Canon

Digital Video Software Macintosh

E

Version 20

Instruction Manual

Canon

DIGITAL VIDEO
Solution Disk

Contents

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Macintosh

Read This First

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■ Safety Precautions

Do not play the supplied CD-ROM(s) in any CD player that does not support data CD-ROMs. Playing the CD-ROM(s) in an audio CD player (music player) could damage the speakers. It is also possible to suffer from hearing loss from listening with headphones to the loud sounds of a CD-ROM played on a music CD player.

Checking Supplied Accessories

Use the following accessories to download recorded images from a memory card to your computer.

- IFC-300PCU USB Cable
- DIGITAL VIDEO SOLUTION DISK

> The explanations in this manual use mainly Mac OS X version 10.3 screen shots. The steps and windows may vary depending on your computer.

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System Requirements

OS:	Mac OS X (version 10.2/10.3/10.4)
Computer Model:	Computers that come with above OS preinstalled
CPU:	PowerPC G3/G4/G5
RAM:	256 MB or more
Interface:	USB
Free Hard Disk Space:	Canon Utilities ImageBrowser 200 MB or more
Display:	1024 × 768 pixels/32,000 colors or better

- ❍ Proper operation is not guaranteed on a user-built PC.
- ❍ Proper operation is not guaranteed on any particular system, even if it meets the requirements outlined above.
- ❍ ImageBrowser does not operate on disks initialized with the Unix File System (UFS).
- ❍ A CD-ROM drive is required to install the software.

What is Digital Video Software

The following software will be installed by installing the Digital Video Software.

■ ImageBrowser

- Viewing downloaded images
- Categorizing, organizing, and searching large volumes of images
- Editing still images
- Editing movies recorded on a memory card and capturing still images from movies
- Changing the data for still images and save them as new files
- Attaching still images to E-mail
- Viewing still images in a slide show
- Adding sound to an image
- Printing downloaded still images with background, frame, title and comments
- Printing indexes

■ CameraWindow

- Downloading images from a memory card to your computer
- Printing still images recorded on the memory card without downloading the still images to the computer
- Viewing images recorded in a memory card

This instruction manual explains how to install the software, what you can do with the main features and how to operate them. For more detailed operational instructions, refer to the Help menu of each software program.

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Windows

CameraWindow

CameraWindow is a program created to download still images from the memory card to the computer. Furthermore, you can print still images recorded on the memory card without having the images downloaded to the computer (📖 37). Refer to *CameraWindow Automatic Launch Setting* (📖 26) for launching the software. Remote capture function is not supported by the camcorder.

> ○ Click the [CameraWindow] icon in the Dock (bar appearing at the bottom of the desktop) if the Camera Control window does not appear.
> ○ When the [CameraWindow] icon is not in the Dock, double click the [Canon Utilities] folder on the drive where the program was installed, followed by the [CameraWindow] folder and the [CameraWindow] icon.

■ [Acquire Images] Tab

This tab is used for downloading still images recorded on the memory card by connecting a camcorder or a card reader/writer to the computer.

Camera Control window

Selects a function in the Camera Control window.

Specify the image type to be downloaded and the destination folder.

Images in the camcorder are displayed allowing you to select images.

Images will be downloaded to the computer, and ImageBrowser starts.

■ [Print] Tab

This tab is used for printing still images on the memory card without having the images downloaded to the computer. The window varies depending on the selected printing type. Refer to *Printing Still Images Recorded on the Memory Card* (📖 37).

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Camera Control window

Prints all still images in the card one image per page.

```
 ○ ○ ○              Canon ✳✳✳✳✳

 [ Acquire Images │  Print  │  Set to Camera │  Remote shooting ]


        [🖼]      Print All Images


        [🖼]      Print Contact Sheet of All Images


        [ ]      Print according to DPOF settings


        [🖼]      Select image and print



     ( Preferences... )              (    Quit    )
```

Displays a list of the still images in the card, allowing you to select which ones to print.

Prints according to the DPOF print settings set by the camcorder.

Prints all still images in the card as an index page (rows of images on one page).

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■ [Set to Camera] Tab

This tab is used for confirming and changing the camcorder settings and uploading the images to the card. My Camera function is not supported by the camcorder.

Camera Control window

Canon ✳✳✳✳✳

| Acquire Images | Print | Set to Camera | Remote shooting |

Set My Camera

Confirms/changes camera settings

Uploads images to the camera

Preferences...   Quit

Uploading the images from the computer.

Enter or change the name of the camcorder's owner.

■ Camera Browser Window

Camera Browser window

Still image information and a histogram

File Information:	
File Name:	IMG_0101.JPG
Modified:	01/15/0X 14:49:...
File Size:	200 KB
Image Size:	640X480
Data Type:	JPG

Histogram:

Shooting Information:

Item Name	Value
File Name	IMG_0101....
Camera Model Na...	Canon ✱✱...
Shooting Date/Ti...	01/15/0X...
Shooting Mode	Portrait
Photo Effect	Off
Tv (Shutter Speed)	1/40
Av (Aperture Val...	2.0
Light Metering	Evaluative
Exposure Compe...	0
ISO Speed	Auto
Lens	2.6 - 65.0 ...
Focal Length	7.9 mm
Digital Zoom	None
Image Size	640x480
Image Quality	Fine
Flash	Off
AF Mode	Manual Foc...
Color Space	sRGB

Selects image 1 of 4

Starts ImageBrowser.

Selects whether to show or hide the image frame and file name.

Prints the selected still images.

Selects the still image selection method.

Changes the size of the thumbnail.

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Browser Window

ImageBrowser is a software program used for organizing, printing and editing the downloaded images. To start ImageBrowser, click the [ImageBrowser] icon in the Dock. If the ImageBrowser icon is not in the Dock, double-click the [Canon Utilities] folder on the drive on which the program was installed, followed by the [ImageBrowser] folder and the [ImageBrowser] icon.

1 Explorer View

Displays the disks and folders that you can use on your computer. To show or hide the folder contents, click the triangle symbol besides the folder name. 📁 indicates that newly downloaded images are in the folder.
Selecting the [Favorite] tab shows only the folders that are registered as Favorites. To register a folder as Favorites, follow the instructions below.

When you have selected the [All] tab:
Select a folder and click [Add to Favorites].

When you have selected the [Favorite] tab:
Click [Add] and specify a folder.

To remove the registered folder, select the folder, and click [Remove].

2 Browser Area

This area displays the images contained in the selected folder.

3 View Mode

You can select a view mode of images in the Browser Area.

[Preview]: The thumbnail images are displayed at the bottom of the Browser Area, and the Information Panel is displayed in the upper part.

Preview Image

Information Panel

Selected Thumbnail

[List]: The images are displayed as thumbnails. The thumbnails can be enlarged/reduced by selecting [Enlarge] or [Reduce] from the [View] menu.

Context Menu

When the view mode is set to [Preview] or [List], click on a thumbnail image while pressing the [control] key on the keyboard, a context menu will appear. The context menu allows you to select several functions directly without using the menu bar located on top of the window.

Context menu

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[TimeTunnel]: The images are displayed in the chronological order.

The date/time at which the images were shot appears on the red line. You can change this date/time by double-clicking it on the display. A window similar to the one below appears. Specify the new date/time.

Move the slider up or down to move backward or forward in time.

Click to display the control panel.
[Display Tool Panel]:
Select to display or hide the tool panel.
[Auto Cruise]:
Enables or disables [Auto Cruise]. When [Auto Cruise] is active, the time movement continues even after you have moved and released the bar.
[Play Sound]:
Plays back the added sound.

Tool Panel

Makes the TimeTunnel rings octagonal.

Changes the number of TimeTunnel rings.

Makes the TimeTunnel look curved.

Allows you to specify the date for the images displayed.

[File Information]
When the view mode is set to [List] or [TimeTunnel], select [Get Info] from the [File] menu to display the following window.

You can rename files.

Hides the information display at the right.

Input a comment.

Shooting information

Sets a Star Rating.

Histogram

Sets a keyword.

You can switch and view the shooting information of the next or previous image by clicking these buttons.

Placing a check mark here prevents the image from being overwritten or deleted.

You can play sounds if they are attached to images.

4 Browser Area Tool Bar

The tool bar does not appear in the [TimeTunnel] mode.

1	View	Allows you to select displayed images according to the star rating.
2	Enlarge/Reduce	Enlarges/reduces the thumbnails in the Browser Window.
3	Selecting Images	Allows to select all images and deselects images.
4	Display Pattern	Allows to change the appearances of the Browser Window.

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5 Application Tool Bar

1	**Canon Camera**	Opens CameraWindow.
2	**View Image**	Displays a selected image in the [Image Viewer] window.
3	**SlideShow**	Displays still images in a slide show.
4	**Internet**	Allows attaching the selected still images to E-mail messages.
5	**Print**	Prints the selected still images.
6	**Send to Trash**	Deletes the selected images.

[Image Viewer] Window

The [Image Viewer] window appears when you select an image and click [View Image] or double click an image.

Changes the zoom ratio of the image.

Changes the star rate.

1	Back/Next	Displays the previous/next image in the current folder.
2	Save	Allows saving the edited image.
3	Edit	Allows you to perform the following operations: red-eye correction, auto correct, color and brightness correction, sharpness adjustment, trimming, inserting texts or registering external image editing applications. Unable to use when the multiple images are selected.
4	Number of Displays	Allows you to display multiple images at the same time.
5	Synchronize	Synchronizes View functions across all displayed images.
6	Full Screen	Displays an image in full screen size. To return to Browser Window, click the full screen sized image or press any key.
7	Print	Prints the selected still image. Refer to *[One Photo per page Print]* (41).
8	Show Information	The shooting information of the image will be displayed. [Show AF Frame] cannot be used for the images recorded by the camcorder.

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■ [Trim Image] Window

Select [Trim Image] from the icon located at the bottom of the [Image Viewer] window. Either drag the mouse on the image or specify the cropping area, and click [Trim Image].

■ [Color/Brightness Adjustment] Window

Select [Color/Brightness Adjustment] from the icon located at the bottom of the [Image Viewer] window. Use this to change the image's properties by adjusting the RGB intensity, saturation and brightness.

■ [Red Eye Correction] Window

Select [Red Eye Correction] from the icon located at the bottom of the [Image Viewer] window. Use this to correct images in which peoples' eyes appear red.

