Canon

Digital Video Software [Windows]

Version 17 / Version 18

Instruction Manual

Canon   Please Select Language

English

Français

Español

Exit

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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
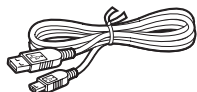
The explanations in this manual use mainly Windows XP screen shots. The steps and windows may vary depending on your computer and the version of software.

System Requirements

Please install the software on a computer meeting the following minimum requirements.

OS:	Windows 98 (Second Edition) Windows Me Windows 2000 (Service Pack 4) Windows XP Home Edition or Professional (Service Pack 1 or 2) * Proper operation is not guaranteed on an OS that has been upgraded from a previous version.
Computer Model:	Computers that come with above OS preinstalled and have built-in USB ports.
CPU:	Pentium 500 MHz or better
RAM:	Windows 98/Windows Me: 128 MB or more Windows 2000/Windows XP: 256 MB or more
Interface:	USB: only preinstalled Windows 98/Windows Me/Windows 2000/Windows XP systems with built-in USB ports

Free Hard Disk Space:	• Canon Utilities
	  - ZoomBrowser EX: 250 MB or more (Including the PhotoRecord printing program)
	  - PhotoStitch: 40 MB or more
	• Canon DV TWAIN Driver: 25 MB or more
	• Canon DV WIA Driver: 25 MB or more

Display:	1024 × 768 pixels or better/High Color (16 bit) or better

> ○ Proper operation is not guaranteed on a dual CPU PC or on a user-built PC.
> ○ Proper operation is not guaranteed on any particular system, even if it meets the requirements outlined above.
> ○ A CD-ROM drive is required to install the software.

In this Instruction Manual, product names are abbreviated as follows:

Microsoft® Windows® 98 Second Edition:	Windows 98
Microsoft® Windows® Millennium Edition:	Windows Me
Microsoft® Windows® 2000 (Service Pack 4):	Windows 2000
Microsoft® Windows® XP Home Edition or Professional (Service Pack 1 or 2):	Windows XP

What is Digital Video Software

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

■ ZoomBrowser EX

- Viewing downloaded images
- Categorizing, organizing, and searching large volumes of images
- Editing still images
- Editing movies recorded on a memory card
- Changing the data for still images and save them as new files
- Viewing still images in a slide show
- Adding sound to an image

■ CameraWindow

- Downloading images from a memory card to your computer
- Viewing images recorded on a memory card
- Applying DPOF (Digital Print Order Format) settings
- Uploading My Camera settings to the camcorder

■ PhotoStitch

Merging a series of overlapping still images into a single, seamless panorama

■ PhotoRecord

- Printing still images with background, frame, title and comments
- Printing indexes
- Creating still image albums

■ USB Driver

- Driver software that enables you to download images from a memory card to a computer. Users of Windows XP do not need to install this driver software. An OS standard driver will be installed automatically.
- Windows 98/Windows 2000: Canon DV TWAIN Driver
- Windows Me: Canon DV WIA Driver

■ Canon USB Video Driver

If your camcorder is listed in the table below, you can perform the following by connecting the camcorder to a computer with preinstalled USB 2.0 Hi-Speed using a USB cable.
- Capturing movies from the tape to the computer.
- Recording movies that have been edited on a computer to the tape.
- Converting analog signals from a connected VCR or 8mm camcorder to digital signals and transferring them to the computer. For details, refer to the camcorder instruction manual.

OPTURA 60	OPTURA 500	OPTURA 600

Canon USB Video Driver will not be installed when installing Digital Video Software. For details, see *About Canon USB Video Driver* (83) or *Installing the Canon USB Video Driver* (84).

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.

Installing the Digital Video Software

⚠️ ○ Be sure to install the Digital Video Software before connecting the camcorder to the computer.
○ Users of Windows 2000 or Windows XP must first log in as an Administrator to install programs.

📝 **Windows XP Users:**
Your digital video camcorder is equipped with the standard Picture Transfer Protocol (PTP). This protocol enables you to download images by simply connecting the camcorder to a computer with the USB cable (the software such as the [Scanner and Camera Wizard] starts automatically).
However, please note that there are several limitations to downloading images with this method. To avoid these problems, install ZoomBrowser EX to download images.
   - It may take a few minutes, after connecting the camcorder, until you can download images.
   - Images protected on the camcorder may lose this setting once they are downloaded to the computer.

1 **Check a camcorder is not connected to the computer.**
While a camcorder is connected to the computer, the software cannot be installed normally. If a camcorder is connected, detach the USB cable from the computer.

2 **Close any programs that are running.**

3 **Set the DIGITAL VIDEO SOLUTION DISK in the computer's CD-ROM drive.**
If the installer panel does not open automatically, use the following procedures to display it.
   - Windows 98/Windows Me/Windows 2000:
      1) Double-click the [My Computer] icon.
      2) Right-click the CD-ROM icon and select [Open] from the displayed menu.
      3) Double-click the [SETUP.exe] icon.
   - Windows XP:
      1) Select [My Computer] from the [start] menu.
      2) Right-click the CD-ROM icon and select [Open] from the displayed menu.
      3) Double-click the [SETUP.exe] icon.
   Depending on the setting of your computer, the file extension ".exe" may not appear.

4 **Select your language.**

5 Click Digital Video Software [Install].

Installer Panel ——

Canon

DIGITAL VIDEO
....
Solution Disk

Digital Video Software

Install

Canon USB Video Driver [Windows XP only]

Install

QuickTime

Install

Exit

If the following dialog appears, click [Restart] to restart the computer. After restarting the computer, installation automatically continues.

InstallShield

Setup has completed configuring the Windows Installer on your system. The system needs to be restarted in order to continue with the installation. Please click Restart to reboot the system.

Restart

6 Click [Next].

Canon Digital Video Solution Disk

Welcome to the InstallShield Wizard for Solution Disk

The InstallShield® Wizard will install Solution Disk on your computer. To continue, click Next.

< Back   Next >   Cancel

Windows

Installing the Digital Video Software | **9**

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

To install the software individually, select [Custom Installation]. When you select [Custom Installation], select a USB driver. (Windows XP: The USB driver supplied with the Windows operating system is used. You do not need to install a USB driver.)
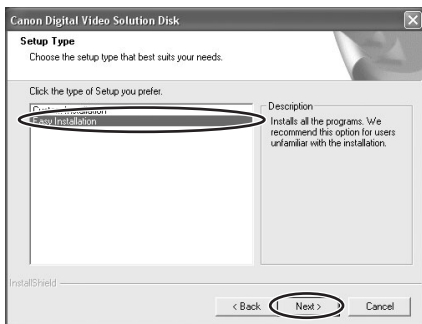• Windows 98/Windows 2000: Canon DV TWAIN Driver
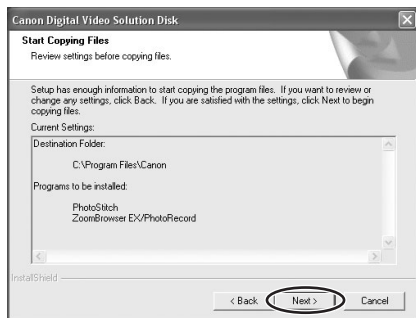• Windows Me: Canon DV WIA Driver

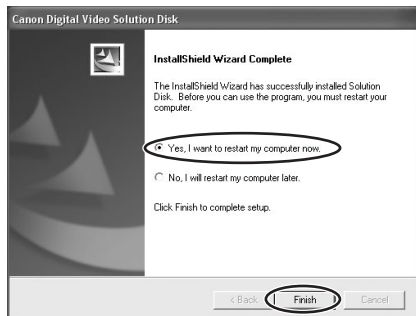## 8 Select your country/region and click [Next].

9 Read the license agreement and click [Yes].

10 Review the installation settings and click [Next].

• Installation starts.
• If the "Digital signature not found" message appears, click [Yes].

11 **When installation is complete, select [Yes, I want to restart my computer now.] and click [Finish].**

Canon Digital Video Solution Disk

InstallShield Wizard Complete

The InstallShield Wizard has successfully installed Solution Disk. Before you can use the program, you must restart your computer.

⦿ Yes, I want to restart my computer now.

○ No, I will restart my computer later.

Click Finish to complete setup.

< Back   Finish   Cancel

12 **When the computer has restarted and the regular desktop screen is displayed, remove the DIGITAL VIDEO SOLUTION DISK from the CD-ROM drive.**

When installation is complete, remove the DIGITAL VIDEO SOLUTION DISK before you connect the camcorder to the computer.

Windows 98/Windows Me/Windows 2000: At this point, the files for the TWAIN Driver or WIA Driver have only been copied to your computer. To download images via USB connection, finish installing the TWAIN Driver or the WIA Driver. For details, see step 4 (12) in *Connecting the Camcorder to a Computer*.

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 computer. The camcorders may not operate normally.
- ○ **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.**
- • **The first time you connect the camcorder to the computer:**
  - Installation of the DV TWAIN Driver (Windows 98/Windows 2000) or the DV WIA Driver (Windows Me) starts.
  - If the "Digital signature not found" message appears, click [Yes].
  - If you are prompted to restart the computer, restart the computer.
- • Windows 98/Windows 2000/Windows XP: A window appears allowing you to select an application program to start.
  Windows Me: The Scanners and Cameras Wizard starts. Click [Cancel] to close the Wizard.

• For instructions on how to start ZoomBrowser EX and download images to the computer, see *Downloading Images (ZoomBrowser EX)* (□ 14).

USB Terminal
on the Camcorder

USB Cable

◄── Camcorder End   Computer End ──►

USB Port on
the Computer
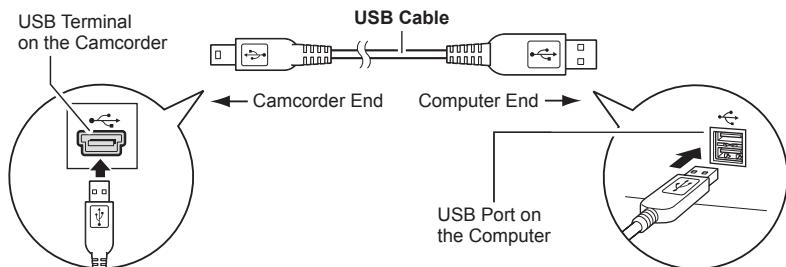
E

Windows

Downloading Images (ZoomBrowser EX)

⚠ ○ 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.
○ **For Windows XP Users:**
  - Do not rotate the image in the [Windows Picture and Fax Viewer] or in the explorer view. The data for the original image will be changed and the image can no longer be displayed in ZoomBrowser EX or on the camcorder.
  - A movie file exceeding 210 MB cannot be downloaded.
  - If the Server Busy window appears when you connect the camcorder to the computer, click [Retry].
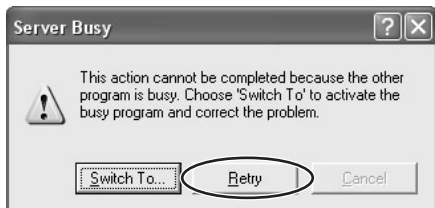
○ You cannot connect the camcorder to a computer if the memory card contains more than 1800 images. For best performance, we recommend keeping the number of images on the memory card below 100 when downloading images to the computer.

