

XDCAM EX Clip Browsing Software

User's Guide Version 1.01

XDCAM EX

NOTICE TO USERS

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For Windows

Settings for using the application on Windows

Introduction

Purpose of this manual

This manual explains how to use the XDCAM EX Clip Browsing Software on Microsoft Windows. This manual is intended for users who will use this application to perform file and folder operations. It assumes that readers have a basic familiarity with Microsoft Windows.

Overview

The XDCAM EX Clip Browsing Software allows you to work with clips created with XDCAM EX devices. After installing this application on your computer, you can use its intuitive graphical user interface to organize your clips by copying, moving, and deleting them. You can also perform format conversions, preview the clips, and view their metadata.

This application supports data that is compatible with the XDCAM EX format.

Hardware and software requirements

Install this application on a computer meeting the following hardware and software requirements.

Item	Description
OS	Microsoft Windows XP SP2 or higher (32-bit version), or Microsoft Windows Vista (32-bit version) ^{a)}
CPU	Intel Pentium III 1 GHz equivalent or higher (Intel Pentium D 3 GHz equivalent or higher recommended) ^{b)}
Memory	512 MB or more (1 GB or more recommended)

a) Microsoft, Windows, and Windows Vista are registered trademarks of Microsoft Corporation in the United States and other countries.

b) Intel and Pentium are registered trademarks of Intel Corporation in the United States and other countries.

Installing the Application

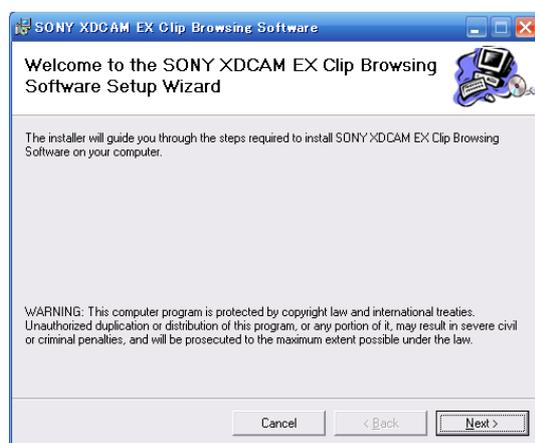
Installing from the CD-ROM

- 1 Insert the supplied CD-ROM into the CD-ROM drive of your computer.

The cover page appears automatically in your browser. If it does not appear, double click index.htm on the CD-ROM.

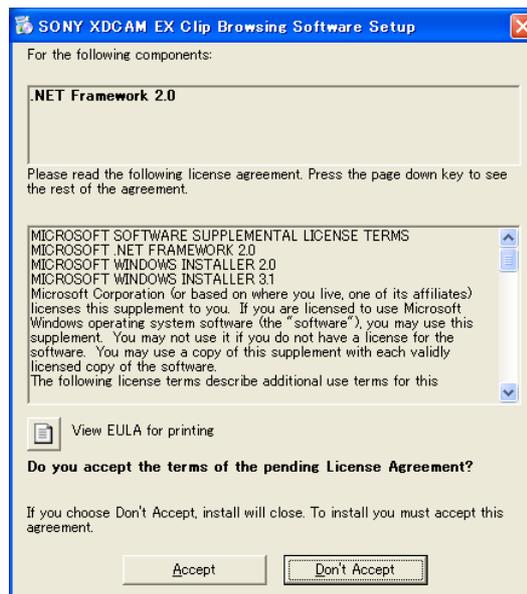
- 2 Select and click “Windows XP/Vista English” from XDCAM EX Clip Browsing Software Installer. (This application allows you to select either English or Japanese as the display language. You can change the selection after the installation (see page 24).)

The setup wizard appears.



If the following screen appears

Read the .NET Framework 2.0 license agreement, and click Accept. The .NET Framework 2.0 software component will be installed on your computer.

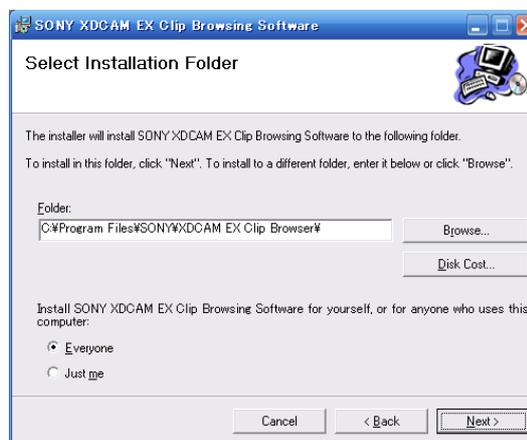


- 3 Click Next in the setup wizard.

A license agreement screen appears.

- 4 Click I Agree, and then click Next.

A screen for selecting the installation destination appears.



To change the installation destination

Click the Folder: box, highlighting it, and then enter the path to the folder that you want to use as the installation destination. Or click the Browse... button and select the folder in the dialog that appears.

To check the amount of free space at the installation destination

Click Disk Cost...

To install for use by yourself only

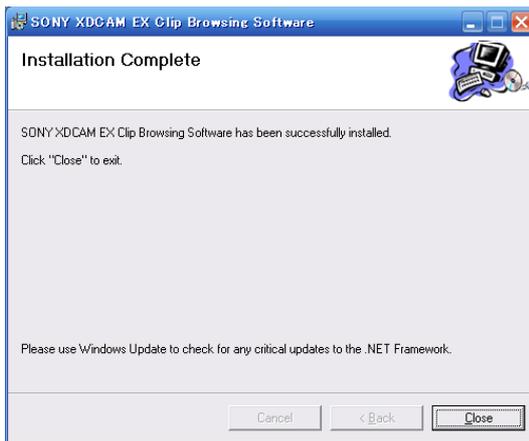
Select Just me.

Normally you will select Everyone. This makes the installation available for use by everyone.

5 Click Next.

Complete the installation by following the instructions on the screen.

The following screen appears when the installation finishes.



6 Click Close to close the dialog.

To uninstall the application

Select Add or Remove Programs in the Windows Control Panel, and then select and delete XDCAM EX Clip Browsing Software from the list of installed programs.

Launching and Exiting the Application

See "Installing the Application" (page 7) for more information about how to install the application.

Launching the Application

Double click the shortcut icon on the desktop. The XDCAM EX banner appears, the application starts, and the operating windows (see page 9) appear.

Exiting the Application

Do one of the following.

- Select Exit from the File menu.
- Click the x button in the upper right of the operating window.

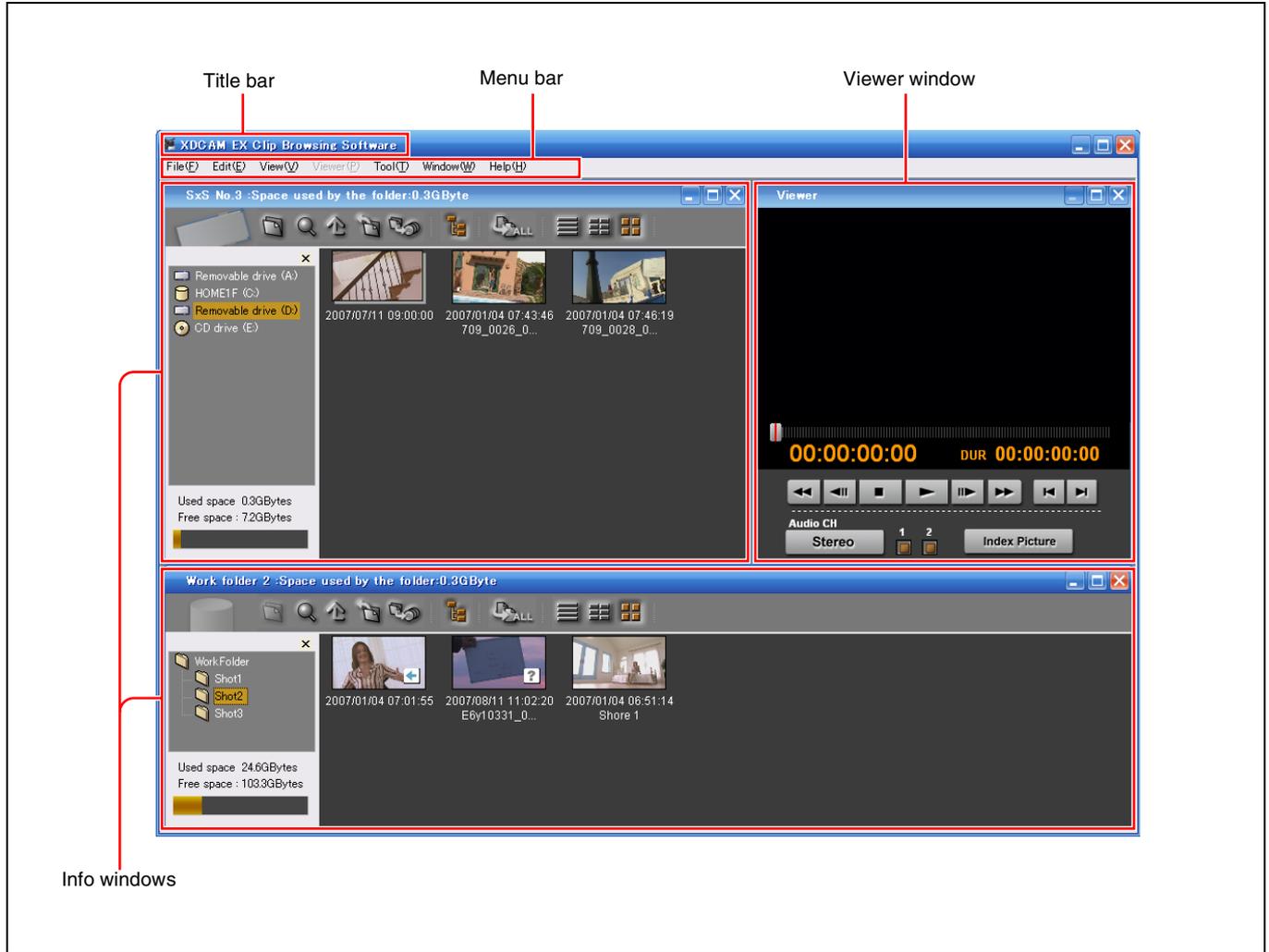
Note

Do not power off the computer while a file operation is still underway. Files may be corrupted. Wait until the operating finishes, or cancel the operation, before powering off.

Names and Functions of Parts

Operating Window Configuration

The following figure shows the default configuration of the operating windows.



To customize the window configuration

You can customize the window configuration by doing the following in the various operating windows.

- Drag the window title bar to move the window.
- Resize the window by dragging on any window border.
- Click the maximize button in the upper right corner of the window to maximize it.
- Close a window you do not need by clicking the x (close) button in the upper right corner.

Note

The only windows that can be resized are the two Info windows. The Viewer window cannot be resized.

The application remembers your most recent configuration and recreates it the next time it starts.

To return to the default configuration

Select Default Window Positions from the View menu.

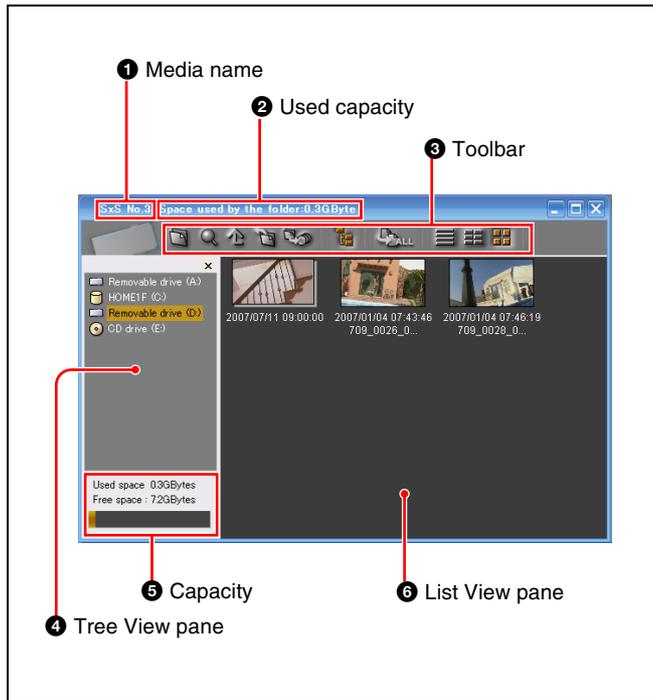
Info Windows

These windows are where you manage clips and folders, and view clip metadata.

For proper display of information in Info windows

- Information in Info windows does not display properly if the selected font does not support the character code set used in the software operating environment. Before displaying information in the Info windows, select an appropriate font and character code set in the Options dialog.
- Carriage returns may be displayed for some fonts.

See “Option Settings” (page 24) for more information about fonts.



- 1 Media name**
Displays the media name assigned to the media or folder.
- 2 Used capacity**
Displays the capacity used by clips and their related metadata in the currently selected media or folder.
- 3 Toolbar**
Contains tool buttons for operations on clips and folders.

