



Software for Playing, Merging and Saving Movies

EOS MOVIE Utility for EOS-1D C




Ver. 1.0

Instruction Manual

● Content of this Instruction Manual

- EMU is used for EOS MOVIE Utility for EOS-1D C.
- In this manual, the windows used in the examples are from Windows 7.
- ▶ indicates the selection procedure of the menu. (Example: [File] menu ▶ [Exit].)
- Square brackets are used to indicate items such as menu names, button names and window names that appear on the computer screen.
- Text inside < > indicates a key on the keyboard.
- ** indicates a reference page. Click to move to the relevant page.
-  : Marks information that should be read before use.
-  : Marks additional information you may find helpful.

● Switching Between Pages

- Click on arrows on the bottom right of the screen.
 -  : next page
 -  : previous page
 -  : return to a page you had previously displayed
- Click on the headings on the right side of the screen to switch to the contents page of that heading. Also, click the item you want to read about on the table of contents to move to the relevant page.

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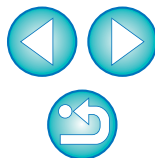
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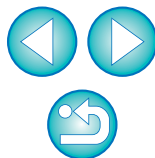
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Introduction

EOS MOVIE Utility for EOS-1D C (hereinafter, “EMU”) is software for playing, merging and saving movies shot on a CINEMA EOS camera EOS-1D C.

● Main Features of EMU

With EMU, you can play movie files shot with an EOS-1D C smoothly. You can also use View Assist for playing movies shot with Canon Log gamma. In addition, you can consecutively play back multiple 4 GB movie files created from one clip (a successive shooting), merge them into a single file, and save it. Extracting still photo (TIFF uncompressed 8-bit RGB format) is also possible.

● What is Canon Log gamma?

This function allows rich gradation expression from dark points to bright points, applying a wide dynamic range. It maximizes the excellent capability of CMOS sensor.

● What is a movie clip?

A movie recorded in a single shooting operation is called a movie clip.

⚠ With this software, you cannot play back movies shot on a camera other than the EOS-1D C.

System Requirements

OS	Windows 7 SP1 (32 bit/64 bit)
Computer	PC with the above OS preinstalled (Upgraded machines not supported)
CPU	Intel Xeon X5690 (6 core) 3.47 GHz x 2 equivalent or higher recommended For operation with Core i3/i5/i7 or Xeon. Operation not supported for Pentium, Celeron, Core Solo, Core Duo, Core 2, or Atom.
Graphics board	For output to a 4K PC monitor, NVIDIA QUADRO 4000/5000/6000 required
RAM	Minimum 4 GB
Display	XGA (1024 x 768 pixels) or more
Display font size setting	96 dpi

- When editing 4K movies with this software, using CF cards and CF card readers with the following specifications is recommended.
 - CF card: Supporting UDMA 7, 100 MB/sec. or higher effective writing/reading speed
 - CF card reader: USB 3.0 connection, supporting UDMA 7, 100 MB/sec. or higher effective reading speedFor information related to operation verification of CF cards and CF card readers, refer to Canon Web site, etc.
- Refer to the Canon Web site for support information including the latest OS.

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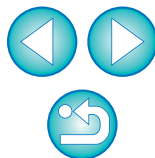
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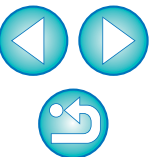
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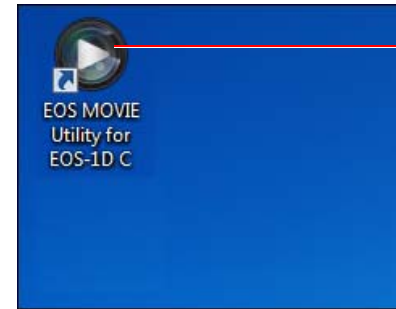
Installing the Software

⚠ When installing this software, an administrator-level privilege is required.

- 1 Double-click the compressed EMU file (.zip format) downloaded from the Canon Web site to open it.
- 2 Double-click "emuw100.exe" in the folder.
- 3 Follow onscreen instructions for installation.