✎ For instructions on how to connect a card reader/writer, see *Using a Card Reader/Writer* (📖 21).

Starting CameraWindow

1 **Connect the camcorder to the computer (12).**

2 **Select [Canon CameraWindow] and click [OK].**
   • If a camcorder and card reader are connected at the same time, a dialog appears allowing you to select the camcorder model. Confirm that [Canon Camera] or your camcorder model name is displayed and click [OK].
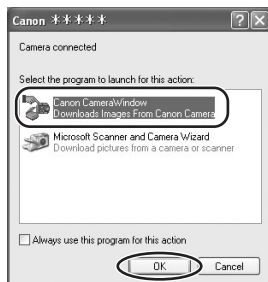
   • The Camera Control window opens.
   • If the window does not appear or if "PC CONNECT" does not appear on the camcorder screen, click the Windows [start] menu and select [All Programs], [Canon Utilities], [CameraWindow] and [CameraWindow].

Camera Control window

Images will be downloaded to the computer, and ZoomBrowser EX starts.

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

Placing a check mark here makes the Camera Control window to open automatically the next time you connect the camcorder.

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

○ (print/share) button may not be supported by your camcorder.
○ If the camcorder is already connected to the computer, you can start the CameraWindow and display the Camera Control window by clicking [Acquire & Camera Settings] followed by [Acquire Images] in the ZoomBrowser EX Main Window.
○ The Remote shooting function is not supported by your camcorder.

Using the Computer to Download Images

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

■ Auto-Downloading

1 Click [Starts to download images] in the Camera Control window.
   • For instructions on how to set the Auto-download settings, see *Auto-Downloading Settings* (□ 16).
   • Click [Finish] to close the Camera Control window after downloading images.
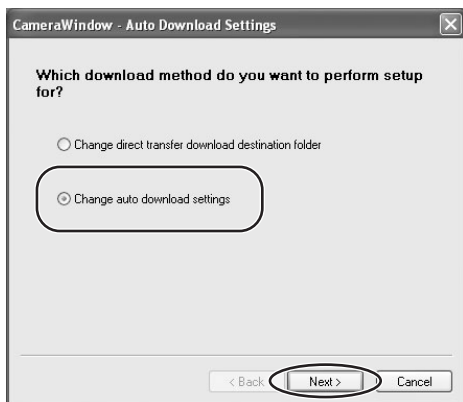
■ Auto-Downloading Settings

Select the setting for downloading images by operating your computer. You can change the image type and the destination folder.

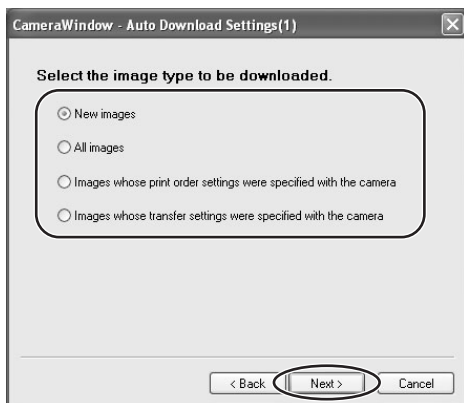# 1 In the Camera Control window, click the [Acquire Images] tab and click [Preferences].

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

CameraWindow - Auto Download Settings

Which download method do you want to perform setup for?

○ Change direct transfer download destination folder

◉ Change auto download settings
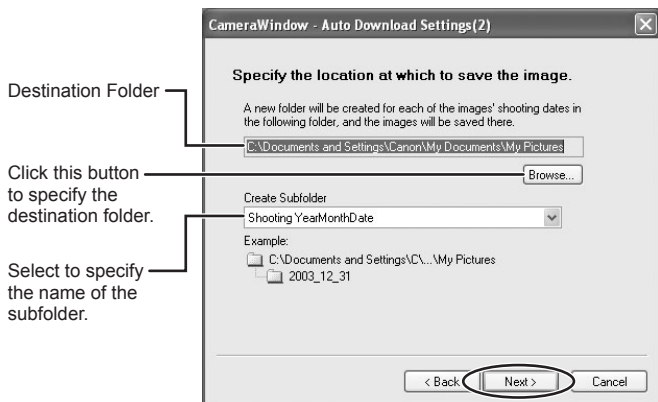
< Back   Next >   Cancel

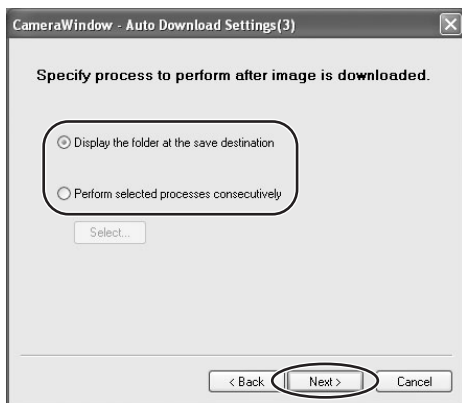## 3 Select the image type to be downloaded and click [Next].

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

CameraWindow - Auto Download 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

< Back   Next >   Cancel

Windows

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

Destination Folder

Click this button to specify the destination folder.

Select to specify the name of the subfolder.

CameraWindow - Auto Download Settings(2)

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.

C:\Documents and Settings\Canon\My Documents\My Pictures

Browse...

Create Subfolder

Shooting YearMonthDate

Example:

C:\Documents and Settings\C\...\My Pictures
2003_12_31

< Back   Next >   Cancel

5 **Specify a process to perform after the image is downloaded.**

CameraWindow - Auto Download Settings(3)

Specify process to perform after image is downloaded.

⊙ Display the folder at the save destination

○ Perform selected processes consecutively
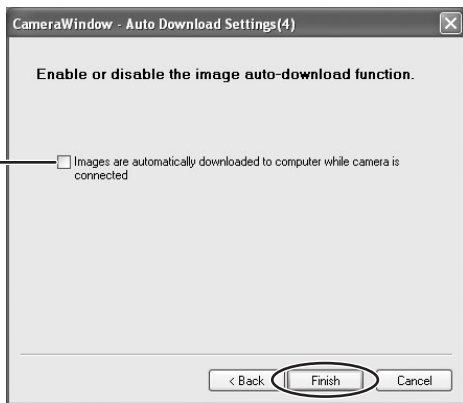
Select...

< Back   Next >   Cancel

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].

Select Process

Please select a task to run after your images have been downloaded:

- ⦿ View as a Slide Show
- ○ Layout Print
- ○ Contact Sheet Print

(OK)

6 Click [Finish].

CameraWindow - Auto Download Settings(4)

Enable or disable the image auto-download function.
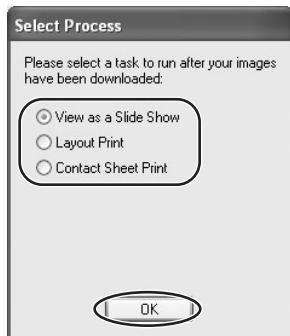
Placing a check mark here makes images in the camcorder to be automatically downloaded when the camcorder is connected.

☐ Images are automatically downloaded to computer while camera is connected

< Back (Finish) Cancel

■ Downloading the Selected Images from the CameraWindow

1 Click [Lets you select and download images] in the Camera Control window.

The CameraWindow opens.

2 In the CameraWindow, select the image you wish to download and click [Download pictures].

- Clicking on 2 images while holding down the [Shift] key selects also all images between the 2 images.
- Clicking on different images while holding down the [Ctrl] key selects multiple images.

A blue frame appears around the selected image.

Image Information

> If [Night], [SUPER NIGHT], [SPOTLIGHT] or [SUNSET] are chosen as recording programs or if [SOFT SKIN DETAIL] is chosen as an image effect, this information may not be displayed in the Image Information.

3 Confirm the settings and click [Starts Download].

ZoomBrowser EX starts, and the downloaded images appear in the Main Window.

Settings for the file prefix
and the consecutive numbers

Setting for the folder and the
subfolder for downloaded images

■ Using a Card Reader/Writer

The basic operations of ZoomBrowser EX are the same as when you connect the camcorder to the computer. Follow the procedure below to open the CameraWindow. For instructions on how to connect the card reader/writer, please refer to its manual.

📝 If your card reader/writer does not support miniSD cards, please purchase an appropriate adapter for the card.

1 Insert a memory card containing images recorded with the camcorder into the reader.

2 Windows 98/Windows Me/Windows 2000: Click the Windows [Start] menu, and select [Programs], [Canon Utilities], [CameraWindow] and [CameraWindow].
Windows XP: When a window appears allowing you to select an application program to start, select [View/Download Images using Canon CameraWindow] and click [OK].

The Camera Control window opens.

3 Select a downloading method.

- [Starts to download images]: The progress bar will be displayed and images will be downloaded to the computer, and ZoomBrowser EX starts. For instructions on how to set the Auto-download settings, see *Auto-Downloading Settings* (☐ 16).
- [Lets you select and download images]: The CameraWindow opens, displaying the camcorder images as thumbnails (small images).

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 凸 ∿ button, operate the direct transfer menu using the SET dial. For details, please refer to the instruction manual of your camcorder.

■ Direct Transfer

1 Select a transfer option on the camcorder screen and press the 凸 ∿ button.

- 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 step 3 (☐ 17) in *Auto-Downloading Settings*.
- The 凸 ∿ button cannot be used when it is not lighted.

- You can set the action that is carried out for direct transfer. Right-click the [CameraWindow(Launcher)] icon on the taskbar and select an action from the displayed menu.

- [Show image(s) in fullscreen mode]: Displays downloaded images in full screen mode.
- [Launch ZoomBrowser EX]: Starts ZoomBrowser EX after downloading the images.
- [Show Window]: The Camera Control window appears when you connect the camcorder to the computer.

✔ Show image(s) in fullscreen mode
✔ Launch ZoomBrowser EX

✔ Show Window

About CameraWindow(Launcher)...

