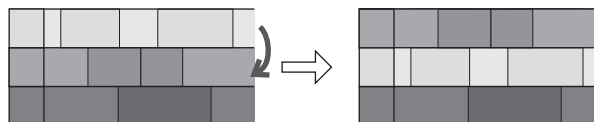


1 Right-click the track panel to duplicate, and click **[Duplicate]**.

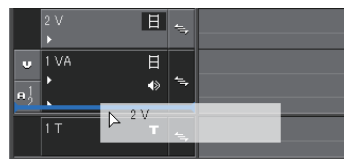
Track Header ▶ P211

The track is duplicated on top of the right-clicked track.

Moving Tracks




1 Click a track panel, and drag and drop onto the move destination.

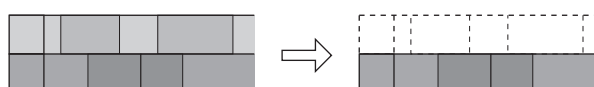


 **Alternative**

- Right-click the track panel to move, and click **[Move]** → **[Move Front]** or **[Move Back]**.

-  Tracks can be moved only between tracks of the same kind (video, audio, title track).
- Multiple tracks cannot be selected and moved.

Deleting Tracks



1 Right-click the track panel to delete, and click [Delete].

Track Header ▶ P211

Tracks on which clips are not placed are deleted at this time.

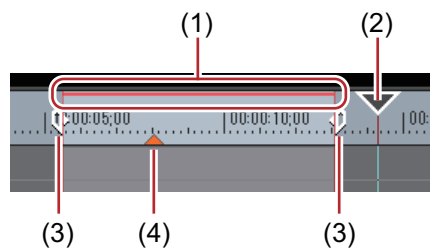
2 Click [OK].

- Multiple tracks can also be deleted in a single operation. Select and right-click the track, and click [Delete (Selected Tracks)].

Timeline Display

Marking the Time Scale

You can mark the time scale with the In and Out points for setting the range to apply operations in and sequence markers to serve as the reference for moving tracks, etc.



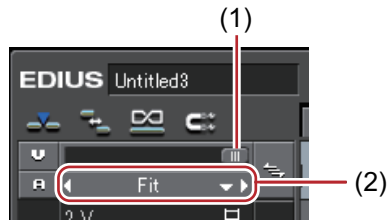
(1)	Rendering options	Display the required level of rendering for playing back the timeline in color by level. Color Coding of Time Scale ▶ P294
(2)	Timeline cursor	Move the timeline cursor by dragging to the left or right.
(3)	In/Out points	Indicate the In and Out points of the timeline. The range to apply operations in can be restricted between In and Out points. Setting the In and Out Points on the Timeline ▶ P227
(4)	Sequence marker	This is the mark to set on the timeline. DVDThis marker becomes the chapter at DVD output, for example. The sequence marker changes color to yellow when the mouse cursor is pointed on the sequence marker, and the timecode or comment (if set) is displayed. Setting Sequence Markers ▶ P283

Time Scale Settings

You can change the display unit for the time scale. The time scale can be displayed in the following units:

- Frames, seconds, minutes

- Fit (The display unit is automatically adjusted to fit the display range of the timeline window.)



(1) Time scale controller

(2) Time Scale Settings

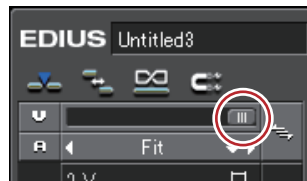
- 1 Click the list button at the time scale settings, and click the display unit.





Click [Fit] to adjust the time scale to display all clips on the timeline. Click [Undo] to return to the previously set display unit.

Alternative

- Click the center of the time scale setting to switch the currently set display unit to [Fit].
- Drag the time scale controller. Move the slider to the left to reduce the display unit, or to the right to increase it. The right end is [Fit].



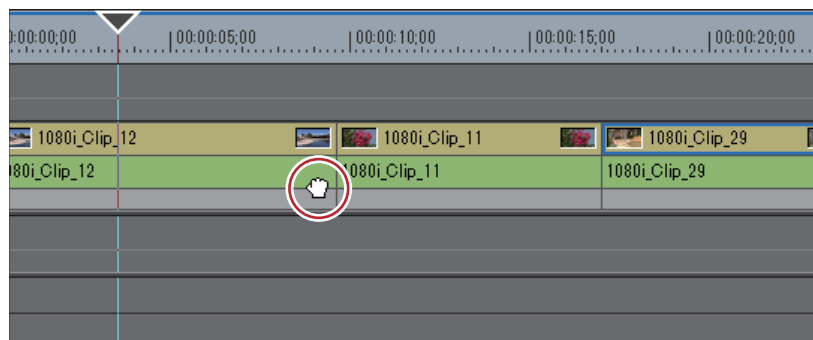
- Click . Click the left end to set a smaller display unit, or click the right end to set a larger display unit.

-  • If a clip is on the timeline, you can fine-adjust the time scale settings in the range [1 Frame] to [Fit] by dragging the time scale controller. The scale is indicated as "----" during fine-adjustment.

Moving the Display Range

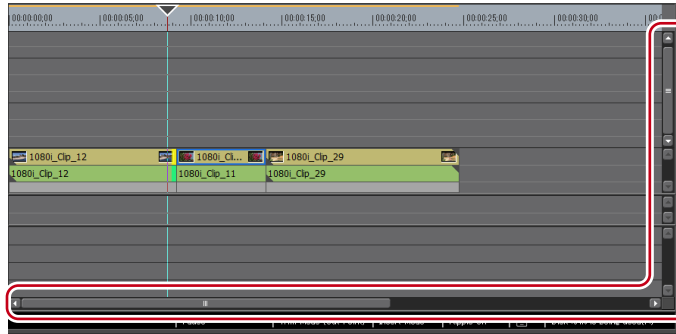
You can move the range currently displayed on the timeline window.

- 1 Right-drag with [Alt] on the keyboard held down.



 **Alternative**

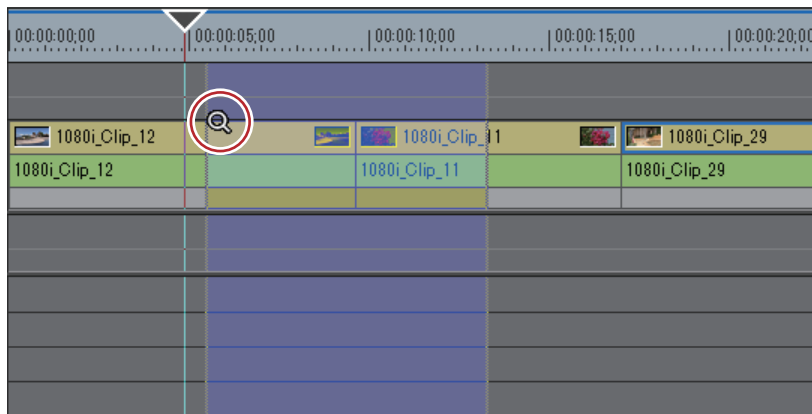
- Move the slider at the bottom of the timeline window or the slider at the right of the track.



Fitting to a Desired Range

You can specify a desired view range on the timeline and fit to this range.

- 1 Right-drag to enclose the range to fit to with [Shift] on the keyboard held down.



Color-coding the Clips Placed on the Timeline

Color-coding Clips on the Timeline

You can color-code clips placed on the timeline to categorize them.

- 1 Right-click a clip on the timeline, and click [Properties].

The [Clip Properties] dialog box appears.

 **Alternative**

- Select a clip, click [Clip] on the menu bar, and click [Properties].
 - Properties: [Alt] + [Enter]
- 2 Click the [File info] tab, and select the desired color from the [Clip color] list.

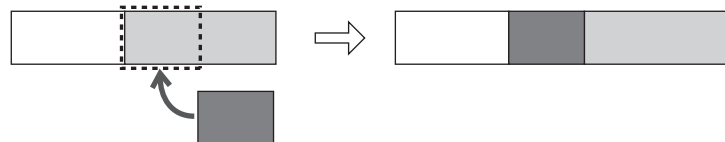
Switching the Editing Mode

Switching the Mode when Placing/Moving Clips

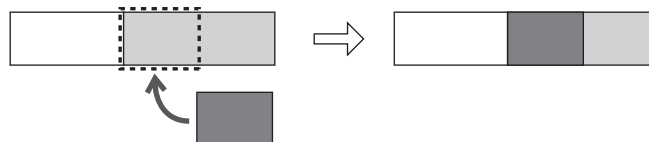
You can switch clip operations when placing clips on the timeline or operations for linking clips on the track by the editing mode.

Insert/Overwrite Mode

In the insert mode, if a clip exists at the position where you place a clip, the new clip moves the existing clip backward and is inserted at the position in between.

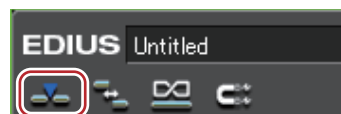


In the overwrite mode, if a clip exists at the position where you place a clip, the new clip overwrites part of existing clip overlapped by the new clip.



1 Click [Toggle Insert/Overwrite Mode] on the mode bar.

Each click switches between the insert mode and the overwrite mode.



: Insert mode

: Overwrite mode

The current mode (insert mode/overwrite mode) is displayed on the status bar of the timeline.

Alternative

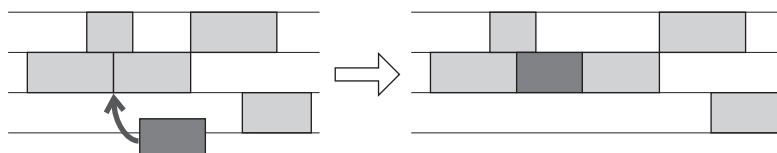
- Switch overwrite/insert mode: [Insert]

Sync-lock (Synchronization)

The result of track editing such as insertion or moving a clip affects other tracks, too, when sync-lock is set to a track.

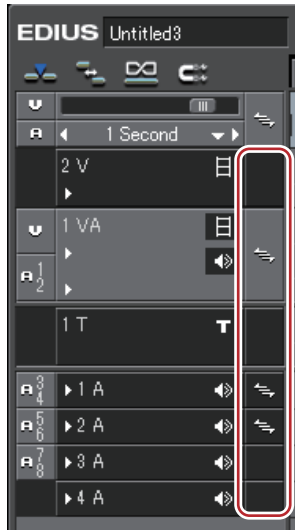
Example:

When sync-lock is set to all three tracks and a clip has been added in the insert mode:

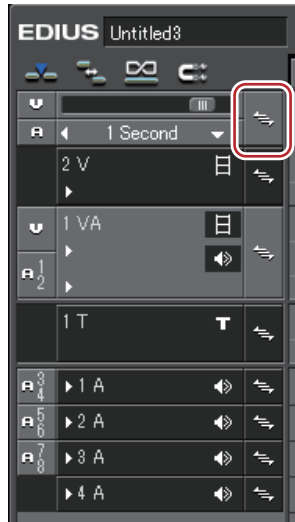


1 Click the lock panel of the track to which sync-lock is set.

An icon is displayed for the track set with sync-lock. Each click switches sync-lock on and off.



To set sync-lock to all tracks, click the batch lock panel.



Alternative

- Right-click the lock panel of the track to set sync-lock to, and click [Track Sync Lock]. To cancel, click [Track Sync Unlock].
- Select the track to set sync-lock to, right-click the batch track panel, and select [Sync Lock Selected Tracks].

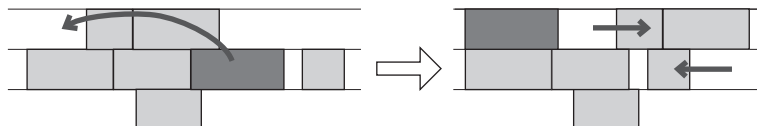
Ripple Mode

In the ripple mode, when a clip is deleted or trimmed, the subsequent clips move forward to prevent spaces from being formed on the timeline. When inserting a clip, you can move the subsequent clips while holding the space at the insert position.

- All subsequent clips following the clip that is being edited between tracks set with sync-lock are interlocked.

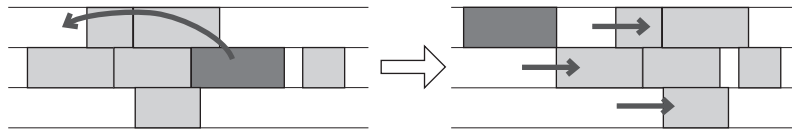
Example:

When sync-lock is disabled on all three tracks and a clip has been inserted with the ripple mode on (insert mode)



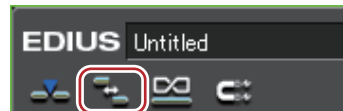
Example:

When sync-lock is set on all three tracks and a clip has been inserted with the ripple mode on (insert mode)

**1 Click [Set Ripple Mode] on the mode bar.**

Each click switches the mode on and off.

A diagonal line appears on the icon when the mode is off.



The current mode (ripple on/ripple off) is displayed on the status bar of the timeline.

Alternative

- Switching ripple mode: [R]

Handling Linked or Grouped Clips Separately

Group/Link Mode

You can temporarily disable links or grouping of linked or grouped clips.

Note

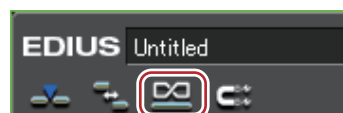
- The links of VA clips on VA tracks cannot be released by setting the group/link mode to off. By switching the group/link mode, the links of clips placed separately on the V and A tracks are targeted for this operation. When releasing the links of VA clips, release links individually.

Unlinking Clips ▶ P238

1 Click [Set Group/Link Mode] on the mode bar.

Each click switches the mode on and off.

A diagonal line appears on the icon when the mode is off.

**Alternative**

- Switching group/link mode: [Shift] + [L]

Snapping to Events when Moving Clips

Event Snap Mode

Switch the enable/disable setting of the snap function.

- You can set events to be used as the snap destination by [Application] in [User Settings] → [Timeline].
[Timeline] ▶ P90

1 Click [Snap to Event] on the mode bar.

Each click switches the mode on and off.

A diagonal line appears on the icon when the mode is off.



Maintaining Overall Length of Clips when Setting Transition

Extend/Fix mode

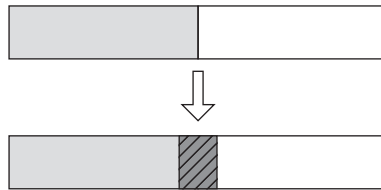
When adding a transition or audio cross fades between clips, set whether to add without changing the length of the whole clip (extend mode) or add without changing the length of individual clips (fix mode).

Clip Transition ► P338

Audio Cross Fade ► P339

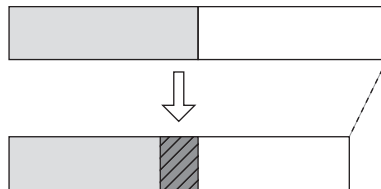
Extend Mode

Even when adding/deleting a transition or an audio cross fades between clips, the length of the whole clip on the timeline remains unchanged.



Fix mode

When adding/deleting a transition or an audio cross fades between clips, the length of the whole clip on the timeline shortens (lengthens) by the amount that the transition/audio cross fades was applied.



Setting the Extend/Fix Mode

- If you add [Toggle Extend Clips when Applying Transition/Cross Fade] as an operation button in advance to the timeline, you can switch between the extend/fix modes simply by clicking the button.

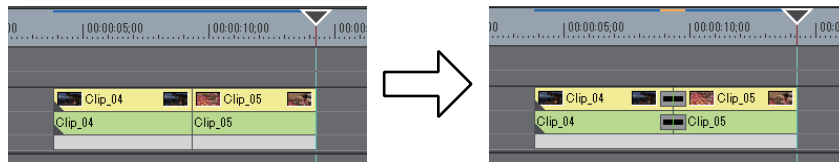
Operation Button Settings ► P119

Setting the Extend Mode

- 1 Click [Settings] on the menu bar, and click [User Settings].
- 2 Click the [Application] tree, and click [Timeline].
- 3 Check [Extend Clips when Applying Transition/Cross Fade].

When transition/audio cross fade is set...

As In/Out points of left and right clips extend when a transition has been set or its length has been changed, the total length of clips on the timeline remains unchanged.



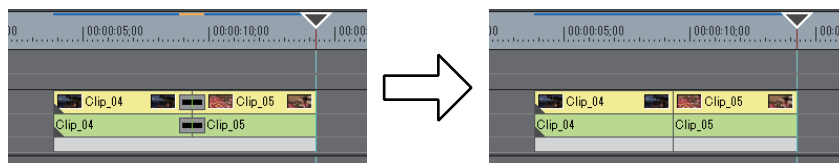
Note

- If a clip does not have a margin, transition/audio cross fades cannot be set (except for mixer area). You can extend the length of transitions by the margin of the clip.

Margin of Clip ▶ P337

When transition/audio cross fade is deleted...

Clips contract by the extended amount due to the setting, and the total length of clips on the timeline remains unchanged.



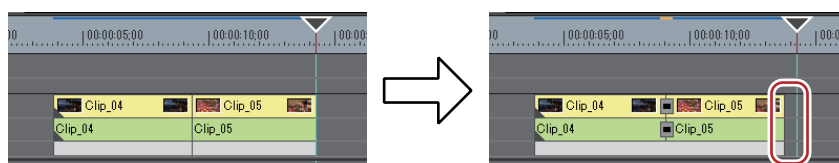
- When one of the clips set with transition is deleted, the transition also is deleted at the same time. The length of the remaining clip changes, extending to the middle of the transition (the length including the extended amount when setting the transition).

Setting the Fix Mode

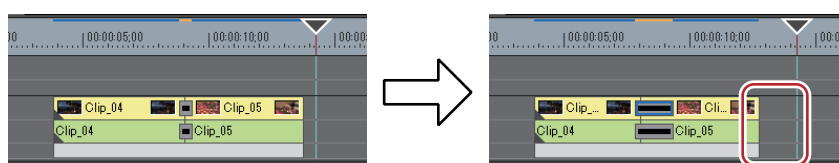
- 1 Click [Settings] on the menu bar, and click [User Settings].
- 2 Click the [Application] tree, and click [Timeline].
- 3 Uncheck [Extend Clips when Applying Transition/Cross Fade].

When transition/audio cross fade is set...

Left and right clips overlap with each other by the preset transition amount. The total length of the whole clip on the timeline shortens.

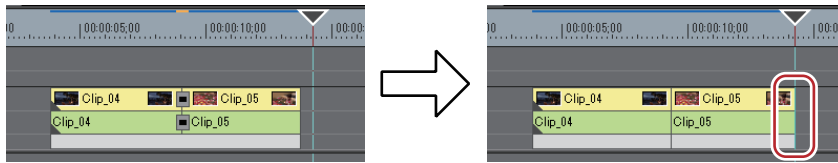


When the length of the transition has been changed, clips move to the left, and the length of the whole clip on the timeline changes according to the transition length.



When transition/audio cross fade is deleted...

The length of the whole clip on the timeline lengthens by the preset transition amount.



- To move the clips of other tracks together, turn on sync-lock of the track to move together with the track containing the clip to which transition/audio cross fades has been added.

Sync-lock (Synchronization) ▶ P219

Placing Clips

Setting Channel Mapping

Set which track the channel containing the source clip (source channel) should be mapped to when placing clips on the timeline. When performing editing operations such as placing clips or pasting them with shortcut keys, the clips are placed on a track according to the channel mapping setting.

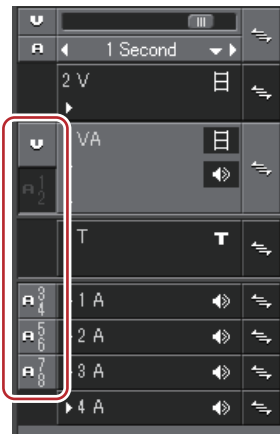
Connecting/Disconnecting the Source Channel

Connect or disconnect the channel containing the source clip (source channel). Disconnected channels are not placed on the timeline.

1 Select the source clip to be placed.

The source channel is displayed in the track patch.


2 Click the track patch of the unnecessary source channel to disconnect.

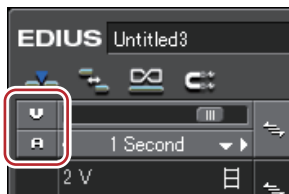


Each click switches between connect/disconnect.

Alternative

- Right-click the track patch of the source channel, and click [Connect Source Channel (Video) (Toggle)]([Connect Source Channel (Audio) (Toggle)]).
- Connecting/disconnecting video source channel: [7]
- Connecting/disconnecting audio source channel: [8]

-  • You can connect/disconnect multiple source channels all together. Click [Connect Source Channel (Video) - Toggle] or [Connect Source Channel (Audio) - Toggle].



- As the default settings, 1st audio channel in each track is assigned to the 1st channel of the export destination, and 2nd audio channel is assigned to the 2nd channel of the export destination.

[Audio Channel Map] Dialog Box ▶ P44

- To place an audio source channel as a monaural channel or stereo channel, right-click [Connect Source Channel (Audio) (Toggle)] and click [Audio Source Channel (Stereo)]. Each click switches between the monaural channel mode and stereo channel mode.

When the monaural channel mode is set:



When the stereo channel mode is set:



- If you add [Audio Source Channel Mode (Stereo/Monoral)] as an operation button in advance to the mode bar, you can switch between the modes simply by clicking the button.

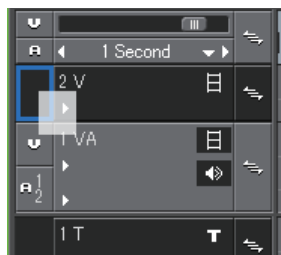
Operation Button Settings ▶ P119

Changing the Connection Destination of Source Channels

1 Select the source clip to be placed.

The source channel is displayed in the track patch.

2 Drag and drop the track patch of the desired source channel onto the track patch of the connection destination.



- When the desired source channel has been dragged and dropped onto the track patch to which an audio source channel is connected, the channel is switched.
- To initialize source channel mapping, right-click the track patch of the source channel and click [Reset Source Channel Mapping].

Setting the In and Out Points to the Timeline

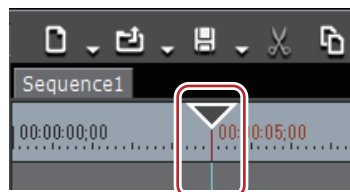
Setting the In and Out Points on the Timeline

By setting the In and Out points on the timeline, you can limit the range to apply operations to between In and Out points, or place clips referenced to the In and Out points.



- (1) Set the In point
- (2) Set the Out point

1 Move the timeline cursor to the position to set the In point.




2 Click [Set In] on the Recorder.

3 Move the timeline cursor to the position to set the Out point.

4 Click [Set Out] on the Recorder.

Alternative

- Move the timeline cursor to the position to set the In and Out points, and right-click the time scale. Click [Set In Point] or [Set Out Point].
- Move the timeline cursor to the position to set the In and Out points, and click [Marker] on the menu bar. Click [Set In Point] or [Set Out Point].
- Move the slider on the Recorder to the position to set the In and Out points, and right-click the slider. Click [Set In Point] or [Set Out Point].
- Setting In and Out points on the timeline: [I]/[O]

-  • You can drag the In and Out point slider on the time scale to reposition the In and Out points.



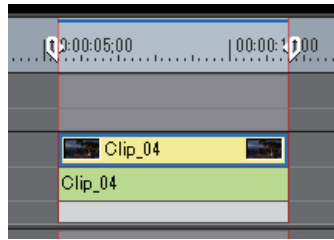
- When the Out point has been set before the In point, the time scale between In and Out points changes color to red and a part of the timecode on the Recorder is displayed in red.
- When duration is entered at [Dur] on the Recorder in the preview window after an In point (or Out point) has been set, the Out point (or In point) is set according to the duration.

Setting In and Out Points to Both Ends of Clips

Set the In and Out points of the timeline to both ends of a selected clip.

1 Select a clip, click [Marker] on the menu bar, and click [Set In/Out Point to Selected Clip].

In and Out points are set to both ends of the clip.



Alternative

- Setting In and Out points to both ends of a selected clip: [Z]

Deleting the In and Out Points on the Timeline

You can delete In and Out points on the timeline.

1 Click the [Set In] ([Set Out]) list button on the Recorder.



2 Click [Clear In Point] ([Clear Out Point]).

Alternative

- Right-click the time scale, and click [Clear In Point] ([Clear Out Point]).
- Click [Marker] on the menu bar, and click [Clear In Point] ([Clear Out Point]).
- Right-click the slider on the Recorder, and click [Clear In Point] ([Clear Out Point]).
- Deleting In and Out Points on the timeline: [Alt] + [I]/[Alt] + [O]

- You can delete In and Out points in a single operation by the following operation:
 - Right-click the time scale, and click [Clear In/Out Point].
 - Click [Marker] on the menu bar, and click [Clear In/Out Point].
 - Deleting In/Out points: [X]

Placing Clips

Placing Clips

You can place source clips on the timeline.

Clip operations at placement and placement results are dependent on the editing mode.

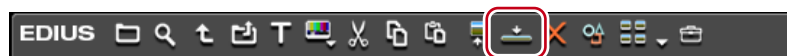
Switching the Editing Mode ▶ P219

1 Set the source channel mapping.

Setting Channel Mapping ▶ P225

2 Move the timeline cursor to the position to place the clip.

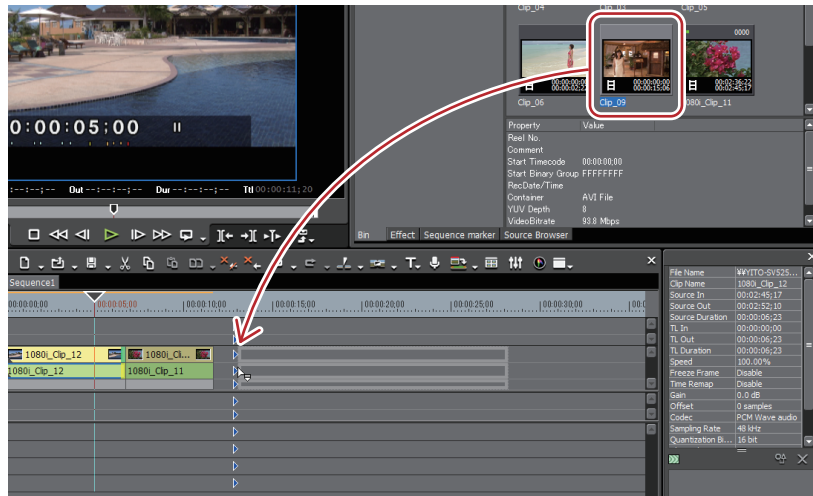
3 Select a clip from the bin, and click [Add to Timeline].



The clip is placed on the track with the position of the timeline cursor set as the In point.

Alternative

- Drag and drop a clip in the bin onto the timeline. Channels can be mapped to any desired track and clips can be placed according to the drop point regardless of the track patch setting.



- Right-click a clip in the bin, and click [Add to Timeline].
- Play back a clip on the Player, and drag and drop the clip onto the timeline from the Player. Channels can be mapped to any desired track according to the drop point regardless of source channel mapping.
- Play back a clip on the Player, and click [Insert to Timeline] or [Overwrite to Timeline].
- Placing a clip displayed on the Player on the timeline: [E]
- Set the source channel mapping, move the timeline cursor to the clip place point, and drag and drop the clip onto the Recorder.
- Placing clips: [Shift] + [Enter]

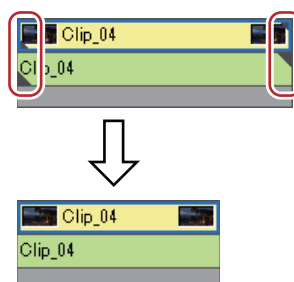


- You can place sources on the timeline without registering them to the bin. Move the timeline cursor to the clip place point, right-click a track, and click [Add Clip]. Select the source from the [Open] dialog box, and click [Open].

Placed Clips

You can confirm that a filter or transition is set from the display of the clip placed on the track.

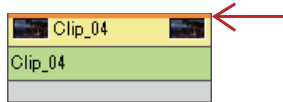
Triangular marks at both ends of the clip mean the start and end of the clip. Triangular marks are displayed when the clip has no margin.



A green line is displayed at the top of the clip when rendering has been performed. An orange line is displayed when filter, time effect, layouter, normalize, etc. has been set.

Example:

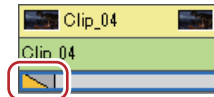
When effect has been set



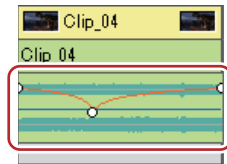
A frame is displayed as follows when a transition or audio cross fades is set between clips.



A triangle is displayed as shown below in the mixer area when a track transition is set at the start point of a clip.



Clicking the audio expand button displays a rubber band and waveform for the volume, and clicking the mixer expand button displays a rubber band for the transparency.



Adjusting the Volume and Pan of a Clip ▶ P399
Transparency ▶ P346

Setting In/Out Points and Placing Clips

You can set In and Out points to clips, and place only the required part on a track.

- 1 Select a clip from the bin, and click [Show in Player].



The same operations can also be performed in the source browser.

- 2 Set the In and Out points to the clip.

Setting the In and Out Points ▶ P176

- 3 Set the source channel mapping.

Setting Channel Mapping ▶ P225

- 4 Move the timeline cursor to the position to place the clip.

- 5 Click [Insert to Timeline] on the Player.



The clip is placed on the track with the position of the timeline cursor set as the In point.

When [Overwrite to Timeline] is clicked, the clip is placed in the overwrite mode.

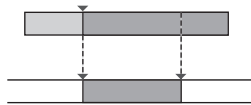
Alternative

- After setting the In and Out points to the clip, drag and drop the clip from the Player to place it on the timeline.
- Placing the clip displayed on the Player on the timeline: [E]

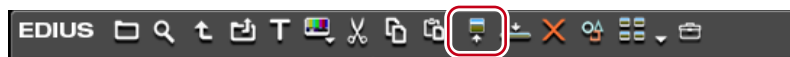
- Divided and placed video and audio clips are set in groups.
Ungrouping ▶ P239

Placing Clips between In and Out Points on the Timeline (3 Point Editing)

Place clips between In and Out points on the timeline. Clips are placed by the length between In and Out points on the timeline.



- 1 Select a clip from the bin, and click [Show in Player].



The same operations can also be performed in the source browser.

Check the video on the Player, and set the In and Out points, if necessary.

Setting the In and Out Points ▶ P176

- 2 Set the source channel mapping.

Setting Channel Mapping ▶ P225

- 3 Set the In and Out points to the timeline.

Setting the In and Out Points on the Timeline ▶ P227

- 4 Click [Insert to Timeline] on the Player.



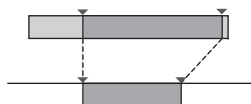
The clip is placed trimmed to the length between In and Out points on the timeline. When the In point has been set, it is placed referenced to the In point.

The playback speed of the placed clip remains unchanged.

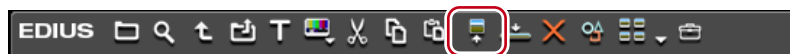
When [Overwrite to Timeline] is clicked, the clip is placed in the overwrite mode.

Placing the In and Out Points of Clips between In and Out Points on the Timeline (4 Point Editing)

Set the In and Out points to the clip, and place it between In and Out points on the timeline. The speed between In and Out points of the clip is adjusted automatically according to the length between In and Out points on the timeline.



- 1 Select a clip from the bin, and click [Show in Player].



The same operations can also be performed in the source browser.

- 2 Set the In and Out points to the clip.

Setting the In and Out Points ▶ P176

Note

- Even if a margin is not assigned to a source, set the In and Out points to the start and end of the source. The editing mode becomes 3-point editing when In and Out points are not set.

- 3 Setting the Source Channel Mapping

Setting Channel Mapping ▶ P225

- 4 Setting the In and Out Points to the Timeline

Setting the In and Out Points on the Timeline ▶ P227

5 Click [Insert to Timeline] on the Player.



The In and Out points of a clip are placed between In and Out points on the timeline. When [Overwrite to Timeline] is clicked, the clip is placed in the overwrite mode.

Note

- When the duration between In and Out points on the timeline differs from that between In and Out points of the clip, the playback speed of the clip is adjusted automatically to stay between In and Out points on the timeline, with the range between In and Out points maintained.

Previewing Cut Switch Points (Preroll Edit (Preview))

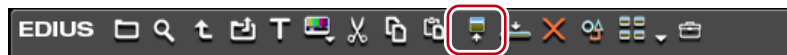
Before placing clips, you can preview where cuts are switched. Before operation, set to the overwrite mode.

Insert/Overwrite Mode ▶ P219

- Using the gang mode before preroll editing is useful in deciding the position where clips are placed on the timeline.

Synchronizing the Player and the Timeline (Gang Mode) ▶ P292

1 Select a clip from the bin, and click [Show in Player].



The same operations can also be performed in the source browser. Check the video on the Player, and set the In point (Out point), if necessary.

Setting the In and Out Points ▶ P176

If the In point is not set, the slider cursor position on the Player is set as the In point.

2 Set the source channel mapping.

Setting Channel Mapping ▶ P225

3 Set the In point to the start position where the cut is switched.

Setting the In and Out Points on the Timeline ▶ P227

If the In point is not set, the current timeline cursor position is set as the In point.

Set the Out point, if necessary.

4 Click [Pre-roll Edit (Preview)] on the Player.



The [Pre-roll Edit (Preview)] dialog box appears, and playback near the In point on the timeline starts.

5 Check where the cut is switched on the Recorder, and click [Retry] or [All Stop].

To preview again where the cut is switched, click [Retry].

To end the preview, click [All Stop].

- By default, [Pre-roll Edit (Preview)] is not displayed. Before performing the operation, set to display the buttons on the Player.

Operation Button Settings ▶ P119

- You can set the preliminary operation time (preroll/postroll) at [Preview] in [User Settings] → [Pre-Roll Editing]. *[Pre-Roll Editing]* ▶ P96

Placing Clips while Checking Cut Switch Points (Preroll Edit (Rec))

You can place clips on the timeline while checking where cuts are switched.

Before operation, set to the overwrite mode.

Insert/Overwrite Mode ▶ P219

1 Select a clip from the bin, and click [Show in Player].



The same operations can also be performed in the source browser.

Check the video on the Player, and set the In point (Out point), if necessary.

Setting the In and Out Points ▶ P176

If the In point is not set, the slider cursor position on the Player is set as the In point.

2 Setting the Source Channel Mapping

Setting Channel Mapping ▶ P225

3 Set the In point to the start position where the cut is switched.

Setting the In and Out Points on the Timeline ▶ P227

If the In point is not set, the current timeline cursor position is set as the In point.

Set the Out point, if necessary.

4 Click [Pre-roll Edit (Rec)] on the Player.



The [Pre-roll Edit (Rec)] dialog box appears, and playback near the In point on the timeline starts.

5 Check where the cut is switched on the Recorder, and click [Rec Out] or [All Stop] at the cut switch end position.

Clips are overwritten and placed on the timeline, setting the position where [Rec Out] or [All Stop] is clicked as the Out point.

When [Rec Out] is clicked, the In point set in step 1 or 3 is updated to the position where [Rec Out] is clicked.

When [All Stop] is clicked, the information of the In point (Out point) set in step 1 or 3 remains as it is.

6 Adjust the In point position on the Player if necessary, and repeat operations after step 4.



- By default, [Pre-roll Edit (Rec)] is not displayed. Before performing the operation, set to display the buttons on the Player.

Operation Button Settings ▶ P119

- You can set the preliminary operation time (preroll/postroll) at [Preview] in [User Settings] → [Pre-Roll Editing].
[Pre-Roll Editing] ▶ P96

Placing Special Clips on the Timeline

You can create color bar clips, color matte clips, and title clips on the timeline.

1 Click [Create Title] on the timeline.



2 Click the clip to create.

When the In and Out points have not been set on the timeline, the clip is created at the position of the timeline cursor. The duration of the created clip can be set by [Source] in [User Settings] → [Duration].

When the In and Out points have been set on the timeline, the clip is created between In and Out points. You can set whether to create clips between In and Out points or at the cursor position by [Source] in [User Settings] → [Duration].

[Duration] ▶ P97

Note

- When all source channels have been released (track patch all set to off), color bar clips, color matte clips and title clips cannot be created. Also, title clips cannot be created when the video source channel is released.

Connecting/Disconnecting the Source Channel ► P225

3 Edit the clip.

Color Bar Clips ► P192

Color Matte Clips ► P192

Quick Titler ► P371

Alternative

- Right-click the track to create the clip on, and click [New Clip] → clip to create. The clip is placed at the right-clicked track regardless of the channel mapping settings.
- Click [Clip] on the menu bar, and click [Create Clip] → clip to create.

- Color matte bars, color mattes and title clips placed on the timeline can be edited by the following operation.
 - Select the clip to edit, and click [Clip] on the menu bar → [Edit].
 - Double-click the clip to edit.
 - Editing selected clip: [Shift] + [Ctrl] + [E]

Moving Clips to Desired Positions

Drag a clip placed on the timeline, and drop it onto the destination. Clips can be moved to any desired position, including different tracks.

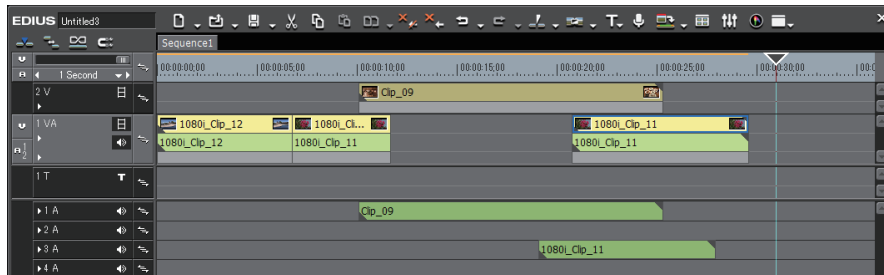
Selecting Multiple Clips

You can select all clips in the same track. You can also select all clips on the timeline.

1 Click the track panel to select the track.

2 Right-click the timeline, and click [Select] → [Selected Tracks].

All clips on the selected track are selected.



When [All Tracks] is clicked, all clips on the timeline are selected.

Alternative

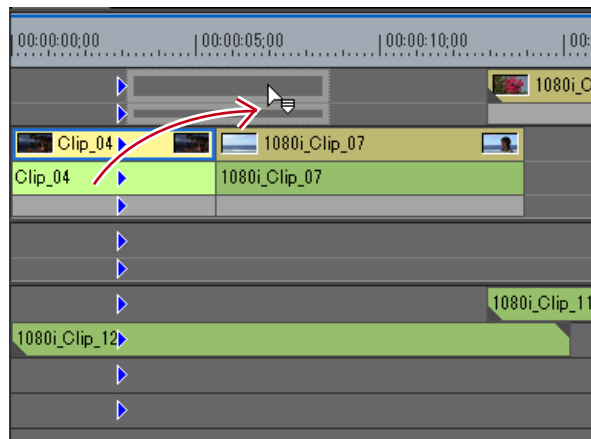
- Click a clip with [Ctrl] on the keyboard held down to add or remove the clip one at a time.
- Specify the range including the clip by dragging from the start point to the end point on the timeline.
- Click [Edit] on the menu bar, and click [Select] → [Selected Track] or [All Tracks].
- Selecting all clips on the selected track: [Ctrl] + [A]
- Selecting all clips on timeline: [Shift] + [A]

Moving Clips

You can move clips by dragging and dropping. You can also move multiple clips at the same time.

Selecting Multiple Clips ► P234

1 Select a clip, and drag and drop it at the destination.



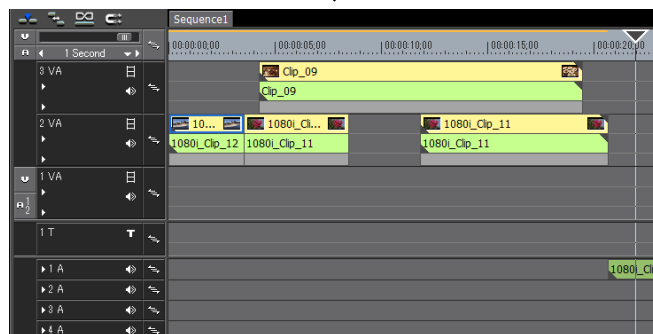
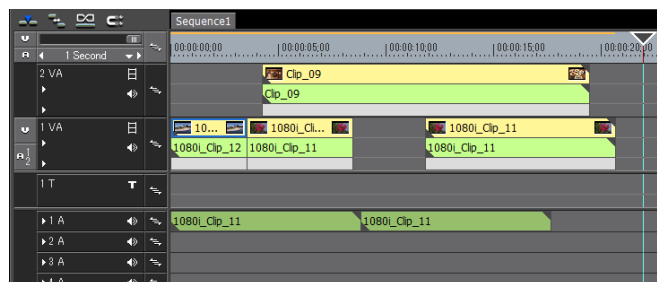
Clip operations at move and move results are dependent on the editing mode.

Switching the Editing Mode ▶ P219

When you select clips over multiple tracks and move them to the area where the corresponding type of track does not exist, a track is automatically added.

Example:

When multiple clips on the 1VA track and 2VA track have been selected, and dragged and dropped to a track above



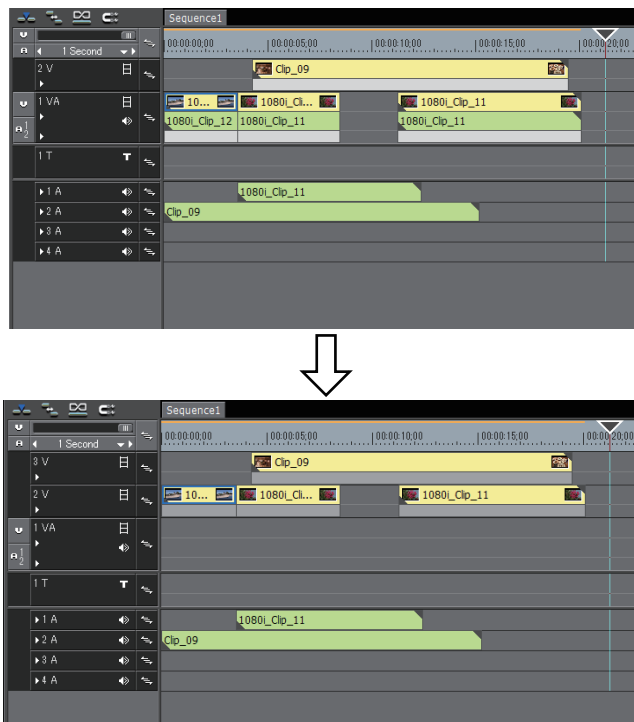
Alternative

- Right-drag the clip to the move destination, and click [Overwrite] or [Insert]. Clips can be moved in the overwrite mode or insert mode regardless of the editing mode.

Note

- When you have selected multiple clips placed on different types of tracks and dragged across tracks, only clips placed between tracks of the same type move.

When multiple clips on the 1VA track, 1T track, and 1A track have been selected and dragged and dropped to a track above, the screen is displayed as follows.



- When only one of two clips set with a clip transition or audio cross fades is moved, only the selected clip moves and the transition is released.

Moving a Selected Clip and Subsequent Clips

You can move a selected clip and the subsequent clips within the same track with each position maintained.

- 1 **Select the starting clip of the clips to be moved, and drag it with [Shift] and [Alt] on the keyboard held down.** The mouse cursor changes shape, and clips following the selected clip move at the same time. The clips of tracks set with sync-lock also are interlocked.

Sync-lock (Synchronization) ▶ P219

Searching for Clips Placed on the Timeline in the Bin


Searching for Clips on the Timeline in the Bin

You can search clips placed on the timeline in the bin according to specified conditions. The search result folder is created in the folder view of the bin.

- 1 **Select a clip to search from the timeline.**
- 2 **Click [Clip] on the menu bar, and click [Search Bin] → a search condition.**

The search result folder is created in the folder view of the bin to display clips matching the search conditions

Alternative

- Right-click a clip, and click [Search Bin] → search condition.
-  • The search result folder created once according to specified conditions starts searching clips matching the conditions each time it is opened and confirmed. Clips newly registered to the bin also are targeted in the search.

- You can change the setting to refine the search or search conditions in the bin for clips in the search result folder.

Searching in the Bin ▶ P205

Deleting Search Results ▶ P207

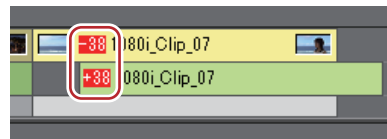
- When [Including Cursor (Recorder)] has been clicked in the search conditions, the name of the search result folder is displayed on the source timecode.

Clip Operations

Handling Only the Video Part or Audio Part of Clips Separately



- Conditions for setting a link are as follows:
 - The clip is placed in the same track.
 - Part of the clip is overlapping.
 - The clip is referencing the same source.
- When the group/link mode is switched, the video part and audio part of all clips in the sequence can be temporarily handled separately.
Group/Link Mode ▶ P221
- When the start points of the video and audio clips set with a link are out-of-position, the number of frames that the clips are out by is displayed at the top of the clip.



Unlinking Clips

The video and audio parts in a video clip on the VA track can be separated. By releasing the link, you can handle them as independent clips.

- 1 On the timeline, right-click the clip to unlink, and click [Link/Group] → [Unlink].



Alternative

- Click [Clip] on the menu bar, and click [Link/Group] → [Unlink].
- Unlinking: [Alt] + [Y]

Link Settings

Unlinked video clips and audio clips can be re-linked.

- 1 On the timeline, select the respective video and audio clips to be linked.
- 2 Right-click a clip, and click [Link/Group] → [Link].

The link is set, and you can handle it as a single clip.



Alternative

- Click [Clip] on the menu bar, and click [Link/Group] → [Link].
- Setting link: [Y]

Handling Multiple Clips as a Single Clip



- When the group/link mode is switched, all groups in a sequence are temporarily ungrouped, and the video part and audio part of clips can be handled separately.
Group/Link Mode ▶ P221

Setting Groups

Handle multiple clips as a single group. You can group the clips over different tracks.

- 1 On the timeline, select the multiple clips to be grouped.
- 2 Right-click a clip, and click [Link/Group] → [Set Group].

Alternative

- Click [Clip] on the menu bar, and click [Link/Group] → [Set Group].
- Setting group: [G]

Ungrouping

You can restore grouped clips to their original separate clips.

- 1 **Right-click a clip in the group, and click [Link/Group] → [Ungroup].**

Alternative

- Click [Clip] on the menu bar, and click [Link/Group] → [Ungroup].
- Ungrouping: [Alt] + [G]

Copying and Pasting Clips

Copying

- 1 **Select a clip, and click [Copy] on the timeline.**



You can continue to paste and replace clips.

Alternative

- Right-click a clip and click [Copy].
- Click [Edit] on the menu bar, and click [Copy].
- Copying: [Ctrl] + [C], [Ctrl] + [Insert]

Cutting

Cut clips. The cut clip is deleted from its current position.

- 1 **Select a clip, and click [Cut (Follow Mode)] on the timeline.**



The editing result of a cut operation is dependent on the editing mode.

Ripple Mode ▶ P220

Sync-lock (Synchronization) ▶ P219

You can continue to paste and replace clips.

Alternative

- Right-click a clip, and click [Cut] or [Ripple Cut].
- Select a clip, click [Edit] on the menu bar, and click [Cut] or [Ripple Cut].
- Cutting (mode-dependent): [Ctrl] + [X]
- Cutting: [Shift] + [Delete]
- Ripple cutting: [Alt] + [X]

Pasting

You can paste copied or cut clips to the timeline.

- 1 **Select a clip, and copy or cut it.**

Copying ▶ P239

Cutting ▶ P239

- 2 **Select a track, and move the timeline cursor to the paste position.**

3 Click [Paste to Current Location] of the timeline.



The clip is placed with the position on the timeline cursor set as the In point.

Alternative

- Right click on the track to paste to, and click [Paste]. At this time, the clip will be pasted to the right-clicked track regardless of the currently selected track.
- Click [Edit] on the menu bar, and click [Paste] → [Cursor].
- Right click on any clip on the track to paste to, and click [Paste] → [Cursor]. At this time, the clip will be pasted to the position of the timeline cursor on the right-clicked track regardless of the currently selected track.
- Pasting: [Ctrl] + [V]

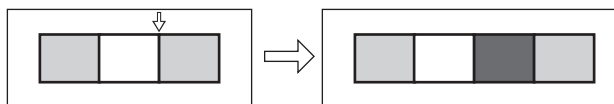
- When a clip is pasted by a button, shortcut key or from a menu on the menu bar, the clip is placed at the same track as the copy/cut source. A track is automatically added if there is no track at the paste destination.
- If a clip exists at the destination position, it is divided at the position of the timeline cursor and the pasted clip overwrites the existing clip or is inserted between the divided clips.

Pasting to the In and Out Points of Clips

You can insert another clip at (or in front of) the In point or at (or behind) the Out point of a specific clip.

Example:

When pasting another clip to the Out point of the white clip



1 Select a clip, and copy or cut it.

Copying ▶ P239

Cutting ▶ P239

2 Click the clip to be used as the reference for pasting.

3 Click [Edit] on the menu bar, and click [Paste] → [Clip In] or [Clip Out].

[Clip In]	Insert the clip at (or in front of) the In point of the selected clip.
[Clip Out]	Insert the clip at (or behind) the Out point of the selected clip.

Alternative

- Right-click the clip to be used as the reference for pasting, and click [Paste] → [Clip In] or [Clip Out].

Replace

You can replace a copied, cut or ripple cut clip.

1 Select a clip, and copy or cut it.

Copying ▶ P239

Cutting ▶ P239

2 Select a clip to replace, and click [Replace Clip (All)] on the timeline.



All of the mixers and filters applied to the clip also are replaced.

Alternative

- Right-drag on the desired clip to be replaced, and click [Replace].
- Click the [Replace Clip (All)] list button, and click [All].
- Right-click the clip to be replaced, and click [Replace] → [All].

- Click [Edit] on the menu bar, and click [Replace] → [All].
- Replacing all: [Ctrl] + [R]

Note

- When the duration differs from that of the clip to be replaced by a copied or cut clip, the clip will automatically be trimmed referenced to the In point of the copied or cut clip. The playback speed remains unchanged.

Replace Parts

Only filters and mixers can be partially replaced.

1 Select a clip, and copy or cut it.

Copying ▶ P239

Cutting ▶ P239

2 Select the clip to replace.

3 Click the [Replace Clip (All)] list button on the timeline.



4 Click the replace item.

Alternative

- Right-drag on the desired clip to be replaced, and click [Replace parts] → replace items.
- Click [Edit] on the menu bar, and click [Replace] → replace items.
- Right-click the replace target clip, and click [Replace] → replace items.
- Replacing the filter: [Alt] + [R]
- Replacing the mixer: [Shift] + [Ctrl] + [R]
- Replacing the clip: [Shift] + [R]
- Replacing the clip with filter: [Shift] + [Alt] + [R]

Dividing Clips at Desired Locations

Dividing Clips at the Timeline Cursor Position

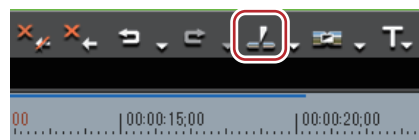
You can divide clips at the timeline cursor position. After dividing a clip, you can handle its divided segments as independent clips.

1 Select the clips to be divided.

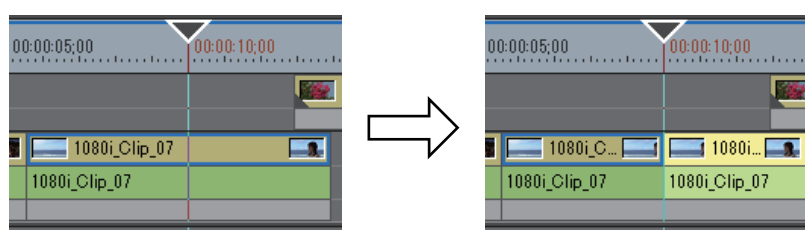
You can select multiple clips.

2 Move the timeline cursor to the position where the clip is to be divided.


3 Click [Add Cut Point (Selected Tracks)] of the timeline.



The clip is divided at the timeline cursor position.



 **Alternative**

- Click the [Add Cut Point] list button, and click [Selected Tracks].
 - Right-click the clip where the cut point is to be added, and click [Add Cut Point] → [Selected Tracks]. By this operation, the right-clicked clip is divided at the timeline cursor position regardless of the currently selected track.
 - Click [Edit] on the menu bar, and click [Add Cut Point] → [Selected Tracks].
 - Adding cut point at current position (selected tracks): [C]
-  • When the currently selected clip is at the timeline cursor position, that clip is divided regardless of the selected tracks.
- By the following operation, you can divide the clips on all tracks at the timeline cursor position in a single operation.
 - Click the [Add Cut Point] list button, and click [All Tracks].
 - Right-click any clip, and click [Add Cut Point] → [All Tracks].
 - Click [Edit] on the menu bar, and click [Add Cut Point] → [All Tracks].
 - Adding cut point (all tracks): [Shift] + [C]

Dividing Clips at the In and Out Points

You can set the In and Out points on the timeline to divide the clip at a desired position.

1 Select the track where the clip to be divided is currently placed.

Multiple tracks also can be selected.

Selecting Tracks ▶ P214

2 Setting the In and Out Points to the Timeline


Setting the In and Out Points on the Timeline ▶ P227

3 Click the [Add Cut Point (Selected Tracks)] list button on the timeline.



4 Click [In/Out (Selected Tracks)].

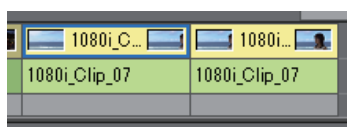
 **Alternative**

- Right-click the desired clip on the track where the cut point is to be added, and click [Add Cut Point] → [In/Out (Selected Tracks)].
 - Select the track where the clip to divide is currently placed, click [Edit] on the menu bar, and click [Add Cut Point] → [In/Out (Selected Tracks)].
 - Adding cut point at In/Out points (selected tracks): [Alt] + [C]
-  • When the currently selected clip is at the In or Out point, that clip is divided regardless of the selected tracks.
- By the following operation, you can divide the clips on all tracks at the In and Out points on the timeline in a single operation.
 - Click the [Add Cut Point] list button, and click [In/Out (All Tracks)].
 - Right-click any clip, and click [Add Cut Point] → [In/Out (All Tracks)].
 - Click [Edit] on the menu bar, and click [Add Cut Point] → [In/Out (All Tracks)].
 - Adding cut point at In/Out points (all tracks): [Shift] + [Alt] + [C]

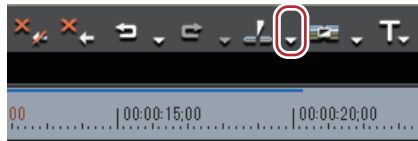
Combining Divided Clips

You can recombine divided clips.

1 Select 2 clips to be combined.

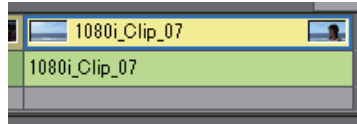


2 Click the **[Add Cut Point (Selected Tracks)]** list button on the timeline.



3 Click **[Remove cut points]**.

The 2 clips are combined, and can be handled as a single clip.



Alternative

- Right-click a clip and click **[Remove cut points]**.
- Click **[Edit]** on the menu bar, and click **[Remove cut points]**.
- Deleting cut point: **[Ctrl] + [Delete]**



- Three or more clips can be combined with the same operation.



Note

- **[Remove cut points]** is available only when neighboring clips are referencing the same source.
- When combining clips, if individual effects (e.g. video filter) or layouts have been applied to the clips before combining, the effect of clips placed to the leftmost side of the timeline are applied to clips after combining and other effects are deleted.
- The two clips before combining cannot be combined if their playback speed is different. Also, the settings of clips from the second clip from the left and onwards are discarded if a time remap has been set.
- When combining clips, the rubber band setting before combining is maintained. Note, however, that priority is given to the settings of subsequent clips when the rubber band points of the combined section are out-of-position.

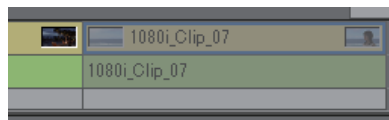
Preventing Playback of Clips

Clip Enable/Disable

You can disable clips placed on the timeline. Disabled clips cannot be played back.

1 Right-click the clip to disable, and click **[Enable/Disable]**.

Disabled clips are displayed in gray regardless of their type.



Alternative

- Select the clip to disable, click **[Clip]** on the menu bar, and click **[Enable/Disable]**.
- Enabling/disabling clips: **[0]**



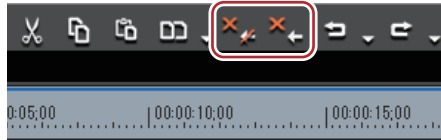
- You can enable disabled clips by the same operation.
 - Disabled clips can be edited in the same way as enabled clips.

Deleting Clips

Deleting Clips/Ripples

Delete clips placed on the timeline.

- 1 Select a clip, and click [Delete] or [Ripple delete] on the timeline.



The selected clip is deleted.

Regardless of the on/off setting of the ripple mode, when [Delete] is clicked, the selected clip is deleted, and when [Ripple delete] is clicked, all clips behind the deleted clip move forward together.

Alternative

- Select a clip, click [Edit] on the menu bar, and click [Delete] or [Ripple delete].
- Right-click the clip to delete, and click [Delete] or [Ripple delete].
- Deleting clip (mode-dependent): [Delete]
- Ripple deleting clip: [Alt] + [Delete]

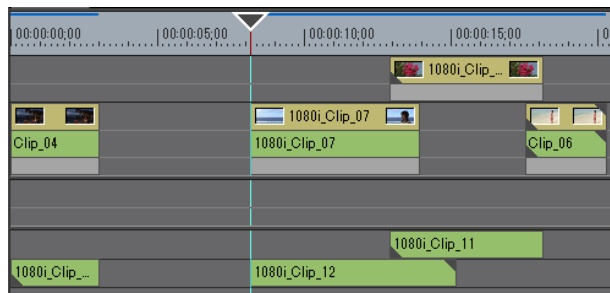
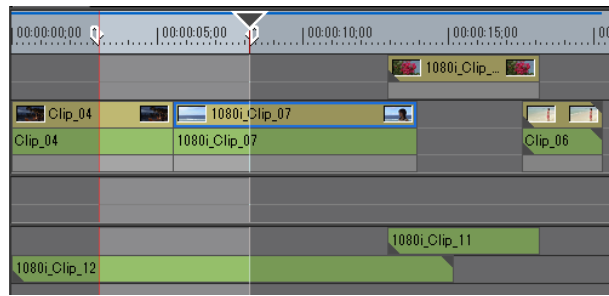
Deleting/Ripple Deleting between In and Out Points on the Timeline

Delete the range of the clip between In and Out points on the timeline.

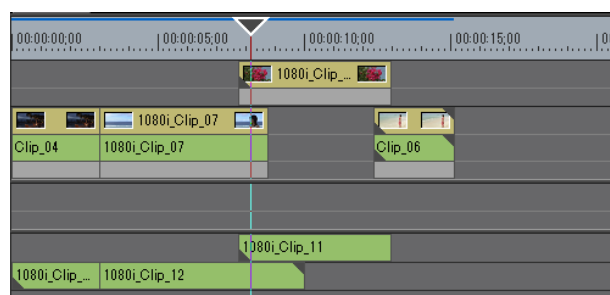
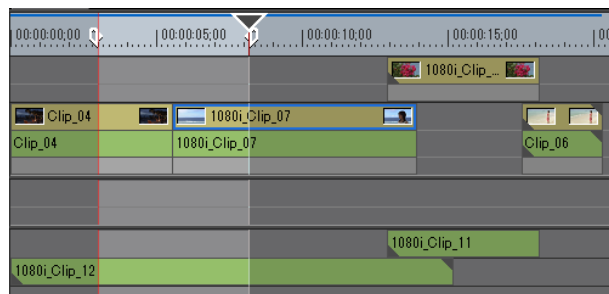
- 1 **Setting the In and Out Points to the Timeline**
Setting the In and Out Points on the Timeline ► P227

2 Click [Edit] on the menu bar, and click [Delete In/Out] or [Ripple Delete In/Out].

When [Delete In/Out] is clicked, all clips between In and Out points are deleted.



When [Ripple Delete In/Out] is clicked, all clips between In and Out points are deleted, and clips behind the deleted clips are moved forward together.



Alternative

- Right-click the time scale, and click [Delete In/Out] or [Ripple Delete In/Out].
- Right-click a track, and click [Delete In/Out] or [Ripple Delete In/Out].
- Deleting between In and Out points on the timeline (mode-dependent): [D]
- Ripple deleting between In and Out Points on the timeline: [Alt] + [D]



- When only the In point has been set, the range of the clip after the In point is deleted, and when only the Out point has been set, the range of the clip from the beginning of the timeline to the Out point is deleted.

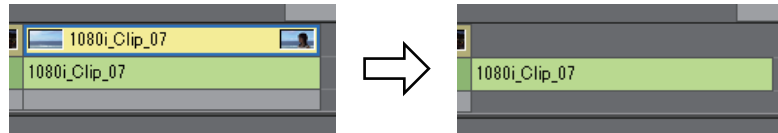
Deleting/Ripple Deleting Only Video/Audio Clips

Delete only the video part or audio part of video clips with audio.

- 1 Select a clip.
- 2 Click [Edit] on the menu bar, and click [Delete Parts] → an item.

Example:

When deleting video clips



Alternative

- Right-click a clip and click [Delete Parts] → an item.
- Unlink the clip, select only the video clip or audio clip, and delete/ripple delete.

Unlinking Clips ► P238

Deleting Clips/Ripples ► P244

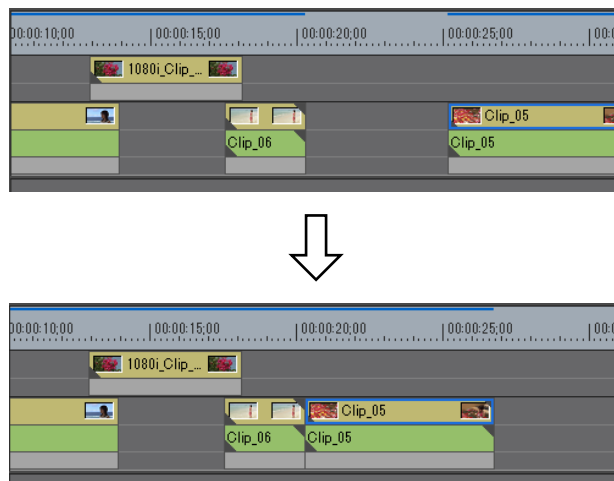
- Once the clips are dragged and placed on the A track (V track), the video (audio) part is disabled.
- Deleting video clip only (mode-dependent): [Alt] + [V]
- Deleting audio clip only (mode-dependent): [Alt] + [A]

Deleting Gaps (Blanks)

Delete blank spaces between clips, and move clips behind forward.


- 1 Right-click the gap to be deleted, and click [Delete Gap].

The gap is deleted, and the clips behind are connected to the previous clip.

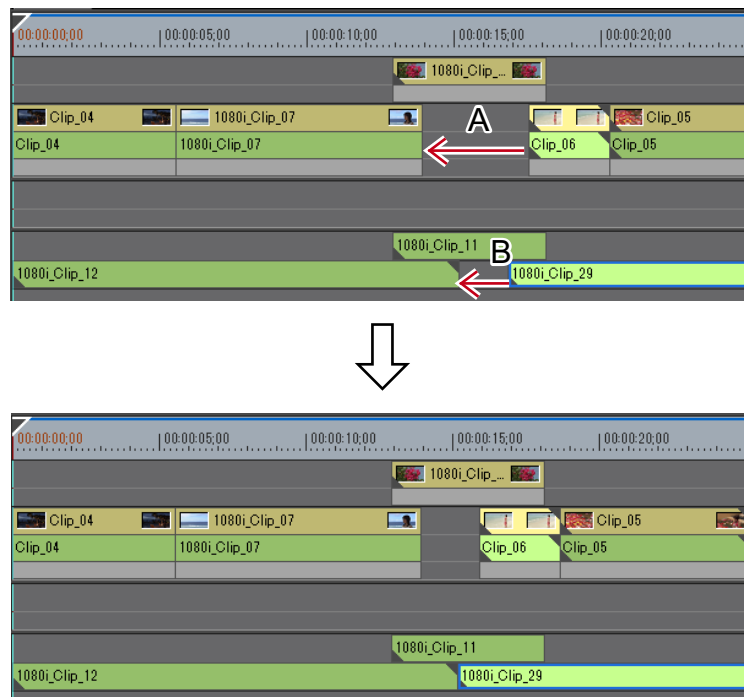


Alternative

- Select the clip behind the gap to delete, and press [Shift] + [Alt] + [S] or [Backspace] on the keyboard.
- Select the clip behind the gap to delete, and click [Edit] → [Delete Gap] → [Selected Clip] on the menu bar.
- Move the timeline cursor to the position of the gap to delete, select a track and click [Edit] → [Delete Gap] → [Cursor] on the menu bar.
- To delete multiple gaps at a time, select multiple gaps behind the gap to delete and perform the operation above.

-  • When sync-lock is set to on, the length of clips including linked tracks becomes the shortest by moving forward as a result of deleting the gap. Ripple delete does not function if there are no gaps on other tracks.

When deleting the gap of A with sync-lock set to on, the screen is displayed as follows.



Deleting the gap A is limited to the gap length of B.

Changing the Playback Speed

- When [Speed] or [Time Remap] is set, menu items to be displayed when each item is set is checked.

Note

- When the playback speed of clips is changed, ancillary data will be deleted.

Changing the Speed of the Whole Clip

You can change the playback speed of clips.

1 Right-click a clip, and click [Time Effect] → [Speed].

The [Speed] dialog box appears.

[Speed] Dialog Box ▶ P248

Alternative

- Click [Clip] on the menu bar, and click [Time Effect] → [Speed].
- Changing the speed of the whole clip: [Alt] + [E]

2 Set each item and click [OK].

An orange line is displayed on clips whose speed has been changed.

- The speed of multiple clips placed on separate clips can be changed in a single operation. A message is displayed if the speed change cannot be set depending on the combination of clips.

Note

- The playback speed cannot be changed for split trimmed clips on the VA track. To change the speed, unlink the clip.
Split Trim ▶ P268
Unlinking Clips ▶ P238

[Speed] Dialog Box

<p>[Speed]</p>	<p>[Direction] Select the playback direction of the clips.</p> <p>[Rate] Enter the ratio to the original speed (100%). Since the speed is changed referenced to the In point, when [Change the Clip Duration on Timeline] is unchecked, the upper limit of Rate that can be entered changes according to the margin on the Out point side of the source clip. When there is no margin on the Out point side, a Rate greater than 100% cannot be entered.</p>
<p>[Change the Clip Duration on Timeline]</p>	<p>Check this item to change the duration of clips on the timeline according to the speed (value of [Rate]) of the clip. The duration of the clip can be entered at [Duration] to change the speed. When this item is unchecked, the speed can be changed without changing the duration of the clip on the timeline.</p>
<p>[Field Option]</p>	<p>The [Field Option] dialog box appears. <i>[Field Option] Dialog Box ▶ P253</i></p>

Partially Changing Playback Speed (Time Remap)

You can alter the speed of any part of a clip.

You can remap a particular frame of a clip to a different position of the timeline. The remaining frames are automatically interpolated, and as a result the speed of the previous/next frames is changed. The In point of a clip, the frame of the Out point and the overall length remain unchanged.

1 Right-click a clip, and click [Time Effect] → [Time Remap].

The [Time Remap] dialog box appears.

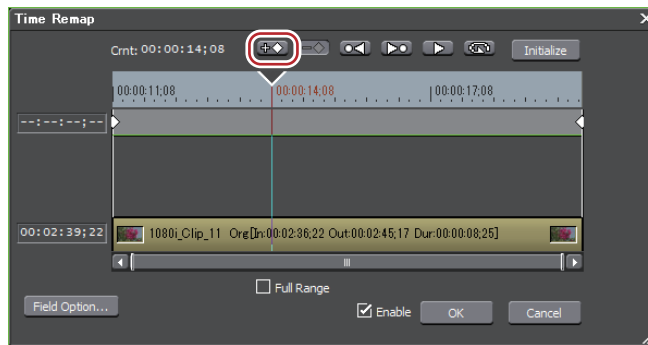
[Time Remap] Dialog Box ▶ P251

Alternative

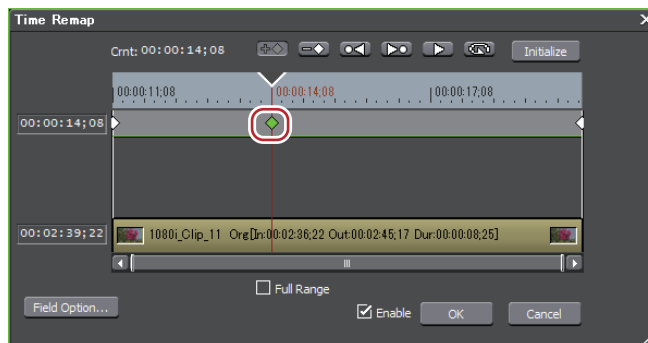
- Click [Clip] on the menu bar, and click [Time Effect] → [Time Remap].
- Partially changing playback speed: [Shift] + [Alt] + [E]

2 Drag the timeline cursor.

3 Click [Add Key] at the position to add the key.



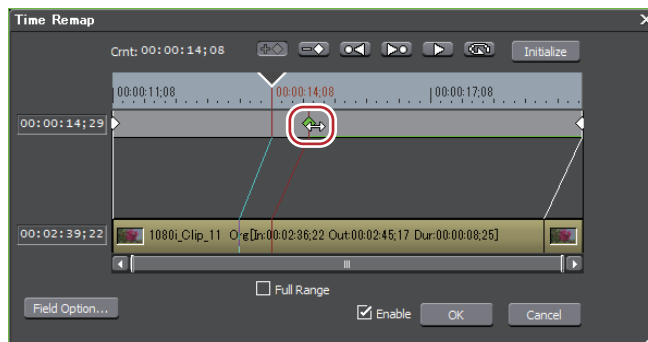
The key is added in the key setting field.



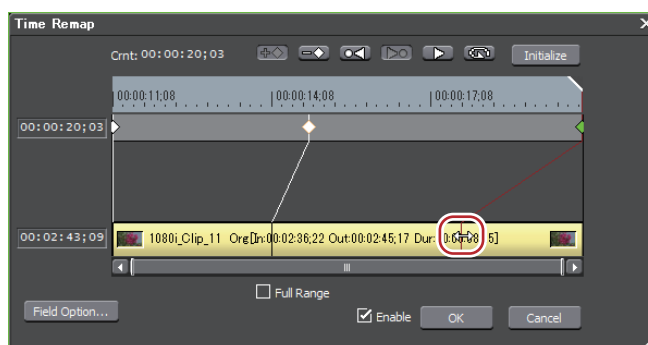
Alternative

- Right-click the [Time Remap] dialog box and click [Add Key] to add a key to the position of the timeline cursor.
- Right-click the [Time Remap] dialog box and click [Delete Key] to delete the key from the position of the timeline cursor.

4 Move the mouse cursor over the key, and drag to the left or right.



The frame of the clip also can be dragged to the left or right.