■ [Insert Text] Window

Select [Insert Text] from the icon located at the bottom of the [Image Viewer] window. [Insert Text] allows you to write text on still images.

■ [Level Adjustment] Window

Select [Level Adjustment] from the [Edit] icon located at the bottom of the [Image Viewer] window. Use this to adjust the levels in an image to change its appearance.

■ [Tone Curve Adjustment] Window

Select [Tone Curve Adjustment] from the [Edit] icon located at the bottom of the [Image Viewer] window. Use this to adjust the tone curve for an image to change its appearance.

■ [Sharpness] Window

Select [Sharpness] from the [Edit ▼] icon located at the bottom of the [Image Viewer] window. Use this to emphasize and clarify the outlines of people and objects.

■ [Auto Adjustment] Window

Select [Auto Adjustment] from the [Edit ▼] icon located at the bottom of the [Image Viewer] window. Use this to automatically correct the image's color balance.

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Installing the Digital Video Software

Before you connect the camcorder to the computer with the USB cable for the first time, you must install the Digital Video Software.

Your digital video camcorder is equipped with the standard Picture Transfer Protocol (PTP). This protocol enables you to download images by simply connecting the camera to a computer with the USB cable (using software such as iPhoto or Image Capture preinstalled on Mac OS X).
However, please note that there are several limitations to downloading images with this method.

○ It may take a few minutes, after connecting the camcorder, until you can download images.
○ Only AVI* movie files can be downloaded. Thumbnails cannot be downloaded.
  * Two files are created in the camcorder (for example: [MVI_0001.AVI] and [MVI_0001.THM]). [MVI_0001.THM] files cannot be downloaded but movies can still be played back on the computer.
  - When downloading the images by Image Capture that comes with Mac OS, the Exif version may change to 2.1 and image information may be modified. Either install ImageBrowser to download the images or use the following procedures.
    1) Connect the camcorder to the computer, and start Image Capture.
    2) Click [Options].
    3) Remove the checkmark from [Embed Colorsync profile] in the [Download Options] tab and click [OK].

1 **Close all programs that are running, and check that a camcorder is not connected to the computer.**

2 **Set the DIGITAL VIDEO SOLUTION DISK in the computer's CD-ROM drive.**

3 **Double click the CD-ROM icon and the [CanonDigitalVideoInstaller] icon.**

4 Click Digital Video Software [Install].

Installer Panel —

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DIGITAL VIDEO
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Digital Video Software

Install

Exit

5 Select [Easy Installation] and click [Next].

To install the software individually, select [Custom Installation].

Selecting an Installation Type

Select an installation type and click [Next].

⦿ Easy Installation

Installs all the programs. We recommend this option for users unfamiliar with the installation.

◯ Custom Installation

Lets you select the programs you want to install. We recommend this option for users familiar with the installation.

Cancel   Next >

6 Read the license agreement and click [Agree].

7 Review the installation settings and click [Next].

Starting Installation

Installation will begin using the settings listed below. Click [Next] to start copying files.

Destination Folder:
    Macintosh HD:Applications:Canon Utilities

Programs to be Installed:
    ImageBrowser

Cancel   < Back   Next >

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8 When the "Installation has finished." message appears, click [OK].

After the installation is complete, restart the computer as prompted.

Installation has finished.

OK

Before Downloading Images

Connecting the Camcorder to a Computer

⊘ Be sure to install the Digital Video Software before you connect the camcorder to the computer.
⊘ Make sure the camcorder is being powered using the power adapter before connecting it to a computer.
⊘ Connect the USB cable directly to one of the computer's main USB ports. The interface may not function correctly if the camcorder is connected via a USB hub.
⊘ The connection may not operate correctly if you are using other USB devices, excluding USB mice or keyboards, at the same time. If this occurs, disconnect the other devices from the computer and try reconnecting the camcorder.
⊘ Do not connect two or more camcorders to the same computer via the USB interface. The connections may not operate correctly.
⊘ **Never allow the computer to go into standby (sleep) mode while a camcorder is connected via the USB interface.**

⊘ Refer to your computer manual for the location of the computer's USB ports.
⊘ See your camcorder instruction manual for connecting instructions.

1 **Insert a memory card containing images into the camcorder.**

2 **Connect the power adapter to the camcorder.**

3 **Turn the POWER switch to PLAY (VCR)/PLAY and move the TAPE/CARD switch to CARD.**
Wait until the card access indicator stops flashing.

4 **Attach the supplied USB cable to the computer's USB port and the camcorder's USB Terminal.**

USB Terminal on the Camcorder

USB Cable

← Camcorder End   Computer End →

USB Port on the Computer

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CameraWindow Automatic Launch Setting

When the first time connecting the camcorder to the computer, perform the steps below.

1 **Start Image Capture application and select [Preferences] from the [Image Capture] menu.**

Image Capture	File	Edit
About Image Capture		
Preferences...		⌘,
Services		▶
Hide Image Capture		⌘H
Hide Others		⌥⌘H
Show All		
Quit Image Capture		⌘Q

2 **Select [Other] from [When a camera is connected, open].**

Image Capture Preferences

Camera Sca...

🗂 iPhoto
🖼 Image Capture
When a camera is connected, open ✓ No application

Other...

3 **Select CameraWindow and click [Open].**

CameraWindow is normally installed in [Applications] ▶ [Canon Utilities] ▶ [CameraWindow].

4 **Click [OK].**

If you do not wish the Camera Control window to open automatically when you connect the camcorder, click the [File] menu and clear the check mark from the [Start when a camera is connected].

Downloading Images (ImageBrowser)

Below explains the procedure for connecting a camcorder to a computer using the USB cable. For connecting a card reader/writer, see *Using a Card Reader/ Writer* (📖 34).

- ⚠
  - ○ If a memory card contains an enormous volume of images (approx. 1000 or more), you may not be able to download images with ImageBrowser or an OS standard software depending on the computer you are using or the installed OS. In this case, use a card reader to download images.
    - For connecting a card reader/writer, see *Using a Card Reader/Writer* (📖 34).
  - ○ Observe following precautions when the camcorder's card access indicator is flashing (the camcorder is reading or writing from or to the memory card). Failure to do so may cause memory card data to become corrupted.
    - Do not open the memory card cover, remove the memory card or detach the USB cable.
    - Do not turn off the camcorder or the computer.
    - Do not change the position of the POWER switch or the TAPE/CARD switch.
  - ○ Images recorded onto the memory card or downloaded to the hard disk are important original data files. Create a copy of the file first before working on it on your computer.

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Using the Computer to Download Images

You can select a downloading method in the Camera Control window.

■ Auto-downloading

1 Connect the camcorder to the computer (□ 25).

To start the Camera Control window manually, click the [CameraWindow] icon located in the Dock. If the [CameraWindow] icon is not in the Dock, double click the [Canon Utilities] folder on the drive where the program was installed, followed by the [CameraWindow] folder and the [CameraWindow] icon.

2 Click [Starts to download images].

• ImageBrowser starts.
• Click [Quit] to close the Camera Control window after downloading images.

Camera Control window —

The Remote shooting function is not supported by your camcorder.

■ Applying Auto-downloading Settings

This task allows you to apply auto-downloading settings. You can specify the types of images and the destination folder.

1 **In the Camera Control window, click the [Acquire Images] tab and click [Preferences].**

2 **Select [Change auto download settings] and click [Next].**

3 Select the image type to be downloaded and click [Next].

When the protect switch of the SD Memory Card is activated during image transfer, the images will not be marked as "already transferred" even having selected [New images] and downloaded.

CameraWindow – AutoDownload Settings (1)

Select the image type to be downloaded.

- ● New images
- ○ All images
- ○ Images whose print order settings were specified with the camera
- ○ Images whose transfer settings were specified with the camera

Download Options

Place a check mark here if you wish the original image in the camcorder to be deleted after downloading.

☐ When the download is complete, the original image is deleted from the camera.

<Previous   Next>   Cancel

4 Specify the destination folder settings and click [Next].

CameraWindow – AutoDownload Settings (2)

Specify the location at which to save the image.

Destination Folder

A new folder will be created for each of the images' shooting dates in the following folder, and the images will be saved there.

Macintosh HD:Users:video:Pictures   Browse...

Click this button to browse where you want to save the images.

Create Sub folder

Shooting YearMonthDate   ⬍

Example: 📁 Macintosh HD:Users:video:Pictures
           📁 200X_01_15

Select to specify the name of the subfolder.

<Previous   Next>   Cancel

5 Specify a process to perform after the image is downloaded and click [Next].

Below window will be displayed when you select [Perform selected processes consecutively] (You can redisplay the window by clicking [Select]). Select a process to perform after the image is downloaded, and click [OK].

6 Click [Finish].

Placing a check mark here makes images in the camcorder to be automatically downloaded when the camcorder is connected.

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■ Downloading the Selected Images

1 Click [Lets you select and download images].

2 Select images you wish to download and click [Download Images].

• Clicking on 2 images while holding down the [option] + [shift] key selects also all images between the 2 images.
• Clicking on different images while holding down the [shift] key selects multiple images.

A blue frame appears around the selected image.

3 Confirm the settings and click [Start Download].

• ImageBrowser starts, and Browser Window appears.

Specify the file name at which to save the images.

Specify the settings of the folder and subfolder.

• To make changes, click [Change Settings].
[Specify Folder] Tab

Specify the settings of the folder and subfolder.

[Specify File Name] Tab

Specify the file name at which to save the images.

■ Using a Card Reader/Writer

1 Insert a memory card into the reader.

2 Select a method to download the images.

- [Starts to download images]: CameraWindow appears, and the images in the memory card are downloaded. To apply auto-downloading settings, refer to *Applying Auto-downloading Settings* (📖 29).
- [Lets you select and download images]: CameraWindow appears, and the images in the memory card are shown as thumbnails.

Using the Camcorder to Download Images (Direct Transfer Function)

If your camcorder supports the Direct Transfer Function, you can use the camcorder to download images.

If your camcorder is not equipped with the 🖨⤳ button, operate the direct transfer menu using the P.SET button. For details, please refer to the instruction manual of your camcorder.