Exit

2 Press the ⎙∿ button on the camcorder.

■ **Setting the Direct Transfer Download Destination Folder**

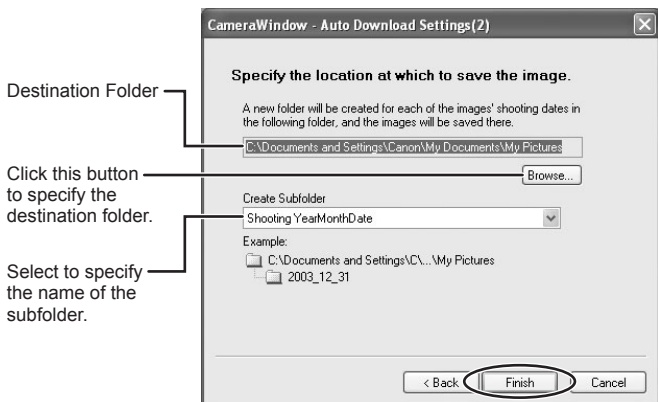**1 In the Camera Control window, click the [Acquire Images] tab and click [Preferences].**

CameraWindow - Canon ✳✳✳✳✳

Acquire Images et to Camera Remote shooting

Downloads using camera

Press the camera's button

Downloads using computer

Starts to download images

Lets you select and download images

☑ Displays this screen when the camera is connected

Preferences...   Finish

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

CameraWindow - Auto Download Settings

Which download method do you want to perform setup for?

⊙ Change direct transfer download destination folder

○ Change auto download settings

< Back   Next >   Cancel

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

CameraWindow - Auto Download Settings(2)

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.

Destination Folder ── C:\Documents and Settings\Canon\My Documents\My Pictures

Click this button to specify the destination folder. ── Browse...

Create Subfolder

Shooting YearMonthDate

Example:

Select to specify the name of the subfolder. ──

📁 C:\Documents and Settings\C\...\My Pictures
  📁 2003_12_31

< Back   Finish   Cancel

ZoomBrowser EX Windows

This section explains the windows of ZoomBrowser EX. If you wish to start ZoomBrowser EX without connecting the camcorder or card reader/writer, double-click the on the desktop, or click the Windows [start] menu and select [All Programs] ▶ [Canon Utilities] ▶ [ZoomBrowser EX] and [ZoomBrowser EX]. To exit ZoomBrowser EX, click ⊠ or select [Exit] from the [File] menu.

Main Window

ZoomBrowser EX's Main Window features various buttons and an image display area.
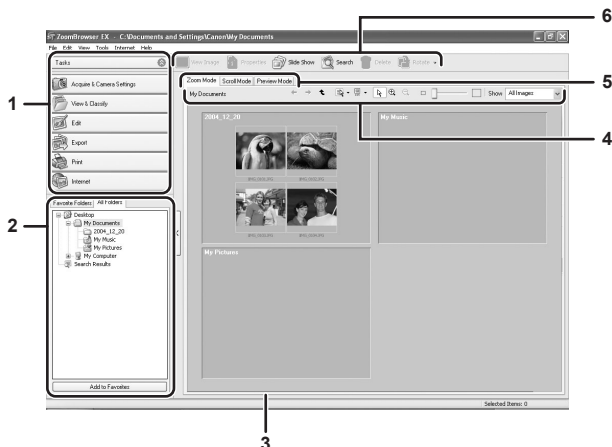
1 Task Area

[Acquire & Camera Settings]:	Use this to display the Camera Control window to download images and configure the camcorder settings.
[View & Classify]:	Use this to view and organize images.
[Edit]:	Use this to edit images.
[Export]:	Use this to change the data for still images and save them as new files, back up to CD-R/RW, or export shooting properties to a text file.
[Print]:	Use this to print selected images.
[Internet]:	Use this to attach selected still images to E-mail messages.

2 Folders Area

You can select a folder to be displayed in the Browser Area. Selecting the [Favorite Folders] tab shows only the folders that are registered as Favorites. To register folders as Favorites, follow the instructions below.

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

When the [Favorite Folders] tab is selected:
Click [Add] and select a folder.

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

3 Browser Area

This area displays the images contained in the selected folder.

- ○ Clicking on 2 images while holding down the [Shift] key selects also all images between the 2 images.
- ○ Clicking on different images while holding down the [Ctrl] key selects multiple images.

4 Browser Area Tool Bar

The menu items vary depending on the View Mode.

1	**Previous/Next**	Displays the previous/next image in the current folder.
2	**Up**	Displays the folder in the upper tiers of the hierarchy.
3	**Select**	Allows you to select all images and deselects images.
4	**Information**	Allows you to select the information to be shown.
5	**Zoom Slider**	Enlarges/Reduces the thumbnails in the Browser Area.
6	**Show**	Allows you to select displayed images according to the star rating.

5 View Mode

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

[Zoom Mode]: The images in the selected folder are shown as thumbnails.
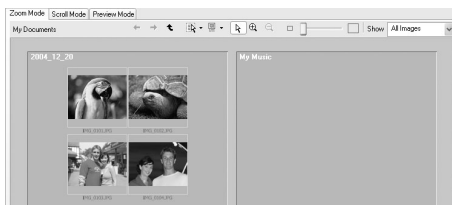
[Scroll Mode]: Thumbnails of the images are displayed next to the folder name. Clicking a folder displays enlarged images. Selecting [Preferences] from the [Tools] menu opens the [Preferences] window, on which you can select the hierarchy of folders.
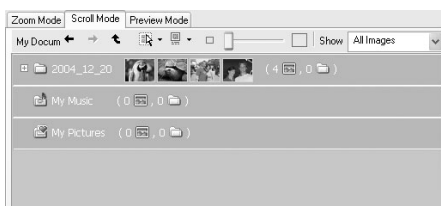
[Preview Mode]: A large image is displayed along with detailed information. You can change file name and comments. To display another image, click [Previous]/ [Next] or select an image shown at the bottom of the window.

6 Application Tool Bar

1	**View Image**	Displays a selected image in the [Image Viewer] window.
2	**Properties**	Displays properties of the selected image. When you select a different image while the [Properties] window is open, the information switches to the one of the selected image. The [Properties] window cannot be displayed in [Preview Mode].
3	**Slide Show**	Displays still images in a slide show.
4	**Search**	Allows you to search for images (□ 35).
5	**Delete**	Deletes selected images.
6	**Rotate**	Rotates selected still images. A movie cannot be rotated.

[Image Viewer] Window

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

1	**Previous/Next**	Displays the previous/next image in the current folder.
2	**Edit**	Allows you to perform red-eye correction, image correction, trimming or to register external image editing applications. This button cannot be activated when multiple images are selected.
3	**Show**	Allows you to display multiple images at the same time.
4	**Synchronize**	Synchronizes the View functions across all displayed images.
5	**Zoom In/Zoom Out**	Enlarges/decreases an image.
6	**Pan**	When the image is larger than the window, you can move the image in the desired direction.
7	**Auto Focus Frame**	This function cannot be used for the images recorded by the camcorder.
8	**Fit to Window**	Matches the image size to the size of the Image Viewer Window.
9	**Zoom Slider**	Allows you to enlarge/decrease the displayed image.
10	**Show Image Full Screen**	Displays an image in full screen size.
11	**Change the Star Rating**	Allows you to change the star rating.

Windows

[Red Eye Correction] Window
Selecting [Red Eye Correction] from the [Edit] menu or the ![Edit] icon allows you to correct the red eye effect on an image in the [Red Eye Correction] window.
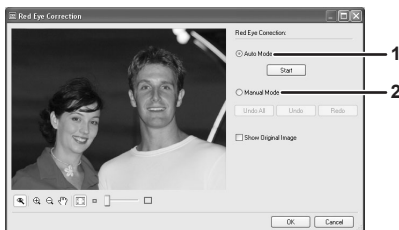
1	Auto Mode	Clicking [Start] corrects the red eye effect automatically.
2	Manual Mode	Point the cursor on a red eye so that the area is highlighted green, and left-click the mouse.

[Image Correction] Window
Selecting [Image Correction] from the [Edit] menu or the ![Edit] icon allows you to change the brightness, saturation, contrast, and RGB of the image.

[Trim Image] Window
Selecting [Trim] from the [Edit] menu or the ![Edit] icon allows you to crop an image. Either drag the mouse on the image or specify the cropping area, and click [Trim Image].
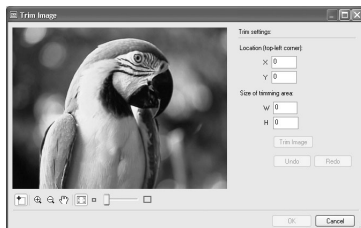
Organizing Images

Applying Star Ratings and Keywords

E

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 keyword can be used as one of the search conditions.

1 Select the image to which you wish to apply the Star Rating or Keyword, and select [View/Modify Keywords] from the [Tools] menu.

Tools Internet Help
Search...
View/Modify Keywords...
Manage Keywords...
Stitch Photos...
Process RAW Images...
Customize...
Preferences...
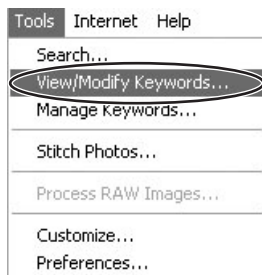
2 Place a check mark next to the keyword you wish to apply, or click on the stars for rating.
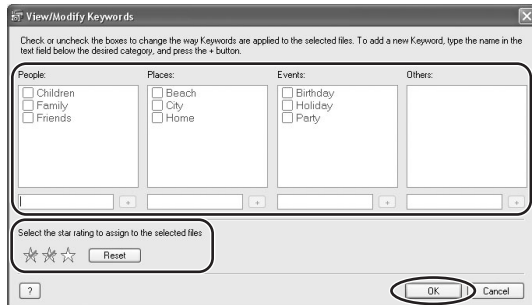
Windows

- ○ The default setting of the Star Rating is two stars.
- ○ You can display images according to Star Rating by selecting [Filter by Star Rating] from the [View] menu.
- ○ You can add and delete keywords, or change the keyword list in the [Manage Keywords] window by selecting [Manage Keywords] from the [Tools] menu.

Organizing Images **31**

Classifying the Images

This task allows you to classify selected images according to the shooting date.