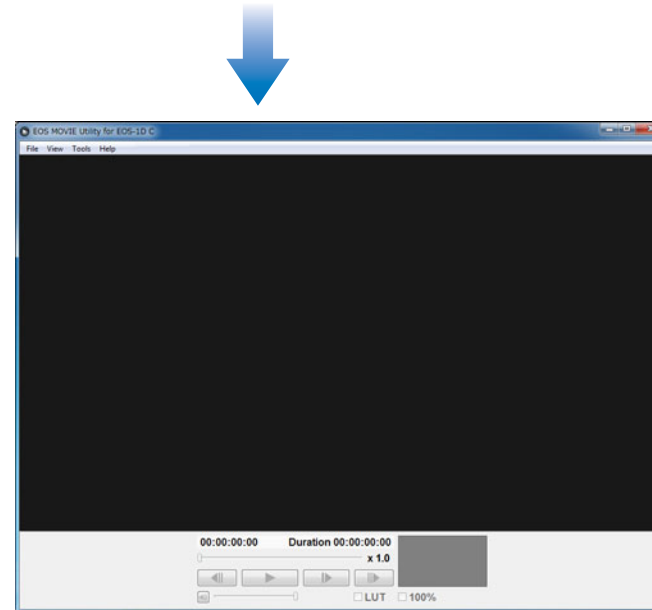
Starting up EMU

Double-click the desktop shortcut.



Double-click

→ EMU starts up and the main window appears.



- Starting up several EMU at the same time is not possible.
- If the screen's font size is set to other than 96dpi, characters in dialog boxes or buttons may not be correctly displayed.

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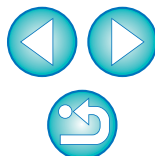
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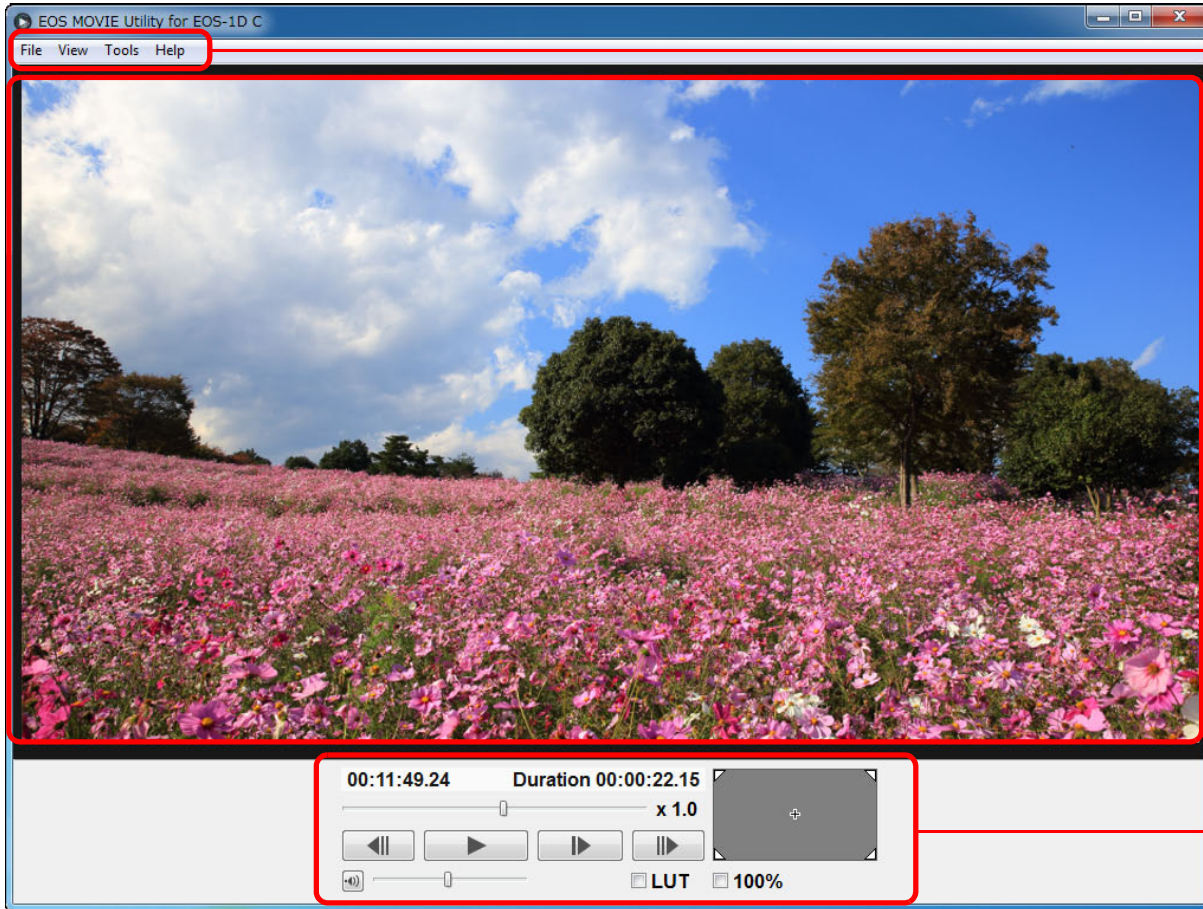
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Basic Screen

Main Window

You can view, play back or stop movie clips in the main window.