 **Alternative**

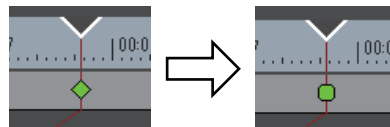
- Moving the timeline cursor to the top frame of the clip: [Home]
- Moving the timeline cursor to the last frame of the clip: [End]
- Moving the timeline cursor to the previous frame: [←]
- Moving the timeline cursor to the next frame: [→]
- Moving key/frame to 1 frame before: [,] (This is enabled when the key setting field or a clip is focused, and the timeline cursor is moved to the key or the frame.)
- Moving key/frame to 1 frame behind: [.] (This is enabled when the key setting field or a clip is focused, and the timeline cursor is moved to the key or the frame.)
- Focusing on the key setting field: [↑]
- Focusing on the clip: [↓]

5 Click [Playback] or [Loop Playback] to check the video.



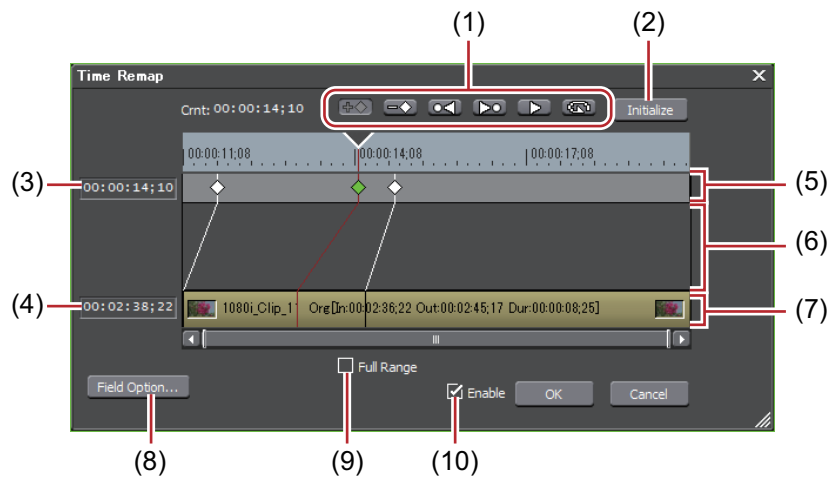
The video is displayed on the Recorder.

-  When you right-click the [Time Remap] dialog box and click [Information] to uncheck, the thumbnail displayed at the top and end of the clip, and the timecode can be set to hidden.
- When you right-click the [Time Remap] dialog box and click [Timeline Time] to uncheck, the top frame of the clip can be changed to “00:00:00;00”.
- When you right-click the [Time Remap] dialog box and click [Original Source Time] to uncheck, the timecode that takes the In point of the clip as “00:00:00;00” is displayed.
- Even clips with no key added are set with one key each at the beginning and end.
- As the default time remap setting, the speed of set keys onward is changed smoothly. If you want to maintain a fixed playback speed in a certain range, set the key to that range, right-click the key on the In point side, and click [Linear]. The key changes shape from diamond-shaped to square.



If you right-click a key set with linear change and click [Speed], a dialog box for entering the playback speed appears.

[Time Remap] Dialog Box




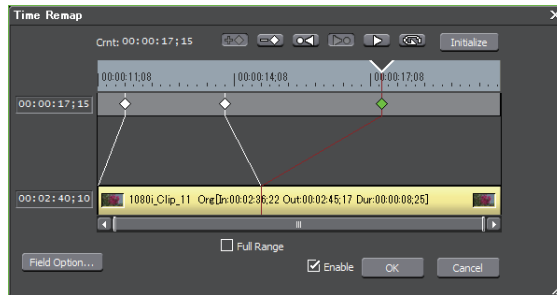
(1)	Key frame edit buttons	<p>: Add a key at the position of the timeline cursor. [Insert], [V]</p> <p>: Delete a key from the position of the timeline cursor. [Delete]</p> <p>: Move the timeline cursor to the previous key. [Page up], [A], [Ctrl] + [←]</p> <p>: Move the timeline cursor to the next key. [Page down], [S], [Ctrl] + [→]</p> <p>: Play the video from the position of the timeline cursor to the end of the clip. When this button is clicked during playback, playback pauses.</p> <p>: Repeatedly play the clip. When this button is clicked during playback, playback pauses.</p>
(2)	[Initialize]	Click [Initialize] and click [Yes] to delete all added keys and restore the defaults.
(3)	Timecode (Timeline)	Directly enter the value to specify which place on the timecode of the timeline the key at the timeline cursor position is to be placed. The timecode is displayed when the timeline cursor is moved to the key.
(4)	Timecode (Clip)	Directly enter the value to specify which place on the timecode of the clip the key at the timeline cursor position is to be placed.
(5)	Key setting field	This space is used for setting the key. A green line is displayed at parts where the speed has not been changed.
(6)	Time difference display area	This space displays the values of the time difference that occurs when keys are added as a connected line.
(7)	Clips	Display the line connecting the key and the corresponding frame on a position on the clip.
(8)	[Field Option]	The [Field Option] dialog box appears. [Field Option] Dialog Box ▶ P253
(9)	[Full Range]	Display all margin sections of the clip. Checking this item when trimming or a cut operation has been performed after setting the time remap can display the keys of the cut section.
(10)	[Enable]	Switch the enable/disable setting for the time remap setting. Uncheck this item to disable the setting.

One Frame at a Time Playback (Freeze Frame)

Stop and play back the In or Out points of the clip. Clips can be stopped for not just the length of the clip but also the first half or second half from a desired frame.

Note

- Freeze frame can be set to video clips on the timeline.
- The freeze frame setting is deleted when a clip set with a freeze frame is added from the timeline to the bin.
-  • Any desired range of clips can also be frozen by time remap. Add keys to determine the range to freeze, and move to the position to stop the 2 key frames on the clip side.



- 1 Right-click a clip, and click [Time Effect] → [Freeze Frame] → [Setup].

Alternative

- Click [Clip] on the menu bar, and click [Time Effect] → [Freeze Frame] → [Setup].

- 2 Check [Enable freeze frame] in the [Freeze Frame] dialog box.

When freeze frame has been set enabled for certain clips, [Setup] items in the menu are checked.

- 3 Select the fix position, and click [OK].

When the In point is selected, the frame of the In point is freeze-framed for the length of the clip, and when the Out point is selected, the frame of the Out point is freeze-framed for the length of the clip.



- When a clip set with freeze frame enabled is trimmed, operation changes as follows depending on the fix position.
 - When the In point side of a clip with a fixed In point is trimmed, the displayed frame also moves matched to the trimming. Operation is not affected when the Out point side has been trimmed.
 - When the Out point side of a clip with a fixed Out point is trimmed, the displayed frame also moves matched to the trimming. Operation is not affected when the In point side has been trimmed.

Freeze-framing the First Half or Second Half from a Desired Frame

- 1 Move the timeline cursor to the frame to freeze.

- 2 Right-click a clip, and click [Time Effect] → [Freeze Frame] → [Before Cursor] or [After Cursor].

The selected clip is cut at the timeline cursor position, and freeze frame is set to clips before or after the cursor. When freeze frame has been set after a cursor, the fix position becomes the In point, and when freeze frame has been set before a cursor, the fix position becomes the Out point.



Alternative

- Click [Clip] on the menu bar, and click [Time Effect] → [Freeze Frame] → [Before Cursor] or [After Cursor].



Note

- Freeze frame cannot be set when the timeline cursor is located at a transition between clips.

Field Options

You can set processing options for reducing flicker, for example, when slow motion has been set.

1 Select a clip.

Multiple clips can be selected and set in a single operation.

2 Click [Clip] on the menu bar, and click [Time Effect] → [Field Option].

The [Field Option] dialog box appears.

[Field Option] Dialog Box ▶ P253



Alternative

- Right-click a clip and click [Time Effect] → [Field Option].

3 Set each item and click [OK].**[Field Option] Dialog Box**

[Processing Option]	Set the processing option to reduce flicker during slow motion. Set [Deinterlace when speed is below 100%] when video is affected by the scanning line and flickers when a slower playback speed has been set.
[Use nearest neighbor]	Check this item to interpolate the length of the clip by continuously displaying the same frame.

Video Layout

Transforming/Rotating Video

The layouter can be used to divide the screen, and video images can be placed or rotated in each screen, or keys can be set to each screen and assigned functions.



- The layout of text objects in title clips also can be set.

Layout Settings ► P385

- In projects having a video quantization bitrate of 10 bits, layouts are processed with 10-bit precision retained.

Editing Layouts

1 Select a clip containing a video part, and double-click [Layouter] in the [Information] palette.

Showing/Hiding [Information] Palette ► P353

The [Layouter] dialog box appears.

[Layouter] Dialog Box ► P255



Alternative

- Click [Clip] on the menu bar, and click [Layouter].
- Right-click the video part of the V/VA clip on the timeline, and click [Layouter].
- Starting up layouter: [F7]



- You can resize the [Layouter] dialog box by moving the cursor to a corner or an edge of the dialog box and dragging the mouse when the cursor shape changes. You can also click [Maximize] to maximize the window size.
- The display area can be adjusted by moving the cursor to the bottom of the preview or parameter and dragging when the mouse cursor changes shape.
- When the mouse is right-clicked in the crop view or transform preview, the menu appears, and you can select tools or switch tabs.
- When the preview or anchor is dragged while [Shift] on the keyboard held down in the crop preview or transform preview, it can be moved limiting to X or Y axis.

2 Edit the layout.

[Crop] tab ► P256

[Transform] tab ► P256

[Parameter] tab ► P257



Note

- When the 2D mode has been switched to the 3D mode during editing, editing details are carried over to the 3D mode. When the 3D mode has been switched to the 2D mode, the parameter values of items that cannot be edited in the 2D mode are discarded.

3 Click [OK].

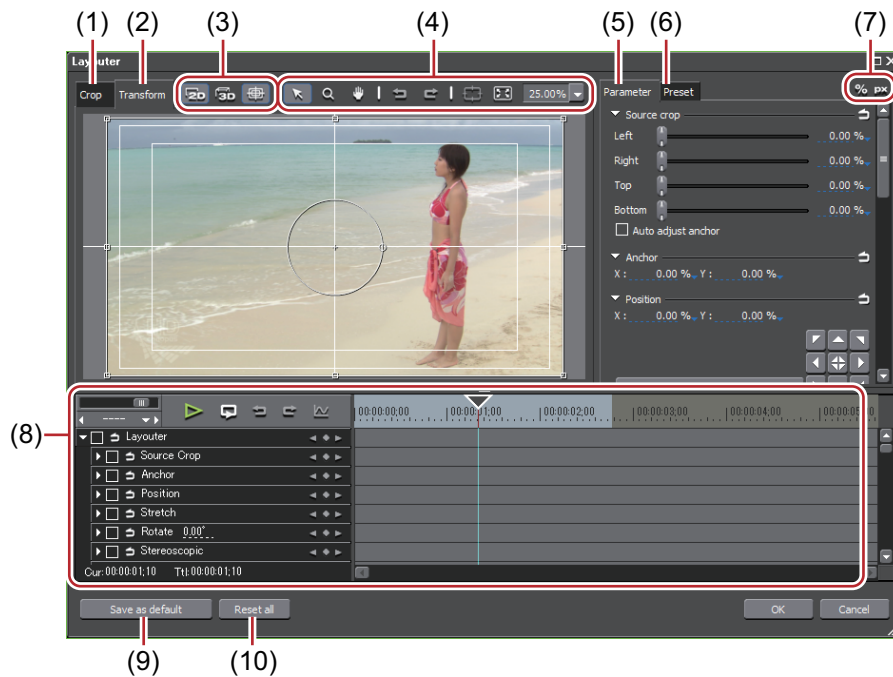
An orange line is displayed on clips set with the layouter.














- When the layouter has been edited, its settings can be registered to the [Effect] palette as original effects (user preset effects). Effects registered like this can be exported and imported to EDIUS on other PCs.

Registering Effects to [Effect] Palette ► P361

[Layouter] Dialog Box

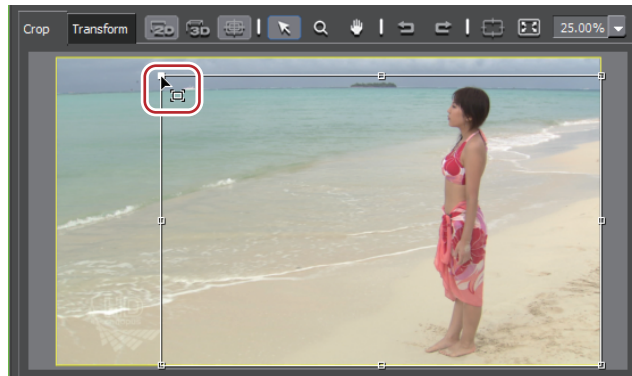


(1)	[Crop] tab	Display the crop preview. The preview can also be edited intuitively by mouse operation inside the preview.
(2)	[Transform] tab	Display the layout preview. The preview can also be edited intuitively by mouse operation inside the preview.
(3)	Mode button	<p>: Switch to 2D mode. Video can be moved or rotated on two dimensions.</p> <p>: Switch to 3D mode. Video can be moved or rotated on three dimensions.</p> <p>: Switch the show/hide setting for centerlines or safe areas.</p>
(4)	Tool buttons	<p>: Drag the mouse to move or perform handle operations on screens.</p> <p>: Drag the mouse to expand or contract screens. From the drag start point, drag to the right to expand screens, and drag to the left to contract.</p> <p>: Drag the mouse to move the display area.</p> <p>: Undo an operation. [Ctrl] + [Z]</p> <p>: Redo the undone operation. [Ctrl] + [Y]</p> <p>: Center the display range after moving by the pan tool.</p> <p>: Fit the expanded/contracted display to the display range of the preview screen.</p> <p>: Directly enter a numerical value or select from the list to set the display ratio.</p>
(5)	[Parameter] tab	Edit crops and transforms.

(6)	[Preset] tab	Save edited layouts and apply them to other clips. <i>Saving Editing Details as Presets</i> ▶ P259
(7)	Switch display	% : Switch parameters to % display (% display compatible items only). px : Switch parameters to pixel display (pixel display compatible items only).
(8)	Key frame timeline	Set the key frame to apply change to crops and transforms. The length of the timeline is the duration of the clip currently being edited. <i>Setting Key Frames</i> ▶ P260
(9)	[Save as default]	Click this item to save the current settings as defaults. When a clip is placed on the timeline, the default layout is always applied.
(10)	[Reset all]	Click this button to return the layout settings to their defaults. To return the layout to the settings before they were changed, apply [Default] in the preset.

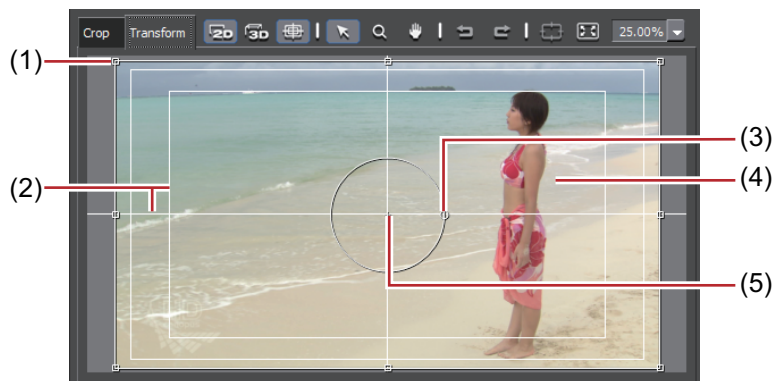
[Crop] tab

Specify the display range by moving the cursor to an operation handle at the four corners or the center of a side and dragging.




[Transform] tab

Reflect edited parameter details in the preview. You can also edit parameters by dragging handles inside the preview.



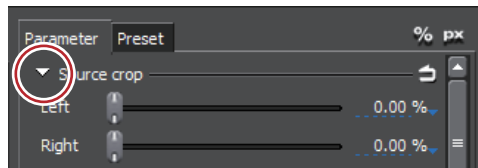
(1)	Stretch handles	Move the cursor to the operation handles at the corners and at the middle of the lines to resize the area.
(2)	Guide	Display the underscan, overscan, title safe, and horizontal/vertical centerlines. You can switch the show/hide setting by clicking [Guide].
(3)	Rotation handle	Move the cursor and drag the rotation handle to rotate the image. In the 3D mode, green, red and blue indicate rotation around the Y, X and Z axes, respectively. With rotation on the preview screen, the X/Y/Z axes are the values for video, and with rotation by direct entry of numerical values to parameters, the X/Y/Z axes are the values for the display.

(4)	Preview	<p>Display the results of editing parameters. The display position can be changed by dragging the preview. In the 3D mode, the display position can be moved in three dimensions in each of the X, Y and Z axis directions by dragging the arrow.</p> 
(5)	Anchor	<p>Display the reference point of video. This point is a reference point for the rotation center and for stretching. Drag with [Ctrl] on the keyboard held down to change the position.</p>

[Parameter] tab

Enter numerical values or edit using the sliders or controls.

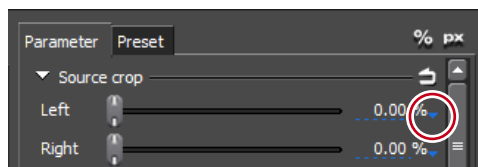
You can switch the show/hide setting for the sliders and controls by clicking the expand button on each editing menu.



Click [Set default parameters] to set the layout where settings in edit menus are saved as defaults.





Also, the display unit can be switched by clicking when a blue triangle mark is displayed in the respective value input field.



When the preview screen is edited, the editing details are reflected in parameters.

[Source crop]	<p>Specify the crop range. In the % display, enter the crop ratio for each of the top/bottom/left/right parts with the width and height of the original clip as 100%. In the pixel display, enter the number of pixels to clip. This can also be edited by dragging the slider to the left and right.</p> <p>[Auto adjust anchor] Check this item to change the anchor position according to the crop amount. When this item is unchecked, the anchor does not move even if the crop values are changed.</p>
[Anchor]	<p>Set the reference position of the video. Set the anchor position by entering X and Y (in the 3D mode, X, Y and Z) with the origin at the center of the source video before it is cropped.</p>

<p>[Position]</p>	<p>Set the layout position of the video after cropping by directly entering a numerical value or by moving to the safe area.</p> <p>X, Y/X, Y, Z</p> <p>Set where the anchor is to be placed by entering X and Y (in the 3D mode, X, Y and Z) with the origin at the center of the frame.</p> <p>Area selection</p> <p>Select the area to be fitted to with the fit position buttons from the list.</p> <p>Fit position buttons</p> <p>Move the anchor to the upper left, upper edge, upper right, left edge, center, right edge, lower left, lower edge, and lower right of the cropped display area, and place video aligned to the respective position of the guide selected at area selection.</p> <p>During editing in the 3D mode, when the Z value has been changed by the position setting, video is placed at the position of the guide corresponding to depth.</p>
<p>[Stretch]</p>	<p>Set the scale of the video after cropping by entering a numerical value or clicking the fit button.</p> <p>X, Y</p> <p>Enter the scale with the size of the video after cropping as 100%.</p> <p>Stretch fit button</p> <p>Expand/contract video after cropping to fit the height or width of the screen.</p> <p></p> <p>When  is clicked, video becomes the maximum size in which the entire video image can be displayed.</p> <p>[Preserve frame aspect]</p> <p>Check this item to expand/contract video with the aspect ratio of the original image maintained.</p> <p>[Ignore pixel aspect]</p> <p>Perform pixel mapping at actual size with no relation to the pixel aspect ratio.</p> <p>[Resampling method]</p> <p>Select the resampling mode when video is transformed for a clip currently being edited.</p>
<p>[Rotate]</p>	<p>Rotate the video after cropping.</p> <p>The angle can be rotated by entering a numerical value or moving the cursor to a control and dragging when the mouse cursor changes shape.</p>
<p>[Perspective]</p>	<p>Set perspective by entering a numerical value or dragging the slider to the left and right.</p> <p>In the 2D mode, [Perspective] is not displayed.</p>
<p>[Stereoscopic]</p>	<p>Displayed only in the stereoscopic edit mode.</p> <p>[Lens separation]</p> <p>Set the distance between the cameras on the L and R sides. The distance is a relative value with the height of the frame as 100%.</p> <p>[Zero parallax]</p> <p>Set the distance from the close plane to the plane free from parallax.</p>
<p>[Opacity and color]</p>	<p>Enter the opaque ratios for the source and its background, respectively. 0% is transparent and 100% is opaque.</p> <p>This can also be edited by dragging the slider to the left and right.</p> <p>[Color of background]</p> <p>Set the the background color. Click the color box to open the [Color Select] dialog box.</p> <p>[Color Select] Dialog Box ▶ P193</p>

[Edge]	<p>Attach a frame to video after cropping.</p> <p>[Color] Check this item to enable the color edge. Enter the edge width in pixels. This can also be edited by dragging the slider to the left and right. Click Color box to specify the edge color. <i>[Color Select] Dialog Box ▶ P193</i></p> <p>[Soft] Check this item to apply blur to the edge. Enter a blur width in pixels. This can also be edited by dragging the slider to the left and right.</p> <p>[Round corner] Check this item to round the corners of edges.</p> <p>[Side] Select from the outside, inside or both sides of edges to apply [Color]/[Soft] to.</p>
[Drop shadow]	<p>When [Enable drop shadow] is checked, a drop shadow can be attached to video after cropping. Enter numerical values for [Distance] or [Opacity] and [Soften]. This can also be edited by dragging the slider to the left and right. The drop shadow direction can be set by entering an angle at [Angle] or moving the cursor to a control and dragging when the mouse cursor changes shape. Click Color box to specify the drop shadow color. <i>[Color Select] Dialog Box ▶ P193</i></p>

Saving Editing Details as Presets

1 Select a clip, start up layouter, and edit the layout.

2 Click the **[Preset]** tab.

[Preset] Tab ▶ P260

3 Click **[New]**, and click **[Yes]**.

4 Enter a preset name and comment, and click **[OK]**.

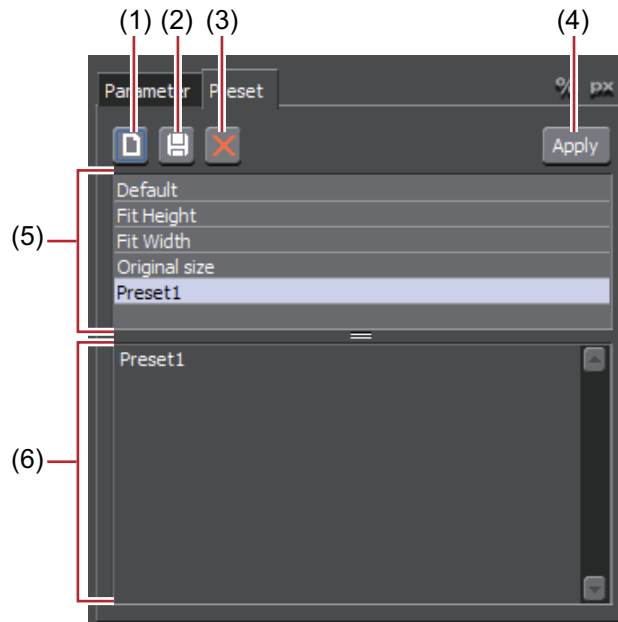


- When the layouter has been edited, its settings can be registered to the **[Effect]** palette as original effects (user preset effects). Effects registered like this can be exported and imported to EDIUS on other PCs.

Registering Effects to [Effect] Palette ▶ P361

- When a preset is selected in the preset list, and **[Save]** is clicked, select whether to overwrite save comment edits or editing details or save them as a new preset. To overwrite save, click **[OK]** without renaming the preset, and click **[Yes]**.

[Preset] Tab



(1)	[New]	Save the current editing details as a new preset.
(2)	[Save]	Save the current editing details.
(3)	[Delete]	Delete the currently selected preset.
(4)	[Apply]	Select and apply the preset.
(5)	Preset list	Displays currently saved presets in a list.
(6)	Comment	Display the comment of the currently selected preset.

Applying Presets and Editing Layouts

1 Select a clip, and start up layouter.

2 Click the [Preset] tab.

[Preset] Tab ▶ P260

3 Select a preset, and click [Apply].

Alternative

- In the preset list, double-click the preset to apply.

4 Click [OK].

An orange line is displayed on clips set with the layouter.

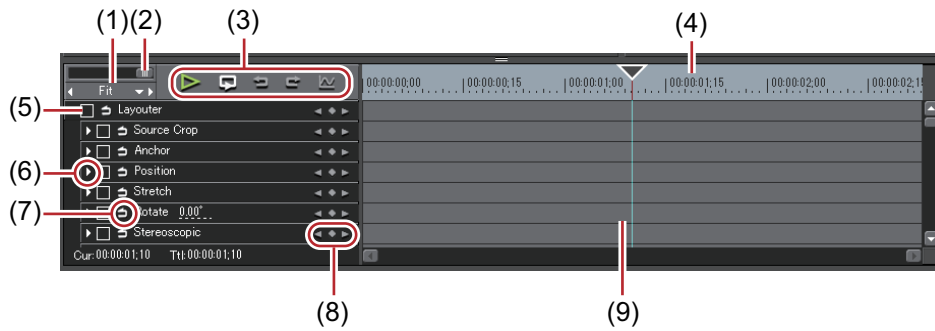
Changing Layouts along the Time Axis

Setting Key Frames

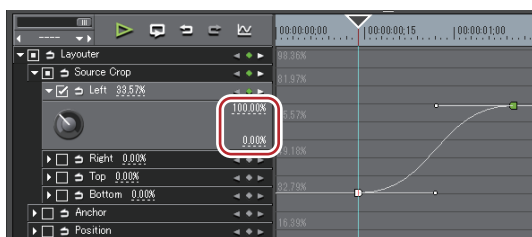
When a key frame is set, you can change the layout along the timeline.


1 Select a clip, and start up layouter.

Set the key frame on the timeline in layouter.



(1)	Timeline controller	Drag the slider to the left and right to adjust the time scale display unit. Move the slider to the left to reduce the display unit, or to the right to increase it. The right end is [Fit].
(2)	Time scale settings	Click this to toggle the specified display unit and [Fit]. Click the left arrow to reduce the display unit, or click the right arrow to increase the display unit.
(3)	Playback/Tool buttons	: Play back the timeline on the Recorder.
		: Repeatedly play back the clip currently being edited.
		: Undo an operation. [Ctrl] + [Z]
		: Redo the undone operation. [Ctrl] + [Y]
		: Switch the changes of each parameter to the chart view. In the chart view, the timeline is represented by a chart display of the selected key. The parameters can be edited by moving the keys up and down. The numerical values and gradations of the Y axis can be changed by entering numerical values.
(4)	Time scale for key frame	Display a scale with the unit selected in the time scale setting on the timeline. Right-click the time scale and click [Timeline Timecode] to display the timecode of the timeline or click [Zero base Timecode] to display the timecode with the beginning of the clip as 0. If a sequence marker is set for the position where the clip is placed, right-click the time scale and click [Go to Previous Sequence Marker] or [Go To Next Sequence marker] to move the timeline cursor to the previous or next sequence marker.
(5)	Enable/Disable	Unchecking the item disables the parameter settings. To set a key frame, check [Layouter].
(6)	Expand button	Click this button to configure detailed settings for each item. The layout can be edited by entering a numerical value or moving the mouse to a control and dragging when the mouse cursor changes shape.



(7)	[Add default key]	Click this item to set the key frame of the items for each parameter in the layout (in an unchanged state) set as the [Default] in the preset at the timeline cursor position.
(8)	Key frame setting	Click  in the center to set a key frame on the position of the timeline cursor. When the timeline cursor is located over the key frame, the key frame will be deleted. Click the left and right arrow to move to the previous and next key frame.
(9)	Key frame timeline	When a layout is edited at the timeline cursor position, a key frame is automatically added. Also, when parameter items are expanded, parameters can be edited by dragging the key frame up or down.

2 Check [Layouter] items.

Key frame settings are enabled.

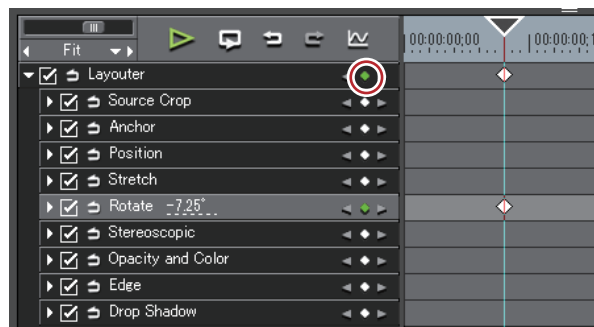


3 On the timeline for the key frame, move the timeline cursor to the position to which the initial key frame is set.

The timeline cursor is displayed by clicking the time scale.

4 Edit the layout.

A key frame is automatically added. If it is not added, click [Add Key / Delete] in the key frame settings.



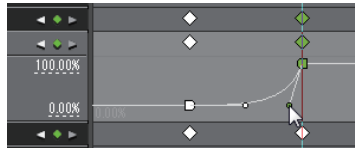
5 Move the timeline cursor to the position to add the next key frame, and edit the layout.

A key frame is automatically added. Repeat step 5 if necessary.



- Key frames can be set without moving the timeline cursor by right-clicking the position to set the key to and clicking [Add].
- When the timeline is right-clicked and [Default] is clicked, the key frame is set to the right-clicked position on the layout currently set to [Default] in the preset (i.e. without any changes made to the layout).
- To delete a key frame, right-click the key frame and click [Delete].
- When the item name of a parameter is right-clicked and [Clear parameter of (item)] is clicked, all key frames for that item are deleted.
- Parameter items can be expanded, and copy, paste and other edit operations can be performed by right-clicking on the key frame.
- Parameter items can be expanded, and the method of interpolation can be changed by right-clicking the key frame. Select from [Hold] (fix layout up to next key frame), [Line] (change intuitively) and [Bezier] (change smoothly). The key changes shape when the interpolation method is changed.

- Parameter items can be expanded, and the parameters of the key frame can be edited by setting to chart display. The interpolation curve can also be edited by dragging handles when the interpolation method is [Bezier].



- All set keys can be selected by right-clicking the timeline and clicking [Select All].
- Key frames can be added to the position of the timeline cursor by double-clicking the preview.
- When [Shift] + [V] on the keyboard are pressed, a key frame is added to all parameters with a valid key frame setting at the timeline cursor position.
- When [V] on the keyboard is pressed, a key frame is added to the currently selected parameter at the timeline cursor position.

6 Click [OK].

An orange line is displayed on clips set with the layouter.

Trimming Clips

About the Trim Mode

You can switch to the trim mode to perform editing to fine-adjust video in 1 frame units or 10 frame units by button operation. Trimming is also possible in the standard mode by dragging the mouse.

Switching to the Trim Mode


1 Click [Mode] on the menu bar, and click [Trimming Mode].

The preview window switches from the standard mode to the trim mode.



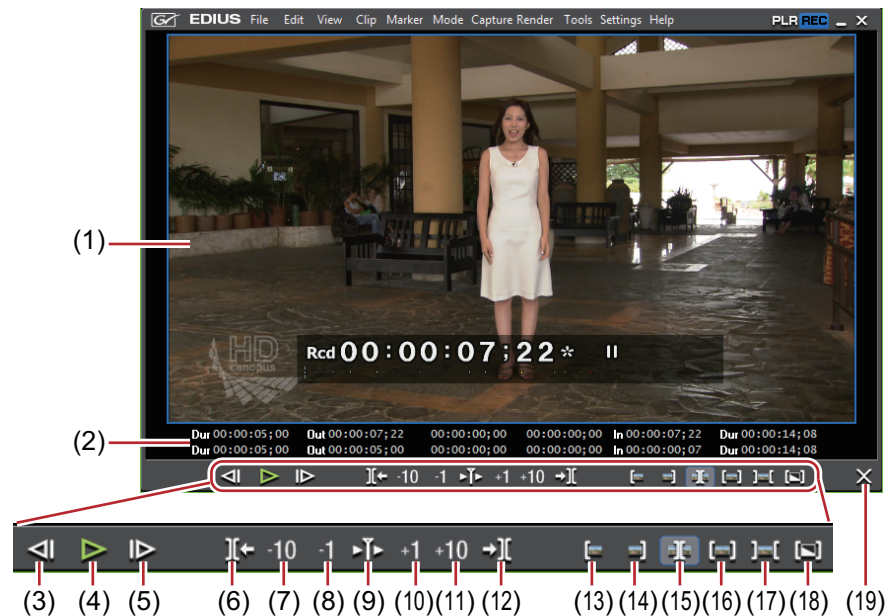
The current trimming type is displayed on the status bar of the timeline window.

Alternative

- Double-click the In or Out point of the clip.
 - Switching to the trim mode: [F6]
-  • The trim mode can be switched to the standard mode by the following operation.
- Click [Mode] on the menu bar, and click [Normal Mode].
 - Click [x] on the lower right of the trim mode screen.
 - Press [F6] on the keyboard again.
 - Switching to standard mode: [F5]

About the Trim Window

Buttons exclusively for trimming and the preview are displayed in this window. When the trim mode button is clicked, the cut point corresponding to the trim mode is automatically selected. Trimming can also be performed more accurately by entering numerical values to the timecode for trimming.



(1)	Preview window	Switch the display to 1/2/4 screens depending on the trimming operation.
(2)	Timecode	Display the timecode of the In or Out point of the clip to edit. You can also change the trimming position by directly entering a numerical value.
(3)	[1 Frame Back]	Move to the previous frame. [←]
(4)	[Play]	Play the timeline in the forward direction. When this button is clicked during playback, playback pauses. [Enter]
(5)	[Next Frame]	Move to the next frame. [→]
(6)	[Move to Previous Edit Point (Trim)]	Move the focus and timeline cursor to the edit point (cut point) on the left of the current cut point position. When a cut point has not been selected, the focus and timeline cursor move to the edit point of the selected tracks on the left of the timeline cursor position. [Page up]
(7)	[Trim (-10 frames)]	Adjust the trimming position in -10-frame units. [Shift] + [,]
(8)	[Trim (-1 frame)]	Adjust the trimming position in -1-frame units. [,]
(9)	[Play the Event Area]	Repeatedly play back the area around the focused cut point. Click it again to stop. [/]
(10)	[Trim (1 frame)]	Adjust the trimming position in +1-frame units. [.]
(11)	[Trim (10 frames)]	Adjust the trimming position in +10-frame units. [Shift] + [.]

(12)	[Move to Next Edit Point (Trim)]	Move the focus and timeline cursor to the edit point (cut point) on the right of the current cut point position. When a cut point has not been selected, the focus and timeline cursor move to the edit point of the selected tracks on the right of the timeline cursor position. [Page down]
(13)	[Trim Mode (In Point)]	Switch to the trim mode (In point). Only the In point can be selected.
(14)	[Trim Mode (Out Point)]	Switch to the trim mode (Out point). Only the Out point can be selected.
(15)	[Trim Mode (Slide)]	Switch to the trim mode (slide). Only the cut point of the slide trim can be selected.
(16)	[Trim Mode (Slip)]	Switch to the trim mode (slip). Only the cut point of the slip trim can be selected.
(17)	[Trim Mode (Roll)]	Switch to the trim mode (rolling). Only the cut point of the rolling trim can be selected.
(18)	[Trim Mode (Transition)]	Switch to the trim mode (transition). Only the transition (clip transition, track transition)/audio cross fades can be selected.
(19)	[Switch to Normal Mode]	Switch the trim mode to the standard mode. [F5]

* Sometimes there are no cut points that can be moved to on the selected tracks, or the cut point is sometimes disabled depending on the operation button.

Entry of Values ▶ P33

Trimming Type

The following explains the features of each trimming type. For details on methods of operation, see the respective page.

Trimming on the Timeline ▶ P270

Trimming on the Preview Window ▶ P272

Trimming by Entering the Timecode ▶ P273

Trimming by Shortcut Keys ▶ P274

In point trim/Out point trim

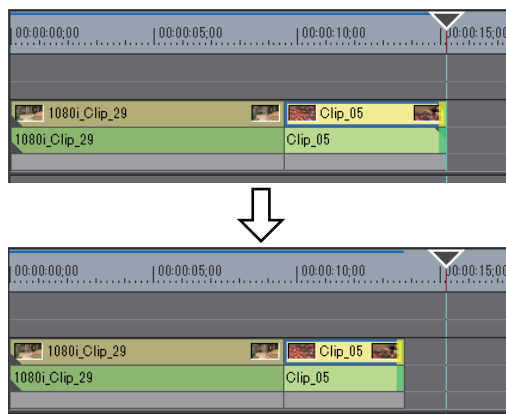
Change the In and Out points of clips placed on the timeline.

The edit result is dependent on the edit mode.

Switching the Editing Mode ▶ P219

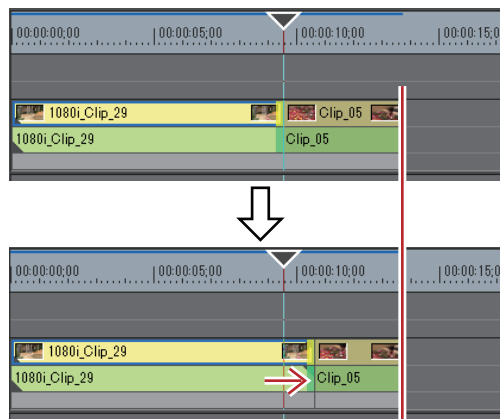
Example:

When the Out point side of the clip has been trimmed by a shortcut key (rippled mode off)



In the Overwrite Mode

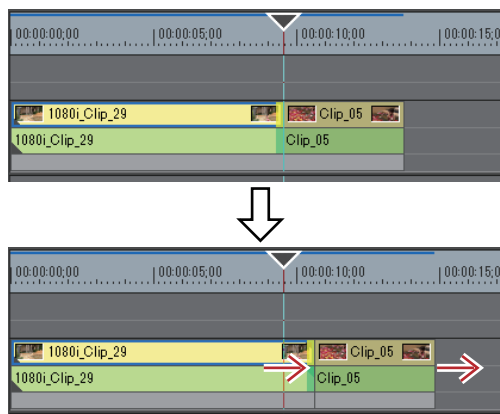
If you extend a clip, the subsequent clips shorten. The total length remains unchanged.



- Even if the ripple mode is off or the overwrite mode is set, neighboring clips can be fixed to prevent subsequent clips from being overwritten by mistake during trimming.
[Timeline] ► P90

In the Insert Mode

If you extend a clip, the subsequent clips are shifted backward.



- You can move a clip together with all the subsequent clips.
Moving a Selected Clip and Subsequent Clips ► P236
- You can trim the Out point of the clip by the following operation.
 - Select and right-click a clip, and click [Duration]. In the [Duration] dialog box, enter the playback time from the In point.
 - Select the clip and press [Alt] + [U] on the keyboard. In the [Duration] dialog box, enter the playback time from the In point.

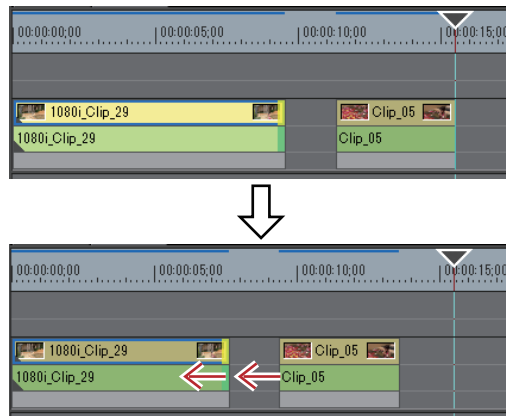
Ripple Trim

Change the In and Out points with the positional relationship with other clips maintained. Trimming is performed with the ripple mode on. Even if the ripple mode is off, ripple trimming is possible by using combinations of shortcut keys and keyboard operation.

Ripple Mode ► P220

Example:

When trimming the Out point side of the clip



Split Trim

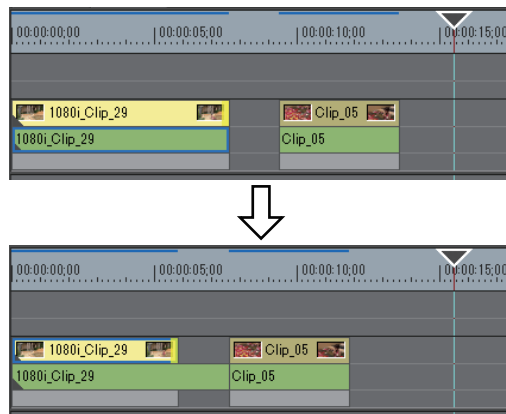
You can trim only the video section or audio section of video clips with audio.



- When the ripple mode is on, you cannot perform trimming if there is no gap between the trimming clip and the subsequent clip. Also, trimming can be performed by the length of the gap if the gap is shorter than the trimming clip.

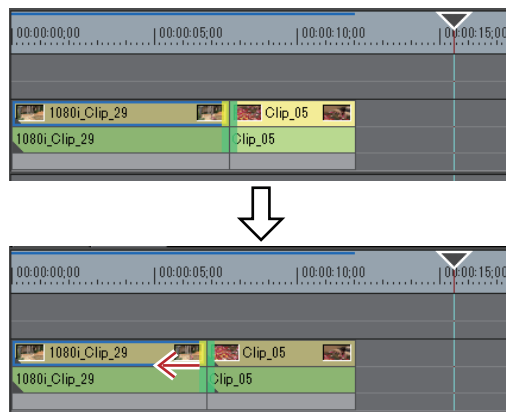
Example:

When trimming the Out point side of a video clip with audio (video part)



Slide Trim

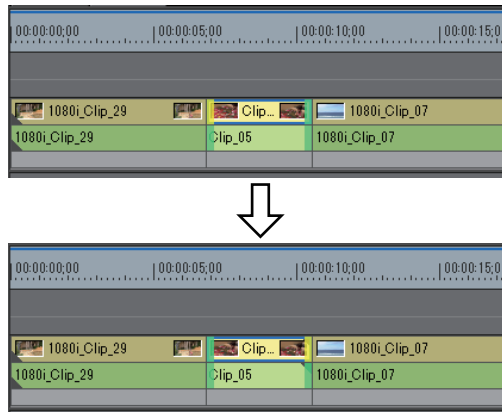
Shift the start and end points of the neighboring clips forward and backward. The total length of the previous and subsequent clips remains unchanged.



- You cannot perform trimming if there is no margin between the trimming clip and the adjacent clips. When trimming clips with margins, trimming can be performed by the length of the margin of the clip.

Slip Trim

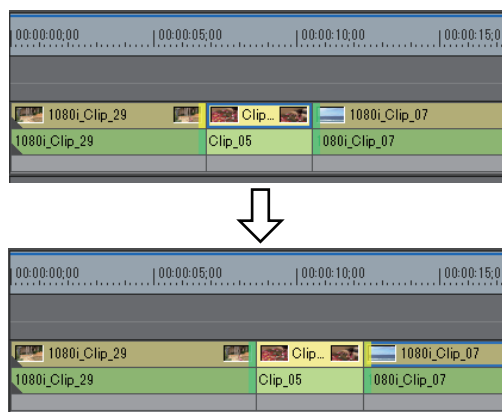
You can change the area of the clip to use, without changing the length or position of the clip. The length or position of the neighboring clips remain unchanged.



- You cannot perform trimming if the trimming clip has no margin. When trimming clips with margins, trimming can be performed by the length of the margin of the clip.

Rolling Trim

Shift the start and end points of the previous and subsequent clips without changing the length of specific clips.



Adjust the range to be used while checking the video displayed on the preview window.

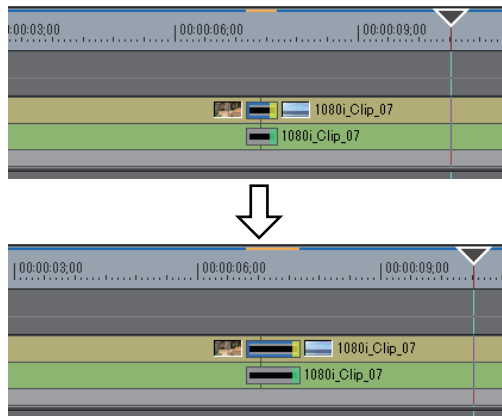
- You cannot perform trimming if the neighboring clip has no margin. When trimming clips with margins, trimming can be performed by the length of the margin of the clip.

Trimming Transitions/Audio Cross Fades

You can trim the length of transitions (clip transitions, track transitions)/audio cross fades in the same way as clips.

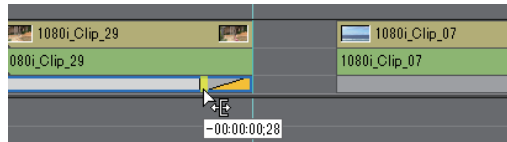
Example:

When trimming the Out point of a clip transition:

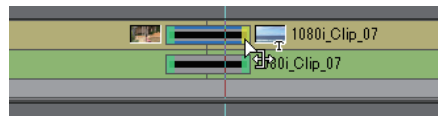


Example:

Track transition



Both edges of a transition/audio cross fades can also be trimmed at the same time.



- You can change the length of the title mixer by dragging in the same way as for the clips.
- You can extend the clip transition/audio cross fades by the margin of the clip.
- You can change the default duration value.

Changing Duration of Effect ▶ P341

Trimming Operation Methods

Trimming on the Timeline

You can perform trimming while still in the standard mode by selecting and dragging a cut point. The edit result of trimming is dependent on the edit mode.

Switching the Editing Mode ▶ P219

The trimming type changes according to how the In and Out points are selected and keyboard combinations.

For details on respective trimming methods, see the respective page.

In point trim/Out point trim ▶ P266

Ripple Trim ▶ P267

Split Trim ▶ P268

Slide Trim ▶ P268

Slip Trim ▶ P269


Rolling Trim ▶ P269

1 Select the cut point of the trimming clip.

The cut point for each trimming type is selected as follows:



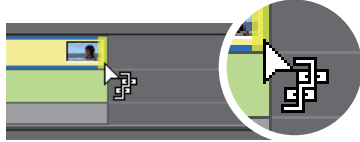
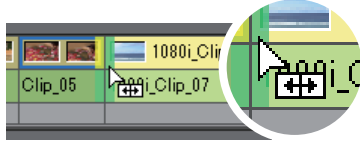
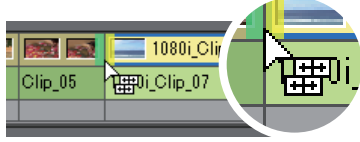
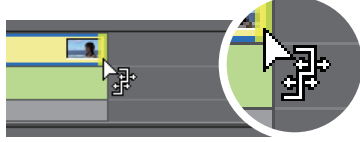
In point trim	Click the In point of the clip.
Out point trim	Click the Out point of the clip.
Ripple trim	Click [Shift] + In point or Out point.

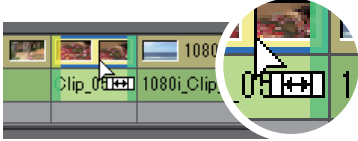


Ripple trim (split)	Click [Alt] + [Shift] + In point or Out point.
Slide trim	Click [Ctrl] + [Shift] + In point or Out point.
Slide trim (split)	Click [Ctrl] + [Alt] + [Shift] + In point or Out point.
Split trim	Click [Alt] + In point or Out point.
Slip trim	Click [Ctrl] + [Alt] + center of the clip.
Rolling trim	Click [Ctrl] + [Shift] + center of the clip.
Transition trim	Click the In or Out point of transition (clip transition, track transition)/audio cross fades.
Transition trim (both edges)	Click [Shift] + clip transition/audio cross fade.

 • Ripple trimming is also possible with the ripple mode off.

2 Move the mouse cursor to the cut point or clip, and drag to the left and right when the mouse cursor changes shape.

Adjust the range to be used while checking the video displayed on the preview window.
The mouse cursor changes shape according to the trim mode.

In point trim/Out point trim	
Ripple trim	
Ripple trim (split)	
Slide trim	
Slide trim (split)	
Split trim	

<p>Slip trim</p>	
<p>Rolling trim</p>	
<p>Transition trim Transition trim (both edges)</p>	

Trimming on the Preview Window

You can perform trimming by dragging the mouse on the preview window in the trim mode.

Note

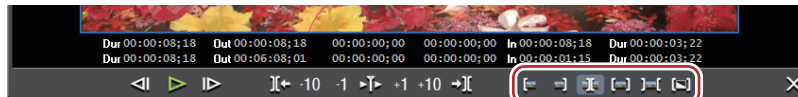
- The trim mode (transition) is not available in the preview window.

1 Click [Mode] on the menu bar, and click [Trimming Mode].

The preview window switches from the standard mode to the trim mode.

2 Select the trimming clip.

3 Click the respective button at [Trimming Mode] in the trim window, and select the cut point.



The cut point changes color to green or yellow, and trimming is enabled.

In point trim/Out point trim ▶ P266

Ripple Trim ▶ P267

Split Trim ▶ P268

Slide Trim ▶ P268

Slip Trim ▶ P269

Rolling Trim ▶ P269

4 Move the mouse cursor to the preview window, and drag to the left and right when the cursor changes shape.

Adjust the range to be used while checking the video displayed on the preview window.

The mouse cursor changes shape according to the trim mode.

In point trim: 

Out point trim: 

Slide trim: 

Slip trim: 

Rolling trim: 

Trimming by Entering the Timecode

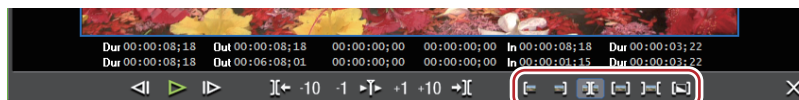
In the trim mode, the sequence timecode and the source timecode are displayed in the preview window, and you can execute trimming by entering numerical values.

1 Click [Mode] on the menu bar, and click [Trimming Mode].

The preview window switches from the standard mode to the trim mode.

2 Select the trimming clip.

3 Click the respective button at [Trimming Mode] in the trim window, and select the cut point.



The cut point changes color to green or yellow, and trimming is enabled.

In point trim/Out point trim ▶ P266

Ripple Trim ▶ P267

Split Trim ▶ P268

Slide Trim ▶ P268

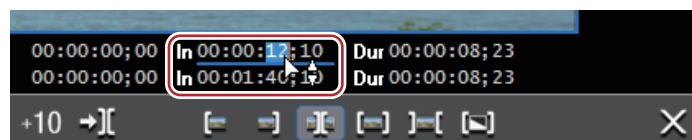
Slip Trim ▶ P269

Rolling Trim ▶ P269

4 Enter the timecode.

Move the mouse cursor to the timecode at the bottom of the trim window, and the mouse cursor changes shape. If you click in this state, a blue line is displayed under the timecode and numerical values can be entered.

Entry of Values ▶ P33

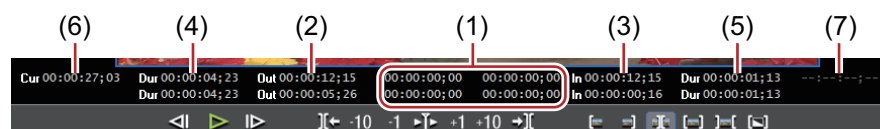


Timecode of Trim Window ▶ P273

5 Press [Enter] on the keyboard.

Adjust the range to be used while checking the video displayed on the preview window.

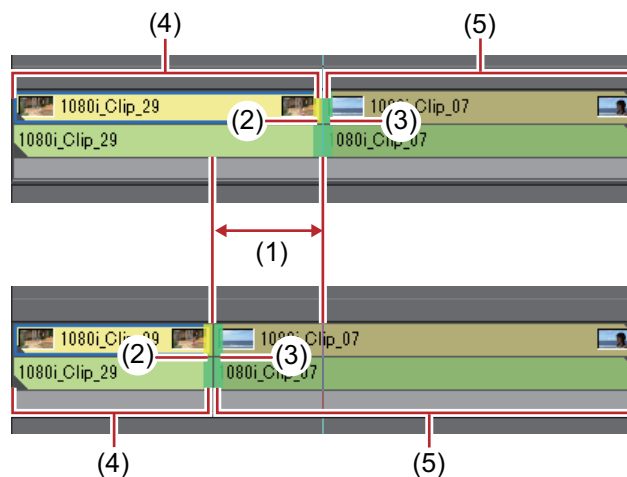
Timecode of Trim Window



The upper level is the timecode of the sequence, and the lower level is the timecode of the source. Numerical values can be entered in either level for trimming.

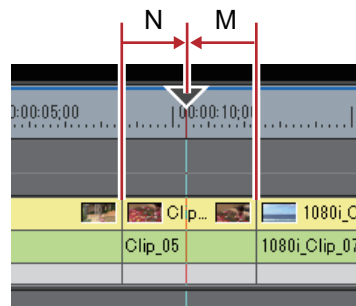
- (1) Number of frames moved from focused cut point
 - (2) Timecode of the focused cut point (Out point of clip)
 - (3) Timecode of the focused cut point (In point of clip)
 - (4) Length of clip to be trimmed (clip on Out point side)
 - (5) Length of clip to be trimmed (clip on In point side)
 - (6) Timecode at timeline cursor
 - (7) Length of transition/audio cross fades to be trimmed
- * The items displayed may differ depending on the size of the preview window.

Example:
Slide trimming



Trimming by Shortcut Keys

The In and Out point sides of the timeline cursor can be trimmed by shortcut keys. You can perform trimming from the In point up the timeline cursor by [N] on the keyboard and from the timeline cursor up to the Out point by [M]. The trimming type changes according to the keyboard combination.



1 Select the clip to be trimmed.


You can also perform trimming on a selected transition (clip transition, track transition) and audio cross fades. To trim a track transition, select the mixer.

2 Move the timeline cursor to the trimming position.

3 Press a key on the keyboard to perform trimming.

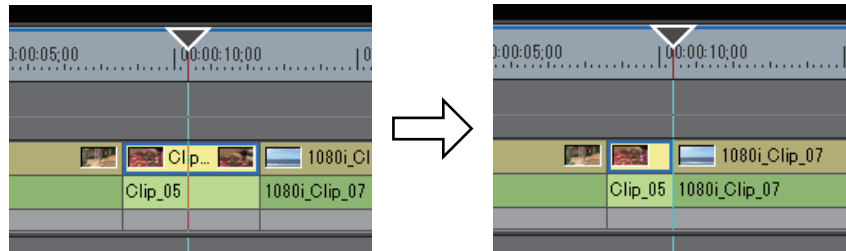
In point trim	[N]
Out point trim	[M]
Ripple trim (In point side)	[Alt] + [N]
Ripple trim (Out point side)	[Alt] + [M]

Slide trim (In point side)	[Ctrl] + [Alt] + [N]
Slide trim (Out point side)	[Ctrl] + [Alt] + [M]
Split trim (In point side)	[Shift] + [N]
Split trim (Out point side)	[Shift] + [M]

 • Ripple trimming is also possible with the ripple mode off.

Example:

When the Out point side of the clip has been trimmed by slide trim ([Ctrl] + [Alt] + [M])



Markers

Setting a Marker to Sources

Displaying the [Clip Marker] List

Display the [Clip Marker] list in the [Marker] palette.

- 1 Click [Toggle Palette Display] of the timeline.




- 2 Click [Marker].

Alternative

- Click [View] on the menu bar, and click [Palette] → [Marker].
- The [Effect], [Information] and [Marker] palettes can be shown/hidden together by clicking [View] on the menu bar and clicking [Show All] or [Hide All].
- Showing/hiding palette: [H]

Showing/Hiding [Effect] Palette ▶ P319

Showing/Hiding [Information] Palette ▶ P353

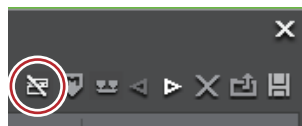
-  • If you switch the show/hide setting for the [Marker] palette, the setting for the bin window, source browser window, and palette tab associated to the [Marker] palette is also switched. To switch the show/hide setting individually, release the association of the window and the palette.

Combining Bin Window/Source Browser Window with a Palette ▶ P117

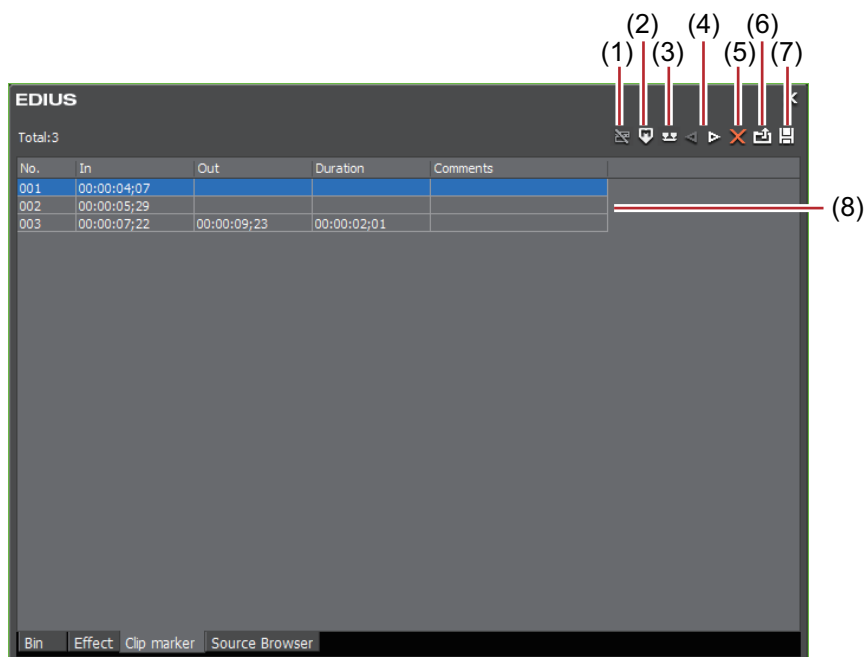
- 3 Click [Toggle Sequence Marker/Clip Marker] in the [Marker] palette.

Each click switches between the [Clip Marker] list and the [Sequence Marker] list.

Displaying the [Sequence Marker] List ▶ P282



[Clip Marker] List



(1)	[Toggle Sequence Marker/Clip Marker]	Switch between the [Clip Marker] list and the [Sequence Marker]list.
(2)	[Set Marker]	Add the clip marker to the position the slider on the Player.
(3)	[Set Mark In/Out]	Add the clip marker with range to between In and Out points of the clip currently displayed on the Player.
(4)	[Go to Previous Marker]/[Go to Next marker]	Move to the previous/next clip marker.
(5)	[Clear Marker]	Select and delete a clip marker from the clip marker list.
(6)	[Import Marker List]	Import a clip marker list.
(7)	[Export Marker List]	Export the clip marker list as a CSV file.
(8)	Clip marker list	Display the timecode or comment of the set clip marker.

Note

- The [Clip Marker] list displays the clip marker information of clips currently displayed on the Player when the focus is on the Player and the clip marker information of clips currently displayed on the timeline when the focus is on the Recorder.

Setting Clip Markers at Capture

You can set markers to source clips while sources are being captured.


1 Start the source capture.

Importing Sources from DV Tape (Capture) ▶ P145

Importing Sources All Together (Batch Capture) ▶ P150

2 At the scene to which the clip marker is to be set, click [Add Mark] in the [Capture] dialog box.

The list of set markers is displayed. Enter a comment, if necessary.

-  Multiple clip markers can be added by shortcut keys by the following operation. At the scene to add the clip marker to, press [V] on the keyboard, and enter the comment as required. To continue to add clip markers in scenes, press [Ctrl] + [M] on the keyboard, and enter the comment as required.

Setting Clip Markers

You can set clip markers to source clips registered to the bin and to the source currently displayed on the Player.

1 Display the source on the Player.

Displaying Clips on the Player ▶ P175

2 Move the slider on the Player to the clip marker setting position.

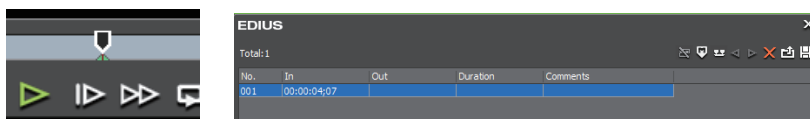
Playing Back with Shuttle/Slider ▶ P174



3 Click [Set Marker] in the [Clip Marker] list.

[Clip Marker] List ▶ P277

The clip marker is displayed for slider on the Player, and the timecode of the clip marker is displayed in the [Clip Marker] list.

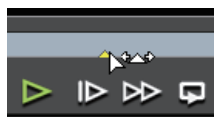


Alternative

- Click [Marker] on the menu bar, and click [Add Mark].
- Right-click the clip marker list, and click [Set Mark].
- Right-click the slider on the Player, and click [Set clip marker/Clear clip marker (Toggle)].
- Setting clip markers: [V]



- You can move marker positions by the following operation.
 - Click the timecode at [In] in the [Clip Marker] list, and enter the desired numerical value.
 - Drag the clip marker on the slider with [Ctrl] on the keyboard held down.



- You can enter comments at the same time you are setting clip markers. Click [Marker] on the menu bar, and click [Edit Mark] to enter the comment.

Entering Comments to Clip Markers ▶ P280

Note

- When the focus is on the Recorder, clip markers cannot be set.
- Additions, deletions and edits made to clip markers are automatically reflected on clips in the bin. To leave behind the information of a clip before it is edited, register that clip to the bin as a different clip in advance.

Registering between In and Out Points to the Bin As a Separate Clip (Subclip) ▶ P180

When you add, delete, and edit the clip marker with a clip on the timeline displayed on the Player, register it to the bin as another clip, if necessary.

Registering Clips on the Player to the Bin ▶ P179

- Clip markers cannot be set in the [Sequence Marker] list.

Setting Clip Markers with Range

You can set clip markers with range to source clips registered to the bin and to the source currently displayed on the Player.

1 Display the source on the Player.

Displaying Clips on the Player ▶ P175

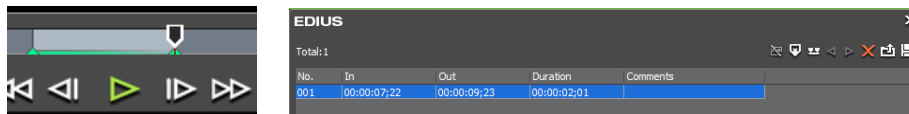
2 Set the In and Out points to source clips.

Setting the In and Out Points ▶ P176

3 Click [Set Mark In/Out] in the [Clip Marker] list.


[Clip Marker] List ► P277

The clip marker with range is set to the slider on the Player, and the timecode and duration of the In and Out points of the clip marker are displayed on the [Clip Marker] list.



Alternative

- Right-click the clip marker list, and click [Set Mark In/Out].
- Right-click the slider on the Player, and click [Set Clip Mark In/Out].
- Click [Marker] on the menu bar, and click [Add Mark to In/Out Point].

- 
 - In step 1, the clip marker with range is set with the start of the clip as the In point when the In point has not been set and with the end of the clip as the Out point when the Out point has not been set.
 - You can change the range of the clip marker by clicking [In], [Out] in the [Clip Marker] list or the timecode in [Duration] and entering the numerical value.
- Entry of Values ► P33**
- You can move the marker position by dragging the clip marker with range on the slider with [Ctrl] on the keyboard held down.



- Only the clip marker of the In point is displayed as the clip marker with range when that clip marker is not focused.

Note

- Clip markers with range cannot be set when the position of the In points of video and audio differ or when the position of the Out points of video and audio differ.
- When the focus is on the Recorder, clip markers cannot be set.
- Additions, deletions and edits made to clip markers are automatically reflected on clips in the bin. To leave behind the information of a clip before it is edited, register that clip to the bin as a different clip in advance.

Registering between In and Out Points to the Bin As a Separate Clip (Subclip) ► P180

When you add, delete, and edit the clip marker with a clip on the timeline displayed on the Player, register it to the bin as another clip, if necessary.

Registering Clips on the Player to the Bin ► P179

- Clip markers cannot be set in the [Sequence Marker] list.

Deleting Clip Markers

You can delete set clip markers.

1 Display a clip set with a clip marker on the Player.

Displaying Clips on the Player ► P175

2 Select the clip marker to delete from a clip marker list in the [Clip Marker] list.

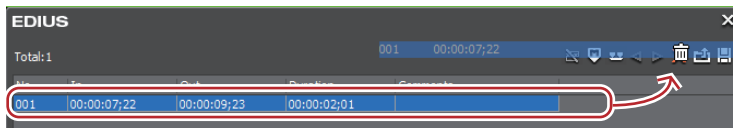
3 Click [Clear Marker] in the [Clip Marker] list.

[Clip Marker] List ► P277

Alternative

- Drag the clip marker to delete from the clip marker list, and drop it outside the [Clip Marker] list.

- Drag the clip marker to delete from the clip marker list, and drop it on [Clear Marker].



- Right-click a clip marker to delete from the clip marker list, and click [Clear marker].
- Right-click the clip marker on the slider on the Player, and click [Clear clip marker].
- Move the slider on the Player to the clip marker to delete, right-click the slider, and click [Set clip marker/Clear clip marker (Toggle)].
- Move the slider on the Player to the clip marker to delete, click [Marker] on the menu bar, and click [Clear Mark] → [Cursor].
- Click [Delete] in the [Marker Comments] dialog box for the clip marker.

Entering Comments to Clip Markers ▶ P280

- Deleting clip markers: [Delete]

- You can also delete all clip markers in the clip marker list in a single operation by the following operation.
 - Click [Marker] on the menu bar, and click [Clear Mark] → [All].
 - Deleting all markers: [Shift] + [Alt] + [V]

Note

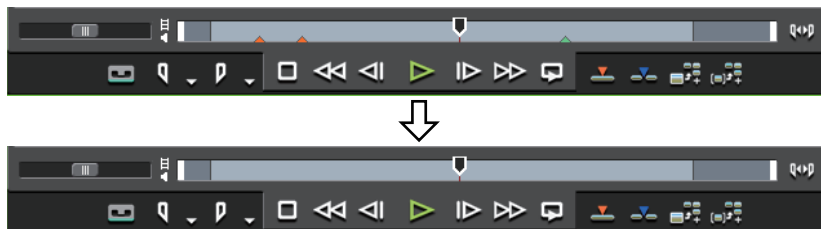
- When the focus is on the Recorder, clip markers cannot be deleted.

Showing/Hiding Clip Markers

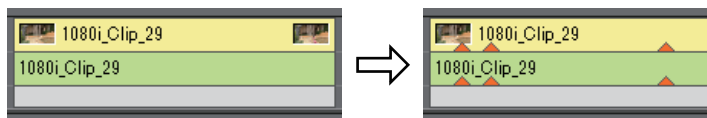
You can switch the show/hide setting for set clip markers for both the display on the Player and the display on the timeline.

- 1 Click [Marker] on the menu bar, and click [Show Clip Markers] → [Player] or [Timeline].

When this item is checked, the clip marker or comment is displayed. This is no longer displayed when this item is unchecked.



Also, the clip marker is displayed on clips on the timeline when [Timeline] is clicked to check it. This is no longer displayed when this item is unchecked.



- Only comments for clip markers can also be hidden. Uncheck [Marker] in [Overlay].
 - **Showing/Hiding Preview Window ▶ P131**
 - Only the clip marker of the In point is displayed as the clip marker with range when that clip marker is not focused.

Using Clip Markers

Entering Comments to Clip Markers

You can add a comment to clip markers that have been set.

1 Display a clip set with a clip marker on the Player.**Displaying Clips on the Player** ► P175**2 Right-click the clip marker on the slider, and click [Edit clip marker].****3 In the [Marker Comments] dialog box, enter a comment and click [OK].**

Entered comments are displayed on the Player when the slider is moved to the clip marker. When a clip marker with range has been set, the comment is displayed while the slider on the Player is in the In and Out point range of the clip marker.

**Alternative**

- Move the slider on the Player to the clip marker, click [Marker] on the menu bar, and click [Edit Mark].
- Click the [Comments] field in the [Clip Marker] list.
- Right-click the clip marker list, and click [Edit marker].
- Comment carriage return: [Ctrl] + [Enter]



- You can also edit entered comments by the same operation.

- Additions, deletions and edits made to clip markers are automatically reflected on clips in the bin. To leave behind the information of a clip before it is edited, register that clip to the bin as a different clip in advance.

Registering between In and Out Points to the Bin As a Separate Clip (Subclip) ► P180

When you add, delete, and edit the clip marker with a clip on the timeline displayed on the Player, register it to the bin as another clip, if necessary.

Registering Clips on the Player to the Bin ► P179

- When a clip set with a clip marker has been placed on the timeline, the comment is displayed on the Recorder when the timeline cursor is moved to the position of the clip marker. When a clip marker with range has been set, the comment is displayed on the Recorder while the timeline cursor is between In and Out points of the clip marker.

**Note**

- When the focus is on the Recorder, comments cannot be entered to clip markers.

Moving to the Clip Marker Position

You can jump to the position of set clip markers.

1 Click [Go to Previous Marker] or [Go to Next marker] in the [Clip Marker] list.**[Clip Marker] List** ► P277

The clip marker moves forward or backward.

When the focus is on the Player, the slider moves to the position of the clip marker set to that clip.

When the focus is on the Recorder, the timeline cursor moves in order to the positions of the clip markers for clips selected on the timeline.

**Alternative**

- In the clip marker list, double-click the clip marker of the position to move to.
- Right-click the clip marker list, and click [Go to Previous Marker] or [Go to Next marker].
- Moving to previous/next clip marker position: [Ctrl] + [←]/[Ctrl] + [→]

Importing Clip Marker Lists (Import)

You can import clip marker lists.

1 Display the clip at the import destination on the Player.**Displaying Clips on the Player** ► P175**2 Click [Import Marker List] in the [Clip Marker] list.****[Clip Marker] List** ► P277**3 In the [Open] dialog box, select a CSV file, and click [Open].****Alternative**

- Right-click the clip marker list, and click [Import Marker List].

Note

- When the focus is on the Recorder, clip marker lists cannot be imported.

Exporting Clip Marker Lists (Export)

You can export clip marker lists in the [Clip Marker] list to a CSV file.

1 Display the clip, from which the clip marker list should be exported, on the Player.

Displaying Clips on the Player ► P175

2 Click [Export Marker List] in the [Clip Marker] list.

[Clip Marker] List ► P277

3 In the [Save As] dialog box, specify a file name and save destination.

4 Select the output format, and click [Save].

Alternative

- Right-click the clip marker list, and click [Export Marker List].

Note

- When the focus is on the Recorder, clip marker lists cannot be exported.

Setting Markers to Timeline

- At export to DVD/BD, sequence markers become chapters and comments become chapter titles. Chapter titles can be edited at output.

Displaying the [Sequence Marker] List

Display the [Sequence Marker] list in the [Marker] palette.

1 Click [Toggle Palette Display] of the timeline.



2 Click [Marker].

Alternative

- Click [View] on the menu bar, and click [Palette] → [Marker].
- The [Effect], [Information] and [Marker] palettes can be shown/hidden together by clicking [View] on the menu bar and clicking [Show All] or [Hide All].
- Showing/hiding palette: [H]

Showing/Hiding [Effect] Palette ► P319

Showing/Hiding [Information] Palette ► P353



- If you switch the show/hide setting for the [Marker] palette, the setting for the bin window, source browser window, and palette tab associated to the [Marker] palette is also switched. To switch the show/hide setting individually, release the association of the window and the palette.

Combining Bin Window/Source Browser Window with a Palette ► P117

3 Click [Toggle Sequence Marker/Clip Marker] in the [Marker] palette.

Each click switches between the [Sequence Marker] list and the [Clip Marker] list.