1 Set the direct transfer settings on the camcorder screen after starting the Camera Control window.

- See your camcorder instruction manual for how to set and operate the camcorder to transfer images.
- For instructions on how to change the destination folder and the folder name, see *Applying Auto-downloading Settings* (📖 29).
- The 🖨⤳ button cannot be used when it is not lighted.

2 Press the 🖨⤳ button on the camcorder.

■ Setting the Direct Transfer Download Destination Folder

1 Click the [Acquire Images] tab and click [Preferences].

2 Select [Change direct transfer download destination folder] and click [Next].

CameraWindow – AutoDownload Settings

Which download method do you want to perform setup for?

◉ Change direct transfer download destination folder

◯ Change auto download settings

Next>   Cancel

3 Specify the destination folder settings and click [Finish].

Click [Quit] to close the Camera Control window.

CameraWindow – AutoDownload Settings (1)

Destination Folder —

Specify the location at which to save the image.

A new folder will be created for each of the images' shooting dates in the following folder, and the images will be saved there.

Macintosh HD:Users:video:Pictures   Browse...

Click this button to specify the destination folder.

Create Sub folder

Select to specify the name of the subfolder.

Shooting YearMonthDate

Example: Macintosh HD:Users:video:Pictures
            200X_01_15

<Previous   Finish   Cancel

Printing Still Images

Printing Still Images Recorded on the Memory Card

You can select one of the following 4 methods to print still images in the card without downloading them to the computer.
• [Print All Images]
  - Prints all still images recorded on a memory card in the connected camcorder or in a card reader/writer one image per page.
• [Print Contact Sheet of All Images]
  - Prints all still images recorded on a memory card in the connected camcorder or in a card reader/writer in an index (rows of images on one page).
• [Print according to DPOF settings]
  - Prints according to the DPOF print settings set by the camcorder.
• [Select image and print]
  - A list of the still images recorded on a memory card in the connected camcorder or in a card reader/writer will be displayed, and you can select images you wish to print.

1 **Connect the camcorder to the computer. (📖 25)**

2 **Click the [Print] tab in the Camera Control window.**

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3 Click on one of the 4 printing methods.

4 Specify the print settings and click [Print].

The window varies depending on the selected printing method in step 3.

When you have selected [Print All Images]:

Click this button to switch between still images if multiple images are selected.

Sets the number of print copies of the displayed image.

Selects the printer.

Sets the paper size settings.

Sets the auto trim (crops image edges according to the page proportions) or borderless print settings.

Sets the shooting date/time imprint and color settings.

Rotates images.

Click this to use the trimming function (crops a portion of the still image).

When you have selected [Print Contact Sheet of All Images]:

Click these buttons to switch between pages. ─────────

Selects the printer. ────────

Sets the printer and paper size settings. ────────

Sets the number of print copies of the contact sheets. ────────

Sets the number of rows and columns. ────────

Sets the print settings for shooting information, comments, headers, footers and page numbers. ────────

Rotates still images. ────────

Click this to use the trimming function (crops a portion of the still image). ────────

When you have selected [Print according to DPOF settings]:
• The selected still images will be printed according to the number of copies set with the camcorder. The same window described in the previous section *When you have selected [Print All Images]:* (38) will be displayed.

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When you have selected [Select image and print]:

- If you selected [Select image and print], the following window will be displayed. Select still images you wish to print, and click [Print]. If you selected [Contact Sheet Print], the same window described in the previous section *When you have selected [Print Contact Sheet of All Images]:* (📖 39) will be displayed. If you selected [One Photo Per Page Print], the same window described in the previous section *When you have selected [Print All Images]:* (📖 38) will be displayed instead. Set the print settings and print the still images.

5 **When the print window opens, click [Print].**

6 **When the printing finishes, click 🗙 to close the window.**

Printing Still Images Downloaded to the Computer

You can select one of the following 3 methods to print still images downloaded to the computer.

• [One Photo per page Print]
  - Prints one still image per page.
• [Index Print]
  - Prints a selection of multiple still images in columns and rows in an index form.
• [Layout Print]
  - Allows you to lay out the selected still images in special arrangements and add text and decorations, printing them as one page in a fancy album.

■ [One Photo per page Print]

1 **Select the still images you wish to print and click [Print] ▶ [One Photo per page Print] from the displayed menu.**

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2 Specify the print settings and click [Print].

Click this button to switch between still images if multiple images are selected. ——

Sets the number of print copies of the displayed image. —

Selects the printer. ——

Sets the paper settings. ——

Sets the auto trim (crops image edges according to the page proportions) or borderless print settings. ——

Sets the shooting date/time imprint and color settings. ——

Rotates still images. ——

Click this to use the trimming function (crops a portion of the still image). ——

3 When the print window opens, click [Print].

4 When the printing finishes, click ⊗ to close the window.

■ [Index Print]

1 Select still images you wish to print and click [Print] ▶ [Index Print] from the displayed menu.

2 Specify the print settings and click [Print].

Click these buttons to switch between pages.

Selects the printer.

Sets the paper size and orientation.

Sets the number of print copies of the contact sheets.

Sets the number of rows and columns.

Sets the print settings for shooting information, comments, headers, footers and page numbers.

Rotates still images.

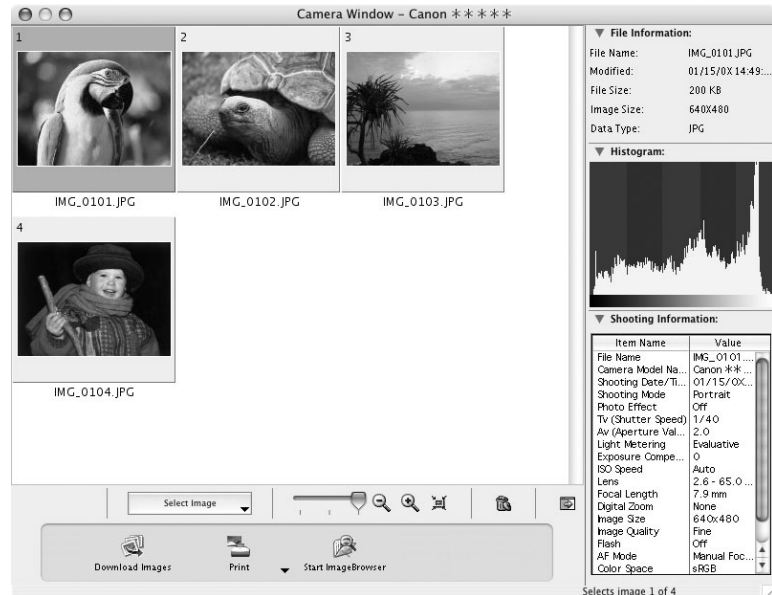Click this to use the trimming function (crops a portion of the still image).

3 When the print window opens, click [Print].

4 When the printing finishes, click ⊗ to close the window.

■ [Layout Print]

• You can select one of the following 3 layout print methods.

[Custom layout printing]   Allows you to specify the size and location of the still images freely.

[Fixed photo size printing]   Allows you to specify the size of the all still images.

[Tiled photo printing]   Allows you to have the program lay out and print the specified number of images per page with no gaps between still images on the page.

• Selecting [Edit] ▶ [Add Text] allows you to write some texts on a still image. You can move added text boxes on the still image by dragging them.

• Selecting [Edit] ▶ [Edit Header] allows you to insert a header.

Macintosh

1 **Select still images you wish to print and click [Print] ▶ [Layout Print].**

2 **Select a print style from the pull-down menu and click [Print] after specifying the print settings.**

3 **When the print window opens, click [Print].**

4 **When the printing finishes, click ⊗ to close the window.**

■ **Multiple Page Printing**

Multiple page printing is a function that enables you to print enlarged still images or panoramic images onto multiple pages.

 Your camcorder needs to support the Stitch Assist mode to record a panoramic image.

1 **Select a still image for the multiple page printing.**

2 Select [Print] ▶ [Multiple Page Print] from the [File] menu.

File	Edit	View	Internet	Window	Help

Open...	⌘O
Close	⌘W
Save...	⌘S

Export Images...	
Organize Image	▶
Canon Camera	▶

Page Setup...	
Print	▶
Sound	▶

One Photo per page Print...	⌘O
Index Print...	
Layout Print...	⌘P
Print	
Multiple Page Print...	
Multiple Page Print Options...	

3 Specify the print settings and click [Print].

To enlarge a still image, you can click [Page Setup] and enter a new value at [Scale].

Multiple Print

Preview:

☑ Center Horizontally
☑ Center Vertically
☐ Fit to Page —— Position setting
☑ Print Over Multiple Pages

☑ Print with Overlaps —— Sets the overlap for binding.

(?) (Cancel) (Page Setup...) (Print...)

Selecting [Multiple Page Print Options] from the [File] menu allows you to specify the [Print Resolution]. The lower the resolution you set, the larger the image is printed and vice versa - the higher you set the print resolution, the smaller the image is printed.

Macintosh

Organizing Images

Applying Star Rating

- This task allows you to apply ratings to your images from one star to three stars. The Star Rating can be used as one of the search conditions, or for the selection of images to be displayed in the Browser Window.
- The default setting of the Star Rating is two stars.

1 **Select the image to which you wish to apply the Star Rating.**

2 **Select [Change Star Rating] from the [Edit] menu.**

You can display images according to Star Rating by selecting from the [View] drop down list.

Specifying the Keywords

Keyword is used for searching images.

1 Select an image you wish to apply the keyword.

2 Select [Keyword] ▶ [Settings] from the [Edit] menu.

Edit	View	Internet	Window	Help	
Undo					⌘Z
Redo					⌘Y
Cut					⌘X
Copy					⌘C
Paste					⌘V
Edit still image					▶
Movie Edit...					
Extract frames from a movie...					
Edit with Registered Application					▶
Keyword				▶	Settings...
Change Star Rating				▶	Manage...

3 Place a check mark next to the keyword you wish to apply and click [OK].

Keywords Setting

People	Places	Events	Others
☐ Children	☐ Beach	☐ Birthday	
☐ Family	☐ City	☐ Holiday	
☐ Friends	☐ Home	☐ Party	

Check or uncheck the boxes to change the way Keywords are applied to the selected images.
To add a new Keyword to the system, type the name in the text field below the desired category, and press the [+] button.

