

Software for Playing, Merging and Saving Movies

# EOS MOVIE Utility for EOS-1D C

Ver. 1.1

## Instruction Manual

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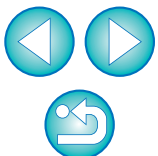
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### ● Content of this Instruction Manual

- EMU is used for EOS MOVIE Utility for EOS-1D C.
- ► indicates the selection procedure of the menu.  
(Example: [File] menu ► [Quit].)
- 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.
- p.\*\* 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
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  -  : 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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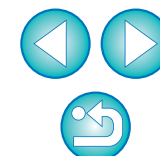
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# Introduction

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 image 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.
- Do not remove the memory card from the card reader during access.

# System Requirements

OS	Mac OS X 10.7 Mac OS X 10.8
Computer	Macintosh with one of the above OS preinstalled
RAM	Minimum 4 GB

- 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.
- See the Canon Web site for support information including the latest OS.

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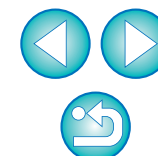
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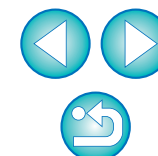
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# Installing the Software

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

- 1 Double-click the compressed EMU file (.gz format) downloaded from the Canon Web site to open it.
- 2 Double-click “emum-1-1-0-0-9l.dmg” in the folder.  
→ The disk image “emum110” is mounted.
- 3 Double-click the disk image “emum110”, and double-click “EMUInstaller” in the displayed folder.
- 4 Follow on-screen instructions for installation.

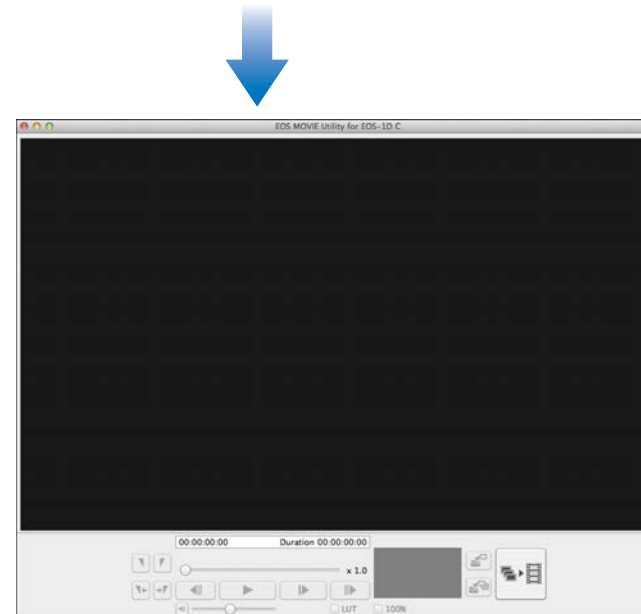
# Starting up EMU

Click the shortcut in your desktop's Dock.



Click

→ EMU starts up and the main window appears.



📄 Starting up multiple EMU at the same time is not possible.