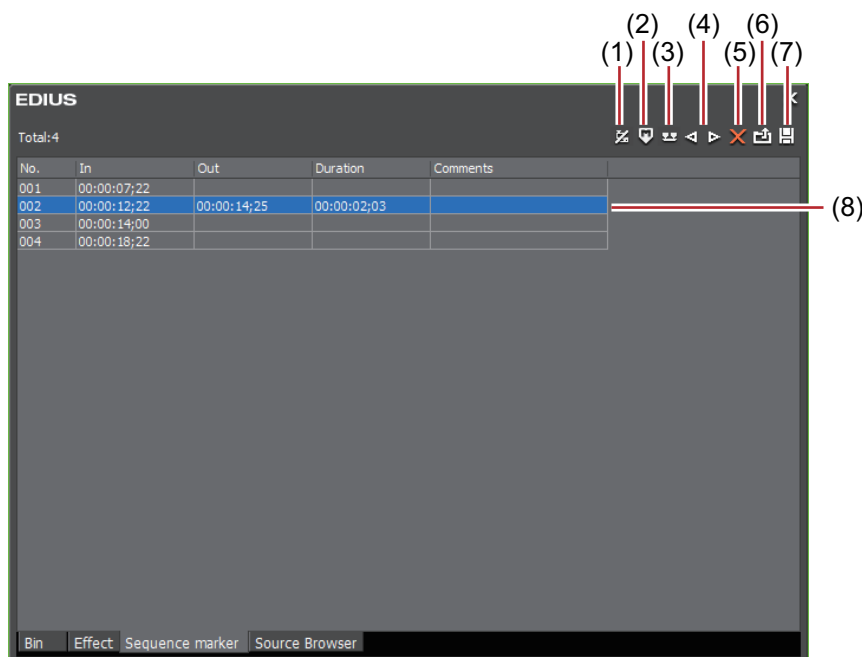
Displaying the [Clip Marker] List ▶ P276



Note

- When the focus is on the Player in the preview window, the list cannot be switched to the [Sequence Marker] list. Switch to this list after selecting the Recorder.

[Sequence Marker] List



(1)	[Toggle Sequence Marker/Clip Marker]	Switch between the [Clip Marker] list and the [Sequence Marker] list.
(2)	[Set Marker]	Add a sequence marker at the timeline cursor position.
(3)	[Set Mark In/Out]	Add a sequence marker with range to between In and Out points on the timeline.
(4)	[Go to Previous Marker]/[Go to Next marker]	Move to the previous/next sequence marker.
(5)	[Clear Marker]	Select and delete a sequence marker from the sequence marker list.
(6)	[Import Marker List]	Import a sequence marker list.
(7)	[Export Marker List]	Export the sequence marker list as a CSV file.
(8)	Sequence marker list	Display the timecode or comment of the set sequence marker.

Setting Sequence Markers

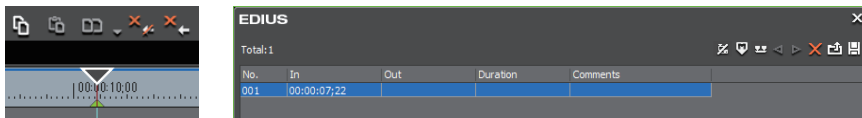
You can set a sequence marker on the timeline, and jump to the marker position or add a comment.

1 Move the timeline cursor to the position to set a sequence marker.

2 Click [Set Marker] in the [Sequence Marker] list.

[Sequence Marker] List ▶ P283

The sequence marker is set to the time scale, and the timecode of the sequence marker is displayed in the [Sequence Marker] list.



Alternative

- Right-click the time scale, and click [Set Sequence marker/Clear Sequence marker (Toggle)].
- Click [Marker] on the menu bar, and click [Add Mark].
- Right-click the sequence marker list, and click [Set Mark].
- Setting sequence markers: [V]

- You can move marker positions by the following operation.
 - Click the timecode at [In] in the [Sequence Marker] list, and enter the desired numerical value.
 - Drag the sequence marker on the time scale.
 - You can enter comments at the same time you are setting sequence markers. Click [Marker] on the menu bar, and click [Edit Mark] to enter the comment.
- Entering Comments to Sequence Markers ▶ P285**

Note

- Sequence markers cannot be set in the [Clip Marker] list.

Setting Sequence Markers with Range

You can set a sequence marker with range between In and Out points on the timeline.

Note

- Sequence markers with range become chapters at export to DVD/BD.

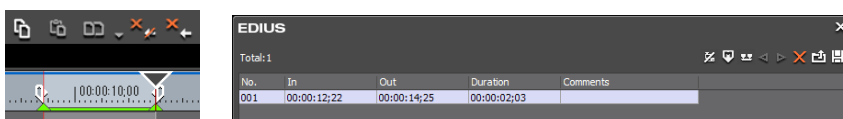
1 Setting the In and Out Points to the Timeline

Setting the In and Out Points on the Timeline ▶ P227

2 Click [Set Mark In/Out] in the [Sequence Marker] list.

[Sequence Marker] List ▶ P283

The sequence marker with range is set to the time scale, and the timecode and duration of the In and Out points of the sequence marker are displayed on the [Sequence Marker] list.

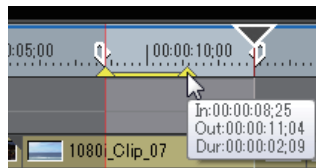


Alternative

- Right-click the sequence marker list, and click [Set Mark In/Out].
- Click [Marker] on the menu bar, and click [Set Mark In/Out].

- When an In point has not been set in step 1, the start of the timeline is set as the In point of the sequence marker with range. Also, when an Out point has not been set, the Out point at the end clip on the timeline is set as the Out point of the sequence marker with range.
 - You can change the range of the sequence marker by clicking [In], [Out] in the [Sequence Marker] list or the timecode at [Duration] and entering the numerical value.
- Entry of Values ▶ P33**

- You can change the duration of sequence markers by dragging the In or Out point of the sequence marker with range on the time scale.



You can also move sequence markers by dragging the line section between In and Out points.



- Only the sequence marker of the In point is displayed as the sequence marker with range when that sequence marker is not focused.

Note

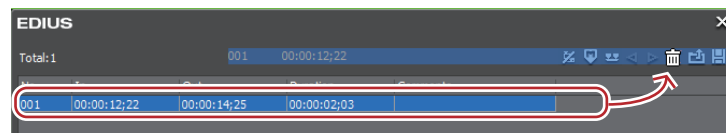
- Sequence markers cannot be set in the [Clip Marker] list.

Deleting Sequence Markers

- Select the sequence marker to delete from the sequence marker list at the [Sequence Marker] list.
- Click [Clear Marker] in the [Sequence Marker] list.
[Sequence Marker] List ► P283

Alternative

- Drag the sequence marker to delete from the sequence marker list, and drop it outside the [Sequence Marker] list.
- Drag the sequence marker to delete from the sequence marker list, and drop it on [Clear Marker].



- Right-click a marker in the sequence marker list, and click [Clear marker].
- Right-click a sequence marker on the time scale, and click [Clear Sequence Mark] → [Current Sequence Marker].
- Move the timeline cursor to the sequence marker on the time scale, click [Marker] on the menu bar, and click [Clear Mark] → [Cursor].
- Move the timeline cursor to the sequence marker on the time scale, right-click and click [Set Sequence marker/Clear Sequence marker (Toggle)].
- Click [Delete] in the [Marker Comments] dialog box for the sequence marker.

Entering Comments to Sequence Markers ► P285

- Deleting sequence markers: [Delete]




- You can also delete all sequence markers in a single operation by the following operation.
 - Right-click the sequence marker on the time scale, and click [Clear Sequence Mark] → [All].
 - Click [Marker] on the menu bar, and click [Clear Mark] → [All].
 - Deleting all markers: [Shift] + [Alt] + [V]

Using Sequence Markers

Entering Comments to Sequence Markers

You can add a comment to sequence markers that have been set.

-  • At output to DVD/BD, sequence marker comments become chapter titles. Chapter titles can be edited at export to DVD/BD.

- 1 **Right-click a sequence marker on the time scale, and click [Edit Sequence marker].**
- 2 **In the [Marker Comments] dialog box, enter a comment and click [OK].**

Alternative

- Click the [Comment] field in the [Sequence Marker] list.
- Right-click the sequence marker list, and click [Edit marker].
- Move the timeline cursor to the sequence marker on the time scale, click [Marker] on the menu bar, and click [Edit Mark].
- Comment carriage return: [Ctrl] + [Enter]

 You can also edit entered comments by the same operation.

Moving to Sequence Marker Positions

You can jump to the position of set sequence markers.

- 1 **Click [Go to Previous Marker] or [Go to Next marker] in the [Sequence Marker] list.**

[Sequence Marker] List ► P283

The timeline cursor moves to the front and back sequence markers.

Alternative

- In the sequence marker list, double-click the sequence marker of the position to move to.
- Right-click the sequence marker list, and click [Go to Previous Marker] or [Go to Next marker].
- Right-click the time scale, and click [Go to Previous Sequence Marker] or [Go To Next Sequence marker]. The timeline cursor moves to the previous or next sequence marker.
- Click [Marker] on the menu bar, and click [Go to Previous Sequence Marker] or [Go to Next Sequence Marker].
- Double-click a sequence marker on the time scale.
- Moving to sequence marker positions: [Shift] + [Page up]/[Shift] + [Page down]

Importing Sequence Marker Lists (Import)

You can import sequence marker lists.

- 1 **Click [Import Marker List] in the [Sequence Marker] list.**

[Sequence Marker] List ► P283

- 2 **In the [Open] dialog box, select a CSV file, and click [Open].**

Alternative

- Click [Marker] on the menu bar, and click [Import Marker List].
- Right-click the time scale, and click [Import Sequence Marker List].
- Right-click the sequence marker list, and click [Import Marker List].

Exporting Sequence Marker Lists (Export)

You can export sequence marker lists in the [Sequence Marker] list to a CSV file.

- 1 **Click [Export Marker List] in the [Sequence Marker] list.**

[Sequence Marker] List ► P283

- 2 **In the [Save As] dialog box, specify a file name and save destination.**
- 3 **Select the output format, and click [Save].**

Alternative

- Click [Marker] on the menu bar, and click [Export Marker List].
- Right-click the time scale, and click [Export Sequence marker list].
- Right-click the sequence marker list, and click [Export Marker List].

Playing Back Timelines

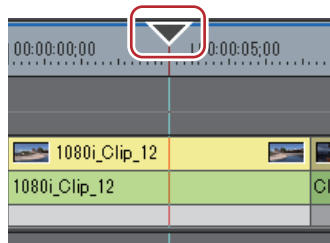
Playing Back Timelines

Playing Back by Scrubbing

You can drag the timeline cursor forwards and backwards and move to the position to confirm on the timeline.

1 Drag the timeline cursor forwards and backwards.

The timeline cursor moves, and its frame is displayed on the Recorder.



- When Recorder-related operations are being performed in the dual mode, a blue line is displayed around the Recorder.
- When the start frame of the timeline is displayed, a white triangle is displayed in the upper left corner.



Playing Back with Recorder Operation Buttons

You can play back or move clips in individual frame units by using the operation buttons on the Recorder.

Playback with Player Operation Buttons ▶ P173

Operation Button Settings ▶ P119

1 Click [Play] on the Recorder.

Playback starts on the Recorder.

2 Click [Stop] on the Recorder.

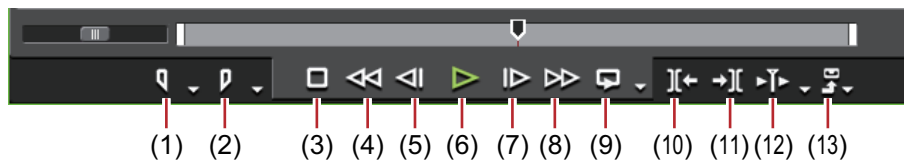
Playback stops.



Alternative

- Playing back Recorder: [Enter]

Recorder Operation Buttons



(1)	[Set In]	Set the In point to any position on the timeline. [I] <i>Setting the In and Out Points on the Timeline ► P227</i>
(2)	[Set Out]	Set the Out point to any position on the timeline. [O] <i>Setting the In and Out Points on the Timeline ► P227</i>
(3)	[Stop]	Stop playing back the timeline. [K], [Shift] + [↓]
(4)	[Review]	Rewind the timeline. Each click switches the playback speed in the reverse direction between 4 times and 12 times. [J]^{*1}
(5)	[1 Frame Back]	Each click rewinds the timeline one frame at a time in the reverse direction. Keeping this button clicked plays back the source at the same speed in the reverse direction. [←]
(6)	[Play]	Play the timeline in the forward direction. When this button is clicked during playback, playback pauses. Click again to restart playback. [Enter], [Space]
(7)	[Next Frame]	Each click advances the timeline one frame at a time in the forward direction. Keeping this button clicked plays back the source at the same speed in the forward direction. [→]
(8)	[Fast Forward]	Fast forward the timeline. Each click switches the playback speed in the forward direction between 4 times and 12 times. [L]^{*2}
(9)	[Loop]	Repeat playback between In and Out points of the timeline. If no In point has been set, playback is repeated from the beginning of the timeline, and if no Out point has been set, playback is repeated until the end of the timeline. The entire timeline can also be played back as a loop. [Ctrl] + [Space]
(10)	[Move to Previous Edit Point]	Move the timeline cursor to the edit point (e.g. the border of clip, In and Out points of the timeline) at the left side of the timeline cursor position. [A], [Ctrl] + [←]
(11)	[Next Edit Point]	Move the timeline cursor to the edit point at the right side of the timeline cursor position. [S], [Ctrl] + [→]
(12)	[Play the Current Area]	Play back the area before and after the timeline cursor.
(13)	[Export]	Display output (import) related menus.

*1 Each press of [J] on the keyboard switches the rewind speed in 6 levels between 2 to 32 times. Press [L] to slow down the rewind speed. Press this key with the source paused to play back at the same speed in the reverse direction.

*2 Each press of [L] on the keyboard switches the fast-forward speed in 6 levels between 2 to 32 times. Press [J] to slow down the fast-forward speed. Press it while pausing to play back at the same speed in the forward direction.



- When playback processing is slow, try the following operations.
 - Click [Play] with [Shift] on the keyboard held down. (Playback is performed after the data is temporarily stored in the playback buffer. The playback buffer can be changed by [Application] in [System Settings] → [Playback].)
 - Render clips or a part of the timeline.

[Playback] ▶ P75

Rendering only Overload/Load Areas ▶ P295

Rendering Clips/Transitions ▶ P296

- To move the timeline cursor to the start and end of the timeline, press [Home] and [End] on the keyboard, respectively.
- Moving 10 frames back: [Shift] + [←]
- Moving 10 frames forward: [Shift] + [→]

Playing Back with Shuttle/Slider

You can play back a clip by dragging the shuttle or slider on the Recorder.

Control Area Settings ▶ P134

1 Drag the shuttle/slider.

A frame at the slider position is displayed on the Recorder.



Alternative

- Shuttle (fast forward)^{*1}: [Ctrl] + [L]
- Shuttle (rewind)^{*2}: [Ctrl] + [J]

*1 Each click of [Ctrl] + [L] on the keyboard switches the fast-forward speed in 12 levels between 1/16 to 32 times. Press [Ctrl] + [J] on the keyboard to slow down.

*2 Each click of [Ctrl] + [J] on the keyboard switches the rewind speed in 12 levels between 1/16 to 32 times. Press [Ctrl] + [L] on the keyboard to slow down.

Shuttle/Slider



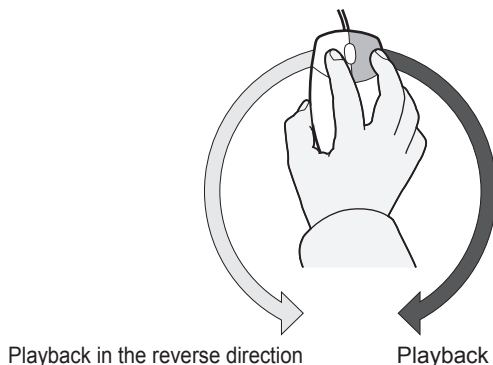
(1)	Shuttle	Drag the shuttle to the left and right to play back in the reverse and forward directions, respectively. Release dragging to return the shuttle to the center and pause playback. The playback speed can be selected in 21 levels both in the forward and reverse directions, from 1/20 to 16 times.
(2)	Sliders	Click any position on the position bar to move the slider and display the frame for that position. You can also drag the slider.
(3)	Position bar	Indicates the timeline on the Recorder.

Playing Back with Mouse (Mouse Gesture)

You can play back a clip by moving the mouse on the Recorder.

- 1 **Position the mouse cursor on the Recorder, and move the mouse as if to draw a circle, with the right mouse button clicked.**

Draw the circle clockwise to playback in the forward direction, and counterclockwise in the reverse direction. The playback speed changes in proportion to the speed of the mouse action.



Alternative

- Place the mouse cursor on the Recorder, and rotate the mouse wheel.

Playing Back between In and Out Points on the Timeline (Loop Playback)

Repeat playback between In and Out points of the timeline.

- 1 **Setting the In and Out Points to the Timeline**
Setting the In and Out Points on the Timeline ▶ P227
- 2 **Click [Loop] on the Recorder.**



Playback is repeated between In and Out points of the timeline.
Playback starts from the current position of the timeline cursor.

Alternative

- Loop playback: [Ctrl] + [Space]

- 3 **Click [Stop] on the Recorder.**
Playback stops.

Playing Back the Area around the Timeline Cursor

You can play back the area around the timeline cursor.

- 1 **Move the timeline cursor to the point from which you want to start playing back.**
- 2 **Click [Play the Current Area] on the Recorder.**



You can repeatedly play back the area around the timeline cursor.

- 3 **Click [Stop] on the Recorder.**
Playback stops.



- You can also play back around the nearest cut point placed before the timeline cursor for the specified duration. Click the [Play the Current Area] list button, and click [Play around Cut Point (1 Sec)], [Play around Cut Point (2 Sec)] or [Play around Cut Point (3 Sec)].

- You can set the preliminary operation time (Preroll) at [Preview] in [User Settings] → [Playback].
[Playback] ▶ P93

Displaying a Desired Scene Immediately

Jumping to In and Out Points on the Timeline

You can jump to In and Out points on the timeline.

- Click the [Set In] ([Set Out]) list button on the Recorder.



- Click [Go to In Point] ([Go to Out Point]).

Setting the In and Out Points on the Timeline ▶ P227

Alternative

- Click [Marker] on the menu bar, and click [Go to In Point] ([Go to Out Point]).
- Right-click the slider on the Recorder, and click [Go to In Point] ([Go to Out Point]).
- Right-click the time scale, and click [Go to In Point] ([Go to Out Point]).
- Right-click the timeline cursor, and click [Go to In Point] ([Go to Out Point]).
- Jumping to the In and Out points on the timeline: [Q]/[W]

Entering the Timecode to Jump to

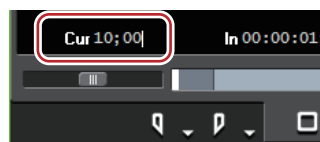
You can jump to a specified position on the timeline by entering the numerical values for the timecode at that position.

- Click on the Recorder.

- Enter the timecode with the numerical keypad on the keyboard.

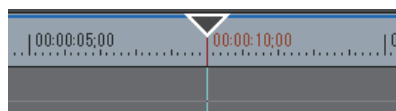
Example:


When "1000" is entered



- Press [Enter] on the keyboard.

The timeline cursor moves.



-  Enter "+" or "-" at the beginning of the number with the numerical keypad, and the timeline cursor will jump forward or backward by the entered number.

Entry of Values ▶ P33

Match Frame

This function acquires the timecode of the frame displayed on the Player (or Recorder), and jumps to the position matching the timecode on the timeline (or Player). For example, you can use match frame when switching the video image of an interview to another video image of the same interview which was recorded from a different angle using 2 cameras, to smoothly switch the image cuts without any interruption in motion or sound. Match frame is available even for source video taken from equipment that can be controlled on a deck.

Jumping from Player to Timeline

After acquiring the timecode of the clip displayed on the Player, jump to the corresponding position on the timeline clip and display it on the Recorder.

The timeline cursor is jumped to the timeline position matching the timecode of the specified source.


- 1 **Play back a clip on the Player, and display the frame to be jumped to.**
- 2 **Click [Match Frame (Player to Recorder)] on the Player.**



The timeline cursor moves, and the matching frame is displayed on the Recorder.

Alternative

- Jumping from Player to the timeline: [Ctrl] + [F]

-  • By default, [Match Frame (Player to Recorder)] is not displayed. Before performing the operation, set to display the buttons on the Player.

Operation Button Settings ▶ P119

- Clips containing the timecode of the frame currently displayed on the Player can be searched in the bin by the following operation.
 - Click [Clip] on the menu bar, and click [Search Bin] → [Including Cursor (Player)].
 - Searching bin (Player TC): [Shift] + [Ctrl] + [F]

Jumping from the Timelines to Source Clip

Display the matching frame of the source clip at the timeline cursor position on the Player.


Match frame is possible on decks if the source is from a deck, or match frame is possible on files if the source is a file.

- 1 **Move the timeline cursor to display the frame to be jumped to on the Recorder.**
- 2 **Click [Clip] on the menu bar, and click [Match Frame] → [Display Source Clip].**

The matching frame is displayed on the Player.

Alternative

- Displaying source clip: [Alt] + [F]

-  • When the source currently displayed on the Player is a file, [Match Frame (Recorder to Player)] performs match frame on that file. When the source is from a deck, match frame is performed on the deck.
- When the source currently displayed on the Player is a file, [Match Frame (Recorder to Source)] displays the clip currently selecting match frame on the timeline, and performs match frame. When the source is from a deck, match frame is performed on the deck.
- You can search clips with timecodes of the timeline clip in the bin by the following operation. The search result folder is created in the folder view of the bin.
 - Click [Clip] on the menu bar, and click [Search Bin] → [Including Cursor (Recorder)].
 - Searching clips at the timeline cursor position in the bin: [Shift] + [F]

Searching for Clips on the Timeline in the Bin ▶ P236

- The clip can be displayed on the Player by clicking and selecting the clip on the timeline and performing the following operation.
 - Click [Clip] on the menu bar, and click [Show in Player].
 - Displaying selected clip on the Player: [Shift] + [Y]
- In scenes set with a transition, 2 clips overlap each other on the same track. To execute the match frame function on overlapping clips, you can set the clip to acquire the timecode in before or after the clip.

[Match Frame] ▶ P91

Synchronizing the Player and the Timeline (Gang Mode)

Switch to the gang mode to synchronize the cursor positions or In and Out points of the Player and the timeline.

Using the gang mode before preroll editing is useful in deciding the position where clips are placed on the timeline.

Previewing Cut Switch Points (Preroll Edit (Preview)) ▶ P232

Placing Clips while Checking Cut Switch Points (Preroll Edit (Rec)) ▶ P232

Note

- Sources displayed in the deck mode cannot be synchronized.

Switching to the Gang Mode

1 Click [Set Gang Mode] on the Player.

Each click switches the mode on and off.

A diagonal line appears on the icon when the mode is off.



- By default, [Set Gang Mode] is not displayed. Before performing the operation, set to display the buttons on the Player.

Operation Button Settings ▶ P119

Synchronizing Cursor Positions

1 Move the slider on the Player to the position to be synchronized.

2 Move the timeline cursor to the position to be synchronized.

3 Click the [Set Gang Mode] list button on the Player.



4 Confirm that [Cursor] is checked.

5 Switch to the gang mode.

Switching to the Gang Mode ▶ P293

The cursors of the Player and the timeline are synchronized based on the current cursor position. The cursor positions to be synchronized can be changed by the following operation. After unchecking [Cursor] and moving the cursor of the Player or the timeline, check [Cursor] again.

Synchronizing the In and Out Points

1 Set the In (Out) point on the Player to the position to be synchronized.

2 Set the In (Out) point on the timeline to the position to be synchronized.

3 Click the [Set Gang Mode] list button on the Player.



4 Click [In] ([Out]) to check the item.

5 Switch to the gang mode.

Switching to the Gang Mode ▶ P293

The In (Out) points of the Player and the timeline are synchronized based on the current In (Out) point position. The In (Out) point positions to be synchronized can be changed by the following operation. After unchecking [In] ([Out]) and changing the In (Out) point of the Player or the timeline, check [In] ([Out]) again.

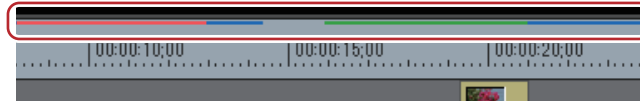
Smooth Playback

Judge which part of clips require rendering, and perform rendering on only required parts.

Color Coding of Time Scale

Realtime processing sometimes cannot keep up when playing back a timeline. The line of the part judged as requiring rendering when playing back changes color.

The line colors indicate the following states.



Line color	Timeline state
No line	No clip exists.
Blue	A clip matching the project settings is placed.
Light blue	Playback is keeping up. (Rendering is sometimes required.)
Yellow	Rendering option (load area)
Red	Rendering is required (overload area).
Green	Already rendered



- Rendering is judged based on the remaining buffer set by [Application] in [System Settings] → [Render], and a red line is displayed for overload areas when the remaining buffer is less than the preset value.

[Render] ▶ P76

- When data such as CG animation has been placed one frame at a time as consecutive still images on the timeline, rendering the area will not lighten the load of playback processing. In this case, use the [Render and Add to Timeline (Between In/Out)] function to replace with the exported clip.

Exporting Video Clips from Timeline ▶ P296

- Rendering is enabled even if the clip becomes out-of-position by a ripple delete, for example.



Note

- Tracks with mute set to video parts cannot be rendered.
- It is recommended to export the file using the exporter if you need to use rendered clips.

Exporting in File Formats ▶ P417

- When rendering is performed, a temporary file is created in the “rendered” folder. Make sure that there is enough disk space for temporary files before starting rendering.

Manually Deleting Temporary Files ▶ P297

Rendering Overload Areas of the Entire Sequence

Render all the areas that are judged as overload (red) in the entire sequence.

- 1 Click the **[Render In/Out (Render Overload Area)]** list button on the timeline.



- 2 Click **[Render Sequence]** → **[Render Overload Area]**.


To cancel rendering, click [Cancel] in the [Render] dialog box.

Lines in the rendered areas on the time scale change color to green.



Alternative

- Click [Render] on the menu bar, and click [Render Sequence] → [Render Red Area].
- Rendering overload areas on the entire sequence: **[Shift] + [Ctrl] + [Q]**

- 
 - Overload areas (red) and load areas (yellow) on the entire sequence can be rendered in a single operation by the following operation.
 - Click the [Render In/Out (Render Overload Area)] list button, and click [Render All] → [Render Loaded Area].
 - Click [Render] on the menu bar, and click [Render Sequence] → [Render Orange Area].
 - Rendering (load areas) on the entire sequence: [Shift] + [Ctrl] + [Alt] + [Q]
 - When the In and Out points are set on the timeline, only the range between In and Out points is rendered.

Rendering Overload Areas between In and Out Points ▶ P295


Rendering Overload Areas in the Entire Project

Render all areas that are judged as overload (red) in the entire project that comprises multiple sequences.

- 1 Click [Render] on the menu bar, and click [Render Entire Project] → [Render Red Area].

To cancel rendering, click [Cancel] in the [Render] dialog box.

Lines in the rendered areas on the time scale change color to green.

- 
 - You can render the overload (red) and load (yellow) areas in the entire project in a single operation. Click [Render] on the menu bar, and click [Render Entire Project] → [Render Orange Area].

Rendering only Overload/Load Areas

Render only the areas that are judged as overload (red) or load (orange).

- 1 Right-click the overload area (red) or load area (yellow) on the time scale, and click [Render].

To cancel rendering, click [Cancel] in the [Render] dialog box.

Lines in the rendered areas on the time scale change color to green.

Rendering Overload Areas between In and Out Points

Render areas judged as overload (red) between In and Out points on the timeline.

- 1 Setting the In and Out Points to the Timeline

Setting In/Out Points and Placing Clips ▶ P230

- 2 Click [Render In/Out (Render Overload Area)] on the timeline.




To cancel rendering, click [Cancel] in the [Render] dialog box.

Lines in the rendered areas on the time scale change color to green.

Alternative

- Click [Render] on the menu bar, and click [Render Between In/Out] → [Render Red Area].
- Click the [Render In/Out (Render Overload Area)] list button, and click [Render In/Out] → [Render Overload Area].
- Right-click the time scale, and click [Render In/Out Point] → [Render Overload Area].
- Rendering overload areas between In and Out points: [Ctrl] + [Q]

- 
 - You can render all areas judged to be red, yellow and light blue between In and Out points by the following operation.
 - Click [Render] on the menu bar, and click [Render In/Out] → [All].
 - Click the [Render In/Out] list button, and click [Render In/Out] → [All].
 - Right-click the time scale, and click [Render In/Out Point] → [All].
 - Rendering between In and Out points (all): [Shift] + [Alt] + [Q]
 - Overload areas (red) and load areas (yellow) between In and Out points can be rendered in a single operation by the following operation.
 - Click [Render] on the menu bar, and click [Render Between In/Out] → [Render Orange Area].
 - Click the [Render In/Out (Render Overload Area)] list button, and click [Render In/Out] → [Render Loaded Area].
 - Right-click the time scale, and click [Render In/Out Point] → [Render Loaded Area].
 - Rendering between In and Out points (load area): [Ctrl] + [Alt] + [Q]

Rendering Around the Timeline Cursor Position

Render only overload areas (red) or load areas (yellow) around the timeline cursor position.

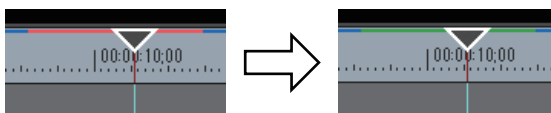
1 Move the timeline cursor to the area to be rendered.

2 Click [Render] on the menu bar, and click [Render Cursor Area].

To cancel rendering, click [Cancel] in the [Render] dialog box.

Areas of the same line color on the time scale are rendered around the timeline cursor position. When there is a transition in same-color lines, the rendered area becomes the area up to the In or Out point of the transition.

Lines in the rendered areas on the time scale change color to green.



Rendering Clips/Transitions

Perform rendering in individual clip or transition units.

Note

- If you perform clip rendering on a clip with alpha effect, alpha information will no longer be applied.
- Keys, transparencies or transitions between tracks (effects set in the mixer area) cannot be rendered. In this case, take the alternate method to render a part of the timeline.

1 Right-click the clip to be rendered, and click [Render].

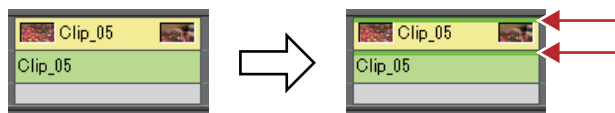
To render a transition, right-click the transition and click [Render].

To cancel rendering, click [Cancel] in the [Render] dialog box.

When rendering is completed, a green line is displayed on the clip.

Example:

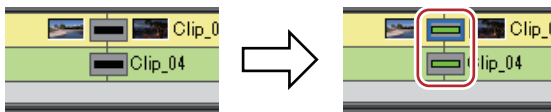
When a clip has been rendered



When a transition has been rendered, the center line of the transition changes color to green.

Example:

When a clip transition has been rendered



Alternative

- Click [Render] on the menu bar, and click [Render selected clip/transitions].
- Rendering clips/transitions: [Shift] + [G]

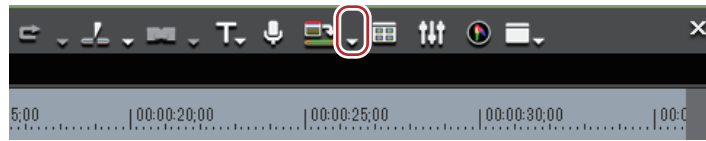
Exporting Video Clips from Timeline

Render between In and Out points on the timeline, and export only video clips as a file in AVI format. Exported clips are placed on the V/VA track.

1 Set the area of the clip to export from the timeline with the In and Out points.

Setting the In and Out Points on the Timeline ► P227

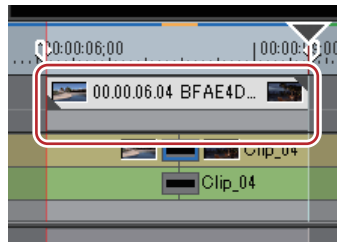
2 Click the [Render In/Out (Render Overload Area)] list button on the timeline.



3 Click [Render and Add to Timeline (Between In/Out)].

To cancel export, click [Cancel] in the [Render] dialog box.


When rendering is completed, the video clip which has been exported to the V/A track of the timeline is placed.



If there is no space to place a clip on the track, a new V track is added.

Alternative

- Click [Render] on the menu bar, and click [Render and Add to Timeline (Between In/Out)].
- Right-click the time scale, and click [Render and Add to Timeline (Between In/Out)].
- Exporting video clips from the timeline: [Shift] + [Q]

-  • Exported clips are saved in the “rendered” folder in the project folder.

Note

- Track areas set with title track clips and mute are exported as black clips.
- Exported clips are automatically deleted when a project is ended while these clips are not in use in the project. If exported clips will be required for continued use later, either place them on the timeline or save the project with the clips registered to the bin.
- To use exported clips in other projects, copy the file to another folder.

Exporting Still Image Clips from the Timeline


1 On the Recorder, display frames to be saved as still images.

2 Click [Clip] on the menu bar, and click [Create a Still Image].

The still images are saved in the same folder as the project, and the still image clips are registered to the bin.

Alternative

- Exporting still image clips from the timeline: [Ctrl] + [T]

-  • Video images in the selected preview window (Player/Recorder) are exported as still image clips.
 - Still images are saved as side-by-side in the stereoscopic edit mode.
 - Video from a deck also can be saved as still image clips.
 - The aspect ratio of still images sometimes is output different from that of the original image depending on the frame size. To output correctly, set to correct the aspect ratio. The settings of still images to export can be changed by [Importer/Exporter] in [System Settings] → [Still Image].

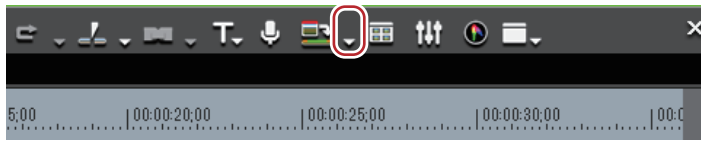
[Still Image] ▶ P79

Manually Deleting Temporary Files

Manually delete temporary files that are created during rendering.

Temporary files for rendering are saved temporarily in the “rendered” folder created in the project folder. Temporary files that are not referenced by a project are automatically deleted when the project ends, however, it is recommended to manually delete them when the “rendered” folder increases in size.

1 Click the [Render In/Out (Render Overload Area)] list button on the timeline.




2 Select [Delete Render Files] and click [Files that are not Used] or [All Files].

 **Alternative**

- Click [Render] on the menu bar, and click [Delete Temporary Render Files] → [Files Not Used] or [All Files].
- Deleting unused files: [Alt] + [Q]

3 Click [Yes].

-  • Set when to automatically delete invalid rendering files (i.e. files not referenced by a project) at [Application] in [System Settings] → [Render].
[Render] ► P76
 - A temporary file is created in the following cases:
 - When a clip has been exported from the timeline
 - When part of the timeline has been rendered
 - When a clip has been rendered

 **Note**

- The temporary files created in the “rendered” folder can be freely edited (e.g. renamed, deleted or copied). However, temporary files such as [Render In/Out] that are referenced by a project cannot be edited. When a clip has been placed on the timeline by the [Render and Add to Timeline (Between In/Out)] function, the clip becomes an offline clip when the original temporary file is edited.

About Restoration of Offline Clips ► P66

Sequences

Creating New Sequences

What Are Sequences?

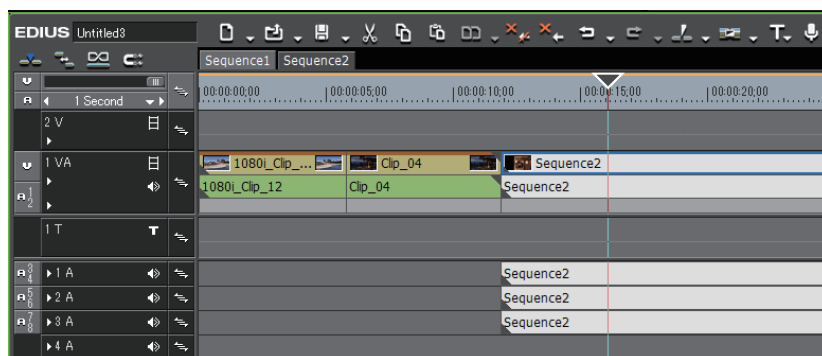
Sequence is a set of clips arranged on the timeline.

You can open and edit sequences on the timeline. A single project can comprise multiple sequences, and a sequence to edit can be selected by clicking the sequence tab. The sequence is registered in the bin as “TL (timeline) sequence clip”.

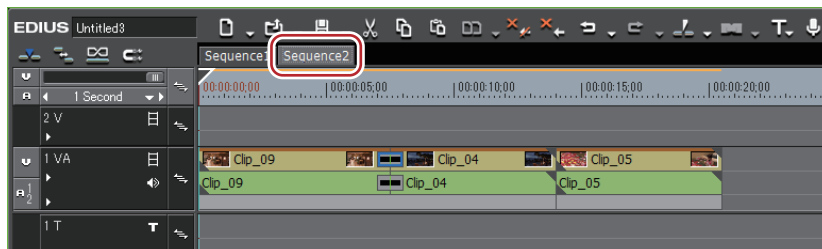
Nest sequence is the function for placing a certain sequence within other sequences in the same way as a clip for editing.

Example:

When “Sequence 2” is placed in the 1VA track of sequence 1



You can open and edit the clip in “Sequence 2”, which is placed in Sequence 1, in the timeline window.



- Right-click the sequence tab to display the menu for changing the sequence setting or closing the sequence. Right-click the sequence tab of the sequence to be set.

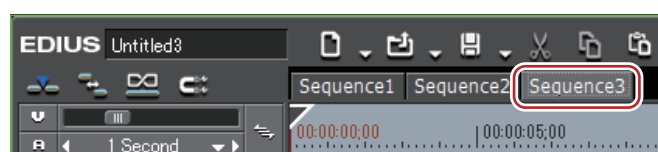
Creating New Sequences

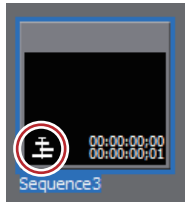
Create a new sequence.

- 1 Click [Create New Sequence] of the timeline.



A blank sequence is created in the timeline window, and a timeline sequence clip also is registered to the bin at the same time.





To select a sequence, click the sequence tab.

Alternative

- Click [File] on the menu bar, and click [New] → [Sequence].
- Right-click a blank area in the clip view of the bin, and click [New Sequence]. In this case, a blank timeline sequence clip is registered to the bin but not displayed in the timeline window.

Opening the Sequence to Edit ▶ P300

- Creating new sequence: [Shift] + [Ctrl] + [N]



- You can change sequence settings.
Sequence Settings ▶ P46
- You can sort the order of sequence tabs by dragging and dropping the tabs.
- You can rename sequences by right-double-clicking the sequence tab.

Editing Sequences

Opening the Sequence to Edit

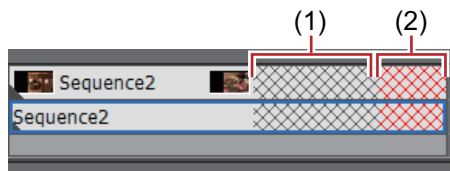
Open and edit timeline sequence clips in the timeline window.

1 Double-click a timeline sequence clip in the bin or on the timeline.

The sequence tab is displayed in the timeline window. Click the sequence tab to select the sequence to edit.



- Edits are reflected in the timeline sequence at the place destination when the timeline sequence clip is edited. Not, however, that the length of the timeline sequence at the place destination remains unchanged. The display changes as follows when there is not enough clip length left after editing:



- (1) is gray and no clips are present in the total length of the sequence.
- (2) is gray and no clips are present extending over the total length of the sequence.

- The total length can be changed in the sequence settings.
Sequence Settings ▶ P46
- You can import timeline sequences created in other projects.
Importing Sequence (Sequence Import) ▶ P51



Alternative

- Right-click a timeline sequence clip in the bin, and click [Open Sequence].


Closing Sequences

1 Right-click the sequence tab, and click [Close This Sequence].



Alternative

- Click [View] on the menu bar, and click [Close Sequence] → [Active Sequence].

-  • You can close all but one of currently displayed sequences by the following operation.
 - Right-click the sequence tab to leave behind, and click [Close All Other Sequences].
 - Click the sequence tab to leave behind, and click [View] → [Close Sequence] → [All Sequences except Active Sequence] on the menu bar.
- You cannot close all sequences displayed in the timeline window.

Effectively Editing Clips Using the Nest Sequence Function

Registering Clips on the Timeline to the Bin as Sequences

You can register clips between In and Out points placed on the timeline to the bin. You can also select a clip to register to the bin as a timeline sequence clip.


1 Setting the In and Out Points to the Timeline

Setting the In and Out Points on the Timeline ► P227

Select a clip when registering a clip on the timeline to the bin as a timeline sequence clip.

2 Click [Edit] on the menu bar, and click [Add Sequence to Bin] → [In/Out] or [Selected Clip].

When [In/Out] is clicked, the range between In and Out points is registered to the bin as the timeline sequence clip, and when [Selected Clip] is clicked, the selected clip is registered.

-  • You can convert a video clip between In and Out points on the timeline to a sequence to place on a track. After setting the In and Out points to the timeline, click [Edit] on the menu bar, and click [Set Between In/Out as Sequence]. The clip between In and Out points is placed on the track as a sequence, and the timeline sequence clip is registered also to the bin at the same time. If there is no space to place a clip on the track, a new V track is added.
 - Active sequences in the timeline window can be registered to the bin as timeline sequence clips by the following operation.
 - Right-click the sequence tab, and click [Add to Bin].
 - Click [Edit] on the menu bar, and click [Add Sequence to Bin] → [All].

Creating Blank Timeline Sequence Clips on Tracks

You can place a blank timeline sequence clip in advance at the sequence insert position.

1 Move the timeline cursor to the position to create the timeline sequence clip.

2 Right-click the track to create the sequence at, and click [New Sequence].

A blank timeline sequence clip is placed on the track with the position of the timeline cursor set as the In point. It is also registered to the bin at the same time.

Duplicating Sequences

You can duplicate timeline sequence clips in the bin. Create a sequence with the same content but using a different name.

1 Right-click a timeline sequence clip in the bin, and click [Duplicate Sequence].

Duplicated clips are named after the original clips and are appended with a sequential number.

Placing Sequences within Other Sequence (Nest Sequence)

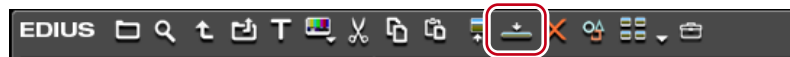
You can place a timeline sequence clip within another timeline sequence.

1 Set the source channel mapping.

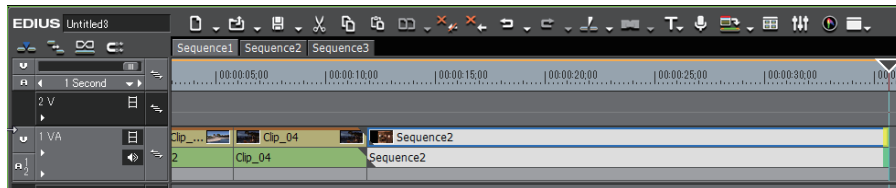
Setting Channel Mapping ► P225

2 Move the timeline cursor to the position to place the clip.

3 Select a timeline sequence clip from the bin, and click [Add to Timeline].



The timeline sequence clip (gray) in the bin is placed on the other sequence.



 **Alternative**

- Directly drag and drop a timeline sequence clip in the bin onto the timeline.
- Right-click a timeline sequence clip in the bin, and click [Add to Timeline].
- Play back a timeline sequence clip on the Player, and click [Insert to Timeline] or [Overwrite to Timeline].

Multicam Mode

Displaying Multiple Clips Simultaneously for Editing

Switching to the Multicam Mode

In the multicam mode, you can play back and edit up to 16 screens of multiple clips simultaneously.

1 Click [Mode] on the menu bar, and click [Multicam Mode].

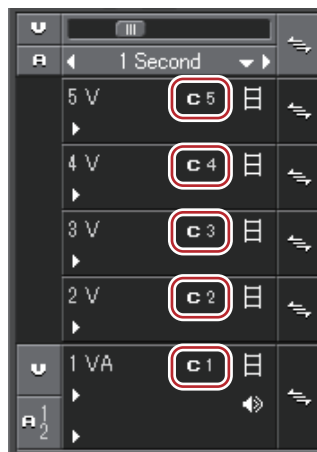
The preview window switches from the standard mode to the multicam mode.

When the preview window is displayed in the dual mode, the left side is the divided screen corresponding to the number of cameras, and the right side is the master (selected camera).

When the preview window is displayed in the single mode, the screen is the divided screen corresponding to the number of cameras. The screen can also be set to display only the master.

Setting the Multicam Display ▶ P305

[Camera mapping] is displayed on the track panel of the timeline window.



Alternative

- Switching to the multicam mode: [F8]



- When the mode is switched to the multicam mode with clips placed on the timeline, the camera switch point is automatically set to the In and Out points of each clip. To change the camera switch point, overwrite it.

Setting the Camera Switch Point during Playback ▶ P306

- When the preview window is displayed in the single mode, the display can be switched between the selected camera only display and the divided screen. Click [Mode] on the menu bar, and click [View Multicam] → [Show Only the Selected Camera in Single Monitor Mode].
- The multicam mode can be switched to the standard mode by the following operation.
 - Click [Mode] on the menu bar, and click [Normal Mode] or [Multicam Mode].
 - Press [F8] on the keyboard again.
 - Switching to standard mode: [F5]
- Operations on clips or tracks in the multicam mode are the same as in the standard mode, however, shortcut keys differ from those in the standard mode.



Note

- The multicam mode ends and the mode changes to the standard mode when the following operations are performed during multicam editing.
 - Switching to the Player during editing in the single mode
 - Displaying clips on the Player during editing in the dual mode
 - Opening the effect or layouter setting dialog box

Changing the Number of Screens

You can switch the number of multicamera screens on the Recorder.

- 1 Click **[Mode]** on the menu bar, and click **[Number of Cameras]** → an item.

Setting the Sync Point to Place Clips

Select a sync point as the reference point for placing multiple clips in the multicam mode to place clips at.

- 1 Click **[Mode]** on the menu bar, and click **[Sync Point]** → the sync point to set.

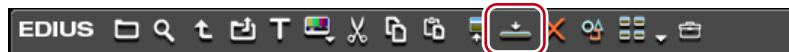
[Asynchronous]	Place clips from the timeline cursor position of the track where video source channel is connected in the sorting order of the bin.
[Timecode]	Place a clip onto individual tracks referenced to the start timecode of each clip. When the clip has no start timecode, the start timecode is assumed to be "00:00:00;00".
[Rec Time]	Place a clip onto individual tracks referenced to the recording time of each clip. When the clip has no start time, the recording time is assumed to be "00:00:00". (The recording time is taken as the reference regardless of the recording date.)
[Clip In]	Place a clip onto individual tracks referenced to the In point timecode of the clip. If the clip has no start In point timecode, the top of the clip is taken as the reference.
[Clip Out]	Place a clip onto individual tracks referenced to the Out point timecode of the clip. If the clip has no start Out point timecode, the end of the clip is taken as the reference.

- 2 Map video source channels to V/VA tracks.

Setting Channel Mapping ▶ P225

Map video source channels to the track where clips are placed. When **[Asynchronous]** is selected in step 1, clips are placed on the track where video source channels are mapped; however, when another sync point is selected, clips are placed above the track where video source channels are mapped. If there is no space to place a clip on the track, V track is automatically added.

- 3 Select multiple clips from the bin, and click **[Add to Timeline]** in the bin.



The clips are placed in accordance with the sync point selected in step 1.

The camera switch point is automatically set to the In and Out points of each clip. To change the camera switch point, overwrite it.

Setting the Camera Switch Point during Playback ▶ P306

Clips placed on the timeline are displayed on the Recorder in the multicam screen.

Alternative

- Drag and drop a clip in the bin onto the timeline.

Note

- A track is automatically added when there are insufficient tracks for adding clips. At this time, only V tracks are automatically added. Add VA tracks in advance when they are needed.

Changing the Assigned Camera

You can change the camera assigned to each track.

When clips have been placed on the timeline in the multicam mode, cameras are assigned in the track number order of V/VA tracks containing clips.


1 Click [Camera mapping] on the track panel of the V/VA track.



2 Click the camera to assign to the selected track.

Click [Unmap] to release the assignment set to the selected track.

Click [Default] to initialize all camera assignments set to tracks. Cameras are reassigned in order of track numbers of the V/VA track.

-  • [Camera mapping] is displayed only in the multicam mode.
- Tracks not assigned a camera are not displayed in the multicam mode.
- You can change camera assignments during editing.
- You can switch the display/hide setting for the track name at the upper left of each screen of the multicam mode. Click [Mode] on the menu bar, and click [View Multicam] → [Display Track Name] to uncheck the item.

Setting the Multicam Display

Set the preview display during editing in the multicam mode.

1 Click [Mode] on the menu bar, and click [View Multicam] → an item.

On items are checked.

[Skipped Frames]	Increase the skipped frames to reduce the load on the system during playback.
[Apply Video Filter]	Batch-switch the disabled (on)/enabled (off) setting of the video filter applied to clips. Temporarily disabling the video filter can reduce the load on the system during playback.
[Display Track Name]	Switch the show/hide setting for track names assigned to the divided screen.
[Display Only the Selected Camera on Full Screen Preview (Auto)]	When this item is on, only the video of the selected camera (master) is displayed in displays whose full screen view setting is set to [Auto]. When this item is off, the divided screen is displayed. [Monitor] ▶ P94
[Output the Selected Camera to External Monitor]	When this item is on, only the video of the selected camera (master) is displayed on the external monitor. When this item is off, the divided screen is displayed.
[Show Only the Selected Camera in Single Monitor Mode]	This item is enabled when the preview window is in the single mode. When this item is on, only the video of the selected camera (master) is displayed.

Setting the Camera Switch Point and Selecting the Camera

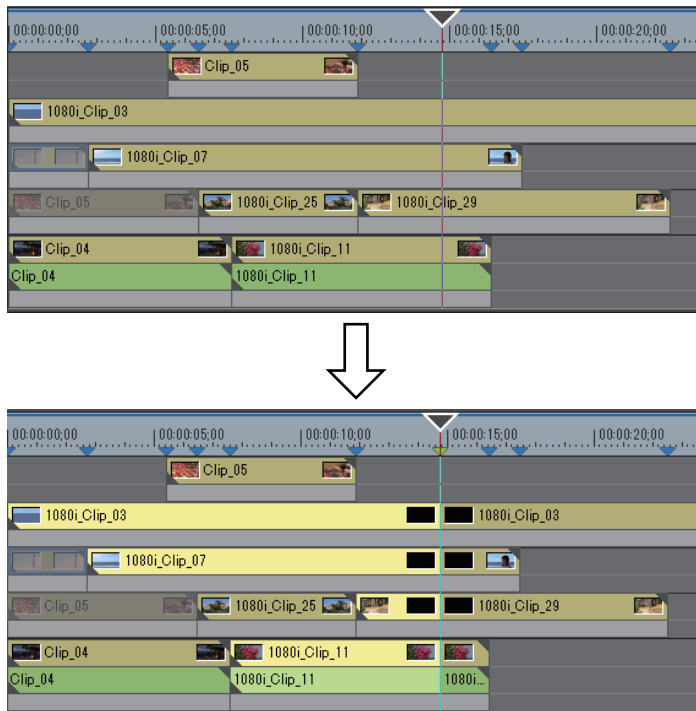
Setting the Camera Switch Point

Set the camera switch point as the trigger to switch cameras.

1 Move the timeline cursor to the position to set the camera switch point.

2 Right-click the time scale, and click [Add Cut Point/Clear Cut Point (Toggle)].

The camera switch point is set at the timeline cursor position, and a cut point is added to the clip on the switch point.




Repeat steps 1 and 2, to set the camera switch point. The enable/disable setting of clips to use can be set by switching the selected camera.

Switching the Selected Camera ▶ P308

Clip Enable/Disable ▶ P243

 **Alternative**

- Double-click the time scale at the position to set the camera switch point.
- Double-click the camera video of each track.
- Setting camera switch point: [0]

-  • The same operations can also be performed during playback.

Setting the Camera Switch Point during Playback

You can set the camera switch point during playback. Playback operations are the same as in the standard mode. The following explains operations in the divided screen in the multicam mode. When display of only the selected camera in the single mode has been set, operate using the numerical keypad on the keyboard.

Multicam Editing by Shortcut Keys ▶ P309

- 1 Move the timeline cursor to the position to start playback.**

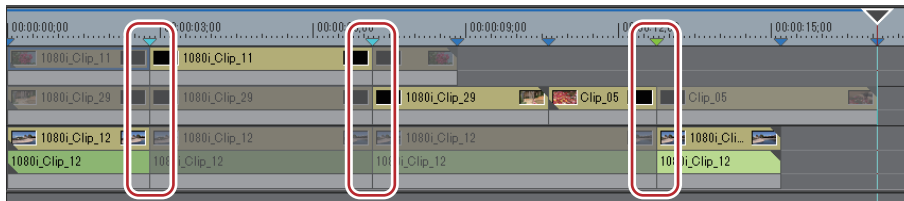
2 Click the camera video of the clip to be enabled first.



3 Click [Play] on the Recorder.

4 Click the camera video of the clip to be enabled at the video switching position.

The camera switch point is set to the timeline cursor position. When playback stops, a cut point is added to the clip on the camera switch point.



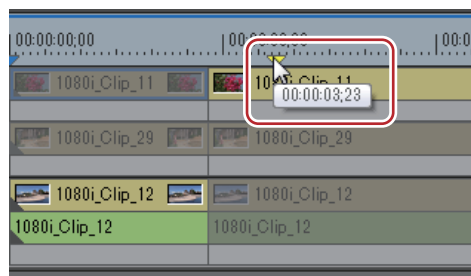
- Any camera switch point which is placed between the first up to the playback stop point is deleted.
- When setting the camera switch point during playback, you can set not to delete the camera switch points that playback has passed through. Click [Mode] on the menu bar, and click [Overwrite Cut Point] to uncheck the item.

Moving Camera Switch Points

You can delete camera switch points.

1 Drag the camera switch point.

Selected camera switch points are displayed in light blue.



During dragging, the images of the previous and next frames of the camera switch point are displayed on the camera of the respective track on the Recorder.

Alternative

- Click the clip boundary, and perform a slide trim.

Trimming Operation Methods ▶ P270

- Place the mouse cursor on the Recorder with [Shift] on the keyboard held down, and rotate the mouse wheel. The master at the position of the camera switch point being moved and the video of each track are displayed on the Recorder. Check the video, and release [Shift] at the position to place the camera switch point to place the point at the move destination.

- ☞ • If you have moved through other camera switch points, the camera switch points in between are deleted.
 - Move the camera switch point set to the Out point of a clip to trim the clip.

Deleting Camera Switch Points

You can delete camera switch points.

- 1 Move the timeline cursor to a camera switch point to delete.
- 2 Right-click the time scale, and click [Add Cut Point/Clear Cut Point (Toggle)].

The camera switch point is deleted, and clips are merged. The enable/disable settings of clips when a camera switch point is deleted are dependent on the previous clip.

The camera switch point cannot be deleted when the camera switch point set to the In and Out points of a clip which has no margin.

☞ **Alternative**

- Right-click the camera switch point to delete, and click [Add Cut Point/Clear Cut Point (Toggle)].
- Double-click the camera switch point.
- ☞ • To delete all camera switch points on the time scale, right-click the time scale, and click [Delete All Cut Points].
- To delete camera switch points between the In and Out points on the timeline, right-click the time scale, and click [Delete Cut Points between In/Out].

Switching the Selected Camera

You can change the clips to acquire after setting the camera switch points.

The following explains operations in the divided screen in the multicam mode. When display of only the selected camera in the single mode has been set, operate using the numerical keypad on the keyboard.

Multicam Editing by Shortcut Keys ▶ P309

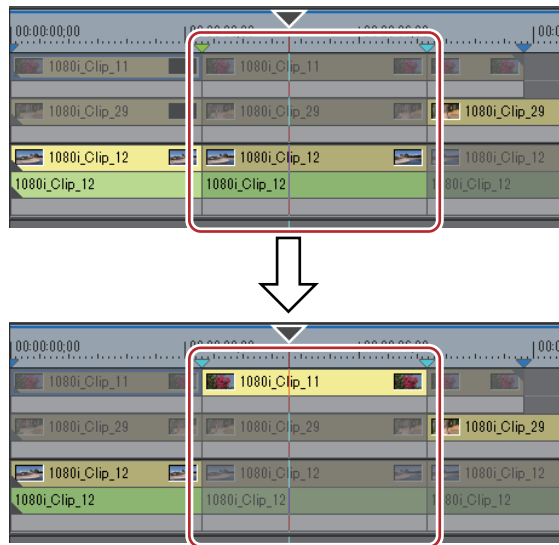
- 1 Move the timeline cursor on the clip to switch the selected camera while the timeline is stopped.
- 2 Click the camera video to set as the selected camera from among the camera videos of each track.



The clips of the selected camera are enabled, and others are disabled.

Example:

When switching the selected camera of the clip at the timeline cursor position from [C1] to [C3]



- When the timeline cursor is moved over the clip to switch the selected camera, and the camera video of each track currently displayed on the Recorder is double-clicked, the camera switch point can be set and the selected camera can be switched at the same time.

Multicam Editing by Shortcut Keys

You can set the camera switch point and selected the camera using the numeric keypad. When only the selected camera is displayed in the single mode, perform multicam editing using shortcut keys. The following shows shortcut key operations and camera numbers assigned to each key.

Camera No.	Corresponding Numeric Keypad Operation
1	[1]
2	[2]
3	[3]
4	[4]
5	[5]
6	[6]
7	[7]
8	[8]
9	[9]
10	[Alt] + [0]
11	[Alt] + [1]
12	[Alt] + [2]
13	[Alt] + [3]
14	[Alt] + [4]
15	[Alt] + [5]
16	[Alt] + [6]

Switching the Selected Camera Simultaneously with Setting of the Camera Switch Point

- 1 Move the timeline cursor to the point to switch the camera.

- 2 Press the numeric keypad corresponding to the camera to switch to with [Ctrl] on the keyboard held down.

Switching the Selected Camera Simultaneously with Setting of the Camera Switch Point during Playback

- 1 Play back the timeline, and press the numeric keypad corresponding to the camera selected at the time of switching.

The camera switch point is set to the timeline cursor, and the camera video is switched.

Switching the Selected Camera

- 1 Move the timeline cursor over the clip to switch the selected camera.
- 2 Press the numeric keypad corresponding to the camera to switch to.

Playing Back around the Camera Switch Point

You can playback around a camera switch point to confirm the video. You can also confirm video in the same way by regular playback operation.

- 1 Click the [Play the Current Area] list button on the Recorder.



- 2 Click the playback method.

[Play around Cut Point]	Play back around the camera switch point which is nearest and placed before the timeline cursor.
[Play around Cut Point (1 Sec)]	Play back around for the specified length.
[Play around Cut Point (2 Sec)]	
[Play around Cut Point (3 Sec)]	
[Play around Cut Point - Show only Selected Camera]	Display only videos of the selected camera. Play back around the camera switch point which is nearest and placed before the timeline cursor.
[Play around Cut Point (1 Sec) - Show only Selected Camera]	Display only videos of the selected camera. Play back around for the specified length.
[Play around Cut Point (2 Sec) - Show only Selected Camera]	
[Play around Cut Point (3 Sec) - Show only Selected Camera]	

You can repeatedly play back around the camera switch point.

- You can set the preliminary operation time (Preroll) at [Preview] in [User Settings] → [Playback].
[Playback] ▶ P93
- You cannot set the camera switch point while playing around a camera switch point. Set the camera switch point by regular playback operation.
Setting the Camera Switch Point during Playback ▶ P306

Grouping Multiple Clips All Together onto a Single Track

Copying Only the Selected Clips to Track

Group together the clips of the selected camera and copy them to one track. Extract enabled clips from the track where the camera is assigned, and copy them to the specified track.

1 Click [Mode] on the menu bar, and click [Compress to a Single Track].

The [Compress selected clips] dialog box appears.

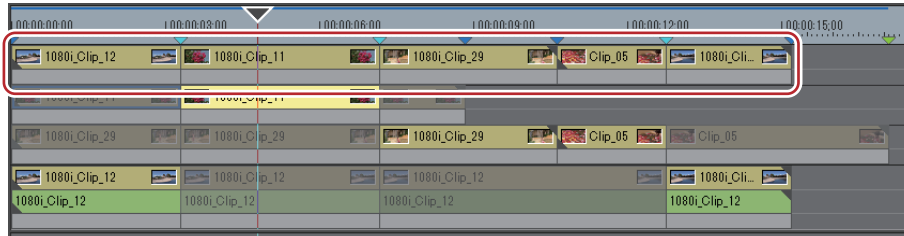
2 Select the tracks to copy the selected clips from the [Select output track] list.

You can select from V/VA tracks not assigned a camera on the timeline and from new V/VA tracks.

Check [Apply between In/Out] to acquire selected clips between In and Out points on the timeline.

3 Click [OK].

Selected clips are copied to the specified track. When other clips are already placed on the specified part, select whether to overwrite clips.



- If multiple enabled clips are placed between the camera switch points, priority is given to the camera point with the larger number.

Proxy Editing

Editing by Proxy Files

In this mode, proxy data that has been optimized for editing, for example, by lowering image quality from the original high-resolution data is used. You can proceed with editing more effortlessly since the load placed on the CPU during editing can be lightened.

When only the proxy or source including the proxy has been checked out for checkout field editing, the project automatically opens in the proxy mode.

Field Editing Projects on Another PC ▶ P63

Switching to the Proxy Mode

1 Click [Mode] on the menu bar, and click [Proxy Mode].

When the proxy mode is set to on, a frame appears on the button icon in the menu, and “proxy mode” is displayed on the status bar of the timeline.

A diagonal line appears on the button icon when the mode is off.

By default, when the mode is switched to the proxy mode, a proxy is generated in the background for all clips in use by the current project. The proxy is named “clip name .proxy including extension”, and is saved in the same directory as the source file.

The setting to prevent a proxy from being automatically generated can be changed by [Application] in [User Settings] → [Proxy Mode].

Proxy Mode Settings

 ▶ P91

In the proxy mode, clips reference the proxy. When the proxy has been moved to a different directory, the clip becomes an offline clip.



- The default proxy mode setting is off.
- If the proxy cannot be saved to the same directory as the source file when the proxy is generated, it will be saved to the “Transferred” folder under the project folder.
- When the mode is switched to the proxy mode, clips that already have a proxy use that proxy and a new proxy is not generated.
- The proxy mode can be simply switched to by displaying the [Proxy Mode] operation button on the timeline or mode bar.

Operation Button Settings ▶ P119

Creating Proxy Files

Create a proxy from clips (high-resolution) in the bin or on the timeline.



Note

- Proxies of the following clips cannot be created:
 - Clips other than video clips
 - Still image clips
 - Title clips
 - Clips already containing a proxy
 - Clips with a bitrate smaller than the proxy
 - Clips with alpha channel
 - Clips with a frame rate other than 23.98 fps/24 fps/25 fps/29.97 fps/30 fps/50 fps/59.94 fps/60 fps
 - Clips with an audio sampling rate other than 48000 Hz, 44100 Hz and 32000 Hz
 - Partially transferred clips



- A proxy file can be set to be automatically generated at capture. Set [Proxy File] to [Hires and Proxy files] at [Input H/W, Format Settings] in the device preset used for capture.

[Input H/W, Format Settings] Screen ▶ P107

1 Click [File] on the menu bar, and click [Create Proxy] → an item.

2 Click [Yes].

Creation of the proxy is started in the background.

Checking the Progress of Background Jobs ▶ P168

The proxy is named “clip name .proxy including extension”, and is saved in the same directory as the source file. Clips are set to reference proxies.



- A proxy of any clip currently registered to the bin can be generated. Right-click the clip in the bin window, and click [Create Proxy]. The progress of generation of the proxy is displayed in the thumbnail of the proxy.
- If the proxy cannot be saved to the same directory as the source file when the proxy is generated, it will be saved to the “Transferred” folder under the project folder.

3D Editing

About the Stereoscopic Edit Mode

In the stereoscopic edit mode, stereoscopic processed video can be output to the monitor, and stereoscopic clips can be edited and exported to file by the exporter for stereoscopic editing.



- Stereoscopic clips that can be edited by EDIUS are as follows:
 - 3DA1(Panasonic)
 - MVC(Sony, Panasonic, JVC)
 - 3D P2 (Panasonic)
 - 3D clips taken by a 3D conversion lens, for example

Notes on Stereoscopic Editing

Inadequate 3D video may affect the health of viewers, so take care of output results.

According to 3D Consortium "3DC Safety Guidelines", it is recommended to avoid the situation where the disparity on the display exceeds the distance between the right and left eyes (50 mm for children).

In recent Hollywood 3D movies, the comfortable range of disparity should be shorter than approximately 2% of the screen horizontal width.

For details of safe and comfortable 3D contents creation, see 3D Consortium "3DC Safety Guidelines" (English: <http://www.3dc.gr.jp/english/index.html>).

For commercial use, inquire about supply standards to clients.

Stereoscopic Edit Workflow

The following explains the stereoscopic edit workflow.

1 Set [Stereoscopic Editing] to [ON] in the [Project Settings] (Detailed Settings) dialog box.

Changing Project Settings Temporarily to Create a New Project ▶ P38

Creating a New Project after Start-up ▶ P42

Changing Project Settings ▶ P46

[Stereoscopic Editing] is displayed on the status bar. The stereoscopic edit mode is set.

2 Set a preview window or preview device.

Setting External Devices Used for Preview ▶ P115

Displaying Preview Window in Stereoscopic Edit Mode ▶ P134

3 Import stereoscopic sources.

Capture of Stereoscopic Sources (L/R Separate Capture) ▶ P148

Importing Stereoscopic Sources ▶ P168

4 If necessary, set separate clips of the L side (for left eye) and the R side (for right eye) as stereoscopic.

Creating Stereoscopic Clips ▶ P194

5 Adjust video drift in stereoscopic clips.

Adjusting Video Drift in Stereoscopic Clips ▶ P333

Applying Video Filters to L or R Side Only ▶ P357

6 Export the project.

Exporting Stereoscopic Projects to File ▶ P440

Exporting Stereoscopic Projects to Tape ▶ P455

Exporting to Disc ▶ P446



- When the stereoscopic edit mode has been switched to the standard mode, only the L side video of stereoscopic clips is output to the monitor.
- When the stereoscopic edit mode has been switched to the standard mode, only the L side of the effects applied to the stereoscopic clip are applied. Effects applied to only the R side are invalid.

Undoing Operations/Redoing Undone Operations

Undoing Operations/Redoing Operations

Undoing Operations (Undo)

You can undo the performed operations, or return to the previous status.


- 1 Click [Undo] of the timeline.



Executed operations are undone, and the timeline cursor and the In and Out points return to their original positions.

Alternative

- Undoing operations: [Ctrl] + [Z]

-  Click the [Undo] list button to display a history of operations executed so far, and select the operation to undo. This history is saved for each individual sequence.
- Though the number of undos is basically unlimited, the history will be deleted starting with the oldest record if the system runs out of memory.

Note

- Operations and settings in the bin window cannot be undone.

Redoing Canceled Operations (Redo)

You can redo canceled operations that have been executed by undo.


- 1 Click [Redo] of the timeline.



Executed operations are undone, and the timeline cursor and In and Out points are repositioned.

Alternative

- Redoing canceled operation: [Ctrl] + [Y], [Shift] + [Ctrl] + [Z]

-  Click the [Redo] list button to display a history of operations undone so far, and select an operation to redo. This history is saved for each individual sequence.

CHAPTER 8

Applying Effects

This chapter explains how to apply various effects, including filters and transitions.

[Effect] Palette

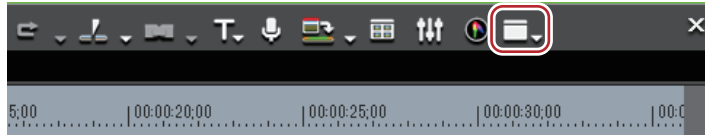
About Effects Available with EDIUS

The [Effect] palette lists the effects you can use.

Showing/Hiding [Effect] Palette

You can show or hide the [Effect] palette.

- 1 Click [Toggle Palette Display] of the timeline.



- 2 Click [Effect].

The [Effect] palette appears.

[Effect] Palette (Effect View Display) ▶ P320

[Effect] Palette (Folder View Display) ▶ P321


Alternative

- Click [View] on the menu bar, and click [Palette] → [Effect].
- The [Effect], [Information] and [Marker] palettes can be shown/hidden by clicking [View] on the menu bar and clicking [Palette] → [Show All] or [Hide All].
- Showing/hiding palette: [H]

Showing/Hiding [Effect] Palette ▶ P319

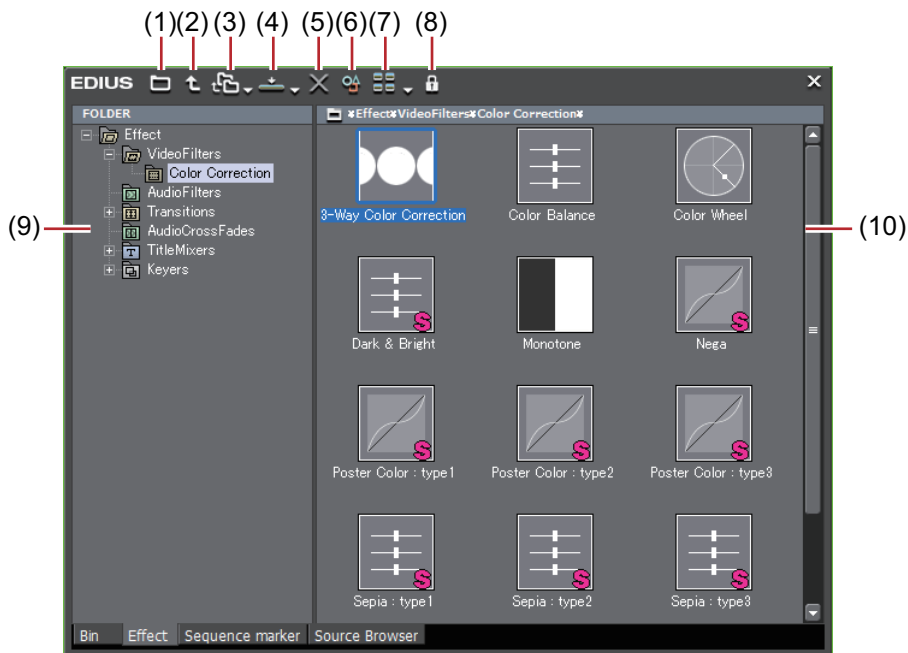
Displaying the [Clip Marker] List ▶ P276

Displaying the [Sequence Marker] List ▶ P282

-  • If you toggle the [Effect] palette display, all of the bin window, source browser window, and palette tab associated to the [Effect] palette toggle their display accordingly. To toggle the show/hide setting individually, release the association of the window and the palette.