Cancel   OK

You can add and delete keywords, or change the keyword list in the [Manage Keywords] window by selecting [Keyword] ▶ [Manage] from the [Edit] menu.

Macintosh

Classifying the Images

This task allows you to sort images into a folder according to the shooting date or Star Rating.

■ Sort by the Shooting Date

1 **Select the images you wish to classify and select [Organize Image] ▶ [Sort Images] from the [File] menu.**

File	Edit	View	Internet	Window	Help

Open... ⌘O
Close ⌘W
Save... ⌘S
Save As ⇧⌘S
Search... ⌘F

Export Images...
Organize Image ▶   Sort Images...
Canon Camera ▶   Rename...

Page Setup...
Print ▶

Sound ▶

2 **Select [The files will be separated into folders for each shooting date.] and click [Next].**

Sort Images

Select the sort method for the selected image's folder.

⦿ The files will be separated into folders for each shooting date.

○ The files will be organized by Star Rating.

Cancel   Next >

3 Specify the sort settings and click [OK].

The selected images are classified into the specific folder.

```
                  Organize by Shooting Date
The files will be separated into folders for each shooting date.

  Save To:

    A new folder will be created in this folder.

    Macintosh HD:Users:video:Pictures:200X_01_...  ( Browse... )

  Sort Folder Settings:

    Based on the following settings, a new folder is created, and
    the images are sorted by each of their shooting dates.

      Folder Name:    [ YearMonthDate          ▼ ]

      New Name:       [              ] [↕] ( Edit... )

    Macintosh HD:Users:video:Pictures:200X_01_15:2002_03_28

Copy/Move Images Setting

    ⊙ Copy

    ○ Move

            ( Cancel )   ( < Back )   ( OK )
```

■ Sort by the Star Rating

1 Select the images you wish to classify and select [Organize Image] ▶ [Sort Images] from the [File] menu.

```
File  Edit  View  Internet  Window  Help
Open...              ⌘O
Close                ⌘W
Save...              ⌘S
Save As             ⇧⌘S
Search...            ⌘F

Export Images...
Organize Image    ▶  | Sort Images... |
Canon Camera      ▶  | Rename...      |

Page Setup...
Print              ▶
Sound              ▶
```

Macintosh

2 Select [The files will be organized by Star Rating.] and click [Next].

3 Specify the sort settings and click [OK].

Renaming Multiple Files

This task allows you to rename multiple files at the same time, or to rename and copy multiple files.
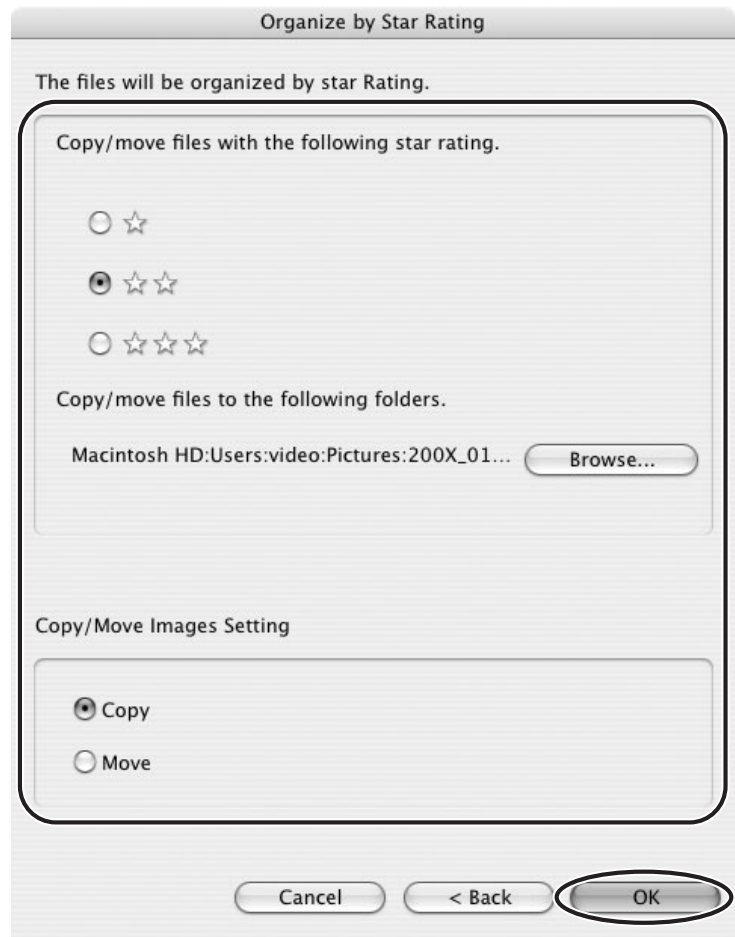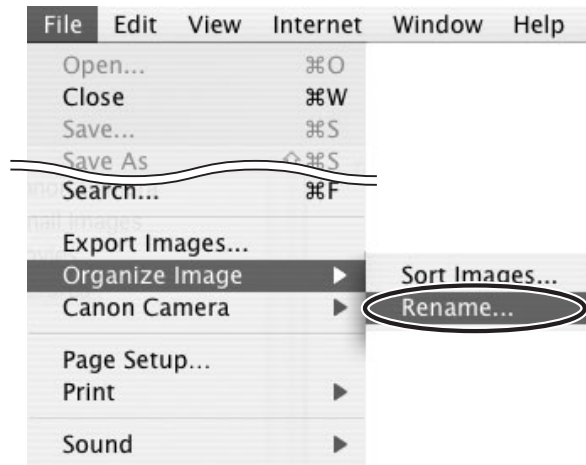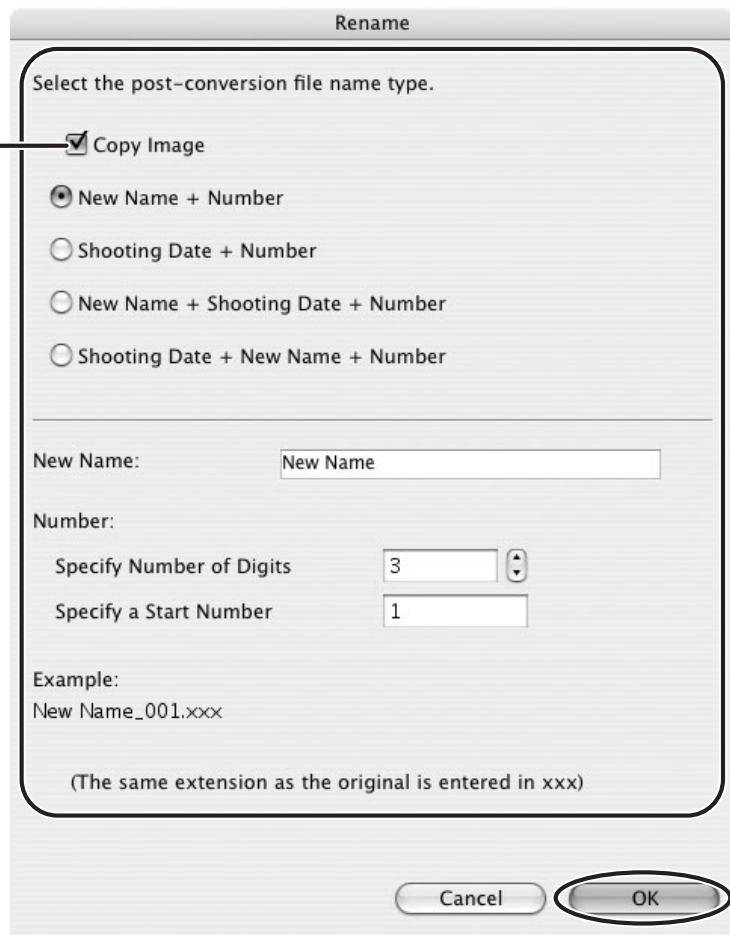
1 **Select the images you wish to rename and select [Organize Image] ▶ [Rename] from the [File] menu.**

File	Edit	View	Internet	Window	Help
Open...	⌘O				
Close	⌘W				
Save...	⌘S				
Save As	⇧⌘S				
Search...	⌘F				
Export Images...					
Organize Image	▶	Sort Images...			
Canon Camera	▶	Rename...			
Page Setup...					
Print	▶				
Sound	▶				

2 **Specify the settings and click [OK].**
The images are renamed according to the settings specified.

Placing a check mark here makes copies of images with new names. The name of the original images will not be changed.
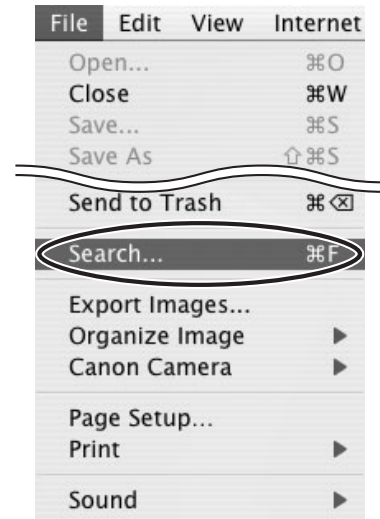
Rename

Select the post-conversion file name type.

☑ Copy Image

⦿ New Name + Number

◯ Shooting Date + Number

◯ New Name + Shooting Date + Number

◯ Shooting Date + New Name + Number

New Name: New Name

Number:

Specify Number of Digits   3

Specify a Start Number   1

Example:
New Name_001.xxx

(The same extension as the original is entered in xxx)

Cancel   OK

Macintosh

Searching for Images

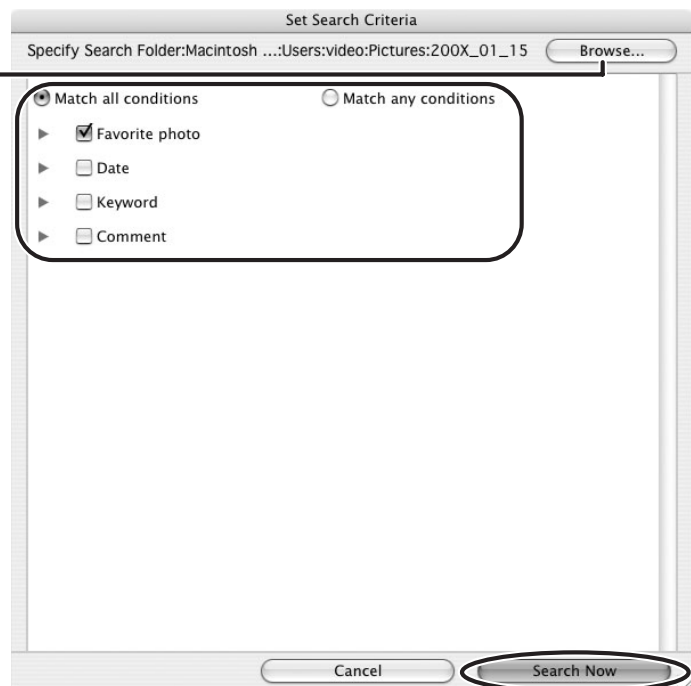This task allows you to search for images by Star Rating, Modification Date, Shooting Date, Comment or Keywords.