Tool buttons		Function	Reference
Icon	Name		
	New Folder	Creates a new folder.	Page 21

Tool buttons		Function	Reference
Icon	Name		
	Search	Searches for a clip.	Page 18
	Up	Moves up to the next folder.	Page 13
	Change Root Folder	Changes the root folder in the Tree View pane.	Page 13
	Split Folder	Splits a folder.	Page 22
	Tree View	Shows or hides the Tree View pane.	–
	Copy All	Copy all of the clips in the current media or folder.	Page 23
	Details	Puts the List View pane into Details View mode.	Page 11
	List	Puts the List View pane into List View mode.	
	Thumbnails	Puts the List View pane into Thumbnails View mode.	

- 4 Tree View pane**
Displays two levels of the tree structure of media or folders. A folder in the lower level can be double clicked to make it the root folder and display the level beneath that folder.
When you click a media item or double click a folder, the clips in the media or folder appear in the List View pane.
- 5 Capacity**
Displays the total capacity and remaining capacity of the media selected in the Tree View pane. The remaining capacity is shown as a numeric value and as a bar graph. The orange bar grows longer as more of the media’s capacity is used.
- 6 List View pane**
Displays the clips in the media or folder that is selected in the Tree View pane. You can select from the following three view modes.
Thumbnail View: This view displays clip thumbnails. Icons are shown for clips without thumbnails. It also displays the title of each clip and the date and time when it was shot.

List View: This view displays an icon indicating the type of the clip, the title of the clip, and the date and time when it was shot.

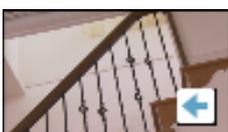
Details View: This view displays an icon indicating the type of the clip, the title, size, and duration of the clip, and the date and time when it was shot.

To switch the clip view mode

Do one of the following.

- Select Thumbnails, List, or Details from the View menu.
- Click the Thumbnails, List, or Details button in the toolbar.

View mode	Icon	Description
List or Details view		Normal clip
		Clip with OK status (as set on the XDCAM EX device) ^{a)}
		One of the smaller clips into which a longer recording has been split ^{b)}
		MP4 file, imported clip
		MP4 file, unregistered clip (clip that has not been imported)
		Abnormal clip ^{c)}

View mode	Thumbnail display example	Description
Thumbnails view		Normal clip
		Clip with OK status (as set on the XDCAM EX device) ^{a)}
		One of the smaller clips into which a longer recording has been split (a frame is displayed around it) ^{b)}
		MP4 file, imported clip
		MP4 file, unregistered clip (clip that has not been imported)
		Abnormal clip ^{c) d)}

- a) Clips with OK status can be moved or deleted by this application.
- b) An XDCAM EX device automatically saves video that exceeds 4 GB in size as multiple clips. These clips are parts of the complete recording and can be saved on multiple media. All of the original recorded video is not played back when a split clip is played back.
- c) A clip that cannot be played or displayed properly by this application. The file may be corrupt, file links may be broken or changed, required files may be missing, or thumbnail creation may have failed.
- d) When another application is using the clip file.

Viewer Window

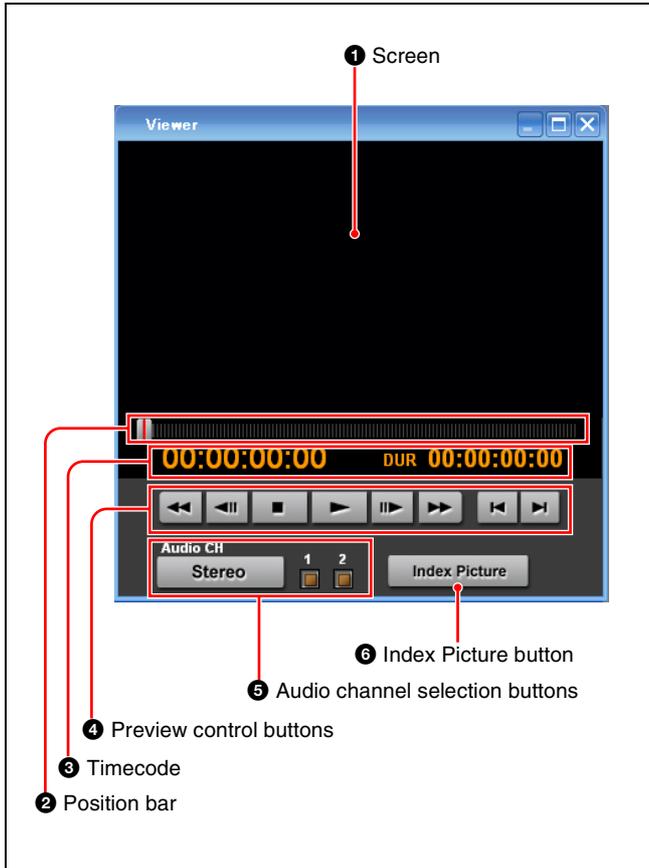
This window is where you preview clips and change clip index picture thumbnails.

Notes about the Viewer window

Playback in this window is preview playback. Note the following points.

- Depending on the performance of your computer and the processing load, dropped frames may occur and timecode may differ from the actual values.
- When the playback clip is defective, video breakup may occur and the playback may freeze.
- All of the original recorded video is not played back when a split clip is played back.

- It may not be possible to play clips created on devices other than XDCAM EX devices.
- If the colors of the playback video are not normal, exit the software and try adjusting the color parameters in the Properties window of your desktop screen. It may be possible to restore normal colors.
- Improper playback may occur if the screen properties of your computer are changed during playback. If this occurs, restart the application.
- The video may not appear on both monitors when you try to display it on the computer's monitor and an external monitor, for example when using a laptop computer.



1 Screen

Displays the playback video.

2 Position bar

Displays the current position in the clip. You can move to any position in the clip by dragging the knob or by clicking directly on the position bar.

3 Timecode

Displays the timecode of the position bar and the duration of the clip. Counter values are displayed when no timecode is recorded in the clip.

Notes

- The counter operates at 25 fps for unregistered clips.

- The count for import clips starts at 00:00:00:00.

4 Preview control buttons

These are buttons for controlling clip previews.

Button	Function
	Start play. Lights in green during play.
	Stop at the current position.
	Search forward from the current position (fast forward).
	Search back from the current position (rewind).
	Go to the last frame of the clip.
	Go to the first frame of the clip.
	Step back 1 frame.
	Step forward 1 frame.

5 Audio channel selection buttons

The Stereo/Monaural button switches between stereo and monaural. When monaural is selected, the 1 and 2 buttons select the audio channel to monitor.

6 Index Picture button

Sets the index picture of the current preview clip to a still image of the currently displayed frame.

Selecting Work Media and Work Folders

This section explains how to select the media or folder that contains the clips you want to work with. There are two ways to select them: by using the Tree View pane of an Info window, and by using the Change Root Folder dialog.

Media

In this manual, “media” refers to the following media types.

- SxS memory cards
- USB memory
- Internal hard disks
- Externally connected hard disks
- CD-R discs
- DVD-R discs
- Blu-ray discs

To select in the Tree View pane

- 1 In the Tree View pane of an Info window, double click the media or folder that you want to select.

The level beneath the double clicked media or folder appears. The Tree View pane displays two levels, consisting of the media or folder itself and the next lower level.

When there are clips saved directly to the top level of the media, they appear in the List View pane.

- 2 Double click a lower-level folder.

The double-clicked folder becomes the root folder, and its lower-level folders appear.

To return to the next-higher level

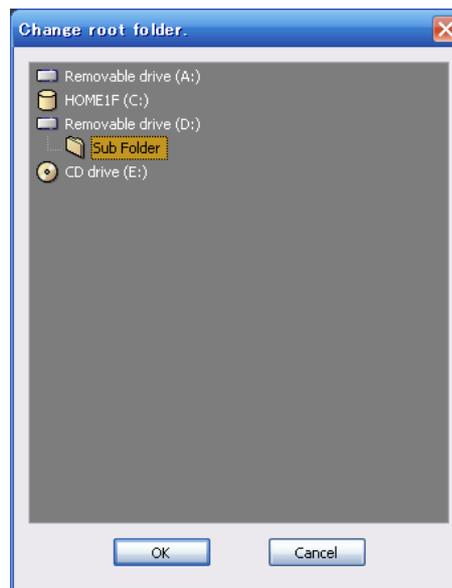
Select Up from the View menu, or click the Up button in the toolbar.

- 3 Repeat step 2 as required.

The contents of the selected folder appear in the List View pane.

To select in the Change Root Folder dialog

- 1 Open the Change Root Folder dialog by selecting Change Root Folder from the View menu, or click the Change Root Folder button in the toolbar.



- 2 In the Tree View pane of the dialog, select a media item or folder.

- 3 Click OK.

The Change Root Folder dialog closes, and the contents of the selected media or folder appear in the List View pane.

When there are no clips in the selected media or folder

If the List View pane is in Thumbnails View mode, nothing appears in the List View pane. If it is in List View or Details View mode, a message appears saying that there are no clips to display.

Notes

- Normally an image representing the selected media or folder appears in the toolbar, but an image of a hard disk may appear for some types of media.
- When you select a media item, a message may appear saying that salvage is required, and that you should salvage the media on the device that recorded it. This message appears when the data is defective, typically because the XDCAM EX device was powered off during recording, or because the media was ejected too soon. If this message appears, you should reinsert the media into the XDCAM EX device and attempt to salvage it as soon as possible. The data may become unrecoverable if you continue to work with it without salvaging it.

Clip Operations

Clip operation precautions

Always observe the following precautions during processing of clip operations.

- Do not power off the computer or media drive before the operation completes.
- Do not use Windows Explorer or another file management tool to delete folders that contain the clips being processed.
- Do not eject the media before the operation completes.

Copying Clips

You can duplicate clips on your media or computer, and copy clips between media and the computer.

Grouping split clips by gathering them into one place

XDCAM EX devices automatically save video that exceeds 4 GB in size as multiple clips. If you collect these clips into one media or folder, they are automatically grouped so that you can handle them as a single clip.

See “*Grouping Split Clips*” (page 16) for more information.

- 1 Display the clips that you want to copy in one of the Info windows.

See “*Selecting Work Media and Work Folders*” (page 13) for more information about how to display the clips.

- 2 In the other Info window, select the copy destination media or folder.

If you want to copy the clips to a new folder

Create a new folder in the copy destination media or folder.

See “*Creating Folders*” (page 21) for more information about how to create folders.

- 3 Select the clips to copy in the copy source window.

To select multiple clips

Click the clips one after the other with the Ctrl key held down.

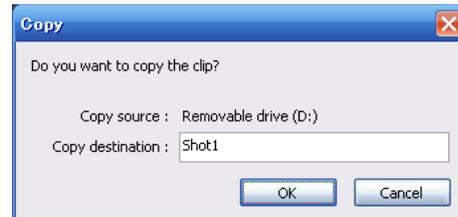
Note

Unregistered clips and abnormal clips can be selected, but they are not copied.

- 4 Do one of the following.

- Drag the selected clips and drop them in the List View pane of the Info window of the copy destination media or folder.
- Select Copy from the Edit menu. Then click the Info window of the copy destination media or folder and select Paste from the Edit menu.

A message appears asking if you want to execute the copy.



- 5 Check the copy source and copy destination, and then click OK to execute the copy or Cancel to cancel it.

To change the copy destination

Click the Copy destination: box to highlight it, and then enter the name of the folder that you want to use as the copy destination.

A dialog illustrating the progress of the copying appears when the copying starts.

Note

Once it has been completed, a copy cannot be undone.

To cancel the copy operation

Click Cancel in the progress dialog.

Reasons why a copy operation may fail

Copy operations may fail for the following reasons. In these cases, an error message appears and the copy is not executed.

- There is not enough free capacity at the copy destination.
- A clip with the same name as one of the selected clips already exists at the copy destination. Even if the titles are different, clips are recognized as the same clip if they share the same ID (UMID).
- You do not have delete/write privileges to the destination media or folders.
- The destination media or folder is write protected.

Moving Clips

You can move clips on your media or computer, and move clips between media and the computer.

Note

Clips with OK status can be moved by this application.

Grouping split clips by gathering them into one place

XDCAM EX devices automatically save video that exceeds 4 GB in size as multiple clips. If you collect these clips into one media or folder, they are automatically grouped so that you can handle them as a single clip.

See “Grouping Split Clips” (page 16) for more information.

- 1 Display the clips that you want to move in one of the Info windows.

See “Selecting Work Media and Work Folders” (page 13) for more information about how to display the clips.

- 2 In the other Info window, select the move destination media or folder.

If you want to move the clips to a new folder

Create a new folder in the move destination media or folder.

See “Creating Folders” (page 21) for more information about how to create folders.

- 3 Select the clips to move in the move source window.

To select multiple clips

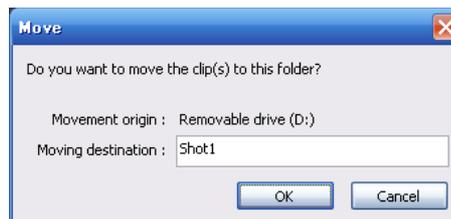
Click the clips one after the other with the Ctrl key held down.

Note

Unregistered clips and abnormal clips can be selected, but they cannot be moved.

- 4 Do one of the following.
 - Drag the selected clips with the Ctrl key held down and drop them in the List View pane of the Info window of the move destination media or folder.
 - Select Cut from the Edit menu. Then click the Info window of the move destination media or folder and select Paste from the Edit menu.