Menu

Menu to execute all functions.

Preview area

Displays a clip to be played back.

Playback control area

Controls playback operations.

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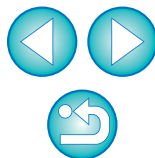
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Playing Back a Movie Clip

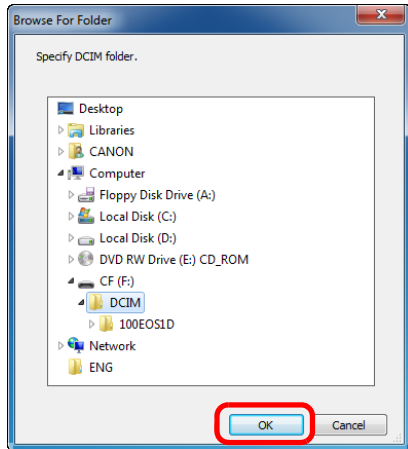
The method for playing back a movie clip is described here. It is recommended that you first copy the folder on the memory card in which the movie clips are saved to your computer using a card reader.

Movie Clip Playback

1 In the main window, select the [File] menu ► [Select a clip folder].

→ The [Browse For Folder] dialog box appears.

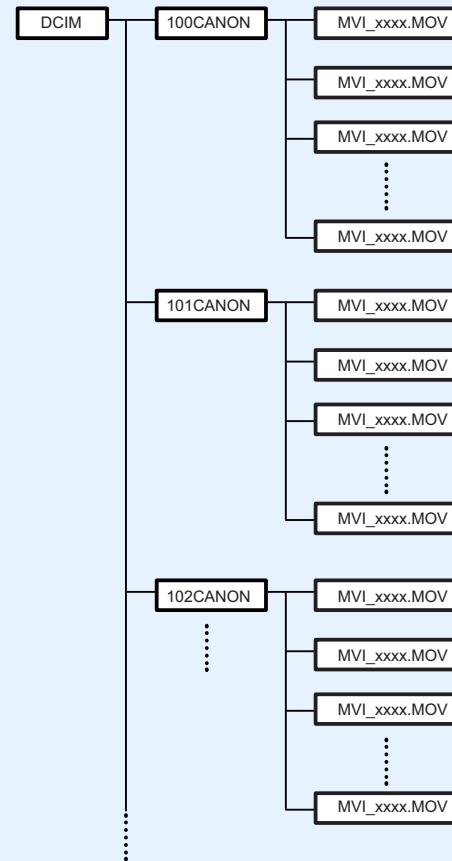
2 Select the folder where the movie clip to play is saved, and then click the [OK] button.



→ The [Clip list] dialog box appears.

- You can also select folders on the memory card directly by inserting the memory card in the card reader and then connect it to the computer.
- You cannot directly select folders on the camera's memory card by connecting the camera to the computer.

! Movie files shot on a camera are recorded on the memory card with the folder structure shown below.



With this software, if the above folder structure is not maintained, it may not be possible to play back the movie clips properly. When playing back movie clips, make sure the above folder structure is maintained and the DCIM folder at the upper layer of the folder structure is selected. Even when the folder structure is maintained, be aware that it may not be possible to play back the clips properly if the name of the selected folder, originally [DCIM], has been changed to another name.