Combining Bin Window/Source Browser Window with a Palette ▶ P117

[Effect] Palette (Effect View Display)



(1)	[Hide Effect View]	Click this button to display the folder view only.
(2)	[Move up one folder]	Display the folder in the upper level than the one selected in the folder view.
(3)	[Folder Link]	Set up the effect folders frequently used to open these folders quickly. <i>Folder Shortcuts</i> ▶ P362
(4)	[Add to Timeline]	Add the selected effect to a clip on the timeline. Click the [Add to Timeline] list button and you can also select the position to add.
(5)	[Delete]	Delete the user preset effect. <i>Deleting Effects from [Effect] Palette</i> ▶ P361
(6)	[Property]	Display the contents of the selected effect. <i>Properties of Effects</i> ▶ P322
(7)	[View]	Each click changes the display. Click the [View] list button to select the display method.
(8)	[lock]	Lock the effect folder to prevent the folder structure from being changed. <i>Folder Structure of [Effect] Palette</i> ▶ P362
(9)	Folder view	Display the effect folder in tree structure.
(10)	Effect view	Display the contents of effects in the selected folder. Select the effect with animation to display with animation.

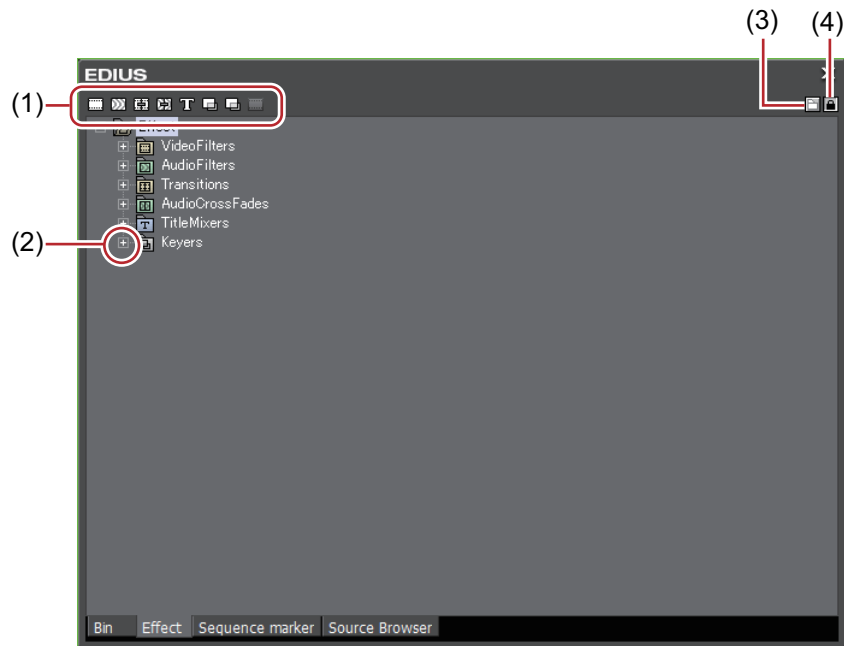
Showing/Hiding Effect View

You can show or hide the effect view.

1 Click [Hide Effect View] in the [Effect] palette.

The effect view is hidden.

[Effect] Palette (Folder View Display)



(1)	Folder shortcut	Click the button of each folder to expand and display the folder specified for the shortcut. To expand multiple folders at the same time, press and hold [Ctrl] on the keyboard, and click the folder shortcut. Folder Shortcuts ▶ P362
(2)	Tree	Click to display the selected folder to display the effects contained in it.
(3)	[Show Effect View]	Click this button to display the effect view.
(4)	[lock]	Lock the effect folder to prevent the folder structure from being changed.

Effect Types

There are 4 available effects.

Plug-in Base Effect

Base effects initially stored which cannot be deleted from the [Effect] palette. Plug-in base effects include video filter, audio filter, transition, audio cross fade, title mixer, and key.

System Preset Effect

These are initially stored and customized plug-in base effects. You cannot delete them from the [Effect] palette. “S” is displayed on their icons.



User Preset Effect

Effects registered by the user. These effects can be customized (by adjusting the parameters, combining multiple effects, or renaming) and saved. "U" is displayed on their icons.

Registering Effects to [Effect] Palette ▶ P361



Default Effect

Effects used in the default setting. You can set these effects only for transition, audio cross fade, and title mixer.

Changing Default Effects ▶ P341



Properties of Effects

You can check the effect with animation. You can also change the property of user preset effects.

1 Select an effect and click [Property] in the [Effect] palette.



The [Property] dialog box appears.

Alternative

- Right-click the effect and click [Property].

- You can check the transitions in animation by selecting an effect in the effect view.
- You can change the property of user preset effects. You can only edit the user preset effects. (Application of effects to the L or R sides cannot be changed.)

How to Apply Effects

You can apply the effect to a clip easily by simple operations such as dragging and dropping.

- For a project with the video quantization bitrate of 10 bits, the following effects can process it maintaining the 10-bit accuracy. For other effects, the project is processed in 8 bits and then converted to 10 bits.
 - Alpha composite/transparency rubber band (Layer stack without Keyer)
 - [Track Matte]
 - [Mask]
 - [Blend Filters]
 - [Combine Filters] (if a sub filter that supports 10 bits is used)
 - [Color Correction]
 - [Block Color]
 - [Blur]
 - [Smooth Blur]
 - [Select channel]
 - [Sharpness]
 - [Transition]
 - [TitleMixers]

For 10 bit non-compatible effects, the "!" icon is displayed on the [Effect] and [Information] palettes.

- The effects that can be applied to the alpha channel are as follows:
 - [Track Matte]
 - [Mask]
 - [Blend Filters]
 - [Mirror]
 - [Combine Filters] (if a sub filter that supports alpha format is used)
 - [Color Correction]
 - [Block Color]
 - [Blur]
 - [Smooth Blur]
 - [Select channel]
 - [Sharpness]
 - [Transition]
 - [Blend]
 - [TitleMixers] (The alpha channel of the background also is supported.)

For alpha channel non-compatible effects, the “!” icon is displayed on the [Effect] and [Information] palettes.

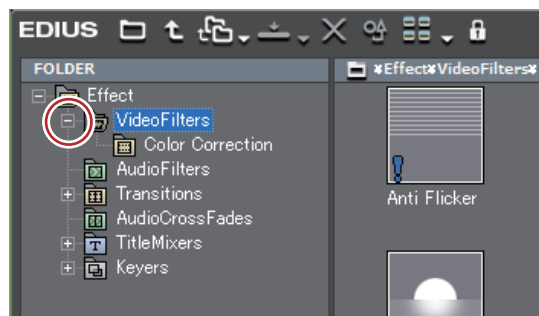
Applying with Drag-and-drop

This operation is also available in the same way in the effect view. Here, the video filter is used here to explain how to apply a filter. Transition and key can be applied in the same way.

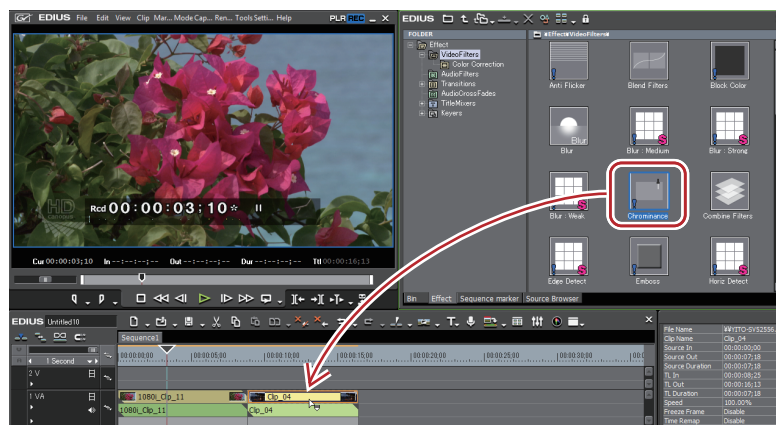
Example:

When selecting from [VideoFilters]

- 1 In the folder view of the [Effect] palette, click the [VideoFilters] tree and display the effects.



- 2 Drag and drop the effect to apply onto a clip on the timeline.



- Right-drag and drop the effect to select [Add]/[Replace]. Select [Replace] to delete the applied effects and apply only the selected effect.
- When applying a transition or audio cross fade by dragging them using the right button of the mouse, you can select [Custom] and control the placement.

Applying from Right-click Menu

This operation is also available in the same way in the effect view.

Example:

When selecting from [Video Filter]

- 1 Select a clip on the timeline.**
- 2 In the folder view of the [Effect] palette, click the [VideoFilters] tree and display the effects.**
- 3 Right-click the effect to apply and click [Add to Timeline].**

For some effects, you can specify [In], [Out], and [Both].



Alternative

- Select a clip or a mixer on the timeline, select an effect in the [Effect] palette, and click [Add to Timeline] in the effect view. For some effects, you can click the [Add to Timeline] list button to specify [In], [Out], and [Both].
- Select a clip or mixer on the timeline, and drag an effect from the [Effect] palette and drop it onto the [Information] palette. Some effects cannot be applied.



- When applying a clip transition or audio cross fade, you can specify the position to apply, including [In], [Out] and [Both], as well as [From], [Center] and [To] for each effect.

Setting Effects

Applying Effects to Entire Clip

You can use filters for the whole clip, to adjust image quality (such as color and brightness) or edit audio.

Adjusting Color/Brightness (Color Correction)

You can adjust the color tone to match the previous/next video, or adjust the brightness by correcting color cast, highlight detail loss, and shadow detail loss. The following filters are provided for color correction.

[3-Way Color Correction]

Correct colors for shadow (black), intermediate (gray), and highlight (white).

Adjusting 3-Way Color Collection ▶ P326

[YUV Curve]

Adjust luminance (Y), blue color difference (U), and red color difference (V) on the chart. You can make a fine adjustment to balance the shadow and highlight.

Keys can be added for the YUV curve but interpolation animation between keys is not available.

Adjusting the YUV Curve ▶ P327

[Color Balance]

Adjust chroma, luminance, contrast, and color tone with the slider.

Adjusting Color Balance ▶ P330

[Color Wheel]

Move the pointer to adjust the color density, or rotate the wheel to adjust the color tone.

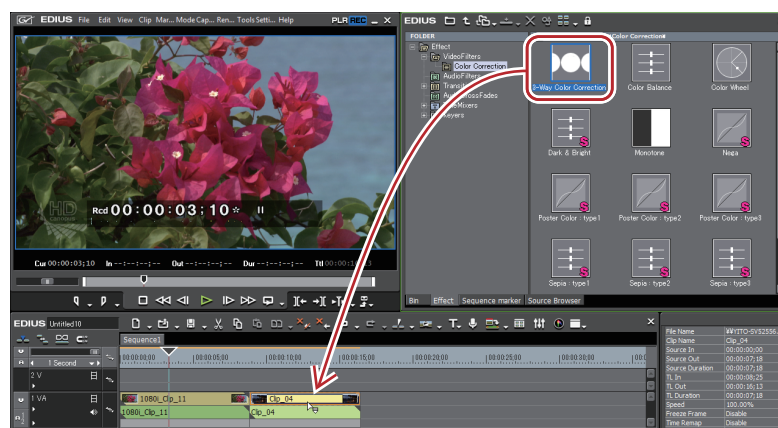
Adjusting Color Wheel ▶ P331

[Monotone]

Make the video monotone.

Adjusting Monotone ▶ P332

- 1 In the folder view of the [Effect] palette, click the [VideoFilters] tree.
- 2 Click the [Color Correction] tree to display filters.
- 3 Drag and drop the filter to use to the clip on the timeline.



Alternative

- Select the clip on the timeline, right-click the filter in the [Effect] palette, and click [Add to Timeline].
- Right-drag an effect and drop it to the clip, and click [Add] or [Replace].

Adjusting 3-Way Color Collection

1 Display the [Information] palette, and double-click [3-Way Color Correction].

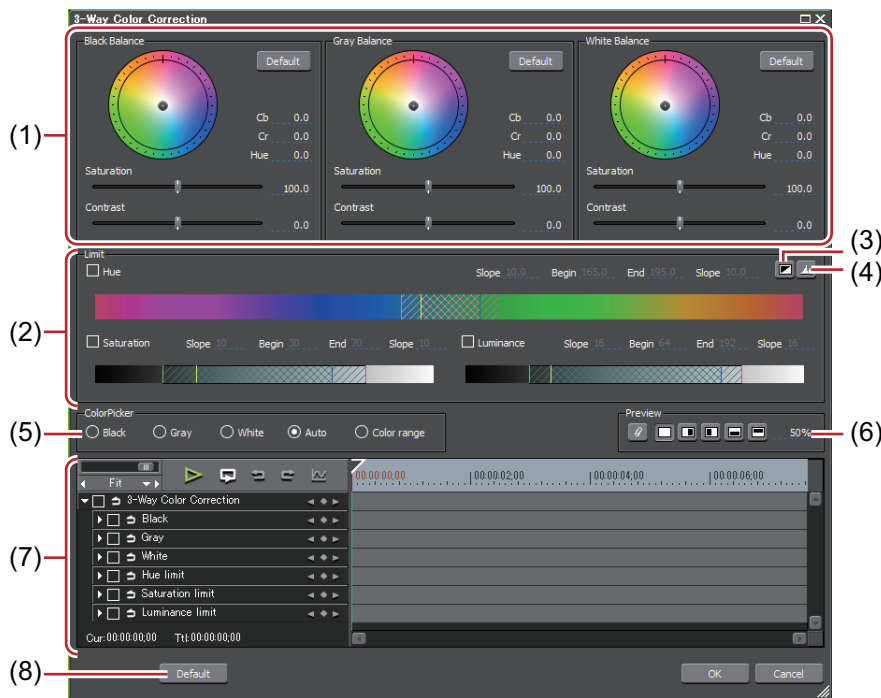
Checking/Adjusting Effects ▶ P354

The [3-Way Color Correction] dialog box appears.

[3-Way Color Correction] Dialog Box ▶ P326

2 Adjust the balance of each color and click [OK].

[3-Way Color Correction] Dialog Box



(1)	[Black Balance]/ [Gray Balance]/ [White Balance]	Drag a point in each color to correct colors for shadow (black balance), intermediate (gray balance), and highlight (white balance). Drag the point of color wheel to adjust the hue, or move the slider to adjust saturation and contrast.
(2)	[Limit]	Correct colors in the specified range. Check [Hue], [Saturation], and [Luminance] to specify the range to adjust. You can set the effect range by entering a value directly in each field or dragging the triangle slider, or grating/slant parts. <div data-bbox="836 1554 1129 1742" style="text-align: center;"> </div> <p>A: Range to apply 100% adjustment B: Range where you increase the adjustment volume gradually C: Range where you decrease the adjustment volume gradually</p>
(3)	[Key display]	View which range is applied with the effects by setting [Limit]. The area with the effects applied 100% is displayed in white; 0% in black.
(4)	[Histogram display]	Display a calculated histogram for each of hue, saturation, and luminance.
(5)	[ColorPicker]	Select a color from the displayed image on the Player or the Recorder.
(6)	Preview setting	<i>Preview setting</i> ▶ P328

(7)	Key frame setting	<i>Key frame setting</i> ► P329
(8)	[Default]	Click [Default] in each balance frame to reset only the parameters related to that balance to their default values. Click [Default] at the bottom of the window to delete all keys and restore the default settings for all the parameters.

Adjusting Colors Entirely

1 Display the [Information] palette, and double-click [3-Way Color Correction].

The [3-Way Color Correction] dialog box appears.

[3-Way Color Correction] Dialog Box ► P326

2 Click the color to correct from Color Picker.

When you click [Black], an adjustment is made so that the color obtained in the color picker should be black. Similarly, an adjustment is made so that it should be gray or white when you select [Gray] or [White], respectively.

If you click [Auto], the color is determined based on the brightness of the obtained color. For example, the color is adjusted for white when a bright color is obtained.

3 Click the part to correct in Recorder.

The color is automatically corrected. You can also adjust the color by using the color wheel point, or the sliders of saturation and contrast.

Example:

When correcting a color-casted white table

Click [White] in Color Picker, and click a point on the table in the image.

Correcting Only One Part

You can define the range to apply the correction, when adjusting the color tone of skin.

1 Display the [Information] palette, and double-click [3-Way Color Correction].

The [3-Way Color Correction] dialog box appears.

[3-Way Color Correction] Dialog Box ► P326

2 Click [Color range] in Color Picker.

3 Click the part to correct in Recorder.

Click additional points with [Shift] on the keyboard held down to include the color of the points to the currently specified range.

4 Correct the color.

Adjusting the YUV Curve

1 Display the [Information] palette, and double-click [YUV Curve].

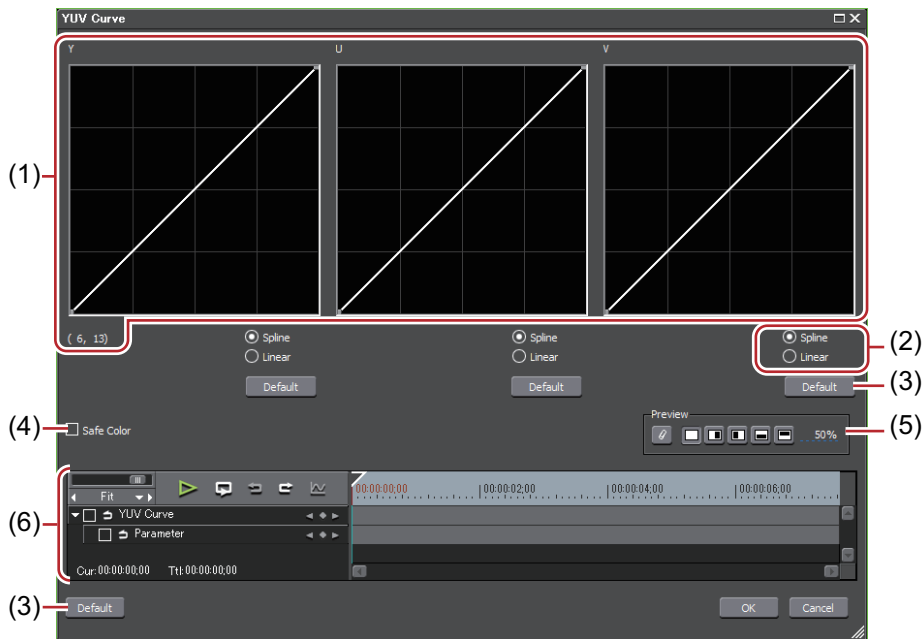
Checking/Adjusting Effects ► P354

The [YUV Curve] dialog box appears.

[YUV Curve] Dialog Box ► P328

2 Adjust the YUV curve and click [OK].

[YUV Curve] Dialog Box



(1)	YUV curve	Drag the line on each chart to adjust Y, U, and V. The value on the bottom left of the Y curve indicates the input value and output value.
(2)	[Spline]/[Linear]	Select the line of the chart (curve or straight).
(3)	[Default]	Click [Default] of each chart to restore the defaults for each Y, U, and V value and add them as the keys. Click [Default] at the bottom of the window to delete all the keys and reset the chart to its initial values.
(4)	[Safe Color]	Check this item to make an automatic adjustment to keep the video signal within the YUV color space.
(5)	Preview setting	<i>Preview setting</i> ▶ P328
(6)	Key frame setting	Adjust the YUV curve chart for each key frame. The field option for the key will be [Hold], and no change along the time axis is allowed. For how to set a key frame, see “Key frame setting”. <i>Key frame setting</i> ▶ P329

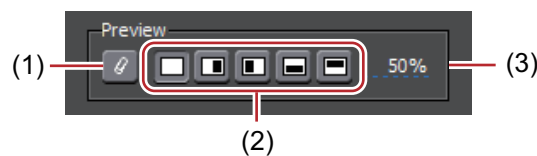


- Although Safe Color clips a range of luminance 16-235 and chroma 16-240, and the chroma is not automatically included in the safe area, it is calculated to include luminance/chroma within IRE0-100.

Common Settings in Color Correction

Preview setting

You can lay and compare the image applied color correction and the original image.

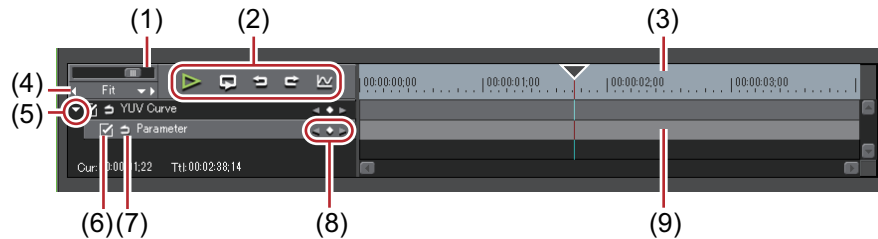


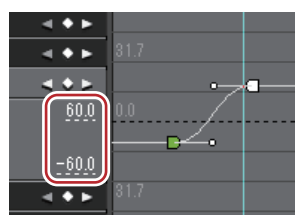
(1)	[Use current screen to show filter effect]	Fix the screen with the timeline cursor position when comparing filter effects.
(2)	Check the filter effects	Set the segmentation of the screen when checking the result of the filter.


(3)	Filter apply screen ratio	Set the screen ratio to display the video with the filter applied when comparing the result of the filter.
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Key frame setting

You can change the parameters of color correction along the time axis, and play it to check the result.



(1)	Timeline controller	Drag the slider to the left and right to adjust the time scale display unit. Move the slider to the left to reduce the display unit, or to the right to increase it. The right end is [Fit].
(2)	Playback/Tool buttons	<p> : Play back the timeline on the Recorder.</p> <p> : Repeatedly play back the clip currently being edited.</p> <p> : Undo an operation.</p> <p>[Ctrl] + [Z]</p> <p> : Redo the undone operation.</p> <p>[Ctrl] + [Y]</p> <p> : Switch the changes of each parameter to the chart view. In the chart view, the timeline is represented by a chart display of the selected key. The parameters can be edited by moving the keys up and down. The numerical values and gradations of the Y axis can be changed by entering numerical values.</p> 
(3)	Time scale for key frame	Display a scale with the unit selected in the time scale setting on the timeline. Right-click the time scale and click [Timeline Timecode] to display the timecode of the timeline or click [Zero base Timecode] to display the timecode with the beginning of the clip as 0. If a sequence marker is set for the position where the clip is placed, right-click the time scale and click [Go to Previous Sequence Marker] or [Go To Next Sequence marker] to move the timeline cursor to the previous or next sequence marker.
(4)	Time scale settings	Click here to toggle the specified display unit and [Fit]. Click the left arrow to reduce the display unit, or click the right arrow to increase the display unit.
(5)	Expand button	Click this button to configure detailed settings for each item. You can edit the parameters by moving the cursor to a value input or control and dragging it when the mouse cursor shape changes.
(6)	Enable/Disable	Unchecking the item disables the parameter settings. To configure a key frame, check the effect name.
(7)	[Add default key]	Click this item to set the default key frames of each parameter item at the timeline cursor position.

(8)	Key frame setting	Click  in the center to set a key frame on the position of the timeline cursor. If the timeline cursor is on the key frame, the key will be deleted. Click the left and right arrow to move to the previous and next key frame.
(9)	Key frame timeline	Automatically add a key frame when you edit an effect at the timeline cursor. If you expand each parameter item, you can edit the parameter by dragging key upward or downward.

- Right-click the timeline for key or key frame to display a menu to add/delete keys or switch the method of interpolation between key frames. You can select the interpolation method from [Hold], [Line], and [Bezier].
- When the item name of a parameter is right-clicked and [Clear parameter of (item)] is clicked, all key frames for that item are deleted.
- When [Shift] + [V] on the keyboard are pressed, a key frame is added to all parameters with a valid key frame setting at the timeline cursor position.
- When [V] on the keyboard is pressed, a key frame is added to the currently selected parameter at the timeline cursor position.

Adjusting Color Balance

1 Display the [Information] palette, and double-click [Color Balance].

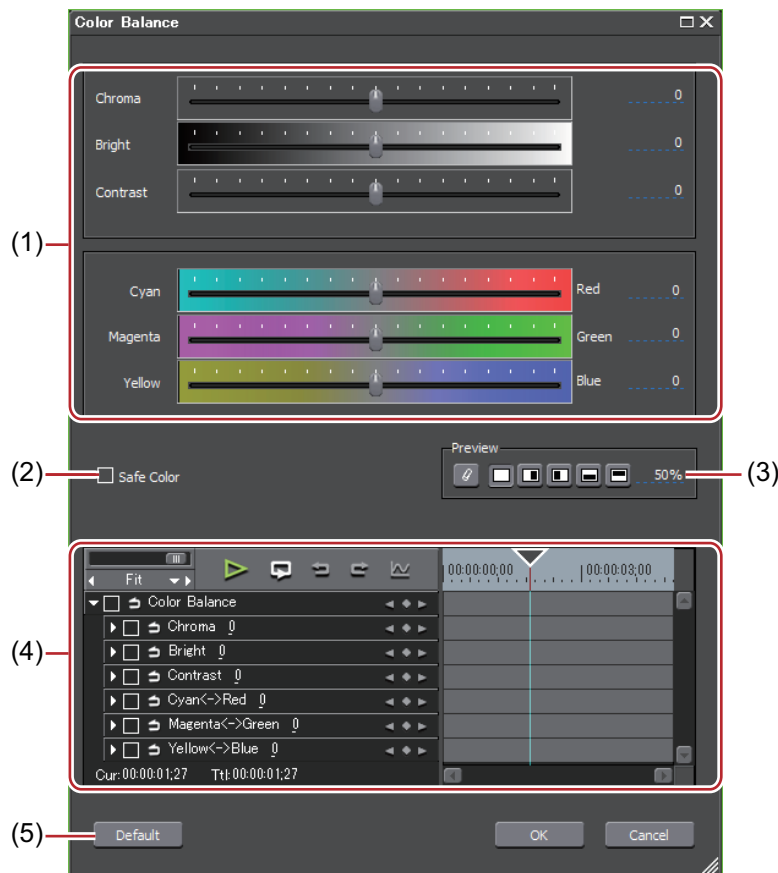
Checking/Adjusting Effects ▶ P354

The [Color Balance] dialog box appears.

[Color Balance] Dialog Box ▶ P330


2 Adjust the color balance and click [OK].

[Color Balance] Dialog Box



(1)	Sliders	Move the slider to adjust each item.
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(2)	[Safe Color]	Check this item to make an automatic adjustment to keep the video signal within the YUV color space.
(3)	Preview setting	<i>Preview setting</i> ▶ P328
(4)	Key frame setting	<i>Key frame setting</i> ▶ P329
(5)	[Default]	Click this button to restore the default settings for all the sliders.

-  • Although Safe Color clips a range of luminance 16-235 and chroma 16-240, and the chroma is not automatically included in the safe area, it is calculated to include luminance/chroma within IRE0-100.

Adjusting Color Wheel

1 Display the [Information] palette, and double-click [Color Wheel].

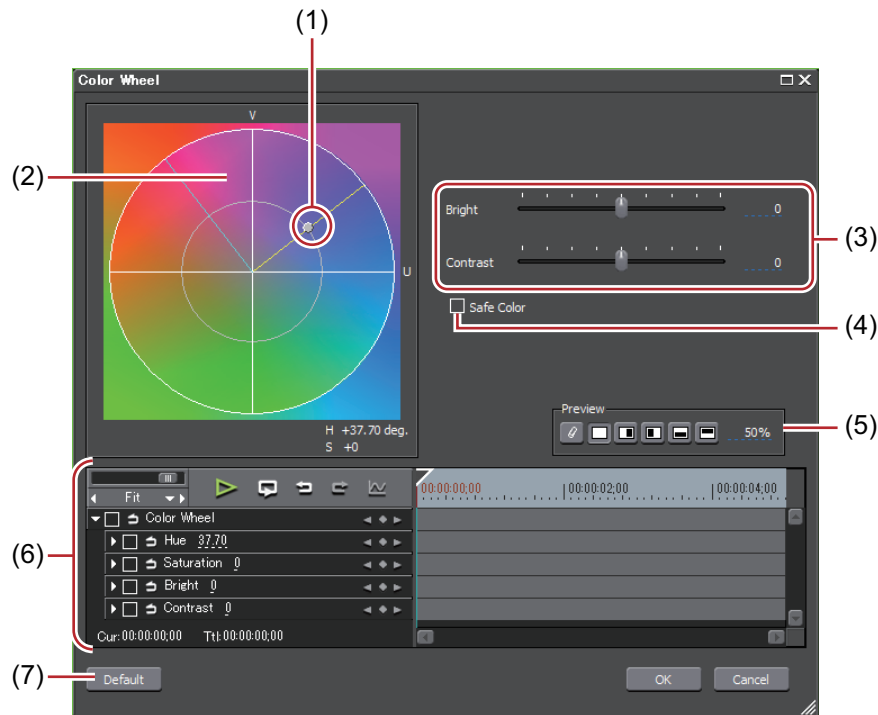
Checking/Adjusting Effects ▶ P354

The [Color Wheel] dialog box appears.

[Color Wheel] Dialog Box ▶ P331

2 Adjust the color wheel and click [OK].

[Color Wheel] Dialog Box



(1)	Color wheel point	Slide this point to adjust the color density (chroma). Chroma increases as the point moves to the outline of the circle.
(2)	Wheel	Drag and rotate it to adjust the color tone.
(3)	[Bright]/[Contrast]	Adjust the luminance and contrast by moving the sliders.
(4)	[Safe Color]	Check this item to make an automatic adjustment to keep the video signal within the YUV color space.
(5)	Preview setting	<i>Preview setting</i> ▶ P328
(6)	Key frame setting	<i>Key frame setting</i> ▶ P329
(7)	[Default]	Click this button to delete all the keys and restore the default settings for the wheel and color wheel point.

- Although Safe Color clips a range of luminance 16-235 and chroma 16-240, and the chroma is not automatically included in the safe area, it is calculated to include luminance/chroma within IRE0-100.

Adjusting Monotone

1 Display the [Information] palette, and double-click [Monotone].

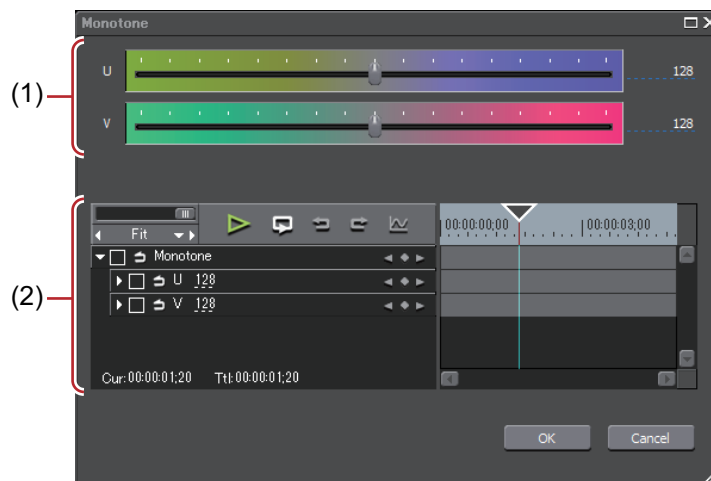
Checking/Adjusting Effects ▶ P354

The [Monotone] dialog box appears.

[Monotone] Dialog Box ▶ P332

2 Adjust the monotone and click [OK].

[Monotone] Dialog Box



(1)	Sliders	Adjust the color tone by moving the slider.
(2)	Key frame setting	<i>Key frame setting</i> ▶ P329

Video Filter

You can add such effects as reducing flicker or make the image stereoscopic like a lithograph to the whole video.

1 In the folder view of the [Effect] palette, click the [VideoFilters] tree and display the filters.

Check the filter details in the description in the property, or by trying to apply the filter.

2 Drag and drop the filter to use to the clip on the timeline.

Alternative

- Select a clip on the timeline. Select an effect in the [Effect] palette, and click [Add to Timeline].
- Select a clip on the timeline. Right-click an effect in the [Effect] palette, and click [Add to Timeline].
- Select an effect in the [Effect] palette, and right-drag it to the clip on the timeline, and click [Add] or [Replace].

Audio Filter

You can make such adjustment to audio part as reducing noise or emphasizing human voice.

1 In the folder view of the [Effect] palette, click [AudioFilters] and display the filters.

Check the filter details in the description in the property, or by trying to apply the filter.

2 Drag and drop the filter to use to the clip on the timeline.

Alternative

- Select a clip on the timeline. Select an effect in the [Effect] palette, and click [Add to Timeline].
- Select a clip on the timeline. Right-click an effect in the [Effect] palette, and click [Add to Timeline].
- Select an effect in the [Effect] palette, and right-drag it to the clip on the timeline, and click [Add] or [Replace].

Correcting the Camera Shake

[Stabilizer]

Correct the camera shake by image processing.

1 In the folder view of the [Effect] palette, click the [Video Filter] tree and display the filters.

2 Drag and drop [Stabilizer] to the clip on the timeline.

Analysis of the video motion of the clip starts in the background.

[Background Job] ▶ P91



Alternative

- Select a clip on the timeline. Select [Stabilizer] in the [Effect] palette, and click [Add to Timeline].
- Select a clip on the timeline. Right-click [Stabilizer] in the [Effect] palette, and click [Add to Timeline].
- Select [Stabilizer] in the [Effect] palette, right-drag it to the clip on the timeline, and click [Add] or [Replace].

3 Play back a clip to check the video.

For the part where analysis is completed, the camera shake correction is performed on the spot during playback. Change the camera correction setting after step **4**, if necessary.

4 Display the [Information] palette, and double-click [Stabilizer].

The [Video Stabilizer] dialog box appears.

[Video Stabilizer] Dialog Box ▶ P333

5 Configure the settings and click [OK].

[Video Stabilizer] Dialog Box

<p>[Smoothness]</p>	<p>Move the slider to adjust the smoothness level of the video motion. Items set to [Off] are not corrected.</p> <p>[Translate] Adjust correction level for vertical and horizontal shake.</p> <p>[Scale] Adjust correction level for zoom-in and zoom-out shake.</p> <p>[Rotate] Adjust correction level for rotation shake.</p> <p>[Perspective] Adjust correction level for perspective shake.</p> <p>[Rolling Shutter] Adjust correction level for distortion of the rolling shutter.</p>
<p>[Auto Trimming]</p>	<p>Check this item to enlarge the video automatically in order not to make a gap at the edge of the video after correcting the video. You can also enter a value for enlargement factor.</p>
<p>[Preview]</p>	<p>Display the corrected video on the entire screen or at the left/right/upper/lower screen, and compare with the original video. Click the button to select where to display the video. You can enter a value for the ratio to display the corrected video against the entire screen.</p>

Adjusting Video Drift in Stereoscopic Clips

[Stereoscopic Adjuster]

Adjust drift between the video of the L and R sides of the stereoscopic clip.

Leave the drift only in the horizontal direction for the L side and R side videos. Adjust the video so that no drift exists in the vertical or rotation direction.

Before operation, read “Notes on Stereoscopic Editing”.

Notes on Stereoscopic Editing ► P314

1 In the folder view of the [Effect] palette, click the [Video Filter] tree and display the filters.

2 Drag and drop [Stereoscopic Adjuster] to the clip on the timeline.

Alternative

- Select a clip on the timeline. Select [Stereoscopic Adjuster] in the [Effect] palette, and click [Add to Timeline].
- Select a clip on the timeline. Right-click [Stereoscopic Adjuster] in the [Effect] palette, and click [Add to Timeline].
- Select [Stereoscopic Adjuster] in the [Effect] palette, and right-drag it to the clip on the timeline, and click [Add] or [Replace].

3 Display the [Information] palette, and double-click [Stereoscopic Adjuster].

[Stereoscopic Adjuster] appears.

[Stereoscopic Adjuster] ► P334

4 Configure the settings and click [OK].

When drift of left, right, top and bottom tilting is large, adjust by a combination of the [Rectify + FIT] and [Horizontal] settings.

Clips with stereoscopic processing applied are displayed with an orange line.

[Stereoscopic Adjuster]

[Rectify]	Drift between left-eye and right-eye video is automatically adjusted. Select the item to be used as the reference for automatic adjustment from the list. When [Rectify] is selected, the center of [Rectify left] and [Rectify right] is set.
[Fit Frame]	The trimming position where the black frame disappears when video is adjusted is automatically set.
[Horizontal]	Placement of the left-eye and right-eye video in the horizontal direction is adjusted. Click [Delete] on the keyboard to restore the default setting for the slider.
[Mask L]/[Mask R]	The left edge ([Mask L]) and right edge ([Mask R]) of the video is masked in black. Click [Delete] on the keyboard to restore the default setting for the slider.
[Auto Trimming]	Check this item to automatically adjust the scale so that the black frame that appears when video is adjusted disappears. The [Trimming] and [Fit Frame] settings are disabled.
[Trimming]	Adjust the video trimming position. Click [Delete] on the keyboard to restore the default setting for the slider.
[Flip(Left eye)]/[Flip(Right eye)]	Checking [Horizontal] inverts the video around the horizontal axis. Checking [Vertical] inverts the video around the vertical axis.
Key frame timeline	Key frame can be set to adjust video along the time axis. Key frame setting ► P329
[Initialize]	Click this button to restore the default settings for all the parameters.

Combining Multiple Filters

You can combine and set multiple video filters to one clip.

User preset effects or system preset effects are also available.

- [Mask]
- [Chrominance]
- [Combine Filters]
- [Blend Filters]

This section explains how to apply the mask filter for an example. For other filters, check the filter details in the description in the property, or by trying to apply the filter.

Mask Filter

You can apply a video filter to outside and inside of any range. You can also move the mask position in the key frame according to the video.

1 In the folder view of the [Effect] palette, click the [VideoFilters] tree and display the filters.

2 Drag and drop [Mask] to the clip on the timeline.

Alternative

- Select a clip on the timeline. Select [Mask] in the [Effect] palette, and click [Add to Timeline].
- Select a clip on the timeline. Right-click [Mask] in the [Effect] palette, and click [Add to Timeline].
- Select [Mask] in the [Effect] palette, and right-drag it to the clip on the timeline, and click [Add] or [Replace].

3 Display the [Information] palette, and double-click [Mask].

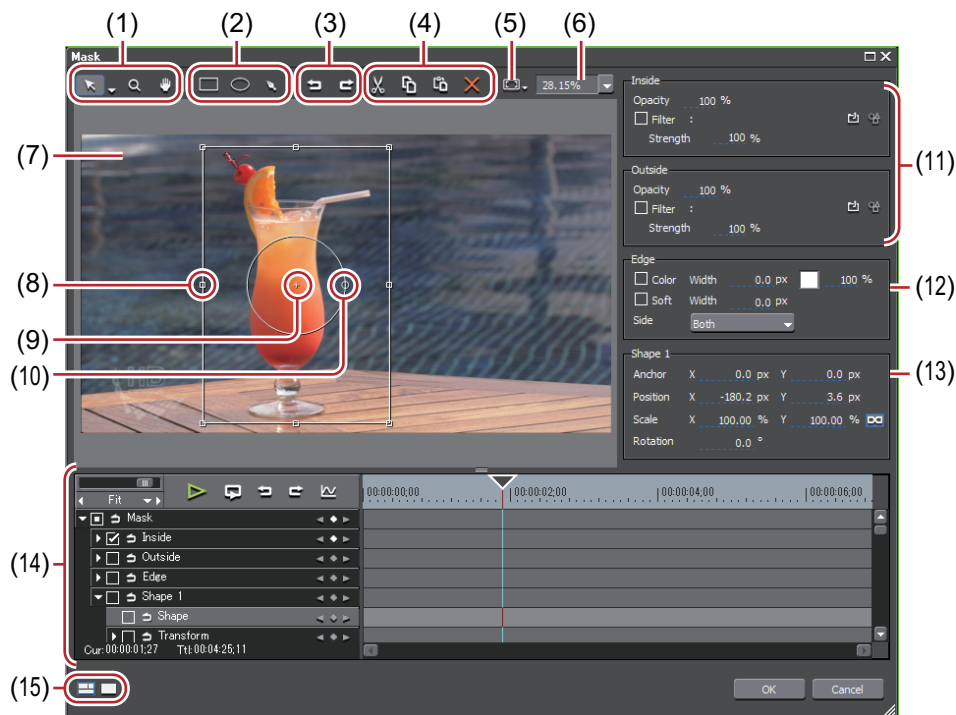
The [Mask] dialog box appears.




[Mask] Dialog Box ▶ P335








4 Configure the mask and click [OK].


Clips with the mask specified are displayed with an orange line.

[Mask] Dialog Box



(1)	Tool buttons	<p> : Click this button and select the selection tool to select and move the path, or drag the handle to enlarge/reduce or rotate the path. Click the list button and select the shape edit tool to edit the path by dragging the path vertex or the handle.</p> <p> : Drag the mouse to expand or contract screens. From the drag start point, drag to the right to expand screens, and drag to the left to contract.</p> <p> : Drag the mouse to move the display area.</p>
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(2)	Drawing buttons	 : Drag the mouse to draw a rectangle. Drag the mouse with [Shift] on the keyboard held down to draw a square.  : Drag the mouse to draw an ellipse. Drag the mouse with [Shift] on the key board held down to draw a circle.  : Draw a free shape using Bezier curve.
(3)	[Undo]/[Redo]	 : Undo an operation.  : Redo the undone operation.
(4)	Edit buttons	Cut, copy, paste, and delete a selected path.
(5)	Function menu	<p>[Apply Mask] Switch the enable/disable setting for mask temporarily.</p> <p>[Background] Switch the show/hide setting for the transparent grid if the transparency is set for outside and inside of the mask.</p> <p>[Motion Path] Switch the show/hide setting for the path if the position is changed by key frame and the setting is enabled.</p> <p>[Grid] Switch the show/hide setting for the grid.</p> <p>[Guide] Switch the show/hide setting for the underscan, overscan, title safe, horizontal/vertical center line.</p> <p>[Stereoscopic] Displayed only in the stereoscopic edit mode. The display can be switched to L side only, R side only or to the L and R sides blended.</p>
(6)	Zoom factor	Change the zoom factor by entering a value or selecting a value from the list.
(7)	Preview	Display a preview of the image being edited. Select a path to display a handle or anchor to modify the path.
(8)	Stretch handles	Move the cursor to the operation handles at the corners and at the middle of the lines to resize the area.
(9)	Anchor	Indicate the reference point of the path. This point is a reference point for the rotation center and for stretching. Drag with [Ctrl] on the keyboard held down to change the position.
(10)	Rotation handle	Move the cursor and drag the rotation handle to rotate the image.
(11)	[Inside]/[Outside]	<p>Set video filters for outside and inside the path.</p> <p>[Opacity] Use these settings to configure the transparency inside and outside of the path.</p> <p>[Filter] Check this item to enable the video filters set inside and outside the path.  : Click this button to select a video filter.  : Click this button to configure the video filter setting for outside and inside the path.</p> <p>[Strength] The strength of video filter effects can be set.</p>

(12)	[Edge]	<p>Use these settings to specify colors and blur to the path. If there are multiple paths, the edge settings are applied to all the paths. Individual setting is not allowed.</p> <p>[Color] Check this item to enable the color edge. Enter an edge width in [Width] in pixels. Click Color box to specify the edge color. <i>[Color Select] Dialog Box ▶ P193</i> Enter the edge transparency in percentage.</p> <p>[Soft] Check this item to blur the edge. Enter a blur width in [Width] in pixels.</p> <p>[Side] Apply the color and soft (blur) widths for outside and inside (or both) the path.</p>
(13)	[Shape]	<p>For the selected path, change the various settings including the position by entering a value. You can select multiple paths to change in batch. To select multiple paths, click the paths or drag the mouse with [Shift] on the keyboard held down to enclose the paths.</p> <p>[Anchor] Specify the reference position of the path. With the path center as the origin, specify the anchor position by entering values to X and Y.</p> <p>[Position] Specify the path position. With the frame center as the origin, specify where to place the anchor position by entering values to X and Y.</p> <p>[Scale] Enter a zoom factor for zoom in and out. Click  to enable or disable the fixed aspect ratio.</p> <p>[Rotation] Enter an angle to rotate the image.</p>
(14)	Key frame timeline	<p>Set a key frame to apply a movement to the mouse position. <i>Key frame setting ▶ P329</i></p>
(15)	Window layout	<p>Toggle the window layouts between [Normal], [Preview], and [Multi]. Select [Preview] to hide the parameters and key frame timeline to enlarge the preview. Select [Multi] for a multi-monitor view. * [Multi] option is not displayed for a single monitor system.</p>



- You can resize the [Mask] dialog box by moving the cursor to a corner or an edge of the dialog box and dragging the mouse when the cursor shape changes. You can also click [Maximize] to maximize the window size.
- Move the cursor to the bottom of the preview window and drag the mouse when the cursor shape change to adjust the display area.
- Right-click the preview to display a menu to select a tool or change the zoom factor. Right-click and click [Zoom] → [Fit] to fit the frame to the preview window. When you move the frame using the pan tool, right-click the frame and click [Centering] to place the frame to the center.
- When the selected path or anchor is dragged while [Shift] on the keyboard held down, it can be moved limiting to X or Y axis.
- Double-click the preview to add a key frame on the timeline cursor position when the parameter of the key frame setting is enabled.

Adding Effects between Clips

The following explains the transition and audio cross fade between clips.

Margin of Clip

The margin of the clip is the video outside the range between In and Out points. Black triangular mark at both ends of the clip means the top (end) of each clip.

When both clips have no margin



When there is a margin at the end of front clip and at the beginning of back clip



In the extend mode, to add transition/audio cross fade between two clips, both clips need margins. If there is no margin, switch to the fix mode or create margins by trimming or other operations.

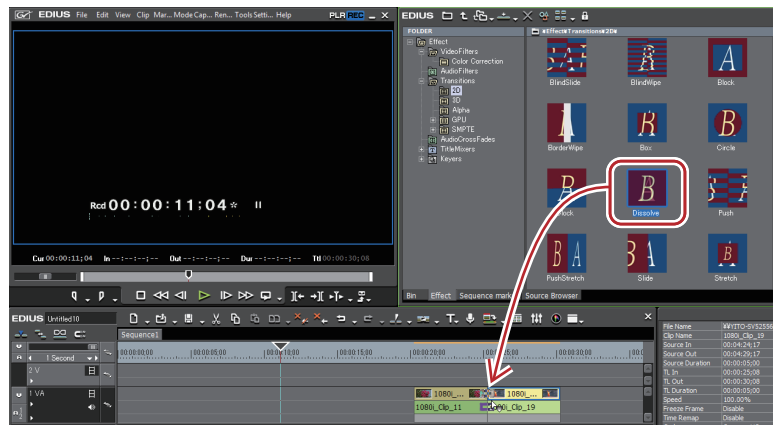
Extend/Fix mode ▶ P222

Trimming Clips ▶ P264

Clip Transition

You can add a transition between 2 clips.

- 1 Select a transition in the [Effect] palette, and drag and drop it to the joint of clips.




The timeline display changes as shown below. The default audio cross fade is simultaneously added.

Changing Default Effects ▶ P341



Alternative

- Select a clip on the timeline and select a transition from the [Effect] palette. Click the [Add to Timeline] list button and click an item. If you click [Add to Timeline] instead of the list button, the transition is applied to both the In and Out points of the selected clip.
- Select a clip on the timeline. In the [Effect] palette, right-click a transition, and click [Add to Timeline] → an item.
- Select a transition in the [Effect] palette, right-drag it to the clip on the timeline, and click [Add] or [Replace]. Click [Custom] to specify the duration and the position at which the transition is applied.

-  By [Application] in [User Settings] → [Timeline], you can set so that the default audio cross fade should not be applied when the transition is applied.

[Timeline] ▶ P90

- In the extend mode, the clip border after setting the transition is displayed as a green line (cut point).
- **Setting the Extend Mode** ▶ P222
- A clip transition on the timeline can be applied to the joint of other clips by dragging and dropping.

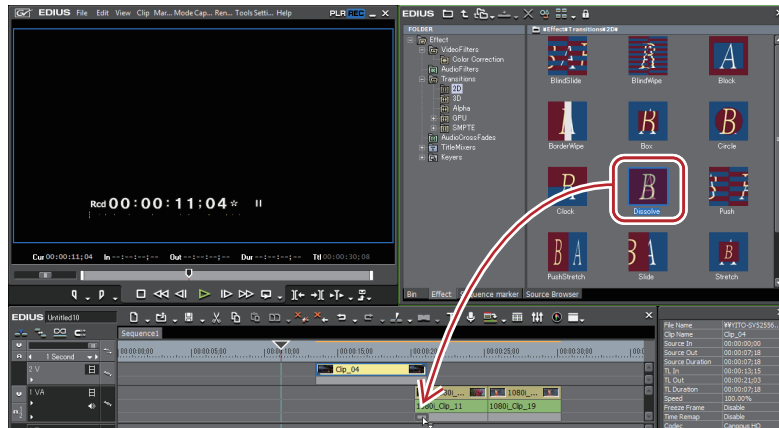
- Use the GPU of your PC to apply more complex and high-quality GPUfx transitions. If the [GPU] folder is not displayed, view the error information by [Effect] in [System Settings] → [GPUfx].

[GPUfx] ▶ P87

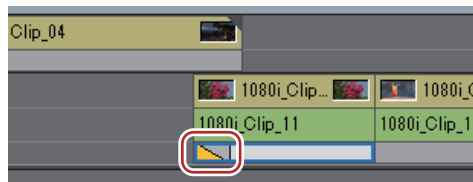
Track Transition

You can apply a transition to a video in the part where the video moves to another clip on another track.

- 1 Select a transition in the [Effect] palette, and drag and drop it to the mixer of clips.



The effect is applied at the beginning (or the end) of the clip.



Alternative

- Select a mixer of the clip on the timeline, and select a transition in the [Effect] palette. Click the [Add to Timeline] list button and click an item. If you click [Add to Timeline] instead of the list button, the transition is applied to both the In and Out points of the selected clip.
- Select a mixer of the clip on the timeline. In the [Effect] palette, right-click a transition, and click [Add to Timeline] → an item.
- Select a transition in the [Effect] palette and right-drag it to the mixer of the clip on the timeline, and click [Add] or [Replace]. Click [Custom] to specify the duration and the position at which the transition is applied.

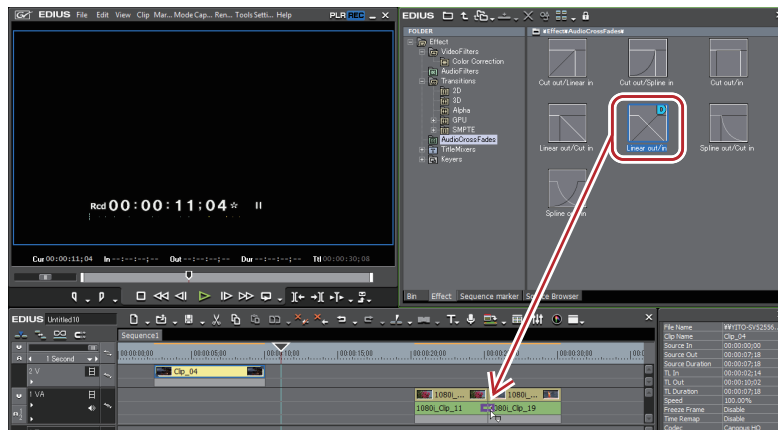


- A track transition on the timeline can be applied to other mixer areas by dragging and dropping the mixer area.

Audio Cross Fade

You can add an audio cross fade between 2 clips.

1 Select an audio cross fade in the [Effect] palette, and drag and drop it to the joint of clips.



The timeline display changes as shown below.



Alternative

- Select a clip on the timeline, and select an audio cross fade from the [Effect] palette. Click the [Add to Timeline] list button and click an item. If you click [Add to Timeline] instead of the list button, the audio cross fade is applied to both the In and Out points of the selected clip.
- Select a clip on the timeline. In the [Effect] palette, right-click an audio cross fade, and click [Add to Timeline] → an item.
- Select an audio cross fade in the [Effect] palette, right-drag it to the clip on the timeline, and click [Add] or [Replace]. Click [Custom] to specify the duration and the position at which the audio cross fade is applied.

- You can set the default transition not to be applied, when applying audio cross fade.
 - [Timeline] ▶ P90**
 - In the extend mode, the clip border after setting the audio cross fade is displayed as a green line (cut point).
 - Setting the Extend Mode ▶ P222**
 - An audio cross fade on the timeline can be applied to the joint of other clips by dragging and dropping.

Applying Default Effects

You can easily add effects by selecting clips on the timeline and clicking the button. In this case, effects set as default are applied.

The default effects are set as shown below.

Transition: Dissolve

Audio cross fade: Linear → linear

Title mixer: Fade

- 1 Move the timeline cursor to the point to apply the effect.**
- 2 Click [Set Default Transition] of the timeline.**



The effect is applied to the position on the timeline cursor.

Select a clip and click the [Set Default Transition] list button to select the position where you apply the effect.

Alternative

- Default effect settings: [Ctrl] + [P]

Changing Default Effects

You can change transition, audio cross fade, or title mixer, to be applied by default.

- 1 Right-click an effect to set as default in the [Effect] palette, and click [Set as Default Effect].
“D” s displayed on the icons of effect set as default.

Changing Effect Duration

You can change the duration of an effect.

Durations of the transition and audio cross fade on the timeline can be changed by trimming.

Trimming Clips ► P264

Changing Duration of Effect

You can set the default value for duration when applying transition or audio cross fade.

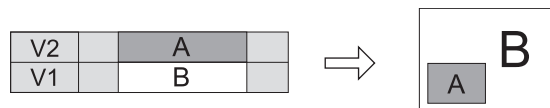
- 1 Right-click in the [Effect] palette, select [Duration] and click an effect.
- 2 Enter a duration and click [OK].

Compositing Video

You can composite multiple video by overlaying.



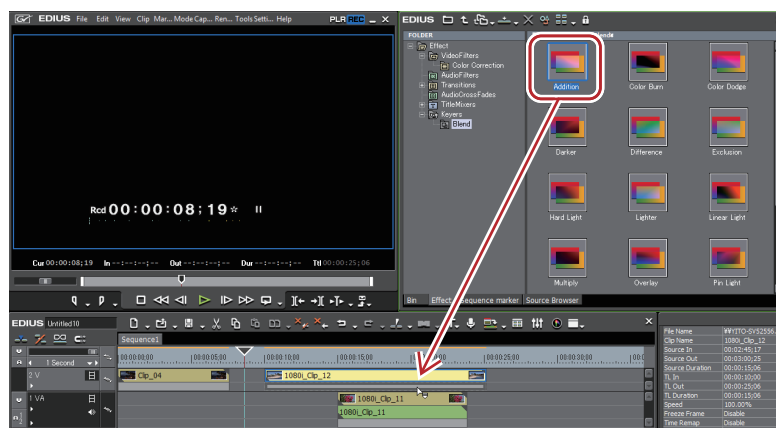
- When you composite videos, the videos are displayed in the order of the alignment on the track. Overlay the track with the video to apply the composition (A) on the track with the video to be the background (B).



Blend

You can composite 2 video.

- 1 In the folder view of the [Effect] palette, click the [Keyers] tree.
- 2 Click the [Blend] tree, and drag and drop the composition to be applied on the mixer area of the clip.



Check the composition details in the description in the property, or by trying to apply the composition. Clips with key effects applied are displayed with an orange line.



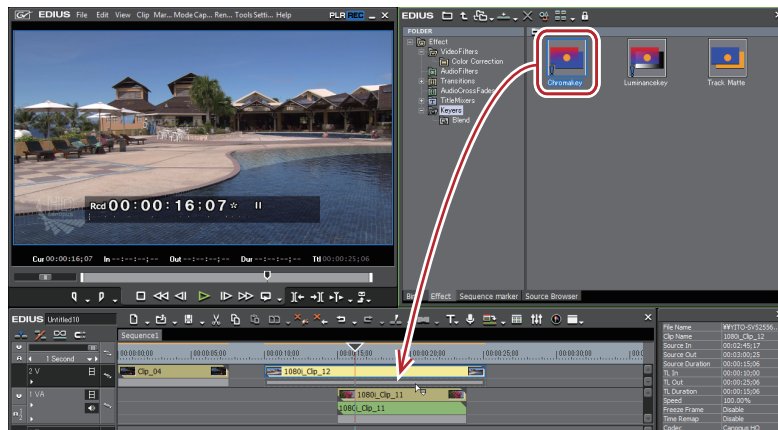
 **Alternative**

- Select a mixer of the clip on the timeline. Select an effect in the [Effect] palette, and click [Add to Timeline].
- Select a mixer of the clip on the timeline. Right-click an effect in the [Effect] palette, and click [Add to Timeline].
- Select an effect in the [Effect] palette and right-drag it to the mixer of the clip on the timeline, and click [Add] or [Replace]

Key

You can overlay a video onto another, and display the lower video through the upper video. The keys include [Chromakey] to transmit specific color and [Luminancekey] to transmit specific brightness.

- 1 In the folder view of the [Effect] palette, click the [Keys] tree.
- 2 Drag and drop [Chromakey] ([Luminancekey]) onto the mixer area of the clip.



Clips with key effects applied are displayed with an orange line.

 **Alternative**

- Select a mixer of the clip on the timeline. Select an effect in the [Effect] palette, and click [Add to Timeline].
- Select a mixer of the clip on the timeline. Right-click an effect in the [Effect] palette, and click [Add to Timeline].
- Select an effect in the [Effect] palette and right-drag it to the mixer of the clip on the timeline, and click [Add] or [Replace]

Key Settings

- 1 Click the mixer area of the clip with the key applied and display the [Information] palette. *Showing/Hiding [Information] Palette* ▶ P353

- 2 Click [Chromakey] ([Luminancekey]) and click [Open Setup Dialog].

The [Chromakey] ([Luminancekey]) dialog box appears.

[Chromakey] Dialog Box ▶ P343

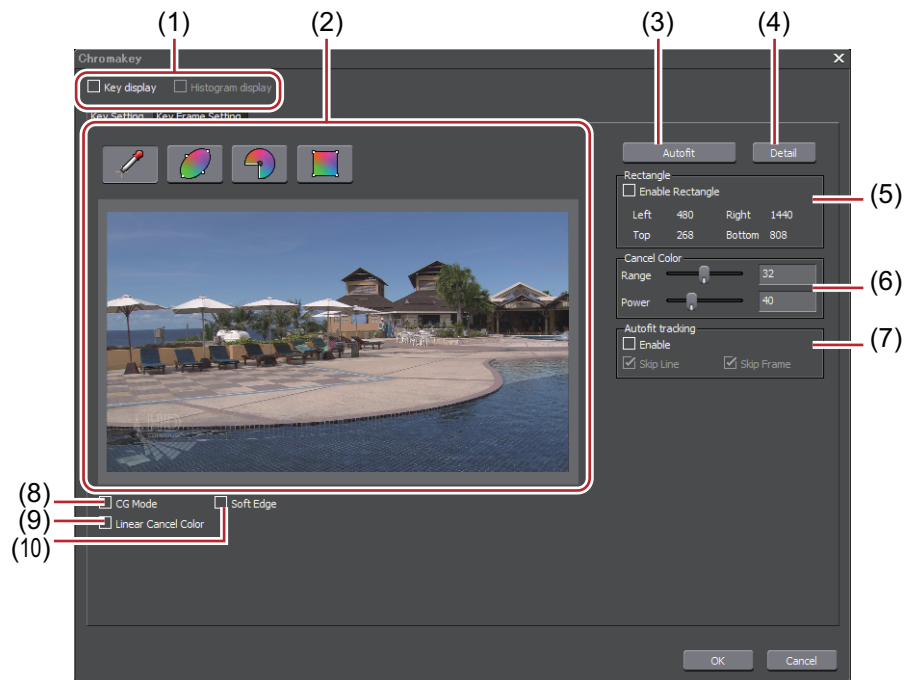
[Luminancekey] Dialog Box ▶ P345

 **Alternative**

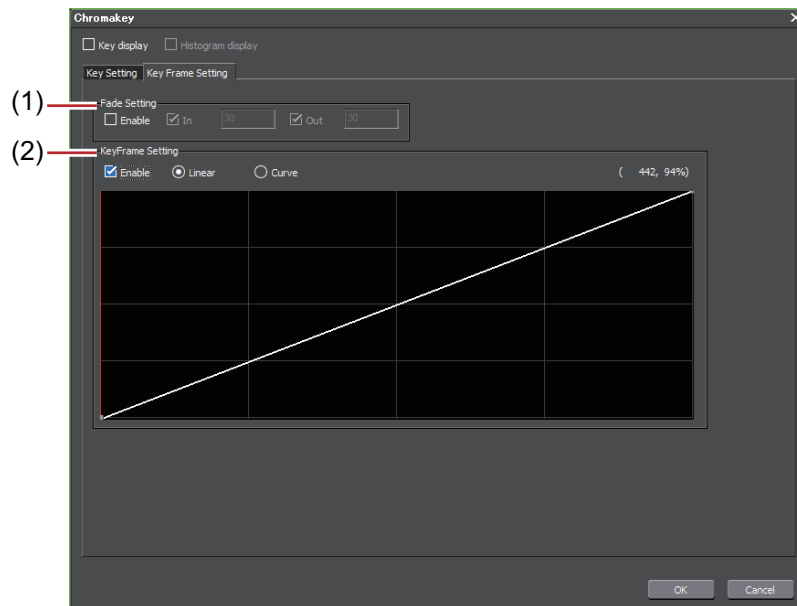
- Double-click [Chromakey] ([Luminancekey]) in the [Information] palette.
- Drag and drop [Chromakey] ([Luminancekey]) in the [Information] palette onto [Open Setup Dialog].
- Right-click [Chromakey] ([Luminancekey]) in the [Information] palette and click [Open Setup Dialog].

- 3 Configure the settings and click [OK].

[Chromakey] Dialog Box

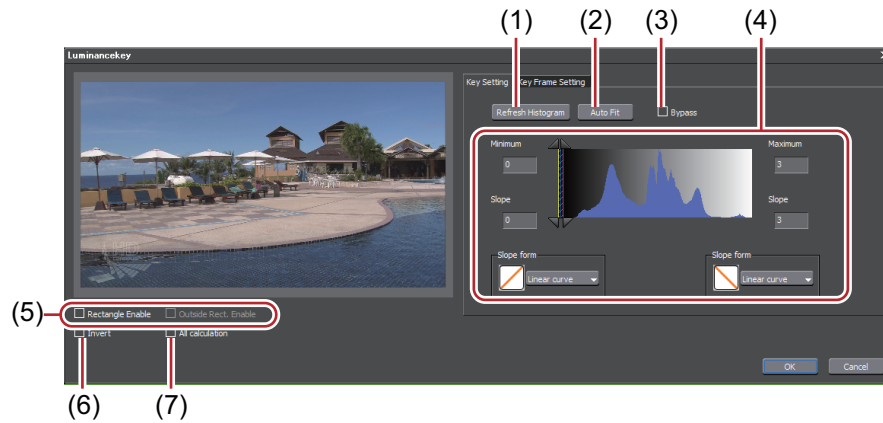


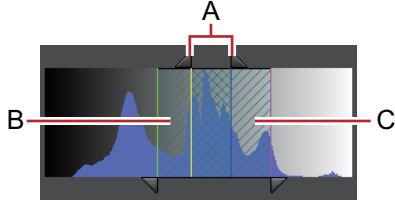
(1)	Display switching	Check [Key display] to display a part available to cut out in black. Check [Histogram display] to display the histogram.
(2)	Color selection	Select a color to transmit from the window. You can select a color (key color) to transmit by 4 methods.
(3)	[Auto Fit]	Click this button to automatically define keyer settings appropriate for the selected key color.
(4)	[Detail]	Define the detailed keyer settings.
(5)	[Rectangle]	Apply chromakey to a particular range.
(6)	[Cancel Color]	Add the key color and its opposite color onto the border part where the key color and other colors are bounded so that a natural composite image can be created.
(7)	[Autofit tracking]	Check [Enable] to adjust the key color variation automatically.
(8)	[CG mode]	Check this item to set the parameter for CG.
(9)	[Linear Cancel Color]	Check this item to resolve the bleeding of the blue screen or green screen or the discoloration by reflections.
(10)	[Soft Edge]	Check this item to blur the border of the background image and overlaid image.

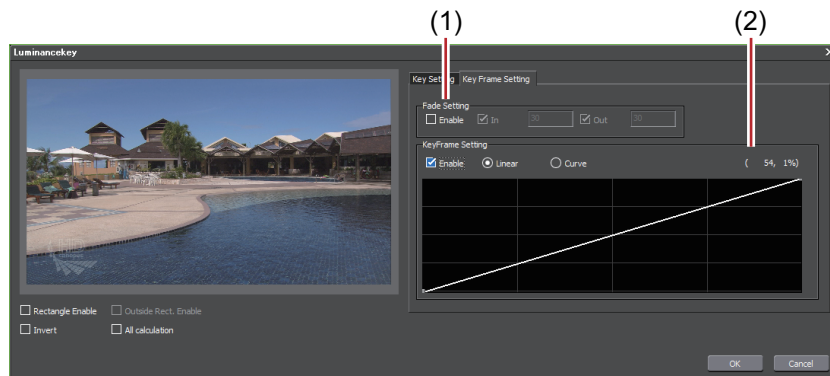


(1)	[Fade Setting]	Check [Enable] to add fade effects to In and Out of the area applied with chromakey. Duration can be set to each of In and Out.
(2)	[KeyFrame Setting]	Check [Enable] to increase or decrease the effect of chromakey. Click the line to add key frame, and drag the point to set. Field option can be set from either linear or curve.

[Luminancekey] Dialog Box



(1)	[Refresh Histogram]	Click this button to refresh the histogram.
(2)	[Auto Fit]	Click this button to automatically define keyer settings appropriate for the selected key color.
(3)	[Bypass]	Switch the image applied with the luminancekey and the original image.
(4)	Setting range to apply	<p>Set the range to apply by entering a value directly in each field or dragging the triangle slider, or grating/slant parts.</p>  <p>A: Range to apply 100% B: Range to increase the effect of luminancekey gradually C: Range to decrease the effect of luminancekey gradually Select the form to show increase or decrease of the effect in range B and C (slope).</p>
(5)	[Rectangle Enable]	Set the range to set the luminancekey. The area outside the range becomes all transparent and the track image below is displayed through. Select [Outside Rect. Enable] to apply the luminancekey only within the range.
(6)	[Invert]	Invert the range with the luminancekey applied.
(7)	[All calculation]	Check this item to calculate all the area including the range specified with the [Rectangle Enable] settings.

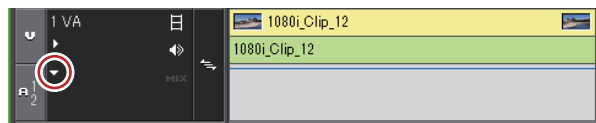


(1)	[Fade Setting]	Check [Enable] to add fade effects to In and Out of the area applied with luminancekey. Duration can be set to each of In and Out.
(2)	[KeyFrame Setting]	Check [Enable] to increase or decrease the effect of luminancekey. Click the line to add key frame, and drag the point to set. Set either linear or curve.

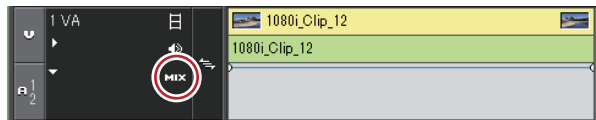
Transparency

You can overlay a video onto another, and transmit the upper video to display lower video, by changing the transparency of one of the videos.

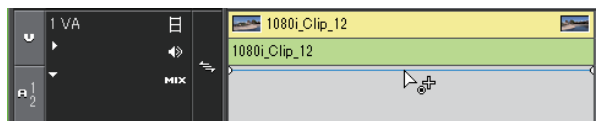
- 1 Click the expand button of the mixer of the track panel where the clip whose transparency is to be changed is placed.



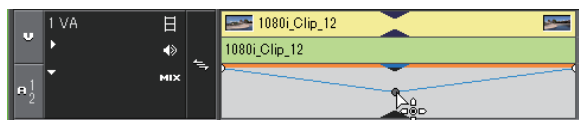
- 2 Click [Mixer].



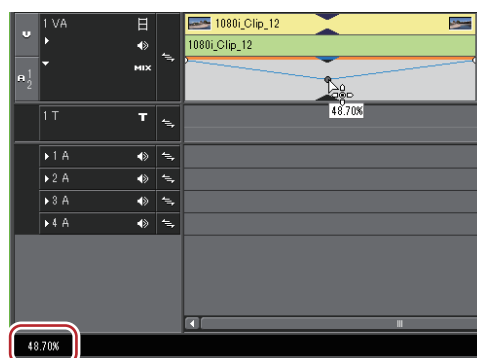
- 3 Click the rubber band to set the key frame.



- 4 Drag up and down to adjust the transparency.



The transparency is displayed on lower left on the timeline. The video becomes completely transparent when the transparency is 0%.



Clips with transparency applied are displayed with an orange line.



- To finely adjust the rubber band, drag it with [Ctrl] on the keyboard held down.
- To change the whole rubber band, drag the line while pressing [Shift] key of the keyboard.

- The operation procedure to adjust or delete the key frame with value entry is the same as in the audio rubber band.

Adjusting by Entering Values ▶ P401

Initializing/Deleting Rubber Band Points ▶ P401

[Fade In]/[Fade Out]

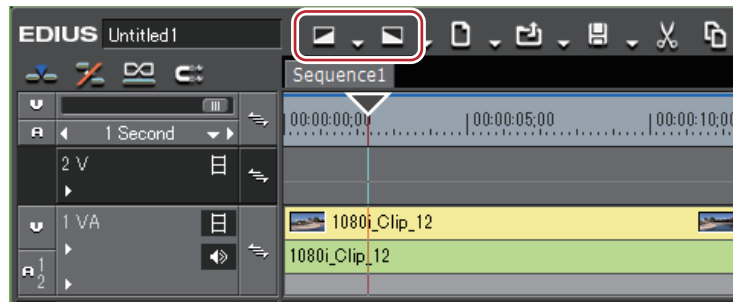
You can set [Fade In] to make the video appear gradually, or [Fade Out] to make the video disappear gradually.

1 Select a clip to set fade in/fade out.

You can select multiple clips on separate tracks.

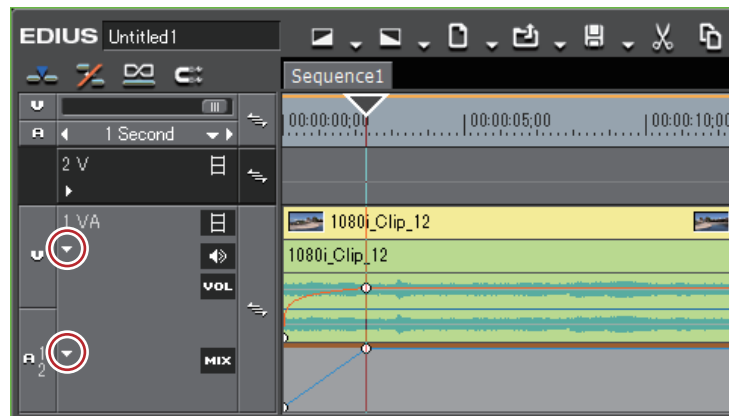
2 Move the timeline cursor to the end position of the fade in effect (or the start position of the fade out effect).

3 Click [Fade In] or [Fade Out] on the timeline.



The mixer area with [Fade In] or [Fade Out] applied is displayed with an orange line.

You can check the settings of the audio and video parts by clicking [Audio] and [Mixer] on the track panel. A key frame is added to the position to which [Fade In] or [Fade Out] is set.



- To delete the [Fade In] or [Fade Out] effect, delete both the audio part and the video parts.
 - To delete the video part, select and right-click a clip, and click [Delete Parts] → [Mixer] → [Transparency].
 - To delete the audio part, select and right-click a clip, then click [Delete Parts] → [Audio Rubber Band] → [Volume].



Note

- [Fade In] or [Fade Out] is not shown in the default setting. Define the setting to display the button on the timeline in advance.