1 Select a folder in the explorer view.

2 Select [Search] from the [File] menu.

File	Edit	View	Internet
Open...			⌘O
Close			⌘W
Save...			⌘S
Save As			⇧⌘S
Send to Trash			⌘⌫
Search...			⌘F
Export Images...			
Organize Image			▶
Canon Camera			▶
Page Setup...			
Print			▶
Sound			▶

3 Specify the search conditions and click [Search Now].
- The search results are displayed as thumbnails.
- Select at least one search condition.
- Clicking the ▶ icon discloses the parameters of settings.

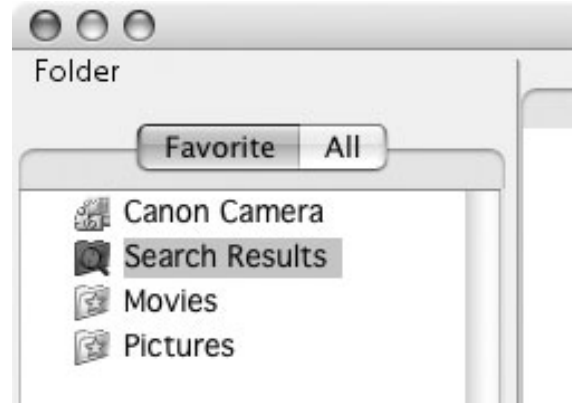Clicking this button allows you to specify a folder.

Set Search Criteria

Specify Search Folder:Macintosh ...:Users:video:Pictures:200X_01_15 (Browse...)

● Match all conditions   ○ Match any conditions
▶ ☑ Favorite photo
▶ ☐ Date
▶ ☐ Keyword
▶ ☐ Comment

(Cancel)   (Search Now)

4 Click [Finish].

• To change the search parameters and perform another search, click [Back] and repeat steps 3-4.

Search Results

1 images found.Click [Finish] to return to the Browser window.To review search criteria, click the [Back] button.

IMG_....JPG

< Back   Finish

• The images of the search result are displayed in the [Search Results] folder. You can print or copy these images to another folder. The images will remain in this folder until ImageBrowser is closed or another search is performed.

Folder

Favorite | All

Canon Camera
Search Results
Movies
Pictures

Playing Back and Editing Movies

Playing Back Movies

In the CameraWindow and Browser Area, movies are displayed with the first scene as a still image with a ▨ (movie) icon.

1 **In the Browser Area, double-click a thumbnail with a ▨ (movie) icon.**

Clicking the ▶ (Play) icon at the bottom of the image in the Main Window also plays back the movie.

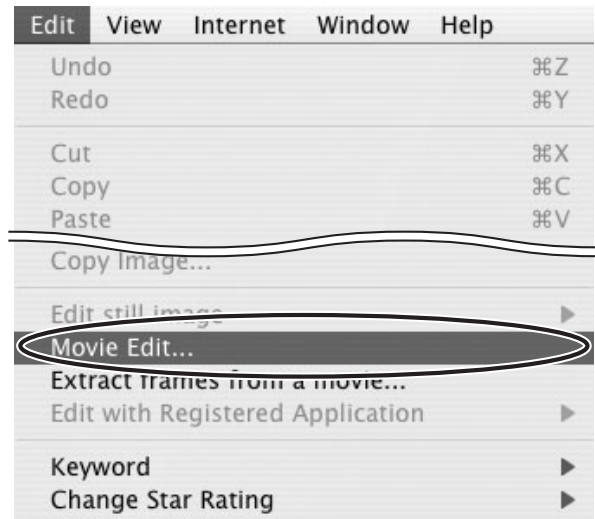**2** **Click the ▶ icon in the [Image Viewer] window.**

Editing Movies

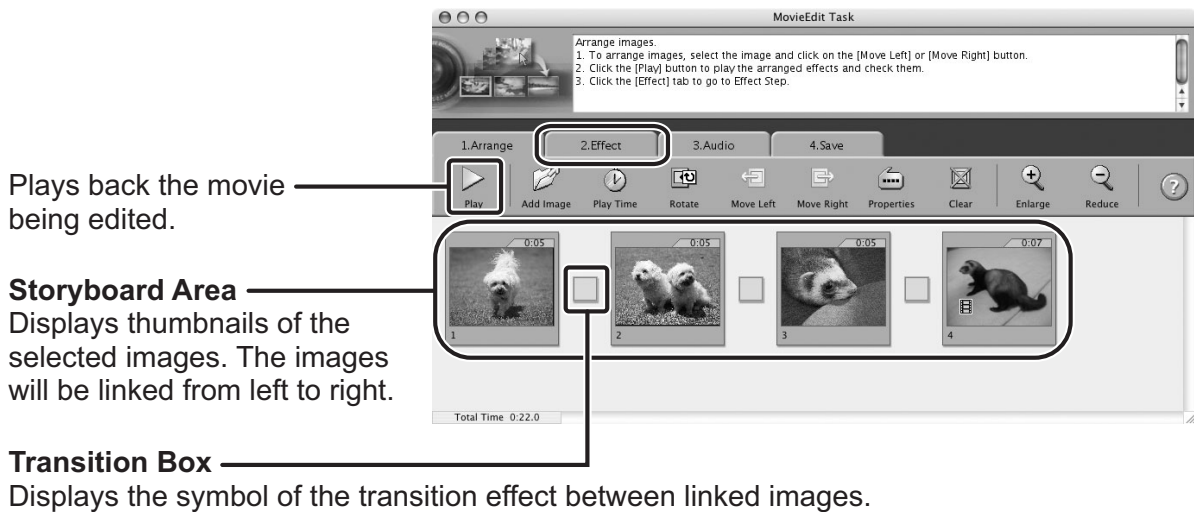You can link images, insert text and background music, and add effects.

1 **Select images in the Browser area.**

2 **From the [Edit] menu, select [Movie Edit].**

Edit	View	Internet	Window	Help
Undo				⌘Z
Redo				⌘Y
Cut				⌘X
Copy				⌘C
Paste				⌘V
Copy Image...				
Edit still image				▶
Movie Edit...				
Extract frames from a movie...				
Edit with Registered Application				▶
Keyword				▶
Change Star Rating				▶

3 **Arrange images and click [2.Effect].**
- To change the order of images, select an image and click [Move Left] or [Move Right].
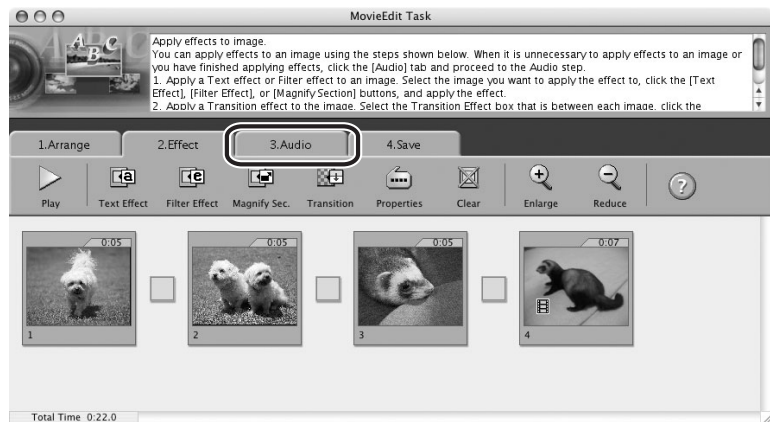- Operational instructions are displayed in the upper section of the window.

Plays back the movie being edited.

Storyboard Area
Displays thumbnails of the selected images. The images will be linked from left to right.

Transition Box
Displays the symbol of the transition effect between linked images.
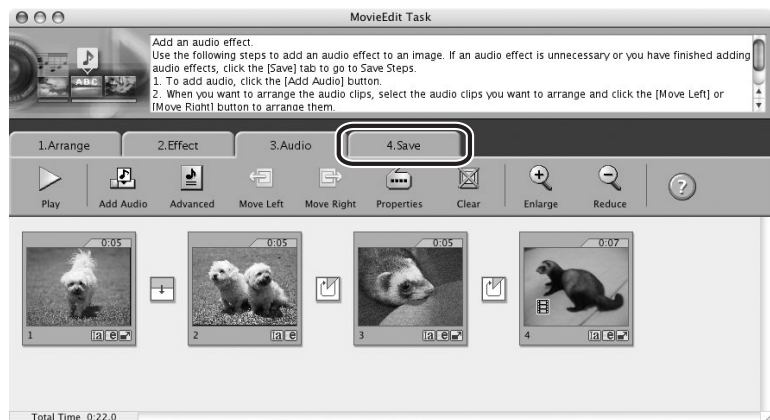
Macintosh

4 Apply effects to the images and click [3.Audio].

To set a transition effect, you need to select a transition box in the Storyboard Area.

5 Set the audio and click [4.Save].

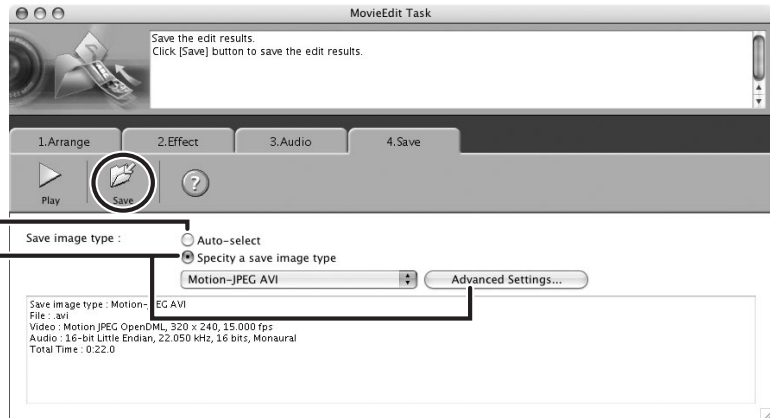You can add an MP3, AIFF or WAV file as audio.