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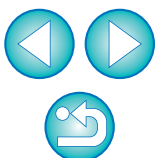
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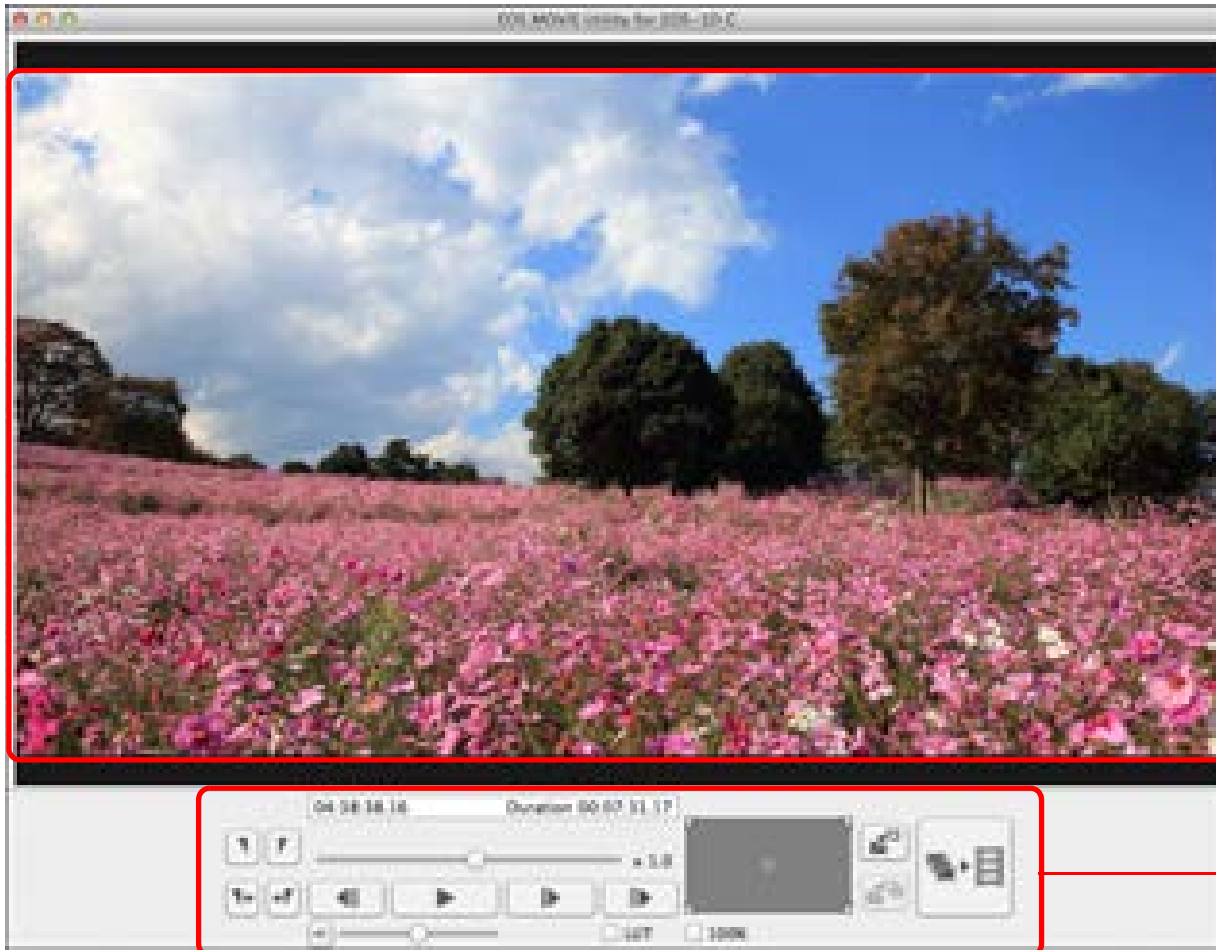
## Main Window

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.

### Control area

Controls playback operations.

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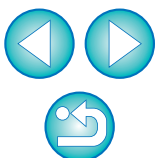
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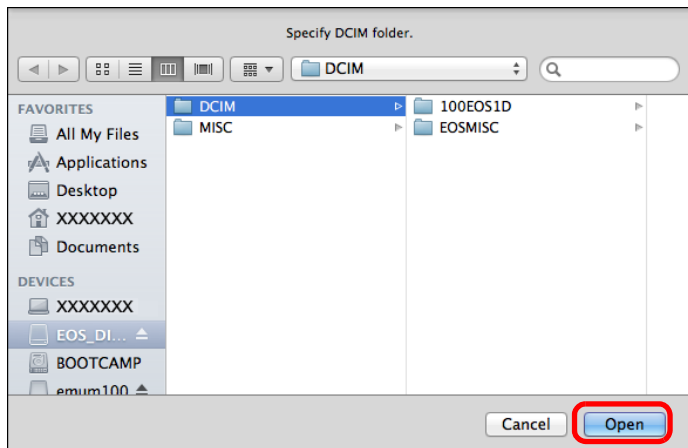


# Playing Back a Movie Clip

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

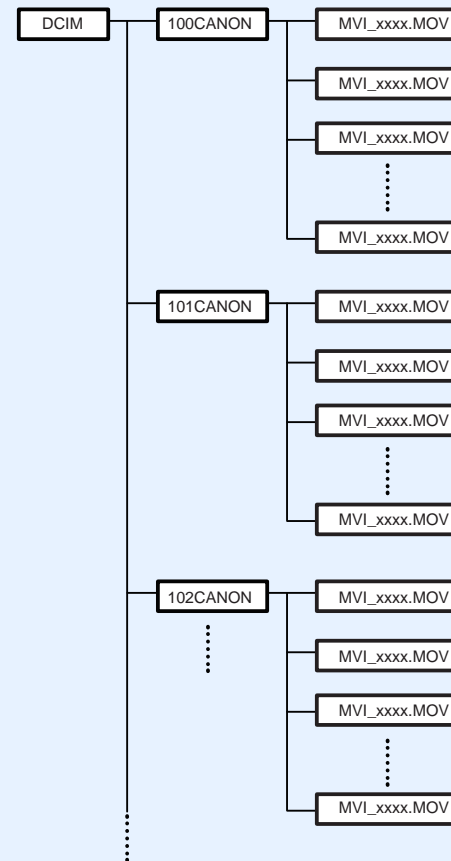
## Movie Clip Playback

- 1 In the main window, select the [File] menu ► [Open...].  
→ A dialog box for selecting a folder appears.
- 2 Select the folder where the movie clip to play is saved, and then click the [Open] button.