Operation Button Settings ▶ P119

Setting Fade-in/Fade-out to Video or Audio Parts Individually

You can set fade in or fade out effects to the video or audio parts individually.

1 Select a clip to set fade in/fade out.

You can select multiple clips on separate tracks.

2 Move the timeline cursor to the end position of the fade in effect (or the start position of the fade out effect).

3 Click the [Fade In] or [Fade Out] list button on the timeline.



4 Click [Video clip only] or [Audio clip only].

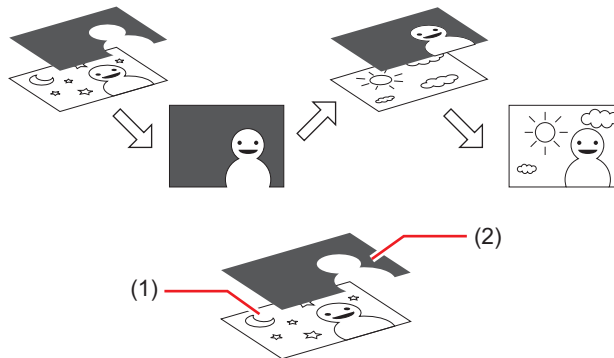
Alternative

- Release the link mode and specify fade in/fade out.

Group/Link Mode ▶ P221

Alpha Channel

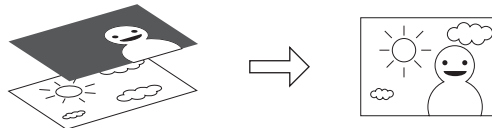
You can add a clip with transparency information as an alpha channel (data area with transparency information) of another clip. The effect makes the image to look like being masked, and you can overlay the image onto the image to be the background.



(1) This is the image to be added with the alpha channel. It is called "Fill".

(2) This is the image to be added to the "Fill" as the alpha channel. It is called "Key".

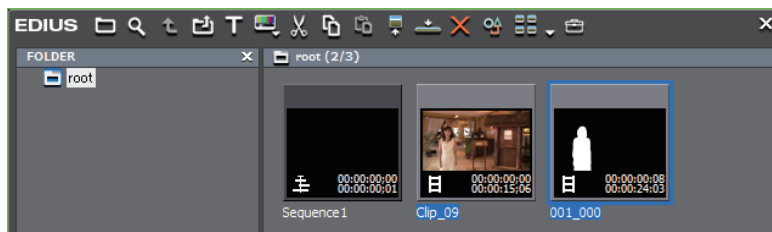
You can apply the clip to be the "Key" like a mask as the alpha channel of "Fill". Overlay the created clip to an image to be the background to composite the clip.



Note

- The function is not supported when "Fill" and "Key" have differences in the following items. (The aspect ratio and field order can be checked from the [Information] palette.)
 - Image size
 - Frame rate
 - Aspect ratio
 - Field order (Except for the combinations of top field first/progressive and bottom field first/progressive. The combination of top field first/bottom field first is not supported.)
 - Clip with no duration defined

1 Register clips to be "Fill" or "Key" to the bin.



2 Select 2 clips in the bin.

3 Right-click the 2 clips, and click [Convert] → [Alpha matte].

The [Save As] dialog box appears.

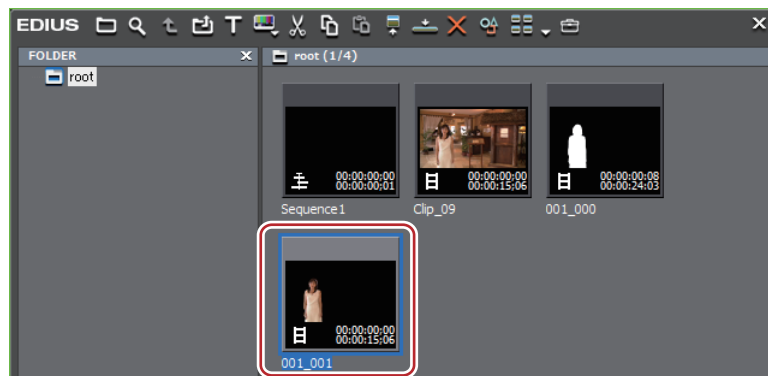
4 Set the file type, convert format, or “Fill” and “Key” assignment.

[Save as type]	Specify a codec. The available file format differs depending on the specification (HD/SD) and other factors.
[Fill Key(F)]	Specify which image to be “Fill” (or “Key”) from the 2 images.
[Convert format]	<p>Specify which element of the clip selected as “Key” to be applied as the alpha channel.</p> <p>[Alpha matte] Select this item when the clip selected as “Key” includes an alpha channel, and the alpha channel is applied as the alpha channel for “Fill”.</p> <p>[Alpha matte (invert)] Select this item when the clip selected as “Key” includes an alpha channel, and the alpha channel is inverted and applied to the alpha channel for “Fill”.</p> <p>[Luminance matte] Select this item when applying the luminance lever (0% to 100%) of the clip selected as “Key” is applied to the alpha channel for “Fill”. Luminance level 100% is transparency 100%.</p> <p>[Luminance matte (invert)] Select this item when applying the luminance lever (0% to 100%) of the clip selected as “Key” is applied to the alpha channel for “Fill”. Luminance level 0% is transparency 100%.</p>
[Repeat last frame]	Check this item to complement by repeating the last frame in “Key” clip (or the alpha channel), when the duration of the “Fill” clip is shorter than that of “Key” clip.

5 Click [Save].

Click [Cancel] to cancel the saving procedure.

The created clip is automatically registered in the bin window when saving is completed.



6 Composite the clips by laying them on the timeline.



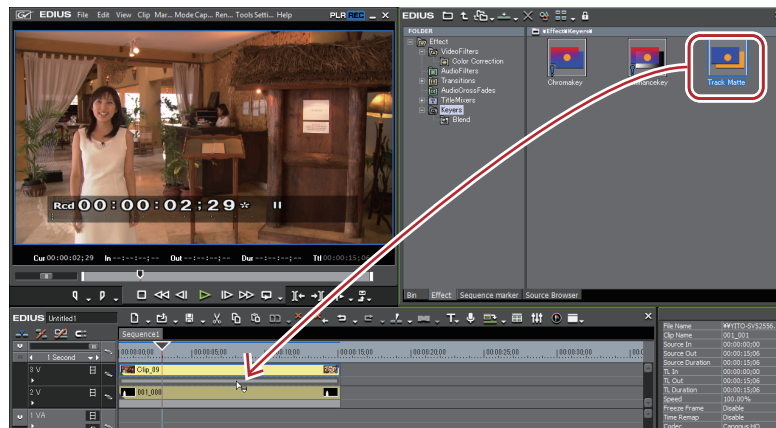
[Track Matte]

Generate alpha (transparency information) from the clip placed on the timeline as a matte clip, and multiply it by alpha of the clip placed as a source clip. In addition, you can place it overlaying the background image.



- 1 Place a clip to use as a matte clip on a track.
- 2 Place a clip to use as a source clip on a track on the matte clip.
- 3 In the folder view of the [Effect] palette, click the [Keyers] tree.

4 Drag and drop [Track Matte] to the mixer area of the clip.



Clips with key effects applied are displayed with an orange line.

Alternative

- Select a mixer of the clip on the timeline. Select an effect in the [Effect] palette, and click [Add to Timeline].
- Select a mixer of the clip on the timeline. Right-click an effect in the [Effect] palette, and click [Add to Timeline].
- Select an effect in the [Effect] palette and right-drag it to the mixer of the clip on the timeline, and click [Add] or [Replace]

5 Display the [Information] palette.

Showing/Hiding [Information] Palette ▶ P353

6 Click [Track Matte], and click [Open Setup Dialog] in the [Information] palette.

The [Track Matte] dialog box appears.

[Track Matte] Dialog Box ▶ P352

Alternative

- Double-click [Track Matte] in the [Information] palette.
- Drag [Track Matte] in the [Information] palette and drop it on [Open Setup Dialog].
- Right-click [Track Matte] in the [Information] palette, and click [Open Setup Dialog].

7 Configure the settings and click [OK].

8 Place a background clip on the track beneath the matte clip and compose.



Note

- If there is no clip to be the matte clip beneath the source clip, track matte setting is not applied.

[Track Matte] Dialog Box

<p>[Matte]</p>	<p>[Luminance] Use the matte clip luminance (16 - 235) as alpha (0 - 100%) and multiply it by the source clip alpha.</p> <p>[Alpha] Multiply the matte clip alpha by the source clip alpha.</p>
<p>[Invert]</p>	<p>Invert alpha generated from the matte clip and multiply.</p>

Applying Effects on Title

You can apply effects to the titles as well.

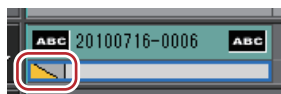
Title Mixer

You can apply effects on In and Out of title clips.

- 1 In the folder view of the [Effect] palette, click the [TitleMixers] tree.
- 2 Drag and drop a title mixer onto the mixer area of the clip.



A title mixer can be set individually on In and Out points.
The timeline display changes as shown below.



Check the title mixer details in the description in the property, or by trying to apply the effect.

Properties of Effects ▶ P322

Alternative

- Select a mixer of the clip on the timeline. Select an effect in the [Effect] palette, and click [Add to Timeline].
- Select a mixer of the clip on the timeline. Right-click an effect in the [Effect] palette, and click [Add to Timeline].
- Select an effect in the [Effect] palette and right-drag it to the mixer of the clip on the timeline, and click [Add] or [Replace]

- When placing the title clip, you can add the default title mixer automatically by setting at [Source] in [User Settings] → [Duration].

[Duration] ▶ P97

- - You can change the length after placing on the timeline.

Trimming Clips ▶ P264

Operation for Effects

Checking/Adjusting Effects

Check, adjust, or delete effects applied to a clip.

Showing/Hiding [Information] Palette

The selected clips and effects are displayed in the [Information] palette.

- 1 Click [Toggle Palette Display] of the timeline.



- 2 Click [Information].

The [Information] palette appears.

[Information] Palette ▶ P354


Alternative

- Click [View] on the menu bar, and click [Palette] → [Information].
- The [Information], [Effect] and [Marker] palettes can be shown/hidden by clicking [View] on the menu bar and clicking [Palette] → [Show All] or [Hide All].
- Showing/hiding palette: [H]

Showing/Hiding [Effect] Palette ▶ P319

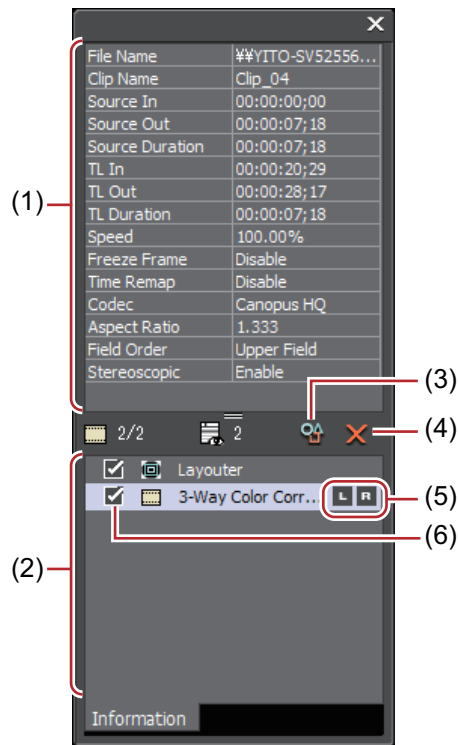
Displaying the [Clip Marker] List ▶ P276

Displaying the [Sequence Marker] List ▶ P282

-  • If you toggle the [Information] palette display, all of the bin window, source browser window, and palette tab associated to the [Information] palette toggle their display accordingly. To toggle the show/hide setting individually, release the association of the window and the palette.

Combining Bin Window/Source Browser Window with a Palette ▶ P117

[Information] Palette



(1)	Information area	Display information such as the file name or duration. The displayed contents differ depending on the part selected on the timeline.
(2)	Effect list	Display applied effects in a list. For a clip with a video part, [Layouter] is displayed. Double-click an item to display the [Layouter] dialog for cropping and transformation. [Layouter] is displayed at all times. Video Layout ▶ P254 The number on the upper left of the list shows the number of available effects/number of applied effects. Enabling and Disabling Effects ▶ P356
(3)	[Open Setup Dialog]	Display a settings dialog box to adjust each effect or the [Layouter] dialog box.
(4)	[Delete]	Delete the effect. [Layouter] items cannot be deleted.
(5)	L/R switch	Displayed only in the stereoscopic edit mode. Effects can be applied to L side only, R side only or to both the L and R sides. Applying Video Filters to L or R Side Only ▶ P357
(6)	Enable/Disable	Temporarily disable the layouter or effect settings. Uncheck this item to disable the settings.

Checking/Adjusting Effects

You can check or adjust the applied effect from the [Information] palette.

1 Click the area with effects applied on the timeline.

Parts Where Effects Are Applied ▶ P356

A list of the applied effects is displayed in the [Information] palette.

2 Click an effect name on the effect list in the [Information] palette, and click [Open Setup Dialog].

A settings dialog box to adjust each effect appears.

 **Alternative**

- Double-click an effect name on the palette.
- Drag and drop the effect name onto [Open Setup Dialog] in the palette.
- Right-click an effect name in the palette and click [Open Setup Dialog].

3 Adjust the effect.

For adjustment of effects, refer to the procedures to apply each effect.

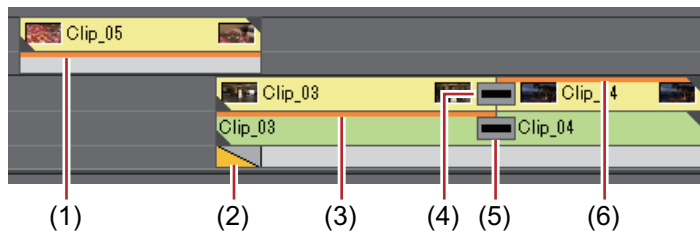


- You can specify a name to and save an adjusted parameter in the [Effect] palette.

Registering Effects to [Effect] Palette ▶ **P361**

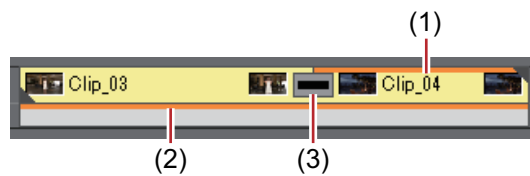
Parts Where Effects Are Applied

VA track



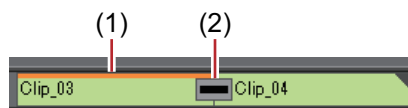
- (1) Key
- (2) Track Transition
- (3) Audio filter
- (4) Clip transition
- (5) Audio cross fade
- (6) Video filter, layouter

V track



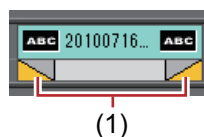
- (1) Video filter, layouter
- (2) Key
- (3) Clip transition

A track



- (1) Audio filter
- (2) Audio cross fade

T track



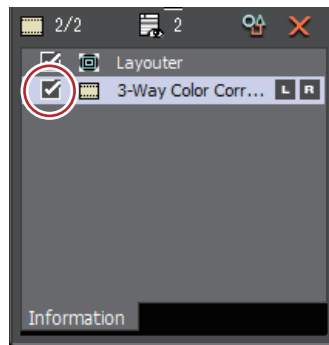
- (1) Title mixer

Enabling and Disabling Effects

You can temporarily disable the layouter or effects.

- 1 Click the area with effects applied on the timeline.
Checking/Adjusting Effects ► P354

2 Uncheck the item in the effect list in the [Information] palette.



Check this item to enable the effect, and uncheck to disable the effect.

Alternative

- Right-click an effect name in the palette and click [Enable/Disable].
- Select an effect name in the palette, and press [Ctrl] + [F] key.

Applying Video Filters to L or R Side Only

In the stereoscopic edit mode, video filters can be applied to the L or R side only.

1 Click the area with video filters applied on the timeline.

Checking/Adjusting Effects ▶ P354

2 Click L or R on the L/R switch on the [Information] palette.

Each click of the switch toggles between enabled/disabled.

Alternative

- Right-click an effect name in the palette and click [Stereoscopic] → [Left only], [R only] or [L-R].



- In the standard mode, if there is a video filter already applied to the L or R side only, the “!” icon is displayed on the [Information] palette.

Deleting Effects

You can delete the applied effects.

Deleting Effects Using Timeline

Example:

To delete a filter

1 Select a clip with the effect applied.

2 Click [Edit] on the menu bar, and click [Delete Parts] → [Filter] → an item.

Alternative

- Right-click a clip, and click [Delete Parts] → [Filter] → an item.
- Right-click the mixer area with the effect applied and click [Delete].
- Clip transition: [Shift] + [Alt] + [T]
- Audio cross fade: [Ctrl] + [Alt] + [T]
- Key: [Ctrl] + [Alt] + [G]
- Transparency: [Shift] + [Ctrl] + [Alt] + [G]
- Video filter: [Shift] + [Alt] + [F]
- Audio filter: [Ctrl] + [Alt] + [F]
- Deleting all transitions: [Alt] + [T]
- Deleting all filters: [Shift] + [Ctrl] + [Alt] + [F]

Deleting Effects Using [Information] Palette

1 Click the area with effects applied on the timeline.


Checking/Adjusting Effects ► P354

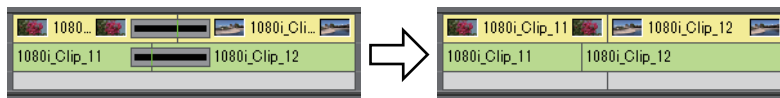
2 Click an effect name on the effect list in the [Information] palette, and click [Delete].

[Information] Palette ► P354

Alternative

- Drag the effect name out of the palette.
- Drag and drop the effect name onto [Delete] in the palette.
- Right-click an effect name and click [Delete].
- Select an effect to delete and press [Delete] key of the keyboard.

-  • When you set the transition or audio cross fade, green line (cut point) is displayed. This is the border for the transition before setting. If you delete the transition or audio cross fade, the Out point of the front clip and the In point of the back clip move back to the cut point.



Applying the Adjusted Effects to Another Clip

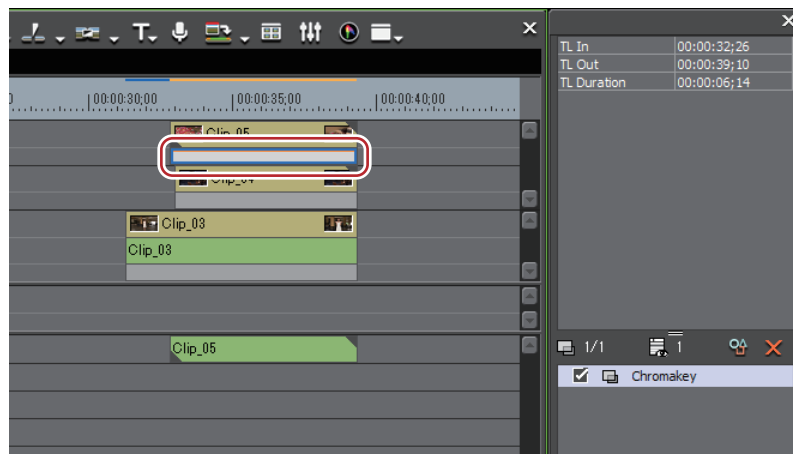
You can copy effects applied to a particular clip, or replace them with other effects from other clips.

Copying Effects

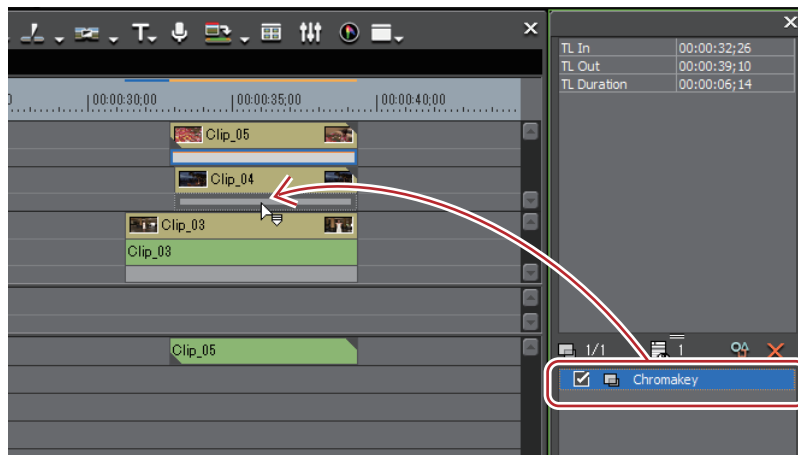
You can copy adjusted effects applied to a clip, and then apply it to other clips with their original settings.

1 Click the area with effects applied on the timeline.

Checking/Adjusting Effects ► P354



- 2 Drag and drop the effect in the effect list in the [Information] palette to the copy destination.



Copying Transition

- 1 Click a transition specified on the timeline, and click [Copy] of the timeline.



- 2 Select the clip on which to paste the transition.

If you want to paste a transition to the point of the timeline cursor, click the track on which the clip is placed and move the timeline cursor to the position to paste the transition.

- 3 Click the [Set Default Transition] list button.



- 4 Click the clip paste method.

Alternative

- Drag and drop an effect applied to the clip onto the timeline to other clips.

Replacing Effects

Copy an adjusted filter or mixer applied to a clip, and use it to replace a filter or mixer on other clips.

- 1 Click a clip with a filter or mixer applied, and click [Copy].



- 2 Click the clip to be the paste destination.
- 3 Click the [Replace Clip (All)] list button on the timeline.



- 4 Click [Filter] or [Mixer].

Alternative

- Select a clip to paste, click [Edit] on the menu bar, and click [Replace] → [Filter] or [Mixer].
- Right-drag a clip with a filter or mixer applied to a clip to be pasted, and click [Replace parts] → [Filter] or [Mixer].

- Drag a mixer with effects to copy and drop it onto the destination mixer.

User Preset Effects

Registering Effects You Created

You can register customized effects to [Effect].

Registering Effects to [Effect] Palette

You can adjust an existing effect to create an original effect (user preset effect) and register it to the [Effect] palette. You can also register multiple effects as one effect.

1 Click the area applied with an effect to be registered.

2 Click the folder to register the effect in the [Effect] palette.

You can also create a new folder.

Creating Folder in [Effect] Palette ▶ P361

3 Right-click the effect name to register in the [Information] palette, and click [Save as Current User Preset].

The effect is registered in the folder in the [Effect] palette. “U” appears on the icon of the registered effects.

User Preset Effect ▶ P322

4 Enter a name.



Alternative

• From the effect list in the [Information] palette, drag and drop the effect name onto a folder in the [Effect] palette.



• You can register multiple effects simultaneously. Select multiple effects and right-click them. Click [Save as Current User Preset] to register the selected multiple effects as one effect, or click [Save as Separate User Preset] to register them as separate effects.

Deleting Effects from [Effect] Palette

Delete the user preset effect.

1 Select the user preset effect to delete in the [Effect] palette, and click [Delete].

If you want to delete a folder including the effect, select the folder and click [Delete].



Alternative

• Right-click the user preset effect to delete in the [Effect] palette, and click [Delete].

• Select a user preset effect to delete and press [Delete] key of the keyboard.



Note

• You cannot delete the plug-in base effects and system preset effects.

• If the selected folder includes effects other than the user preset effects, only the user preset effects are deleted.

• If the selected folder includes folders registered as a folder shortcut, a confirmation dialog box appears. Click [OK] to delete the folder.

Customizing Contents of [Effect] Palette

You can rename effects and folders, or change the folder structure.

Creating Folder in [Effect] Palette

You can create a new folder in the [Effect] palette.

1 Right-click a folder in the [Effect] palette and click [Create New Folder].

A new folder is created under the selected folder.

2 Enter a name.

Renaming Effects


You can change the name of an effect or a folder.

1 Right-click an effect or a folder and click [Change Name].

 **Alternative**

- Click the name of the effect or folder.
- Right-click an effect and click [Properties]. Change the name in the [Properties] dialog box and click [OK].

2 Enter a name.

-  • You cannot rename the plug-in base effects and system preset effects.

Folder Structure of [Effect] Palette

You can sort effects or folders, or change the folder structure. Or you can lock them not to move by mistake.

Fixing Folder Structure

1 Click [lock] in the [Effect] palette.



Each click on [lock] switches the lock on and off.

 **Note**

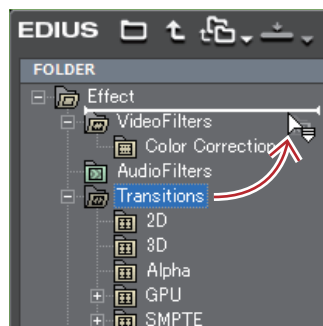
- When you select [Return to Default], the settings return to the default even after [lock] is enabled.

Initializing [Effect] Palette ▶ P363

Changing Folder Structure

-  • Before making an operation, click [lock] to disable the lock.

1 Drag and drop an effect or folder to the destination.



Folder Shortcuts

You can quickly open the frequently used folders by assigning them to folder shortcut.

Setting in Folder View

The folder assigned to each shortcut is as shown below. The icon is displayed in gray when no shortcut is assigned.


: [VideoFilters]

: [AudioFilters]

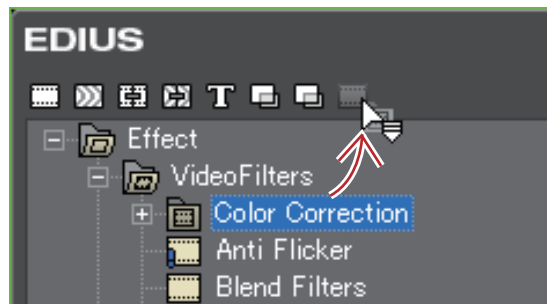
: [Transitions]

: [AudioCrossFades]

: [TitleMixers]

: [Keyers]

- 1 Drag and drop the folder to assign shortcut to the icon.



Setting with Effect View

- 1 Select a folder to set as a shortcut.
- 2 Click [Folder Link] in the [Effect] palette.



- 3 Click [Add Link].

The selected folder is added to the list.



- You can assign up to 8 folders to a folder shortcut.

Deleting Folder Shortcuts

- 1 Click [Folder Link] in the [Effect] palette.



- 2 Click [Arrange].

The [Arrange] dialog box appears.

- 3 Select a shortcut to delete and click [Delete].

Click [Close] to finish the operation.

Initializing [Effect] Palette

You can reset the [Effect] palette to the default.

- 1 Right-click the [Effect] palette, and click [Return to Default].
- 2 Click [OK].



Note

- When you select [Return to Default], the settings return to the default even after [lock] is enabled.

Import/Export

Exporting/Importing Effects Created

You can export the effect you created and import to other EDIUS, or import effects created by EDIUS.

Exporting Effects (Export)

You can export and save user preset effects. The extension of the saved file is “*.tpd”.

1 Right-click the effect or folder to export in the [Effect] palette, and click [Export].

The [Save As] dialog box appears.

2 Set a file name and save destination, and click [Save].

Importing Effects (Import)

You can read the effect file with the extension “*.tpd” as user preset effect.

1 Right-click the folder to import the user preset effect in the [Effect] palette, and click [Import].

2 Select a file, and click [Open].

A new folder is created in the selected folder, and the imported effect is registered to the folder.



- Effects for audio can also be imported by registering the VST plug-in.

VST Plug-in Registration ▶ P88

Checking Color Data

Adjusting to Display on TV Monitor

The video finely displayed on a PC monitor may cause the problems like highlight/shadow detail loss when actually displayed on a TV monitor.

This problem occurs when the luminance range is smaller than that allowed to be displayed on a PC monitor. To display the video on a TV monitor, you need to adjust video signal in advance.

[Vector Scope/Waveform]

To adjust the video signal range that is hard to judge visually, measure it with Vector Scope/Waveform. Vector Scope adjusts the color balance, and Waveform adjust the brightness to be the average value of the whole display.

- 1 Move the timeline cursor to display the image to check the color data on Recorder.
- 2 Click [Toggle Vector Scope/Waveform Display] of the timeline.



The [Vector Scope/Waveform] dialog box appears.

[Vector Scope/Waveform] Dialog Box ▶ P365

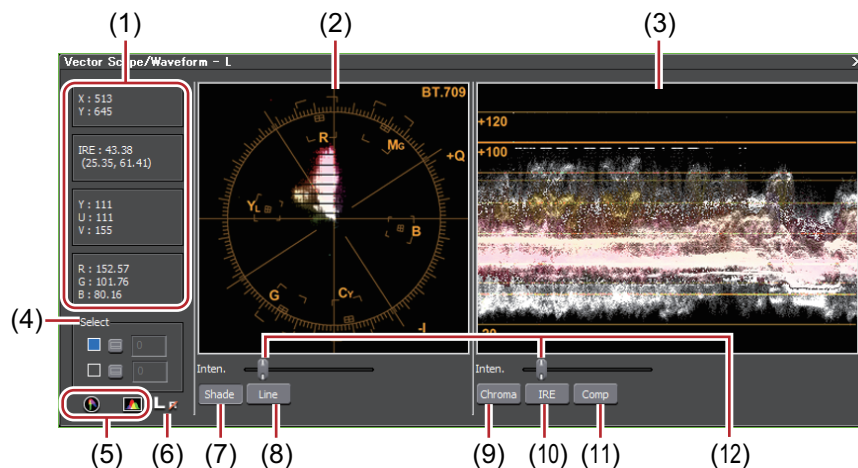
Alternative

- Click [View] on the menu bar, and click [Vector Scope/Waveform].


Note

- Displaying Vector Scope/Waveform increases the CPU loading. Display it only when required.

[Vector Scope/Waveform] Dialog Box



(1)	Information area	Display coordinate values (X, Y) on the screen and YUV, IRE and RGB values.
(2)	vector scope	Display color distribution in the image shown in Recorder. The circle represents the color circle, and the distance from the center represents the saturation. Click on the vector scope to be expanded, and right-click it while keeping expanded to be contrasted.

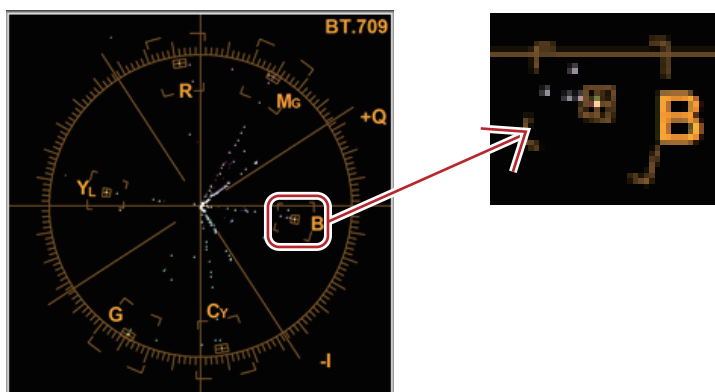
(3)	Waveform	Display chroma and luminance levels of the image on Recorder. Click on the waveform to be expanded, and right-click it while keeping expanded to be contrasted.
(4)	[Select]	Display the information of a Y-axis (vertical) position. Check this item, click  , and then click a position on Recorder screen. You can also directly enter the scanning line. The box shows the Y coordinate values of that position, and the displays of the vector scope and waveform are fixed to the color data of that position. Even after you uncheck the item, the last display of the vector scope and waveform is reproduced when you check the item box again.
(5)	Show/Hide	Switch the show/hide for the vector scope/waveform.
(6)	L/R switch	In the stereoscopic edit mode, this is displayed when the video of both the L and R sides are displayed in the preview window. The vector scope or waveform on the L or R side only is displayed.
(7)	[Shade]	Display the color distribution by dots on Vector Scope.
(8)	[Line]	Display the color distribution by lines connecting between dots on Vector Scope.
(9)	[Chroma]	Display only the color tone factor in the 0 IRE center of the waveform.
(10)	[IRE]	Display only the luminance factor in the waveform.
(11)	[Comp]	Display the composite signal of color tone factor (Chroma) and luminance factor (IRE) in the waveform.
(12)	Luminance sliders	Use these sliders to adjust the luminance of the monitor.

Example:

Measure the color balance using a vector scope

Measure the color bar recorded in the source clip using the [Vector Scope/Waveform] dialog box.

An adjustment is needed when the light representing the color distribution is shifted far from the reticule center of the vector scope.

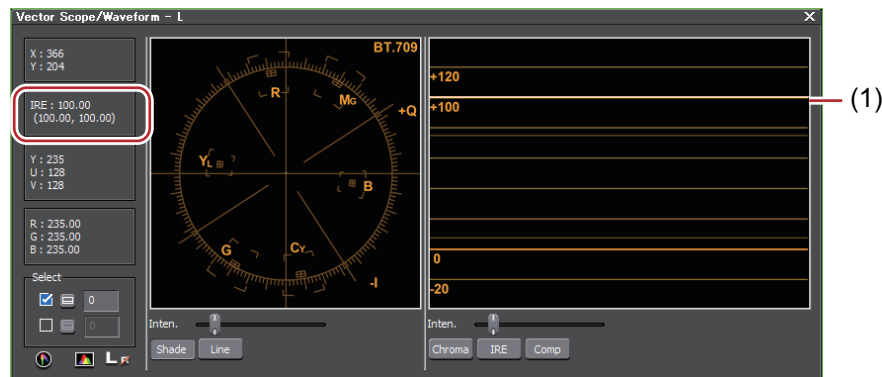


Example:

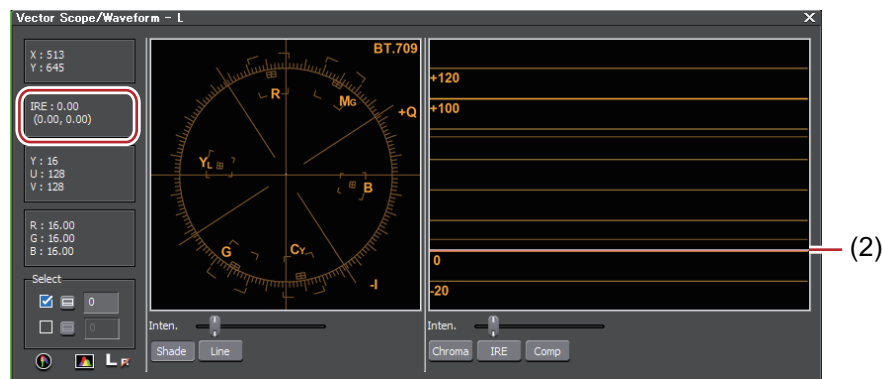
Measure the luminance with waveform to check if it is within the appropriate range

When you place a white color matte clip created in the safe color range on the timeline and measure it in the [Vector Scope/Waveform] dialog box, IRE100 appears (at the position of (1)).

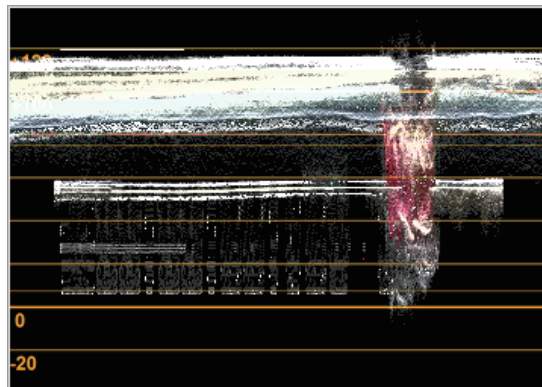
Color Matte Clips ▶ P192



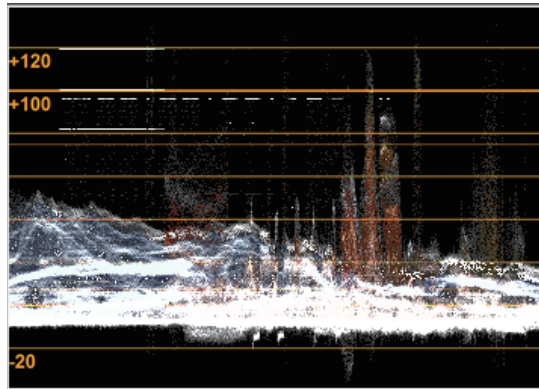
In the case of black color matte clips created in the safe color range, IRE0 appears. (at the position of (2)) Adjustment is not necessary when IRE is a minus value.



If the luminance is high, the following screen is displayed.



If the luminance is low, the following screen is displayed.



In this case, you need to adjust IRE within the range between 0 and 100. To easily adjust it, apply the color balance of a video filter to the clip. Open the settings dialog box of the color balance, and select the [Safe Color] option to automatically adjust the IRE of the clip between 0 and 100.

Adjusting Color Balance ▶ P330



- Although Safe Color clips a range of luminance 16-235 and chroma 16-240, and the chroma is not automatically included in the safe area, it is calculated to include luminance/chroma within IRE0-100.

CHAPTER 9

Title Creation

This chapter explains how to use the Quick Titler software for creating a title and manipulating a title clip with EDIUS.

Quick Titler

Starting up and Exiting Quick Titler

Creating a New Title

Quick Titler starts up automatically when you create a title clip with EDIUS. If started up from the timeline, the created title is placed on the timeline, and if started up from the bin, the title is registered in the bin.



- The existing titler can be changed from [Application] in [User Settings] → [Other].
[Other] ▶ P93
- You can also start up Quick Titler independently by double-clicking Quick Titler .exe. However, it cannot be started up on the PC without EDIUS license.
- To check the version information for Quick Titler, click [Version Info], or click [Help] on the Quick Titler menu bar → [Quick Titler Version Information].

Creating a Title Clip on the Timeline

- 1 Move the timeline cursor to the position in which to create a title clip.
- 2 Click [Create Title] of the timeline.



- 3 Select a track to create a title.

Quick Titler will start up.

The created title clip is placed on the timeline, and also simultaneously registered in the bin.

If In and Out points have not been set on the timeline, when a title is created and saved, the title clip is placed on the selected track at the position of the timeline cursor. The default duration can be set from [Source] in [User Settings] on EDIUS → [Duration].

[Duration] ▶ P97

If In and Out points have been set on the timeline, the title clip is placed between In and Out points on the selected track when a title is created and saved. Even if In and Out points have been set, you can also configure the settings in order to place the title clip with a default duration.

[Duration] ▶ P97



Alternative

- Right-click the track on which to place the title clip, and click [New Clip] → [QuickTitler].
- Starting up Quick Titler: [T]



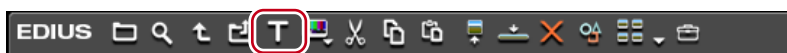
Note

- If the video source channel has been deleted, you cannot select [Create Title in Video Channel Track].

Connecting/Disconnecting the Source Channel ▶ P225

Registering a Title Clip in the Bin without Placing on the Timeline

- 1 Click [Add Title] in the bin.



Quick Titler will start up.



Alternative

- Click [Clip] on the EDIUS menu bar, and click [Create Clip] → [QuickTitler].

- Right-click a blank area in the clip view of the bin window, and click [Add Title].
- Right-click a blank area in the clip view of the bin window, and click [New Clip] → [QuickTitr].

Exiting Quick Titr

This section explains how to exit Quick Titr.

- Quick Titr exits when you save the title clip currently being edited.

1 Click [File] on the Quick Titr menu bar, and click [Close].

Alternative

- Click [x] in the Quick Titr window.

2 Click [Yes].

Click [No] if you do not want to save the title clip. Click [Cancel] to cancel the operation.

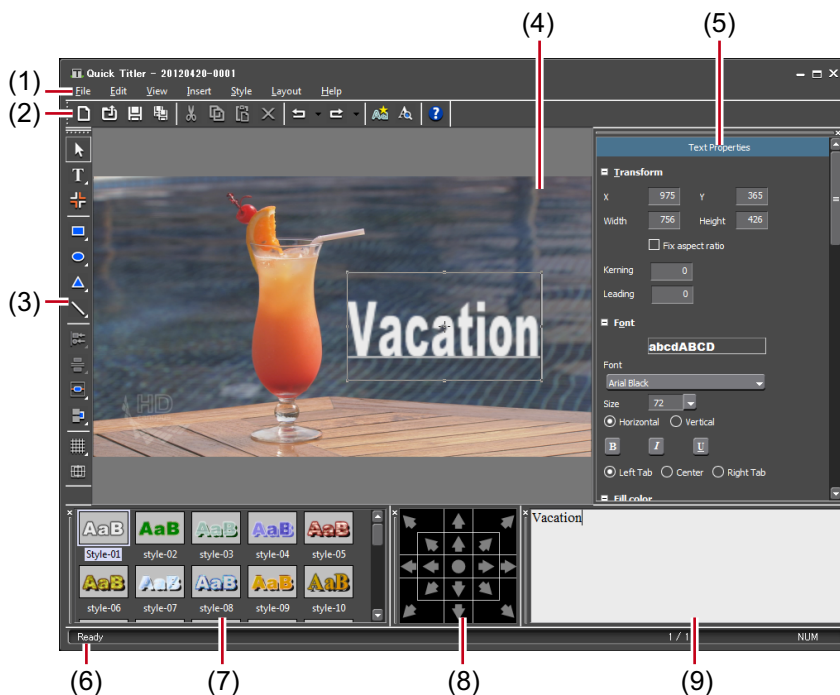
About the Quick Titr Screen Configuration

About the Screen

The following explains the Quick Titr screen.

The Quick Titr screen mainly consists of a screen for the creation/editing of objects, a properties panel for setting the color and effects, and a style list that displays preset styles.

Quick Titr Screen



(1)	Quick Titr menu bar	Perform general operations for Quick Titr.
(2)	File tool bar	Operation buttons for new file creation/saving, copying/deleting, style registration and preview.
(3)	Object tool bar	Operation buttons for selection, text entry and creation/alignment of objects.
(4)	Object creating screen	Edit a title.

(5)	Title object property bar	Set the properties of a selected text object.[Background Properties], [Text Properties],[Image Properties],[Object Properties] will be displayed respectively.
(6)	Status bar	Displays a simple description of an operation button or menu, keyboard status and text object location.
(7)	Title object style bar	Displays a list of the styles that can be applied to a currently selected text object.
(8)	Layout bar	Align a text object to the center/title safe area/overscan area. Not displayed at the start-up for the first time. <i>Showing/Hiding Bars ► P373</i>
(9)	Text entry bar	Enter text. Not displayed at the start-up for the first time. Text can also be entered directly in the object creating screen. <i>Showing/Hiding Bars ► P373</i>



- Click [Preview Mode Ctrl+Shift+F3] or press [Ctrl] + [Shift] + [F3] on the keyboard to switch between the high resolution and low resolution of the preview.



- Press [F5] on the keyboard to switch focus between the object creating screen, title object property bar and title object style bar.
- If Quick Titler is started up independently, [Video settings] in [Background Properties] will be enabled. Set the video format, frame size and aspect ratio of the title to be created.

Showing/Hiding Bars

You can switch the show/hide setting for the title object property bar and title object style bar, etc.

1 Click [View] on the Quick Titler menu bar, and click a bar to hide/show.

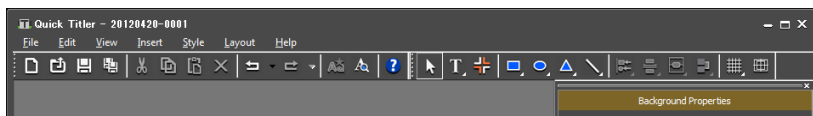
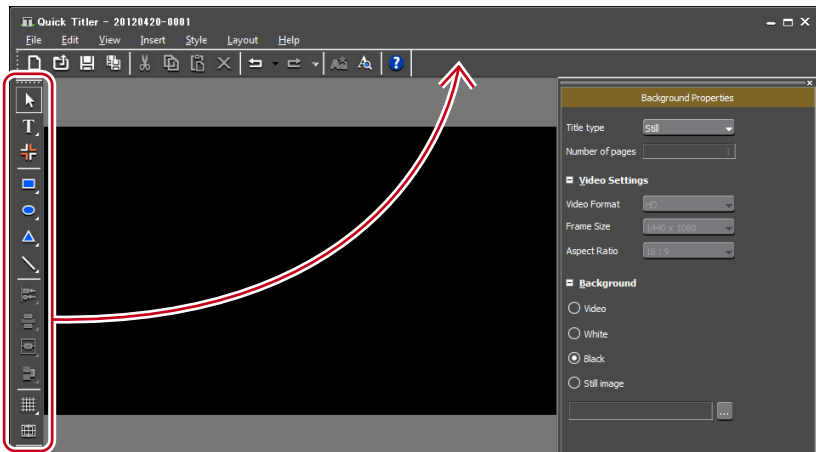
When a bar is checked it will be shown, and if unchecked, it will be hidden.

Moving Bars

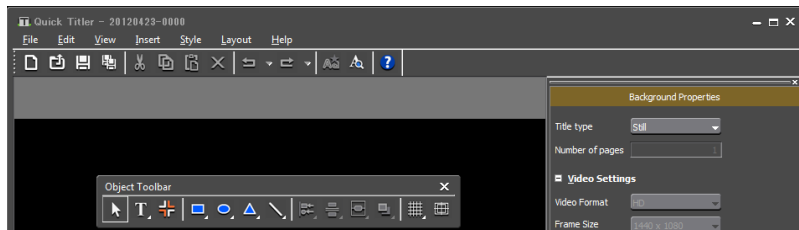
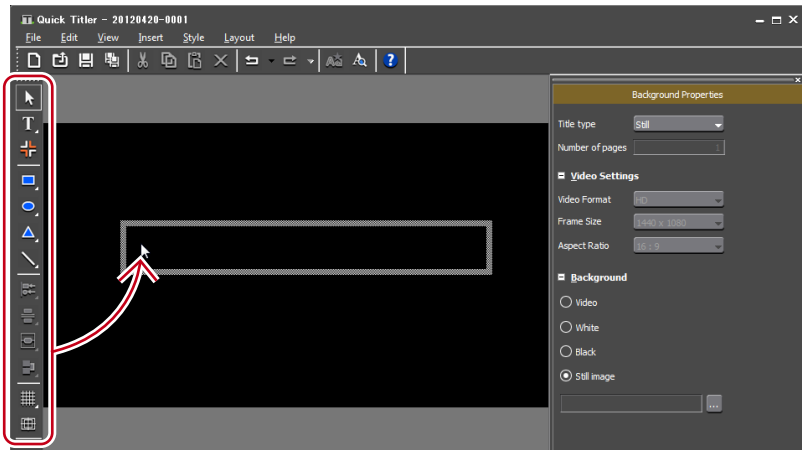
You can place the title object property bar and title object style bar where you want.

1 Drag a bar to move and drop it in its destination.

Bars will be moved into a position indicated by a white frame that appears during dragging.



If dropped into a position indicated with a thick white frame, the bar will float as a new window.



Creating/Saving a New Title Clip

Creating a New Title Clip

When Quick Titler is started up from an EDIUS timeline, a new title clip is created automatically. This section describes how to create a new title clip during Quick Titler editing or after start-up.

1 Click [File] on the file tool bar.



Alternative

- Click [File] on the Quick Titler menu bar, and click [New].
- Creating a new title clip: [Ctrl] + [N]

Opening a Title Clip

You can open and edit an existing title clip.

1 Click [Open] on the file tool bar.



2 Select a file, and click [Open].

Alternative

- Click [File] on the Quick Titler menu bar, and click [Open].
- Opening a title clip: [Ctrl] + [O]



- When you click [File] on the Quick Titler menu bar, up to 4 of the most recently edited title clips are displayed. Click the file name to open the file.
- When you double-click a title clip on the EDIUS timeline or in the bin, a titler starts up and the file is opened.

Exporting a Still Image

You can export a title you have created, including the background, as a still image.

1 Click [File] on the Quick Titler menu bar, and click [Export].

The [Save As] dialog box appears.

2 Select the save destination, file name and file format, and click [Save].

Overwrite Saving

You can overwrite save a title clip during editing.

Note

- When using multiples of the same title clip on a timeline, editing one of the title clips will update the content of all the title clips. If you want to edit only one title clip out of multiple same title clips, save it in another name.

1 Click [Save] on the file tool bar.



Save the title clip and exit Quick Titler.

Alternative

- Click [File] on the Quick Titler menu bar, and click [Save].
- Overwrite saving: [Ctrl] + [S]



- When [Save] is clicked, the file is saved in the “title” folder present in the folder where the project file is saved. The file name will be “Year, month and day saved—4-digit sequential number.etl”.
- If you start up Quick Titler independently to edit a title and click [Save], the file will be saved in another name.

Saving in Another Name

You can save a title clip being edited with a given name.

1 Click [File] on the Quick Titler menu bar, and click [Save As].

The [Save As] dialog box appears.

2 Enter a file name and click [Save].

Save the title clip and exit Quick Titler.

- If you double-click a title clip on the timeline to start up Quick Titler and then save in another name, only the title clip opened with the double-click will be updated, while a new title clip will be registered in the bin.

Automatic Saving in Another Name

You can automatically save the title clip being edited with a given name.

Note

- When Quick Titler has been started up independently, you cannot save automatically with another name.

1 Click [Auto save as] on the file tool bar.



The title clip will be saved with the file name "Year, month and day saved—4-digit sequential number.etl".

Alternative

- Click [File] on the Quick Titler menu bar, and click [Auto save as].
- Automatic saving in another name: [Ctrl] + [Shift] + [S]

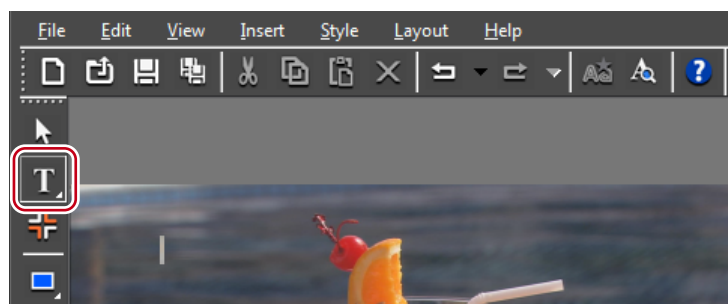
- If you double-click a title clip on the timeline to start up Quick Titler and then save in another name, only the title clip opened with the double-click will be updated, while a new title clip will be registered in the bin.

Creating Text Objects

Entering Text

This section explains how to enter text.

1 Click [Horizontal Text] on the object tool bar.



If you click and hold down [Horizontal Text], you can select [Vertical Text].

2 Click on the object creating screen.

The text cursor appears on the object creating screen.

3 Enter text using the keyboard.

You can also display a text input bar to edit text.

Showing/Hiding Bars ▶ P373

Alternative

- Click [Insert] on the Quick Titrer menu bar, and click [Text] → [Horizontal] or [Vertical].
- Right-click with nothing selected, and click [Insert] → [Text] → [Horizontal] or [Vertical].
- Right-click a text box and click [Edit text].



- You can input text by importing text files.

Importing External Files ► P380

Formatting Settings

You can change the text format such as the font or text size.

Settings such as font or text decoration can be changed under [Font] on the text properties bar. Text format settings can be applied at the character or level or at the line level.

1 Select the text string or text box to be formatted.



- Kerning, Font, Default size, Bold, Italic and Underline can be applied at the character level. To apply to specific characters, drag along the desired character string to select it. When no specific character string is selected, format settings can be applied to an entire selected text box. You can change leading at the line level. To apply leading to a specific line, place the cursor in the desired line. To set leading for an entire text, select the text box.

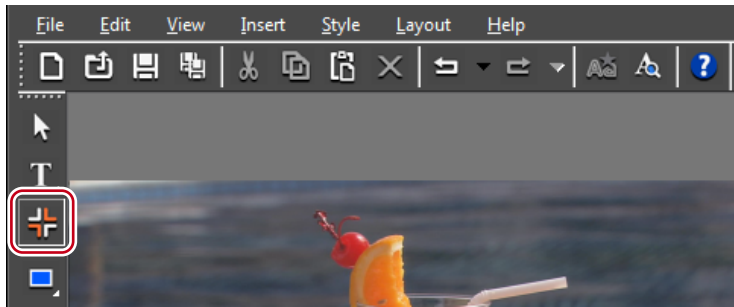
2 Set the text format using text properties.

[X], [Y]	Specify the position of a text box.
[Width]/[Height]	Specify the size of a text box. The character size will also be increased/decreased to fit in a text box. Check [Fix aspect ratio] to fix the aspect ratio.
[Kerning]	Enter a value. Set a value in the range of –300% to 300%.
[Leading]	Enter a value. Considering that a leading value of “0” is 100%, set a value in the range of –300% to 300%.
[Font]	Select the font.
[Size]	Select the character size.
[Horizontal], [Vertical]	Select between horizontal or vertical.
[Bold]/[Italic]/[Underline]	Click a button to apply a Bold, Italic or Underline effect to text strings.
[Left Tab]/[Center]/[Right Tab]	Specify the alignment of a text string. For vertical text, [Top], [Center] or [Bottom] can be selected.

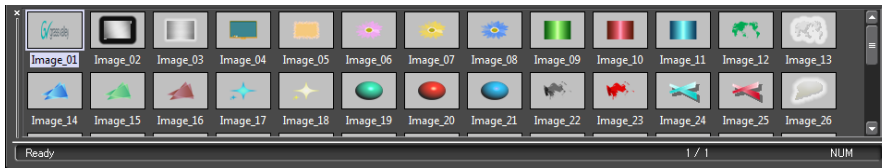
Creating Images

You can select and place your desired image from those provided on the title object style bar.

1 Click [Image] on the object tool bar.



Style chips are displayed on the title object style bar.



2 Click the style chip you want to create.

3 Click or drag the object creating screen.

An image will be placed in the selected style.

Drag the image to the desired size.

Alternative

- Click [Insert] on the Quick Titler menu bar, and click [Image].
- Right-click with nothing selected, and click [Insert] → [Image].

- To place any still image, after step 3, click [...] of the [File] tree on the image properties bar and select a file.

Creating Graphics

You can create your desired graphics.

1 Click [Rectangle], [Ellipse] or [IsoscelesTriangle] on the object tool bar.

Keeping click held on of the shapes, you can then select a rounded rectangle, circle or right angled triangle.



2 Click or drag the object creating screen.

The shape will be placed.

Drag the shape to the size you want the shape to be.

Alternative

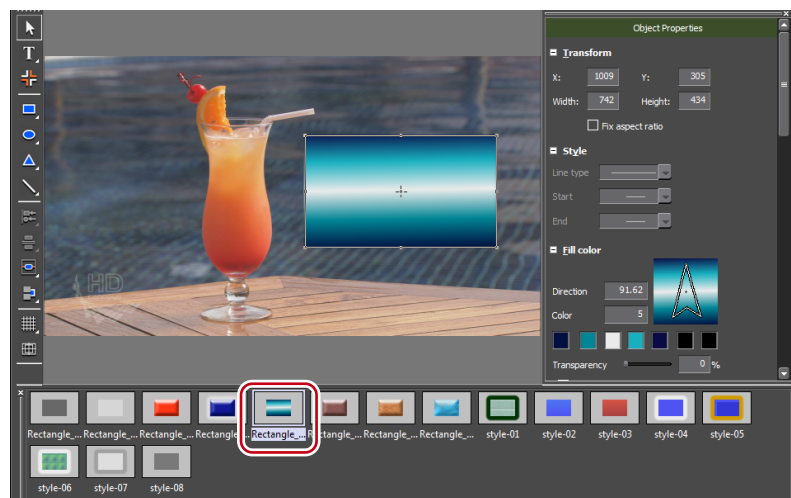
- Click [Insert] on the Quick Titler menu bar, and click the type of shape to be created.
- Right-click with nothing selected, and click [Insert] → shape type.

3 Set the style.

Use the object properties bar to set the style such as color or border.

Applying Effects to Text Objects ▶ P387

In the title object style bar, double-click the style chip you want to apply.

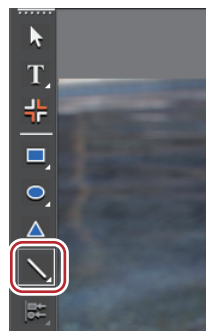


Creating Lines

You can create straight or polygonal lines.

1 Click [Line] on the object tool bar.

If you click and hold down [Line], you can select [Continuous line].



2 Click or drag the object creating screen.

The line will be placed.

Drag on the screen to the length you want the line to be.

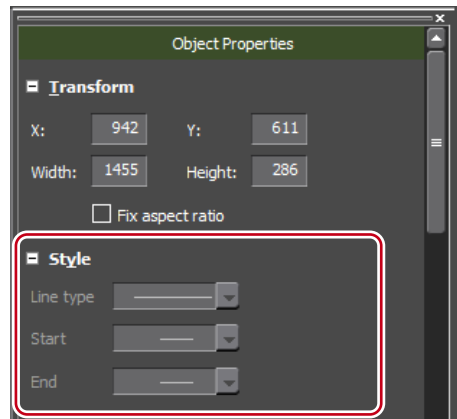
If [Continuous line] was selected, click the start point → click the corner points → double-click the final point on the line.

Alternative

- Click [Insert] on the Quick Titler menu bar, and click [Line] → [Line] or [Continuous line].

3 Set the style.

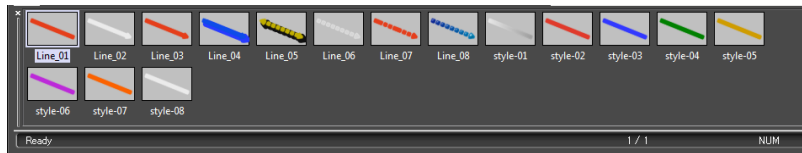
Click the [Style] tree on the object properties bar, and then select a line type and shape of start/end point from the list.



You can also select other settings like color or border.

Applying Effects to Text Objects ▶ P387

In the title object style bar, double-click the style chip you want to apply.



Importing External Files

You can import text files or image files by dropping them on the object creating screen.



- The following file formats can be imported.
 - Text file: TXT
 - Image file: BMP, GIF, JPEG, PNG, TIFF, TARGA, PSD, EMF

1 Drag and drop the file you want to import from your desktop or a folder onto the object creating screen.

For image files, clicking [Original size] under [Transform] on the image properties bar resizes the image to its original size.



Alternative

- For images, create an image, and then select the image files by clicking [...] of the [File] tree on the properties bar.
- For text, put the cursor in a text box, click [Insert] on the Quick Titler menu bar, and then click [Text] → [File]. Select a text file in the [Open] dialog box.

Editing Text Objects

Copying

You can copy a text object.

1 Select a text object, and click [Copy] on the file tool bar.



You can then paste it.



Alternative

- Right-click a text object and click [Copy].
- Click [Edit] on the Quick Titler menu bar, and click [Copy].

- Copying: [Ctrl] + [C]

Cutting

You can cut a text object.

- 1 Select a text object, and click [Cut] on the file tool bar.



You can then paste it.

Alternative

- Right-click a text object and click [Cut].
- Click [Edit] on the Quick Titler menu bar, and click [Cut].
- Cutting: [Ctrl] + [X]

Pasting

You can paste a copied or cut text object.

- 1 Copy or cut a text object.

Copying ► P380

Cutting ► P381

- 2 Click [Paste] on the file tool bar.



A copied or cut text object will be pasted in the same position as the original text object.

Alternative

- Right-click a text or object and click [Paste].
- Click [Edit] on the Quick Titler menu bar, and click [Paste].
- Pasting: [Ctrl] + [V]



- A copied or cut text object can be pasted onto another title clip.
- When you have dragged along a text to select it then copy or cut it, the text can then be pasted at the cursor position when in text editing mode. The text can only be pasted when in text editing mode.
- When a text box is selected then copied or cut, it cannot be pasted when in text editing mode.

Deleting

You can delete a text object.

- 1 Select a text object, and click [Delete] on the file tool bar.



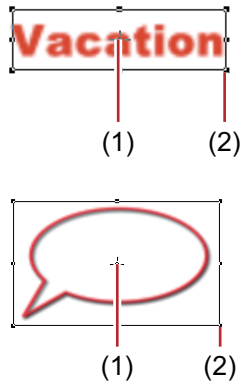
Alternative

- Right-click a text object and click [Delete].
- Click [Edit] on the Quick Titler menu bar, and click [Delete].
- Deleting: [Delete]

Resizing a Text Object

You can resize a text object.

You can adjust a text object size by dragging the edge of the object frame.



(1) Center point handle

(2) Operation handle

- 1 Place the mouse cursor over an operation handle.
- 2 When the mouse cursor changes shape, start to drag.



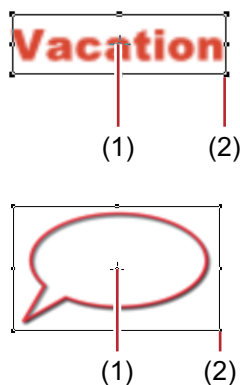
Changing by Entering Values

You can specify size from the [Transform] tree on the properties bar.

- 1 Select a text object and enter values for [Width] and [Height].
- Check [Fix aspect ratio] to fix the aspect ratio.
 For images, click [Original size] to return an image to its original size.

Rotating a Text Object

You can rotate a text object.
 To rotate a text object, drag a corner of the object frame.



(1) Center point handle

(2) Operation handle

- 1 While holding down the [Ctrl] key, place the mouse cursor over an operation handle.

If you move the mouse cursor over a center point handle, the mouse cursor shape changes, and you can drag to move the axis of rotation. To return the rotation axis to the center point, click the background to deselect the selected text object.

2 When the mouse cursor changes shape, start to drag.



- Rotating while holding down the [Shift] key rotates the text object in 15-degree increments. Rotating while holding down the [Alt] key rotates the text object around the center of opposite corners.

Undoing Operations/Redoing Undone Operations

You can undo a performed operation or redo an undone operation. Up to 10 undos and 10 redos are recorded. You can select to undo/redo an operation from the list of recorded operations.

1 Click [Undo] or [Redo] on the file tool bar.



Alternative

- Undoing operation: [Ctrl] + [Z]
 - Redoing undone operation: [Ctrl] + [Y]
- Clicking the [Undo] or [Redo] list button displays a list of 10 operations performed. You can select how many operations to undo or redo.

Adjusting the Text Object Position

- EDIUS can be used to configure the layout of a title clip.
Layout Settings ► P395

Moving a Text Object

You can move a text object.

1 Click a text object and, after the mouse cursor changes shape, drag it.



Changing by Entering Values

You can specify the position from [Transform] on the properties bar.

1 Select a text object and enter values for [X] and [Y].

Aligning a Text Object

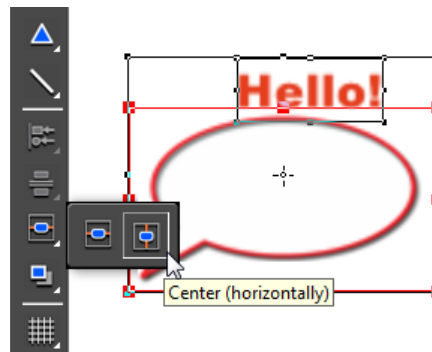
You can align text objects.

Alignment to the Vertical/Horizontal Center

1 Select the text objects to be aligned.

Multiple text objects can be selected with the selection tool by clicking them while holding down the [Ctrl] key on the keyboard.

2 Click [Center (vertically)] or [Center (horizontally)] on the object tool bar.



Alternative

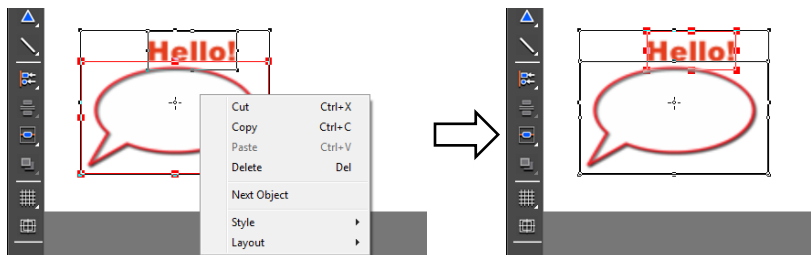
- Click [Layout] on the Quick Titler menu bar, and click [Center in screen] → [Vertical] or [Horizontal].
- Right-click a text object, and click [Layout] → [Center in screen] → [Vertical] or [Horizontal].

Alignment to a Reference Text Object

1 Select the text objects to be aligned.

Multiple text objects can be selected with the selection tool by clicking them while holding down the [Ctrl] key on the keyboard.

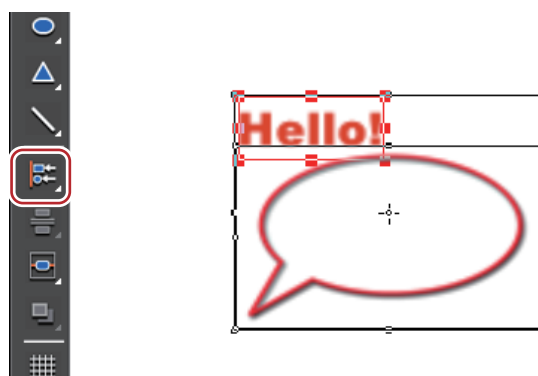
2 Right-click the text object, click [Next Object] and then select a text object to be used as a reference for alignment.



The text object with an operation handle displayed at its border is the selected text object (active object). You can switch the active object by clicking [Next Object].

3 Click [Left Tab] on the object tool bar.

If you click and hold down [Left Tab], you can select between [Right Tab], [Top], [Bottom], [Center (vertically)] and [Center (horizontally)].



Alternative

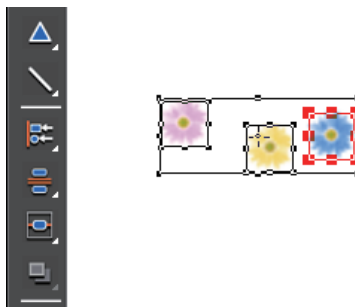
- Click [Layout] on the Quick Titler menu bar, and click [Align] → an item.
- Right-click a text object, and click [Layout] → [Align] → an item.

- When multiple text objects are selected, you can apply Align Left, Align Right, Align Top, Align Bottom, Align Center (vertically), and Align Center (horizontally).

Uniform Horizontal/Vertical Alignment

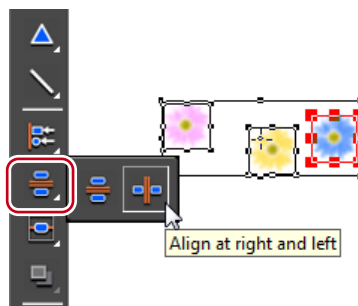
1 Select the text objects to be aligned.

Multiple text objects can be selected with the selection tool by clicking them while holding down the [Ctrl] key on the keyboard.



2 Click [Align at top and bottom] on the object tool bar.

If you click and hold down [Align at top and bottom], you can select [Align at right and left].



Alternative

- Click [Layout] on the Quick Titler menu bar, and click [Same space] → an item.
- Right-click a text object, and click [Layout] → [Same space] → an item.

- Align vertically and align horizontally can be applied when 3 or more text objects are selected.

Layout Settings

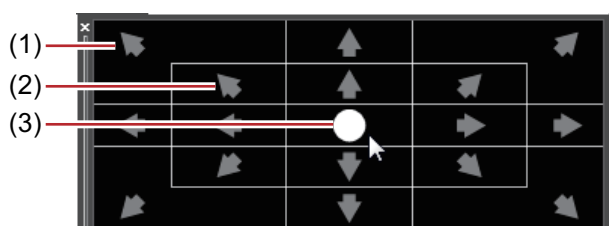
You can align text and objects to fit the center, title safe area or overscan area.

1 Show the layout bar.

Showing/Hiding Bars ▶ P373

2 Select a text object and then click where to place it using the layout bar.

Multiple text objects can be selected with the selection tool by clicking them while holding down the [Ctrl] key on the keyboard.



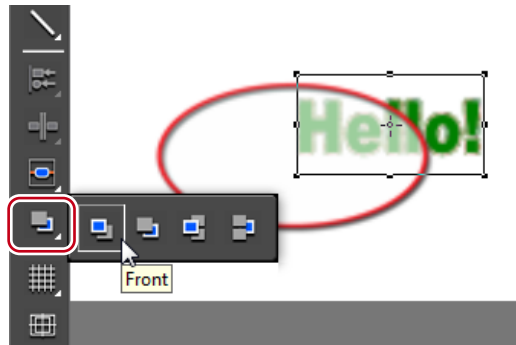
(1) Overscan

(2) Title safe area**(3) Center****Switching the Order of Text Objects**

You can switch the order of text and objects.

1 Select the text and objects you want to switch the order of.**2 Click [Front] on the object tool bar.**

If you click and hold down [Front], you can select [Back], [Move to Top] or [Move to Bottom].

**Alternative**

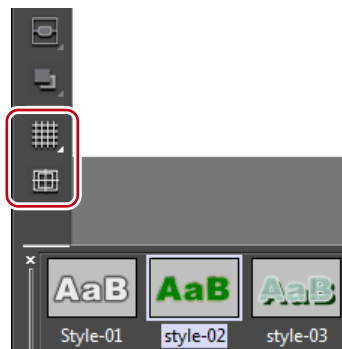
- Click [Layout] on the Quick Titler menu bar, and click [Order] → an item.
- Right-click a text object, and click [Layout] → [Order] → an item.

Showing/Hiding Grid and Safe Area

You can display a grid or safe area on the object creating screen to use as a guide when moving text objects.

1 Click [Line Grid] or [Title Safe Area] on the object tool bar.

If you click and hold down [Line Grid], you can select [Dot Grid].

**Alternative**

- Click [View] on the Quick Titler menu bar, and click [Grid] → [Dot Grid] or [Line Grid].
- Click [View] on the Quick Titler menu bar, and click [Title Safe Area].

- If Quick Titler starts up from EDIUS, the 4:3 title safe area will also be displayed when [4:3] for the 16:9 screen guide line is set to be displayed through [Preview] in [User Settings] → [Overlay].

[Overlay] ▶ P96

Displaying a Background

You can import EDIUS Recorder images or any still images to be the background of the object creating screen to use as a guide when positioning text objects.

Clicking the background will display the background properties.

1 Click the [Background] tree on the background properties bar, and then select an item to be displayed as background.



- If you have selected [Still Image], click [...] and select a still image in the [Select Background File] dialog box.
- Even if a background is set as the background in the background properties of QuickTitler, the background is not used in the title clip. The background set in the background properties is available as the background for the edit screen. To output an edited title with a background, export a still image.

Exporting a Still Image ► P375

Applying Effects to Text Objects



- EDIUS can be used to apply effects such as fade-in/fade-out.
Applying a Title Mixer ► P393
- You can apply effects using the properties bar. A text, image or shape properties bar will be displayed depending on whether text, an image or shape is selected. The text properties bar is used here for demonstration purposes. Your screen may differ depending on what you have selected.

Color Settings

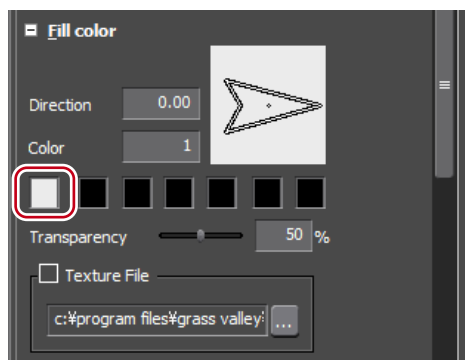
You can set the color of text and shapes. You can also apply a gradation effect.



Note

- You cannot change the color for images.

- 1 Select the text or shape in which to change the color.
- 2 Click the [Fill color] tree on the properties bar.
- 3 Click the color palette.



The [Color Select] dialog box appears.

[Color Select] Dialog Box ► P193

- 4 Specify a color.



Note

- When [Texture File] is checked, the color change is not applied to the text or shape.

Gradation Settings



- 1 Select a text or shape in which to apply gradation.
- 2 Click the [Fill color] tree on the properties bar.