6 Select a file type and click [Save].

• Select the destination folder, input the file name and click [Save].
• To exit MovieEdit Task, from the [MovieEdit Task] menu, select [Quit MovieEdit Task].
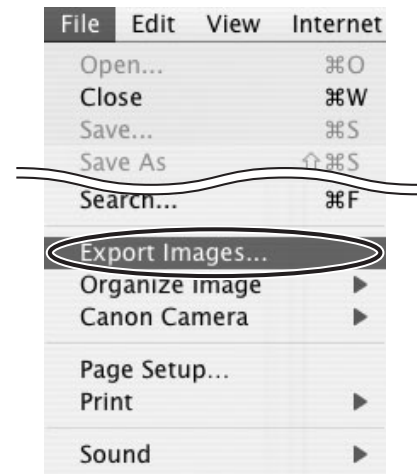
Select this to save as Motion JPEG compressed AVI.

Select this to save as either Motion JPEG compressed AVI or QuickTime movie. After selecting the data type, click [Advanced Settings] that allows you to set [Size], [Frames per Second] or [Quality] settings of the movie.

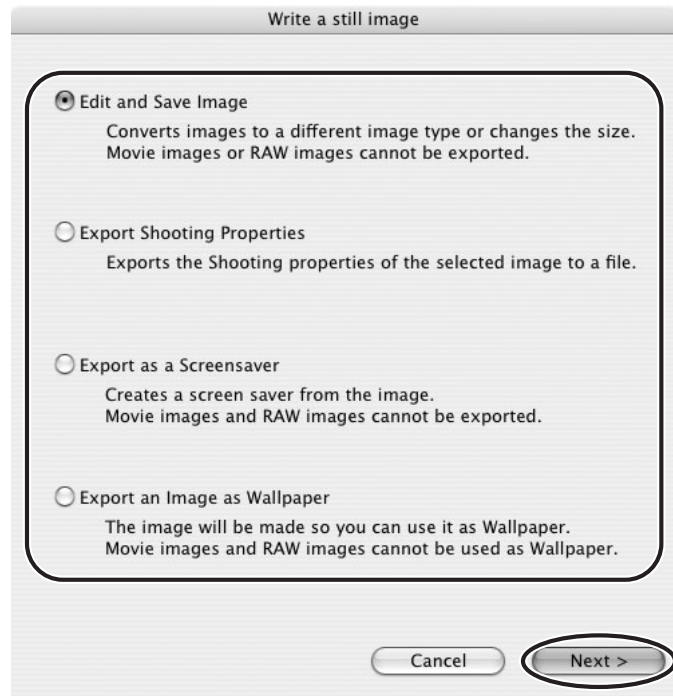**Macintosh**

Exporting Images

Changing the File Type and Save

This task allows you to change the size, resolution or data for of selected still images and save them as new files and allows to save the shooting properties of the still images and movies to text files or copy them with new names.

1 **Select an image you wish to export and [Export Images] from the [File] menu.**

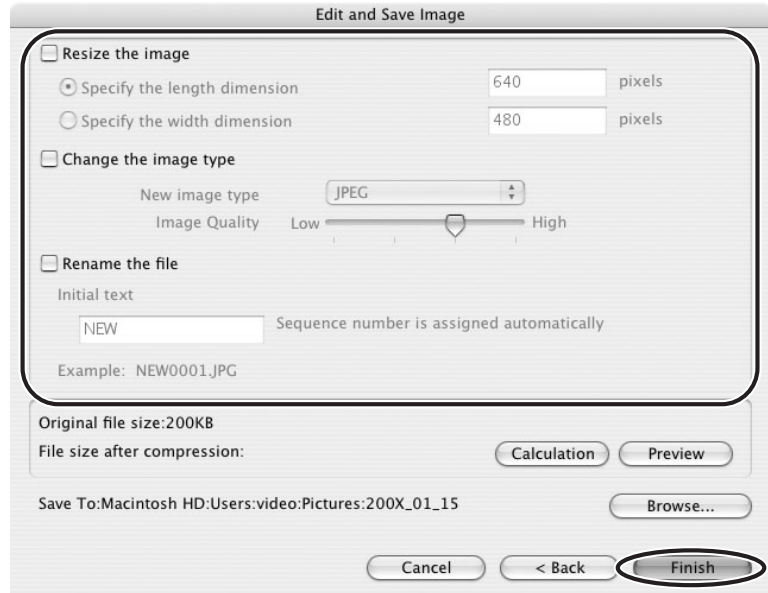**2** **Select exporting type and click [Next].**

3 Specify the export settings and click [Finish].

The window varies depending on the selected export type in step 2.

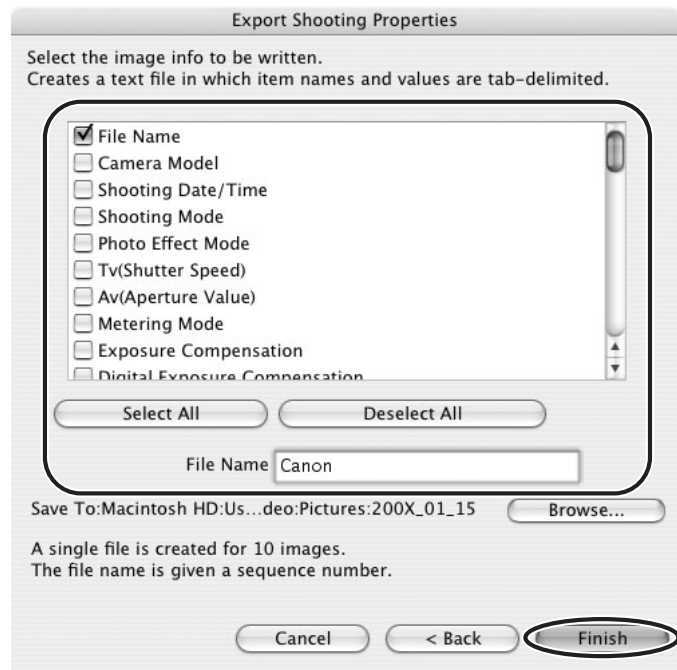**When you have selected [Edit and Save Image]:**
You can convert still images to another file type, resize and save them as new files. You can select the file type from BMP, PICT, JPEG and TIFF. You can also specify a prefix to be added to the exported still images.

When you have selected [Export Shooting Properties]:
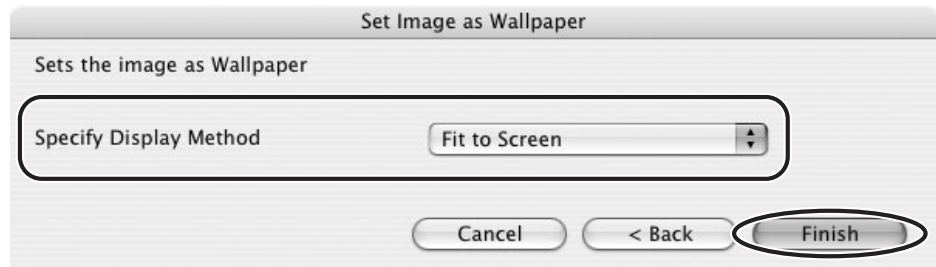You can select information you wish to export and save as a text file.

When you have selected [Export as a Screensaver]:
You can export and save the image as a screen saver.

Export as a Screensaver

The selected image will be exported as a screen saver.

Name of Screen Saver

Animal

Save To

Macintosh HD:Users:video:Library:Screen Savers

Cancel   < Back   Finish

When you have selected [Export an Image as Wallpaper]:
You can export and save the image as a desktop wallpaper. This task cannot be performed if you have selected multiple images.
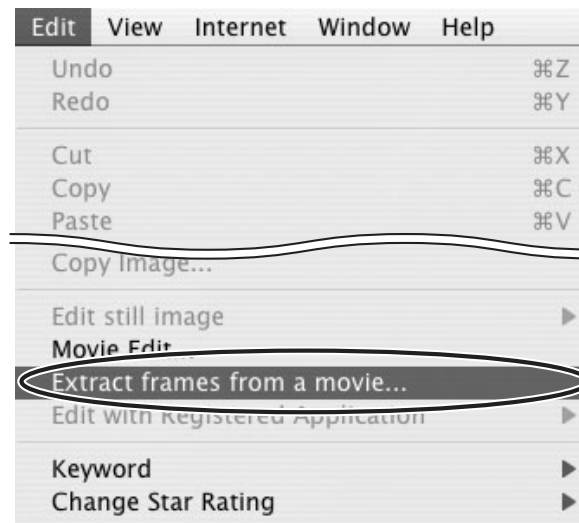
Set Image as Wallpaper

Sets the image as Wallpaper

Specify Display Method   Fit to Screen

Cancel   < Back   Finish

Extracting Still Images from Movies

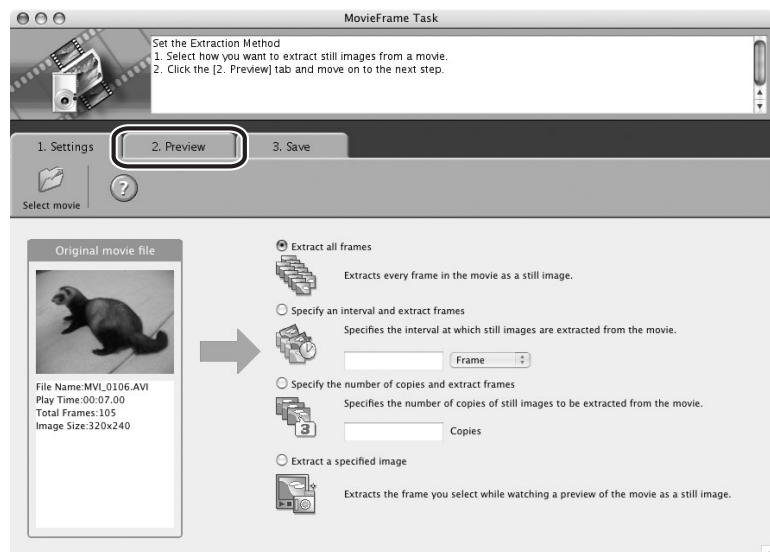You can extract still images from movies and save them as image files.