- The [Clip list] dialog box appears.
- After inserting the memory card in the card reader, you can also connect the reader to the computer to select folders on the memory card directly.
- You cannot connect the camera to the computer to directly select folders on the camera's memory card.

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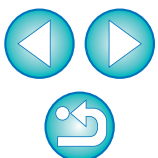
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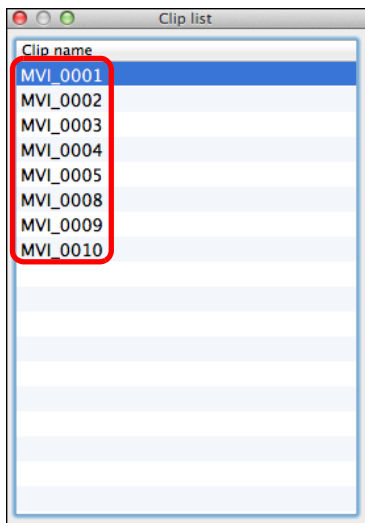
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### 3 Select the movie clip to be played back in the [Clip list] dialog box.



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

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

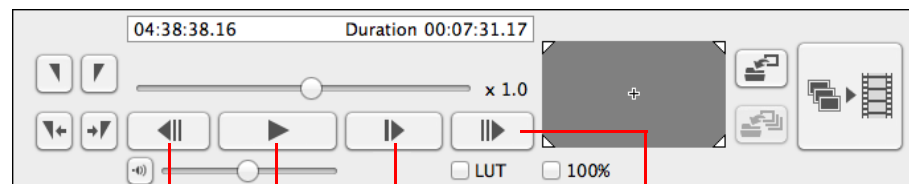


→ The movie clip is played.

- 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

- 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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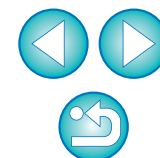
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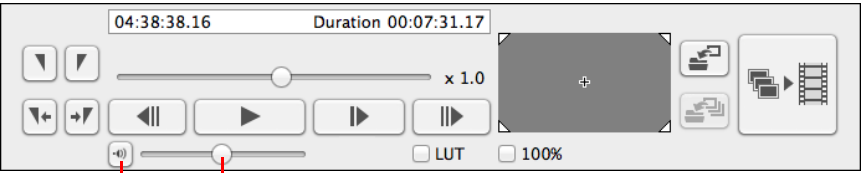
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# Adjusting Volume

You can adjust volume during playback with the volume slider.

Drag the volume slider left or right.

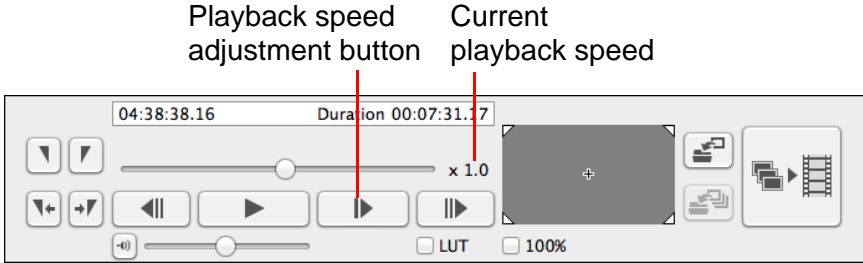


- To temporarily turn audio off, click the [  ] (mute) button.

# Changing the Playback Speed

You can change the movie playback speed.


Click the [  ] button while a movie is played.



- 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

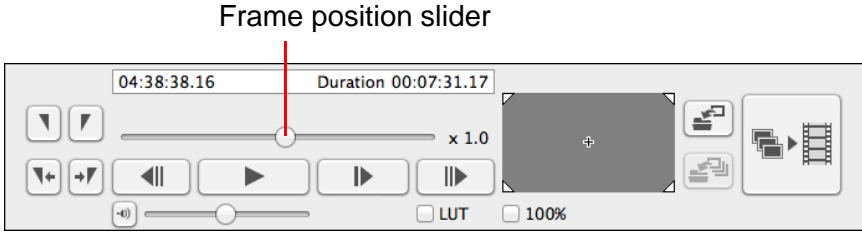
\* You cannot click the playback speed adjustment button.