1 **Click [View & Classify] in the Main Window.**
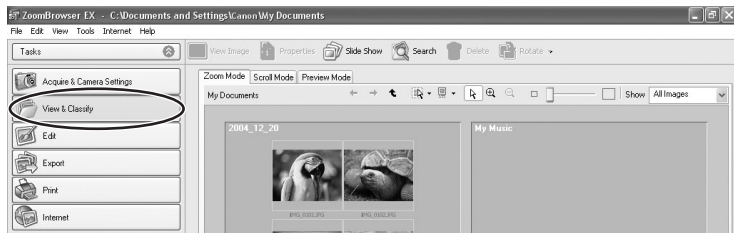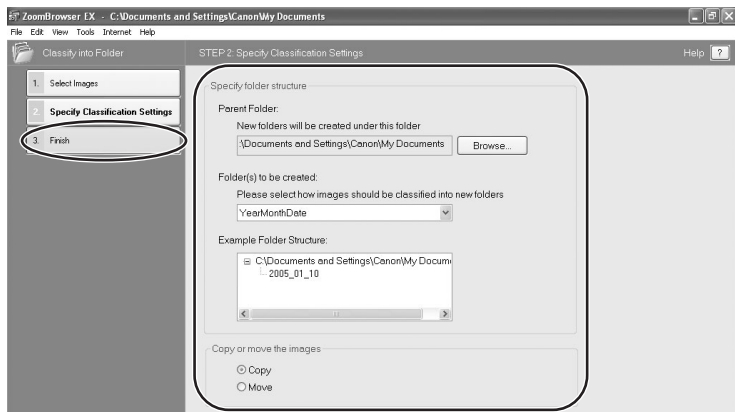

2 **Click [Classify into Folder].**

3 **Select the images you wish to classify and click [Specify Classification Settings].**

4 Specify the settings and click [Finish].

The selected images are classified into the specified folder.

Renaming Multiple Files

This task allows you to rename multiple files at the same time, or to rename and copy multiple files.

1 Click [View & Classify] in the Main Window.

2 Click [Rename Multiple Files].

3 **Select the images you wish to rename and click [Specify Rename Settings].**
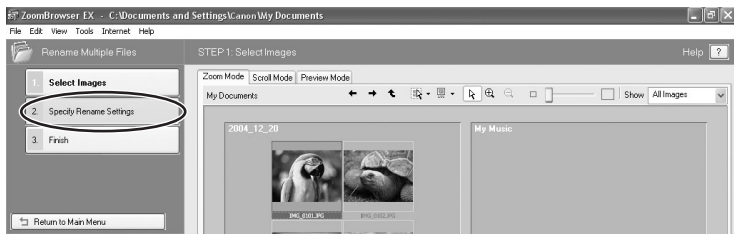
4 **Specify the settings and click [Finish].**
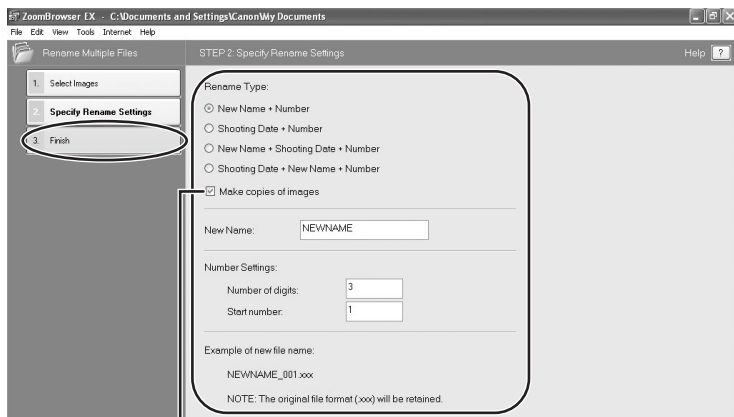
Placing a check mark here makes copies of images with new names. The name of the original images will not be changed.

To rename a folder, select a folder, and open the [Rename Folder] window by selecting [Rename] from the [File] menu. Input the new name, and click [OK].

Searching for Images

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

1 Click [View & Classify] in the Main Window.

You can also search for images by clicking [Search] on Application Tool Bar. Please skip forward to step 3.

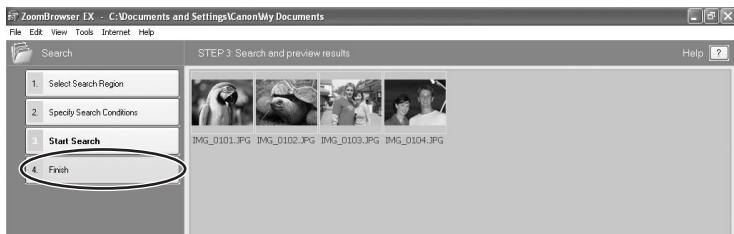## 2 Select folders and images from which you wish to search and click [Search].

Windows

3 Specify the search conditions and click [Start Search].

- The search results are displayed as thumbnails.
- Select at least one search condition.
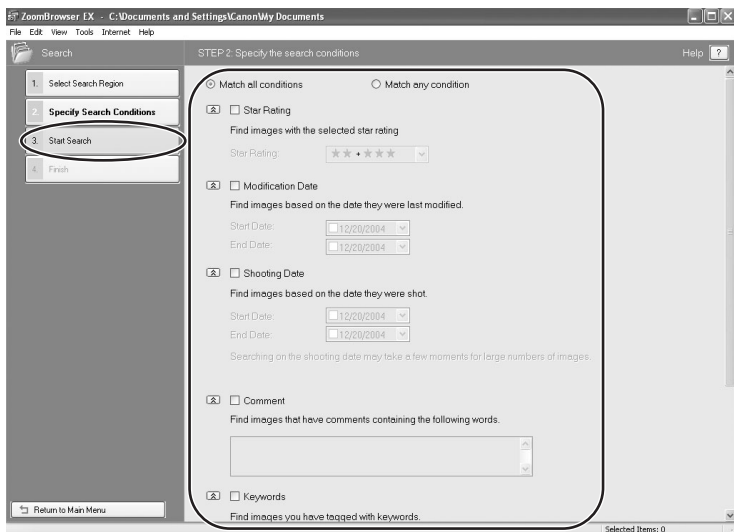
4 Click [Finish].

- To change the search parameters and perform another search, click [Specify Search Conditions] and repeat steps 3-4.

• 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 ZoomBrowser EX is closed or another search is performed.
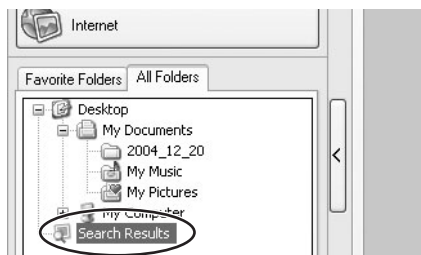
Playing Back and Editing Movies

Playing Back Movies

In the CameraWindow and Main Window, movies are displayed with the first scene as a still image with a ▣ (movie) icon. When you double-click the thumbnail in the Main Window, QuickTime Player starts and plays back the movie.
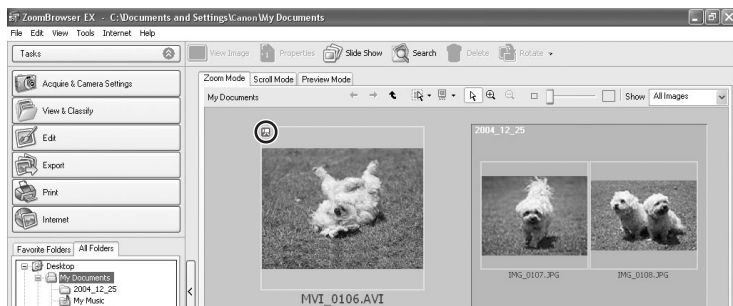
○ If QuickTime 5.0 or a later version is not already installed on your computer, install the QuickTime from the DIGITAL VIDEO SOLUTION DISK. Place the disk in the CD-ROM drive and click QuickTime [Install] in the installer panel.
○ Do not double-click a movie file (.AVI extension) in Windows Explorer. That will start Windows Media Player, which may not support this file type. To play back movies, double-click the thumbnail with a movie icon in the Main Window's Browser Area.
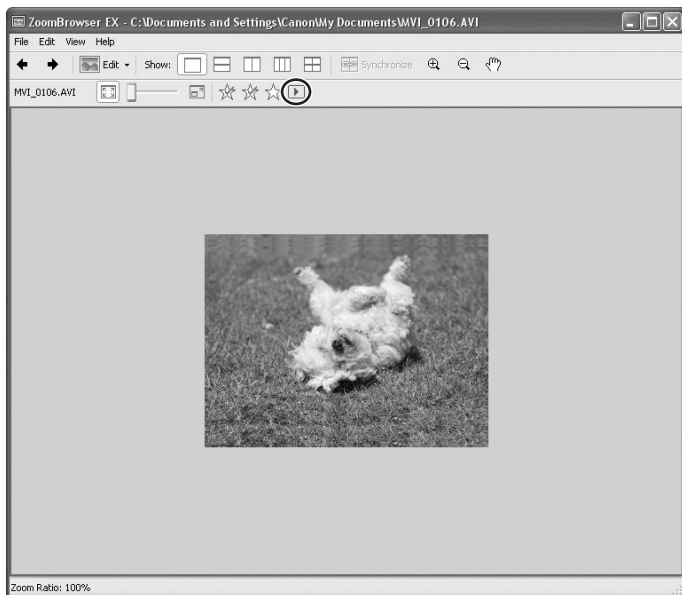
1 In the Main Window, double-click a thumbnail with a ▣ (movie) icon.

[Image Viewer] window appears.

2 Click the ▶ (Play) button in the [Image Viewer] window.

The movie will be played back.

Editing Movies

You can link images, insert text and background music, and add effects. You can also change the size of selected movies and save them as new files.
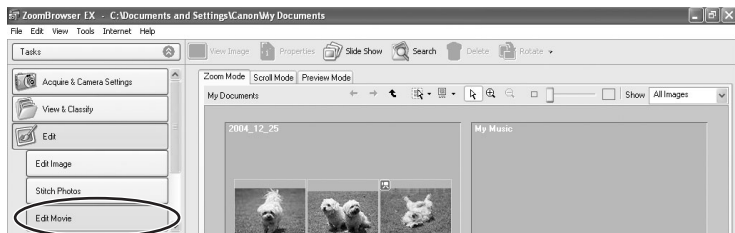
> ⚠ QuickTime 5.0 or a later version is required to edit movies. If it is not already installed on your computer, install it from the DIGITAL VIDEO SOLUTION DISK. Place the disk in the CD-ROM drive and click QuickTime [Install] in the installer panel.

1 Click [Edit] in the Main Window.

Playing Back and Editing Movies | **39**
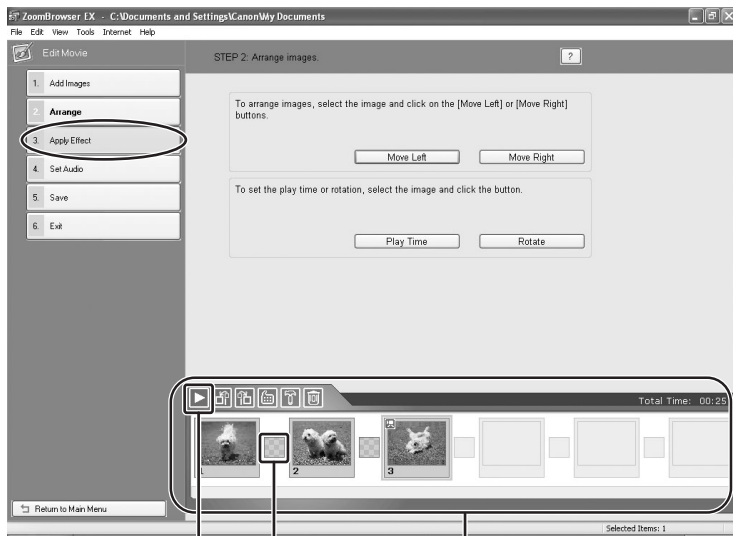
2 Click [Edit Movie].