1 **Select a movie and select [Extract frames from a movie] from the [Edit] menu.**

2 **Set the still image extraction method and click [2. Preview].**
- [Extract all frames]: Extracts all frames in the movie as still images.
- [Specify an interval and extract frames]: Extracts frames as still images from a specified frame range or time interval.
- [Specify the number of copies and extract frames]: Extracts a specified number of still images from the entire movie. The extraction interval is calculated based on an equal distribution of the specified number of still images.
- [Extract a specified image]: Extracts still images from scenes that catch your attention.

Macintosh

3 Check the extracted still images and click [3. Save].

4 Specify the file name and the folder where you wish to save it and click [Save].

Adding Still Images from Your Computer to the Memory Card

You can save still images from the computer to a memory card. You can also save sample images for card mix from the DIGITAL VIDEO SOLUTION DISK.

Only still images with JPEG compression can be saved to the memory card. TIFF, PICT and BMP will be converted to JPEG compression and save to the memory card.
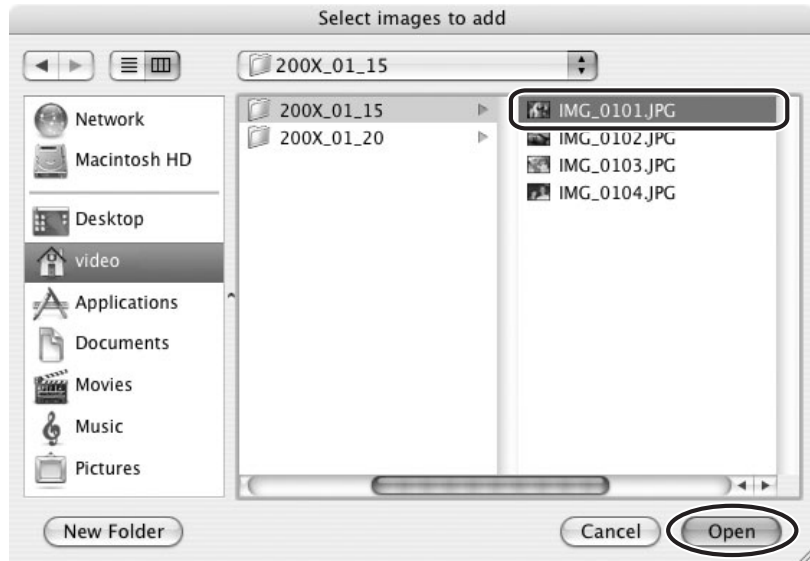
■ Adding Still Images to the Memory Card

1 Connect the camcorder to the computer (□ 25).

2 Click the [Set to Camera] tab in the Camera Control window, and [Uploads images to the camera].

3 Select the still image you wish to add and click [Open].

You can check the selected image by clicking the file name.

4 In the Add image window, select the image size and click [Add].

- The selected images will be recorded to the memory card.
- When recording is complete, the images will appear in the CameraWindow.

■ Adding Sample Images to the Memory Card

You can save sample images to be used with the Card Mix function to the memory card in the camcorder or in a card reader/writer. The sample images are provided on the DIGITAL VIDEO SOLUTION DISK.

> The sample images provided on the supplied DIGITAL VIDEO SOLUTION DISK are intended only for personal use with this camcorder. Do not use these sample images for other purposes.

1 Insert the DIGITAL VIDEO SOLUTION DISK to the computer's CD-ROM drive.

2 Connect the camcorder to the computer (📖 25).

3 **Click the [Set to Camera] tab in the Camera Control window, and [Uploads images to the camera].**

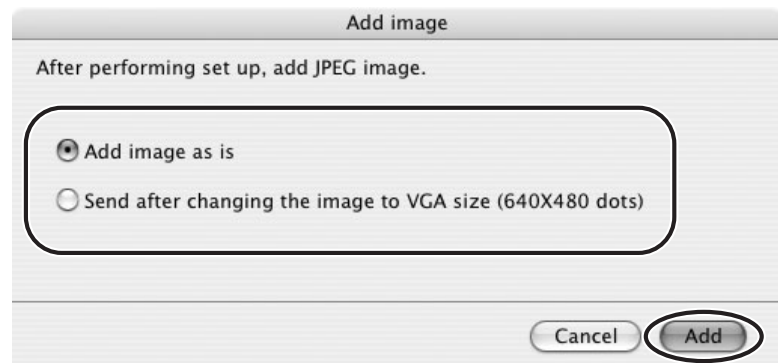**4** **Double-click the CD-ROM icon, followed by the [DVC CARD IMAGE] folder.**

Macintosh

5 Open the [CARD LUMINANCE] folder, select the image you wish to copy to the camcorder and click [Open].

Select images to add

CARD LUMINANCE

CARD LUMINANCE ▶	AUT_0009.JPG
	AUT_0010.JPG
	AUT_0011.JPG
	AUT_0012.JPG
	AUT_0013.JPG
	AUT_0116.JPG
	AUT_0117.JPG

- Network
- Macintosh HD
- CanonDVC✱✱M ⏏
- Desktop
- video
- Applications
- Documents
- Movies
- Music
- Pictures

New Folder   Cancel   Open

6 In the Add image window, click [Add].

Add image

After performing set up, add JPEG image.

◉ Add image as is

○ Send after changing the image to VGA size (640X480 dots)

Cancel   Add

Using Various Functions

Attaching Images to E-mail Messages

You can attach selected images to an E-mail message.

1 **Select the images you wish to send in the Browser Area.**

2 **From the [Internet] menu, select [Create Image for Email].**

Internet	Window	Help

Create Image for Email...

Canon Digital Camera Web Site...

3 **Specify the image size and click [Next].**

When you select [Send without changing the file size], move on to step 5.

Create Image for Email

You can create a image appropriately sized for sending via e-mail.
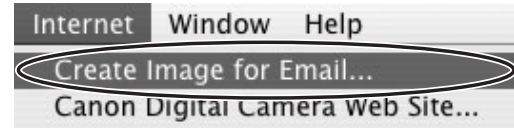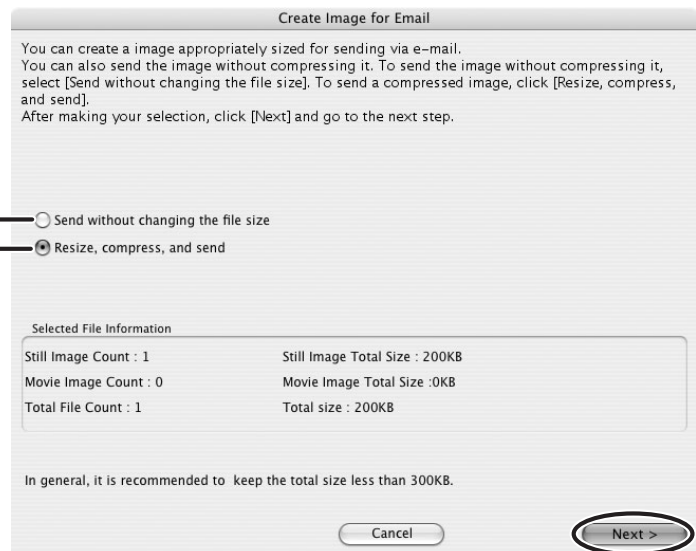You can also send the image without compressing it. To send the image without compressing it,
select [Send without changing the file size]. To send a compressed image, click [Resize, compress,
and send].
After making your selection, click [Next] and go to the next step.

Select this if you do not wish to reduce the size of the still image. ——○ Send without changing the file size

Normally, select this option. ——⦿ Resize, compress, and send

Selected File Information

Still Image Count : 1	Still Image Total Size : 200KB
Movie Image Count : 0	Movie Image Total Size :0KB
Total File Count : 1	Total size : 200KB

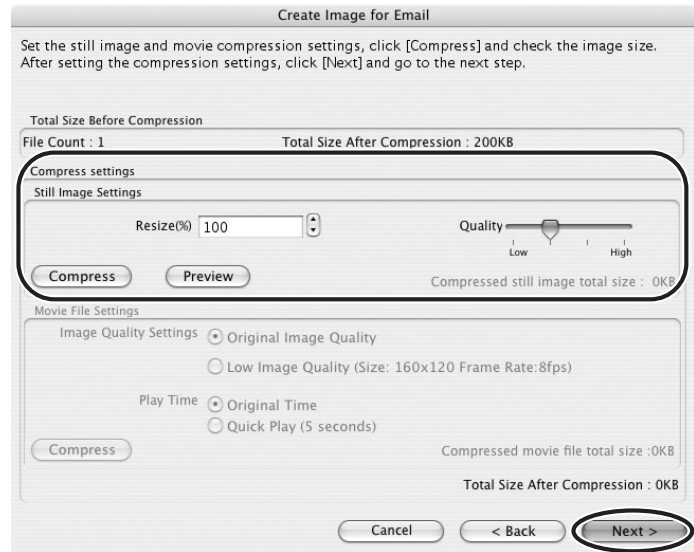In general, it is recommended to keep the total size less than 300KB.