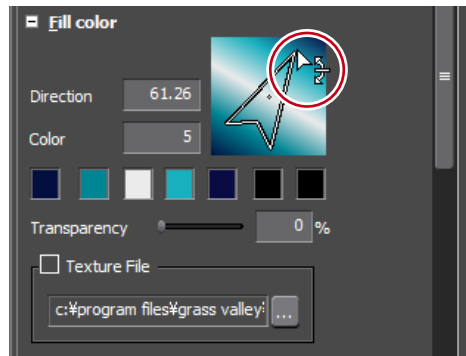
3 Enter the number of colors used for the gradation in [Color].

Up to 7 colors can be used.

4 Click the color palette.

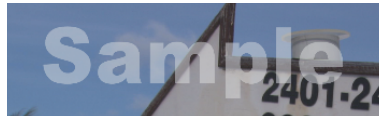
The [Color Select] dialog box appears.

[Color Select] Dialog Box ▶ P193

5 Specify a color.**6 Repeat steps 4 and 5 for the number of specified colors.****7 Adjust the color gradation by entering a value in [Direction] or by dragging the arrow figure.**

Transparency Settings

You can adjust the transparency of a text object in order to see the background behind it.



- 1 Select the text object of which to adjust transparency.**
- 2 Click the [Fill color] tree on the properties bar.**
- 3 Move the [Transparency] slider to adjust transparency.**

Pasting Texture

You can paste a texture file onto a text object.

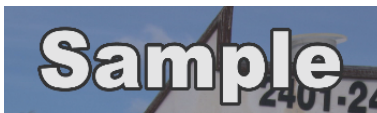


- 1 Select a text object in which to paste texture.**
- 2 Click the [Fill color] tree on the properties bar.**
To paste the texture on the edge (border), click the [Edge] tree (for objects, click the [Border / Line Shape] tree).
- 3 Check [Texture File], and click [...].**
- 4 Select the image file to be pasted, and click [Open].**

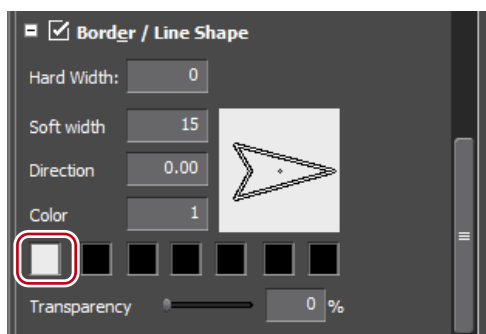
- 👉 • File formats that can be used for texture mapping are as follows:
 - Windows Bitmap (*.bmp, *.dib, *.rle)
 - GIF format (*.gif)
 - JPEG format (*.jpeg, *.jpg)
 - PNG format (*.png)
 - TIFF format (*.tiff)
 - Windows Extended Metafile (*.emf, *.wmf)
 - Photoshop format (*.psd)
 - Targa format (*.tga, *.targa, *.vda, *.icb, *.vst)

Edge (Border) Settings

You can set the color of or paste a texture to text and object borders.



- 1 Select a text object on which to apply an edge (border).
- 2 Click the [Edge] tree on the properties bar, and check it.
[Borders] is displayed on the image properties bar, [Border / Line Shape] is displayed on the object properties bar.
- 3 Click the color palette.



The [Color Select] dialog box appears.

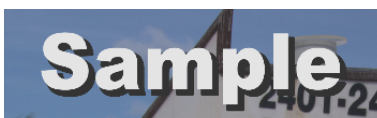
[Color Select] Dialog Box ▶ P193

- 4 Specify a color.
- 5 Enter a value in [Hard width] to specify a width for the edge (border).
- 6 Enter a value in [Soft width] to specify the blur for the edge (border).

- 👉 • You can also set gradation, paste a texture or adjust transparency.
 - Gradation Settings ▶ P387**
 - Pasting Texture ▶ P388**
 - Transparency Settings ▶ P388**

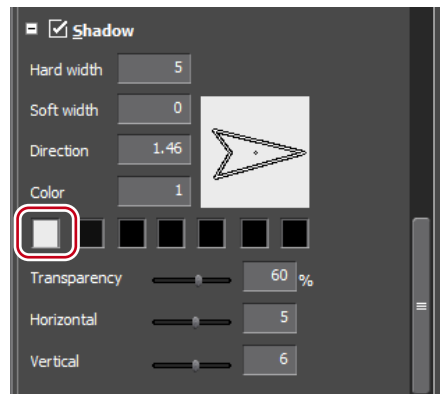
Shadow Settings

You can apply shadow to text objects.



- 1 Select a text object on which to apply shadow.
- 2 Click the [Shadow] tree on the properties bar, and check it.

3 Click the color palette.



The [Color Select] dialog box appears.

[Color Select] Dialog Box ▶ P193

4 Specify a color.

5 Enter a value in [Hard width] to specify a width for the shadow.

6 Enter a value in [Soft width] to specify the blur for the shadow.

7 Move the [Horizontal] and [Vertical] sliders to adjust the position of the shadow.

8 Move the [Transparency] slider to adjust the shadow transparency.



- A gradation effect can be applied to a shadow.

Gradation Settings ▶ P387

Emboss Settings

An emboss effect can be applied to text objects.



Note

- You cannot apply an emboss effect to images.



1 Select a text or shape where emboss is applied.

2 Click the [Emboss] tree on the properties bar, and check it.

3 Click [Inside] or [Outside].

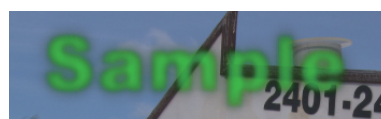
For shapes, [Inside] and [Outside] are displayed.

4 Enter values for [Angle] and [Edge Height] to specify the degree of emboss.

5 Set the light source position.

Blur Settings

You can apply a blur effect to text object borders.



1 Select a text object on which to apply blur.

2 Click the [Blur] tree on the properties bar, and check it.

3 Move the sliders to adjust the blur.

Move the slider or enter a value for following properties; [Text / Edge] to apply the blur to a text string and the edge, [Edge] to apply to the edge only, and [Shadow] to apply to the shadow only.

[Image / Border], [Border] and [Shadow] are displayed on the image properties bar.

[Shape / Border], [Border] and [Shadow] are displayed in the object properties bar.

Roll/Crawl Settings

You can set an action that moves a text object horizontally/vertically.

Clicking the background will display the background properties.

1 When the background properties bar is displayed, select an action from the [Title type] list.

[Title type]	Select an action for the text. Roll moves vertically and crawl moves horizontally.
[Number of pages]	Displays the number of pages that the text object moves across, where 1 page represents the range of the display area. A vertical scroll bar appears for 2 or more pages. A white dotted line is shown at page breaks, though it is not shown in the actual video.



- Roll/crawl settings such as the start point or end point are performed from the timeline in EDIUS.

Detailed Title Settings ► P393

- The roll/crawl speed depends on the number of pages and the length of the title clip. Shorten the length of the title clip for a quick roll/crawl. Extend the length of the title clip for a slow roll/crawl. Set the title clip length on the timeline in EDIUS.

Registering an Edited Effect

Applying a Style

Effects can be applied to the title simply by applying registered style chips.

1 Select the text object on which to apply a style.

2 Double-click the style chip on the title object style bar you want to apply.

Example:

Applying a text style



Alternative

- Select the style chip to be applied, click [Style] on the Quick Titler menu bar, and then click [Apply Style].
- Select the style chip to be applied, right-click the text object and then click [Style] → [Apply Style].

Registering a Style

You can register the effect applied to a text object as a style chip.

1 Select the text object on which effects have been applied.


2 Click [New Style] on the file tool bar.



Alternative

- Click [Style] on the Quick Titler menu bar, and click [Save As New Style].
- Right-click a text object on which effects have been applied, and click [Style] → [Save As New Style].
- Right-click the title object style bar and click [Save As New Style].

3 Enter a file name and click [OK].

-  • If the style name exists, the style cannot be registered. Register with a different name.

Changing the Style Name

You can change the name of a created style chip.


1 Select the style chip to have its name changed.

2 Click [Style] on the Quick Titler menu bar, and click [Change Style Name].

Alternative

- Right-click the registered style chip, and click [Change Style Name].

3 Enter a new name.

-  • You can only change the names of registered style chips.

Deleting a Style

You can delete a created style chip.

1 Select a style chip to be deleted.

2 Click [Style] on the Quick Titler menu bar, and click [Delete Style].

Alternative

- Right-click the registered style chip, and click [Delete Style].

-  • You can only delete registered style chips.

Setting Effects

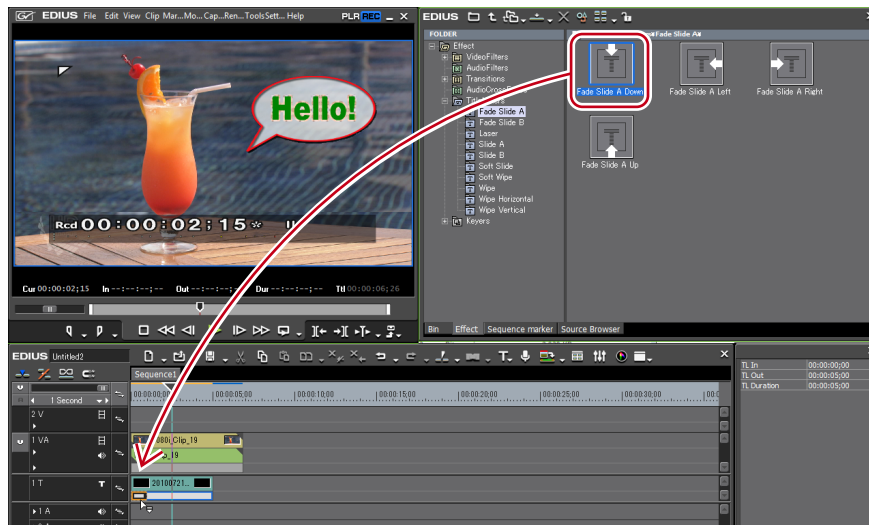
Applying an Effect to a Created Title

Applying a Title Mixer

You can apply various effects for showing or hiding the title.

Effects available to be applied to a title clip are saved in the title mixer of the [Effect] palette.


- 1 Select a particular effect from title mixers in the [Effect] palette.
- 2 Drag the effect to the mixer area below a title clip that is placed on the timeline.



Move the timeline cursor over the title clip to confirm the effects applied.

Alternative

- Select the mixer area of a title clip. Right-click the desired title mixer from the [Effect] palette, click [Add to Timeline] and then click the position in which to add it from [In], [Out] and [Both].
- Select the mixer area of a title clip, and then drag and drop the desired title mixer from the [Effect] palette onto the effect list of the [Information] palette.

-  • When placing a title clip, the default title mixer is set automatically. You can change the automatic setting of the title mixer from [Source] in [User Settings] → [Duration].

Changing Default Effects ▶ P341

[Duration] ▶ P97

Setting the Size and Movement of a Title

Detailed Title Settings

You can set whether to resize a title clip to fit the project frame size. Also, if a roll/crawl movement is applied for a title clip, you can set whether to start from outside the screen or inside the screen.

- 1 Right-click the title clip, and click [Title detail setting].

The [Title detail setting] dialog box appears.

[Title detail setting] Dialog Box

[Resize title]	<p>Select whether to resize a title clip to fit the screen.</p> <p>[Auto] Displays the title clip at the same size as the frame size according to project settings. The title clip will resize to fit the project setting even if, after a title clip has been placed on the timeline, the frame size is then changed in the project setting.</p> <p>[Don't resize(Title size)] Displays the title clip at the same size as the frame size when the title was created. The title clip will not resize to fit the project setting if the frame size in the project setting is changed after a title clip has been placed on the timeline.</p>
[Roll/Crawl setting]	<p>[Start] Select from the list where to start movement of a text object. [Outside] starts movement of a text object from off the screen. [Inside] starts movement of a text object from within a screen as the text object resides inside the 1st page of the screen. With [Position] you enter the position where a roll/crawl starts in the entry field on the right.</p> <p>[End] Select from the list where to end movement of a text object. [Outside] continues roll/crawl until all text objects have left the screen. [Inside] ends roll/crawl at the last page of the text object at the time point displayed in the screen. With [Position] you enter the position where the last page of the text objects completes its roll/crawl in the entry field on the right.</p> <p>[In] Enter the number of frames a text object is held for until it starts to move.</p> <p>[Out] Enter the number of frames a text object is held for after roll/crawl.</p>



- Roll/crawl settings can only be changed if roll/crawl is applied to the text in a title clip. Roll/crawl settings cannot be changed if the title type is [Still Image]. For details on title types, see "Roll/Crawl Settings".

Roll/Crawl Settings ▶ P391

Title Position Adjustment

Adjusting the Created Title Position

Layout Settings

You can adjust the title position as displayed on the screen from the title clip placed on the timeline.

1 Right-click the title clip, and click [Layouter].

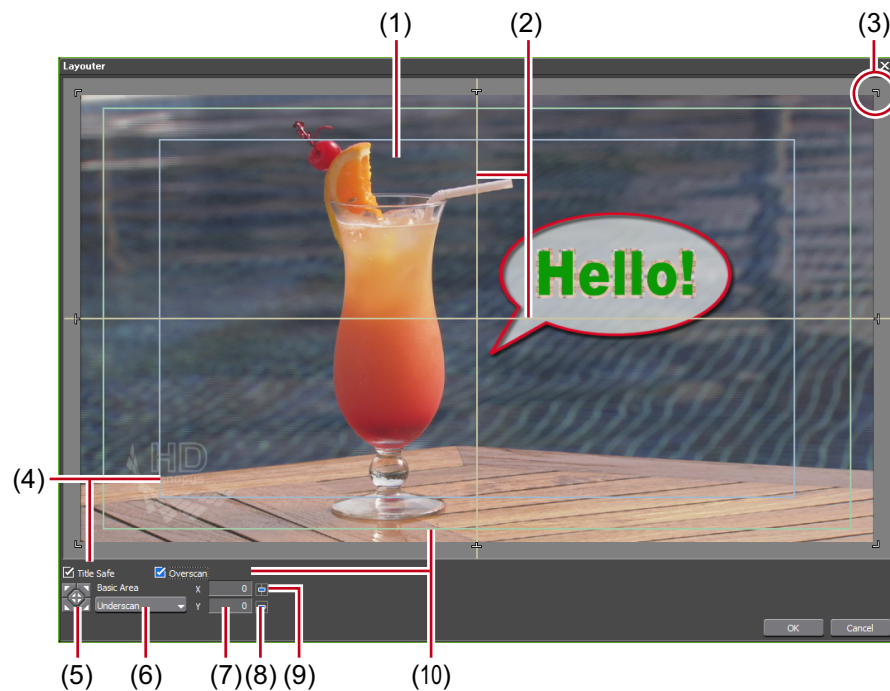
The [Layouter] dialog box appears.

[Layouter] Dialog Box ▶ P395

2 Set the title layout, and click [OK].

The layout is saved.

[Layouter] Dialog Box



(1)	Layout preview	Displays the setting a preview
(2)	Horizontal guide, Vertical guide	Indicates the horizontal, vertical or center.
(3)	Title frame	Indicates the edge of the created title.
(4)	[Title Safe]	Check this item to display the title safe area.
(5)	Position fit	Fit the title frame to the center or to the corner of the area selected with [Basic Area].
(6)	[Basic Area]	Select the area to be fitted to with the fit position buttons from the list.
(7)	Position entry fields	Enter X, Y values to specify the position.
(8)	Horizontal fit	Fit the title to the horizontal center.
(9)	Vertical fit	Fit the title to the vertical center.
(10)	[Overscan]	Check this item to display the overscan area.

CHAPTER 10

Audio Operations

This chapter explains how to adjust the volume on a clip/track and how to add narration, etc.

Volume/Pan Adjustment

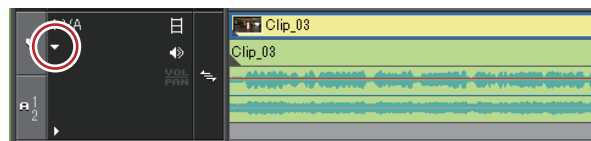
Adjusting the Volume and Pan of a Clip

Adding a Rubber Band Point

Two rubber bands are displayed on audio clips placed on the timeline; a volume rubber band (orange line) used to adjust volume and a pan rubber band (blue line) used to change the L/R stereo balance. Rubber band points can be added to adjust the shape of the rubber band.

1 Click the expand button for the audio on the track panel.

The track expands and the rubber band and the waveform are displayed. For stereo audio, a waveform is displayed in each channel.



Alternative

- Expanded display of audio: [Alt] + [S]

2 Click [Volume/Pan].

Clicking it switches between Volume, Pan and Lock.

Volume/Pan Rubber Band ▶ P399

3 Click on a rubber band in the position where you want to apply a change.

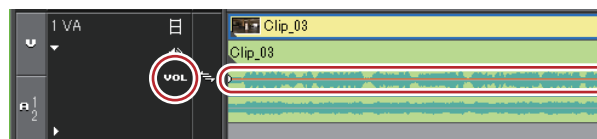
A point is added that is used to adjust the volume or pan.

Alternative

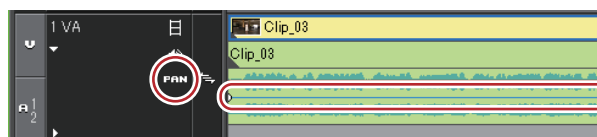
- Right-click a rubber band in the position you want to add a point, then click [Add/Delete].

Volume/Pan Rubber Band

Volume rubber band (orange line)



Pan rubber band (blue line)



Adjusting the Rubber Band

You can adjust the volume and pan of a clip. You can also adjust the volume and the pan along to the time axis by adjusting the shape of the relevant rubber band.

Adjusting Using a Point

- 1 Display the volume rubber band or the pan rubber band, and add a rubber band point.

Adding a Rubber Band Point ▶ P399

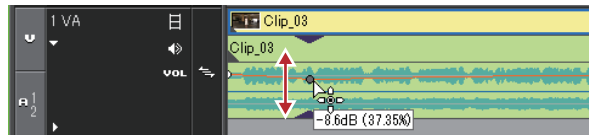
- 2 Drag the point vertically or horizontally.

Fine adjustments can be made by dragging the point with [Ctrl] on the keyboard held down.

You can adjust the whole rubber band by dragging the point with [Alt] on the keyboard held down.

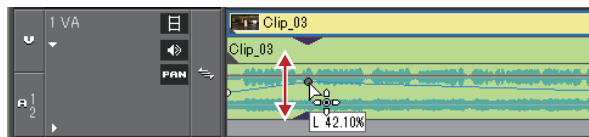
For volume points

Drag a point upwards to increase the volume, and downwards to decrease the volume.



For pan points

Drag a point upwards or downwards to adjust the L/R balance of the stereo. Drag the point upward to spread the sound to the left side, and downward to spread the sound to the right side.



Adjusting between 2 Points

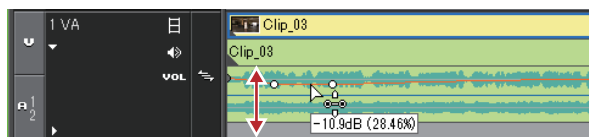
- 1 Display the volume rubber band or the pan rubber band, and add a rubber band point.

Adding a Rubber Band Point ▶ P399

- 2 Drag the rubber band between 2 points up or down with [Shift] on the keyboard held down.

The pointer shape will change to shift the rubber band up or down between the 2 points.

Fine adjustments can be made by dragging with [Shift] + [Ctrl] on the keyboard held down.



Also, by dragging with [Alt] on the keyboard held down, you can automatically add a new point between the 2 other points and move it in parallel. You can set how many frames within 2 points at either end an automatically added point is placed using [Source] in [User Settings] → [Duration].

[Duration] ▶ P97

Adjusting a Whole Rubber Band

- 1 Display the volume rubber band or the pan rubber band.

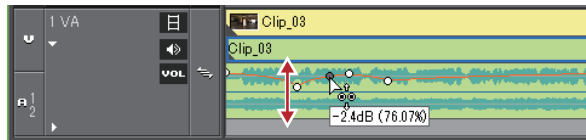
Adding a Rubber Band Point ▶ P399

2 Drag a rubber band or rubber band point up or down with [Shift] + [Alt] on the keyboard held down.

The pointer shape will change and the whole rubber band can be adjusted.

All other other points will move proportionately according to the amount the selected rubber band or point is varied.

Fine adjustments can be made by dragging with [Ctrl] on the keyboard held down.



Adjusting by Entering Values

You can adjust a rubber band by entering values.

1 Display the volume rubber band or the pan rubber band.

Adding a Rubber Band Point ▶ P399

2 Right-click a rubber band point, and click a method by which to adjust.

[Move]	Adjust the volume or timecode of a selected point.
[Move two aligning points]	Move the rubber band that is between a selected point and the next point to the right of the selected point horizontally and in proportion according to the amount the selected point is varied. Adjusting the Rubber Band ▶ P399
[Add points and move]	Add 2 new points between the selected point and the next point to the right, and move the rubber band between the 2 added points horizontally and in proportion according to the amount the 2 added points are varied. Adjusting the Rubber Band ▶ P399
[Move All]	Move other points in proportion according to the amount the selected point is varied.
[Move All On Scale]	Adjust the volume of all points proportionally. [Shift] + [Alt] + [Y]

The value input dialog box appears.

3 Enter values.

Entry of Values ▶ P33

4 Click [OK].

Aligning the Pan Rubber Band to the Center

The sound level can be adjusted to make L/R equal.

1 Display the pan rubber band.

Adding a Rubber Band Point ▶ P399

2 Right-click the pan rubber band, and click [Center].

All rubber band points are deleted and the rubber band is centered.

Clicking [L] or [R] will delete all rubber band points and adjust the rubber band to L or R.

Initializing/Deleting Rubber Band Points

You can delete or initialize a specific rubber band.

Deleting All Rubber Band Points in a Clip

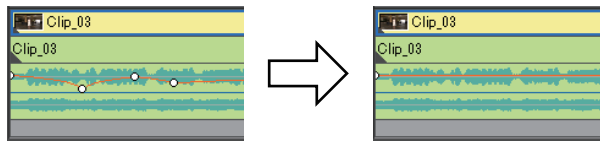
1 Display the volume rubber band or the pan rubber band.

2 Right-click the rubber band, and click [Delete All].

All points are deleted and the entire rubber band is initialized.

Example:

For [Volume]



Alternative

- Right-click a clip, and click [Delete Parts] → [Audio Rubber Band] → [Volume] or [Pan].
- Select a clip, click [Edit] on the menu bar, and click [Delete Parts] → [Audio Rubber Band] → [Volume] or [Pan].
- Deleting a volume rubber band: [Shift] + [Alt] + [H]
- Deleting a pan rubber band: [Ctrl] + [Alt] + [H]



- The following procedures initialize only the position of a rubber band, leaving rubber band points in place on the rubber band.
 - Right-click a rubber band, and click [Initialize All].
 - Initializing rubber band: [Shift] + [Ctrl] + [U] (Perform procedure after selecting the desired rubber band.)

Deleting a Selected Rubber Band Point

1 Display the volume rubber band or the pan rubber band.

Adding a Rubber Band Point ▶ P399

2 Right-click a rubber band point, and click [Add/Delete].

Alternative

- Select a rubber band point and press [Delete] on the keyboard.

Adjusting Volume/Pan with the Audio Mixer

Adjusting with the Audio Mixer

The audio mixer can be used to adjust the volume of a clip, each track or all tracks while the timeline is playing. The level meter display can be switched between a peak meter or VU meter.

When the fader is operated with learning, after a point is added to the rubber band the point can be edited.

Adjusting the Rubber Band ▶ P399

Volume Adjustment

1 Click [Toggle Audio Mixer Display] of the timeline.



The [Audio Mixer] dialog box appears. The meter displayed (peak meter or VU meter) is the meter used in the [Audio Mixer] dialog box the last time it was closed.

[Audio Mixer] Dialog Box ▶ P403

Alternative

- Click [View] on the menu bar, and click [Audio Mixer].

2 Click [Settings], and click [Peak meter] or [VU meter].

Display the peak meter to adjust momentary sounds and other sounds difficult for humans to hear, and display the VU meter to adjust sounds as they are heard by humans.

3 Click the operation setting for the track for which the volume is to be adjusted, and select an item.

To adjust the volume of an entire track click the master operation setting and click [Master].

To adjust the volume on individual tracks click the operation setting for each track and select what is to be adjusted ([TrackNo] or [Clip]).

To adjust using the learning function, select the learning mode from [Latch], [Touch] and [Write].

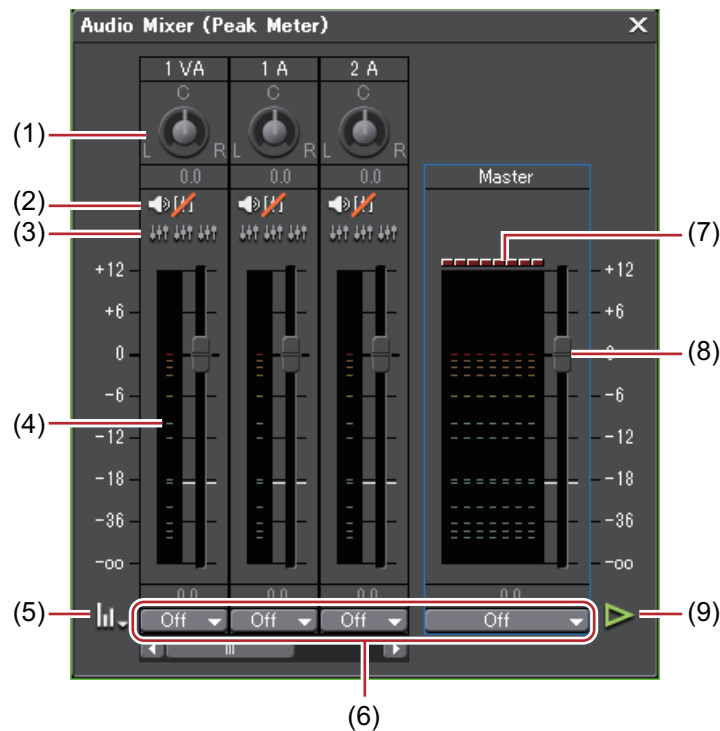
4 Move the timeline cursor to the position to start playing, and click [Play] in the [Audio Mixer] dialog box.**5 Drag the fader to adjust volume.**

When operating in learning mode points are added to the rubber band of a clip. To redo an adjustment, either overwrite in [Write] mode or delete an entire rubber band.

Deleting All Rubber Band Points in a Clip ▶ P401**Alternative**

- Volume adjustment (1 dB increments): [↑]/[↓]
- Volume adjustment (0.1 dB increments): [Shift] + [↑] / [Shift] + [↓]

- An optional fader controller can be used to operate the fader. See the manual included with the product for instructions on use.

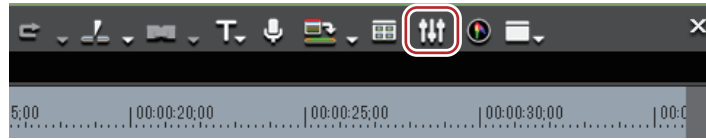
[Audio Mixer] Dialog Box

(1)	Pan control	Control the pan.
(2)	[Mute]/[Solo]	Toggle mute on a track. <i>Playing/Muting a Specific Track Only ▶ P406</i>
(3)	[Gang]	Connect to a fader. <i>Adjusting while Maintaining Volume Difference ▶ P405</i>
(4)	Level meter	Displays a level meter.

(5)	[Settings]	<p>[Peak meter] Check momentary changes in the audio signal visually. The gradation is displayed as a full scale.</p> <p>[VU meter] Displays the average volume of an audio signal. The audio signal can be checked in a display that shows what is close to what is heard by the human ear. The gradation is displayed as an audio reference scale.</p> <p>[Keep operation setting] Even if playback is stopped during learning, learning mode (operation setting) is maintained and the operation setting does not return to off. Closing the [Audio Mixer] dialog box returns the [Keep operation setting] setting to off.</p>
(6)	Operation setting	<p>Switch the volume adjustment learning mode (operation setting) or the subject of volume/pan adjustment from the list. Setting to any of [Latch], [Touch] or [Write] sets the learning mode so points are added to the rubber band. Pan cannot be adjusted in learning mode. The master operation setting can be only [Master] or [Off].</p> <p>[Master] Adjust the volume of a whole track.</p> <p>[Track] Update individual tracks with pan control and fader operations. Learning is not implemented.</p> <p>[Clip] The clip where the timeline cursor is positioned is updated with pan control and fader operations. The rubber band is updated with operations. If a rubber band point is set, pan updates as "Move All" and volume updates as "Move All On Scale". However, if the value is $-\infty$ at the beginning of the operation, the setting will be updated as "Move All". Learning is not implemented.</p> <p>[Off] Lock the pan control and fader.</p> <p>[Latch] Implement learning from the time point where the fader starts to be dragged up to where playback is ended.</p> <p>[Touch] Implement learning from the position where you start dragging the fader until it is released. Release the mouse to return the fader to the original volume automatically.</p> <p>[Write] Implement learning through the entire playback. Differing from [Latch] or [Touch], all the previously used volume values are overwritten regardless of dragging/releasing the fader.</p>
(7)	Level over indicator	Illuminate when the level is over. Click to turn the light off.
(8)	Fader	Drag up and down to adjust the volume.
(9)	[Play]	Play the timeline from the timeline cursor position.

Pan Adjustment

- 1 Click [Toggle Audio Mixer Display] of the timeline.



The [Audio Mixer] dialog box appears.

[Audio Mixer] Dialog Box ▶ P403

Alternative

- Click [View] on the menu bar, and click [Audio Mixer].

- 2 Click the operation setting for the track for which the pan is to be adjusted, and select [Track] or [Clip].
Click [Track] to adjust pan on each track and click [Clip] to adjust pan for each clip at the timeline cursor position.

- 3 Move the mouse cursor over the pan control and drag when the mouse cursor changes shape.



Dragging up or to the right adjusts to the right side, and dragging down or to the left adjusts to the left side.

Alternative

- Pan adjustment (1 dB increments): [←]/[→]
- Pan adjustment (0.1 dB increments): [Shift] + [←] / [Shift] + [→]



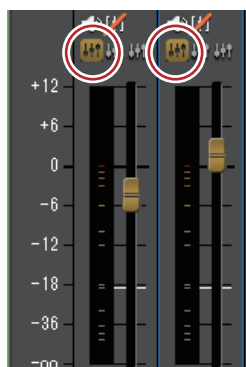
- When you right-click the [Audio Mixer] dialog box of an individual track and click [Reset], the volume and pan settings, connection settings, mute/solo settings and operation mode of the track are reset. To reset the settings of all tracks, right-click the [Audio Mixer] dialog box and click [Reset All].
- Performing [Reset] or [Reset All] does not reset the volume or pan settings for clips.
- The [Audio Mixer] dialog box size can be adjusted. Move the cursor to the left or right edge of the [Audio Mixer] dialog box and when the cursor shape changes, drag to adjust the size. After adjusting the size, the [Audio Mixer] dialog box will display at the same size upon reopening.

Adjusting while Maintaining Volume Difference

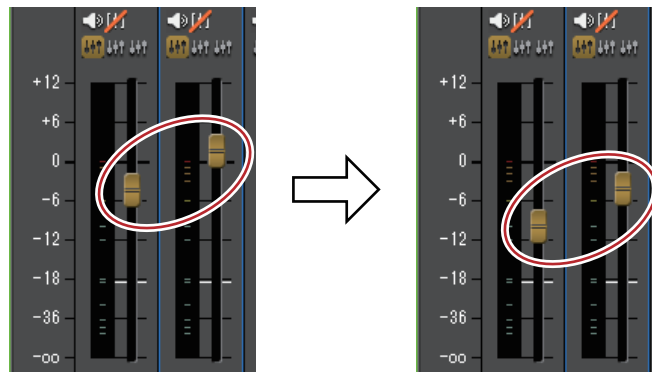
The controllers for fader and pan adjustment can be linked across multiple tracks. Three link patterns can be set: [Gang1] (yellow), [Gang2] (red) and [Gang3] (blue).

- 1 Click [Gang] on each track to be adjusted simultaneously in the [Audio Mixer] dialog box.

The fader color changes according to the color of each [Gang].



2 Adjust single fader (controller) from among the linked faders (controllers).



Tracks with faders in the same color are adjusted while maintaining the differences between each volume.

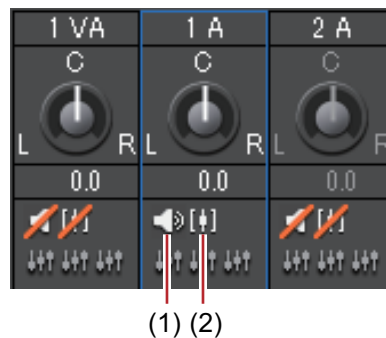
- Before operating the fader (controller), from among the linked tracks, set [Operation] for the tracks you want to link to other than [Off].

Playing/Muting a Specific Track Only

Audio playback can be restricted to a specific track. Specific tracks can also be muted.

1 In the [Audio Mixer] dialog box, click [Mute] or [Solo] for the track (or tracks) to be played.

Clicking [Mute] will mute selected tracks. Click [Solo] to play back audio of the selected track only.



- (1) Mute
- (2) Solo

Normalizing the Audio of Multiple Clips

Applying Normalize to Multiple Clips

You can set a reference audio level for multiple desired clips and adjust the audio levels together. When normalize is applied to multiple clips, the gain value is adjusted to adjust each clip to a proper audio level.

Checking and Changing the Gain Value of Clips ▶ P407

- Normalize cannot be applied to the following clips.
 - Timeline sequence clips
 - Clips being edited with a time difference
 - Proxy clips
- During normalization processing, how much time is used as a sample from which to calculate an output value can be set. You can change the setting from [Source] in [User Settings] → [Automatic Correction].

[Automatic Correction] ▶ P98

1 Select the clips to be normalized.

2 Click [Clip] on the menu bar, and click [Normalize].

The [Normalize] dialog box appears.

Alternative

- Right-click a clip and click [Normalize].

3 Enter the audio level to be used as reference, and click [OK].

The initial level setting will be the [Audio reference level] in the project setting.

When normalize is applied, an orange line will be displayed in the area below the audio part of the clip.

Checking and Changing the Gain Value of Clips

The gain value of clips can be checked and changed.

1 Select the clip for which the gain value will be confirmed or changed.**2 Click [Clip] on the menu bar, and click [Properties].**

The [Properties] dialog box appears.

Alternative

- Right-click a clip and click [Properties].

3 Click the [Audio info] tab.

The gain value of the clip is displayed next to [Gain].

4 Enter a gain value, and click [OK].

- The normalize gain value can also be confirmed in the detailed display of the bin and the [Information] palette.
- When a clip on which the gain value has been changed on the timeline is registered in the bin, the changed gain value will be maintained.
- The change in gain will not be updated if, for example, you display the clip on the Player and remap it to the timeline from the Player after changing the gain value of each clip on the timeline as the followings.
 - (1) For an audio 1ch and video 2ch clip, map the V channel and A1 channel to the 1VA track, and A2 channel to the 1A track.
 - (2) Change the gain of the 1VA track clip to 5 dB, and the gain of the 1A track clip to 10 dB.
 - (3) Display the clip of the 1VA track on the Player with double-click.
 - (4) Place the clip on the Player again with the same mapping setting (mapping the V channel and A1 channel to the 1VA track, and A2 channel to the 1A track).

At this time, the gain value of the clip placed in the 1VA track is 5 dB, but the change in the gain value of the clip placed in the 1A track is not reflected, and it becomes 0 dB.

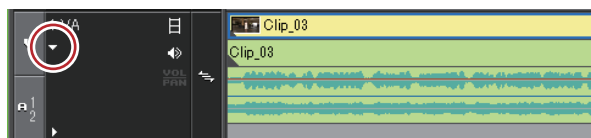
Partially Muting

Showing Waveforms

To conceal noise, etc., operate while viewing the waveform.

1 Click [Audio] on the track panel.

The track is expanded and the audio rubber band and the waveform are displayed. For stereo audio, a waveform is displayed in each channel. You can detect noise, etc. by reviewing the waveform range and the sound actually being played back.



- The waveform display can be changed from [Application] in [User Settings] → [Timeline].

[Timeline] ▶ P90

V-mute Settings

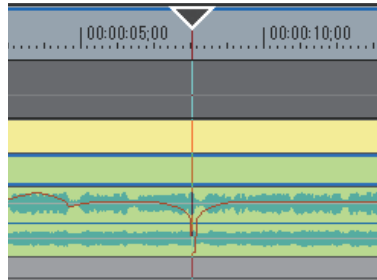
Fade in or fade out before and after a single central point to conceal noise, etc.

1 Move the timeline cursor to a position where the volume is zero.

Confirm the shape of the waveform display, and adjust the position of the timeline cursor.


2 Right-click the clip on which V-mute is to be applied, and click [V-Mute].

The volume at the position of the timeline cursor becomes zero, and four points are added on the volume rubber band with the timeline cursor at their center.



Alternative

- V-mute settings: [Shift] + [V]

-  After setting V-mute, drag a point on the volume rubber band left and right for fine adjustment of mute duration. *Adjusting the Rubber Band* ▶ P399
 - The default duration for V-mute can be changed from [Source] in [User Settings] → [Duration]. *[Duration]* ▶ P97

Measuring Volume

In digital broadcasts, volume adjustment based on “loudness” is required for the purpose of suppressing variance in the volume between programs and broadcasting stations. Loudness is a numerically converted value of the sound level sensed by humans.

EDIUS can measure the size of noise compliant with the ITU-R BS.1770-2 and EBU R128 loudness standards.

Measuring the Loudness of Sequences

The loudness of the current sequence can be measured.

1 Click [View] on the menu bar, and click [Loudness Meter].


The [Loudness Meter] dialog box appears.

[Loudness Meter] Dialog Box ▶ P409

2 Select [ITU-R BS.1770-2] or [EBU R128] from the list of loudness standards, and click [Settings].

The [Loudness Meter Settings] dialog box appears.

[Loudness Meter Settings] dialog box ▶ P410

-  You can also select the registered preset. *[Loudness Meter]* ▶ P77

3 In [Measurement Group 1] ([Measurement Group 2] if necessary), set where L/R/C/LS/RS channels are to be remapped, and click [Settings].

4 Move the timeline cursor to the position to start playback.

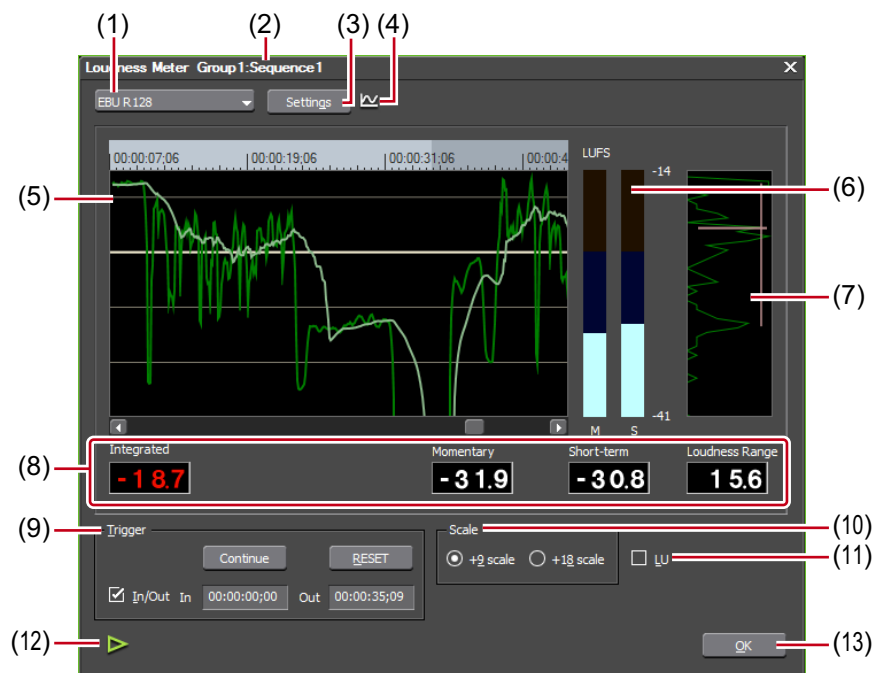
5 Click [Play] in the [Loudness Meter] dialog box, and click [START] when measurement is started.

The loudness measurement value is displayed as a chart or numerical value.

To stop measurement during playback, click [Pause]. Clicking [Continue] resumes measurement. Click [RESET] to reset measurement.

- During measurement, volume in the part where exceeding the target level can be adjusted with the audio mixer.
Adjusting Volume/Pan with the Audio Mixer ▶ P402

[Loudness Meter] Dialog Box




(1)	Loudness standard	Select the preset or the standard to be used for loudness measurement from the list.
(2)	Measurement target	Displays the sequence name and measurement group to be measured.
(3)	[Settings]	View the settings of loudness standards and set the output channels for L/R/C/LS/RS channels. <i>[Loudness Meter Settings] dialog box</i> ▶ P410
(4)	Switch measurement group	The icon is displayed when two measurement groups have been set. Click this to switch the measurement group.
(5)	History display	Display the measurement result as a chart. The momentary value is displayed in green, and the short term value is displayed in light blue. Click anywhere on the time scale and you can move to the clicked timecode position. Press [I] or [O] on the keyboard anywhere on the time scale to set the In or Out point.
(6)	Level meter	Display the momentary (M) and short time (S) level.
(7)	Loudness range	Displayed when measurement is being performed by EBU R128. A distribution based on the loudness measurement values of the history display is displayed. When measurement ends, the loudness range and average level are displayed on the distribution.

(8)	Measurement value	<p>[Integrated] Displays the average loudness value of the measured time in real time. Loudness values are displayed in red when the target level is exceeded.</p> <p>[Momentary] Displays the average loudness value of 400 ms in real time.</p> <p>[Short-term] Displays the average loudness value of 3000 ms in real time.</p> <p>[Loudness Range] Displayed when measurement is being performed by EBU R128. Display the width of loudness measurement values.</p>
(9)	Trigger	<p>[START]/[Pause]/[Continue] Start, pause or restart measurement.</p> <p>[RESET] Reset the measurement results.</p> <p>[In/Out] Check this item to automatically measure between In and Out points during playback. The timecode can be entered to change the In/Out points.</p>
(10)	Scale	Change the scale of the Y axis of the history display when measurement is being performed by EBU R128.
(11)	LU	Check this item to switch the display unit to LU. Uncheck this item to switch the display unit to LUFS/LKFS.
(12)	[Play]	Play back timelines. Clicking this during playback stops playback.
(13)	[OK]	Close the dialog box.

[Loudness Meter Settings] dialog box

[Mode]	<p>Select the loudness standard to check the settings from the list.</p> <p>[Block Scale Momentary] Display the measurement time of the momentary value.</p> <p>[Block Scale Short-term] Display the measurement time of the short time value.</p> <p>[Overlap] Display the overlap value.</p> <p>[Gating threshold] Display the relative gating block level.</p> <p>[Target] Display the gating level.</p>
[Measurement Group 1]/ [Measurement Group 2]	<p>Set which output channel to assign the L/R/C/LS/RS channel to. Both [Measurement Group 1] and [Measurement Group 2] can be set so that measurement is performed on two lines simultaneously.</p> <p>[Downmix] Select the downmix calculation formula from the list.</p>
[default]	Return settings to their defaults.

-  • Both [Measurement Group 1] and [Measurement Group 2] can be set so that measurement is performed as follows.
 - The loudness values of 2ch and 5.1ch can be measured together. (For example, set L-ch1, R-ch1 and [Downmix]- No to [Measurement Group 1], and L-ch3, R-ch4, C-ch5, LS-ch7, RS-ch8, and [Downmix]- No to [Measurement Group 2].)
 - 5.1ch output and the downmix processing result can be measured together. (For example, set L-ch1, R-ch2, C-ch3, LS-ch5, RS-ch6, and [Downmix] - [No.] to [Measurement Group 1], and set L-ch1, R-ch2, C-ch3, LS-ch5, RS-ch6, and [Downmix] - [Equation - 2] to [Measurement Group 2].)
 - In mono measurement, the same output channel is assigned to both L/R.

Measuring Loudness between In and Out points on the Timeline

Measure the loudness between In and Out points on the timeline.

1 Set the In and Out Points to the timeline.

Setting the In and Out Points on the Timeline ▶ P227

2 Click [View] on the menu bar, and click [Loudness Meter].

The [Loudness Meter] dialog box appears.

[Loudness Meter] Dialog Box ▶ P409

3 Select [ITU-R BS.1770-2] or [EBU R128] from the list of loudness standards, and click [Settings].

The [Loudness Meter Settings] dialog box appears.

[Loudness Meter Settings] dialog box ▶ P410



- You can also select the registered preset.

[Loudness Meter] ▶ P77

4 In [Measurement Group 1] ([Measurement Group 2] if necessary), set where L/R/C/LS/RS channels are to be remapped, and click [Settings].

5 Check [In/Out] in the [Loudness Meter] dialog box.

Enter the timecode in [In] or [Out] to change the In/Out points.

6 Click [Start] in the [Loudness Meter] dialog box, and click [Play].

Playback starts from the position 3 seconds before the In point on the timeline, and the loudness measurement value is displayed as a chart or numerical value.



- During measurement, volume in the part where exceeding the target level can be adjusted with the audio mixer.

Adjusting Volume/Pan with the Audio Mixer ▶ P402

Measuring the Loudness of Clips

The loudness of clips in the bin can be measured.

1 Right-click a clip in the bin, and click [Loudness Measurement].

The [Loudness Measurement] dialog box appears.

2 Select [ITU-R BS.1770-2] or [EBU R128] from the list of loudness standards, and click [Settings].

The [Loudness Meter Settings] dialog box appears.

[Loudness Meter Settings] dialog box ▶ P410



- You can also select the registered preset.

[Loudness Meter] ▶ P77

3 In [Measurement Group 1] ([Measurement Group 2] if necessary), set where L/R/C/LS/RS channels are to be remapped, and click [Settings].

4 Move the timeline cursor to the position to start playback.

5 Click [In/Out] or [Entire File] at [Trigger], and click [OK].

The loudness measurement starts.

When measurement completes, the [Loudness Meter] dialog box appears. The loudness measurement value is displayed as a chart or numerical value.

[Loudness Meter] Dialog Box ▶ P409



- During measurement, volume in the part where exceeding the target level can be adjusted with the audio mixer.
Adjusting Volume/Pan with the Audio Mixer ▶ P402

Adding and Editing Audio

Adding Narration and Effects

Addition of Speech with Voice Over

Voice over is a function for adding narration or sound effects while previewing a timeline clip. You can add audio (sound effect) while previewing a scene.

Note

- For microphones or other voice entry devices the device preset must be set in advance.
Registering Device Presets ► P106

1 Map the audio channel and set an In point at the position in which to place the audio.

Setting Channel Mapping ► P225

Setting the In and Out Points on the Timeline ► P227

2 Click [Toggle Voice Over Display] of the timeline.



The [Voice Over] dialog box appears.

Alternative

- Click [Capture] on the menu bar, and click [Voice Over].

3 Select a preset from the [Device Preset] list.

The device preset must be set in advance. The preset cannot be selected if only one preset is registered.

Registering Device Presets ► P106

4 Adjust the volume of the source data with the [Volume] slider.

Adjust the level meter visually so that the volume does not exceed 0 dB.

5 Select [Track] from the [Output] list.

[Bin]	Add the audio clip only to the bin.
[Track]	Add the audio clip both to the A track specified in step 1 and to the bin.

6 Enter a file name, and click [...] to specify the save destination.

7 Click [Start].

The white circle in the upper left of the Recorder blinks to start the count down. The white circle turns red when recording starts. If there is an audio clip on the export destination track, the audio on the track will mute at the same time as audio recording begins.



- The time taken between clicking [Start] and the start of recording changes according to the time set in [Application] in [System Settings] → [Margin] in [Capture], and [Preview] in [User Settings] → [Preroll Time] in [Playback].

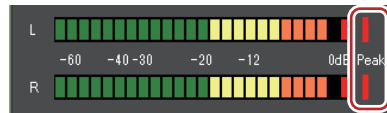
8 Click [End].

Clip playback and audio data creation are stopped and a dialog box appears to confirm whether to add the created file.

9 Click [Yes].

The audio clip is placed and data saved.

- The white line on the right side of the level meter changes to red when the volume exceeds 0 dB. Clicking the line returns it to its original setting.



- If playback of the timeline does not stop in time, recording is also stopped.

Playback with Shifted Audio

Offset of Audio

The timing of video and audio playback can be adjusted by sample increments.

1 Select a clip, and click [Clip] on the menu bar → [Audio Offset].

Multiple clips can also be selected.

The [Audio Offset] dialog box appears.

[Audio Offset] Dialog Box ▶ P414

Alternative

- Right-click a clip and click [Audio Offset].

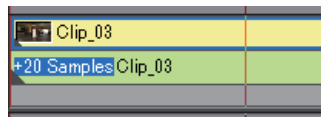
Note

- Audio offset cannot be applied if multiple clips of differing sampling rate are selected.

2 Select the direction of movement and enter the offset.

3 Click [OK].

When offset has been applied to a clip, the offset value is displayed in blue at the start of the clip.



Waveforms will also update with the applied audio offset.

- If the link between video and audio is not in sync, the number of frames they are out of sync will be displayed with priority.

Unlinking Clips ▶ P238

[Audio Offset] Dialog Box

[Direction]	Select whether to delay the audio compared to video, or advance the audio compared to video.
[Offset]	Enter a value by which to delay or advance. Values can be entered by sample increments or seconds.

CHAPTER 11

Export of Edited Contents

This chapter explains methods of exporting projects on which editing is complete. You can export in a variety of file formats, to disc media such as DVD or BD and to tape media such as HDV devices and DV devices.

Exporting in File Formats

Exporting in a Variety of File Formats

The following explains points to be checked before exporting in a file format, and how to use the exporter to export in each file format.

Points to Be Checked before Exporting a File

This section describes the settings to confirm before export, and matters to know in advance when exporting a file with an exporter.

Marker Settings

To export only one part of an edited video, make sure to specify the export range using [Set In] and [Set Out] on the Recorder.

To add a chapter, make sure that a sequence marker is set in a desired position.

Setting the In and Out Points on the Timeline ▶ P227

Setting Sequence Markers ▶ P283

Export Formats

When exporting a file with an exporter, you can export using the same setting as in the project settings, or export with a format that differs from the project settings.

Exporting Files with an Exporter ▶ P420

Exporting to File in a Format that Differs from the Project Settings ▶ P423

The following file formats are available for export.

Video

File format	Exporter	Reference for export settings
Uncompressed AVI (*.avi)	[Uncompressed RGB AVI] [Uncompressed RGBA AVI] [Uncompressed v210 AVI] [Uncompressed UYVY AVI] [Uncompressed YUY2 AVI]	<i>P 427</i>
AVI (*.avi)	[Grass Valley HQ AVI] [Grass Valley HQX AVI] [Grass Valley Lossless AVI] [DV AVI] [DVCPRO HD AVI] [DVCPRO50 AVI]	<i>P 427</i>
H.264 Transport Stream (*.m2ts)	[Blu-ray] [AVCHD]	<i>P 427</i>
MPEG-4 (*.mp4)	[H.264/AVC] [PlayStation Portable] [iPod]	<i>P 428</i>
MPEG2 Transport Stream (*.m2t)	[HDV]	<i>P 453</i>
MPEG2 Program Stream (*.mpg, *.m2p)	[MPEG2 Program Stream]	<i>P 429</i>
MPEG2 Elementary Stream (*.m2v, *.mpv, *.mpa, *.wav, *.ac3)	[MPEG2 Elementary Stream]	<i>P 429</i>
Windows Media Video (*.wmv)	[WindowsMediaVideo]	<i>P 420</i>
DV stream (*.dv)	[DV stream]	—
QuickTime Playback format <ul style="list-style-type: none"> • QuickTimeMovie (*.mov) • MPEG4 (*.mp4, *.m4v) • Mobile phone video format (*.3gp) • AVI (*.avi) • DV stream (*.dv) • FlickAnimation (*.flc) • Image Sequence 	[QuickTime]	<i>P 427</i>
FlashVideo (FLV) (*.flv) ^{*1}	[QuickTime]	<i>P 432</i>
Flash Video (*.f4v)	[F4V]	<i>P 431</i>
AVCHD export format	[AVCHD Writer]	<i>P 432</i>
Panasonic 3DA1 export format	[AVCHD (Dual Card 3D) Writer]	<i>P 433</i>
GXF (*.gxf)	[AVCIntra GXF] [D10 GXF] [DV GXF] [DVCPRO25 GXF] [DVCPRO50 GXF] [DVCPROHD GXF] [JPEG2000 GXF] [MPEG2 GXF]	<i>P 437</i>

File format	Exporter	Reference for export settings
MXF (*.mxf)	[AVCIntra MXF] [D10 MXF] [DV MXF] [DVCPRO25 MXF] [DVCPRO50 MXF] [DVCPROHD MXF] [JPEG2000 MXF] [MPEG2 MXF] [HQ MXF] [HQX MXF]	<i>P 438</i>
GF export format	[GF clip] [GF clip(DV)] [GF clip(SD)] [GF clip(DVCPRO25)] [GF clip(DVCPRO50)]	<i>P 434</i>
Infinity export format	[Infinity DV] [Infinity JPEG2000] [Infinity D10] [Infinity MPEG]	<i>P 435</i>
P2 card export format	[HD P2 3D Clip] [HD P2 Clip] [P2 Clip]	<i>P 435</i>
XDCAM export format	[XDCAM EX] [XDCAM EX DV]	<i>P 433</i>
	[XDCAM DV] [XDCAM HD] [XDCAM HD 422] [XDCAM HD 720P] [XDCAM MPEG IMX]	<i>P 436</i>

*1 Adobe Flash CS3 Professional must be installed on the system. Does not support Adobe Flash CS2 Professional or earlier versions, or Adobe Flash CS4 Professional.

Audio

File format	Exporter	Reference for export settings
AC3 Audio files (*.ac3)	[Dolby Digital (AC-3)]	<i>P 427</i>
AIFF (16 bit PCM) (*.aif)	[PCM AIFF]	
WAVE (16 bit PCM) (*.wav)	[PCM WAVE]	
QuickTime Playback format <ul style="list-style-type: none"> • AIFF (*.aif) • AU (*.au) • Wave (*.wav) 	[QuickTime]	
Windows Media Audio (*.wma)	[WindowsMediaAudio]	
Sony/Sonicfoundry Wave64 files (*.w64)	[Sony/Sonicfoundry Wave64]	—

Still image

File format	Exporter	Reference for export settings
Targa files (*.tga, *.targa, *.vda, *.icb, *.vst) Windows Bitmap files (*.bmp, *.dib, *.rle) JPEG files (*.jpg, *.jpeg) DCF thumbnail files (*.thm) TIFF files (*.tif, *.tiff) Photoshop files (*.psd) JPEG File Interchange Format files (*.jif) Portable Network Graphics files (*.png) Mac Pict files (*.pic, *.pct, *.pict) QuickTime image files (*.qtif, *.qti, *.qif) SGI files (*.sgi, *.rgb)	[Still Image]	P 431

Registering Export Settings

Exporter settings can be registered as a preset. Conversion settings used to export in a format that differs from the exporter settings and the project settings can also be registered in combination with the exporter settings and project settings. Once registered, a preset exporter can be easily called upon.

Creating Preset Exporters ► P441

Exporting Files with an Exporter

You can select the file format to export in, allowing for export in various formats.

Example:

Exporting in the Windows Media Video format.

1 Click [Export] on the Recorder.**2 Click [Print to File].**

The [Print to File] dialog box appears.

[Print to File] Dialog Box ► P421

Alternative

- Click [File] on the menu bar, and click [Export] → [Print to File].
- Exporting to file: [F11]

3 Click [Windows Media] on the category tree.

A list of exporters is displayed in [Windows Media].

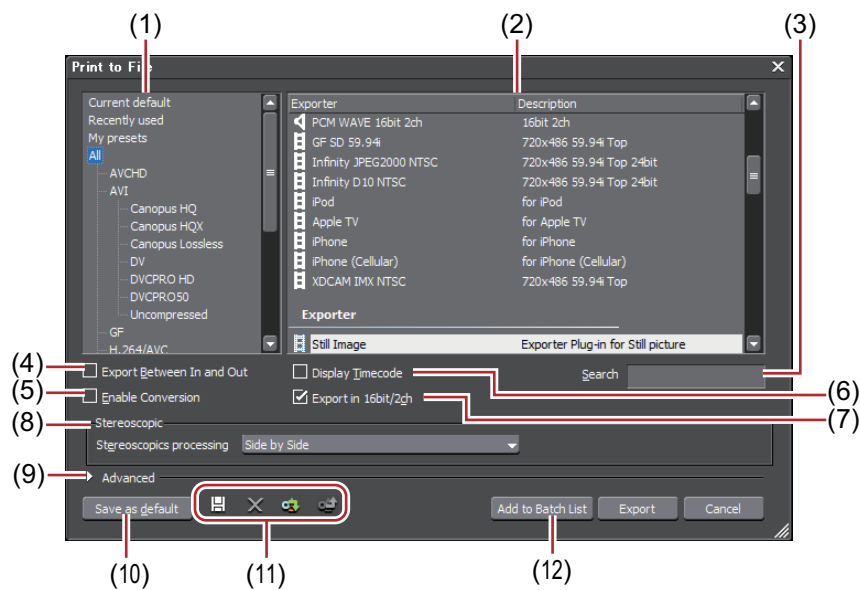
4 Click [WindowsMediaVideo], and click [Export].

The [WindowsMediaVideo] dialog box appears.





[WindowsMediaVideo] Dialog Box ► P423

5 Configure the export settings.**6 Enter a file name, select the save destination and click [Save].**

- After step 3, the procedure differs according to the selected exporter. Perform operations according to the on-screen instructions.

[Print to File] Dialog Box

(1)	Category tree	<p>Select a category to narrow down the exporter options.</p> <p>[Current default] Display the default exporters.</p> <p>[Recently used] Display exporters in a list in the order of most recently used first.</p> <p>[My presets] Display the preset exporters registered by the user in a list.</p> <p>[All] Display all exporters in a list. You can narrow the exporter options by selecting a category by format.</p>
(2)	Exporter/Preset list	<p>Display the exporters within a selected category in a list.</p> <p>[Preset] Display preset exporters stored as default and preset exporters stored by the user. <i>Creating Preset Exporters</i> ▶ P441 <i>Deleting Preset Exporters</i> ▶ P442 <i>Exporting Preset Exporters (Export)</i> ▶ P442</p> <p>[E]: Video exporter Indicates exporters to export a file that includes a video element.</p> <p>[A]: Audio exporter Indicates exporters to export an audio element.</p> <p>[E]: A preset where conversion is performed Check [Enable Conversion] to display all preset exporters including preset exporters with a format that differs from the project settings. <i>Exporting to File in a Format that Differs from the Project Settings</i> ▶ P423 <i>Creating Preset Exporters</i> ▶ P441</p>
(3)	[Search]	Search the exporters.
(4)	[Export Between In and Out]	Check this item to export only between In and Out points of the timeline.
(5)	[Enable Conversion]	<p>Check this item to enable conversion processing used to export in formats that differ from the project settings.</p> <p><i>Exporting to File in a Format that Differs from the Project Settings</i> ▶ P423</p>

(6)	[Display timecode]	Check this item to export with a timecode shown on-screen.
(7)	[Export in 16bit/2ch]	Check this item to export in 16 bits/2ch regardless of the audio format of the project settings or selected preset exporter. Convenient to leave checked when exporting a multi-channel project to be used with another company software.
(8)	[Stereoscopic]	Displayed only in the stereoscopic edit mode. Select the format of stereoscopic processing from the list. Selectable items differ according to the selected exporter. [L/R Dual Stream] exports the video of the L and R sides to a single dual stream-compatible file. [Left only]/[Right only] exports video of the L or R side only to a single file. [Side by Side]/[Top and Bottom]/[Line Interleave]/[Blend]/[Anaglyph]/[Difference]/[Split Grid] combine and output the video of the L and R sides to a single file. Stereoscopic Processing Type ▶ P135 [Separate L/R Clips] outputs the video of the L and R sides separately to two different files.
(9)	[Advanced]	Click the expand button to configure conversion processing when exporting in a format that differs from the project settings. [Print to File] (Detailed Settings) Dialog Box ▶ P424
(10)	[Save as default]	Select an exporter in the exporter/preset list, and click [Save as default] to save the settings in [Current default]. Select [Default Exporter(Print to file)] from [Export] on the Recorder to select the saved default exporter easily.
(11)	Preset operation buttons	 : [Save preset] Register the exporter selected in the exporter/preset list together with the conversion processing configured under [Advanced] as a preset exporter. Creating Preset Exporters ▶ P441  : [Delete preset] Delete the preset exporter selected in the exporter/preset list. Deleting Preset Exporters ▶ P442  : [Import preset] Import preset exporters. Importing Preset Exporters (Import) ▶ P442  : [Export preset] Export the preset exporter selected in the exporter/preset list. Exporting Preset Exporters (Export) ▶ P442
(12)	[Add to Batch List]	Add the specified range to the batch list. Registering Ranges to Be Exported in a Batch List ▶ P443



- To export a multi-channel project to use with software by another company, either check [Export in 16bit/2ch] or select an exporter in 16 bits/2ch audio format.

[WindowsMediaVideo] Dialog Box

<p>[Video settings]</p>	<p>[Mode]</p> <p>[CBR] is a fixed transfer mode. It encodes with a constant bitrate regardless of movement or image complexity. Enter a value for [Bitrate].</p> <p>[CBR (2-pass)] performs encoding after an analysis for movement and image complexity.</p> <p>[VBR (quality based)] is a variable transfer mode of direct conversion. The allotted bitrate is varied according to movement and image complexity. Enter a value for [Quality].</p> <p>[VBR (2-pass)] is a variable transfer mode. The allotted bitrate is varied after an analysis of movement and image complexity. Enter the average bitrate in [Bitrate], and maximum bitrate in [Max].</p> <p>[Frame rate]</p> <p>Check this item to change the frame rate (1-60 fps). To set to 29.97 fps, enter "2997".</p> <p>[Picture size]</p> <p>The image size can be set by selecting from the list. Checking [Square pixel] sets the image aspect ratio at 1:1. Check this if the video is made vertically long or horizontally long by the playback device.</p> <p>[Quality setting]</p> <p>Move the slider depending on the relative importance of [frame rate (0)] (prioritizes smooth movement) and [image quality (100)].</p>
<p>[Audio settings]</p>	<p>[Mode]</p> <p>[CBR] is a fixed transfer mode. It encodes with a constant bitrate regardless of audio complexity. Select a bitrate from the [Bitrate] list.</p> <p>[CBR (2-pass)] performs encoding after an analysis for audio complexity.</p> <p>[VBR (quality based)] is a variable transfer mode. The allotted bitrate is varied according to audio complexity. Select an average bitrate from the [Quality] list.</p>

Exporting to File in a Format that Differs from the Project Settings

You can use an exporter to export to file in a format that differs from the project settings.

1 Click [Export] on the Recorder.



2 Click [Print to File].

The [Print to File] dialog box appears.

[Print to File] Dialog Box ► P421

Alternative

- Click [File] on the menu bar, and click [Export] → [Print to File].
- Exporting to file: [F11]

3 Click a category in the category tree, and check [Enable Conversion].

All exporters and preset exporters where the export format differs from the project settings are displayed. Preset exporters where conversion processing is performed will have a "→" symbol on their icon.

4 Select an exporter, and click the expand button in [Advanced].

Preset exporters stored as default can also be selected.

The [Print to File] (Detailed Settings) dialog box appears.

[Print to File] (Detailed Settings) Dialog Box ► P424

5 Set the details of the format to be exported.

- When you click [Save as default], the current settings are saved and you can select an exporter simply by selecting [Default Exporter(Print to file)] from [Export] on the Recorder.
[Print to File] Dialog Box ▶ P421
- You can save the current settings as a preset.
Creating Preset Exporters ▶ P441

6 Click [Export], and configure according to the on-screen instructions.

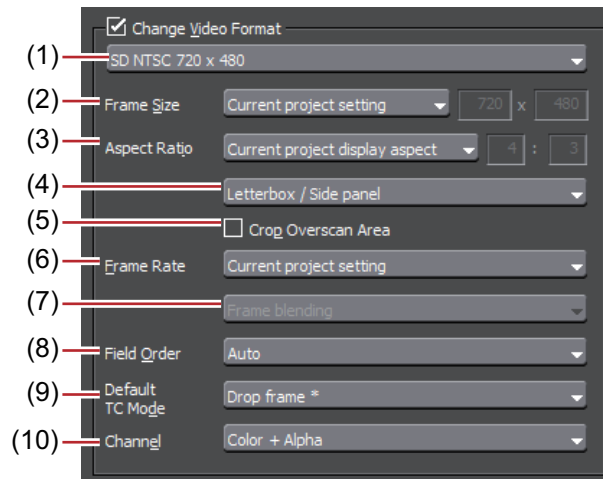
7 Enter a file name, select the save destination and click [Save].

- After step 6, the procedure differs according to the selected exporter. Perform operations according to the on-screen instructions.

[Print to File] (Detailed Settings) Dialog Box

If a preset exporter was selected in step 4, you will switch to the export format settings of that preset exporter.

Setting [Change Video Format]



Checking [Change Video Format] exports files converting to the video format set in the following items. “*” in the right field of a setting indicates that the setting agrees with the project settings.

(1)	Video profile list	Display a list of commonly used video formats. When you select a video format from the list, [Frame Size] and other items will switch to the selected video format settings.
(2)	[Frame Size]	Select a frame size from the list. Select [Custom] to enter a setting value in pixels.
(3)	[Aspect Ratio]	Select an aspect ratio from the list. If you select [Custom Display Aspect] or [Custom Pixel Aspect Ratio], you can set the aspect ratio by entering values. If you have set a customized aspect ratio, make sure to select a conversion method from the aspect ratio conversion setting.
(4)	Aspect ratio conversion settings	If the aspect ratio set in [Aspect Ratio] differs from the project settings, select which method to use to convert the aspect ratio from the list. Setting the Aspect Ratio Conversion ▶ P426
(5)	[Crop Overscan Area]	Check this item to convert the aspect ratio after cropping with the overscan size. The overscan size differs according to the project settings.
(6)	[Frame Rate]	Select a frame rate from the list. If you have set a customized frame rate, be sure to select a conversion method in the frame rate conversion settings.

(7)	Frame rate conversion settings	If the frame rate set in [Frame Rate] differs from the project settings, select from the list which conversion to perform. If you select [Frame blending], supplemental frames will be interpolated by combining the frame before and after each supplemental frame. If you select [Nearest frame], the nearest frame will be used to make supplementary frames.
(8)	[Field Order]	Select a field order from the list. If you select [Auto], the optimum perceived field order will be selected automatically.
(9)	[Default TC Mode]	Select whether the video to be exported displays the drop frame timecode or the non drop frame timecode as default.
(10)	[Channel]	This can be set when an exporter to which the alpha channel is retained and can be output to is selected. Select whether to output only the color channel or to output the color channel and the alpha channel.

Setting [Change Audio Format]

Checking [Change Audio Format] changes the audio format so it is exported with the below-described items. However, if [Export in 16bit/2ch] has been checked the [Channels] and [Sample Format] settings will be fixed.

“**” in the right field of a setting indicates that the setting agrees with the project settings.

[Channels]	Select the number of channels from the list. If the selected number of channels is fewer than the project setting, the channels will be exported in order from 1ch. Select [2ch] to export a multi-channel project to be used with software of another company.
[Sampling Rate]	Select a sampling rate from the list.
[Sample Format]	Select an audio quantization bitrate from the list. Select [16bit] to export a multi-channel project to be used with software of another company.
[Export Audio]	Check this item to export the audio part.
[Generating Waveform Cache]	Check this item to create waveform cache (waveform representation of audio).

[Remain Ancillary data]

This can be set when a compatible exporter is selected. Check this item to export with ancillary data (including closed captions) retained.



Note

- If the frame size, after the frame rate or aspect ratio is corrected, is different from the project settings, ancillary data will be deleted.

[Remain Audio Bitstream]

This can be set when a compatible exporter is selected. Check this item to export with the audio bitstream retained.

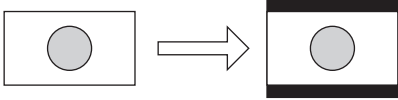
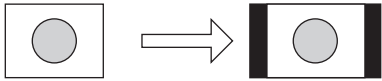
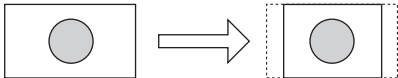
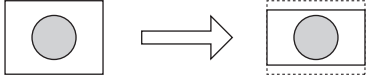
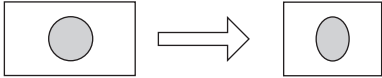
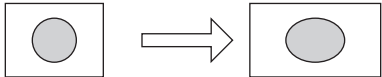
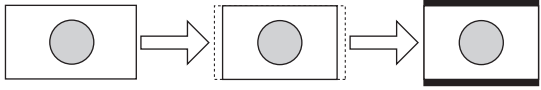
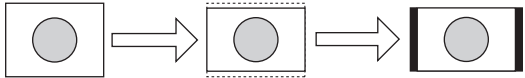


Note

- If the frame size after the frame rate or aspect ratio is corrected is different from the project settings, audio bitstream will be deleted.

Setting the Aspect Ratio Conversion

For the items in the list of the aspect ratio conversion setting to be set in the [Print to File] (Detailed Settings) dialog box, what follows are example descriptions of converting a 16:9 screen to a 4:3 screen, and a 4:3 screen to a 16:9 screen.

Item	Original screen → Converted screen	Description
Letter box / Side panel	16:9 → 4:3	The 16:9 screen is displayed in the center of a 4:3 screen, and a letter box effect is added above and below. 
	4:3 → 16:9	The 4:3 screen is displayed in the center of a 16:9 screen, and side panels are added at the edges. 
Side cut / Crop top and bottom	16:9 → 4:3	The left and right sides of the 16:9 screen are cropped to fit the 16:9 screen to a 4:3 screen size. 
	4:3 → 16:9	The top and bottom parts of the 4:3 screen are cropped to fit the 4:3 screen to a 16:9 screen size. 
Anamorphic	16:9 → 4:3	The 16:9 screen is compressed horizontally to fit a 4:3 screen size. The frame aspect ratio is not conserved. 
	4:3 → 16:9	The 4:3 screen is stretched horizontally to fit a 16:9 screen size. The frame aspect ratio is not conserved. 
Semi-letter box (14:9/ 13:9)	16:9 → 4:3	The 16:9 screen is cropped to a 14:9 or 13:9 screen size, displayed in the center of a 4:3 screen and a letter box effect is added above and below. 
	4:3 → 16:9	The 4:3 screen is cropped to a 14:9 or 13:9 screen size, displayed in the center of a 16:9 screen and side panels are added at the edges. 

Selecting a Codec to Export in AVI Format

The compression format can be selected to export a project as an AVI file.

1 Click a codec of [AVI] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ► P420

2 Select an exporter, and click [Export].



- For the items for the Grass Valley HQ AVI and Grass Valley HQX AVI codec settings, see the description given for the [Settings - Grass Valley HQ]/[Settings - Grass Valley HQX] dialog box in [System Settings].
[Settings - Grass Valley HQ]/[Settings - Grass Valley HQX] Dialog Box ► P108
- If [Use MSDV codec] is checked when the [DV AVI] exporter has been selected, it will export as AVI with the MSDV codec.