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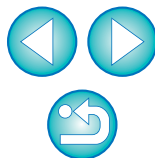
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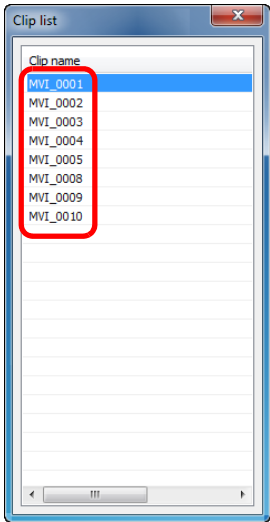
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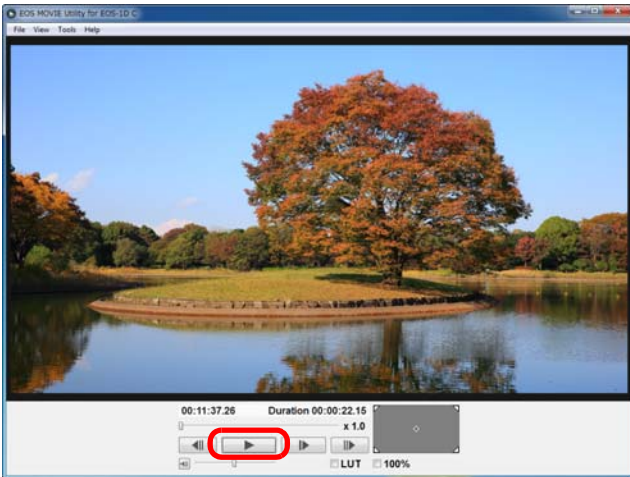


3 Select the movie clip to be played back in the [Clip list] dialog box.



→ The image of the movie clip appears in the main window.

4 In the main window, click the [▶] button.

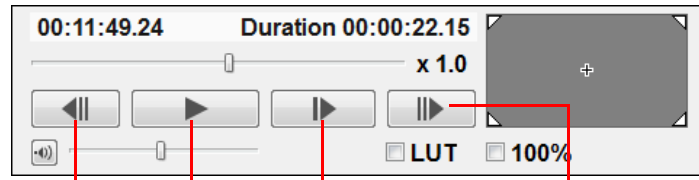


→ The movie clip is played.

- For operations during playback, see “Playback Control” on the right of this page, and [p.8](#) to [p.10](#) (“Adjusting Volume” to “Switching the Movie Display Size”).

Playback Control

During playback, buttons allow you to perform the following operations.



Previous frame Play/Stop Adjust playback speed Next frame frame

- In the [Clip list] dialog box, you can switch between movie clips with the <↑><↓> keys on the keyboard or by clicking the mouse.
- You can also double-click a movie clip name in the [Clip list] dialog box to play back a movie clip.
- Even if you close the [Clip list] dialog box, the content of the list is saved. If you select [Clip list] from the [View] menu, the [Clip list] reappears.

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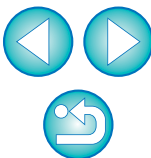
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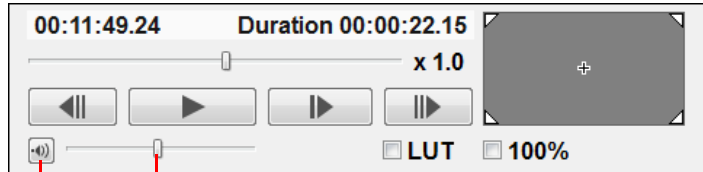
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Adjusting Volume


You can adjust volume during playback with the volume slider.

Drag the volume slider left or right.



Volume slider

Mute button

- To temporarily turn audio off, click the [] (mute) button.

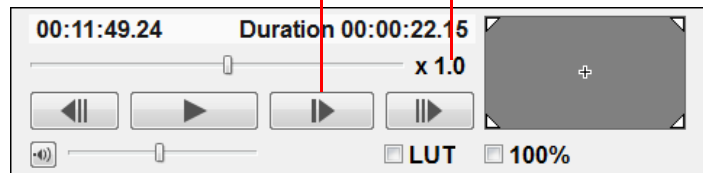
Changing the Playback Speed

You can change the movie playback speed.

Click the [] button while a movie is played.

Playback speed
adjustment button


Current
playback speed



- Each time you click the [] button, the playback speed changes as follows.

Movie clip frame rate	Playback speed	Frame rate after changing playback speed
59.94p	x1.0	59.94p
	x0.5	29.97p
	x0.4	23.98p
50p	x1.0	50p
	x0.5	25p
Other than above*	x1.0	Movie clip frame rate

* You cannot click the playback speed adjustment button.