3 Select images and click [Arrange].

You can select multiple images or a folder to include all images in that folder.

4 Arrange images and click [Apply Effect].

To change the order of images, select an image in the Storyboard Area and click [Move Left] or [Move Right].

Plays back the movies
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.

5 Apply effects to the images and click [Set Audio].

When you select [Apply effects to image.], you can use the following functions.
- [Text Effect]: Opens the [Text Effect Settings] window. You can enter text, change the font and preview the effect.
- [Filter Effect]: Opens the [Filter Effect Settings] window. You can set the filter effect type, the start and end point, and preview the effect.
- [Magnify Section]: Allows you to view a part of the image in enlarged size.
- [Transition Effect]: Opens the [Transition Effect Settings] window. You can set the transition effect type and display time, and preview the effect. To set a transition effect, you need to select a transition box in the Storyboard Area.
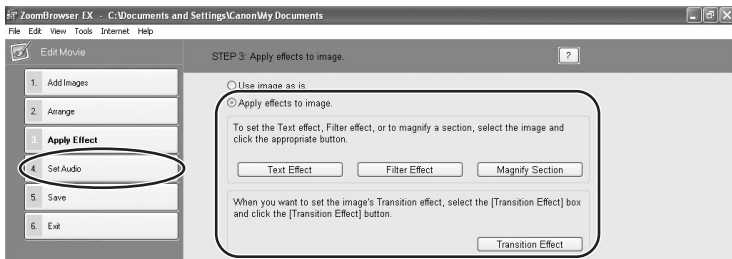

6 Set the audio and click [Save].

When you select [Set audio.], you can use the following functions.
- [Add Audio]: Opens the [Add Audio] window. You can add a MP3 or a WAV file as background music.
- [Advanced Settings]: Opens the [Advanced Audio Settings] window. You can adjust the audio level of a movie or an audio file and apply audio faders. To set the advanced audio settings, you need to select a movie or an audio file which you added.
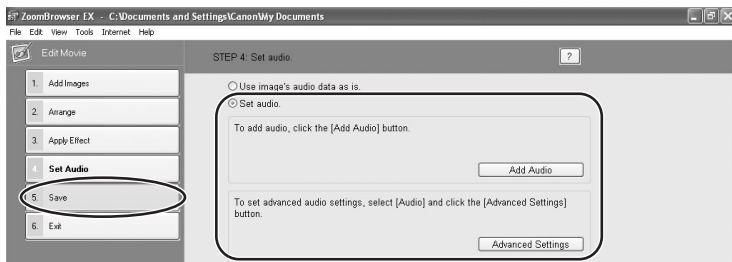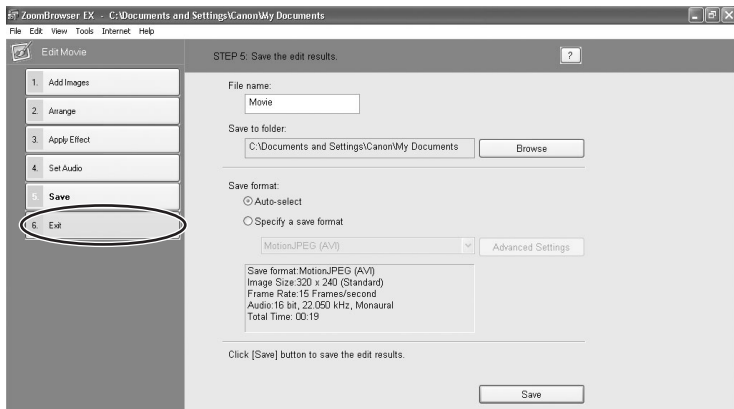
7 Click [Save].

Movies are saved in DCF format files with Motion JPEG/AVI compression.
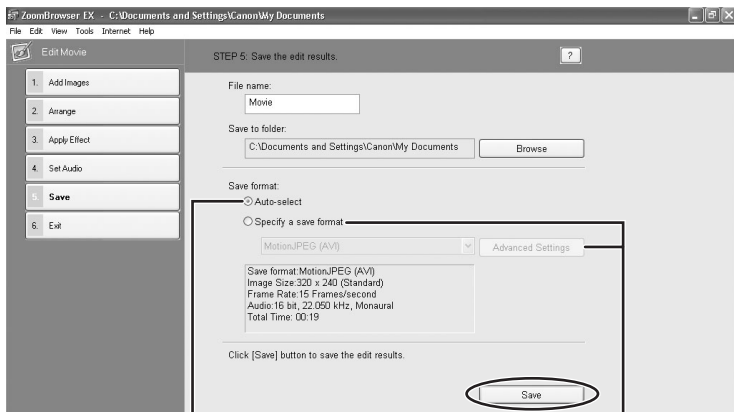
Select this to save as Motion JPEG compressed AVI.

Selecting [Specify a save format] and clicking [Advanced Settings] allows you to set [Image Size], [Frame Rate] or [Audio] settings of the movie.

8 Click [Exit].

Exporting Images

You can change the data type for selected still images and movies and save them as new files. You can also export selected movies and still image properties to a text file or copy and rename movies and still images. Furthermore, you can export still images for use as a screen saver or a wallpaper.

Changing the File Type and Save

1 Click [Export] in the Main Window.

2 Select the export type.

When you have selected [Export Movies], see *Exporting Movies* (📖 47).

### 3 Select images and click [Specify Export Settings].

4 Specify the export settings and click [Finish].

The window varies depending on the selected export type in step2.

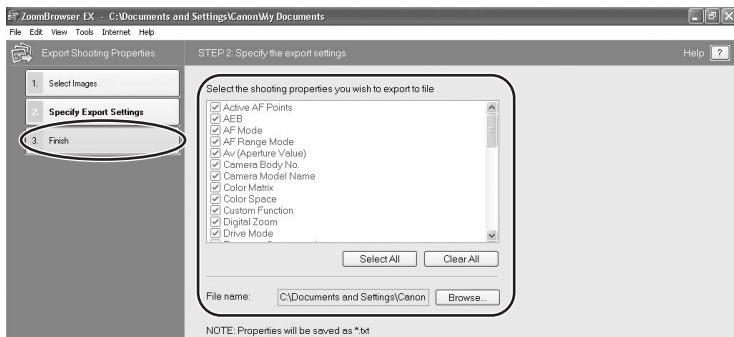**When you have selected [Export Still Images]:**
You can convert still images to another file type, resize and save them as new files. You can select the file type from BMP, JPEG and TIFF. You can also specify a prefix to be added to the exported still images.
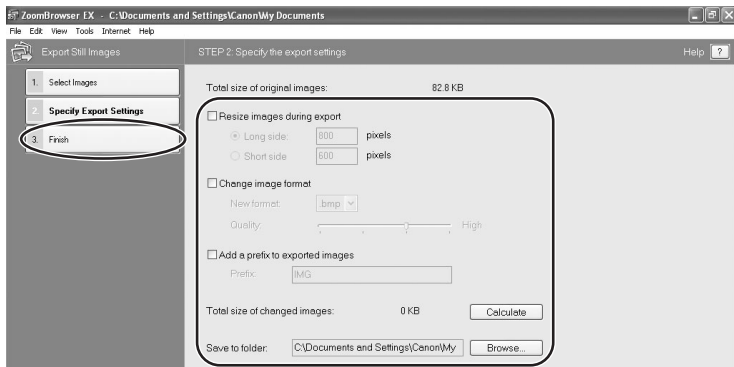
When you have selected [Export Shooting Properties]:
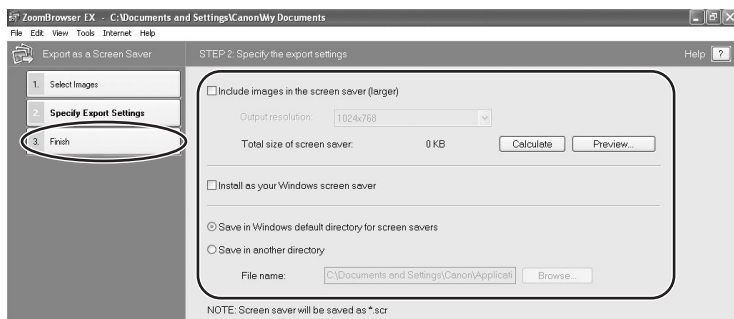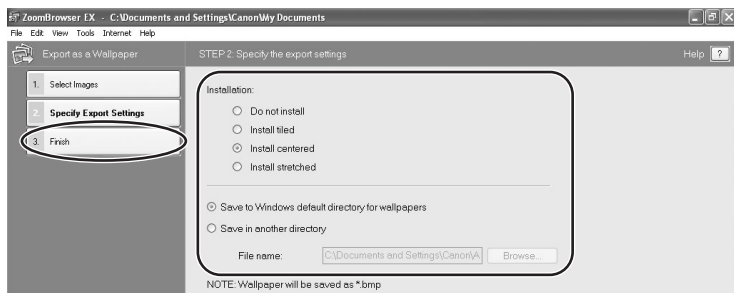You can select the information you wish to export and save as a text file.

Windows

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

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

Exporting Movies

You can change the size or data for selected movies and save them as new files.

⚠️ QuickTime 5.0 or a later version is required to export movies. If it is not already installed on your computer, install it from the DIGITAL VIDEO SOLUTION DISK. Place the disk in the CD-ROM drive and click QuickTime [Install] in the installer panel.

1 **Click [Export] in the Main Window.**

2 **Click [Export Movies].**
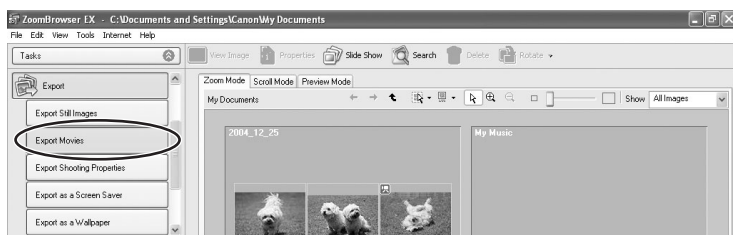
3 **Select a movie and click [Select the save format].**
You can select multiple images or a folder to include all images in that folder. Still images cannot be selected. For instructions on how to export still images, see *Exporting Images* (📖 44).