 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.

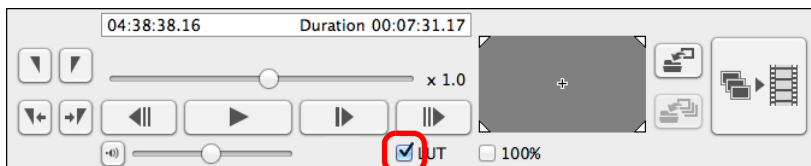
Drag the frame position slider left or right while a clip is played or stopped.



## Playing Back Movies Shot with Canon Log Gamma set to [On]

Without modification, movies shot with Canon Log gamma (p.2) set to [On] will look dark and have low contrast. If you apply a look-up table (LUT) and view the clip, you can check the clip with an image close to normal display.

### 1 Checkmark the [LUT] checkbox.



- [LUT] is not available if movies were shot with Canon Log gamma set to [Off].

### 2 Play back the selected movie.

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



You can check or uncheck the LUT checkbox with the <B> key on the keyboard.

## 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 area to display the movie in full screen.
- To cancel full screen display, press the <Esc> key or double-click the preview area.

## 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
<B>	Enable/Disable look-up table (LUT)
<L>	Play
<K>	Stop
<S>	Adjust playback speed
<V>	Switch display mode ([100% view]/[Fit to window])

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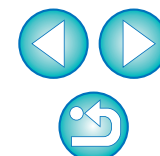
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## Switching the Movie Display Size

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

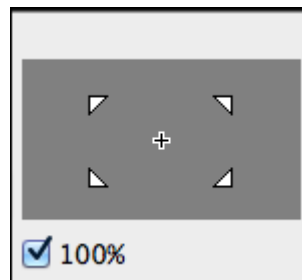


[100% view] mode



- 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 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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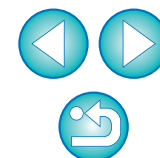
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# Confirming the Movie File Information

You can display and confirm shooting information for movie clips.

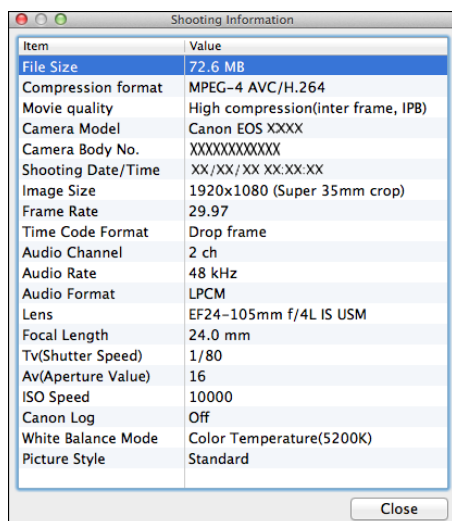
## 1 In the main window, select the [View] menu ► [Clip list...].

- 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.



Item	Value
File Size	72.6 MB
Compression format	MPEG-4 AVC/H.264
Movie quality	High compression(inter frame, IPB)
Camera Model	Canon EOS XXXX
Camera Body No.	XXXXXXXXXX
Shooting Date/Time	XX/XX/XX XX:XX:XX
Image Size	1920x1080 (Super 35mm crop)
Frame Rate	29.97
Time Code Format	Drop frame
Audio Channel	2 ch
Audio Rate	48 kHz
Audio Format	LPCM
Lens	EF24-105mm f/4L IS USM
Focal Length	24.0 mm
Tv(Shutter Speed)	1/80
Av(Aperture Value)	16
ISO Speed	10000
Canon Log	Off
White Balance Mode	Color Temperature(5200K)
Picture Style	Standard

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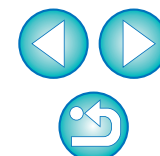
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# Saving Still Images

Still images can be extracted and saved from the current movie clip.

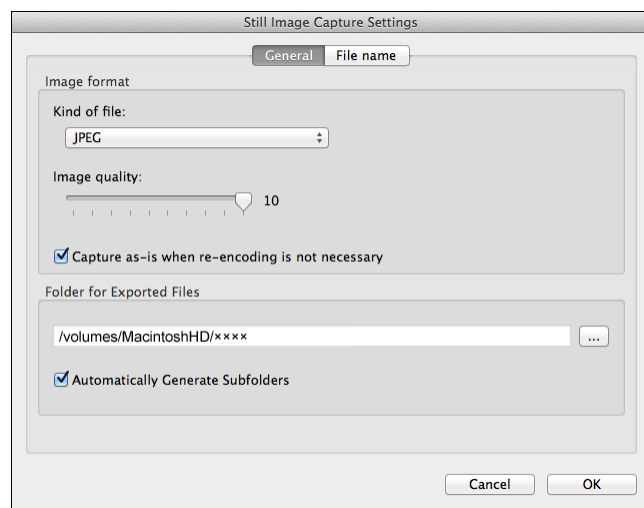
## Still Image Capture Settings

First, complete the settings for how still images are saved from movies.