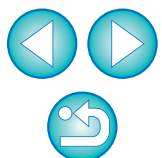
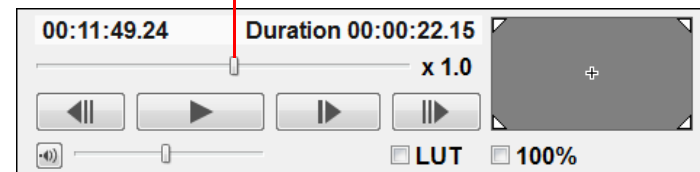
 Audio is not played during slow playback (when playback speed is x0.5 or x0.4).

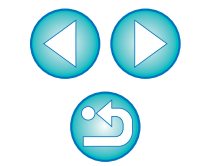
Moving the Playback Position

You can move the playback position with the frame position slider.

Drag the frame position slider left or right while a clip is played or stopped.

Frame position slider

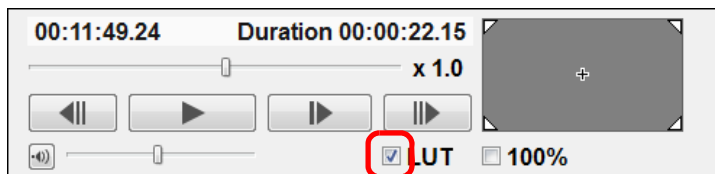




Playing Back a Movie Shot with Canon Log Gamma

If you play back a movie that was shot with Canon Log gamma (p.2) as it is, image will look dark and with a low contrast. If you apply a look-up table (LUT) and play back the clip, you can check the clip with an image close to normal display.

1 Checkmark the [LUT] checkbox.



- If the movie was shot without Canon Log gamma, you cannot checkmark the [LUT] checkbox.

2 Play the selected movie.

- Perform the operations described in "Movie Clip Playback" (p.6).
- The LUT is applied and the movie is played.

- You can check or uncheck the LUT checkbox with the key on the board.
- For movies shot with Canon Log gamma, [On] is displayed for the [Canon Log] item in the shooting information (p.11).

Playing Back in Full Screen

1 Play back a movie.

- Follow operations in "Movie Clip Playback" (p.6).

2 In the main window, select the [View] menu ► [Full Screen].

- The movie played back is displayed in full screen.
- You can also double-click the preview image to display the movie in full screen.
- To cancel full screen display, press the <Esc> key or double-click the preview image.

Operations Using Keyboard

You can use the keyboard for the following operations.

Keyboard	Operation
<Space>	Play/Stop
<←>	Previous frame
<→>	Next frame
<Home>	Move to first frame
<End>	Move to last frame
	Enable/disable look-up table (LUT)
<L>	Play
<K>	Stop
<S>	Adjust playback speed
<V>	Switch display mode ([100% view]/[Fit to window])

Switching the Movie Display Size

You can apply either of [Fit to window] mode and [100% view] mode as a method for displaying a movie in the preview area.

Select the [View] menu ► [Fit to window]/[100% view].

→ The image is displayed in the preview area with the selected display mode.

[Fit to window] mode

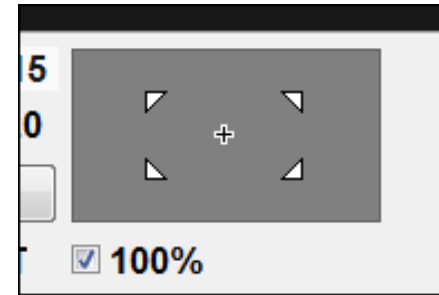


[100% view] mode



- In [Fit to window] mode, the image is displayed completely within the preview area.
- In [100% view] mode, the image is enlarged to 100% (actual pixel size) and displayed in the preview area.
- Checkmark the [100%] checkbox in the playback control area to view in [100% view] mode. Remove the checkmark from the [100%] checkbox to view in [Fit to window] mode.
- To change the display position of an image in [100% view] mode, drag the image in the preview area.

Enlarged position in guide area



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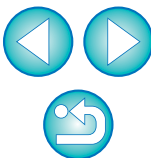
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Confirming the Movie File Information

You can display and confirm shooting information for movie clips.

1 In the main window, select the [View] menu ► [Clip list].

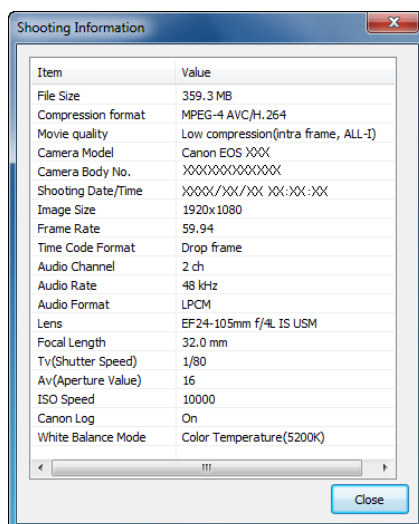
→ The [Clip list] dialog box appears.