4 Select a file type and click [Set the save format].
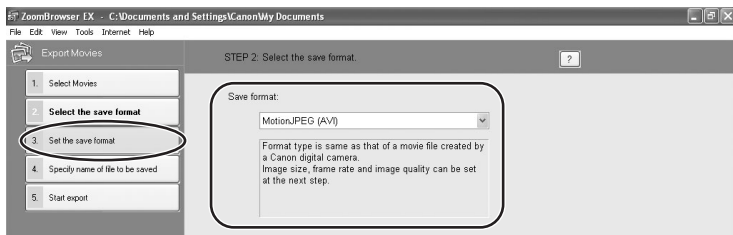
5 Specify the export settings and click [Specify name of file to be saved].
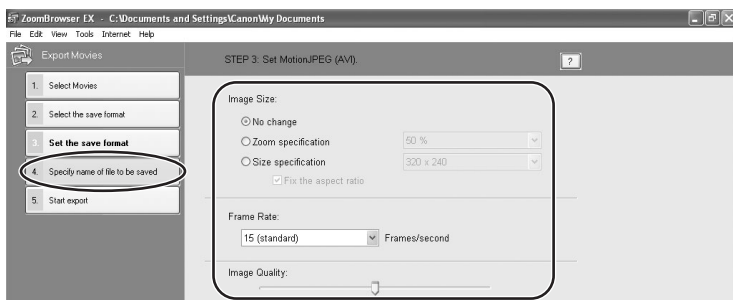
6 Specify the file name and click [Start export].

In each case, specify the destination folder and file name of the movie to be exported.
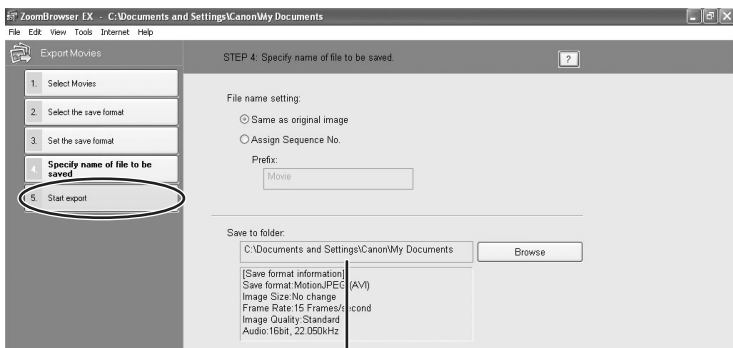
Destination Folder

7 Click [OK].

The Main Window appears.

MovieExport Task

Export is completed.

OK   Details >>

Saving on CD-R/RW Disks (Windows XP Only)

You can copy and save images to CD-R and CD-RW disks. The shooting information is copied along with the images.

> This function can only be used on a computer that came with a CD-R/RW drive as standard equipment.

1 Place a CD-R/RW disk in the computer's CD-ROM drive.

2 If the following window appears, click [Cancel].

CD Drive (F:)

Windows can perform the same action each time you insert a disk or connect a device with this kind of file:

Blank CD

What do you want Windows to do?

Open writable CD folder
using Windows Explorer

Take no action

☐ Always do the selected action.

OK   Cancel

3 Click [Export] in the Main Window.

ZoomBrowser EX - C:\Documents and Settings\Canon\My Documents

File Edit View Tools Internet Help

Tasks

View Image | Properties | Slide Show | Search | Delete | Rotate

Zoom Mode | Scroll Mode | Preview Mode

My Documents   Show | All Images

Acquire & Camera Settings

View & Classify

Edit

Export

Print

Internet

2004_12_20

My Music

IMG_0001.JPG   IMG_0002.JPG

Windows

Exporting Images **49**

4 **Click [Backup to CD].**

5 **Select the folders or images you wish to save and click
[Specify Backup Settings].**
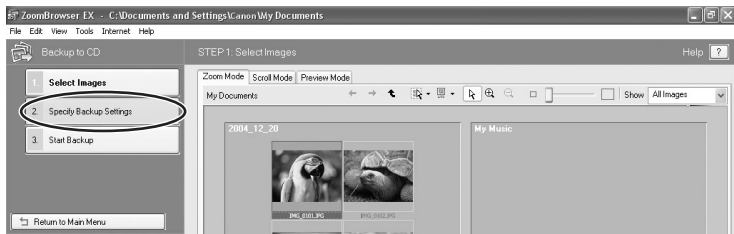
6 Set the backup settings and click [Start Backup].

The disk will be ejected from the drive when copying is complete.
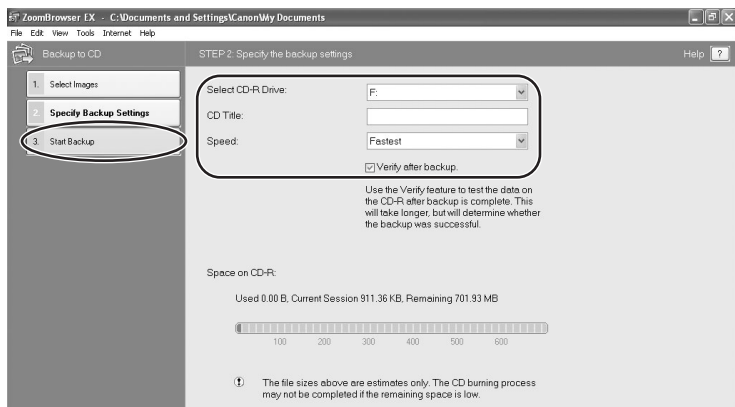
📝 You can add images to a CD-R/RW disk that already contains images.

Adding Still Images from Your Computer to the Memory Card

You can save still images (JPEG) from the computer to a memory card of the camcorder and a card reader/writer. You can also save sample images for card mix from the DIGITAL VIDEO SOLUTION DISK.

■ Adding Still Images to the Memory Card

1 Connect the camcorder to the computer (□ 12).

2 Click [Acquire & Camera Settings] in the Main Window.

Windows

Exporting Images **51**

3 Click [Set to Camera].

4 Click [Uploads images to the camera].

5 Select the still images you wish to save and click [Open].

6 Select the image size and click [Add].

Add image

Image will be added after setup is performed.

○ Add image as is
○ Add image after adjusting size

640 × 480

Add   Cancel
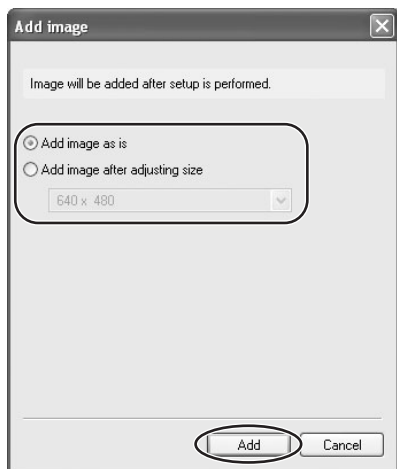
⚠️ When you upload images edited with another application, images properties may be lost.

■ Adding Sample Images to the Memory Card

You can save sample images for card mix to the memory card of the camcorder and a card reader/writer. CARD CHROMA, CARD ANIMATION, CARD LUMINANCE and CAMERA CHROMA 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 Connect the camcorder to the computer (□ 12).

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

If the installer panel opens, click [Exit] to close it.

Windows

3 Click [Acquire & Camera Settings].

4 Click [Set to Camera].

5 Click [Uploads images to the camera].

6 In [Look in:], select the CD-ROM icon, and double-click [DVC CARD IMAGE].

Sample images or folders for CAMERA CHROMA, CARD ANIMATION, CARD CHROMA and CARD LUMINANCE appear.
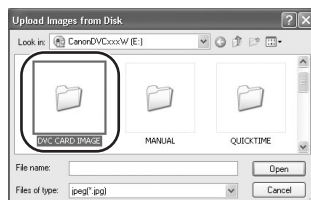
7 Select the sample images you wish to save and click [Open].

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

The sample images are saved in the memory card.

Exporting Images **55**

Using Various Functions

Attaching Still Images to E-mail Messages

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

> To use this function, the e-mail software must be enabled as MAPI client. For details, refer to the instruction manual of the e-mail software.

1 Click [Internet] in the Main Window.

2 Click [Email Images].

3 Select the still images you wish to send and click [Change Image Size].

## 4 Select image size and quality, and click [Send or Save].

If you wish to send the still image without changes, select [Send images unchanged]. Normally select [Resize and compress images into JPEG].
- [Resize image]: Select the reduction ratio to the original still image.
- [Image quality]: The lower the quality, the coarser becomes the still image and smaller the file size.
- Pressing [Apply] displays the file size after the compression as [Total size of changed images].
- You can check the compressed still image by pressing [View Images].
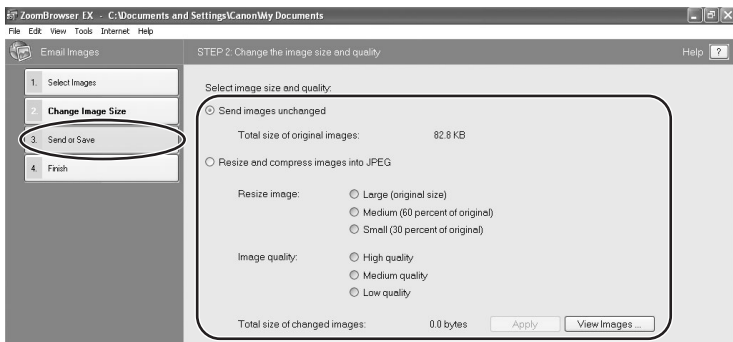
5 Select to send still images by e-mail or to save the still images in a folder and click [Finish].

- If you selected [Create a new email], your e-mail software starts and the selected still images appear as an attachment in the message window. Input address, subject and your comments and send the message. E-mail software not supporting MAPI does not start automatically. In this case, select [Save the images in a folder...].
- If you select [Save the images in a folder...], click [Browse] and select the destination folder. Start your e-mail software and attach the saved still image to a message.
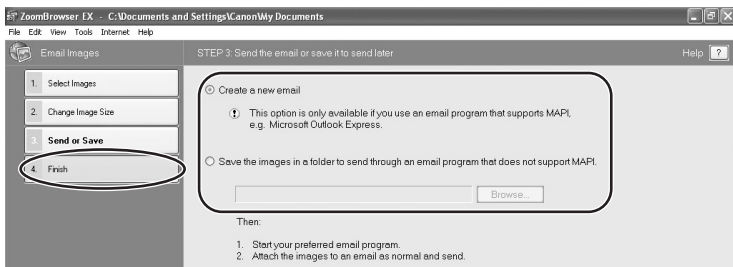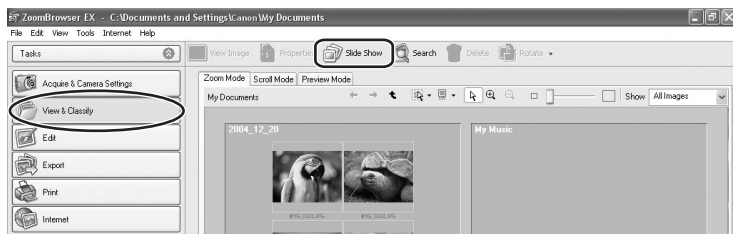
Running a Slide Show

You can view selected still images in a slide show. Movies cannot be selected for a slide show.