A message appears asking if you want to execute the move.



- 5 Check the move origin and move destination, and then click OK to execute the move or Cancel to cancel it.

To change the move destination

Click the Move destination: box to highlight it, and then enter the name of the folder that you want to use as the move destination.

A dialog illustrating the progress of the move appears when the move starts.

Notes

- Once it has been completed, a move cannot be undone.
- Do not exit this application during the move. Doing so can break the links between clips and their metadata. The link information for split clips can be lost, causing them to become abnormal clips. We recommend that you move important clips by copying them and then deleting the copy sources.

To cancel the move operation

Click Cancel in the progress dialog.

Reasons why a move operation may fail

Move operations may fail for the following reasons. In these cases, an error message appears and the move is not executed.

- There is not enough free capacity at the move destination.
- A clip with the same name as one of the selected clips already exists at the move destination. Even if the titles are different, clips are recognized as the same clip if they share the same ID (UMID).
- You do not have delete/write privileges to the source or destination media or folder.
- The source or destination media or folder is write protected.

Deleting Clips**Note**

Clips with OK status can be deleted by this application.

- 1 Display the clips to delete.

See “Selecting Work Media and Work Folders” (page 13) for more information about how to display the clips.

- 2 Select the clips to delete by clicking them.

To select multiple clips

Click the clips one after the other with the Ctrl key held down.

- 3 Do one of the following.

- Press the Delete key.
- Select Delete from the Edit menu.

A message appears asking if you are sure you want to delete the clips.

- 4 Click OK to execute the deletion, or click Cancel to cancel it.

Note

It is not possible to undo the deletion once it has been completed.

Reasons why a delete operation may fail

Deletion operations may fail for the following reasons. In these cases, an error message appears and the deletion is not executed.

- You do not have delete/write privileges to media or folder where the clips are stored.
- The media or folder where the clips are stored is write protected.

Grouping Split Clips

When you have split clips created as a result of an extended recording session, and those clips are saved on separate media, you can group those clips by collecting them in a single location. Grouped clips can be handled as a single clip. You can collect the split clips by copying them, by moving them, or by combining split folders.

See “Copying Clips” (page 14), “Moving Clips” (page 14), and “Combining Folders” (page 23) for more information about the operations.

Notes

- Split clips which are not continuous along the time axis are not grouped.
- Unregistered clips and abnormal clips are not grouped.
- Clips with altered UMIDs are not grouped. Grouping is performed on the basis of the UMIDs of split clips, and not on the basis of their file names.

Importing Clips

You can import MP4 files (unregistered clips) and register them as clips that can be handled by XDCAM EX devices.

- 1 Select the media or folder that contains the MP4 files to be imported.

See “Selecting Work Media and Work Folders” (page 13) for more information about how to select media and folders.

- 2 Do one of the following.

Select unregistered clips in the List View pane

Select unregistered clips (MP4 files) in the List View pane, and then select Import from the File menu.

The Import dialog opens with the selected clips already entered in the import list.

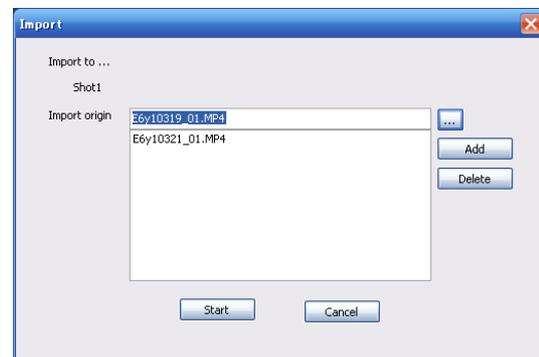
Proceed to step 6.

Select unregistered clips in the Import dialog

Select Import from the File menu.

The Import dialog opens with no clips entered in the import list.

Proceed to step 3.



- 3 Click the “...” button to open a folder browsing window and specify the MP4 file to import in that window.

The specified file appears in the Import origin edit box.

Note

Files over 4 GB in size cannot be imported.

- 4 Click the Add button to add the file to the list.
- 5 Repeat steps 3 and 4 until you have selected all the files you want to import.

To delete a file from the list

Select the file to delete and click Delete.

6 Click Start to start the import.

When the import finishes, the unregistered clips are converted to normal clips.

A  mark is displayed for imported clips.

Reasons why an import operation may fail

File import operations may fail for the following reasons. In these cases, an error message appears and the files are not imported.

- You do not have delete/write privileges for the import destination media or folder.
- The import destination media or folder is write protected.

Notes

- The properties of import clips are set automatically.
- The timecode of import clips starts from 00:00:00:00.
- The format of import clips is not fully compatible with the XDCAM EX format. It may not be possible to play import clips on XDCAM EX devices.

Exporting Clips

You can convert clips created on XDCAM EX devices into MXF format so that they can be used on other XDCAM HD devices, and then export the converted clips.

Note

On Windows Vista systems, clips cannot be exported to the root folder of the system drive (for example, C:\).

1 Display the clip to export.

See “*Selecting Work Media and Work Folders*” (page 13) for more information about how to display the clips.

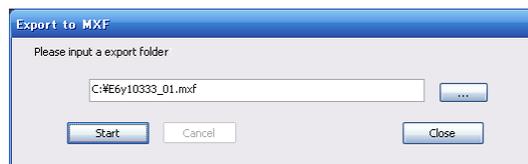
2 Select the clip to export.

To select multiple clips

Click the clips one after the other with the Ctrl key held down.

3 Select Export and then MXF from the File menu.

The Export to MXF dialog appears. The path of the export destination file appears in an edit box. The path consists of the name of the currently selected drive or the currently open folder, followed by an automatically assigned file name.



To change the export destination folder or clip name

Click the edit box to highlight the path, then enter the desired folder or file name. You can also click the “...” button to open a folder browsing window and select the export destination folder in that window. If you selected multiple clips in step 2, specify a folder name.

4 Click Start to start the export.

To cancel the export

Click Cancel and then click Close to close the dialog. When several clips are selected, clips that were exported before you clicked Cancel remain in the export destination media or folder. They are not deleted.

When the export finishes, the dialog closes and the contents of the export destination media or folder appear.

Reasons why an export operation may fail

File export operations may fail for the following reasons. In these cases, an error message appears and the files are not exported.

- You do not have delete/write privileges to the export destination media or folder.
- The export destination media or folder is write protected.
- The source clip is in a format that cannot be converted (bit rate, resolution, etc.).

Previewing Clips

You can preview clips in the Viewer window. Several limitations apply to playback in the Viewer window.

For details, see “*Notes about the Viewer window*” (page 11).

To display clips in the Viewer window

Display the clip that you want to preview in the List View pane of an Info window, and then double click it. Playback of the clip begins in the Viewer window. To stop the playback, click the Stop button. The timecode of the clip’s current position (or a counter value) and the duration of the clip (DUR) appear at the bottom of the screen.

Note

Smooth playback is not possible when previewing clips saved to DVD-R or CD-R discs.

To control the preview

You can use the following methods to control playback and searches in the Viewer window.

- Use the preview control buttons (*see page 12*) in the Viewer window.
- Select Play Control from the Viewer menu, and then select the command you want to use.
- Drag the knob on the position bar.

To select full-screen playback

With a clip displayed in the View screen, double click the title bar of the Viewer window, or select View and then select Full Screen from the Viewer menu.

To return the screen to its original size, double click on the screen or press the Esc key.

To select the audio channels to monitor during previews

Click the Stereo/Monaural button to select stereo or monaural. When monaural is selected, click the 1 or 2 button to select the audio channel to monitor.

Changing the Index Picture of a Clip

You can change index pictures during clip previews.

- 1 Play a clip, and display the frame you want to use as the index picture.
- 2 Click the Index Picture button, or select Edit and then Index Picture from the Viewer menu.

The currently displayed frame becomes the clip's index picture.

Notes

- If you are previewing a clip that is stored on removable media, do not eject the media until the operation finishes.
- Do not power the computer off until the operation finishes.
- On XDCAM EX devices, a frame near the specified frame may be displayed as the index picture, instead of the specified frame itself.
- The frame that you intended may not become the index picture if you press the Index Picture button during fast forward or rewind.

Searching for Clips

If you cannot find the clip you want to play, you can search for it by title, comment, or date of shooting.

- 1 Do one of the following.

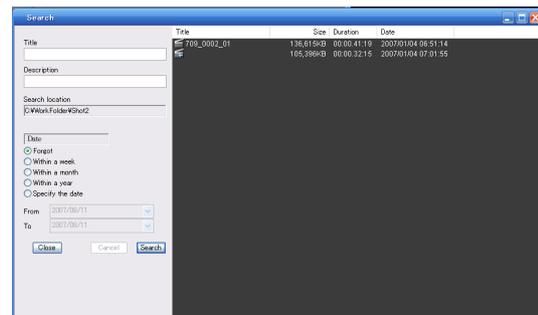
- In the Tree View pane of an Info window, select the media or folder where you think the clip is located.
- Open the Change Root Folder dialog by selecting Change Root Folder from the View menu, or by clicking the Change Root Folder button in the toolbar, and then select the media or folder where you think the clip is located.

A list of the clips in the selected media or folder appears in the List View pane.

- 2 Do one of the following.

- Select Search from the View menu.
- Click the Search button in the toolbar.

The Search dialog appears with the path of the currently selected folder displayed in the Search location box.



- 3 Specify at least one of the following search conditions.

- Title: Enter all or part of a title in the Title box.
- Description: Enter all or part of a comment in the Description box.
- Date: Use the date buttons or list box to specify a range of dates.

- 4 Click Search.

A list of clips meeting the conditions specified in step 3 appears in the Search dialog.

Double click the clip you want to preview to display it in the Viewer window and start playback.

At the same time, a list of the clips stored in the same folder as the preview clip appears in the List View pane of an Info window.

Note

Always observe the following precautions during a search.

- Do not delete a target folder.
- Do not eject the target media.

Viewing Clip Properties

You can display a Properties window to view the properties of a clip.

Notes

- Information in the Properties window does not display properly if the selected font does not support the character code set used in the software operating environment. Before displaying information in the Properties window, select an appropriate font and character code set in the Options dialog.
- Carriage returns may be displayed for some fonts.

See “Option Settings” (page 24) for more information about fonts.

To display the Properties window

- 1 Display the media or folder that contains the clip whose properties you want to check.

See “Selecting Work Media and Work Folders” (page 13) for more information about how to display the media or folder.

- 2 Select the clip you want to check.
- 3 Select Properties from the Edit menu.

The Clip Properties window appears.



Information displayed in the Properties window

The following table lists the information displayed in the Properties window. You can change the Title1, Title2, Description properties.

Item	Description
Title1	Displayed as the clip title in the List View pane. (Unless Title2 has been set, in which case Title2 is displayed.) Title1 can consist of up to 63 alphanumeric characters and symbols (carriage returns not allowed). Valid symbols: Space, -, +, #
Title2	When set, displayed as the clip title in the List View pane. Title2 can be up to 127 bytes in length. Multi-language titles are supported. Titles consisting of alphanumeric characters only can be up to 127 characters in length. UTF-8 encoding is used for multi-language titles. (The number of bytes required to encode UTF-8 characters varies. Normally it is between 1 and 3 bytes per character.)
Description	A free comment about the clip. The comment can be up to 2047 bytes in length. Multi-language comments are supported. Comments consisting of alphanumeric characters only can be up to 2047 characters in length. UTF-8 encoding is used for multi-language comments. (The number of bytes required to encode UTF-8 characters varies. Normally it is between 1 and 3 bytes per character.)
Creator	Information about the creator of the clip. The information can be up to 127 bytes in length. Multi-language information is supported. Information consisting of alphanumeric characters only can be up to 127 characters in length. UTF-8 encoding is used for multi-language information. (The number of bytes required to encode UTF-8 characters varies. Normally it is between 1 and 3 bytes per character.)
Status	"OK" is displayed when the clip status is OK. Nothing is displayed when the status is anything else.
Creation Date	Date and time when the clip was created.
Last Update	Date of the most recent modification to the clip. This date is updated whenever the clip is copied, moved, or grouped, and when its title, description, or index picture is changed.
Recording Mode	Operating mode of the XDCAM EX device when it recorded the clip. Normal: Normal recording mode Interval Rec: Interval Recording mode Frame Rec: Frame Recording mode Slow&QuickMotion: Slow & Quick Motion mode <i>Refer to the documentation of your XDCAM EX device for more information about the recording modes.</i>
Duration	Duration of the clip in hours:minutes:seconds:frame format.
Video Format	Detailed information about the video format.
Audio Format	Detailed information about the audio format.
Media Spanning	"Yes" appears for split clips, and "No" appears for clips which are not split.
Device	Information about the recording device.

To save changes to the displayed content

Click OK to save the changes.

Click Cancel to discard the changes.

Folder and Media Operations

Folder and media precautions

Always observe the following precautions during processing of folder and media operations.

- Do not power off the computer or media drive before the operation completes.
- Do not eject the media before the operation completes.

Clip Folders for XDCAM EX Devices

Clips that can be used by XDCAM EX devices are stored together with a BPAV folder (*see page 24*). (This folder does not appear in the Info windows, but it can be seen in Windows Explorer.)