3 Set a file name and save destination, and click [Save].

Exporting Audio

You can export just the audio of a project.

1 Click [Audio] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ► P420

To export as Windows Media Audio, click [Windows Media] in the category tree.

2 Select an exporter, and click [Export].

3 Set a file name and save destination, and click [Save].



- If the [Dolby Digital (AC-3)] exporter has been selected, select a bitrate from the [Format] list.
- If the [WindowsMediaAudio] exporter has been selected, select the transfer mode. If [CBR] (fixed transfer mode) has been selected, select a bitrate from the [Bitrate] list. If [VBR (quality based)] (variable transfer mode) has been selected, select a bitrate from the [Quality] list.

Exporting in QuickTime Playback Format

You can export in MPEG4 format for playback as a QuickTime movie or in 3GP format for playback on a mobile phone.

1 Click [QuickTime] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ► P420

2 Select [QuickTime], and click [Export].

3 Select a file format from the [Save as type] list, and click [Settings].

[Settings] may be unavailable depending on the file format.

4 Configure the export settings, enter a file name and click [Save].



- See the QuickTime player help for more information on the detailed settings for each file export.
- DV streams exported with the [QuickTime] exporter are encoded using an Apple DV codec, and DV streams exported with the [DV stream] exporter are encoded using a Grass Valley DV codec. DV streams encoded with a Grass Valley DV codec support smart rendering.

Exporting to a BD Output Format

You can export to an MPEG 2 format file (*.m2ts) for BD.

1 Click [H.264/AVC] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ► P420

2 Click [Blu-ray], and click [Export].

The [Blu-ray] dialog box appears.

[Blu-ray] Dialog Box ► P428

3 After setting the export details, specify a file name and save destination and click [Save].

[Blu-ray] Dialog Box**[Basic Settings] tab**

[Video settings]	<p>[Profile] Set the profile. The selectable profiles will differ dependent on the frame size to be exported.</p> <p>[Bit Rate Type] [CBR] assigns a constant number of bits. Although noise, etc. may be present, the encoding process is made quicker. [VBR] changes the assigned bitrate according to the complexity of the movement or image quality. Compared with [CBR], the media volume can be used more efficiently, and this enables more consistent image quality overall.</p> <p>[Average] Set this item if [CBR] or [VBR] has been selected as the bitrate type. You can either select from the list or enter values directly.</p> <p>[Max] Set this item if [VBR] has been selected as the bitrate type. You can either select from the list or enter values directly.</p> <p>[Quality] Set this item if [Quality] has been selected as the bitrate type. Select the image quality from the list.</p>
[Audio settings]	<p>[Format] Select the audio compression format from the list.</p> <ul style="list-style-type: none"> • For [Dolby Digital (AC-3)] If the number of audio channels in the project settings is 6ch or more, 7ch/8ch are discarded, and output is with 5.1ch - 1ch:L, 2ch:R, 3ch:C, 4ch:LFE, 5ch:Ls, and 6ch:Rs. If the number of audio channels in the project settings is 5ch or lower, all except 1/2ch are discarded and output is with 2ch. • For [Linear PCM] If the number of audio channels in the project settings is 8ch, output is with 8ch; if the number is 6ch/7ch, output is with 6ch; if the number is 4ch/5ch, output is with 4ch; and if the number is 3ch, output is with 2ch. <p>[Bit Rate] Select a bitrate from the list.</p>

[Extended Settings] tab

[IDR Interval]	Enter the IDR frame interval, and set the GOP size.
[B Frame]	Set the number of B-frames included in one GOP.
[Number of Reference Frames]	Set up to how many frames to consider when motion estimation is performed.
[Multi Slice]	Check this item to divide 1 frame into 4 parts. If the decoder supports multi-slicing, the decoding may be made quicker.
[Entropy Coding Mode]	Select the H.264 encoding mode.
[Motion Estimation Precision]	Select the unit of division for the motion estimation block from the list.
[Minimum Block Size of Prediction]	Set the block size during motion estimation for intra-frames/inter-frames.

Exporting in MPEG-4 Format

Projects can be exported in MPEG-4 format files (*.mp4).

1 Click [H.264/AVC] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ► P420

2 Select an exporter, and click [Export].

Select one of [H.264/AVC], [PlayStation Portable] or [iPod] as the exporter.

3 After setting the export details, specify a file name and save destination and click [Save].

For the setting items, see the descriptions given for the [Basic Settings] tab/[Extended Settings] tab in “Exporting to a BD Output Format”.

Exporting to a BD Output Format ► P427

Exporting in MPEG2 Format

Projects can be exported as an MPEG2 format file.

1 Click [MPEG] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ► P420

2 Click [MPEG2 Elementary Stream] or [MPEG2 Program Stream], and click [Export].

The [MPEG2 Elementary Stream] dialog box or the [MPEG2 Program Stream] dialog box appears.

[MPEG2 Elementary Stream] / [MPEG2 Program Stream] Dialog Box ► P429

3 Configure the video and audio settings, specify a file name and save destination and click [Save].

If [MPEG2 Elementary Stream] has been selected, click [Select], set the audio and video export destinations, and click [OK].

[MPEG2 Elementary Stream] / [MPEG2 Program Stream] Dialog Box

[Basic Settings] tab

The setting items displayed may differ in part depending on the exporter.

<p>[Video settings]</p>	<p>[Segment Encode] Check this item to export a clip of a raw source without re-encoding. This increases the output speed.</p> <p>[Size] Select an image quality.</p> <p>[Quality/Speed] Select quality from the list. The higher the quality, the more time it takes to be encoded.</p> <p>[Bit Rate] Select a bitrate type. [CBR] sets a fixed transfer rate, allocating a fixed number of bits during the encoding process. Select a bitrate from the [Average(bps)] list. You can also enter a value directly. [VBR] sets a variable transfer rate, altering the number of assigned bits according to the complexity of the movement or image quality. Compared with [CBR], the media volume can be used more efficiently, and this enables more consistent image quality overall. Select a bitrate from the [Average(bps)] and [Maximum(bps)] lists. You can also enter a value directly.</p>
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<p>[Audio settings]</p>	<p>[Format] Select the audio compression format from the list.</p> <p>[Channel] Select from [Stereo], [Dual Channel] or [Joint Stereo]. [Stereo] is normal stereo that records separately on the left and right sides. If there is a large difference between the left and right audio, compared to stereo that saves audio with a greater focus on one side, [Dual Channel] records totally independently so that there is no bias in sound quality to one side. Select to enter narration in 2 languages, etc. [Joint Stereo] improves audio quality and compression ratio when recording left and right audio separately by automatically using a single channel that combines the audio when the left and right sides are the same or one more channel when the left and right audio are different.</p> <p>[Bit Rate] Select a bitrate from the list.</p>
<p>[Extended Settings] tab</p>	
<p>[Video settings]</p>	<p>[Field Order] For interlace, a field order can be selected.</p> <p>[Chroma Format] Select a YUV pixel format from the list.</p> <p>[Profile & Level] Select a profile & level. If [Chroma Format] is [4:2:0] and [4:2:2], the profile will be set to Main Profile and 422Profile, respectively. The level for SD image quality will be Main Level, and the level for HD image quality will be High Level. The profile & level changes according to the format selected in [Chroma Format].</p> <p>[GOP Structure] For MPEG, a certain number of frames is considered as a group, and operations such as compression/enlargement and cut editing are performed on a GOP basis. A GOP comprises "I frame", "P frame" and "B frame". The I frame allows images to be reproduced independently, the P frame is for recording and reproducing only the differences with the preceding image, and the B frame reproduces images from the differences in the preceding and following images. Select I, P and B frame patterns of the GOP from the list. Normally, select [IBBP]. [I-Frame Only] is comprised of only I-pictures. Editing is made easier, but the amount of data increases in size.</p> <p>[Picture count] Set the number of frames included in a group.</p> <p>[Closed GOP] Check this item to complete information within each GOP. Although the amount of data increases, the video can be re-edited using software that supports GOP-based editing. Normally, leave this item unchecked.</p>

[Audio settings]	<p>[Emphasis] Select from the list for high-frequency compensation that saves while emphasizing the high range. With [None], there is no high-frequency compensation. [50/15 us] is an emphasis setting employed by some audio CDs, etc. [CCITT J.17] is a telecommunications standard recommended by CCITT.</p> <p>[Protection] The “protection_bit” indicates whether redundancy is added to an audio stream in order to make error detection and correction possible. Check this item to change it to “1”, indicating that redundancy is being added. Uncheck this item to change it to “0”, indicating that redundancy is not being added.</p> <p>[Original Flag] Check this item to change the “original_copy” bit to “1”, indicating the original copy. If it is unchecked, it becomes “0”, indicating a duplication.</p> <p>[Copyright Flag] Check this item to change the “copyright” bit to “1”, indicating that the copyright is protected. If it is unchecked, it becomes “0”, indicating there is no copyright.</p>
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Exporting a Still Image

Export all frames between In and Out points on the timeline as still image files.

1 Click [Other] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ► P420

2 Click [Still Image], and click [Export].

3 Specify a file name and export destination, and select the export format.

A sequential number will be added based on the file name entered.

[Advanced]	Change the aspect ratio correction or export field settings. The settings for [Still Image] in [System Settings] will be the initial values. <i>Exporting a Still Image</i> ► P431
[Save between In/Out in sequential files]	Export all frames between In and Out points on the timeline as still image files.



- For example, if “Still1” is entered as the file name, the exported image files will become “Still1”/“Still2”/“Still3”... and if “Still5” is entered as the file name, the exported image files will become “Still5”/“Still6”/“Still7”..., etc. If a number is not added at the end of the file name, an 8-digit sequential number will be added automatically.

4 Click [Save between In/Out in sequential files].

The video is exported as still images.

Flash Video (F4V) Export

Projects can be exported in F4V format for Flash.

1 Click [H.264/AVC] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ► P420

2 Click [F4V], and click [Export].

The [F4V] dialog box appears.

[F4V] Dialog Box ► P432

3 After setting the export details, specify a file name and save destination and click [Save].

[F4V] Dialog Box

[Basic Settings] tab/[Extended Settings] tab

For the setting items, see the descriptions given for the [Basic Settings] tab/[Extended Settings] tab in “Exporting to a BD Output Format”.

Exporting to a BD Output Format ▶ P427

[Metadata] tab

[Export sequence marker as cue point]	Check this item to export sequence markers as cue points for Flash. Select the name of the type of cue point.
[Metadata]	Export is possible with metadata appended. Select an item from the [Name] list, and enter metadata at [Value].
[Import]	Import XMP format (*.xmp) metadata. This is reflected in the [Metadata] setting.
[Export]	Export the settings made at [Metadata] in XMP format.

Flash Video Export

If “Adobe Flash CS3 Professional” is installed on the PC, you can export a Flash Video.



Note

- To export a Flash Video, “Adobe Flash CS3 Professional” must be installed on the PC in an environment that can use Adobe Systems Flash Video. Please see the user manuals provided by Adobe Systems regarding “Adobe Flash CS3 Professional” and “Flash Video”.

1 Click [QuickTime] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ▶ P420

2 Click [QuickTime], and click [Export].

3 Select [FlashVideo (FLV)] in [Save as type].



- If you click [Settings], you can set the encoding and change the video size, etc.

4 Enter a file name, select the save destination and click [Save].

Exporting to Removable Media in AVCHD Format

AVCHD streams can be easily exported to an SD memory card or memory stick. A file can be exported to any desired save destination.

If exporting to removable media, make sure to connect the SD memory card or memory stick to the PC before export.



- If you want to edit a menu, etc. use Disc Burner to write the project to DVD or BD.

Exporting to Disc ▶ P446



Note

- When exporting to the internal hard disk, internal memory or removable disk of an AVCHD camera for playback on the AVCHD camera, you may be unable to perform the export or playback depending on the camera.
- You cannot write AVCHD streams from EDIUS directly to a DVD-R or BD.

1 Click [AVCHD] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ▶ P420

2 Click [AVCHD Writer], and click [Export].

 **Note**

- Depending on the type of save destination, a warning message may be displayed saying that data will become unrecognizable. Be sure to create a backup before export, as required.
- To export to an AVCHD format file without writing to removable media, click [AVCHD] and proceed to step 5.

3 Select [Drive] in [Destination].

The SD memory card or memory stick connected to the PC will be recognized as an external drive.



- You can select [Folder] and click [Select] to export an AVCHD stream to a specific location on the PC.

4 Select [SD Memory Card] or [Memory Stick / HDD Camera] in [Format].

Select according to the media being used.

5 Configure each item in the [Basic Settings] tab and [Extended Settings] tab.

For the setting items, see the descriptions given for the [Basic Settings] tab/[Extended Settings] tab in “Exporting to a BD Output Format”.

Exporting to a BD Output Format ► P427

6 Click [OK].

For [AVCHD], set a file name and save destination, and click [Save].



- If a stream file size exceeds 2 GB, it will be split up before export.

Exporting in 3DA1 Format

Projects can be exported in the 3DA1 format to an SD/SDHC memory card. A file can be exported to any desired save destination.

If exporting to an SD/SDHC memory card, make sure to connect the memory card to the PC before export.

1 Click [AVCHD] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ► P420

2 Click [AVCHD (Dual Card 3D) Writer], and click [Export].

3 Set the export destination for the L side and the R side in [Destination 1] and [Destination 2] respectively.

To export to a camera, select [Drive], and set the export destination from the list.

To export to the hard disk on the PC, select [Folder], and click [Select] to set the export destination.

4 Configure each item in the [Basic Settings] tab and [Extended Settings] tab.

For the setting items, see the descriptions given for the [Basic Settings] tab/[Extended Settings] tab in “Exporting to a BD Output Format”.

Exporting to a BD Output Format ► P427

5 Click [OK].

Exporting to an SxS Memory Card/SDHC Memory Card

Projects can be exported to an SxS memory card or an SDHC memory card.

Connect a device to the PC, and check the power is turned on.

Files can also be exported to the PC hard disk.



Note

- Be sure to format the SxS memory card in advance.

1 Click [XDCAM] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ► P420

2 Select an exporter, and click [Export].

Select either [XDCAM EX] or [XDCAM EX DV] as the exporter. Exporters that do not support the project settings will not be displayed.

3 Set the export destination, quality, metadata, etc., and click [OK].

The setting items will differ depending on the exporter.

Example:

If [XDCAM EX] has been selected.

[Destination]	Select whether to export to an SxS memory card, to export to an SDHC memory card or to save to a local folder. If [Sony - SxS Memory Card] or [JVC - SDHC Memory Card] is selected, select a card from the list. If [Automatically select the next card when card is full.] is checked, when free space runs out on the SxS memory card selected as the export destination, an SxS memory card with free space will be selected automatically and exported to. If it is unchecked, a dialog box will be displayed to select the export destination. If [Folder] has been selected, click [...] and specify a save destination.
[Segment Encode]	Check this item to export a clip of a raw source without re-encoding. This increases the output speed.
[ClosedGOP]	Check this item to complete information within each GOP. Although the amount of data increases, the video can be re-edited using software that supports GOP-based editing.
[Audio/Stereo]	Check this item to export the audio as a stereo track. This is only displayed when the audio channel is 2ch.
[Mode]	Select an image quality mode (SP or HQ).
[Quality/Speed]	Select quality from the list. The higher the quality, the more time it takes to be encoded.
Metadata	Add metadata such as title and comments to clips to be exported.



- When exporting has been performed by splitting up the export onto multiple SxS memory cards, the place exported to will be registered in the bin as sequence clips. However, if one of the SxS memory cards is not attached during registration, it will not be registered in the bin.

Exporting to a GF Device

You can export a project to a GF device.
Connect the GF device to the PC, and check that the power is turned on.
Files can also be exported to the PC hard disk.

1 Click [GF] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ► P420

2 Select an exporter, and click [Export].

Select either [GF clip], [GF clip(DV)], [GF clip(SD)], [GF clip(DVCPRO25)] or [GF clip(DVCPRO50)] as the exporter. Exporters that do not support the project settings will not be displayed.

3 Set the export destination, BIN to export to, clip name, etc., and click [OK].

The configurable items will differ depending on the exporter.

Example:

If [GF clip] has been selected.

[Destination]	Select whether to export to a GF drive or save to a desired PC folder. If [GF Drive] has been selected, select a Drive from the list. If [Folder] has been selected, click [Select] and specify a save destination. [Bin] Set the BIN in which to register the exported clip. Select from the list, or click [Append], enter a BIN title and register anew to the list.
[Clip Title]	Enter the name of the clip to be exported.
[Segment Encode]	Check this item to export a clip of a raw source without re-encoding. This increases the output speed.
[Gop Type]	Select the GOP type from [I-Frame Only(100 Mbps)] or [Long GOP(50 Mbps)].

[Quality/Speed]	Select a quality.
[Audio Channels]	Select the number of audio channels.
[Audio Quantization Bit Rate]	Select an audio quantization bitrate.



- If a clip consists of a file size that exceeds 4 GB, it will be split up before export.

Exporting to an Infinity Device

You can export a project to an Infinity device. Connect the Infinity device to the PC, and check that the power is turned on. Files can also be exported to the PC hard disk.

1 Click [Infinity] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ► P420

2 Select an exporter, and click [Export].

Select either [Infinity DV], [Infinity JPEG2000], [Infinity D10] or [Infinity MPEG] as the exporter. Exporters that do not support the project settings will not be displayed.

3 Set the export destination, clip name, playlist name, etc., and click [OK].

The configurable items will differ depending on the exporter.

Example:

If [Infinity MPEG] has been selected.

[Destination]	Select whether to export to an Infinity drive or save to a desired PC folder. If [Infinity Drive] has been selected, select a Drive from the list. If [Folder] has been selected, click [Select] and specify a save destination.
[Clip Name]	Enter the name of the clip to be exported.
[Playlists]	Select whether the playlist name has the same name as the clip name. If [Specified the playlist.] has been selected, enter a playlist name.
[Segment Encode]	Check this item to export a clip of a raw source without re-encoding. This increases the output speed.
[Bit Rate]	Select a bitrate from the list.
[Quality/Speed]	Select a quality.
[Audio Format]	Select an audio quantization bitrate and a number of audio channels from the list.

Exporting to a P2 Card

You can export a project to a P2 card. Connect the P2 device to the PC, and check that the power is turned on. Files can also be exported to the PC hard disk.



Note

- Make sure that the P2 device drivers are already installed.
- Audio will be exported in 16-bit format audio, even if the project preset is set to 24-bit format audio.

1 Click [P2] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ► P420


2 Select an exporter, and click [Export].

Select one of [P2 Clip], [HD P2 Clip] or [HD P2 3D Clip] as the exporter. Exporters that do not support the project settings will not be displayed.

If a P2 card is not connected to the PC, the [Browse For Folder] dialog box will appear. Specify a file export destination and click [OK].


3 Set the export destination, user clip name, codec, etc., and click [OK].

The setting items will differ depending on the exporter.

-  • Metadata, such as the created by and capture information, can be imported from another P2 clip. Click [Load Metadata] and select the XML file to be imported.
- If there is no more free space in the export destination, or if the clip consists of a file size that exceeds 4 GB, it will be split up before export.
If [Automatically select the next card when card is full.] is checked, when the clip is split, a P2 card drive that has free space will be selected automatically and exported to. If it is unchecked, when the clip is split, a dialog box will appear to select the export destination.
- If exporting at 720p, the export frames must be even frames. If a confirmation message appears, select a processing method.
- If a DVCPRO HD export format and the settings content for an EDIUS project preset differ, the export data will be stretched before export so that the frame rate and the field order correspond to each other.

Exporting to an XDCAM Recorder

With the XDCAM exporter you can output a project as an MXF file, and upload it to an XDCAM device or FTP server. MXF files can also be exported to the PC hard disk.

-  • To export to an FTP server, have the connection destination set in advance in system settings.
XDCAM Connection Settings ▶ P84

1 Click [XDCAM] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ▶ P420

2 Select an exporter, and click [Export].

Select from [XDCAM DV], [XDCAM HD], [XDCAM HD 422], [XDCAM HD 720P] or [XDCAM MPEG IMX] for the project image size.

Exporters that do not support the project settings will not be displayed.


3 Set the export destination, clip name, etc., and click [OK].

The setting items will differ depending on the exporter.

Example:


If [XDCAM HD] has been selected.

[Destination]	<p>Select whether to export to an XDCAM drive, to an FTP server, or to the desired folder on the PC. If [XDCAM Drive] was selected, select a Drive from the list. If [FTP] was selected, check the server to be exported to and, as necessary, check the item described below. If [Folder] was selected, click [Select] and specify a save destination.</p> <p>[Upload to FTP after exporting file.] Check this item to export a temporary file to the project folder, and then upload the actual data to an FTP server. After outputting the temporary file, if an error occurs during transfer to the FTP server or if the upload is aborted, the temporary file will not be deleted.</p>
[Clip Name]	<p>Set the file name to be exported. If [XDCAM Drive] or [FTP] is selected as the export destination, [Auto (C****)] will become enabled. If it is checked, a file name will be added automatically. To set a preferred file name, remove the check from [Auto (C****)] and enter a name in [Clip Name]. (“Clip Naming” must be set as “Free” on the XDCAM drive side.) If [Folder] is selected as the export destination, enter a clip name.</p>
[Segment Encode]	<p>Check this item to export a clip of a raw source without re-encoding. This increases the output speed.</p>
[Bit Rate]	<p>Select a bitrate from the list.</p>
[Quality/Speed]	<p>Select a quality.</p>
[ClosedGOP]	<p>Check this item not to use the B-picture at the GOP border as reference across GOPs. Although the amount of data increases, the video can be re-edited using software that supports GOP-based editing, as the information is completed within each GOP.</p>

[Audio Format]	Select the audio format to export.
 <ul style="list-style-type: none"> If a clip is exported that does not include high-resolution or proxy data, a dialog box will appear to set the processing before export. Select a processing method and click [OK]. If [XDCAM MPEG IMX] was selected, 3 lines (black) will be added above and below the 720×480 video to be exported as Even (Top Field First). Also, 720×576 (Odd) video will be shifted by 1 line to be exported as Even (Top Field First). If uploading an MXF file to an FTP server that has once been exported to a folder on a PC, use the source browser. Click the XDCAM tree in the source browser, right-click the FTP connection destination and click [Upload]. Select an MXF file, and click [Open]. 	

Exporting in GXF Format

You can export a project in the GXF format employed by K2 Media Client.

-  To export to an FTP server, have the connection destination set in advance in system settings.
GXF Connection Settings ▶ P80

Note

- Audio will be exported in 16-bit format audio, even if the project preset is set to 24-bit format audio.

1 Click [K2] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ▶ P420

2 Select an exporter, and click [Export].

The output settings dialog box appears. The setting items will differ depending on the exporter.

Example:

If [MPEG2 GXF] has been selected.

[Clip Name]	Enter the name of the clip (file) to be exported.
[Destination]	<p>Select whether to export to a desired PC folder or to an FTP server. If [Folder] was selected, click [Select] and specify a save destination. If [FTP] was selected, check the server to be exported to and, as necessary, check the items described below.</p> <p>[Overwrite file when it exists] Check this item to overwrite a file if the file with the same file name is present at the FTP server of the export destination.</p> <p>[Upload to FTP after exporting file] Check this item to export a temporary file to the project folder, and then upload the actual data to an FTP server. After outputting the temporary file, if an error occurs during transfer to the FTP server or if the upload is aborted, the temporary file will remain undeleted.</p> <p>[Do not add file extension when exporting to FTP] Check this item to export a file without adding the file extension to the name entered in [Clip Name]. (If [Clip Name] contains a file extension, export will take place with a clip file name with its file extension removed.) When this item is unchecked, export will take place with the “*.gxf” file extension added if the name entered in [Clip Name] does not include the file extension.</p>
[Keep the created file when aborting]	Becomes enabled if [Upload to FTP after exporting file] is unchecked. If it is checked and export is aborted, the file created up to the time point of the abort will remain at the export destination.

<p>[Encode Settings]</p>	<p>[Segment Encode] Check this item to export a clip of a raw source without re-encoding. This increases the output speed.</p> <p>[Bit Rate] Select a bitrate type. [CBR] sets a fixed transfer rate, allocating a fixed number of bits during the encoding process. Enter an average bitrate in [Average]. [VBR] sets a variable transfer rate, altering the number of assigned bits according to the complexity of the movement or image quality. Enter the average bitrate in [Average], and maximum bitrate in [Max].</p> <p>[Quality/Speed] Select quality from the list.</p> <p>[Field Order] The field order can be selected if it is in SD format.</p> <p>[GOP structure] Select I, P and B frame patterns of the GOP from the list. Normally, select [IBBP]. [I-Frame Only] is comprised of only I-pictures. Editing is made easier, but the amount of data increases in size.</p> <p>[Picture count] Enter the number of frames included in 1 GOP.</p> <p>[Closed GOP] If it is checked, the GOP will be closed. Although the amount of data increases, the video can be re-edited using software that supports GOP-based editing, as the information is completed within each GOP. Normally, leave this item unchecked.</p> <p>[Chroma Format] Select a YUV pixel format from the list.</p> <p>[Profile/Level] Select a profile & level. If [Chroma Format] is [4:2:0] and [4:2:2], the profile will be set to Main Profile and 422Profile, respectively. The level for SD image quality will be Main Level, and the level for HD image quality will be High Level. The profile & level changes according to the format selected in [Chroma Format].</p>
<p>[Bit Rate]</p>	<p>Select a bitrate from the list.</p>
<p>[Audio settings]</p>	<p>[Channels] Select the number of audio channels you want to export from the list. [Current setting] is the number of channels configured in the project settings. If [Enable Conversion] is checked for the exporter and the number of channels for the audio format is changed from the project settings, the number of channels will be the number set here.</p> <p>[Quantization Bit Rate] Select the number of bits to be used during sampling. [Current setting] is the number of bits configured in the project settings.</p>

3 Configure the export and click [OK].

Exporting in MXF Format

You can export to MXF, a video file format used in industry for server transfer, etc.



- To export to an FTP server, have the connection destination set in advance in system settings.

MXF Connection Settings ► P83

1 Click [MXF] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ► P420

2 Select an exporter, and click [Export].

The output settings dialog box appears. The setting items will differ depending on the exporter.

Example:

If [MPEG2 MXF] has been selected.

[Clip Name]	Enter the name of the clip (file) to be exported.
[Destination]	<p>Select whether to export to a desired PC folder or to an FTP server. If [Folder] was selected, click [Select] and specify a save destination. If [FTP] was selected, check the server to be exported to and, as necessary, check the items described below.</p> <p>[Overwrite file when it exists] Check this item to overwrite a file if the file with the same file name is present at the server of the export destination. Uncheck this item to display a confirmation message.</p> <p>[Upload to FTP after exporting file] Check this item to export a temporary file to the project folder, and then upload the actual data to an FTP server. After outputting the temporary file, if an error occurs during transfer to the FTP server or if the upload is aborted, the temporary file will not be deleted.</p> <p>[Do not add file extension when exporting to FTP] Check this item to export a file without adding the file extension to the name entered in [Clip Name]. (If [Clip Name] contains a file extension, export will take place with a clip file name with its file extension removed.) Uncheck this item to export a file with the ".mxf" added if the name entered in [Clip Name] does not include the file extension.</p>
[Keep the created file when aborting]	Becomes enabled if [Upload to FTP after exporting file] is unchecked. When this item is checked, the file being uploaded will be completed if an upload is aborted.

[Encode Settings]	<p>[Segment Encode] Check this item to export a clip of a raw source without re-encoding. This increases the output speed.</p> <p>[Bit Rate] Select a bitrate type. [CBR] sets a fixed transfer rate, allocating a fixed number of bits during the encoding process. Enter an average bitrate in [Average]. [VBR] sets a variable transfer rate, altering the number of assigned bits according to the complexity of the movement or image quality. Enter the average bitrate in [Average], and maximum bitrate in [Max].</p> <p>[Quality/Speed] Select quality from the list.</p> <p>[Field Order] The field order can be selected if it is in SD format.</p> <p>[GOP structure] Select I, P and B frame patterns of the GOP from the list. Normally, select [IBBP]. [I-Frame Only] is comprised of only I-pictures. Editing is made easier, but the amount of data increases in size.</p> <p>[Picture count] Enter the number of frames included in 1 GOP.</p> <p>[Closed GOP] If it is checked, the GOP will be closed. Although the amount of data increases, the video can be re-edited using software that supports GOP-based editing, as the information is completed within each GOP. Normally, leave this item unchecked.</p> <p>[Chroma Format] Select a YUV pixel format from the list.</p> <p>[Profile/Level] Select a profile & level. If [Chroma Format] is [4:2:0] and [4:2:2], the profile will be set to Main Profile and 422Profile, respectively. The level for SD image quality will be Main Level, and the level for HD image quality will be High Level. The profile & level changes according to the format selected in [Chroma Format].</p>
[Bit Rate]	Select a bitrate from the list.
[Audio settings]	<p>[Channels] Select the number of audio channels you want to export from the list. [Current setting] is the number of channels configured in the project settings. If [Enable Conversion] is checked for the exporter and the number of channels for the audio format is changed from the project settings, the number of channels will be the number set here.</p> <p>[Quantization Bit Rate] Select the number of bits to be used during sampling from the list. [Current setting] is the number of bits configured in the project settings.</p> <p>[Channels Per Track] Specify the number of channels to be included in 1 audio track for MXF.</p> <p>[Type] Select the audio format to export.</p>
[System Type]	Select a system item format.
[KAG Size]	Select a KAG (KLV Alignment Grid) size.

3 Configure the export and click [OK].

Exporting Stereoscopic Projects to File

Projects created in the stereoscopic edit mode can be exported to file.

Exporting L/R to a File

Export the data of the L and R sides of the project to a file.

1 Select an exporter in the category tree in the [Print to File] dialog box.

Exporting Files with an Exporter ► P420

2 Select one of [L/R Dual Stream], [Left only], [Right only], [Side by Side], [Top and Bottom], [Line Interleave], [Blend], [Anaglyph], or [Difference] from the [Stereoscopic] list.

[L/R Dual Stream] exports the video of the L and R sides to a single dual stream-compatible file.

[Left only]/[Right only] exports video of the L or R side only to a single file.

[Side by Side]/[Top and Bottom]/[Line Interleave]/[Blend]/[Anaglyph]/[Difference] combine and export the video of the L and R sides to a single file.

Stereoscopic Processing Type ► P135

3 Click [Export].

4 Set the export contents, and click [Save] or [OK].

The export contents differ depending on the exporter. See the explanation for the respective exporter.

Exporting L/R to Separate Files

You can output the video of the L and R sides separately to two different files.

1 Select an exporter in the category tree in the [Print to File] dialog box.

Exporting Files with an Exporter ► P420

2 Select [Separate Left and Right] from the [Stereoscopic] list.

3 Click [Export].

The export settings screen appears.

4 Set a file name and export destination for the L and R sides.

L/R file name common settings ► P441

L/R Export Destination Common Settings ► P441

5 Set the export details in the dialog box in step 4.

The export details differ depending on the exporter. See the explanation for the respective exporter.

6 Click [Save] or [OK].

L/R file name common settings

[File Name L]/[File Name R]	Click [Browse], and specify save destination. The files for the L and R sides are saved to the same folder.
[Suffix]	Set the suffix of the file name for the L and R sides.

L/R Export Destination Common Settings

[Destination L]/[Destination R]	Click [Browse], and specify each export destination for the files for the L and R sides.
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Registering Exporter Settings as a Preset

You can register frequently used exporter settings as presets. Conversion settings used to export in a format that differs from the exporter settings and the project settings can also be registered in combination with the exporter settings and project settings.

Creating Preset Exporters

An exporter setting can be registered as a preset exporter.

1 Select an exporter in the [Print to File] dialog box.***Exporting Files with an Exporter* ▶ P420**

Configure the conversion settings with the purpose of registering the conversion settings, which export in a format that differs from the project settings, as a preset.

Exporting to File in a Format that Differs from the Project Settings* ▶ P423*2 Click [Save preset] in the [Print to File] dialog box.**

[Preset Dialog] will be displayed.

3 Enter a preset exporter name in [Preset name], and configure the export details.

The export contents differ depending on the exporter.



- You can enter your preferred description in [Description]. It will be displayed at the exporter/preset list in the [Print to File] dialog box.

4 Click [OK].

The created preset is registered in the exporter/preset list.



- When you click [My presets] in the category tree, all user-registered preset exporters are displayed in the exporter/preset list.
 - To change the settings of already-created preset exporters, select the preset exporter to be changed, click [Save preset] and change the settings.

Deleting Preset Exporters

You can delete the preset exporters that you have created.

1 Select the exporter to be deleted in the [Print to File] dialog box.***Exporting Files with an Exporter* ▶ P420****2 Click [Delete preset] in the [Print to File] dialog box.****3 Click [Yes].**

- The only preset exporters that can be deleted are those that have been registered by the user.

Importing Preset Exporters (Import)

You can import preset exporters.

1 Click [Import preset] in the [Print to File] dialog box.***Exporting Files with an Exporter* ▶ P420****2 Select a file, and click [Open].**

- When you click [My presets] in the category tree, imported preset exporters are displayed in the exporter/preset list.

Exporting Preset Exporters (Export)

You can export the preset exporters that you have created.

1 Select a preset exporter in the [Print to File] dialog box.***Exporting Files with an Exporter* ▶ P420****2 Click [Export preset] in the [Print to File] dialog box.****3 Enter a file name, select the save destination and click [Save].**

- Exportable presets are the user-registered preset exporters, default exporters, and recently used exporters.

Exporting Multiple Sequences/Ranges Together

You can register exporters and ranges to be exported as a batch list, to export multiple ranges together that have been registered as a batch list.

Registering Ranges to Be Exported in a Batch List

You can specify exporters and ranges to be exported and register them in a batch list.

1 Set the In and Out points of a range to be exported.

Setting the In and Out Points on the Timeline ► P227

2 Select an exporter in the [Print to File] dialog box, and click [Add to Batch List].

Exporting Files with an Exporter ► P420



Note

- If an exporter that does not support batch export has been selected, [Add to Batch List] will become disabled and you cannot add it to the batch list.



Alternative

- After setting the In and Out points of a range to be exported, right-click the time scale and click [Add to Batch Export].
- After setting the In and Out points of a range to be exported, click [File] on the menu bar, and click [Export] → [Add to Batch Export].
- After setting the In and Out points of a range to be exported, right-click in the export list of the [Batch Export] dialog box and click [New].

[Batch Export] Dialog Box ► P444

3 After setting the export details, specify a file name and export destination and click [Save] or [OK].

Click [Save] or [OK] to register in the batch list.

The export contents differ depending on the exporter.

If you want to add multiple ranges from within a single project to the batch list, repeat the operations to set In and Out points and add to the batch list.



- After setting the In and Out points of a range to be exported, if you right-click the time scale you can select [Add to Batch Export (Default Exporter)]. In this case, the file name and destination are set automatically as shown below: ([Add to Batch Export (Default Exporter)] cannot be selected when no default exporter has been set or when [Export] is invalid.)
 - File name: Exp MonthDay_000 (3-digit sequential number) + extension
 - Save destination: Project folder

[Print to File] Dialog Box ► P421

- After setting the In and Out points of a range to be exported, if you right-click the time scale and click [Add to Batch Export (Project format)], the specified range is added to the batch list with the format specified in [Render format] of the [Project Settings] (Detailed Settings) dialog box. In this case, the file name and destination are set automatically as shown below: [Add to Batch Export (Project format)] cannot be selected when [Export] is disabled.
 - File name: Exp MonthDay_000 (3-digit sequential number) + extension
 - Save destination: Project folder

[Project Settings] (Detailed Settings) Dialog Box ► P39

- The content of the batch list can be changed in the [Batch Export] dialog box.

Exporting Multiple Ranges Together (Batch Export)

You can export multiple ranges registered in the batch list together.

1 Click [Export] on the Recorder.



2 Click [Batch Export].

The [Batch Export] dialog box appears.

[Batch Export] Dialog Box ► P444




Alternative

- Click [File] on the menu bar, and click [Export] → [Batch Export].

3 Check the item to be exported, and click [Export].

The export is started and its progress is displayed in [Status].

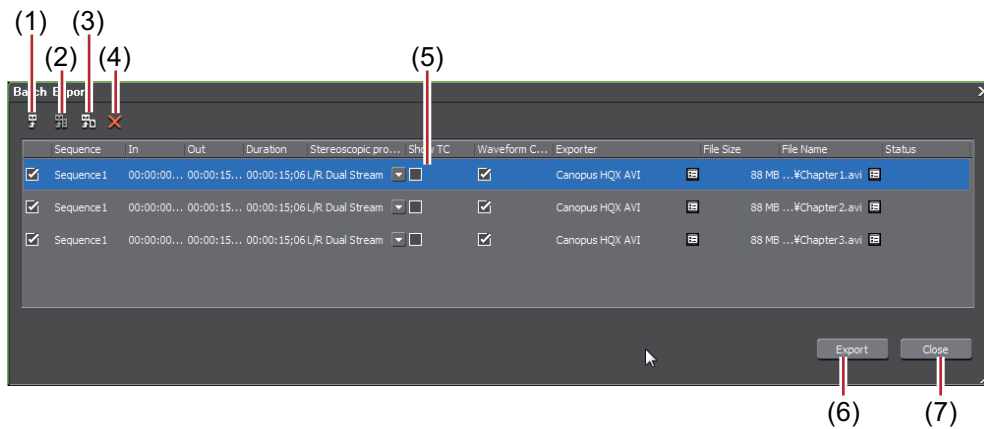
The exported files are registered in the bin.

-  • After setting the In and Out points of a range to be exported, you can register a new range for export by right-clicking on the export list and clicking [New].
- If you right-click the export list and click [Select All], you can select all ranges registered for export. Check one of multiple selected items to check all the selected items.
- If you right-click an item on the export list and click [Change Exporter], you can change the exporter. You can change the exporter for multiple selected items. However, if those items include an exporter for which the file name cannot be set, such as the P2 exporter, changes will be applied to all selected exporters excluding that exporter.



 **Note**

- If you delete a sequence registered in the batch list from both the timeline and bin, the batch list will become disabled and will be displayed in red.
- If you change the sequence settings or project settings of a sequence registered in the batch list, the changes will also be applied in the batch list. If changes are made that mean an exporter can no longer be used, the exporter is displayed in red in the batch list and its export cannot be performed.

[Batch Export] Dialog Box



(1)	[Add to Batch Export]	When this button is clicked while a range to be exported is selected, the [Print to File] dialog box appears. An item is added to the batch list when you configure export settings.
(2)	[Add to Batch Export (Default Exporter)]	When this button is clicked while a range to be exported is selected, the export is implemented using the default exporter and an item added to the batch list.
(3)	[Add to Batch Export (Project format)]	When this button is clicked while a range to be exported is selected, the export is implemented using the format set in [Render format] of the project settings, and an item added to the batch list.
(4)	[Delete Batch Export item]	When this button is clicked while an item is selected on the list, the item is deleted from the batch list.

(5)	Export list	<p>Displays the batch list to which items have been added, where you can check and change the export content. Check the items to be exported.</p> <p>[Sequence] Displays sequence names.</p> <p>[In]/[Out]/[Duration] Click the values to edit them. If the Out point is set before the In point or the In point exceeds the clip range, it is displayed in red and export cannot be performed.</p> <p>[Stereoscopics processing]  Click  to change the format of stereoscopic processing. Selectable items differ according to the selected exporter.</p> <p>[Show TC] Check this item to export sequences with their timecodes displayed.</p> <p>[Waveform Cache] Check this item to create waveform cache (waveform representation of audio). This setting may not be available depending on the selected exporter.</p> <p>[Exporter] Click on the icon to the right of the exporter name column to display the [Print to File] dialog box. <i>[Print to File] Dialog Box ► P421</i></p> <p>[File Size] Displays the file size. If the total size of the file to be exported exceeds the free space in the export destination, a warning dialog box may appear and the export cannot be performed. The displayed file size is only a guide. The size of the file to be exported will change dependent on the video content and the selected exporter.</p> <p>[File Name] Click on the icon to the right of the file name column to change the file name, export destination and export content.</p> <p>[Status] Displays the status of the export.</p>
(6)	[Export]/[Cancel]	<p>Start an export. The button changes to [Cancel] during export, and click it to cancel the export.</p>
(7)	[Close]	<p>Close the [Batch Export] dialog box.</p>

Deleting Registered Ranges from the Batch List

You can delete ranges registered in the batch list.

- 1 Click **[Export]** on the Recorder.



- 2 Click **[Batch Export]**.

The [Batch Export] dialog box appears.

[Batch Export] Dialog Box ► P444

- 3 Select an item to delete and click **[Delete Batch Export item]**.



- If you remove the check from export range items in the [Batch Export] dialog box, you can exclude those items from the export without deleting the items.

Exporting to Disc

Exporting to DVD and BD

You can export a project as a disc image file to be written to DVD or BD.

Exporting to Disc

You can write a project to a DVD or BD. You can create title and chapter menus, as well as set the background of the menu screen and buttons displayed on the screen.



- To export only one part of an edited video, make sure to specify the export range using a [Set In] and [Set Out] on the Recorder.

Setting the In and Out Points on the Timeline ► P227

- To add a chapter, make sure that a sequence marker is set in a desired position.

Setting Sequence Markers ► P283



Note

- When exporting to disc, you will need sufficient free space on the HDD.
- You will also need a drive that supports writing to DVD or BD.
- If packet writing software of another company is installed/running on your PC, you cannot export to DVD/BD from EDIUS.

1 Click [Export] on the Recorder.



2 Click [Burn to disc].



Alternative

- Click [File] on the menu bar, and click [Export] → [Burn to disc].
- Exporting to DVD/BD: [Shift] + [F11]



- Clicking [Return] ends the settings, and returns to EDIUS. If you return to EDIUS and save the project, the settings of "Exporting to Disc" will also be saved.

3 Click the [Basic] tab, and set the disc type or codec.

[Basic] Tab ► P446

4 Click the [Movie] tab, and set the movie to be exported to disc.

[Movie] Tab ► P447

5 Click the [Style] tab, and set the style for the menu screen.

[Style] Tab ► P447

6 Click the [Edit] tab to edit the menu.

[Edit] Tab ► P448

7 Click the [Write] tab to set the export settings.

[Write] Tab ► P450

8 Click [Create Disc].

Start writing to disc.

[Basic] Tab

[Output]	Select the type of disc to be exported to from the list.
[Codec]	When exporting to BD, select the codec.

[Menu]	Check this item to create a disc with a menu screen.
---------------	--

[Movie] Tab

[Disc Information]	Displays the number and file size of the titles to be added and the available disc space.
[Media]	Select the type of disc to be exported to from the list.
[Movie]	Displays the added titles. [Settings] Displays the settings dialog box used to change the bitrate. <i>[Title setting] dialog box ▶ P447</i> [Delete] Remove titles from the list. Does not delete the original file. [Up]/[Down] Change the order of titles.
[Add File]	Click this button to display the [Add Title] dialog box. Select a file, and click [Open].
[Add Sequence]	Click this button to display the [Select Sequence] dialog box. Check the sequence to be added and click [OK].

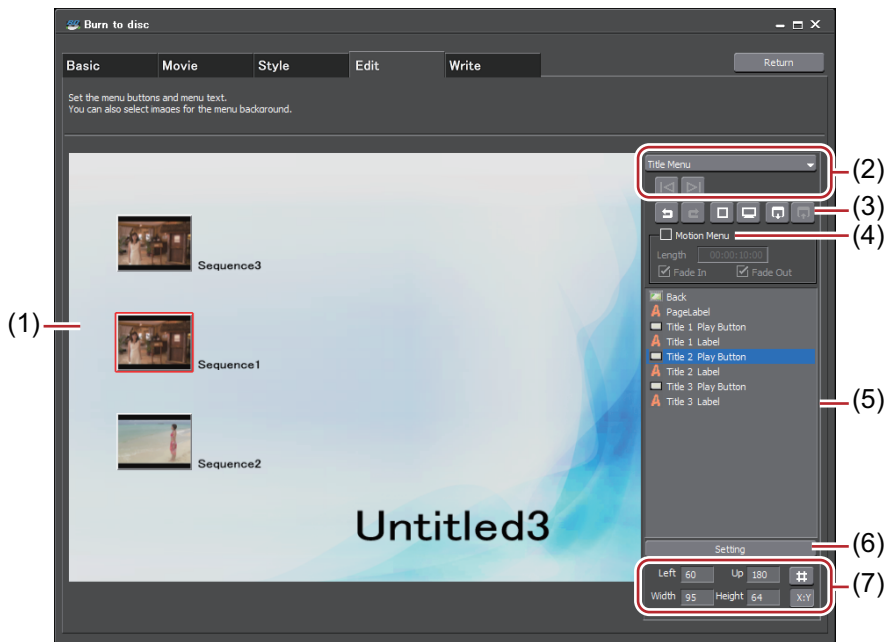
[Title setting] dialog box







[Automatic]	Uncheck this item to set the format and bitrate for video and audio.
[Prohibit Operations During Playback]	Disable operations such as moving chapters or fast-forwarding by the user during title playback.
[Display Timecode]	Add a timecode to the video if the title is a sequence. The type of timecode can be set at [Application] in [User Settings] → [Timeline]. <i>[Timeline] ▶ P90</i>
[Stereoscopic]	Stereoscopic processing is possible on sequences titled EDIUS only when exporting in MPEG2 format in the stereoscopic edit mode. Select the format of stereoscopic processing from the list. <i>Stereoscopic Processing Type ▶ P135</i>



[Style] Tab

[Auto Layout]	Set the placement of the buttons. Uncheck [Auto] to select the number of buttons to place from the [Row] and [Horizontal] lists.
[Aspect Ratio]	Select the size of the menu screen. If [BD] was selected in [Output], you cannot select [4:3].
[Frame Rate]	If [BD] was selected in [Output], you can change the frame rate of the menu. Normally, there is no need to change the frame rate.
[No Chapter Buttons]	Check this item to use thumbnails as chapter buttons.
[No Chapter Menu (Only One Chapter)]	If there is only one chapter, only the title menu will be created.
[No Title Menu (Only One Title)]	If there is only one title, only the chapter menu will be created with no title menu. Not displayed when there are multiple titles.
[Cursor style]	Select the shape of the selection cursor displayed on the menu screen.
Style list	Select a design for the menu screen from the list. The styles are classified in each tab according to type.

[Edit] Tab



(1)	Edit screen	<p>Displays a preview of the menu screen. Items can be edited directly, such as by clicking a title to enter text or moving or resizing pictures. If you double-click or right-click an item or picture then click [Setting], the [Menu Item Settings] dialog box appears.</p> <p>[Menu Item Settings] Dialog Box ▶ P449</p>
(2)	Page selection	<p>Select the page of the menu to be edited from the list. Click the buttons to display the previous or next page.</p>
(3)	Edit buttons	<p> : Undo an operation to return to the previous state.</p> <p> : Redo an undone operation.</p> <p> : Display lines for guidance.</p> <p> : Display a preview as seen on TV.</p> <p> : Save the layout of the current page (background image, position of page labels, position of title buttons, position of page buttons).</p> <p> : Load a saved page layout to the current page.</p>
(4)	[Motion Menu]	<p>Check this item to set a video as the menu background. Set the video to be used at the [Picture] tab in the [Menu Item Settings] dialog box.</p> <p>[Menu Item Settings] Dialog Box ▶ P449</p> <p>[Length] Enter the length of the motion menu. The maximum length is 1 minute.</p> <p>[Fade In]/[Fade Out] Check this item to add In/Out effects to the motion menu.</p>
(5)	Item list	<p>Displays the items shown in the edit screen as a list. If you click an item in the list, a red frame appears around the selected item in the edit screen. If you double-click or right-click an item or picture then click [Setting], the [Menu Item Settings] dialog box appears.</p> <p>[Menu Item Settings] Dialog Box ▶ P449</p>
(6)	[Setting]	<p>Select an item and click this button to display the [Menu Item Settings] dialog box.</p> <p>[Menu Item Settings] Dialog Box ▶ P449</p>

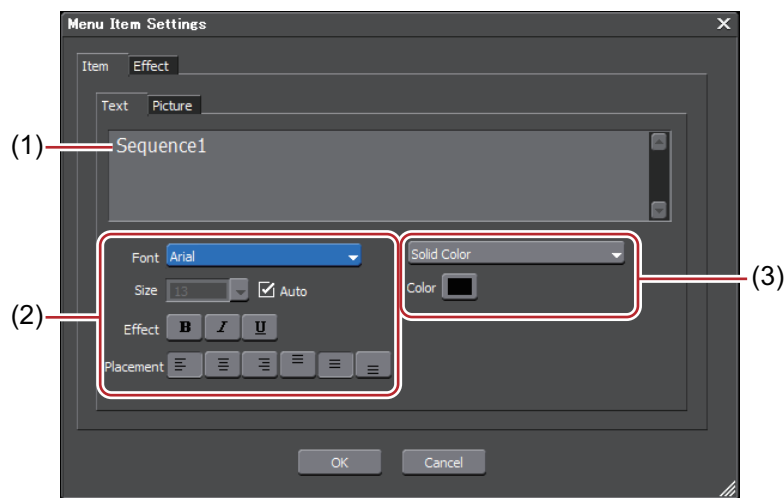
(7)	Item position/size	Change the position and size of an item by entering values.  : Display lines for guidance using a selected item as reference.  : Fix the aspect ratio of a selected item.
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- Multiple items can be selected by clicking items with the [Shift] key on the keyboard held down. If you right-click with multiple items selected, you can choose align top, align left, etc. by selecting [Placement].
- You can add an item or picture by right-clicking on the item list. You can delete an item or picture by right-clicking an added item or picture and clicking [Remove Item].

[Menu Item Settings] Dialog Box

[Item] → [Text] tab

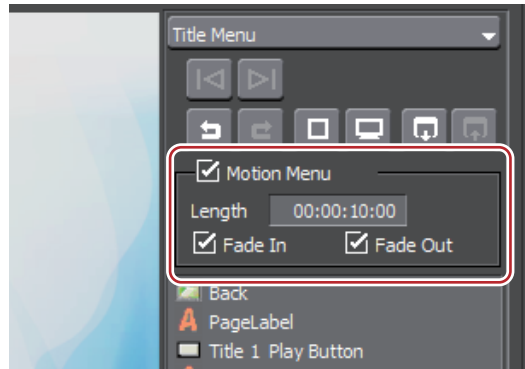


(1)	Text field	Enter the text to be displayed.
(2)	Text settings	Set the font, text size, decoration, and text position within the item display frame.
(3)	Color settings	Select from [Solid Color], [Gradation Color] or [Texture File]. Clicking [Color] displays the [Color Select] dialog box. [Color Select] Dialog Box ▶ P193 To select a texture file, click [...] and select a file.

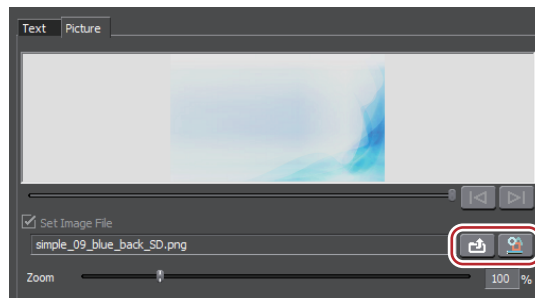
[Item] → [Picture] tab

Preview	Display a preview with the current settings.
[Change]	Click this item to change the image to be used for the thumbnail. Move the timeline cursor in EDIUS and click [Set].
[Set Image File]	Import an image file or sequence to use for thumbnails. Check this item and click [select image file] to select a file, or click [Select Sequence] to select a sequence.
[Zoom]	Change the zoom factor for an image by moving the position bar or by entering a value.

- If you use a motion menu, you can set the video to be used and the start position with the following operation.



Check [Set Image File] at the [Picture] tab in the [Menu Item Settings] dialog box. Click [select image file] or [Select Sequence] and select the video to be used.



Next, move the slider to set the start position of the video. Fine adjustments can be made to the start position with [1 Frame Back] or [1 Frame Forward].



[Effect] → [Frames] tab

[Add Effects]	Check this item to apply effects such as a frame or shadow to thumbnails. If you selected [Picture Frame], click [...] and select a file to use as a frame.
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[Write] Tab

[Output] tab

[Settings]	Set the number of discs to write to and the volume label.
Drive information	Set which drive to use and the write speed.

[Enable Detailed Settings]	<p>Check this item to add setting items.</p> <p>[Folder Settings] Specify the folder in which to save files (such as MPEG and disc image files) that are created for the purpose of making a disc.</p> <p>[Compile disc image to folder] Check this item to create only the disc image file, without writing it to disc media.</p> <p>[Create Disc and Also Export as Image File] Check this item to prevent deletion of the disc image file after the disc image file has been written to disc media. Check this item to save the disc image file on the HDD.</p> <p>[Verify Disc After Creating] Check this item to verify that data can be read correctly after having been written to media.</p> <p>[Number of Drives] Simultaneously write to a specified number of multiple drives. The settings tab for each drive is displayed in the drive information.</p>
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- To create multiple discs with the same content, after 1 disc is created change the disc and continue the disc creation.
- The disc image file that remains when [Create Disc and Also Export as Image File] is checked is overwritten upon export of another movie. If you need that disc image file, either change the folder settings or move the file from the save destination.

[Option] tab

[First play command]	Select the action performed when a created disc is inserted into a disc player.
[Command after playing movie]	Select the action performed after a playback of one title.
[Command after playing the last movie title]	Select the action performed after a playback of all titles.

Writing a Disc Image File to a Disc

You can write disc image files to disc.

You can write saved disc image files to disc. Make sure that the disc image file is saved to a preferred folder.

1 Click [Tool] on the menu bar, and click [Disc Burner].



Alternative

- Click [Tool] in the bin window, and click [Disc Burner].

2 Select the folder where the disc image file is saved, and click [OK].

3 Configure the export settings.

[Media]	Select the type of media to export to from the list.
[Settings]	Set the number of discs to write to and the volume label.
Drive information	Set which drive to use and the write speed.
[Image Folder]	Select the folder in which the disc image file is saved. If outputting to DVD, be sure to specify a folder that contains a "VIDEO_TS" folder and "AUDIO_TS" folder. If outputting to BD, make sure to specify a folder that contains a "BDMV" folder and "CERTIFICATE" folder.
[Verify Disc After Creating]	Check this item to verify that data can be read correctly after having been written to media.
[Number of Drives]	Simultaneously write to a specified number of multiple drives. The settings tab for each drive is displayed in the drive information.



- To create multiple discs with the same content, after 1 disc is created change the disc and continue the disc creation.

4 Click [Create Disc].

Start writing to disc.

Exporting to Tape

Exporting to Tape

Exporting to an HDV Device (Generic HDV)

Convert the edited clip to a format to be exported to an HDV device (MPEG-TS format), and export the converted file to the HDV device.

Note

- Before exporting, make sure to save your project.

Exporting Files with an HDV Exporter

1 Click [HDV] in the [Print to File] dialog box category tree.

Exporting Files with an Exporter ► P420

2 Click [HDV], and click [Export].

The [HDV] dialog box appears.

[Segment Encode]	Check this item to export a clip of a raw source without re-encoding. This increases the output speed. If the frame rate of the export format is 23.98p, segment encode is not available. [Quality/Speed] Select the quality of the part to be re-encoded from the list. The higher the quality, the more time it takes to be encoded.
[Gop Type]	Only displayed when the export format frame rate is 23.98p. Select the format from [HDV24p Record (Canon XL-H1, Sony HVR-Z7 etc.)] or [HDV24p Scan (Sony HVR-V1, HDV1080i devices)].
[Launch MPEG TS Writer after export]	Check this item to start up MPEG TS Writer automatically after export to file. <i>Exporting an Exported File to Tape</i> ► P453
[Tape out after export]	Becomes enabled when [Launch MPEG TS Writer after export] is checked. If checked, the data in the generated file is printed to tape with MPEG TS Writer. <i>Exporting an Exported File to Tape</i> ► P453

3 Enter a file name, select the save destination and click [Save].

A file is produced and registered in the bin.

Exporting an Exported File to Tape

1 Connect the PC IEEE1394 terminal to the HDV device with a DV cable.

Set the HDV device to video mode (PLAY/EDIT, etc.).



- If your HDV device supports the HDV mode, set the device to the HDV mode. For more information on settings, see the instruction manual for your HDV device.

2 Click [Tool] on the menu bar, and click [MPEG TS Writer].



Alternative

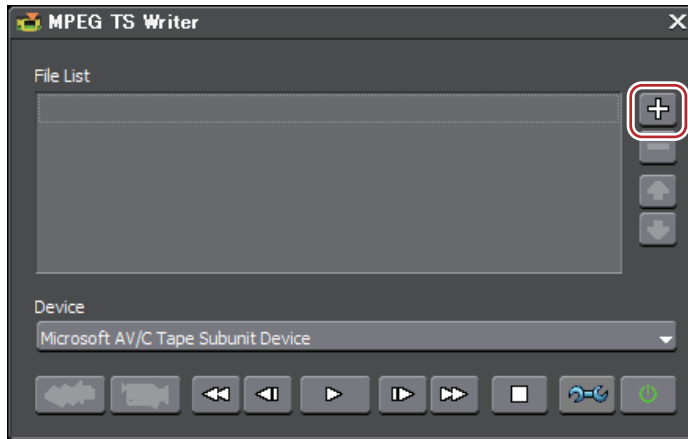
- Click [Tool] in the bin, and click [MPEG TS Writer].

3 Select [Microsoft AV/C Tape Subunit Device] from the [Device] list.

Note

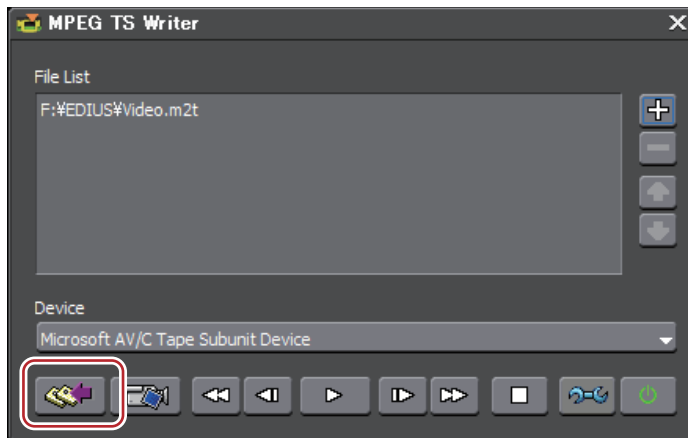
- If the HDV camera is not recognized, check the items in [Sound, video and game controller] on the Device Manager. The camera will be recognized correctly in Windows 7 if the device name is displayed. If it is not recognized, check that Windows is updated, and that the HDV camera is set to the HDV fixed mode (HDV-DV conversion is off).

4 Click [Add File to List].



5 Select the exported file, and click [Open].

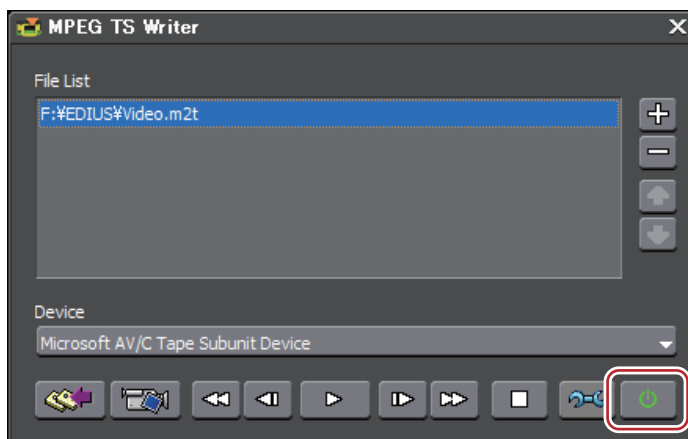
6 Click [Write].



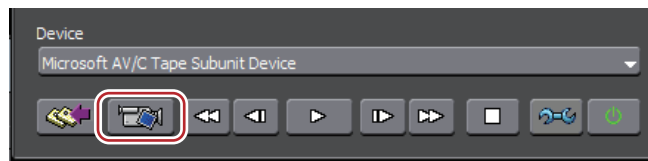
Printing starts.

7 Click [OK].

8 Click [Exit].



- If you click [Preview], the video will be output from the component output of the HDV camera. (not recorded to tape.)



Exporting to a DV Device (Generic OHCI)

You can output data to DV devices.

Note

- You need to register the export destination DV device as a device preset in advance.
- Registering Device Presets** ▶ P106
- Output cannot be performed if the output format in the registered device preset for the DV device differs from the current project settings.

1 Connect the PC IEEE1394 terminal to the DV device with a DV cable.

Set the DV device to video mode (PLAY/EDIT, etc.).

2 Click [Export] on the Recorder.



3 Click [Print to Tape] or [Print to Tape (Display Timecode)].

Alternative

- Click [File] on the menu bar, and click [Export] → [Print to Tape] or [Print to Tape (Display Timecode)].
- Exporting to tape: [F12]

- If the message [There is no output preset to match the project settings.] is displayed, configure the project settings and device preset format again.

4 Select a device preset, and click [Next].

The device presets that can be output with the current project settings are displayed.

5 Cueup to the position to start writing on tape.

- To specify the start position to print to tape, check [Rec In] and enter the timecode. If you click [Cue Up], the tape will cueup to the position of the entered timecode.

6 Click [Next].

7 Confirm the details, and click [Export].

Starts timeline playback and export.

The [Print To Tape] dialog box disappears when the export finishes.

- Click [Cancel] to abort the export.
- If In and Out points have been set on the timeline, that range will be exported.

Exporting Stereoscopic Projects to Tape

To export projects created in the stereoscopic edit mode to tape, you must first register the corresponding device preset. Set the export method in the [Output H/W, Format Settings] screen for device presets.

Registration of Device Presets ▶ P113

Combining L/R and Exporting to Tape

Combine and export the video of the L and R sides of the project to tape.

Select the following items in the [Settings - Stereoscopic Setting] screen for device presets:

- [L Only]
- [R Only]
- [Side by Side]
- [Top and Bottom]
- [Line Interleave]
- [Blend]
- [Anaglyph]
- [Difference]
- [Split Grid]

The operation procedure is the same as regular export to tape.

Exporting to a DV Device (Generic OHCI) ▶ P455

Exporting L/R to Separate Tape

Export the video of the L and R sides of the project to separate tape.
Select [Yes] in [Stereoscopic Separate L/R Clips] for device presets.

1 Perform steps 1 to 7 in “Exporting to a DV Device (Generic OHCI)”.

Exporting to a DV Device (Generic OHCI) ▶ P455

The message [Insert L tape] is displayed after step 7.

2 Insert the tape for the L side into the camera, and click [OK].

Export of L side data is started.

When export ends, the message [Insert R tape] is displayed.

3 Insert the tape for the R side into the camera, and click [OK].

Export of R side data is started.

The [Print To Tape] dialog box disappears when the export finishes.

- ☞ • Click [Cancel] to abort the export.
- If In and Out points have been set on the timeline, that range will be exported.

Exporting to Devices Not Controlled by Deck

You can output data to analog devices, etc.

1 Switch the analog device settings to external input for recording.

2 Click [Play] on the Recorder.



Export of the data starts.

3 Click [Stop] on the Recorder to stop export.



Export of the data stops.

4 Recording by the analog device stops.

Exporting to a VARICAM Device

You can export clips edited with EDIUS to an AJ-HD1400 or AJ-HD1200A connected to the PC via an IEEE1394 cable.

⚡ Note

- You need to register the export destination VARICAM device as a device preset in advance.

Registration of Device Presets ▶ P113

- Export cannot be performed if the output format of the device preset for the VARICAM device differs from the current project settings.
- The audio sampling rates will differ for frame frequencies of 59.94 Hz and 60.00 Hz.
- If the frame rate is changed in 1 shot, the lip sync will be out of sync. If necessary, sync the lip sync with waveform editing software then export.


1 Click [Export] on the Recorder.



2 Click [Print to Tape] or [Print to Tape (Display Timecode)].

Alternative


- Click [File] on the menu bar, and click [Export] → [Print to Tape] or [Print to Tape (Display Timecode)].
- Exporting to tape: [F12]

-  • If the message [There is no output preset to match the project settings.] is displayed, match the device preset format to the project settings.

3 Select a device preset, and click [Next].

The device presets that can be export with the current project settings are displayed.


4 Click [Next].

-  • To specify the start position to print to tape, check [Rec In] and enter the timecode. If you click [Read TC from VCR], you can import the current timecode from the tape.

5 Confirm the details, and click [Export].

Timeline playback and export start.

The [Print To Tape] dialog box disappears when the export finishes.

-  • Click [Cancel] to abort the export.
- If In and Out points have been set on the timeline, that range will be exported.

CHAPTER 12

Interaction with STRATUS

This chapter explains the interaction function between EDIUS and STRATUS.

Preparation

Installation

Installing K2 EDIUS Connect

Install K2 EDIUS Connect in a PC whose setup including network connection to the K2 Media server has been completed.

* The content on the installation screen may differ depending on the software version.

**Note**

-
- Before installing K2 EDIUS Connect, you need to install EDIUS Elite.
 - Close all other applications including resident software before installation.
 - Installation requires the account authorized for the administrator (such as PC administrator).

1 Set the EDIUS Options installation disc into the CD drive.

2 Open the EDIUS Options installation disc, and double-click Setup.exe.

3 Click [Next].

4 Click [I Agree] to agree to the license agreement.



- Click [Cancel] to cancel the installation. If you do not agree to the license agreement of this software, please contact our customer support in writing.

**Note**

-
- Be sure to read through all of the terms and conditions by scrolling the window.

5 Enter the host name of the FSM server, and then click [Next].

6 Click [Install].

Installation of K2 EDIUS Connect starts.

7 Select [I want to reboot my computer now.], and click [Done].

PC is rebooted. The installation is complete.

Interaction Function with STRATUS

Linking Assignment List Placeholder to EDIUS Project

Linking Placeholder to an EDIUS Project

You can perform the operation from creating a project to outputting the data smoothly to link the EDIUS project to Placeholder in Assignment List.

If you have linked the project to the Placeholder, the TC preset and expected length of the Placeholder will be applied to the project settings.

Linking to a Placeholder can be performed either before, in the middle, or after editing.

You can proceed to step **1** to link the project to Placeholder before editing.

You can proceed to step **5** to link the project to Placeholder in the middle of editing.

You can proceed to step **6** to link the project to Placeholder after editing.


Note

- The K2 clip created by exporting a sequence is linked to Placeholder.
- FAT sequence is not supported.
- The export destination of Placeholder and the name of the asset must be set in STRATUS Control Panel before you start the operation. See STRATUS Installation and Service Manual for more details.
- Before you start the operation, display Assignment List on STRATUS. For more information on how to operate STRATUS, see The STRATUS Application User Manual.

1 Start up EDIUS.

2 Click [New Project] in the [Start Project] dialog box.

The [Project Settings] (Simple Settings) dialog box appears.

-  • When you start up EDIUS for the first time and click [New Project], the [Create Project Presets] wizard will start up. Create a new project preset for the format of your new project.


3 Drag and drop Placeholder to be linked from STRATUS to the [Drag and drop] area in the [Project Settings] dialog box of EDIUS.

In the folder with the same name as the Placeholder, a project file with the same name as the Placeholder is created.

4 Select a preset in the [Project Settings] dialog box of EDIUS, and click [OK].


If you have linked the project to Placeholder, the following items in the [Inspector] dialog box of Placeholder will be updated on STRATUS.

- [Being Edited] is checked.
- "A user name who has linked the project@host name" appears in [Creator].

-  • When another STRATUS client is editing Placeholder ([Being Edited] of the [Inspector] dialog box is checked and another editor name is displayed in [Creator]), a message appears asking whether to continue.
- When the status of Placeholder is [READY], a message appears asking whether to continue.
- When the frame rate setting of the project does not match the frame rate set for STRATUS, a message appears asking whether to continue.

5 Edit the project with EDIUS.

The expected length of the linked Placeholder and the TC preset are applied on the timeline display.

-  • You can link the project to Placeholder or change the linked Placeholder while editing. Click [Settings] on the menu bar, and click [Project Settings]. Drag and drop Placeholder to be linked from STRATUS to the [Drag and drop] area in the [Project Settings] dialog box of EDIUS. (The expected length and TC preset of Placeholder linked while editing will be applied to the project settings, but will not be applied on the timeline display. Create a new sequence to apply them to the timeline display.)

6 Check the settings of the exporter to be used for export.

STRATUS Exporter Settings ▶ P465

7 Press [F11] on the keyboard on EDIUS.

The [Print to File] dialog box appears.

Alternative

- Click [Export] on the Recorder, and click [Print to File].



- Click [File] on the menu bar, and click [Export] → [Print to File].

8 Click [STRATUS] on the category tree.

9 Select [STRATUS Exporter], and click [Export].

The [STRATUS Exporter for Assignment List] dialog box appears. If linking to Placeholder is not necessary, proceed to step 11.

10 Drag and drop Placeholder to be linked from STRATUS to the [Drag and drop] area in the [STRATUS Exporter for Assignment List] dialog box of EDIUS.

11 Check the Placeholder details in [Property], and export destination in [Output].

The exported clip is named as “Placeholder name_serial number”.



- To check the export settings, click [Show Setting] in the [STRATUS Exporter for Assignment List] dialog box and display the [ALP Exporter Encoder Information] dialog box. To change the settings, configure the system settings again.

STRATUS Exporter Settings ▶ P465

- When another STRATUS client is editing Placeholder ([Being Edited] of the [Inspector] dialog box is checked and another editor name is displayed in [Creator]), a message appears asking whether to continue.
- When the status of Placeholder is [READY], a message appears asking whether to continue.

12 Click [OK] in the [STRATUS Exporter for Assignment List] dialog box of EDIUS.

The export begins.

When the file transfer has completed, the status of Placeholder changes to [READY] on STRATUS, and output of the file becomes available.

Also, the check mark of [Being Edited] in the [Inspector] dialog box of Placeholder is removed.



- If you have closed the project after saving it without exporting, the linked Placeholder information is also saved.
- If you have closed the project after saving it without exporting, the status of [Being Edited] changes according to the Placeholder status at the time when it is linked to the project.
 - If the status is [NOT READY]: [Being Edited] remains on even after the project has been closed.
 - If the status is [READY]: [Being Edited] becomes off after the project has been closed. When the project is opened again, it will be checked.

Settings for Importing and Exporting K2 Clip Files

K2 Server (SAN) Settings

You need to configure the connection to a K2 Media server before performing editing operations working with the K2 Media.

After configuring the connection, you can use the source browser to view a K2 Clip format clip stored on the storage drive that is managed by the K2 Media server.

1 Click [Settings] on the menu bar, and click [System Settings].

2 Click the [Importer/Exporter] tree, and click [K2 (SAN)] → [Server].

3 Set each item.

[Server List]	This is the list of servers (K2 Media servers) that is displayed in the folder view of the source browser.
[Add]	Click this item to display the [Server settings] dialog box for adding connection servers. [Server settings] Dialog Box ▶ P464

[Delete]	Delete servers from [Server List].
[Modify]	Change the server settings.
[Move Up]/[Move Down]	Sort the list. Select a server from [Server List] and move the selected server one place up or down with each click of [Move Up] or [Move Down].
[Settings]	Display the settings of the connection selected in [Server List].

4 Click [OK].

You can continue to set other items by clicking [Apply].