1 Click [View & Classify] in the Main Window.

You can also view a slide show by clicking [Slide Show] on Application Tool Bar. Please skip forward to step 4.

2 Click [View as a Slide Show].
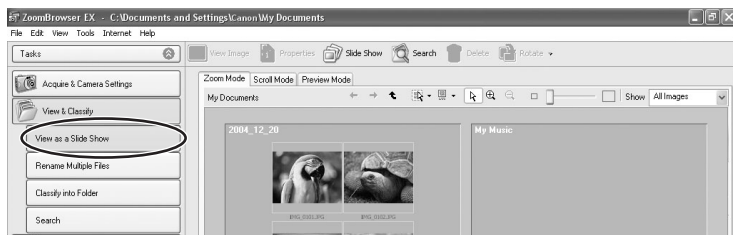
3 Select the images and click [Setup Slide Show].
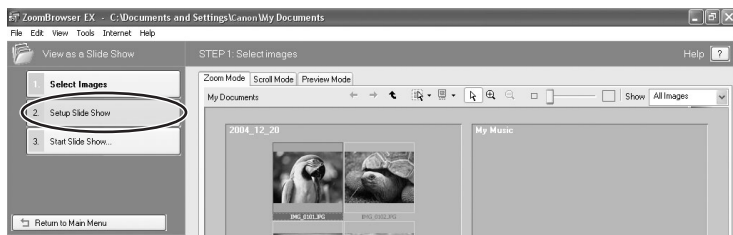
4 Select the slide show settings.

- [Image Size]: Select the size of the still images.
- [Image Information]: Select to show image information such as file name or title.
- [Advance to Next Slide]: Select to advance manually or automatically. When you select "Every 3 seconds", you can select the interval in the control below (from 1 to 120 seconds).
- [Loop]: Select to stop the slide show after the last image or to continuously run it in a loop.
- [Effect]: Select the transition effect to be used when moving from one slide to another. When you click an effect, you can check the effect in the preview window.

5 Click [Start Slide Show].

Click 🗵 in the lower right corner to end the slide show.

Merging Panoramic Images (PhotoStitch)

You can merge a series of overlapping still images into a single, seamless panorama. PhotoStitch automatically arranges still images recorded with the camcorder's Stitch Assist mode in their correct order and orientation, making it easy to merge them. Please refer to the Camcorder Instruction Manual to learn how to record in Stitch Assist mode.
The following instruction explains how to merge still images recorded in Stitch Assist mode with the camcorder.

> ⚠ Still images recorded in Stitch Assist mode with Wide-converter or Tele-converter attached cannot be merged correctly.

1 Select images shot in Stitch Assist mode.
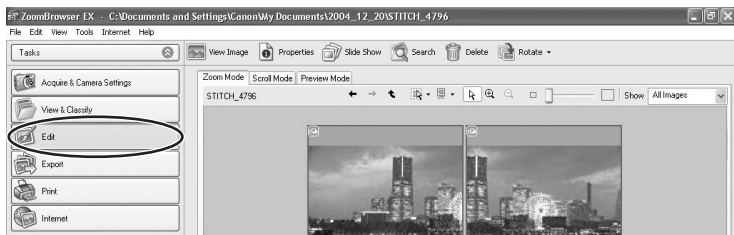
To use PhotoStitch, images need to be shot in Stitch Assist mode. To download images, please refer to *Downloading Images (ZoomBrowser EX)* (□ 14).

2 Click [Edit].

3 Click [Stitch Photos].
PhotoStitch starts.
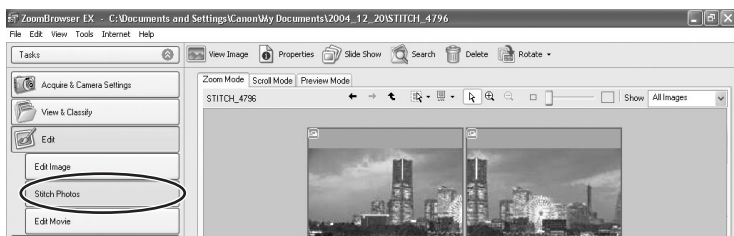
4 Arrange the order of the images and click [2. Merge].
Operational instructions are displayed in the upper section of the window.
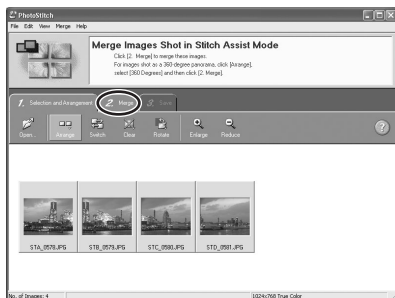
5 Click [Start].

6 Select [3. Save] and then click [Save].

- Select the destination folder, input the file name and click [Save].
- In the View the Saved Image? window, click [Yes]. The Viewer window opens and displays the merged image.
- To exit PhotoStitch, from the [File] menu, select [Exit].
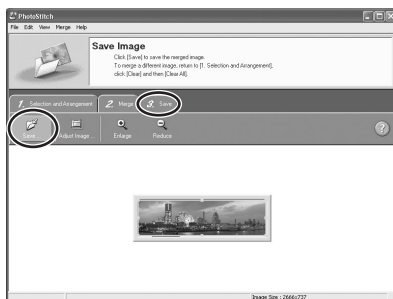
- ○ You can record the surroundings in 360 degrees, and stitch them together later to form a 360-degrees cylinder. (In [1. Selection and Arrangement], select [Arrange] and [360 Degrees].) By saving this stitched image in QuickTime VR type, you can then get a virtual view of the surroundings by manipulating the mouse. For this, you need to have QuickTime installed on your computer. If it is not already installed, install it from the DIGITAL VIDEO SOLUTION DISK. Place the disk in the CD-ROM drive and click QuickTime [Install] in the installer panel.
- ○ Please refer to the PhotoStitch Help menu for more details.

Printing Still Images (PhotoRecord)

PhotoRecord is a printing program. You can use this program to lay out the still images for printing. You can also create original albums and save them to your computer. Movies cannot be printed.

- ○ Do not open the memory card cover, remove the memory card, detach the USB cable or turn off the camcorder while data is being transferred to the printer (when the camcorder's card access indicator is flashing). Doing so may cause memory card data to become corrupted.
- ○ If you are using a network printer and the printer name (including the network path) exceeds 31 characters, it may not be possible to print from PhotoRecord. If this happens, click the [Printers and Other Hardware] followed by [Printers and Faxes] from the Windows [Control Panel] and change the name of the printer, limiting its length to within 31 characters.

1 Click [Print] in the Main Window.
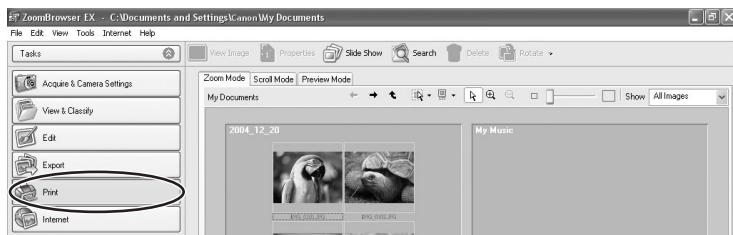
2 Click [Layout Print].

When you wish to print an index, select [Contact Sheet Print].

3 **Select the still image you wish to print and click [Select Captions for Printing].**
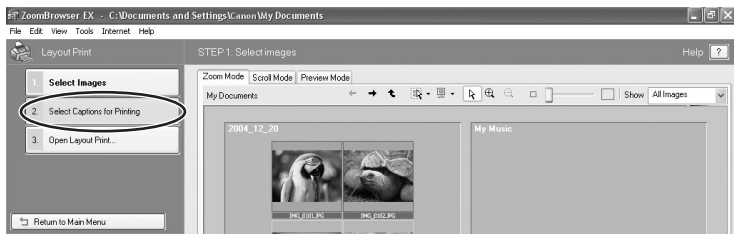
4 **Select the image information you wish to include in the print and click [Open Layout Print].**
   • Place a check mark beside the items you wish include in the print.
   • If you wish to add a comment, select a still image and enter a comment in the Properties window by clicking [Properties] (Properties).
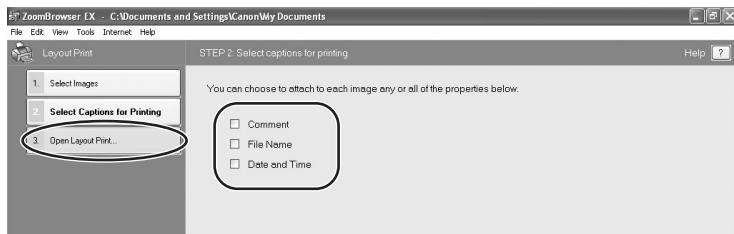
5 **Click [2 Select Printer & Album Type] and select a printer and album type.**

Select the printer.

Select the album type.
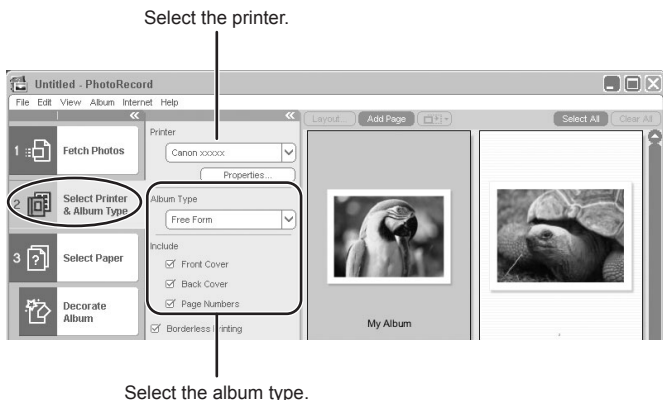
6 **Click [3 Select Paper] and select the media type, paper size and page orientation.**
   • If you click [Decorate Album], you can change the theme (a consistent design for background, photo frames and text frames), or set the design elements individually. When you set the design elements individually, make sure to select the target page.
   • If you click [Add Titles & Captions], you can add titles and text, and change font, font size, justification and color. Make sure to select the target page when performing these changes.