**1** In the main window, select the [File] menu ► [Still Image Capture Settings].

→ The [Still Image Capture Settings] dialog box appears.

**2** On the [General] tab, complete the settings as necessary.



- Under [Kind of file], select the desired file format. Select [TIFF] to save images as uncompressed 8-bit RGB TIFFs. By default, [JPEG] saves images at the highest setting in [Image quality].
- When the file format specified in [Kind of file] under [Image format] is set to [JPEG] and [Capture as-is when re-encoding is not necessary] is checkmarked, still images will be extracted from movies without modifications for the following movies. Faster processing will be achieved.
  - 4K movies shot with Canon Log gamma set to [Off]
  - 4K movies shot with Canon Log gamma set to [On] without applying an LUT
- To specify the destination, click the [ ] button under [Folder for Exported Files] and choose the location in the [Browse For Folder] dialog box.
- To save still images in a new subfolder, checkmark [Automatically Generate Subfolders]. This option prevents files from being renamed if the destination folder already contains files with the same name.

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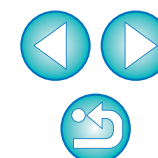
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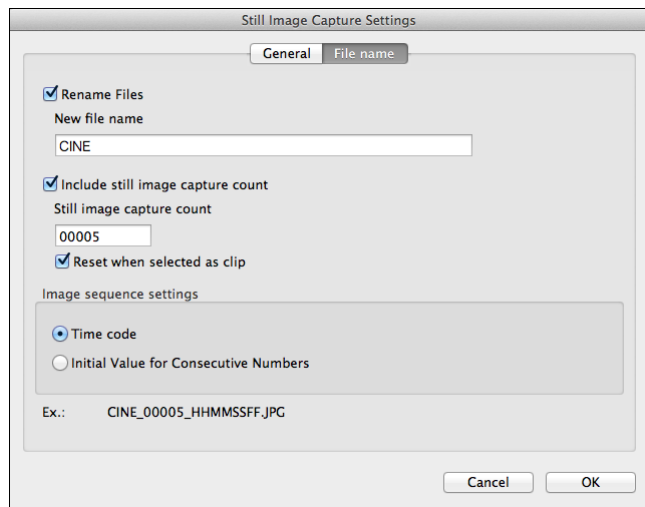
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### 3 On the [File name] tab, complete the settings as necessary and click the [OK] button.

→ The settings are now complete.



- To name still image files or edit existing names, checkmark [Rename Files]. In [New file name], enter a name or change the existing name. File names can be up to 30 characters. Note that still image files cannot be renamed unless this option is checkmarked. In such a case, the file name will be the same with the original movie clip.
- To append a serial number to file names that indicates the number of times still images have been captured from a movie clip, checkmark [Include still image capture count]. In [Still image capture count], enter the first serial number, in the range 0–99999.
- To reset the serial number in [Still image capture count] when you select another movie clip, checkmark [Reset when selected as clip].
- To append the time code to the end of file names, select [Time code] under [Image sequence settings]. To append a serial number, select [Initial Value for Consecutive Numbers].

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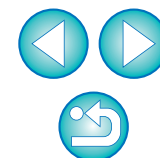
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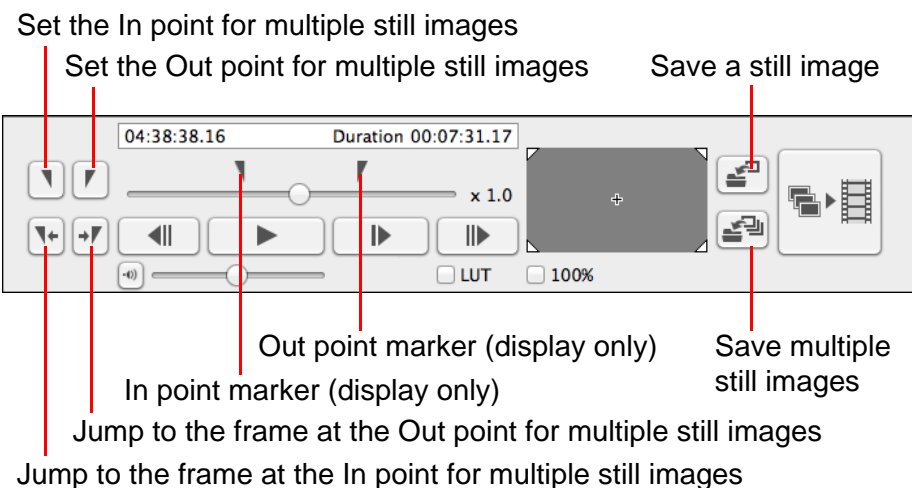
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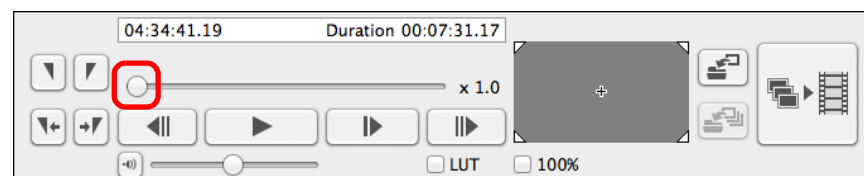
## Still Image Saving Controls