Whenever you copy or move clips with this application, the BPAV folder is copied or moved along with the clips. You cannot work with clips separately from the BPAV folder.

Note

Simultaneous access to files may not be possible when you attempt to access the same folder at the same time from several computers over a network connection.

Creating Folders

- 1 Select the media or open the folder where you want to create the folder, making it the root folder of the Tree View pane.

See “Selecting Work Media and Work Folders” (page 13) for more information about how to select media and open folders.

- 2 With the root folder having the focus, select Create New Folder from the File menu, or click the New Folder button in the toolbar.

A new folder is created on the selected media or in the selected folder.

Reasons why folder creation may fail

Folder creation operations may fail for the following reasons. In these cases, an error message appears and the folder is not created.

- You do not have write privileges for the selected media or folder.
- The selected media or folder is write protected.

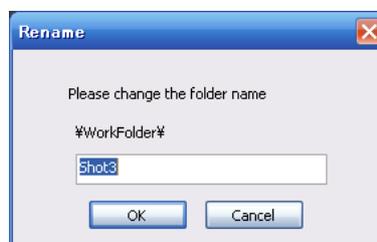
Notes

- Folders cannot be created with My Computer selected as the root folder.
- Folders cannot be created when this is not allowed by the computer file system.
- Immediately after they are created, new folders are normal folders. But when even one clip is copied or moved to the new folder, the folder is formatted as an XDCAM EX work folder. (The required subfolders and metadata files are created automatically.)
- The name “BPAV” is reserved and cannot be specified.
- Characters forbidden by the operating system and the \$ character cannot be used in folder names.

To rename a folder

- 1 Select the newly created folder, and then select Rename from the File menu.

The Rename dialog appears.



- 2 Enter the new name in the edit box (up to 80 alphanumeric characters and symbols).

Notes

- The name “BPAV” is reserved and cannot be specified.
- Characters forbidden by the operating system and the \$ character cannot be used in folder names.

- 3 Click OK.

To back up folders

- 1 Select the folder that you want to back up.

See “Selecting Work Media and Work Folders” (page 13) for more information about how to select the folder.

- 2 Select Open Containing Folder from the File menu. Windows Explorer appears.
- 3 Perform your backup operations in Explorer.

When a folder is too large to save to your backup media

You can split the folder into smaller folders, which can be saved on separate discs. Split folders can later be combined to restore the original large folder.

See “*Splitting Folders*” (page 22) and “*Combining Folders*” (page 23) for more information.

Deleting Folders

- 1 Select the folder to delete.

See “*Selecting Work Media and Work Folders*” (page 13) for more information about how to select the folder.

- 2 Press the Delete key, or select Delete from the Edit menu.

Reasons why a folder deletion may fail

Folder deletion operations may fail for the following reasons. In these cases, an error message appears and folder is not deleted.

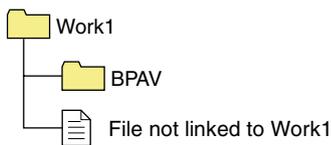
- You do not have delete/write privileges for the selected folder.
- The selected folder is write protected.
- Clips or other folders exist beneath the folder.¹⁾

Notes

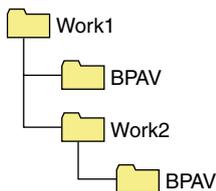
- Be careful when deleting folders, because all data in the folder is deleted.
- Deletions cannot be undone after they finish.

1) The following examples show two situations in which a folder (Work1) cannot be deleted.

When there is a file that is not linked to Work1



When there is another folder (Work2)



To delete folder Work1, the file which is not linked to Work1 and folder Work2 must be deleted beforehand.

Splitting Folders

You can split large folders into smaller folders. This allows you to back up all of the clips in a large folder to media that is not large enough to save the entire folder without splitting.

For example, you can split an 8 GB folder into two 4 GB folders in order to save them on 4 GB DVD-R media. Note that individual files in the large folder are not split.

- 1 Select the folder to split.

See “*Selecting Work Media and Work Folders*” (page 13) for more information about how to select the folder.

- 2 Select Split Folder in the Edit menu, or click the Split Folder button in the toolbar.

The Split Folder dialog appears.



Note

The individual files in split folders are not split. Clips are assigned to the split folders in such a way that the split folders have the specified size. This means that it is not possible to specify a split folder size smaller than the largest file in the original folder. It is also not possible to specify a split folder size smaller than 4 GB.

- 3 Select the size of the split folders from the drop-down list.

- 4 Click Start.

The folder is split into the minimum number of folders that will produce the specified folder size, and clips are assigned to the smaller folders. The folders produced as a result of the split have the same name as the original folder, followed by serial numbers.

Notes

- Once it starts, a split operation cannot be canceled before it finishes.
- Split clips may be assigned to different folders. If you would prefer that split clips be assigned to other folders, you can move them manually after the folder split.

Combining Folders

You can combine specified folders into another folder. This allows you to restore the original folder from split folders.

- 1 Select the destination folder, into which the other folders will be combined.

See “*Selecting Work Media and Work Folders*” (page 13) for more information about how to display the clip.

- 2 Select Combine from the Edit menu.

The Combine dialog appears.



- 3 Check the check boxes of the folders that you want to combine into the folder selected in step 1. Check the “Delete folders after combine” check box if you want to delete the combined folders after the combine.

Note

The combined folders are not deleted when:

- They contain other folders.
- You do not have delete/write privileges to the original folders.
- The folders are write protected.

- 4 Click Start.

The folders selected in step 3 are combined into the destination folder specified in step 1. The clips in all of the folders are gathered into the destination folder. If any of the clips are split clips, they are automatically grouped, allowing them to be handled as a single clip.

Reasons why a folder combine operation may fail

Folder combine operations may fail for the following reasons. In these cases, an error message appears and the combine is not executed.

- There is not enough free capacity in the combine destination folder.

- You do not have write privileges to the source or destination folders.
- The source or destination folders are write protected.
- Multiple instances of the same clip exist.

Copying All the Clips in Media or Folders

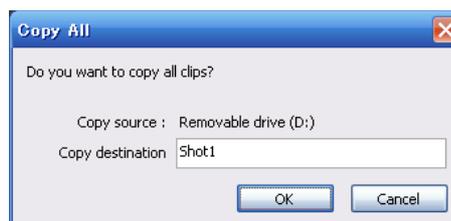
- 1 In one of the Info windows, select a copy source media or folder.

See “*Selecting Work Media and Work Folders*” (page 13) for more information about how to select media and open folders.

- 2 In the other Info window, select a copy destination media or folder.

- 3 Activate the copy source Info window, and select Copy All from the Edit menu or click the Copy All button in the toolbar.

The Copy All Clips dialog appears.



- 4 Check the copy source and copy destination, and then click OK to execute the copy or Cancel to cancel it.

To change the copy destination

Click the Copy destination: box to highlight it, and enter a folder name as the new copy destination.

When the copying starts, a progress dialog appears to display the status of the copy task.

To cancel the copy

Click Cancel in the progress dialog.

Reasons why a copy operation may fail

Copy operations may fail for the following reasons. In these cases, an error message appears and the copy is not executed.

- There is not enough free capacity at the copy destination.
- A clip with the same name as one of the copied clips already exists at the copy destination. Even if the titles are different, clips are recognized as the same clip if they share the same ID (UMID).
- You do not have delete/write privileges to the source or destination media or folders.

Appendix

Usage Notes

Recording format

This application supports one recording format only – the format specified for XDCAM EX devices. This format has the following specifications.

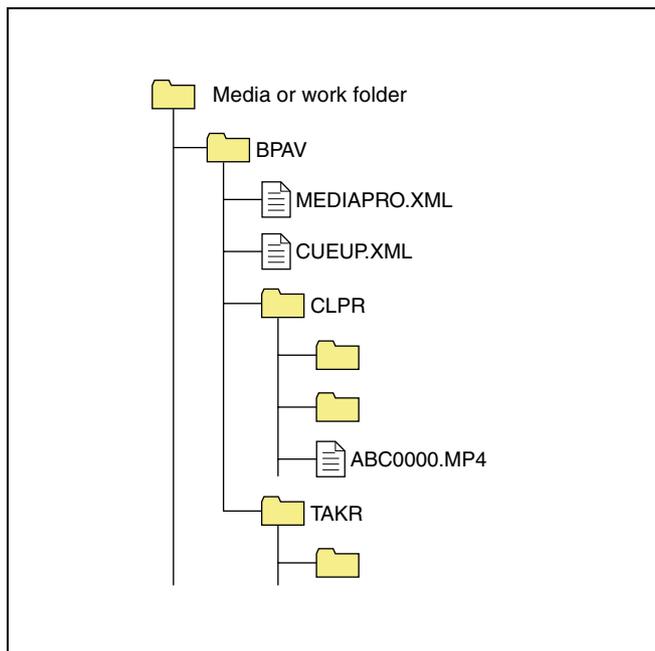
- Folder names and the folder configuration are as shown in the following figure.
- Files contain link information pertaining to links between files and folders.

Note

Do not use tools that do not support the XDCAM EX format to edit, delete, move, or rename the files and folders used by this application. Unless the format specifications are observed, files can become unreadable by XDCAM EX devices and by this application.

Recording folders

The configuration of video and metadata folders is as shown in the following figure. In the XDCAM EX format, the data beneath the BPAV folder is handled as a single set of data.



- One BPAV folder exists when a work folder is opened in Explorer.
- To copy and backup your data, select the folders beneath the BPAV folder.

- When a work folder is selected in a Tree View pane of this application, a list of clips registered in the BPAV folder appears in the corresponding List View pane. AV data is saved in the folders beneath the CLPR folder.
- On the media used by XDCAM EX devices, the BPAV folder is created beneath the root folder of the media.
- MP4 files can be copied to beneath the CLPR folder. When this is done, they appear in a List View pane as unregistered MP4 clips when the BPAV folder to which the CLPR folder belongs is displayed in Thumbnails View or List View mode.
- The unregistered clips of MP4 files beneath the CLPR folder can be imported. When this is done, new folders are created beneath the CLPR folder, and the MP4 files are moved to those folders.
- The unregistered clips of MP4 files can also be imported from other folders. When this is done, new folders are created beneath the CLPR folder, and the imported clips are copied to those folders. Folder names are assigned automatically.
- Up to 600 clips can be saved in one recording folder.

Note

Folder and file names are linked to metadata files. Do not change them.

Option Settings

The Options dialog allows you to configure the options of this application.

To open the Options dialog, select Options and then select Manage from the Tools menu.



Date Format: The buttons select the display format.

YYYY represents the calendar year, MM the month, and DD the day.

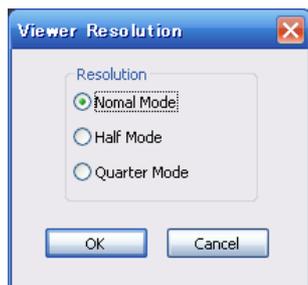
You can also specify a delimiter character for use between years, months, and days by selecting it from the Pause Character list box. The date below the list box shows the current date formatted with the selected character.

Multi Language: Click the Font button to open a font selection dialog, which selects the display font and character code set for titles and comments.

Display Language: Selects English or Japanese as the display font for this application.

Resolution Settings

Select Options and then Resolution in the Tools menu to open the dialog that allows you to set the playback resolution.



To change the playback resolution

Select the resolution from among Normal Mode, Half Mode, and Quarter Mode.

Video quality is lower at Half Mode, and Quarter Mode, but playback response is better, because these resolutions lower the burden on the decoder. These resolutions are recommended if your computer is not powerful enough to deliver smooth playback at Normal resolution.

Shortcut Key List

This application supports keyboard shortcuts for many operations. The following tables show keyboard shortcuts by menu. In the Operation column, the notation “Ctrl + R”

indicates operations in which one key (in this case the Ctrl key) is held down while pressing another key (in this case the R key).