[Server settings] Dialog Box

[Name]	Enter the name of the server to display in the folder view.
[Address]	Enter the IP address or server name of the server.
[Username]/[Password]	Enter the user name and password required when making the connection.
[Domain]	Enter the domain of the server.
[Storage Drive]	Select the drive you assigned on the client PC side to the V: drive of the server.
[Show only SNFS drivers]	Normally, check this item.
[Connection Test]	Click this button to test the connection to the server with the settings entered in the [Server settings] dialog box.



- To use the product in stand-alone with K2 Summit, set the K2 Summit C: drive to be used for the network drive of the client PC. Check [Show only SNFS drivers] in the [Server settings] dialog box, and then select the assigned drive from the [Storage Drive] list.

Browser Settings

Set items that are allowed when connecting to the K2 Media server.

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Importer/Exporter] tree, and click [K2 (SAN)] → [Browser].
- 3 Set each item.

[Allows Users to Rename/Delete Clips and Bins.]	Check this item to allow renaming/deleting clips and bins that are managed by a server.
--	---

4 Click [OK].

You can continue to set other items by clicking [Apply].

K2 Project Importer Settings

You can configure the behavior when importing an edit list in Program/List format that will be managed by a K2 Media server to EDIUS as a sequence.

- 1 Click [Settings] on the menu bar, and click [System Settings].
- 2 Click the [Importer/Exporter] tree, and click [K2 (SAN)] → [K2 Project Importer].

3 Set each item.

[Start Timecode]	Configure the settings for start timecodes of imported sequences. [Use Source In timecode of the head clip.] Use the start timecode of the first clip. [Input start timecode.] Enter the start timecode (optional).
-------------------------	---

4 Click [OK].

You can continue to set other items by clicking [Apply].

K2 Project Exporter Settings

You can configure the behavior when exporting a project file that you edited using EDIUS in K2 Program format.

1 Click [Settings] on the menu bar, and click [System Settings].**2 Click the [Importer/Exporter] tree, and click [K2 (SAN)] → [K2 Project Exporter].****3 Set each item.**

[Add Ancillary Data from Source Clip when Exporting as K2 Programs. (Rendered Areas will Lose Ancillary Data.)]	Check this item to output video appended with ancillary data such as closed captions.
--	---

**Note**

- Ancillary data can be appended only when exporting raw video.
Ancillary data cannot be appended if you modify video by, for example, adding effects or screen text.

4 Click [OK].

You can continue to set other items by clicking [Apply].

STRATUS Exporter Settings

You can configure the settings of the exporter used when exporting a project linked to Placeholder in Assignment List.



- The following exporters support smart rendering:
 - [K2 DV Clip]
 - [K2 DVCPRO HD Clip]
 - [K2 AVCIntra Clip]
 - [K2 D10 Clip]
- The [K2 MPEG2 Clip] exporter supports segment encoding.

1 Click [Settings] on the menu bar, and click [System Settings].**2 Click the [Importer/Exporter] tree, and click [STRATUS] → [STRATUS Exporter].****3 Set each item.**

[Video Encoder to be used]	Select a K2 Clip exporter used to export a file from the list.
-----------------------------------	--

[Video settings]	<p>[Video settings] will be displayed depending on the exporter selected in [Video Encoder to be used].</p> <p>The displayed items are the same as the setting items for each codec that is displayed in the [Project Exporter (K2 Program)] dialog box. For more information on the settings for each exporter, refer to the following references.</p> <ul style="list-style-type: none"> • [K2 DV Clip] exporter <i>Video settings — DV ▶ P475</i> • [K2 AVCIntra Clip] exporter <i>Video settings — AVCIntra ▶ P476</i> • [K2 D10 Clip] exporter <i>Video settings — D10 ▶ P475</i> • [K2 MPEG2 Clip] exporter <i>Video settings — MPEG2 ▶ P476</i>
[Audio settings]	<p>[Channels] Select the number of audio channels you want to export from the list.</p> <p>[Quantization Bits] Select an audio quantization bitrate from the list.</p> <p>[Ch 1&2] - [Ch 15&16] Select the channel to output bitstream when outputting audio with the audio bitstream retained.</p>

4 Click [OK].

You can continue to set other items by clicking [Apply].

K2 Asset Registration Settings

You can configure the default K2 Media server and the behavior when exporting a clip from EDIUS to the K2 Media server.

1 Click [Settings] on the menu bar, and click [User Settings].**2 Click the [Source] tree, and click [Register K2 Asset].****3 Set each item.**

[Destination Server]	<p>Click the list to display the list of the K2 Media servers of the connection destination.</p> <p><i>K2 Server (SAN) Settings ▶ P463</i></p> <p>Select the default K2 Media server when transferring clips to the K2 Media server.</p>
[Destination Bin]	<p>[Destination Path] Display the path of the export destination. The settings made in [Base Bin] and [Create Bin] are applied.</p> <p>[Base Bin] Select the bin to be the base of the export destination from the list.</p> <p>[Create Bin] Check this item to add a bin to a location selected in [Base Bin]. Select one of the bin names from the [Template] list which includes names consisting of {{User Name}}/{{Date}}/{{Project Name}}/{{Custom}} in different combinations. If you select {{Custom}}, enter desired characters in [Custom].</p>
[Clip Name Prefix]	<p>Set the prefix to add on clip names. Select one of the prefixes from the [Template] list which includes names consisting of {{User Name}}/{{Date}}/{{Project Name}}/{{Custom}} in different combinations. If you select {{Custom}}, enter desired characters in [Custom]. If a prefix is not necessary, select {{Custom}} and leave [Custom] blank.</p>

[Register selected clips as K2 Program]	Check this item to register clips in the same format as a single K2 Program format clip to the bin on the K2 Media server when selecting and exporting multiple clips. (This is valid only when the frame rate and field order of all clips are the same.)
[Register K2 Asset material to Bin when registering material from Bin to K2 Asset.]	Check this item to register K2 Clip format clips, which have been exported from the bin to the K2 Media server, to the bin of EDIUS.
[Register K2 Asset material to Bin when registering material from Source Browser to K2 Asset.]	Check this item to register K2 Clip format clips, which have been exported from the source browser to the K2 Media server, to the bin of EDIUS.

4 Click [OK].

You can continue to set other items by clicking [Apply].

Loading K2 Clip Files to Be Managed by the K2 Media Server



- While another EDIUS client on the same network is capturing a source in K2 Clip format, edit while recording can be performed by loading the captured data.
- Edit lists in Program/List format are loaded as sequence clips.



Note

- You cannot load an edit list in Program/List format in the following conditions:
 - The frame rate is different from that of the EDIUS project file.
 - No valid clip exists in the Program/List data.
 - The Program/List data is in invalid video format.
 - Generating video/audio tracks or setting the channel map has failed while loading a clip.
 - The Program data is being recorded.
- The following information contained in the Program/List data cannot be reproduced with EDIUS.
 - The Repeat setting contained in List and Section under List
 - The Stop setting contained in List, Section under List, and Event under Section
- When loading an edit list in Program/List format, the system will not load audio tracks that exceed the number of channels in the project settings.

Loading K2 Clip Files from STRATUS

Registering K2 Clip Files to a Bin

1 Select a clip on STRATUS, and drag and drop it to the bin of EDIUS.

You can select multiple clips.

The clip is registered in the current folder of the bin.

For a Program/List format clip, a dialog box appears indicating that loading is being performed. The clip is registered in the bin as a sequence clip when loading the clip is complete.



- If you click [Cancel] in the dialog box that is displayed while loading a Program/List format clip, all of the previously loaded clips will become invalid.

Placing K2 Clip Files on the Timeline

1 Select a clip on STRATUS, and drag and drop it to the timeline of EDIUS.

You can select multiple clips.

For a Program/List format clip, a dialog box appears indicating that loading is being performed. The clip is placed on the timeline as a sequence clip when loading the clip is complete.



- If you click [Cancel] in the dialog box that is displayed while loading a Program/List format clip, all of the previously loaded clips will become invalid.

Loading K2 Clip Files from Source Browser

You can use the source browser to load K2 Clip format clips that will be managed by a K2 Media server. Before performing these steps, you must configure the connection to a K2 Media server and the behavior when importing an edit list in Program/List format.


K2 Server (SAN) Settings ▶ P463


K2 Project Importer Settings ▶ P464


Registering K2 Clip Files to a Bin

1 Click the [K2 (SAN)] tree in the folder view of the source browser, and click a connection destination.

The information on the K2 Media server is displayed in the clip view.

A Program/List format clip is displayed with the icon .

A clip that is being captured by another EDIUS client is displayed with the icon  indicating that the system is generating a file.

-  • To update the information of the server, right-click the connection destination, and click [Refresh].

2 Drag and drop a clip to the bin.

The clip is registered in the current folder of the bin.


For a Program/List format clip, a dialog box appears indicating that loading is being performed. The clip is registered in the bin as a sequence clip when loading the clip is complete.

Alternative

- Select a clip, and click [Add to Bin] in the source browser.



- Select and right-click a clip, and click [Add to Bin].

-  • If you click [Cancel] in the dialog box that is displayed while loading a Program/List format clip, all of the previously loaded clips will become invalid.
- If [Allows Users to Rename/Delete Clips and Bins.] is checked in the browser settings, the following operations can be performed in the clip view of the source browser.


Browser Settings ▶ P464


- Click a clip name and rename it.
- Select a clip and press [F2] on the keyboard to rename it.
- Right-click a clip and click [Delete] to delete it.

Placing K2 Clip Files on the Timeline

1 Click the [K2 (SAN)] tree in the folder view of the source browser, and click a connection destination.

The information on the K2 Media server is displayed in the clip view.

A Program/List format clip is displayed with the icon .

A clip that is being captured by another EDIUS client is displayed with the icon  indicating that the system is generating a file.

-  • To update the information of the server, right-click the connection destination, and click [Refresh].

2 Drag and drop a clip to the timeline.

For a Program/List format clip, a dialog box appears indicating that loading is being performed. The clip is placed on the timeline as a sequence clip when loading the clip is complete.

Alternative

- Configure the source channel mapping and move the timeline cursor to the point where you want to place a clip. Select a clip, and click [Add to Timeline] in the source browser.



- Configure the source channel mapping and move the timeline cursor to the point where you want to place a clip. Select and right-click a clip in the source browser, and click [Add to Timeline].



- If you click [Cancel] in the dialog box that is displayed while loading a Program/List format clip, all of the previously loaded clips will become invalid.
- If [Allows Users to Rename/Delete Clips and Bins.] is checked in the browser settings, the following operations can be performed in the clip view of the source browser.

Browser Settings ▶ P464

- Click a clip name and rename it.
- Select a clip and press [F2] on the keyboard to rename it.
- Right-click a clip and click [Delete] to delete it.

Capturing Sources in K2 Clip Format

Capture Workflow

The workflow to capture sources in K2 Clip format using EDIUS is as follows.

1 Specify the save destination for the captured source.

You set the save destination for the source captured in K2 Clip format.

K2 Server (SAN) Settings ▶ P463

2 Connect external devices to a PC.

Connect the external devices, such as cameras or decks, you want to use for capturing to Grass Valley hardware or your PC.

3 Register a device preset that supports capturing in K2 Clip format.

Register setting items for the connection information or video format to load a clip in K2 Clip format, etc. as a device preset for the external devices, such as cameras or decks, you want to use for capturing as well as Grass Valley hardware. Select [K2 Clip] from the [File Format] list on the [Input H/W, Format Settings] screen.

Registering Device Presets ▶ P106

Detailed Codec Settings when Capturing in K2 Clip Format ▶ P469

4 Capture in K2 Clip format.

Capture sources in K2 Clip format.

Capturing in K2 Clip Format ▶ P470

Batch Capturing in K2 Clip Format ▶ P471

Detailed Codec Settings when Capturing in K2 Clip Format

The codec settings that support capturing in K2 Clip format are as follows.

[Settings - MPEG2 for K2 Clip] Dialog Box ▶ P470

[Settings - XDCAM HD422 Compatible] Dialog Box ▶ P109

[Settings - XDCAM EX Compatible] / [Settings - XDCAM HD Compatible] Dialog Box ▶ P109

[Settings - MPEG IMX] Dialog Box ▶ P109

[Settings - MPEG2 for K2 Clip] Dialog Box

[Bit Rate]	Select a bitrate type. [CBR] sets a fixed transfer rate, allocating a fixed number of bits during the encoding process. Select a bitrate from the [Average] list. You can also enter a value directly. [VBR] sets a variable transfer rate, altering the number of assigned bits according to the complexity of the movement or image quality. Compared with [CBR], the media volume can be used more efficiently, and this enables more consistent image quality overall. Select a bitrate from the [Average] and [Max] lists. You can also enter a value directly.
[Quality/Speed]	Select quality from the list.
[GOP Structure]	For MPEG, a certain number of frames is considered as a group, and operations such as compression/enlargement and cut editing are performed on a GOP basis. A GOP comprises "I frame", "P frame" and "B frame". The I frame allows images to be reproduced independently, the P frame is for recording and reproducing only the differences with the preceding image, and the B frame reproduces images from the differences in the preceding and following images. Select I, P and B frame patterns of the GOP from the list. Normally, select [IBBP]. [I-Frame Only] is comprised of only I-pictures. Editing is made easier, but the amount of data increases in size.
[Picture count]	Set the number of frames included in a group.
[Closed GOP]	Check this item to complete information within each GOP. Although the amount of data increases, the video can be re-edited using software that supports GOP-based editing. Normally, leave this item unchecked.
[Chroma Format]	Select a YUV pixel format from the list.
[Profile/Level]	Select a profile & level. If [Chroma Format] is [4:2:0] and [4:2:2], the profile will be set to Main Profile and 422Profile, respectively. The level for SD image quality will be Main Level, and the level for HD image quality will be High Level. The profile & level changes according to the format selected in [Chroma Format].

Capturing in K2 Clip Format

Capture sources in K2 Clip format.

Note

- Analog devices or devices that are connected via an HDMI terminal cannot be controlled from EDIUS. When you capture sources from a device that does not support deck control by EDIUS, you need to cue up to the part you want to capture beforehand.

1 Click [Capture] on the menu bar, and click [Select Input Device].

The [Select Input Device] dialog box appears, and the list of the device presets you registered in the system settings is displayed.

2 Select a device preset that supports capturing in K2 Clip format, and click [OK].

The [K2 Ingest Setting] dialog box appears.

[K2 Ingest Setting] Dialog Box ▶ P471

Alternative

- Click [Capture] on the menu bar, and click [Device Preset Name] to display the device preset.
- Click the device preset name ([Input Preset 1] to [Input Preset 8]) to display the device preset. (By default, [Input preset 2] to [Input Preset 8] are not displayed. Before performing the operation, set to display the buttons in the preview window.)

Operation Button Settings ▶ P119

- Displaying the device preset assigned to the input preset 1: [F2]
- Displaying the device preset assigned to the input preset 2: [F3]

- Displaying the device preset assigned to the input preset 3: [F4]

3 Configure the settings including the save destination and reel name for the source to be captured, and then click [OK].

When you capture sources from a device that supports deck control by EDIUS, you can operate the camera using the operation buttons on the Player.

When you capture sources from a device that does not support deck control by EDIUS, proceed to step 5.

4 Play back the source to capture, and set the In and Out points.

5 Click [Capture] on the Player.




The [K2 Ingest Setting] dialog box appears.

6 Change the clip name as necessary.

Capturing starts. The [Capture] dialog box appears.

For a device that supports deck control by EDIUS, capturing ends automatically at the Out point. Click [Stop] in the [Capture] dialog box to stop capturing halfway through the process. If you want to continue capturing, repeat steps 4 through 6.

For a device that does not support deck control by EDIUS, click [Stop] in the [Capture] dialog box to stop capturing and stop the playback on the device. If you want to continue capturing, cue up to the part you want to capture and then repeat steps 5 and 6.

The icon  indicating that the system is generating a file is displayed on the clip that is being captured in the source browser.

The captured clip is registered in the bin.

Alternative

- Press [F9] on the keyboard after step 4.



- During capture, you can add a marker with a comment to the source clip.
- During the capturing process, another EDIUS client on the same network can perform edit while recording by loading the captured data.

Loading K2 Clip Files to Be Managed by the K2 Media Server ▶ P467

- If you want to change the save destination or reel name halfway through the process, for example, when you replace the tape, click [Capture] on the menu bar and, click [K2 Ingest Setting].

Note

- If only the audio is captured, it is not displayed as a clip in the source browser window. A WAV file is saved in the project folder.

[K2 Ingest Setting] Dialog Box

[Server]	From the list, select the save destination for the source captured in K2 Clip format. K2 Server (SAN) Settings ▶ P463
[Bin]	Displays the list of bins in the save destination you selected in [Server]. Select the bin to register captured clips.
[Reel Name]	To set a reel name, uncheck [Use User Bit as a Reel Name] and enter a reel name. You can also select the previously entered reel names from the list.

Batch Capturing in K2 Clip Format

The following explains how to batch capture sources in K2 Clip format.

1 Click the [Add to Batch Capture List] list button on the Player.



2 Click [Batch Capture].

The [Batch Capture] dialog box appears.

[Batch Capture] Dialog Box ▶ P152

Alternative

- Click [Capture] on the menu bar, and click [Batch Capture].
- Displaying the [Batch Capture] dialog box: [F10]

3 From the [Input Settings] list, select a device preset that supports capturing in K2 Clip format.

The [K2 Ingest Setting] dialog box appears.

[K2 Ingest Setting] Dialog Box ▶ P471

4 Configure the settings including the save destination and reel name for the source to be captured, and then click [OK].

5 Play back the source to capture, and set the In and Out points.

When the In point is placed ahead of the Out point on the timeline, the text in that row is displayed in red. This area will not be captured.

- The In point and duration can also be specified as the capture range. After setting the In point, click the [Dur] timecode on the Player to enter the duration and then press [Enter] on the keyboard.

6 Click [Add to Batch Capture List] in the [Batch Capture] dialog box.

Alternative

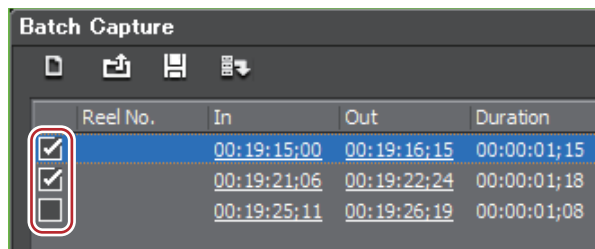
- Click [Add to Batch Capture List] on the Player.
- Click the [Add to Batch Capture List] list button on the Player, and click [Video and Audio].
- Adding to batch capture list: [Ctrl] + [B]



7 Repeat steps 5 to 6.

If you want to change the device preset or change the save destinations/reel names for the sources to be captured, repeat the operations in steps 3 through 6.

8 Turn on the check buttons for the sources to capture from the list in the [Batch Capture] dialog box.

The check buttons are turned on immediately after the sources are added to the list.




- The [File Name] column in the [Batch Capture] dialog box shows the save destination addresses of the captured clips. To rename a file, click it and enter any characters. Clicking  displays the [K2 Ingest Setting] dialog box. You can select multiple sources and click  to change the save destinations for a group of sources.

[K2 Ingest Setting] Dialog Box ▶ P471

9 Click [Capture].

If a reel name is not set in step 4, capturing starts and the progress is displayed in [Status] of the [Batch Capture] dialog box.

The icon  indicating that the system is generating a file is displayed on the clip that is being captured in the source browser.

The captured clip is registered in the bin.


If you set a reel name in step 4, proceed to step 10.

10 Insert a tape in your camera, and select the corresponding reel name from the [Please insert the tape, and select the reel name.] list.

The time required for capturing is indicated next to the reel name.

11 Click [OK].

Capture of the source corresponding to the selected reel name starts, and the progress is displayed in [Status] of the

[Batch Capture] dialog box. The icon  indicating that the system is generating a file is displayed on the clip that is being captured in the source browser.

The captured clip is registered in the bin.

If you have set multiple reel names, repeat steps 10 to 11.

**Note**

- If only the audio is captured, it is not displayed as a clip in the source browser window. A WAV file is saved in the project folder.

Exporting a Clip to the K2 Media Server

The clips in the bin or displayed in the source browser can be exported to the K2 Media server. The clips will be automatically converted to K2 Clip format when exported.

Before performing this operation, you must configure the connection to a K2 Media server to be the export destination.

K2 Server (SAN) Settings ▶ P463

Setting the default value of the destination K2 Media server in the user settings makes the export operation easier.

K2 Asset Registration Settings ▶ P466



- Clip markers remain on the clips exported to the K2 Media server.

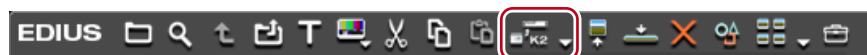
**Note**

- When an In point, Out point, or duration of 720p format clips is an odd number of frames, the clip cannot be transferred.

Exporting a Clip from the Bin to the K2 Media Server

1 Select a clip in the bin.

You can select multiple clips.

2 Click [Register K2 Asset] in the bin.**3 Click [Register with default setting] or [Register by changing the setting].**

If you click [Register by changing the setting], the [Register K2 Asset] dialog box appears. Set the export destination, and then click [OK].

K2 Asset Registration Settings ▶ P466

The clip will be exported as a background job to the K2 Media server.

Single clips will be converted in the K2 Clip format, and sequence clips will be converted to the K2 Program format.

**Alternative**

- Right-click a clip in the bin, and click [Register K2 Asset] → [Register with default setting] or [Register by changing the setting].

- While converting clips, another EDIUS client on the same network can edit while recording by loading the converted data.

Exporting a Clip from Source Browser to the K2 Media Server

You can use the source browser to export sources in XDCAM/XDCAM EX/P2/GF/XF devices to the K2 Media server.

- After exported to the K2 Media server, the format-dependent information of clips is deleted.

- 1 **Connect a device or drive to your PC and insert the media.**
- 2 **Click the device tree in the folder view of the source browser, and select a clip.**
You can select multiple clips.
- 3 **Click [Register K2 Asset] in the source browser.**



- 4 **Click [Register with default setting] or [Register by changing the setting].**

If you click [Register by changing the setting], the [Register K2 Asset] dialog box appears. Set the export destination, and then click [OK].

K2 Asset Registration Settings ▶ P466

The clip will be exported as a background job to the K2 Media server.

Single clips will be converted in the K2 Clip format, and edit lists such as playlists will be converted to the K2 Program format.

Alternative

- Right-click a clip in the source browser, and then click [Register K2 Asset] → [Register with default setting] or [Register by changing the setting].

- While converting clips, another EDIUS client on the same network can edit while recording by loading the converted data.

Exporting a Project File in K2 Program Format

A project file edited with EDIUS can be exported as a K2 Program format clip.

The system performs export processes with smart rendering, which reduces the amount of transferred data and enables high-speed project export to your K2 Media server.

Before performing these steps, you must configure the connection to a K2 Media server and whether ancillary data will be appended.

K2 Server (SAN) Settings ▶ P463

K2 Project Exporter Settings ▶ P465

Note

- Only active sequences will be exported.
- The following items are fully rendered and exported.
 - Frame rate, resolution, parts where the aspect ratio differs from that of the project setting
 - Audio component (The audio component will be rendered even when smart rendering is performed on the clip.)
 - Parts where effects are applied
 - Color bar component
 - Color matte component
- Exporting files in 1280×720 50p and 1280×720 59.94p formats are subject to the following restrictions.
 - Odd numbers of frames cannot be output.
 - Projects including clips with odd numbers of frames will be rendered.
 - Projects including a clip whose In point on the timecode of the source or timeline is in an odd number of frames will be rendered.

- 1 **Click the [Save Project] list button on the timeline.**



2 Click [Export Project] → [K2 Program].

The [Project Exporter (K2 Program)] dialog box appears.

[Project Exporter (K2 Program)] Dialog Box ► P475




Alternative

- Click [File] on the menu bar, and click [Export Project] → [K2 Program].
- Click the [K2 (SAN)] tree in the source browser window, and then click the export destination. Drag and drop the sequence clip in the bin to the export destination.
- Click the [K2 (SAN)] tree in the source browser window, and then click the export destination. Drag and drop the sequence tab to the export destination.

3 Set each item and click [OK].

A progress bar will show the export progress.

The icon  indicating that the system is generating a file is displayed on the clips that are being exported in the source browser.

[Project Exporter (K2 Program)] Dialog Box

[Clip Name]	Enter a clip name.
[Destination]	<p>[Server] Select a clip export destination from the list. <i>K2 Server (SAN) Settings</i> ► P463</p> <p>[Bin] Displays the list of bins in the export destination you selected in [Server]. Select the bin to register the exported K2 Clip format clips.</p> <p>[Overwrite file when it exists] Check this item to overwrite a file if any file with the same clip name is already registered in the bin in the export destination.</p>
[Change Settings]	Check this item to change the settings for [Video Compression Type] and [Audio settings].
[Video Compression Type]	<p>Select the codec you want to use for video part rendering. [Video settings] is displayed depending on the codec.</p> <p><i>Video settings — DV</i> ► P475 <i>Video settings — D10</i> ► P475 <i>Video settings — AVCIntra</i> ► P476 <i>Video settings — MPEG2</i> ► P476</p>
[Audio settings]	<p>[Channels] Select the number of audio channels you want to export from the list.</p> <p>[Quantization Bit Rate] Select an audio quantization bitrate from the list.</p> <p>[Ch 1&2] - [Ch 15&16] Select the channel to output bitstream when outputting audio with the audio bitstream retained.</p>

Video settings — DV

[Format]	Select an export format from the list.
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Video settings — D10

[Bit Rate]	Select a bitrate from the list.
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Video settings — AVCIntra

[Format]	Select an export format from the list.
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Video settings — MPEG2

[Format]	Select an export format from the list.
[Segment Encode]	Check this item to export a clip of a raw source without re-encoding. This increases the output speed.
[Quality/Speed]	Select quality from the list.
[Bit Rate]	Select a bitrate type. [CBR] sets a fixed transfer rate, allocating a fixed number of bits during the encoding process. Select a bitrate from the [Average] list. You can also enter a value directly. [VBR] sets a variable transfer rate, altering the number of assigned bits according to the complexity of the movement or image quality. Compared with [CBR], the media volume can be used more efficiently, and this enables more consistent image quality overall. Select a bitrate from the [Average] and [Max] lists. You can also enter a value directly.
[GOP Structure]	For MPEG, a certain number of frames is considered as a group, and operations such as compression/enlargement and cut editing are performed on a GOP basis. A GOP comprises "I frame", "P frame" and "B frame". The I frame allows images to be reproduced independently, the P frame is for recording and reproducing only the differences with the preceding image, and the B frame reproduces images from the differences in the preceding and following images. Select I, P and B frame patterns of the GOP from the list. Normally, select [IBBP]. [I-Frame Only] is comprised of only I-pictures. Editing is made easier, but the amount of data increases in size.
[Picture count]	Set the number of frames included in a group.
[Closed GOP]	Check this item to complete information within each GOP. Although the amount of data increases, the video can be re-edited using software that supports GOP-based editing. Normally, leave this item unchecked.
[Chroma Format]	Select a YUV pixel format from the list.
[Profile/Level]	Select a profile & level. If [Chroma Format] is [4:2:0] and [4:2:2], the profile will be set to Main Profile and 422Profile, respectively. The level for SD image quality will be Main Level, and the level for HD image quality will be High Level. The profile & level changes according to the format selected in [Chroma Format].

Exporting a File in K2 Clip Format

You can export a project as a K2 Clip format file.

Before performing these steps, you must configure the connection to the K2 Media server you want to use as the export destination.

K2 Server (SAN) Settings ▶ P463

- The following functions are supported as with the normal file export.
 - Generating wave information (waveform representation of audio)
 - Creating Preset Exporters
 - Batch export
- The following exporters support smart rendering:
 - [K2 DV Clip]
 - [K2 DVCPRO HD Clip]
 - [K2 AVCIntra Clip]
 - [K2 D10 Clip]
- The [K2 MPEG2 Clip] exporter supports segment encoding.

- If you have EDIUS XRE, you can have your networked external PC perform a rendering process during file export. Note, however, your EDIUS XRE system PC requires the EDIUS Elite license.

Note

- Files in 1280×720 50p and 1280×720 59.94p formats which have odd number of frames cannot be output.

1 Click [Export] on the Recorder.



2 Click [Print to File].

The [Print to File] dialog box appears.

[Print to File] Dialog Box ▶ P421

Alternative

- Click [File] on the menu bar, and click [Export] → [Print to File].
- Exporting to file: [F11]

3 Click [K2] on the category tree.


4 Select an exporter, and click [Export].

Select an exporter from [K2 DV Clip], [K2 DVCPROHD Clip], [K2 AVCIntra Clip], [K2 D10 Clip], or [K2 MPEG2 Clip]. Exporters that do not support the project settings will not be displayed.

5 Configure the settings such as the clip name or export destination.

K2 Clip Exporter Settings ▶ P477

6 Click [OK].

The icon  indicating that the system is generating a file is displayed on the clips that are being exported in the source browser.

K2 Clip Exporter Settings

Common settings

[Clip Name]	Enter a clip name for the file to be exported.
[Destination]	<p>[Server] Select a file export destination from the list. K2 Server (SAN) Settings ▶ P463</p> <p>[Bin] Displays the list of bins in the save destination you selected in [Server]. Select the bin to register captured clips.</p> <p>[Overwrite file when it exists] Check this item to overwrite a file if any file with the same clip name is already registered in the bin in the export destination.</p>
[Audio settings]	<p>[Channels] Select the number of audio channels you want to export from the list.</p> <p>[Quantization Bit Rate] Select an audio quantization bitrate from the list.</p> <p>[Ch 1&2] - [Ch 15&16] Select the channel to output bitstream when outputting audio with the audio bitstream retained.</p>

Video settings

[Video Setting] is displayed depending on the exporter. The displayed items are the same as the setting items for each codec that is displayed in the [Project Exporter (K2 Program)] dialog box. For more information on the settings for each exporter, refer to the following references.

Exporter	Reference
K2 DV Clip	<i>Video settings — DV</i> ▶ <i>P475</i>
K2 AVCIntra Clip	<i>Video settings — AVCIntra</i> ▶ <i>P476</i>
K2 D10 Clip	<i>Video settings — D10</i> ▶ <i>P475</i>
K2 MPEG2 Clip	<i>Video settings — MPEG2</i> ▶ <i>P476</i>

CHAPTER 13

Appendix

This chapter explains how to manage licenses, and contains a list of effects and keyboard shortcuts.

License Management

Managing Licenses

Start up GV LicenseManager.

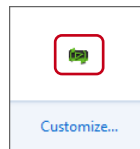
Note

- To use GV LicenseManager, it must be executed in the environment where EDIUS is installed.

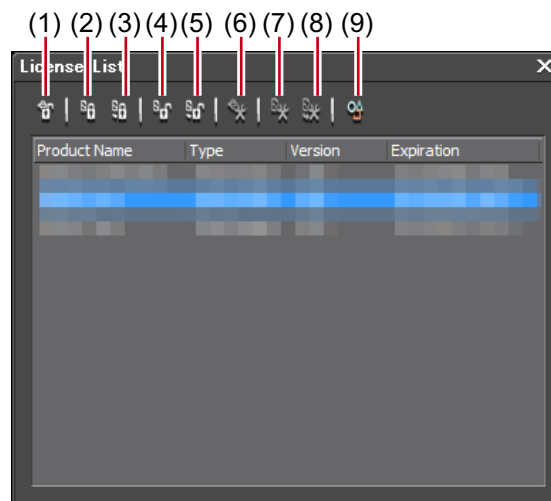
1 Click [Start] to display the start menu, and click [All Programs] → [Grass Valley] → [GV License Manager]. [GV License Manager] will start up.

Alternative

- Right-click the GV LicenseManager icon in the task bar, and click [License List].
- Double-click the GV LicenseManager icon in the task bar.



[License List] Dialog Box



(1)	[Online deactivation]	Return licenses on the EDIUS terminal in the online environment to the activation server. <i>Moving Licenses in the Online Environment</i> ▶ P482
(2)	[Offline Activation Create ID File]	Create an ID file to activate licenses on the EDIUS terminal in the offline environment. <i>License Activation on Move Destination PC</i> ▶ P484
(3)	[Offline Activation Register Activation File]	Register the license activation file acquired from the activation server to the EDIUS terminal in the offline environment. <i>License Activation on Move Destination PC</i> ▶ P484
(4)	[Offline Deactivation Create ID File]	Create an ID file to deactivate licenses on the EDIUS terminal in the offline environment. <i>License Deactivation on the Move Source PC</i> ▶ P482

(5)	[Offline Deactivation Register Activation File]	Register the license deactivation file acquired from the activation server to the EDIUS terminal in the offline environment. <i>License Deactivation on the Move Source PC</i> ▶ P482
(6)	[Online Repair]	Repair licenses on the EDIUS terminal in the online environment. <i>Repairing Licenses in the Online Environment</i> ▶ P484
(7)	[Offline Repair Create ID File]	Create an ID file to repair licenses on the EDIUS terminal in the offline environment. <i>Repairing Licenses in the Offline Environment</i> ▶ P484
(8)	[Offline Repair Register Repair File]	Register the license repair file acquired from the activation server to the EDIUS terminal in the offline environment. <i>Repairing Licenses in the Offline Environment</i> ▶ P484
(9)	[Settings]	Click this button for various settings. <i>[Settings] Dialog Box</i> ▶ P482

[Settings] Dialog Box

[Show License Expiration Warning]	Set the timing to display a warning message for license expiration.
[Administrator Password]	Restrict license activation/deactivation operations to the administrator. Check this item and enter the administrator password.

Moving Licenses in the Online Environment

The following explains how to move licenses between EDIUS terminals in the online environment.

1 Start up GV LicenseManager on the move source EDIUS terminal.

Start up GV LicenseManager. ▶ P481

2 Select products to deactivate licenses in the [License List] dialog box.

3 Click [Online deactivation], and click [Yes].

Access the activation server automatically and deactivate the licenses.

4 Start up EDIUS on the move destination EDIUS terminal.

5 Enter the serial number, and click [Register].

The license authentication is performed.

6 A message appears, and click [OK].

From the next time, perform steps 1 to 3 to move the licenses between the same EDIUS terminals.

Moving Licenses in the Offline Environment

Move licenses between offline EDIUS terminals via another PC in the online environment.

License Deactivation on the Move Source PC

1 Start up GV LicenseManager on the move source EDIUS terminal.

Start up GV LicenseManager. ▶ P481

2 Select products to deactivate licenses in the [License List] dialog box.

3 Click [Offline Deactivation Create ID File].

4 Specify the save destination for the ID file in the [Browse For Folder] dialog box, and click [OK].

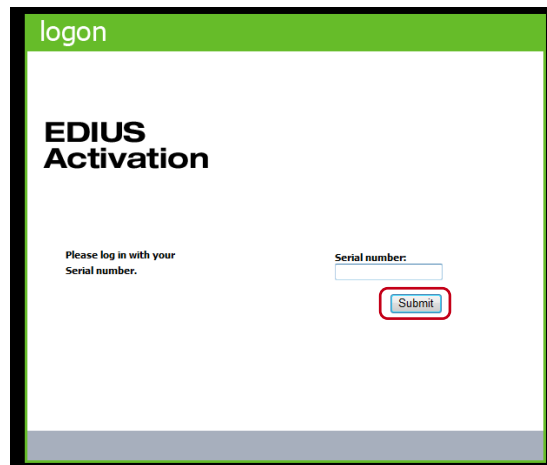
Save the ID file to removable USB storage media, etc.

5 A confirmation message appears, then click [OK].

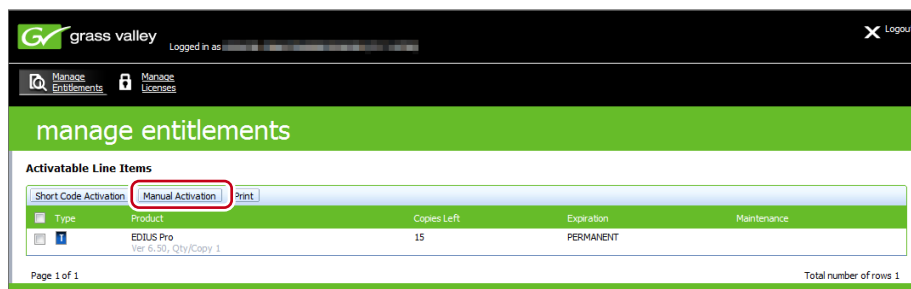
6 Accessing the Activation Server Log-in Screen on the Online PC

To access the activation server log-in screen, double-click the URL shortcut file (GV ActivationServer) created on the same place as the ID file.

7 Enter the serial number on the log-in screen, and click [Submit].



8 Click [Manual Activation].



9 On the [Manual Activation] screen, click [Browse].

10 Select the ID file (ID.key) saved in step 4 and click [Open].

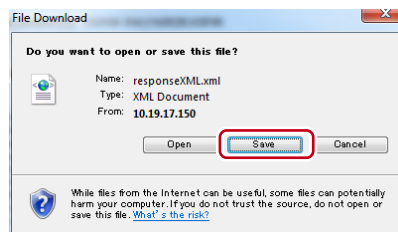
11 On the [Manual Activation] screen, click [Submit].

The activation file is created.

12 Click [Save To File].

13 Click [Save], and specify the save destination for the activation file (XML file).

Save the activation file to removable USB storage media, etc.



14 Click [Offline Deactivation Register Activation File] in the [License List] dialog box on the move source EDIUS terminal.

15 Specify the activation file acquired in step 7, and click [Open].

The licenses are deactivated on the move source PC.

License Activation on Move Destination PC

- 1 Start up EDIUS on the move destination GV LicenseManager terminal.**
Start up GV LicenseManager. ▶ P481
- 2 Click [Offline Activation Create ID File].**
- 3 Enter the serial number, and click [OK].**
- 4 Specify the save destination for the ID file in the [Browse For Folder] dialog box, and click [OK].**
Save the ID file to removable USB storage media, etc.
- 5 A confirmation message appears, then click [OK].**
- 6 Access the activation server on the online PC, and upload the ID file saved in step 4, and then download the activation file.**
For the procedure on the activation server, see steps 6 to 13 in “License Deactivation on the Move Source PC”.
- 7 Click [Offline Activation Register Activation File] in the [License List] dialog box on the move destination EDIUS terminal.**
- 8 Specify the activation file acquired in step 6, and click [Open].**
The licenses are activated on the move destination PC.

Repairing Licenses in the Online Environment

If you cannot start up EDIUS on the license authorized EDIUS terminal, the license information may be corrupted. Try license repair.

- 1 Start up GV LicenseManager on the EDIUS terminal.**
Start up GV LicenseManager. ▶ P481
- 2 Select products to repair licenses in the [License List] dialog box.**
- 3 Click [Online Repair], and click [Yes].**
Access the activation server automatically and repair the licenses.

Repairing Licenses in the Offline Environment

If you cannot start up EDIUS on the license authorized EDIUS terminal, the license information may be corrupted. Try license repair.

Repair licenses on the offline EDIUS terminal via another PC in the online environment.

- 1 Start up GV LicenseManager on the EDIUS terminal.**
Start up GV LicenseManager. ▶ P481
- 2 Select products to deactivate licenses in the [License List] dialog box.**
- 3 Click [Offline Repair Create ID File].**
- 4 Specify the save destination for the ID file in the [Browse For Folder] dialog box, and click [OK].**
Save the ID file to removable USB storage media, etc.
- 5 A confirmation message appears, then click [OK].**
- 6 Access the activation server on the online PC, and upload the ID file saved in step 4, and then download the activation file.**
For the procedure on the activation server, see steps 6 to 13 in “License Deactivation on the Move Source PC”.
- 7 Click [Offline Repair Register Repair File] in the [License List] dialog box on the EDIUS terminal.**
- 8 Specify the activation file acquired in step 6, and click [Open].**
The licenses are repaired on the move source PC.

Effects List



- Hovering the mouse cursor over an effect in the [Effect] palette displays a simple description of the effect.

[Video Filter]

Besides the following effects, frequently used effects, such as video filter for old movies, are registered as system presets.

[Color Correction]

Includes video filters for color adjustment, such as 3-Way color correction and YUV curve.

Adjusting Color/Brightness (Color Correction) ▶ P325

[Anti Flicker]

Reduces screen flicker. Effective for images with little motion.

[Emboss]

Makes a three-dimensional monotone image like a lithograph. You can set the direction and depth of the shadow.

[Old Movie/Film]

Makes an image look like an old film.

[Chrominance]

Specifies a color as the key color, and apply a specific filter to the inside, edge or outside.

[Sharpness]

Sharpens the outline of objects and makes an image look as if it is a higher resolution.

[Stabilizer]

Correct the camera shake by image processing.

[Strobe/Freeze]

Creates an effect like a strobe light flashing.

[Soft Focus]

Applies an effect like a mist that softens the video.

[Select channel]

Switches the output of a clip with alpha channel to key output or fill output.

Alpha Channel ▶ P348

[Tunnel Vision]

Makes an image look like it is in a tunnel. It is effective when used in combination with [Loop Slide].

[Video Noise]

Adds noise.

[Blur]

Makes an image look blurred.

[Blend Filters]

Blends two video filters in any respective proportion. The blend ratio can be set to change along the time axis by setting a key frame.

[Mask]

Applies a video filter to the inside or outside of a given range. Using the pass, the application range can be rectangular, elliptical, or any shape.

[Matrix]

Applies a preferred set matrix to every pixel, to blur or sharpen an image. It is effective when exporting images in MPEG format that have a lot of movement.

[Mirror]

Reverses an image.

[Median]

Balances an image to be smooth to decrease the noise component. Increasing the threshold value gives a paintbrush effect.

[Mosaic]

Applies a mosaic to an image. It is effective when used on parts of an image in combination with [Mask].

[Motion Blur]

Applies the [Blur] effect to moving objects only. This effect can be applied when the whole image moves on the screen such as during a pan or tilt movement.

[Raster Wipe]

Transforms an image to become wavelike.

[Loop Slide]

Slides an image as if it is connected above, below, left or right.

[Block Color]

Displays an image in monochrome. It is effective when used on parts of an image in combination with [Mask].

[Pencil Sketch]

Makes an image look like its outline was traced with a pencil.

[Stereoscopic Adjuster]

Adjusts the stereoscopic image.

[Smooth Blur]

Applies an effect where the focal point seems blurred while suppressing discoloration.

[Combine Filters]

Sets up to 5 filters simultaneously. You can also set multiple filters without using [Combine Filters], though the synergistic effect of multiple filters may not appear if you do not use [Combine Filters]. (For example, when applying multiple filters in an area specified using a [Mask] or [Chrominance] filter.)

[AudioFilters]

Besides the following effects, frequently used effects, such as enhancement for high-pitched sound/low-pitched sound and audio filter for echo, are registered as system presets.

[Graphic Equalizer]

Sets the frequency properties by adjusting the master fader or the fader of each frequency range.

[Delay]

Creates an echo-like effect by repeating the same sound at different levels or with a time difference.

[Tone Controller]

Sets the intensity of low pitch sound and high pitch sound.

[High-pass Filter]

Cuts the frequency region below a set frequency.

[Parametric Equalizer]

Emphasizes or de-emphasizes sound of a certain frequency.

[Panpot Balance]

Maps the audio signal input from channels on the left and right to the left, right or center. The input level and the output balance can also be set for the left and right channels.

[Pitch Shifter]

Adjusts the audio pitch.

[Low-pass Filter]

Cuts the frequency region above a set frequency.

[Transition]



- Click a transition in the [Effect] palette and select an animation to display the animation and confirm its movement.

[2D]

Planar movement transitions. You can also call upon and apply a preset from the settings dialog box of each transition.

[Clock]

Transitions the video with a movement like the hands on a clock.

[Circle]

Transitions the video with an expanding circle.

[Stripes]

Transitions the video in striped parts.

[Stretch]

Transitions while expanding video B.

[Slide]

Transitions by inserting video B from a specified direction.

[Dissolve]

Gradually transitions from video A to video B. This is set as the default transition in the initial settings.

[Blind Slide]

Transitions by inserting video B in stripes from the left and right sides (top and bottom sides).

[Blind Wipe]

Video B is revealed in stripes that slide in from left and right sides (top and bottom sides).

[Block]

Video B is revealed in blocks that snake around video A.

[Blind Push]

Video A is slid out and video B slides into the screen in stripes that move towards the left and right sides.

[PushStretch]

Transitions in a way where video B appears to push video A off the screen.

[Box]

Transitions the video with an expanding rectangle.

[Border Wipe]

Transitions by sliding video B in from a specific direction.

[3D]

Three-dimensional movement transitions. You can also call upon and apply a preset from the settings dialog box of each transition.

[3D Dissolve]

In addition to a normal dissolve, you can set the light, shadow, movement, etc.

[Cube Spin]

A cube with video A and video B displayed on its sides rotates to transition from video A to video B.

[Single Door]

Transitions the video with a door opening movement.

[Sphere]

Video A becomes a sphere and flies away.

[Double Door]

Transitions the video as if a double door opens.

[Two Pages]

Transitions to video B by peeling away video A as if on 2 sheets of paper.

[Peel Away]

Peels away video A as if on 1 sheet of paper.

[Peel Over]

Transitions to video B by peeling away video A as if on 1 sheet of paper with video B on its reverse.

[Four Pages]

Transitions to video B by peeling away video A as if on 4 sheets of paper.

[Fly Away]

Video A flies away to reveal video B.

[Flip Over]

Transitions the video by flipping it over.

[Blinds]

Turns over video A in stripes as if a set of blinds to reveal video B on the reverse.

[Page Peel]

Transitions by peeling over the video.

[GPU]

High quality and complex transitions that use the GPU (Graphics Processing Unit) can be set. A large number of presets are included in the [GPU] effect folder. If you want to set parameters to create a new transition, they can be set and applied from the [Advanced] folder.

The settings dialog box of each transition contains [Design] settings to adjust the direction of movement, angle of incidence of light and the like, and [Time] settings to specify a key frame and adjust movement along the time axis. These settings can be used to apply complex movement and effects.

You can set the antialiasing and image quality when GPUfx is applied, from [Effect] in [System Settings] → [GPUfx].

If [GPU] is not displayed in the [Effect] palette, or if the transitions do not move, confirm the system environment and the error information from [Effect] in [System Settings] → [GPUfx].

[GPUfx] ▶ P87

Clip Transition ▶ P338



- If you have applied an effect in the [Advanced] folder, you may not be able to check the results of an effect with default settings. Either adjust the applied effect or apply a preset.

Checking/Adjusting Effects ▶ P354

[Accordion]

Transitions by folding the video like an accordion.

[Album]

Transitions the video as if folding over a stiff page in a book.

[Extend]

Transitions the video by stretching it.

[Explosion]

Transitions by applying an effect where it looks as if the video has exploded.

[Cube Tube]

Transitions the video by rotating it on a three-dimensional cube.

The effect cannot be checked with default settings. Make sure to change the parameters after applying the effect.

[Clapper Board]

Transitions the video with a movement like a clapper board.

[Sphere]

Transitions the video while turning the video into a sphere.

[Tube]

Transitions the video while turning the video into a pipe shape.

[Twist]

Transitions the video by twisting it.

[Two Pages]

Transitions by peeling the video in 2 directions.

[Transform]

Transitions the video with a variety of freeform transformations.

The effect cannot be checked with default settings. Make sure to change the parameters after applying the effect.

[Door]

Transitions the video with a door opening movement.

[Peel]

Transitions the video by peeling it.

[Folder]

Transitions the video by folding it.

[Four Pages]

Transitions by peeling the video in 4 directions.

[FlyingAway]

Transitions the video by flying it away.

[FlyingIn]

Transitions the video by flying it in.

[Flip Over]

Transitions the video by flipping it over.

[Blind Wave]

Transitions the video by splitting it into tiles/stripes and turning it over.

[Ripple]

Transitions the video while applying a wave-like effect.

[Rotation]

Transitions the video while rotating it.

[Advanced]

Applies a basic movement and configure the settings as you wish.

[SMPTE]

Applies SMPTE standard transitions.

[Alpha]

[Alpha Custom Map]

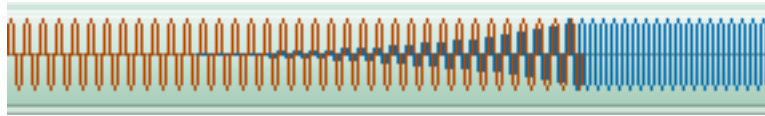
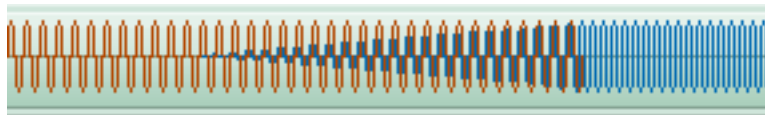
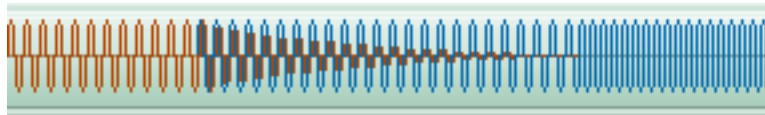
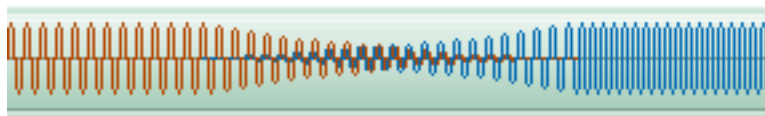
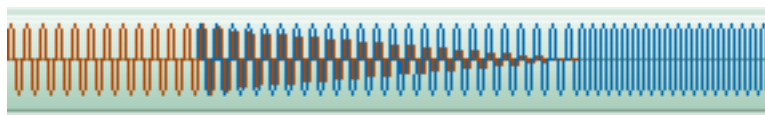
A transition that is like dissolve, except you can apply unevenness to the dissolve or change the direction, rotation, speed, etc.

[AudioCrossFades]

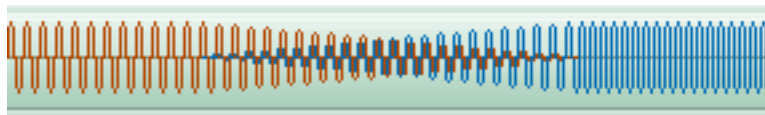
The illustrations represent the change in volume in the area where the audio cross fade has been applied.

[Cut out/in]



[Cut out/Spline in]**[Cut out/Linear in]****[Spline out/Cut in]****[Spline out/in]****[Linear out/Cut in]****[Linear out/in]**

This is set as the default audio cross fade in the initial settings.

**[TitleMixers]**

Applies changes to how a title appears or disappears. Different effects can be applied to the In side and the Out side. Parameters can only be changed for [Soft Slide] and [Soft Wipe].

[Slide A]

The title enters the screen from outside the screen, and exists the screen in the selected direction.

[Slide B]

The title slides within a rectangle in the selected direction. The rectangle includes all text frames and other objects placed when creating the title.

[Soft Slide]

The title enters the screen from outside the screen in the selected direction, sliding up to a rectangular range. The borders are blurred during In and Out.

[Soft Wipe]

The title appears during a wipe in the selected direction. The wipe borders are blurred.

[Fade Slide A]

Slide A is moved while dissolving.

[Fade Slide B]

Slide B is moved while dissolving.

[Laser]

The title appears as if projected by a laser. The opposite movement is performed during Out.

[Wipe]

The title appears during a wipe in the selected direction.

[Wipe Vertical]

The title appears during a wipe in a vertical direction.

[Wipe Horizontal]

The title appears during a wipe in a horizontal direction.

[Fade]

The same as the dissolve effect. This is set as the default title mixer in the initial settings.

[Blur]

The title dissolves while becoming blurred.

[Keyers]

Blends multiple videos on top of one another.





[Blend]

Blends 2 videos on top of each other. Video A is the 1VA video and video B is 2VA, where video B is blended on top of video A.

The left images are an example of blending the red gradation as video A (background) and the red gradation as video B (foreground).

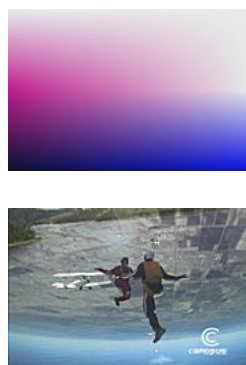
The right images are an example of blending the skydiving image as video A (background) and the image of the airplane flying above a lake as video B (foreground).

Original images

<p>Video B (foreground) Key application side</p>	 
<p>Video A (background)</p>	 

[Overlay]

The blending creates a darker area where the background is dark due to a multiplying effect, and a brighter area where the background is light due to a screening effect.



[Screen]

Since the pixels are negated, multiplied then negated again, the image becomes brighter.





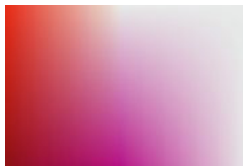
[Soft Light]

Applies a multiplication and screening effect, making the background darker where the foreground is dark, and the background lighter where the foreground is light.



[Hard Light]

Blending of where the foreground is dark makes the image darker due to a multiplying effect, and blending of where the foreground is light makes the image lighter due to a screening effect.



[Vivid Light]

Blending of where the foreground is light lowers the contrast and makes the image lighter, and blending of where the foreground is dark increases the contrast and makes the image darker.



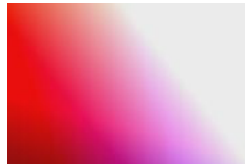
[Pin Light]

Replaces parts that are light in the foreground with a darker part, and replaces parts that are dark in the foreground with lighter parts.



[Linear Light]

Increases the brightness of parts that are bright in the foreground, and lowers the brightness of parts that are dark in the foreground.



[Multiply]

Multiplies the colors and so makes the image darker.



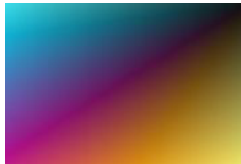
[Addition]

Adds the colors and so makes the image brighter.



[Difference]

Displays colors that have been converted into an absolute value from the difference between the background and foreground.



[Lighter]

Compares the background and foreground, and displays the brighter color.



[Darker]

Compares the background and foreground, and displays the darker color.





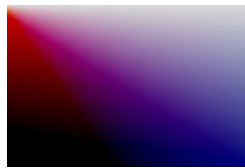
[Subtract]

Subtracts the foreground from the background so parts of the foreground that are bright become dark.



[Color Burn]

Leaves the background color as it is and darkens parts that are superimposed.



[Color Dodge]

Leaves the background color as it is and brightens parts that are superimposed.



[Exclusion]

Displays colors that have been converted to an exclusive OR for the background and foreground.



[Chromakey]

Displays the lower video through a specific color.

Key ▶ P342

[Track Matte]

Produces an alpha channel according to the luminance of the lower image, which is multiplied to the alpha channel of the clip to which track matte is applied.

[Track Matte] ▶ P350

[Luminancekey]

Displays the lower video through a specific brightness.

Key ▶ P342

Keyboard Shortcuts

Keyboard shortcuts are listed by operation category.

[Edit]

Operation	Shortcut key
[Copy]	[Ctrl] + [Insert] [Ctrl] + [C]
[Cut (Follow Mode)]	[Shift] + [Delete] [Ctrl] + [X]
[Paste Transition (In Point)]	[Shift] + [Alt] + [K]
[Paste Transition (Out Point)]	[Alt] + [K]
[Paste Transition]	[Ctrl] + [Alt] + [K]
[Paste to Current Location]	[Ctrl] + [V] [Shift] + [Insert]
[Ripple Cut]	[Alt] + [X]
[Redo]	[Ctrl] + [Y] [Shift] + [Ctrl] + [Z]
[Undo]	[Ctrl] + [Z]
[Insert Copied Clip to Timeline]	[Shift] + []
[Insert to Timeline]	[]
[Overwrite Copied Clip to Timeline]	[Shift] + []
[Overwrite to Timeline]	[]

[View]

Operation	Shortcut key
[Scroll Up]	[Shift] + [Ctrl] + [Page up]
[Scroll Down]	[Shift] + [Ctrl] + [Page down]
[Scroll Right]	[Ctrl] + [Page down]
[Scroll Left]	[Ctrl] + [Page up]
[Toggle Bin Window Display]	[B]
[Toggle Status]	[Ctrl] + [G]
[Display Thumbnail]	[Alt] + [H]
[Toggle Center (Line Display)]	[Shift] + [H]
[Display safe area]	[Ctrl] + [H]
[Toggle Palette Display]	[H]
[Layout Normal]	[Shift] + [Alt] + [L]
[Focus Menu]	[Shift] + [F1]
[Toggle Batch Capture List On/Off]	[F10]
[Help]*	[F1]

* The "Help" keyboard shortcut cannot be customized.

[Timeline]

Operation	Shortcut key
[Delete Gap]	[Backspace] [Shift] + [Alt] + [S]
[Switch to Previous Sequence]	[Shift] + [Ctrl] + [Tab]
[Switch to Next Sequence]	[Ctrl] + [Tab]
[Move Cursor to End of Timeline]	[End]
[Move to Start]	[Home]
[Move to Previous Edit Point]	[Ctrl] + [←] [A]
[Next Edit Point]	[Ctrl] + [→] [S]
[Change Time Scale (Fit)]	[Ctrl] + [0]
[Change Time Scale (1 frame)]	[Ctrl] + [1]
[Change Time Scale (5 frame)]	[Ctrl] + [2]
[Change Time Scale (1 sec)]	[Ctrl] + [3]
[Change Time Scale (5 sec)]	[Ctrl] + [4]
[Change Time Scale (15 sec)]	[Ctrl] + [5]
[Change Time Scale (1 min)]	[Ctrl] + [6]
[Change Time Scale (5 min)]	[Ctrl] + [7]
[Change Time Scale (15 min)]	[Ctrl] + [8]
[Change Time Scale (1 hour)]	[Ctrl] + [9]
[Ripple Delete (Between In/Out)]	[Alt] + [D]
[Delete (Between In/Out) - Follow Mode]	[D]
[Display Source Clip]	[Alt] + [F]
[Search Bin for Clips that Contains Current Source Timecode]	[Shift] + [Ctrl] + [F]
[Search Bin for Clips that Contain Current Source Timecode from Timeline Clip]	[Shift] + [F]
[Match Frame (Recorder to Source)]	[F]
[Create New Sequence]	[Shift] + [Ctrl] + [N]
[New Project]	[Ctrl] + [N]
[Open Project (Monitor/Timeline)]	[Ctrl] + [O]
[Save Project]	[Ctrl] + [S]
[Save As]	[Shift] + [Ctrl] + [S]
[Create a Still Image]	[Ctrl] + [T]
[Change Time Scale (Undo)]	[Ctrl] + [U]
[Edit Transition (In)]	[Shift] + [Alt] + [U]
[Edit Transition (Out)]	[Ctrl] + [Alt] + [U]
[Initialize Rubber Band Setting]	[Shift] + [Ctrl] + [U]
[Move All Rubber Band Points on Scale]	[Shift] + [Alt] + [Y]
[Zoom In Time Scale]	[Ctrl] + [Num +]

Operation	Shortcut key
[Zoom Out Time Scale]	[Ctrl] + [Num -]
[Nudge (-10 frames)]	[Shift] + [Ctrl] + [,]
[Nudge (-1 frame)]	[Ctrl] + [,]
[Nudge (+10 frames)]	[Shift] + [Ctrl] + [.]
[Nudge (+1 frame)]	[Ctrl] + [.]
[Play the Event Area]	[/]

[Preview]

Operation	Shortcut key
[Toggle Player/Recorder]	[Tab]
[Playback (With Buffer)]	[Shift] + [Space] [Shift] + [Enter]
[Play/Stop]	[Space] [Enter]
[Loop Playback]	[Ctrl] + [Space]
[1 Frame Back]	[←]
[Back (10 frames)]	[Shift] + [←]
[1 Frame Forward]	[→]
[Forward (10 frames)]	[Shift] + [→]
[Pause]	[Shift] + [↓] [Ctrl] + [K] [K]
[Add Clip to Timeline]	[E]
[Jog (Rewind)]	[Ctrl] + [J]
[Review]	[J]
[Jog (Forward)]	[Ctrl] + [L]
[Cue]	[L]
[Change to Player]	[Ctrl] + [Alt] + [P]
[Change to Recorder]	[Ctrl] + [Alt] + [R]
[TC Jump (+)]	[Num +]
[TC Jump (-)]	[Num -]
[Play the Cursor Area]	[Ctrl] + [/]

[Preview - Player]

Operation	Shortcut key
[Add Clip on Player to Bin]	[Shift] + [Ctrl] + [B]
[Match Frame (Player to Recorder)]	[Ctrl] + [F]

[Preview - Recorder]

Operation	Shortcut key
[Add Clip to Timeline]	[Shift] + [Ctrl] + [O]
[Print to DVD/BD]	[Shift] + [F11]
[Print to File]	[F11]
[Print to Tape]	[F12]

[Trim]

Operation	Shortcut key
[Move to Previous Edit Point (Trim)]	[Page up]
[Move to Next Edit Point (Trim)]	[Page down]
[Split Slide Trim (In Point)]	[Shift] + [Ctrl] + [Alt] + [N]
[Split Slide Trim (Out Point)]	[Shift] + [Ctrl] + [Alt] + [M]
[Split Trim (In Point)]	[Shift] + [N]
[Split Trim (Out Point)]	[Shift] + [M]
[Split Ripple Trim (In Point)]	[Shift] + [Alt] + [N]
[Split Ripple Trim (Out Point)]	[Shift] + [Alt] + [M]
[Slide Trim (In Point)]	[Ctrl] + [Alt] + [N]
[Slide Trim (Out Point)]	[Ctrl] + [Alt] + [M]
[Trim (In Point)]	[N]
[Trim (Out Point)]	[M]
[Ripple Trim (In Point)]	[Alt] + [N]
[Ripple Trim (Out Point)]	[Alt] + [M]
[Trim (-1 frame)]	[,]
[Trim (-10 frames)]	[Shift] + [,]
[Trim (1 frame)]	[.]
[Trim (10 frames)]	[Shift] + [.]

[Clip]

Operation	Shortcut key
[Clip Properties]	[Alt] + [Enter]
[Enable/Disable Clip]	[0]
[Remove cut points]	[Ctrl] + [Delete]
[Set Transition (1 sec)]	[Alt] + [1]
[Set Transition (2 sec)]	[Alt] + [2]
[Set Transition (3 sec)]	[Alt] + [3]
[Set Transition (4 sec)]	[Alt] + [4]
[Set Transition (5 sec)]	[Alt] + [5]

Operation	Shortcut key
[Add to Bin]	[Shift] + [B]
[Add Cut Point (In/Out) - All Tracks]	[Shift] + [Alt] + [C]
[Add Cut Point (In/Out) - Selected Tracks]	[Alt] + [C]
[Add Cut Point (All Tracks)]	[Shift] + [C]
[Add Cut Point (Selected Tracks)]	[C]
[Time Remap]	[Shift] + [Alt] + [E]
[Speed]	[Alt] + [E]
[Edit of Clip]	[Shift] + [Ctrl] + [E]
[Ungroup]	[Alt] + [G]
[Set Group]	[G]
[Initialize Volume Settings on Audio Rubber Band]	[Shift] + [Alt] + [H]
[Open the Original File of a Clip]	[Shift] + [Ctrl] + [P]
[Set Transition (In Point)]	[Shift] + [Alt] + [P]
[Set Transition (Out Point)]	[Alt] + [P]
[Set Default Transition]	[Ctrl] + [P]
[Replace Clip (All)]	[Ctrl] + [R]
[Replace Clip Only]	[Shift] + [R]
[Replace Clip and Filter]	[Shift] + [Alt] + [R]
[Replace Filter on Selected Clip]	[Alt] + [R]
[Replace Mixer on Selected Clip]	[Shift] + [Ctrl] + [R]
[Create Title in Video Channel Track]	[T]
[Duration]	[Alt] + [U]
[V Mute]	[Shift] + [V]
[Unlink Clip]	[Alt] + [Y]
[Link]	[Y]
[Display in Player]	[Shift] + [Y]
[Layouter]	[F7]

[Clip - Delete]

Operation	Shortcut key
[Ripple delete]	[Alt] + [Delete]
[Delete (Follow Mode)]	[Delete]
[Delete Audio of Selected Clip (Follow Mode)]	[Alt] + [A]
[Delete Video of Selected Clip (Follow Mode)]	[Alt] + [V]
[Delete All Filters on Selected Clip]	[Shift] + [Ctrl] + [Alt] + [F]
[Delete Audio Filter on Selected Clip]	[Ctrl] + [Alt] + [F]
[Delete Video Filter on Selected Clip]	[Shift] + [Alt] + [F]
[Delete Key on Selected Mixer Track]	[Ctrl] + [Alt] + [G]
[Delete Transparency on Selected Mixer Track]	[Shift] + [Ctrl] + [Alt] + [G]

Operation	Shortcut key
[Delete Pan Settings on Audio Rubber Band]	[Ctrl] + [Alt] + [H]
[Delete Transitions for All Selected Clips]	[Alt] + [T]
[Delete Clip Crossfade]	[Ctrl] + [Alt] + [T]
[Delete Clip Transition]	[Shift] + [Alt] + [T]

[Clip - Select]

Operation	Shortcut key
[Clear Focus]	[Shift] + [Esc]
[Add Focus]	[Alt] + [Space]
[Toggle Focus]	[Shift] + [Ctrl] + [Alt] + [Space]
[Select a Clip to Forward]	[Alt] + [Page up]
[Select a Clip to Back]	[Alt] + [Page down]
[Select From the Timeline Cursor to End (All Tracks)]	[Shift] + [End]
[Select From the Timeline Cursor to End (Selected Tracks)]	[Ctrl] + [End]
[Select Timeline Start to the Cursor (All Tracks)]	[Shift] + [Home]
[Select From Timeline Start to the Cursor (Selected Tracks)]	[Ctrl] + [Home]
[Toggle Focus to Left]	[Ctrl] + [Alt] + [←]
[Move Focus to Left]	[Shift] + [Ctrl] + [Alt] + [←]
[Add Focus to Left]	[Shift] + [Alt] + [←]
[Move Focus to Left]	[Alt] + [←]
[Toggle Focus to Up]	[Ctrl] + [Alt] + [↑]
[Move Focus to Up]	[Shift] + [Ctrl] + [Alt] + [↑]
[Add Focus to Up]	[Shift] + [Alt] + [↑]
[Move Focus to Up]	[Alt] + [↑]
[Toggle Focus to Right]	[Ctrl] + [Alt] + [→]
[Move Focus to Right]	[Shift] + [Ctrl] + [Alt] + [→]
[Add Focus to Right]	[Shift] + [Alt] + [→]
[Move Focus to Right]	[Alt] + [→]
[Toggle Focus to Down]	[Ctrl] + [Alt] + [↓]
[Move Focus to Down]	[Shift] + [Ctrl] + [Alt] + [↓]
[Add Focus to Down]	[Shift] + [Alt] + [↓]
[Move Focus to Down]	[Alt] + [↓]
[Select All Clips (All Tracks)]	[Shift] + [A]
[Select All Clips (Selected Tracks)]	[Ctrl] + [A]

[Track]

Operation	Shortcut key
[Track Height (High)]	[Ctrl] + [↑]

Operation	Shortcut key
[Track Height (Low)]	[Ctrl] + [↓]
[Move Track Patch (Up)]	[↑]
[Move Track Patch (Down)]	[↓]
[Connect Source Channel (All) - Toggle]	[Shift] + [Ctrl] + [Delete]
[Sync-Lock Track (All) - Toggle]	[Shift] + [Ctrl] + [Alt] + [0] [Shift] + [Alt] + [0]
[Select Track (All Audio Tracks) - Toggle]	[Shift] + [Ctrl] + [0] [Shift] + [0]
[Sync-Lock Track (1A) - Toggle] - [Sync-Lock Track (8A) - Toggle]	[Shift] + [Alt] + [1] - [8]
[Sync-Lock Track (1VA/V) - Toggle] - [Sync-Lock Track (8VA/V) - Toggle]	[Shift] + [Ctrl] + [Alt] + [1] - [8]
[Connect Source Channel (A1) - Toggle] - [Connect Source Channel (A8) - Toggle]	[1] - [4]
[Connect Source Channel (A12) - Toggle]	[5]
[Connect Source Channel (A34) - Toggle]	[6]
[Select Track (1A) - Toggle] - [Select Track (8A) - Toggle]	[Shift] + [1] - [8]
[Select Track (8VA/V) - Toggle]	[Shift] + [Ctrl] + [1] - [8]
[Sync-Lock Track (Audio) - Toggle]	[Shift] + [Alt] + [9]
[Sync-Lock Track (Video) - Toggle]	[Shift] + [Ctrl] + [Alt] + [9]
[Connect Source Channel (Audio) - Toggle]	[Shift] + [K] [8]
[Select Track (All Audio Tracks) - Toggle]	[Shift] + [9]
[Select Track (All VA/V Tracks) - Toggle]	[Shift] + [Ctrl] + [9]
[Connect Source Channel (Video) - Toggle]	[Shift] + [J] [7]
[Toggle Lock (Selected Tracks)]	[Alt] + [L]
[Audio Mute]	[Shift] + [S]
[Video Mute]	[Shift] + [W]
[Extend Audio Track Display]	[Alt] + [S]
[Extend Mixer Track Display]	[Alt] + [W]
[Toggle Waveform]	[Ctrl] + [W]

[Marker]

Operation	Shortcut key
[Move Cursor to Previous Sequence Marker]	[Shift] + [Page up]
[Move Cursor to Next Sequence Marker]	[Shift] + [Page down]
[Clear In Point]	[Alt] + [I]
[Set In Point]	[I]
[Go to In Point]	[Shift] + [I] [Q]
[Clear Out Point]	[Alt] + [O]
[Set Out Point]	[O]

Operation	Shortcut key
[Go to Out Point]	[Shift] + [O] [W]
[Set Audio Out Point]	[P]
[Go to Audio Out Point]	[Shift] + [P]
[Set Audio In Point]	[U]
[Go to Audio In Point]	[Shift] + [U]
[Shift Cut Point to Cursor (Transition)]	[Shift] + [Ctrl] + [T]
[Clear All Markers]	[Shift] + [Alt] + [V]
[Set Marker]	[V]
[Clear In/Out Point]	[X]
[Set In/Out Point on Current Clip]	[Shift] + [Z]
[Set In/Out Point to Focused Area]	[Z]

[Mode]

Operation	Shortcut key
[Toggle Insert/Overwrite Mode]	[Insert]
[Set Group/Link Mode]	[Shift] + [L]
[Set Ripple Mode]	[R]
[Switch to Normal Mode]	[F5]
[Switch to Trim Mode]	[F6]

[Mode - Multicam]

Operation	Shortcut key
[Multicam]	[F8]

[Capture]

Operation	Shortcut key
[Capture]	[F9]
[Add to Batch Capture List]	[Ctrl] + [B]
[Input Preset 1]	[F2]
[Input preset 2]	[F3]
[Input Preset 3]	[F4]

[Render]

Operation	Shortcut key
[Render]	[Shift] + [G]

Operation	Shortcut key
[Render In/Out (Render Loaded Area)]	[Ctrl] + [Alt] + [Q]
[Render In/Out (All)]	[Shift] + [Alt] + [Q]
[Render In/Out (Render Overload Area)]	[Ctrl] + [Q]
[Render and Add to Timeline (Between In/Out)]	[Shift] + [Q]
[Delete Temp Files]	[Alt] + [Q]
[Render All (Render Loaded Area)]	[Shift] + [Ctrl] + [Alt] + [Q]
[Render All (Render Overload Area)]	[Shift] + [Ctrl] + [Q]