When you save still images, you can perform the following operation with buttons.

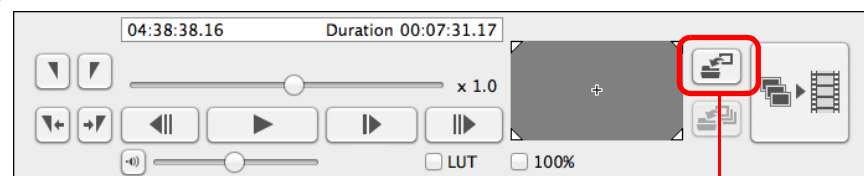


## Saving Individual Still Images

- 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 left or right to display the frame to save.



- 4 Click the Save individual still image button.



Save individual still image button

- A still image is saved following the settings in the [Still Image Capture Settings] dialog box.
- You can also click this button during movie playback to save still images. In this case, playback is paused as the current frame is saved as a still image.



- To save still images with the LUT applied, checkmark [LUT].
- Focal length, shutter speed, ISO speed, and white balance in the shooting information appended to the image are values when the movie shooting started. However, the date and time when the still image was actually shot will be calculated and appended as shooting date and time.

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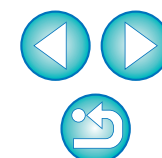
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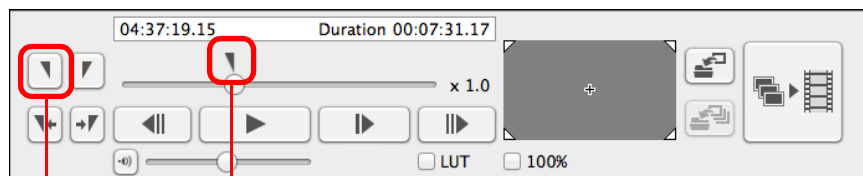
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## Saving Multiple Still Images

By specifying a segment in the current movie clip, you can save all frames within the segment as still images.

- 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 left or right to display the starting frame, and then click the In point button when a frame from which you want start saving appears.

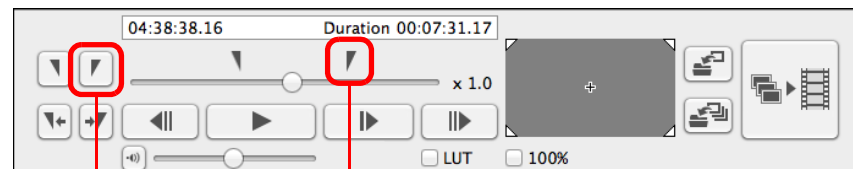


In point marker

In point button

- The In point marker is now displayed, and the starting point for still images to save is set.
- You can also click this button during movie playback to specify the In point.
- Once you have specified the In point, you can jump to the frame at the In point by clicking the [ ] (move to IN point) button. If no In point has been set, clicking this button jumps to the first frame. You can also click the [ ] (move to IN point) button during movie playback.

- 4 Drag the frame position slider left or right to display the ending frame, and then click the Out point button.



Out point button

Out point marker

- The Out point marker is now displayed, and the ending point for still images to save is set.
- You can also click this button during movie playback to specify the Out point.
- Once you have specified the Out point, you can jump to the frame at the Out point by clicking the [ ] (move to OUT point) button. If no Out point has been set, clicking this button jumps to the last frame. You can also click the [ ] (move to OUT point) button during movie playback.
- The maximum range between In and Out points is one hour.