File menu

Command	Operation	Function	Reference
Rename	F2	Rename the selected folder.	Page 21
Create New Folder	Ctrl + N	Create a new folder in the selected media or folder.	Page 21
Open Containing Folder	Ctrl + E	Start Explorer and open the currently selected folder.	Page 21
Import	Ctrl + M	Import MP4 file (unregistered clip).	Page 16
Export >MXF	Ctrl + G	Convert an XDCAM EX format clip to MXF format, and export it.	Page 17

Edit menu

Command	Operation	Function	Reference
Copy All	Ctrl + Shift + C	Copy all of the clips in the current media or folder.	Page 23
Cut	Ctrl + X	Cut the selected clip.	Page 14
Copy	Ctrl + C	Copy the selected clip.	Page 14
Paste	Ctrl + V	Paste a cut or copied clip.	Page 14 Page 14
Delete	Delete	Delete the selected clip.	Page 15
Properties	Ctrl + I	Open the Properties window of the selected clip.	Page 19
Split	Ctrl + W	Split the selected folder into smaller folders of a specified size.	Page 22
Combine	Ctrl + J	Combine specified folders into another folder.	Page 23

View menu

Command	Operation	Function	Reference
Tree View	Shift + T	Display or hide the Tree View pane.	–
Change Root Folder	Shift + O	Change the root folder of the Tree View pane.	Page 13
Up	Shift + U	Move up to the next-higher folder.	Page 13

Command	Operation	Function	Reference
Thumbnails	Shift + H	Put the List View pane into Thumbnails View mode.	<i>Page 10</i>
List	Shift + L	Put the List View pane into List View mode.	
Details	Shift + D	Put the List View pane into Details View mode.	
Sort by >Title	Ctrl + Shift + N	Sort the clips in the List View pane in ascending or descending order by title.	
Sort by >Size	Ctrl + Shift + S	Sort the clips in the List View pane in ascending or descending order by size.	
Sort by >Duration	Ctrl + Shift + D	Sort the clips in the List View pane in ascending or descending order by duration.	
Sort by >Date	Ctrl + Shift + P	Sort the clips in the List View pane in ascending or descending order by date and time.	
Search	F3	Search for a clip.	<i>Page 18</i>
Refresh	F5	Update the data displayed in the Tree View pane and List View pane with the latest data.	–

Viewer menu

Command	Operation	Function	Reference
Play Control >Play	5 or L	Start play.	<i>Page 12</i>
Play Control >Stop	Space or K	Stop at the current position.	
Play Control >Fast Forward	S	Search in the forward direction (fast forward).	
Play Control >Rewind	A	Search in the forward direction (rewind).	
Play Control >Jump to Head	Q	Move to the first frame of the clip.	
Play Control >Jump to End	W	Move to the last frame of the clip.	
Play Control >Next Frame	4	Step 1 frame forward.	
Play Control >Previous Frame	3	Step 1 frame back.	
View >Full Screen	F11	Display in full-screen mode.	<i>Page 18</i>

Tools menu

Command	Operation	Function	Reference
Options >Manage	Ctrl + O	Open the Options dialog of this application.	<i>Page 24</i>
Options >Resolution	Ctrl + P	Set the playback resolution.	<i>Page 25</i>

This product uses software subject to the GNU Lesser General Public License (LGPL).

Library name: FFMPEG

Thank you for your purchase of this product.
This product uses the following software, which is subject to the LGPL.
You have the right to obtain, modify, and distribute the source code to this software.

FFMPEG

- avcodec-51.dll
- avformat-51.dll
- avutil-49.dll

The source code is contained in the ClipBrowser/SRC folder of the supplied CD-ROM. It may also be downloaded from the following web site.
<http://www.sony.net/Products/Linux/Download/search.html>

Please note that we cannot respond to inquiries regarding the content of the source code.

FFmpeg is a trademark of Fabrice Bellard, originator of the FFmpeg project.

For Mac OS

Settings for using the application on Mac OS

Introduction

Purpose of this manual

This manual explains how to use the XDCAM EX Clip Browsing Software on Mac OS. This manual is intended for users who will use this application to perform file and folder operations. It assumes that readers have a basic familiarity with Mac OS.

Notation for special keys

This manual uses the following notation to indicate special keys.

Symbol	Notation in this manual
⌘	Command
⇧	Shift
⌥	Option
⌘	Control
↵	Return

Overview

The XDCAM EX Clip Browsing Software allows you to work with clips created with XDCAM EX devices. After installing this application on your computer, you can use its intuitive graphical user interface to organize your clips by copying, moving, and deleting them. You can also perform format conversions, preview the clips, and view their metadata.

This application supports data that is compatible with the XDCAM EX format.

Hardware and software requirements

Install this application on a computer meeting the following hardware and software requirements.

Item	Description
OS	OS X 10.4.10 ^{a)}
CPU	Intel Core 2 Duo 1GHz or higher ^{b)}
Memory	1 GB or more recommended

a) Mac OS is a trademark of Apple Inc., registered in the U.S. and other countries.

b) Intel is a registered trademark of Intel Corporation in the United States and other countries. Core is a trademark of Intel Corporation in the United States and other countries.

Installing the Application

Installing from the CD-ROM

- 1 Insert the supplied CD-ROM into the CD-ROM drive of your computer.

The disc icon appears on your desktop.

- 2 Double click the disc icon.

The contents of the CD-ROM appear.

- 3 Double click index.htm.

The cover page appears in your browser.

- 4 Select and click “MAC OS X” from XDCAM EX Clip Browsing Software Installer.

Finder starts and ClipBrowser.pkg appears.



- 5 Double click ClipBrowser.pkg.

The installation screen appears.



- 6 Click Continue.

A license agreement screen appears.

- 7 Click Continue.

The following message appears.

To continue installing the software, you must agree to the terms of the software license agreement.

Click Agree to continue or click Disagree to cancel the installation.

Disagree Agree

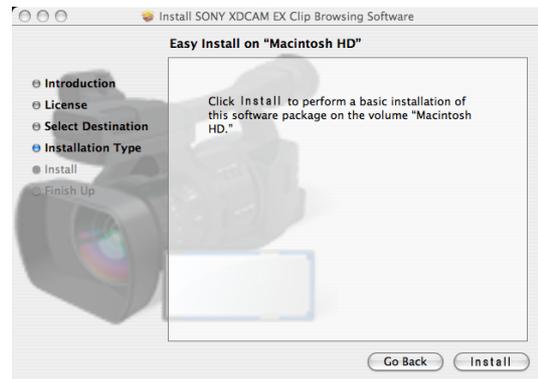
- 8 Click Agree.

A screen appears in which you can select the installation destination.



- 9 Click Continue.

The following screen appears.



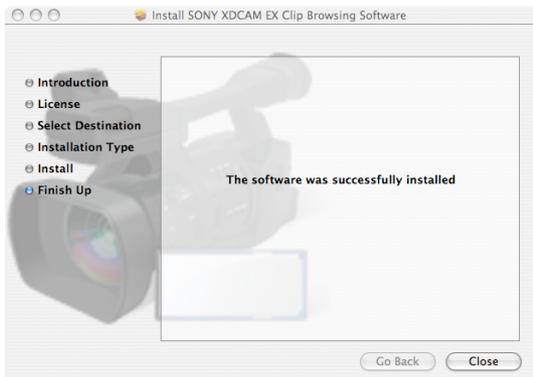
- 10 Click Install.

An authentication screen appears.



- 11 Enter your name and password, and then click OK.

The following screen appears when the installation finishes.



12 Click Close to close the dialog.

To uninstall the application

Move the installation destination folder of the application (default: /Application/XDCAM EX Clip Browser) to the Trash.

Launching and Exiting the Application

See “Installing the Application” (page 30) for more information about how to install the application.

Launching the Application

Use Finder to open the XDCAM EX Clip Browser folder in the Applications folder, and double click XDCAM EX Clip Browser.

The XDCAM EX banner appears, the application starts, and the operating windows (see page 32) appear.

Exiting the Application

Do one of the following.

- Select Quit XDCAM EX Clip Browser from the XDCAM EX Clip Browser menu.
- Click the x button in the upper left of the operating window.

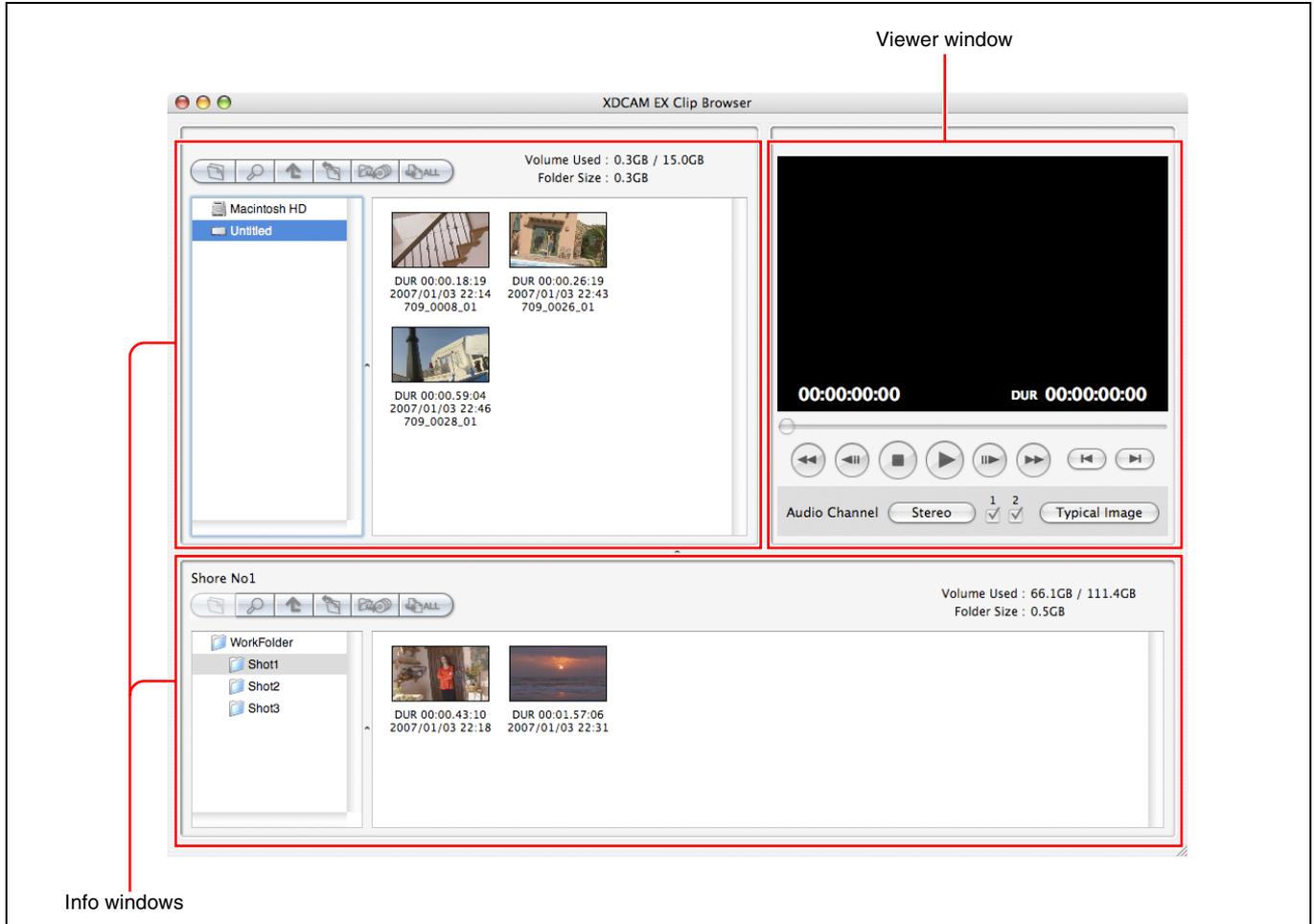
Note

Do not power off the computer while a file operation is still underway. Files may be corrupted. Wait until the operating finishes, or cancel the operation, before powering off.

Names and Functions of Parts

Operating Window Configuration

The following figure shows the default configuration of the operating windows.



You can change the position and size of the window.

To return window position and size to the default

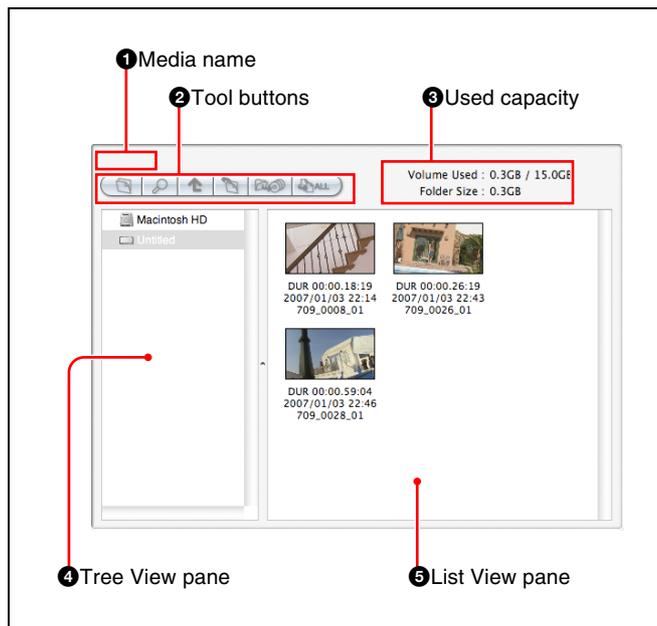
Select Default Window Positions from the View menu.

Notes

- The windows cannot be moved.
- Windows cannot be closed individually.

Info Windows

These windows are where you manage clips and folders, and view clip metadata.



1 Media name

Displays the media name assigned to the media or folder.

2 Tool buttons

Contains tool buttons for operations on clips and folders.

Tool buttons		Function	Reference
Icon	Name		
	New Folder	Creates a new folder.	Page 42
	Search	Searches for a clip.	Page 39
	Up	Moves up to the next folder.	Page 35
	Change Root Folder	Changes the root folder in the Tree View pane.	Page 35
	Split Folder	Splits a folder.	Page 43
	Copy All	Copy all of the clips in the current media or folder.	Page 44

3 Used capacity

Displays the capacity used by clips and their related metadata in the currently selected media or folder.

4 Tree View pane

Displays two levels of the tree structure of media or folders. A folder in the lower level can be double clicked

to make it the root folder and display the level beneath that folder.

5 List View pane

Displays the clips in the media or folder that is selected in the Tree View pane. Clips are displayed as thumbnail images. Icons are shown for clips without thumbnails. It also displays the title of each clip and the date and time when it was shot.