- Note that this function is available after you select a folder in which the movie files to be confirmed are saved. If no folder is selected, follow steps 1 to 2 in “Movie Clip Playback” (p.6) to select a folder.

2 In the [Clip list] dialog box, select a movie clip to display its shooting information.

3 In the main window, select the [View] menu ► [Shooting Information].

→ The shooting information is displayed in the [Shooting Information] window.



Saving as a Still Photo

You can save an image from a currently displayed movie clip as a still photo.

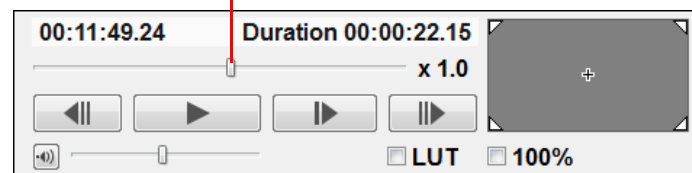
1 In the main window, select the [View] menu ► [Clip list].

→ The [Clip list] dialog box appears.

2 Select a movie clip in the [Clip list] dialog box.

3 Drag the frame position slider right or left and display the image you want to save.

Frame position slider



4 Select the [File] menu ► [Save as still images].

→ The [Save As] dialog box appears.

- You cannot select [Save as still images] during movie playback. Stop movie playback first.

5 Select a save destination, enter a file name and click the [Save] button.

- For movies shot with Canon Log gamma, checkmark the [LUT] checkbox to save still photos with LUT applied.
- Still photos are saved in TIFF uncompressed 8-bit RGB format.

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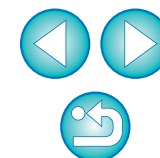
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Merging and Saving Movie Files

When you shoot movies with the EOS-1D C, the movie file will be split by 4 GB and multiple movie files will be created automatically, even for the single shooting. You can merge these multiple files and save them as a single file with this function.

Checking the Movie Files in a Movie Clip

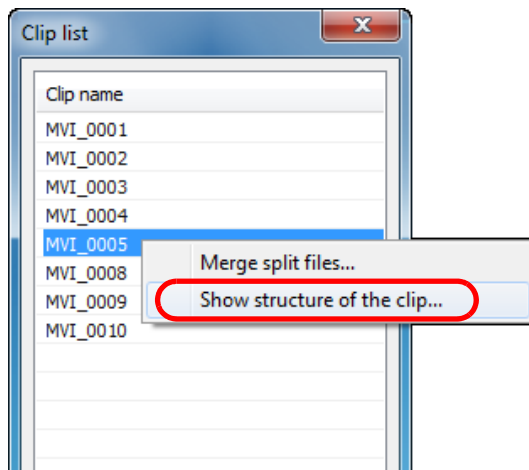
In EMU, the split movie files will be displayed as a single movie clip. You can check the structure of a movie clip and see the movie files that consist the movie clip in the procedures as below.

1 In the main window, select the [View] menu ► [Clip list].

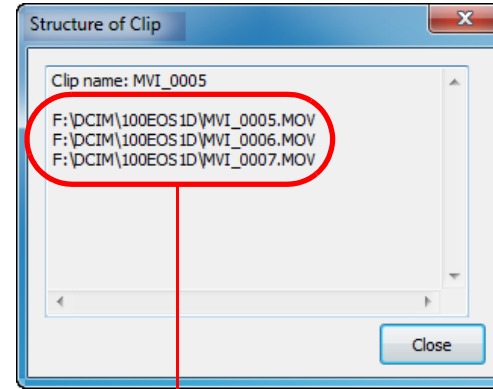
→ The [Clip list] dialog box appears.

- To use this function, you must first select the folder in which the movie clips to check are saved. If a folder is not selected, follow steps 1 to 2 of “Movie Clip Playback” (p.6) to select a folder.

2 In the [Clip list] dialog box, select the movie clip whose structure you want to check, right-click with the mouse, and select [Show structure of the clip] from the menu that appears.



→ The [Structure of Clip] dialog box appears.



Movie file names are displayed in several lines for a movie clip made up of split movie files.