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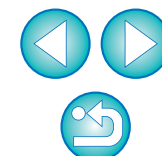
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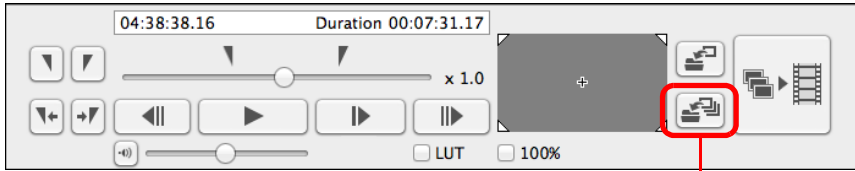
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## 5 Click the Save multiple still images button.



Save multiple still  
images button

- Still images are saved following the settings in the [Still Image Capture Settings] dialog box. All frames between the In and Out points are saved as still images.
- You can also click this button during movie playback to save still images. In this case, playback is paused during capture.
- To save still images with the LUT applied, checkmark [LUT].
- Focal length, shutter speed, ISO speed, and white balance in the shooting information appended to the image are values when the movie shooting started. However, the date and time when the still image was actually shot will be calculated and appended as shooting date and time.

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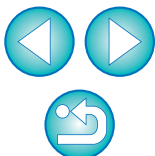
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# Merging and Saving Movie Files

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.

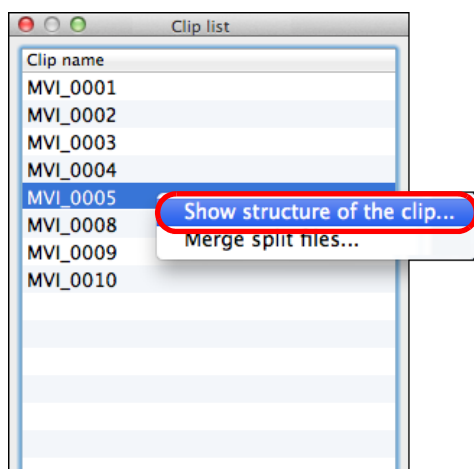
## Checking the Movie Files in a Movie Clip

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.

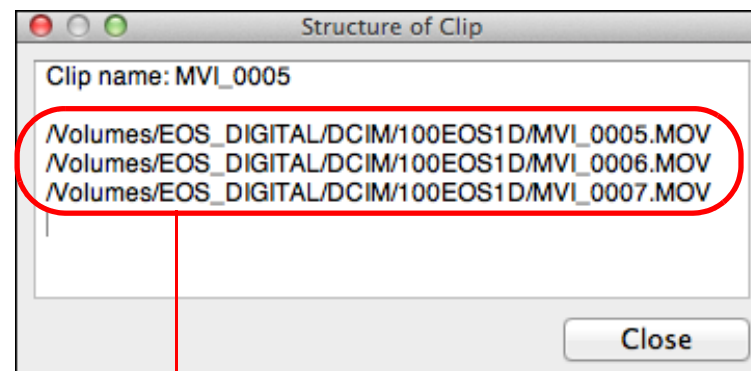
### 1 In the main window, select the [View] menu ► [Clip list...].

- 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, then click while holding down the <control> key, 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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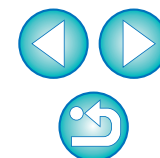
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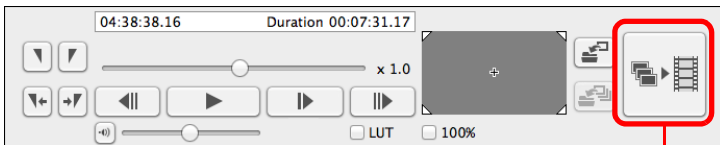


## Merging Split Movie Files and Saving as a Single File

You can merge multiple split movie files composing 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

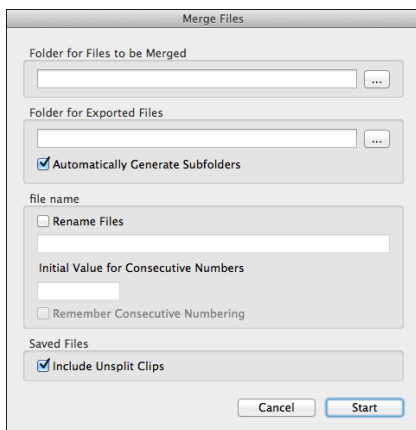
1 Click the Merge split files button in the main window.



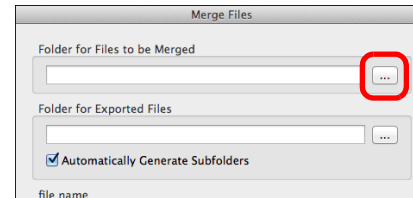
Merge split files button

→ The [Merge Files] dialog box appears.