Thumbnail display example	Description
	Normal clip
	Clip with OK status (as set on the XDCAM EX device) ^{a)}
	One of the smaller clips into which a longer recording has been split (a frame is displayed around it) ^{b)}
	MP4 file, imported clip
	MP4 file, unregistered clip (clip that has not been imported)
	Abnormal clip ^{c) d)}

a) Clips with OK status can be moved or deleted by this application.

b) An XDCAM EX device automatically saves video that exceeds 4 GB in size as multiple clips. These clips are parts of the complete recording and can be saved on multiple media. All of the original recorded video is not played back when a split clip is played back.

c) A clip that cannot be played or displayed properly by this application. The file may be corrupt, file links may be broken or changed, required files may be missing, or thumbnail creation may have failed.

d) When another application is using the clip file.

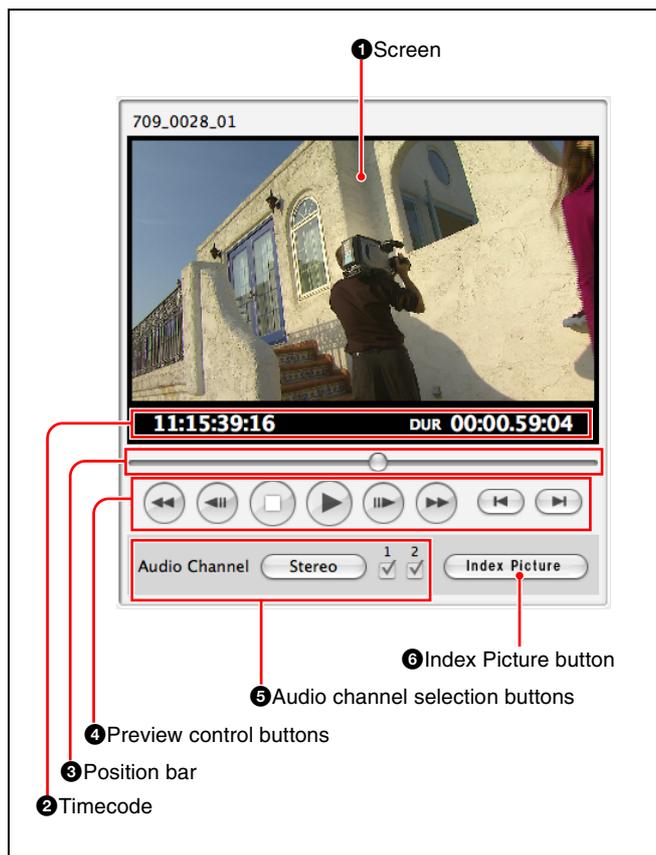
Viewer Window

This window is where you preview clips and change clip index picture thumbnails.

Notes about the Viewer window

Playback in this window is preview playback. Note the following points.

- Depending on the performance of your computer and the processing load, dropped frames may occur and timecode may differ from the actual values.
- When the playback clip is defective, video breakup may occur and the playback may freeze.
- All of the original recorded video is not played back when a split clip is played back.
- It may not be possible to play clips created on devices other than XDCAM EX devices.
- Improper playback may occur if the screen properties of your computer are changed during playback. If this occurs, restart the application.
- The video may not appear on both monitors when you try to display it on the computer's monitor and an external monitor, for example when using a laptop computer.



1 Screen

Displays the playback video.

2 Timecode

Displays the timecode of the position bar and the duration of the clip. Counter values are displayed when no timecode is recorded in the clip.

Notes

- The counter operates at 25 fps for unregistered clips.
- The count for import clips starts at 00:00:00:00.

3 Position bar

Displays the current position in the clip. You can move to any position in the clip by dragging the knob or by clicking directly on the position bar.

4 Preview control buttons

These are buttons for controlling clip previews.

Button	Function
	Start play. Lights in green during play.
	Stop at the current position.
	Search forward from the current position (fast forward).
	Search back from the current position (rewind).
	Go to the last frame of the clip.
	Go to the first frame of the clip.
	Step back 1 frame.
	Step forward 1 frame.

5 Audio channel selection buttons

The Stereo/Monaural button switches between stereo and monaural. When monaural is selected, the 1 and 2 buttons select the audio channel to monitor.

6 Index Picture button

Sets the index picture of the current preview clip to a still image of the currently displayed frame.

Selecting Work Media and Work Folders

This section explains how to select the media or folder that contains the clips you want to work with. There are two ways to select them: by using the Tree View pane of an Info window, and by using the Change Root Folder dialog.

Media

In this manual, “media” refers to the following media types.

- SxS memory cards
- USB memory
- Internal hard disks
- Externally connected hard disks
- CD-R discs
- DVD-R discs
- Blu-ray discs

To select in the Tree View pane

- 1 In the Tree View pane of an Info window, double click the media or folder that you want to select.

The level beneath the double clicked media or folder appears. The Tree View pane displays two levels, consisting of the media or folder itself and the next lower level.

When there are clips saved directly to the top level of the media, they appear in the List View pane.

- 2 Double click a lower-level folder.

The double-clicked folder becomes the root folder, and its lower-level folders appear.

To return to the next-higher level

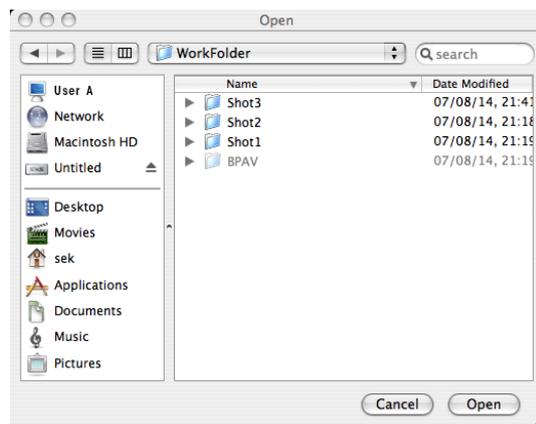
Select Up from the View menu, or click the Up button.

- 3 Repeat step 2 as required.

The contents of the selected folder appear in the List View pane.

To select in the Change Root Folder dialog

- 1 Open the Change Root Folder dialog by selecting Change Root Folder from the View menu, or click the Change Root Folder button.



- 2 In the Tree View pane of the dialog, select a media item or folder.

- 3 Click Open.

The Change Root Folder dialog closes, and the contents of the selected media or folder appear in the List View pane.

Note

When you select a media item, a message may appear saying that salvage is required, and that you should salvage the media on the device that recorded it. This message appears when the data is defective, typically because the XDCAM EX device was powered off during recording, or because the media was ejected too soon. If this message appears, you should reinsert the media into the XDCAM EX device and attempt to salvage it as soon as possible. The data may become unrecoverable if you continue to work with it without salvaging it.

Clip Operations

Clip operation precautions

Always observe the following precautions during processing of clip operations.

- Do not power off the computer or media drive before the operation completes.
- Do not use Finder or another file management tool to delete folders that contain the clips being processed.
- Do not eject the media before the operation completes.
- Locked files and folders cannot be moved, modified, or deleted.

Copying Clips

You can duplicate clips on your media or computer, and copy clips between media and the computer.

Grouping split clips by gathering them into one place

XDCAM EX devices automatically save video that exceeds 4 GB in size as multiple clips. If you collect these clips into one media or folder, they are automatically grouped so that you can handle them as a single clip.

See “*Grouping Split Clips*” (page 38) for more information.

- 1 Display the clips that you want to copy in one of the Info windows.

See “*Selecting Work Media and Work Folders*” (page 35) for more information about how to display the clips.

- 2 In the other Info window, select the copy destination media or folder.

If you want to copy the clips to a new folder

Create a new folder in the copy destination media or folder.

See “*Creating Folders*” (page 42) for more information about how to create folders.

- 3 Select the clips to copy in the copy source window.

To select multiple clips

Click the clips one after the other with the Shift key held down.

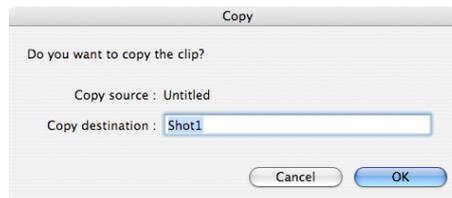
Note

Unregistered clips and abnormal clips can be selected, but they are not copied.

- 4 Do one of the following.

- Drag the selected clips and drop them in the List View pane of the Info window of the copy destination media or folder.
- Select Copy from the Edit menu. Then click the Info window of the copy destination media or folder and select Paste from the Edit menu.

A message appears asking if you want to execute the copy.



- 5 Check the copy source and copy destination, and then click OK to execute the copy or Cancel to cancel it.

To change the copy destination

Click the Copy destination: box to highlight it, and then enter the name of the folder that you want to use as the copy destination.

A dialog illustrating the progress of the copying appears when the copying starts.

Note

Once it has been completed, a copy cannot be undone.

To cancel the copy operation

Click Cancel in the progress dialog.

Reasons why a copy operation may fail

Copy operations may fail for the following reasons. In these cases, an error message appears and the copy is not executed.

- There is not enough free capacity at the copy destination.
- A clip with the same name as one of the selected clips already exists at the copy destination. Even if the titles are different, clips are recognized as the same clip if they share the same ID (UMID).
- You do not have delete/write privileges to the destination media or folders.
- The destination media or folder is write protected.

Moving Clips

You can move clips on your media or computer, and move clips between media and the computer.

Note

Clips with OK status can be moved by this application.

Grouping split clips by gathering them into one place

XDCAM EX devices automatically save video that exceeds 4 GB in size as multiple clips. If you collect these clips into one media or folder, they are automatically grouped so that you can handle them as a single clip.

See “Grouping Split Clips” (page 38) for more information.

- 1 Display the clips that you want to move in one of the Info windows.

See “Selecting Work Media and Work Folders” (page 35) for more information about how to display the clips.

- 2 In the other Info window, select the move destination media or folder.

If you want to move the clips to a new folder

Create a new folder in the move destination media or folder.

See “Creating Folders” (page 42) for more information about how to create folders.

- 3 Select the clips to move in the move source window.

To select multiple clips

Click the clips one after the other with the Shift key held down.

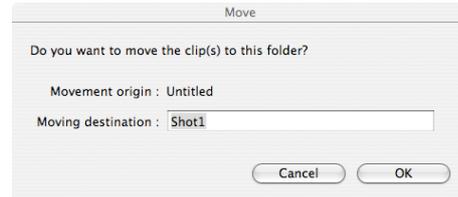
Note

Unregistered clips and abnormal clips can be selected, but they cannot be moved.

- 4 Do one of the following.

- Drag the selected clips with the Control key held down and drop them in the List View pane of the Info window of the move destination media or folder.
- Select Cut from the Edit menu. Then click the Info window of the move destination media or folder and select Paste from the Edit menu.

A message appears asking if you want to execute the move.



- 5 Check the move origin and move destination, and then click OK to execute the move or Cancel to cancel it.

To change the move destination

Click the Move destination: box to highlight it, and then enter the name of the folder that you want to use as the move destination.

A dialog illustrating the progress of the move appears when the move starts.

Notes

- Once it has been completed, a move cannot be undone.
- Do not exit this application during the move. Doing so can break the links between clips and their metadata. The link information for split clips can be lost, causing them to become abnormal clips. We recommend that you move important clips by copying them and then deleting the copy sources.

To cancel the move operation

Click Cancel in the progress dialog.

Reasons why a move operation may fail

Move operations may fail for the following reasons. In these cases, an error message appears and the move is not executed.

- There is not enough free capacity at the move destination.
- A clip with the same name as one of the selected clips already exists at the move destination. Even if the titles are different, clips are recognized as the same clip if they share the same ID (UMID).
- You do not have delete/write privileges to the source or destination media or folder.
- The source or destination media or folder is write protected.

Deleting Clips

Note

Clips with OK status can be deleted by this application.

- 1 Display the clips to delete.

See “Selecting Work Media and Work Folders” (page 35) for more information about how to display the clips.

- 2 Select the clips to delete by clicking them.

To select multiple clips

Click the clips one after the other with the Shift key held down.

- 3 Do one of the following.

- Press the Delete key with the Command key held down.
- Select Delete from the Edit menu.

A message appears asking if you are sure you want to delete the clips.

- 4 Click OK to execute the deletion, or click Cancel to cancel it.

Note

It is not possible to undo the deletion once it has been completed.

Reasons why a delete operation may fail

Deletion operations may fail for the following reasons. In these cases, an error message appears and the deletion is not executed.

- You do not have delete/write privileges to media or folder where the clips are stored.
- The media or folder where the clips are stored is write protected.

Grouping Split Clips

When you have split clips created as a result of an extended recording session, and those clips are saved on separate media, you can group those clips by collecting them in a single location. Grouped clips can be handled as a single clip. You can collect the split clips by copying them, by moving them, or by combining split folders.

See “Copying Clips” (page 36), “Moving Clips” (page 36), and “Combining Folders” (page 44) for more information about the operations.

Notes

- Split clips which are not continuous along the time axis are not grouped.
- Unregistered clips and abnormal clips are not grouped.
- Clips with altered UMIDs are not grouped. Grouping is performed on the basis of the UMIDs of split clips, and not on the basis of their file names.