Cancel   Next >

Macintosh

4 Specify the reduction ratio and image quality and click [Next].
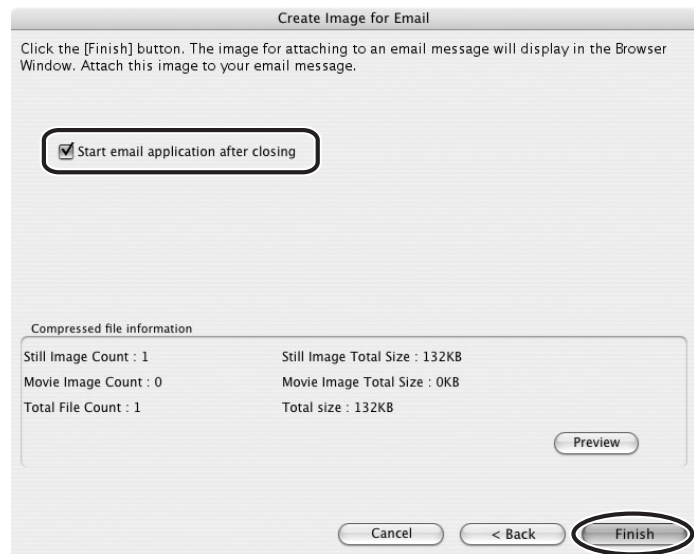
- [Resize(%)]: Select the reduction ratio relative to the original size of the image.
- [Quality]: Select the image quality. The lower the quality, the rougher the image becomes, but the size of the file also becomes smaller.
- [Compress]: Use it to check the file size when you actually compress the image. The file size appears next to "Total Size After Compression".
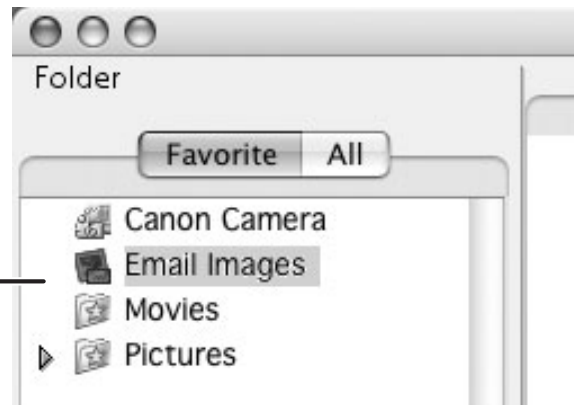
5 Select whether you wish to start your e-mail software and click [Finish].

- If you have selected [Start email application after closing], your e-mail software starts automatically. Open a new e-mail message and attach the image. With some types of e-mail software, you can attach images to e-mail messages simply by dragging them from the Browser Area to the new message window.
- Click [Preview] to check the changed image.
- The image will be saved to the [Email Images] folder in the explorer view section.

Create Image for Email

Click the [Finish] button. The image for attaching to an email message will display in the Browser Window. Attach this image to your email message.

☑ Start email application after closing

Compressed file information

Still Image Count : 1	Still Image Total Size : 132KB
Movie Image Count : 0	Movie Image Total Size : 0KB
Total File Count : 1	Total size : 132KB

Preview

Cancel   < Back   Finish

Folder

Favorite   All

Canon Camera

Explorer View Section ——— Email Images

Movies

▷ Pictures

○ You can set the e-mail software to start automatically in step 5. Note that some e-mail software may not start automatically. For details, please refer to the Help menu of the OS you are using.

○ The images in the [Email Images] folder are saved in the following location: Open the [Users] folder, followed by [User login name], [Library], [Preferences], [ImageBrowserUserData], and [Mail].
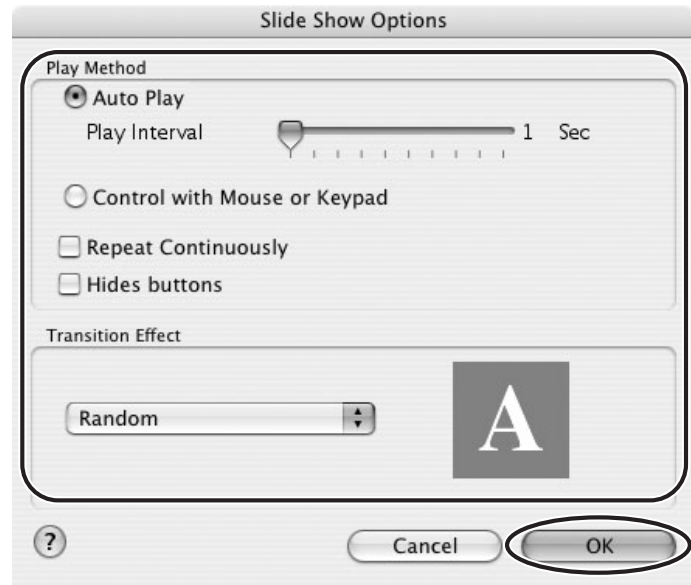
Macintosh

Running a Slide Show

1 **From the [View] menu, select [Slide Show Options].**

```
View   Internet   Window   Help
New Browser Window

View Mode                    ▶
View Settings                ▶
Sort                         ▶

Show Shooting Information

Slide Show
Slide Show Options...

Refresh                    ⌘R
```

2 **Select the slide show settings and click [OK].**
- [Auto Play]: Select the interval by sliding the control under [Play Interval] (from 1 to 30 seconds).
- [Control with Mouse or Keypad]: Advances the slide show manually with the mouse or keyboard.
- [Repeat Continuously]: Runs the slide show in a loop.
- [Hides buttons]: Hides the buttons during the slide show.
- [Transition Effect]: Select the transition effect to be used when moving from one slide to another. When you select an effect, you can check the effect in the preview window.

```
              Slide Show Options

Play Method
   ● Auto Play
      Play Interval    ●————————  1   Sec
                       ¡ ¡ ¡ ¡ ¡ ¡ ¡ ¡ ¡ ¡

   ○ Control with Mouse or Keypad

   ☐ Repeat Continuously
   ☐ Hides buttons

Transition Effect

   [ Random             ⬍ ]     A

   (?)                    ( Cancel )   ( OK )
```

3 **Select the images and select [Slide Show] from the [View] menu.**

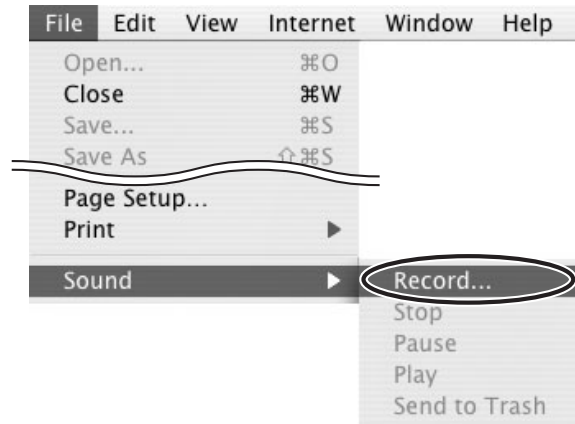Click 🗐 on the lower right of the screen to end the slide show.

Adding Sound to a Still Image

- To add sound to still images, use the MAC OS recording function. Depending on the computer, you may need to connect peripherals such as microphones. Check if your computer settings allow recording.
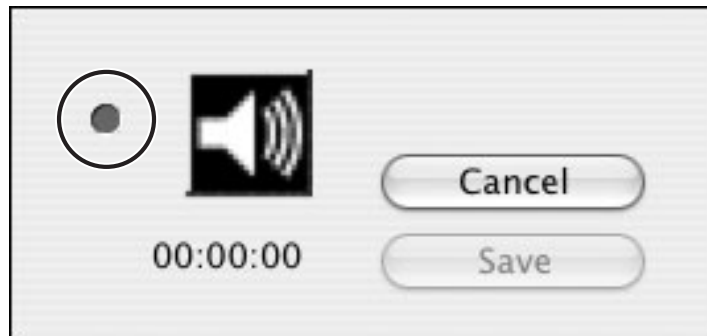- The sound cannot be played back on the camcorder.

1 In the Browser Area, select a still image and select [Sound] ▶ [Record] from the [File] menu.

The recording window appears.

2 Click ◉ and start recording when the [Save] button is enabled.

3 Click [Save] to stop recording.

- 🎵 appears on the still image.
- The sound file will be copied in AIFF type (extension ".AIF") to the same folder as the still image.
- To play back the sound, select an image with a sound icon and select [Sound] ▶ [Play] from the [File] menu.

○ To remove sound from a still image, select [Sound] ▶ [Send to Trash] from the [File] menu. 🎵 disappears and the copied sound file will be deleted.
○ While playing back the sound, select [Sound] ▶ [Pause] or [Stop] to control the status.

Macintosh

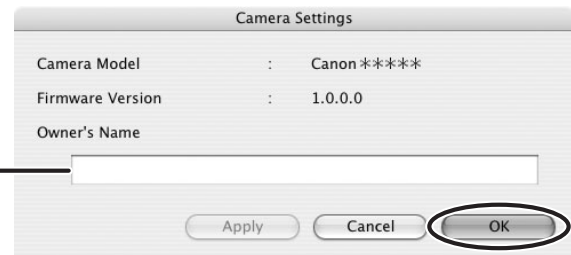## Reviewing and Changing the Owner Name of the Camcorder

You can change and confirm the owner name of the camcorder.

1 **Click the [Set to Camera] tab and click [Confirms/changes camera settings] in the Camera Control window.**

2 **Change the settings of the camcorder and click [OK].**

Input a camcorder owner name here (up to 31 characters).

Uninstalling the Software

Uninstall the software when you wish to delete it from your computer or when reinstallation is required to fix corrupted files.

Uninstalling ImageBrowser

Move the program's folder contain subfolders into the Trash to uninstall programs such as ImageBrowser.

- ○ If the program folders contain subfolders into which images have been saved, be careful not to accidentally delete those subfolders.
- ○ For more details on how to uninstall ImageBrowser, refer to Read Me.

Macintosh

Troubleshooting

Connection

? **Camcorder is not recognized when connected to the computer.**

→ **There is no memory card in the camcorder.**
Insert a memory card into the camcorder.

→ **The camcorder is not set to the correct mode.**
Turn the POWER switch to PLAY (VCR)/PLAY and move the TAPE/CARD switch to CARD.

→ **Camcorder is not correctly connected to the computer.**
Read *Connecting the Camcorder to a Computer* (25) and check the connection.
Ensure that you are using the correct cable and that its connectors are in good shape.

→ **If you are experiencing operational problems, detach the USB cable from the camcorder and computer and terminate the connection. Restart the computer and then reconnect the camcorder.**

ImageBrowser Operation

? **Cannot download images**

→ **The camcorder is not set to the correct mode.**
Turn the POWER switch to PLAY (VCR)/PLAY and move the TAPE/CARD switch to CARD.

? **Image files or folders do not appear in ImageBrowser.**

→ **Images or folders shown in ImageBrowser and the actual file contents may be different.**
Click the [View] menu and select [Refresh].

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The information on this manual is verified as of January 1st, 2006.