- In the main window, you can also select the [Tools] menu ► [Merge split files...] to display the [Merge Files] dialog box.



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.

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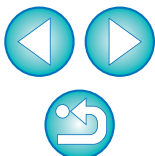
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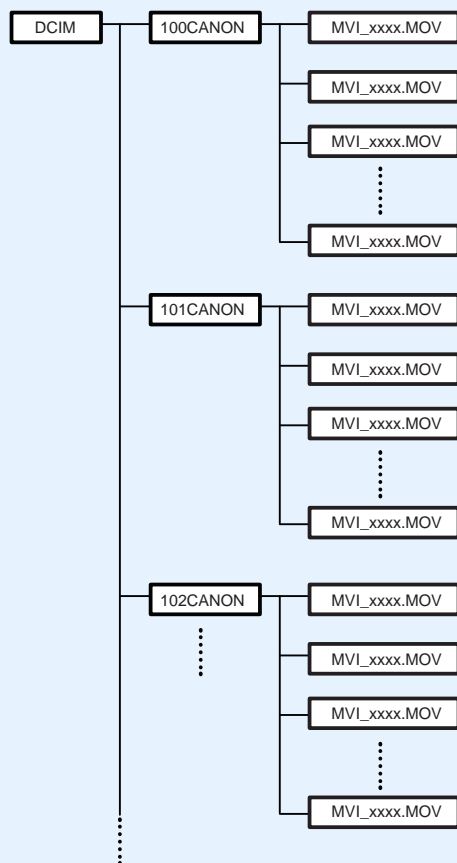
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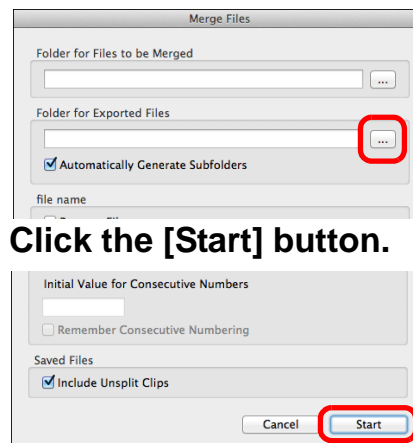


! Movie files shot on a camera are recorded on the memory card with the folder structure shown below.



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.

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.

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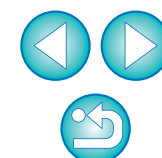
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## Merging Split Movie Files for a Single Movie Clip and Saving as a Single File

- 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 click while holding down the <control> key, 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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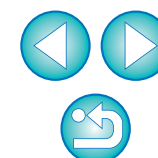
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# Quitting EMU

In the main window, select the [EOS MOVIE Utility for EOS-1D C] menu ► [Quit EOS MOVIE Utility].

→ EMU quits.

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## Troubleshooting

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

### EMU does not work

- 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). Quit applications other than EMU.

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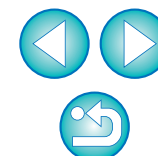
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## Error Messages

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 Macintosh in which EOS MOVIE Utility is running, quit 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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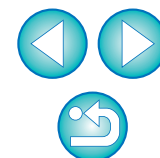
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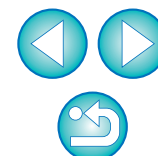
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## Keyboard Controls

Key	
Space	Play/Stop
→	Next frame
←	Previous frame
Shift+→	Jump to Out point for multiple still images
Shift+←	Jump to In point for multiple still images
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
I	Set the In point to save multiple still images
O	Set the Out point to save multiple still images
Command+S	Save a still image
Command+T	Save multiple still images
D	Merge all split files in folder and save

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## Uninstalling the Software

- Quit any applications before uninstalling the software.
- Log into the account used when installation was performed.
- When you have moved the folders and the software to be deleted to the Trash, select the [Finder] menu ► [Empty Trash...] and empty the Trash. You cannot reinstall the software until you have emptied the Trash.

- 1 Display the folder in which the software is saved.**
  - Open the [Canon Utilities] folder.
- 2 Drag the folder for the software to be uninstalled to the Trash.**
- 3 Select [Finder] menu on the desktop ► [Empty Trash...].**
  - The software is deleted.
  - When uninstallation ends, restart your computer.

⚠ You cannot retrieve deleted data once you have emptied the Trash, so be particularly careful when deleting data.

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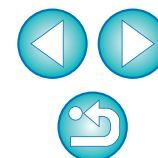
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## About This Instruction Manual

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