Importing Clips

You can import MP4 files (unregistered clips) and register them as clips that can be handled by XDCAM EX devices.

- 1 Select the media or folder that contains the MP4 files to be imported.

See “Selecting Work Media and Work Folders” (page 35) for more information about how to select media and folders.

- 2 Do one of the following.

Select unregistered clips in the List View pane

Select unregistered clips (MP4 files) in the List View pane, and then select Import from the File menu.

The Import dialog opens with the selected clips already entered in the import list.

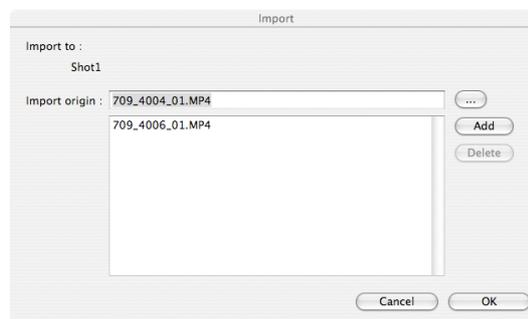
Proceed to step 6.

Select unregistered clips in the Import dialog

Select Import from the File menu.

The Import dialog opens with no clips entered in the import list.

Proceed to step 3.



- 3 Click the “...” button to open a folder browsing window and specify the MP4 file to import in that window.

The specified file appears in the Import origin edit box.

Note

Files over 4 GB in size cannot be imported.

- 4 Click the Add button to add the file to the list.
- 5 Repeat steps 3 and 4 until you have selected all the files you want to import.

To delete a file from the list

Select the file to delete and click Delete.

6 Click Start to start the import.

When the import finishes, the unregistered clips are converted to normal clips.

A  mark is displayed for imported clips.

Reasons why an import operation may fail

File import operations may fail for the following reasons. In these cases, an error message appears and the files are not imported.

- You do not have delete/write privileges for the import destination media or folder.
- The import destination media or folder is write protected.

Notes

- The properties of import clips are set automatically.
- The timecode of import clips starts from 00:00:00:00.
- The format of import clips is not fully compatible with the XDCAM EX format. It may not be possible to play import clips on XDCAM EX devices.

Previewing Clips

You can preview clips in the Viewer window. Several limitations apply to playback in the Viewer window.

For details, see “Notes about the Viewer window” (page 34).

To display clips in the Viewer window

Display the clip that you want to preview in the List View pane of an Info window, and then double click it. Playback of the clip begins in the Viewer window. To stop the playback, click the Stop button. The timecode of the clip’s current position (or a counter value) and the duration of the clip (DUR) appear at the bottom of the screen.

Note

Smooth playback is not possible when previewing clips saved to DVD-R or CD-R discs.

To control the preview

You can use the following methods to control playback and searches in the Viewer window.

- Use the preview control buttons (see page 34) in the Viewer window.
- Select Play Control from the Viewer menu, and then select the command you want to use.
- Drag the knob on the position bar.

To select full-screen playback

With a clip displayed in the View screen, select View and then select Full Screen from the Viewer menu.

To return the screen to its original size, double click on the screen or press the Esc key.

To select the audio channels to monitor during previews

Click the Stereo/Monaural button to select stereo or monaural. When monaural is selected, click the 1 or 2 button to select the audio channel to monitor.

Changing the Index Picture of a Clip

You can change index pictures during clip previews.

- 1 Play a clip, and display the frame you want to use as the index picture.
- 2 Click the Index Picture button, or select Edit and then Index Picture from the Viewer menu.

The currently displayed frame becomes the clip’s index picture.

Notes

- If you are previewing a clip that is stored on removable media, do not eject the media until the operation finishes.
- Do not power the computer off until the operation finishes.
- On XDCAM EX devices, a frame near the specified frame may be displayed as the index picture, instead of the specified frame itself.
- The frame that you intended may not become the index picture if you press the Index Picture button during fast forward or rewind.

Searching for Clips

If you cannot find the clip you want to play, you can search for it by title, comment, or date of shooting.

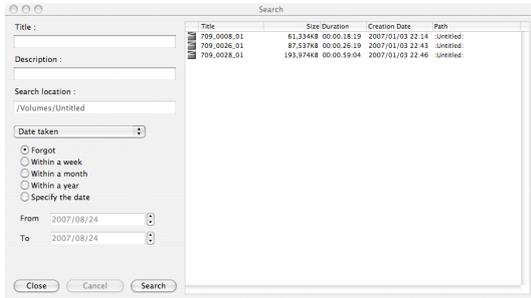
- 1 Do one of the following.
 - In the Tree View pane of an Info window, select the media or folder where you think the clip is located.
 - Open the Change Root Folder dialog by selecting Change Root Folder from the View menu, or by clicking the Change Root Folder button, and then select the media or folder where you think the clip is located.

A list of the clips in the selected media or folder appears in the List View pane.

2 Do one of the following.

- Select Search from the View menu.
- Click the Search button.

The Search dialog appears with the path of the currently selected folder displayed in the Search location box.



3 Specify at least one of the following search conditions.

- Title: Enter all or part of a title in the Title box.
- Description: Enter all or part of a comment in the Description box.
- Date: Use the date buttons or list box to specify a range of dates.

4 Click Search.

A list of clips meeting the conditions specified in step 3 appears in the Search dialog.

Double click the clip you want to preview to display it in the Viewer window and start playback.

At the same time, a list of the clips stored in the same folder as the preview clip appears in the List View pane of an Info window.

Note

Always observe the following precautions during a search.

- Do not delete a target folder.
- Do not eject the target media.

Viewing Clip Properties

You can display a Properties window to view the properties of a clip.

Note

Information in the Properties window does not display properly if the selected font does not support the character code set used in the software operating environment. Select an appropriate font before displaying information in the Properties window.

To display the Properties window

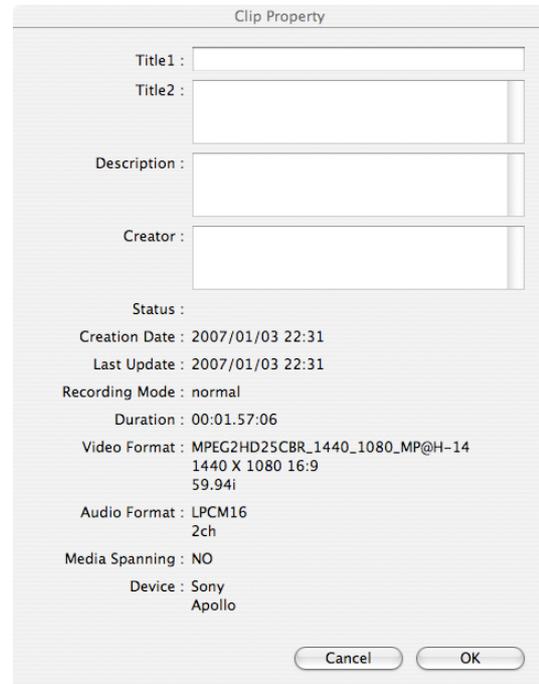
1 Display the media or folder that contains the clip whose properties you want to check.

See “Selecting Work Media and Work Folders” (page 35) for more information about how to display the media or folder.

2 Select the clip you want to check.

3 Select Properties from the Edit menu.

The Clip Properties window appears.



Information displayed in the Properties window

The following table lists the information displayed in the Properties window. You can change the Title1, Title2, Description properties.

Item	Description
Title1	Displayed as the clip title in the List View pane. (Unless Title2 has been set, in which case Title2 is displayed.) Title1 can consist of up to 63 alphanumeric characters and symbols (carriage returns not allowed). Valid symbols: Space, -, +, #
Title2	When set, displayed as the clip title in the List View pane. Title2 can be up to 127 bytes in length. Multi-language titles are supported. Titles consisting of alphanumeric characters only can be up to 127 characters in length. UTF-8 encoding is used for multi-language titles. (The number of bytes required to encode UTF-8 characters varies. Normally it is between 1 and 3 bytes per character.)
Description	A free comment about the clip. The comment can be up to 2047 bytes in length. Multi-language comments are supported. Comments consisting of alphanumeric characters only can be up to 2047 characters in length. UTF-8 encoding is used for multi-language comments. (The number of bytes required to encode UTF-8 characters varies. Normally it is between 1 and 3 bytes per character.)
Creator	Information about the creator of the clip. The information can be up to 127 bytes in length. Multi-language information is supported. Information consisting of alphanumeric characters only can be up to 127 characters in length. UTF-8 encoding is used for multi-language information. (The number of bytes required to encode UTF-8 characters varies. Normally it is between 1 and 3 bytes per character.)
Status	"OK" is displayed when the clip status is OK. Nothing is displayed when the status is anything else.
Creation Date	Date and time when the clip was created.
Last Update	Date of the most recent modification to the clip. This date is updated whenever the clip is copied, moved, or grouped, and when its title, description, or index picture is changed.
Recording Mode	Operating mode of the XDCAM EX device when it recorded the clip. Normal: Normal recording mode Interval Rec: Interval Recording mode Frame Rec: Frame Recording mode Slow&QuickMotion: Slow & Quick Motion mode <i>Refer to the documentation of your XDCAM EX device for more information about the recording modes.</i>
Duration	Duration of the clip in hours:minutes:seconds:frame format.
Video Format	Detailed information about the video format.
Audio Format	Detailed information about the audio format.
Media Spanning	"Yes" appears for split clips, and "No" appears for clips which are not split.
Device	Information about the recording device.

To save changes to the displayed content

Click OK to save the changes.

Click Cancel to discard the changes.

Folder and Media Operations

Folder and media precautions

Always observe the following precautions during processing of folder and media operations.

- Do not power off the computer or media drive before the operation completes.
- Do not eject the media before the operation completes.

Clip Folders for XDCAM EX Devices

Clips that can be used by XDCAM EX devices are stored together with a BPAV folder (*see page 45*). (This folder does not appear in the Info windows, but it can be seen in Finder.)

Whenever you copy or move clips with this application, the BPAV folder is copied or moved along with the clips. You cannot work with clips separately from the BPAV folder.

Note

Simultaneous access to files may not be possible when you attempt to access the same folder at the same time from several computers over a network connection.

Creating Folders

- 1 Select the media or open the folder where you want to create the folder, making it the root folder of the Tree View pane.

See “Selecting Work Media and Work Folders” (page 35) for more information about how to select media and open folders.

- 2 With the root folder having the focus, select Create New Folder from the File menu, or click the New Folder button.

A new folder is created on the selected media or in the selected folder.

Reasons why folder creation may fail

Folder creation operations may fail for the following reasons. In these cases, an error message appears and the folder is not created.

- You do not have write privileges for the selected media or folder.
- The selected media or folder is write protected.

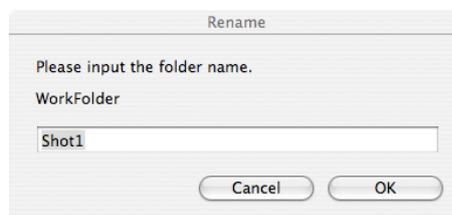
Notes

- Folders cannot be created when this is not allowed by the computer file system.
- Immediately after they are created, new folders are normal folders. But when even one clip is copied or moved to the new folder, the folder is formatted as an XDCAM EX work folder. (The required subfolders and metadata files are created automatically.)
- The name “BPAV” is reserved and cannot be specified.
- Characters forbidden by the operating system cannot be used in folder names.

To rename a folder

- 1 Select the newly created folder, and then select Rename from the File menu.

The Rename dialog appears.



- 2 Enter the new name in the edit box (up to 80 alphanumeric characters and symbols).

Notes

- The name “BPAV” is reserved and cannot be specified.
- Characters forbidden by the operating system cannot be used in folder names.

- 3 Click OK.

To back up folders

- 1 Select the folder that you want to back up.

See “Selecting Work Media and Work Folders” (page 35) for more information about how to select the folder.

- 2 Select Open Containing Folder from the File menu. Finder appears.
- 3 Perform your backup operations in Finder.

When a folder is too large to save to your backup media

You can split the folder into smaller folders, which can be saved on separate discs. Split folders can later be combined to restore the original large folder.

See “Splitting Folders” (page 43) and “Combining Folders” (page 44) for more information.

Deleting Folders

- 1 Select the folder to delete.

See “Selecting Work Media and Work Folders” (page 35) for more information about how to select the folder.

- 2 Press the Delete key with the Command key held down, or select Delete from the Edit menu.

Reasons why a folder deletion may fail

Folder deletion operations may fail for the following reasons. In these cases, an error message appears and folder is not deleted.

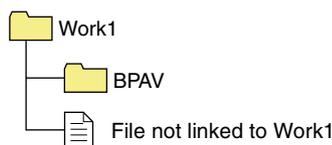
- You do not have delete/write privileges for the selected folder.
- The selected folder is write protected.
- Clips or other folders exist beneath the folder.¹⁾

Notes

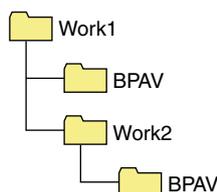
- Be careful when deleting folders, because all data in the folder is deleted.
- Deletions cannot be undone after they finish.

1) The following examples show two situations in which a folder (Work1) cannot be deleted.

When there is a file that is not linked to Work1



When there is another folder (Work2)



To delete folder Work1, the file which is not linked to Work1 and folder Work2 must be deleted beforehand.