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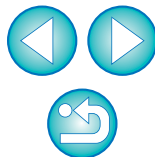
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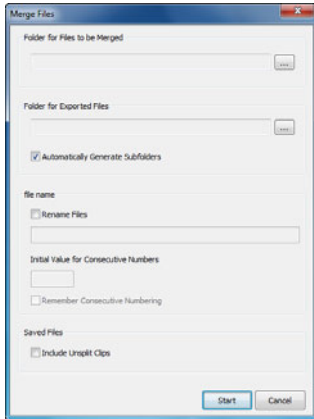
Merging Split Movie Files and Saving as a Single File

You can merge multiple split movie files in a movie clip and save them as a single file. The original movie files are kept as they are in the folder they were originally saved.

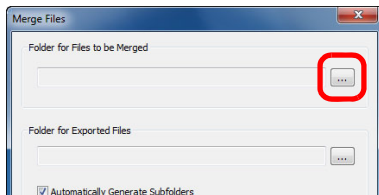
Merging All the Split Movie Files in the Folder and Saving as a Single File

1 In the main window, select the [Tools] menu ► [Merge split files].

→ The [Merge Files] dialog box appears.

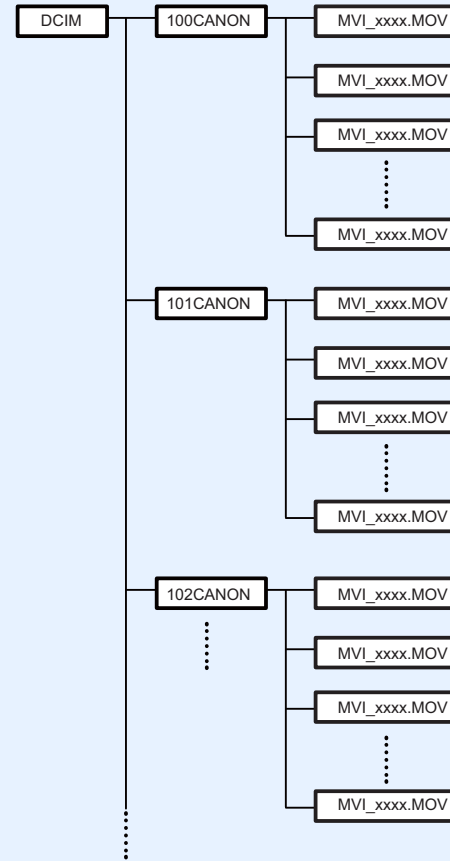


2 Click the [...] button for [Folder for Files to be Merged] and then select the folder in which the movie files to be merged are saved.



● All the movie files saved in the selected folder will be merged.

! Movie files shot on a camera are recorded on the memory card with the folder structure shown below.



With this software, if the above folder structure is not maintained, it may not be possible to merge the split movie files properly. When performing "Merge all the split movie files in the folder and save as a single file" operation, make sure the above folder structure is maintained and the DCIM folder at the upper layer of the folder structure is selected. Even when the folder structure is maintained, be aware that it may not be possible to merge the movie files properly if the name of the selected folder, originally [DCIM], has been changed to another name.

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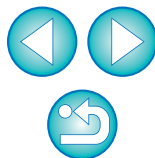
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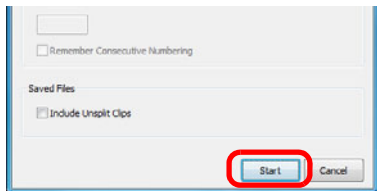
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- 3 Click the [...] button for [Folder for Exported Files] and then select the folder for saving the merged movie file.



- 4 Click the [Start] button.



→ Merging and saving starts.

- A message appears when merging and saving are complete.



- If you checkmark [Automatically Generate Subfolders], a subfolder is created in the folder for the merged movie file selected in step 3, then the merged movie file is saved there. A file can be saved without changing its file name even if another file with the same file name is already in the folder.
- If you checkmark [Rename Files], you can change the file name of the merged movie file when saving it.
- To create file names with consecutive numbering, enter the initial value in the [Initial Value for Consecutive Numbers] box. You can enter an initial value that is up to 5 digits. Checkmark [Remember Consecutive Numbering] to allow consecutive numbering to continue even after closing the [Merge Files] dialog box and opening it again to merge and save movie files.
- If you checkmark [Include Unsplit Clips], movie files not split but saved in the folder selected in step 2 are copied to the folder for saving the merged file together.

Merging Split Movie Files for a Single Movie Clip and Saving as a Single File

- 1 In the main window, select the [View] menu ► [Clip list].

→ The [Clip list] dialog box appears.

- Note that this function is available after you select a folder in which the movie files to be merged are saved. If no folder is selected, follow steps 1 to 2 of “Movie Clip Playback” (p.6) to select a folder.

- 2 In the [Clip list] dialog box, select the movie clip to be merged, then right-click and select [Merge split files] from the menu that appears.

→ The [Merge Files] dialog box appears.

- 3 Click the [...] button for [Folder for Exported Files] and then select the folder for saving the merged movie file.

- 4 Click the [Start] button.

→ Merging and saving starts.

- A message appears when merging and saving are complete.

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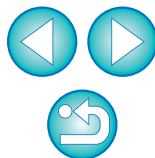
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Exiting EMU

In the main window, select the [File] menu ► [Exit].

→ EMU exits.

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Troubleshooting

If EMU is not operating correctly, refer to the information below.

EMU does not work

- Starting up several EMU at the same time is not possible.
- EMU does not operate properly on a computer which does not meet the system requirements. Use EMU on a computer compatible with system requirements (p.2).
- Even if your computer has the RAM capacity (memory) described in the system requirements (p.2), if other applications are running at the same time as EMU, you may not have sufficient RAM (memory). Exit applications other than EMU.

Text and buttons are not displayed properly

- If the font size for the screen is set to other than 100% (96 dpi), text and buttons may not be correctly displayed. Set the font size for the screen to 100% in the display settings for Windows 7.

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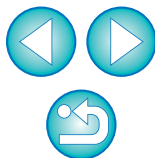
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Error Messages

If an error message appears, refer to the information below.

Message	Cause and solution
Cannot create a folder at the selected destination.	The memory card specified for the save destination is write-protected. Insert a writable memory card.
Please enter consecutive numbers.	No consecutive numbering is entered. Enter an initial value for consecutive numbering when there are several movie clips with movie files to be merged.
The size of the file you are saving is not supported on the destination file system.	The file system specified for the save destination does not support the size of the file being saved. Change the save destination.
Sufficient consecutive numbers are not provided for the files.	Consecutive numbering for file names exceeds 99999. Change the value entered for numbering or the file save destination.
EOS MOVIE Utility has already started by other user.	Log into the user account in Windows in which EOS MOVIE Utility is running, exit EOS MOVIE Utility, and start it up again.
4 GB or larger files may not be supported on the file system of output destination. Do you want to continue?	The merged movie file may not be saved to the drive where the save destination folder is located. Check that the file system specified for the save destination drive supports files of 4 GB or larger.
Could not merge because there was not enough available space.	There is insufficient space on the drive where the save destination folder is located. Create enough space or change the save destination, and then repeat the merge process.

The merge process has been failed.

Check that there is a save destination folder. If the save destination folder is on an external storage device, check that it is connected to the computer correctly.

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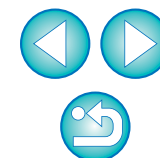
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Keyboard Controls

Key	Controls focused on in main window		
	Next frame/previous frame buttons Play/Stop button Mute button Playback speed adjustment button [LUT] checkbox [100%] checkbox	Volume slider	Frame position slider
Space	Operation set with OS	-	Play/Stop
→		Raise volume	Next frame
←		Lower volume	Previous frame
Home	-		Move to first frame
End	-		Move to last frame
B	Enable/disable look-up table [LUT]		
L	Play		
K	Stop		
S	Adjust playback speed		
V	Switch display size		
F	Full screen display		

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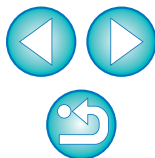
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Uninstalling the Software

- Before starting the software uninstallation, exit all programs you are using.
- Log in under the Administrator privileges when uninstalling the software.
- To prevent computer malfunctions, always restart your computer after you have uninstalled the software. Also, reinstalling the software without first restarting your computer is likely to result in computer malfunctions.

1 Click the [] button ► [All Programs] ► [Canon Utilities] ► [EOS MOVIE Utility for EOS-1D C] ► [Uninstall EOS MOVIE Utility for EOS-1D C].

2 Proceed with the uninstallation as directed by the on-screen messages.

→ The software is uninstalled.

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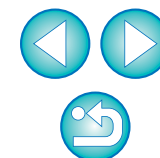
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