Splitting Folders

You can split large folders into smaller folders. This allows you to back up all of the clips in a large folder to media that is not large enough to save the entire folder without splitting.

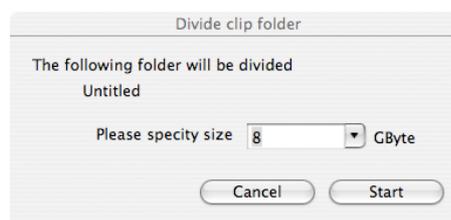
For example, you can split an 8 GB folder into two 4 GB folders in order to save them on 4 GB DVD-R media. Note that individual files in the large folder are not split.

- 1 Select the folder to split.

See “Selecting Work Media and Work Folders” (page 35) for more information about how to select the folder.

- 2 Select Split Folder in the Edit menu, or click the Split Folder button.

The Split Folder dialog appears.



Note

The individual files in split folders are not split. Clips are assigned to the split folders in such a way that the split folders have the specified size. This means that it is not possible to specify a split folder size smaller than the largest file in the original folder. It is also not possible to specify a split folder size smaller than 4 GB.

- 3 Select the size of the split folders from the drop-down list.

- 4 Click Start.

The folder is split into the minimum number of folders that will produce the specified folder size, and clips are assigned to the smaller folders. The folders produced as a result of the split have the same name as the original folder, followed by serial numbers.

Notes

- Once it starts, a split operation cannot be canceled before it finishes.
- Split clips may be assigned to different folders. If you would prefer that split clips be assigned to other folders, you can move them manually after the folder split.

Combining Folders

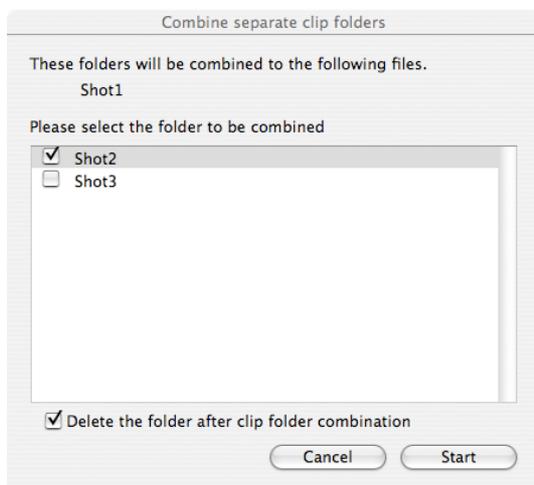
You can combine specified folders into another folder. This allows you to restore the original folder from split folders.

- 1 Select the destination folder, into which the other folders will be combined.

See “*Selecting Work Media and Work Folders*” (page 35) for more information about how to display the clip.

- 2 Select Combine from the Edit menu.

The Combine dialog appears.



- 3 Check the check boxes of the folders that you want to combine into the folder selected in step 1. Check the “Delete folders after combine” check box if you want to delete the combined folders after the combine.

Note

The combined folders are not deleted when:

- They contain other folders.
- You do not have delete/write privileges to the original folders.
- The folders are write protected.

- 4 Click Start.

The folders selected in step 3 are combined into the destination folder specified in step 1. The clips in all of the folders are gathered into the destination folder. If any of the clips are split clips, they are automatically grouped, allowing them to be handled as a single clip.

Reasons why a folder combine operation may fail

Folder combine operations may fail for the following reasons. In these cases, an error message appears and the combine is not executed.

- There is not enough free capacity in the combine destination folder.
- You do not have write privileges to the source or destination folders.
- The source or destination folders are write protected.
- Multiple instances of the same clip exist.

Copying All the Clips in Media or Folders

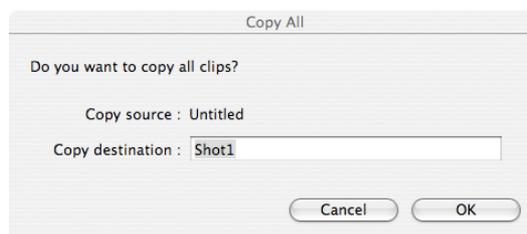
- 1 In one of the Info windows, select a copy source media or folder.

See “*Selecting Work Media and Work Folders*” (page 35) for more information about how to select media and open folders.

- 2 In the other Info window, select a copy destination media or folder.

- 3 Activate the copy source Info window, and select Copy All from the Edit menu or click the Copy All button.

The Copy All Clips dialog appears.



- 4 Check the copy source and copy destination, and then click OK to execute the copy or Cancel to cancel it.

To change the copy destination

Click the Copy destination: box to highlight it, and enter a folder name as the new copy destination.

When the copying starts, a progress dialog appears to display the status of the copy task.

To cancel the copy

Click Cancel in the progress dialog.

Reasons why a copy operation may fail

Copy operations may fail for the following reasons. In these cases, an error message appears and the copy is not executed.

- There is not enough free capacity at the copy destination.
- A clip with the same name as one of the copied clips already exists at the copy destination. Even if the

titles are different, clips are recognized as the same clip if they share the same ID (UMID).

- You do not have delete/write privileges to the source or destination media or folders.

Appendix

Usage Notes

Recording format

This application supports one recording format only - the format specified for XDCAM EX devices. This format has the following specifications.

- Folder names and the folder configuration are as shown in the following figure.
- Files contain link information pertaining to links between files and folders.

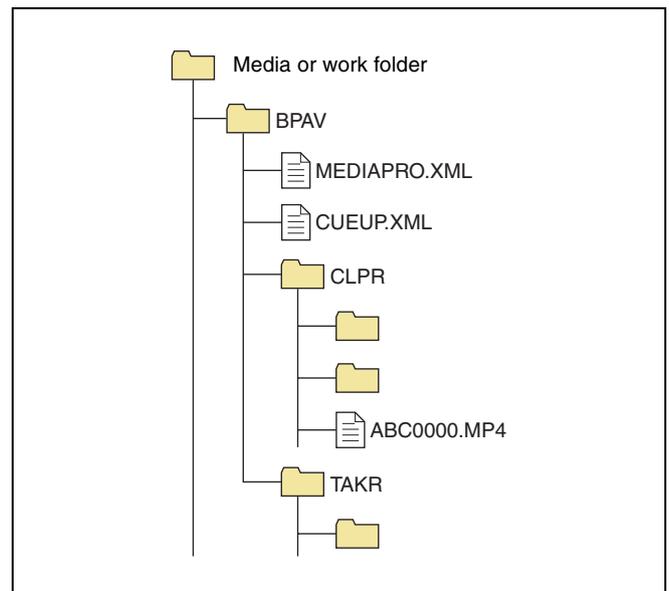
Note

Do not use tools that do not support the XDCAM EX format to edit, delete, move, or rename the files and folders used by this application. Unless the format specifications are observed, files can become unreadable by XDCAM EX devices and by this application.

Recording folders

The configuration of video and metadata folders is as shown in the following figure.

In the XDCAM EX format, the data beneath the BPAV folder is handled as a single set of data.



- One BPAV folder exists when a work folder is opened in Finder.
- To copy and backup your data, select the folders beneath the BPAV folder.
- When a work folder is selected in a Tree View pane of this application, a list of clips registered in the BPAV

folder appears in the corresponding List View pane. AV data is saved in the folders beneath the CLPR folder.

- On the media used by XDCAM EX devices, the BPAV folder is created beneath the root folder of the media.
- MP4 files can be copied to beneath the CLPR folder. When this is done, they appear in a List View pane as unregistered MP4 clips when the BPAV folder to which the CLPR folder belongs is displayed in Thumbnails View or List View mode.
- The unregistered clips of MP4 files beneath the CLPR folder can be imported. When this is done, new folders are created beneath the CLPR folder, and the MP4 files are moved to those folders.
- The unregistered clips of MP4 files can also be imported from other folders. When this is done, new folders are created beneath the CLPR folder, and the imported clips are copied to those folders. Folder names are assigned automatically.
- Up to 600 clips can be saved in one recording folder.

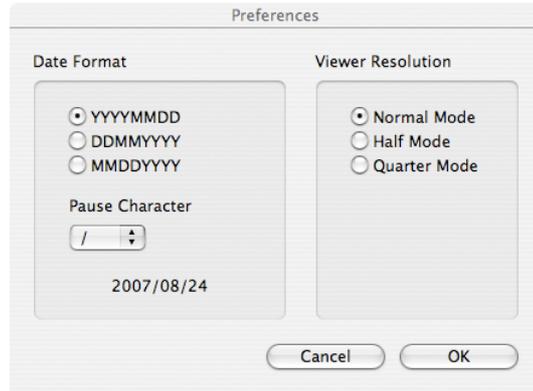
Note

Folder and file names are linked to metadata files. Do not change them.

Option Settings

The Preferences dialog allows you to configure the options of this application.

To open the Preferences dialog, select Preferences from the XDCAM EX Clip Browser menu.



Date Format: The buttons select the display format. YYYY represents the calendar year, MM the month, and DD the day. You can also specify a delimiter character for use between years, months, and days by selecting it from the Pause Character list box. The date below the list box shows the current date formatted with the selected character.

Viewer Resolution: Sets the playback resolution. Video quality is lower at Half Mode, and Quarter Mode, but playback response is better, because these resolutions lower the burden on the decoder. These resolutions are recommended if your computer is not powerful enough to deliver smooth playback at Normal resolution.

Note

On the Macintosh, language switching is handled by the operating system.

Shortcut Key List

This application supports keyboard shortcuts for many operations. The following tables show keyboard shortcuts by menu. In the Operation column, the notation

“Command + N” indicates operations in which one key (in this case the Command key) is held down while pressing another key (in this case the N key).

XDCAM EX Clip Browser menu

Command	Operation	Function	Reference
Preferences	Command + ,	Open the Preferences dialog of this application.	Page 46
Hide XDCAM EX Clip Browser	Command + H	Show or hide this application.	–
Hide Others	Option + Command + H	Show or hide other applications.	–
Quit XDCAM EX Clip Browser	Command + Q	Exit this application.	Page 31

File menu

Command	Operation	Function	Reference
Rename	Option + Command + R	Rename the selected folder.	Page 42
Create New Folder	Shift + Command + N	Create a new folder in the selected media or folder.	Page 42

Command	Operation	Function	Reference
Open Containing Folder	Command + N	Start Finder and open the currently selected folder.	Page 42
Import	Shift + Command + M	Import MP4 file (unregistered clip).	Page 38

Edit menu

Command	Operation	Function	Reference
Copy All	Option + Command + C	Copy all of the clips in the current media or folder.	Page 44
Cut	Command + X	Cut the selected clip.	Page 36
Copy	Command + C	Copy the selected clip.	Page 36
Paste	Command + V	Paste a cut or copied clip.	Page 36 Page 36
Delete	Command + Delete	Delete the selected clip.	Page 37
Select All	Command + A	Select all of the clips in the current media or folder.	–
Properties	Command + I	Open the Properties window of the selected clip.	Page 40
Split	Shift + Command + W	Split the selected folder into smaller folders of a specified size.	Page 43
Combine	Shift + Command + J	Combine specified folders into another folder.	Page 44
Special Characters	Option + Command + T	Open the Character Palette so that you can enter special characters and symbols.	–

View menu

Command	Operation	Function	Reference
Change Root Folder	Shift + Option + Command + W	Change the root folder of the Tree View pane.	Page 35
Up	Command + ↑	Move up to the next-higher folder.	Page 35
Sort by >Title	Shift + Option + Command + N	Sort the clips in the List View pane in ascending or descending order by title.	Page 33
Sort by >Size	Shift + Option + Command + S	Sort the clips in the List View pane in ascending or descending order by size.	
Sort by >Duration	Shift + Option + Command + D	Sort the clips in the List View pane in ascending or descending order by duration.	
Sort by >Date	Shift + Option + Command + C	Sort the clips in the List View pane in ascending or descending order by date and time.	
Search	Command + F	Search for a clip.	Page 39

Viewer menu

Command	Operation	Function	Reference
Play Control >Play	5 or L	Start play.	<i>Page 34</i>
Play Control >Stop	Space or K	Stop at the current position.	
Play Control >Fast Forward	S	Search in the forward direction (fast forward).	
Play Control >Rewind	A	Search in the forward direction (rewind).	
Play Control >Jump to Head	Q	Move to the first frame of the clip.	
Play Control >Jump to End	W	Move to the last frame of the clip.	
Play Control >Next Frame	4	Step 1 frame forward.	
Play Control >Previous Frame	3	Step 1 frame back.	
View >Full Screen	Command + Return	Display in full-screen mode.	<i>Page 39</i>

Window menu

Command	Operation	Function	Reference
Minimize	Command + M	Minimize the active window.	–
Default Window Positions	Option + Command + E	Return the operating window to its default position and size.	<i>Page 32</i>

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Library name: FFMPEG

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FFMPEG

- avcodec-51.dll
- avformat-51.dll
- avutil-49.dll

The source code is contained in the ClipBrowser/SRC folder of the supplied CD-ROM. It may also be downloaded from the following web site.
<http://www.sony.net/Products/Linux/Download/search.html>

Please note that we cannot respond to inquiries regarding the content of the source code.

FFmpeg is a trademark of Fabrice Bellard, originator of the FFmpeg project.