Set the paper type and orientation.

Windows
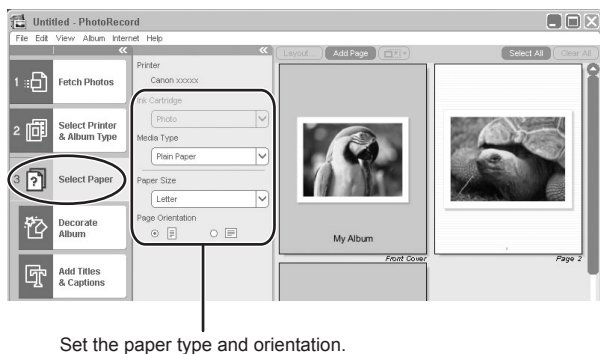
7 Click [4 Print], confirm the number of copies and other print settings, and click [Print].

Printing starts.

📝 PhotoRecord automatically performs image correction for images shot with Exif 2.2 compatible camcorders and even other images, yielding high-quality prints.

Adding Sound to an Image

You can add a sound to an image. The sound file needs to be in WAVE format (extension ".wav") or in MIDI format (extension ".mid" or ".midi").
The sound cannot be played back on the camcorder.

1 In the Main Window, select an image and select [Add/Remove Sound] from the [Edit] menu.

2 Click [Add].

Sound	⊠
Currently Selected Sound File:	Play
Add Remove	
OK Cancel	
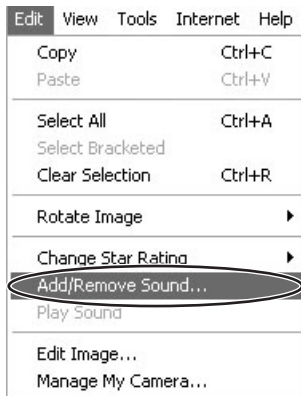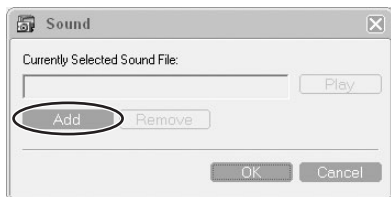
3 Select the sound file and click [Open].

4 Click [OK].

  • The sound file will be copied to the same folder as the image.
  • To play back the sound, select an image with a sound icon and select [Play Sound] from the [Edit] menu.

○ To remove sound from an image, select [Remove] on the Sound window in step 2. ♪ disappears and the copied sound file will be deleted.
○ The [Play Sound] window appears and plays back the sound.

Applying the Camcorder Settings from the Computer

Customizing the My Camera Settings

- The start-up image, start-up sound, shutter sound, operation sound and self-timer sound are called the My Camera Settings. ZoomBrowser EX already contains several My Camera Settings which can be selected in theme sets or individually. The "Animal" theme, for example features and animal in the start-up image and animal calls in each of the sound files. The files all begin with the same word (e.g. "Animal", "Baseball").
- You can use the pre-recorded My Camera Settings, add still images to the [My Camera] window (🔲 71) or create original sounds files (🔲 72).
- When you start the [My Camera] window form the Camera Control window, you can only change the My Camera Settings of the camcorder. To create an original sound file and add it to the [My Camera] window, start the [My Camera] window from ZoomBrowser EX. For details, see *Creating an Original Sound File and Adding it to the [My Camera] Window* (🔲 72).

> ⚠️ Observe following precautions while the My Camera Settings are saved to the camcorder.
> - Do not open the memory card cover or remove the memory card.
> - Do not detach the USB cable.
> - Do not turn off the camcorder or computer.
> - Do not change the position of the POWER switch or TAPE/CARD switch.

■ Displaying the [My Camera] Window

1 **Connect the camcorder to the computer (🔲 12).**

2 **Click [Acquire & Camera Settings] in the Main Window.**

3 **Click [Set to Camera].**

4 Click [Set My Camera].

The [My Camera] window appears.

For individual settings.

Selects the type of the My Camera Setttings.

Displays the My Camera Settings of the camcorder.

For setting in theme sets.

Displays the My Camera Settings saved on the computer.

Plays back the sound setting selected in the [Camera] list.

Adds an image file to the [My Computer] lists.

Deletes a setting from the [Camera] list.

Plays back the sound setting selected in the [My Computer] list.

Deletes a setting from the [My Computer] list.

Saves the setting of the camcorder to the computer.

Saves the setting from the computer to the camcorder.
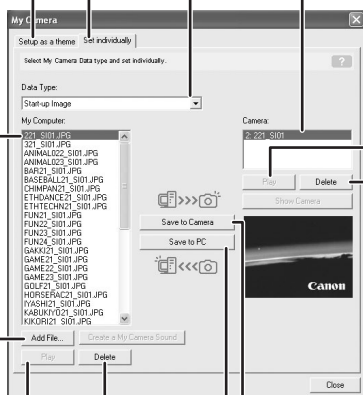
Windows

■ Changing the My Camera Settings of the Camcorder

1 **In the [My Camera] window, select the theme set you wish to change in the [MyComputer] list.**
- To change the settings individually, select the [Set individually] tab and select the setting type in the [Data Type] list.
- A start-up image appears when you select a theme set and plays back the start-up, shutter, operation and self-timer sound.
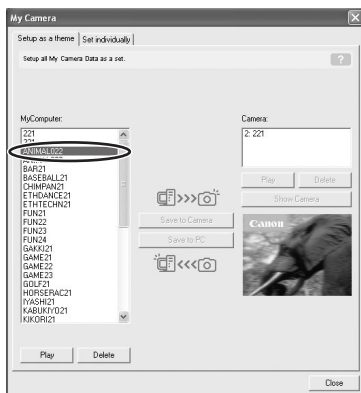
2 **Select the setting you wish to replace in the [Camera] list and click [Save to Camera].**
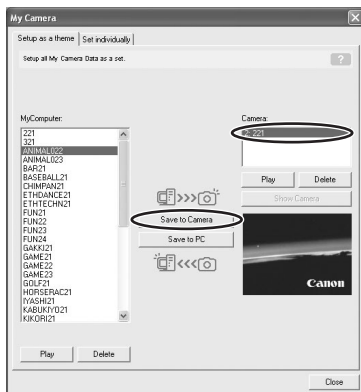
3 On the confirmation window, click [OK].

• The selected setting is uploaded to the My Camera setting of the camcorder.
• If you wish to use this setting on the camcorder, change the My Camera Setting on the camcorder itself. Refer to the Camcorder Instruction Manual for details.

■ Adding Still Images to the [My Camera] Window

By adding an image to the [My Computer] list, you can upload the image to the camcorder for use as Start-up Image. Only still images with JPEG compression can be added to the list.

To use still images recorded with your camcorder, you need to download them to the computer before you can add them to the [My Camera] window.

1 In the [My Camera] window, click the [Set individually] tab, select [Start-up Image] in the [Data Type] list and click [Add File].

The file opening window appears.
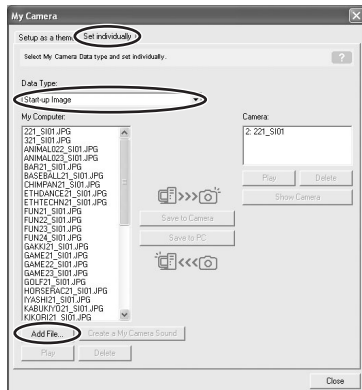
2 Select the file you wish to add and click [Open].

The selected file appears in the [My Computer] list. You can now save the newly added file to the camcorder using the procedures described in *Changing the My Camera Settings of the Camcorder* (☐ 70).

To delete a setting, select the file and click the [Delete] button below the [My Computer] list.

■ Creating an Original Sound File and Adding it to the [My Camera] Window

QuickTime is required to use My Camera Sound Maker and to play back the sound.

○ QuickTime is required to play back the sound. If QuickTime is not already installed on your computer, install the QuickTime from the DIGITAL VIDEO SOLUTION DISK. Place the disk in the CD-ROM drive and click QuickTime [Install] in the installer panel.
○ You need to connect a microphone to the computer.

1 In the Main Window, select [Manage My Camera] from the [Edit] menu.

Edit	View	Tools	Internet	Help

Copy	Ctrl+C
Paste	Ctrl+V
Select All	Ctrl+A
Select Bracketed	
Clear Selection	Ctrl+R
Rotate Image	▶
Change Star Rating	▶
Add/Remove Sound...	
Play Sound	
Edit Image...	
Manage My Camera...	

2 Click [Set individually] and [Create a My Camera Sound].

The My Camera Sound Maker window appears.
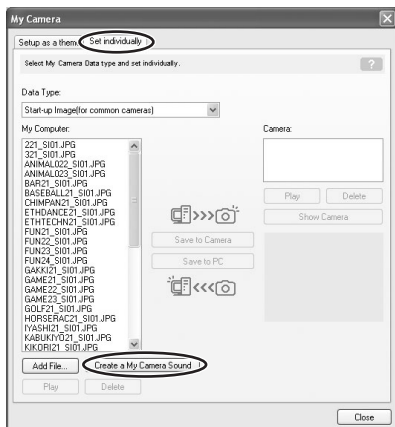
3 Click the tab of the sound type you wish to create and click [Record].

4 To begin recording, click the [Start] button.

My Camera Sound Maker

Click start button to record.

0.0 sec

Start   Close

5 **Click the [Stop] button to stop recording, and click [Close].**
Recording stops automatically after 30 seconds.

My Camera Sound Maker

Click stop button to stop recording.

0.5 sec

Stop   Close

6 **Edit the sound data so that it conforms to the time limits.**
• Select the sound type by clicking the [Sound format] button.
• When a message appears in the center of the window, adjust the length of the recording to conform with the time limits by moving the blue and red switches and clicking the [Cut] button.

Start_up Sound Creating

Adjusting the slide's blue and red switch cuts the sound.
When the sound is too long and line adjustment is difficult, you can delete unnecessary portions with the cut button.
When sound adjustment is completed, click save tab to save.

1. Start_up Sound   2. Shutter Sound   3. Operation Sound   4. Selftimer Sound   5. Save

Record...   Open...   Sound format

Sound time   0.5 Sec

Volume

Moves blue and red switches freely

• The following chart shows standard time lengths for My Camera sounds.

Sound Type	Lengths in Seconds	
	11.025 kHz	**8.000 kHz**
Start_up Sound	1.0 sec. or less	1.3 sec. or less
Shutter Sound	0.3 sec. or less	0.4 sec. or less
Operation Sound	0.3 sec. or less	0.4 sec. or less
Selftimer Sound	2.0 sec. or less	×

7 Click the [5. Save] tab, check if the sound file was created and click [Save].
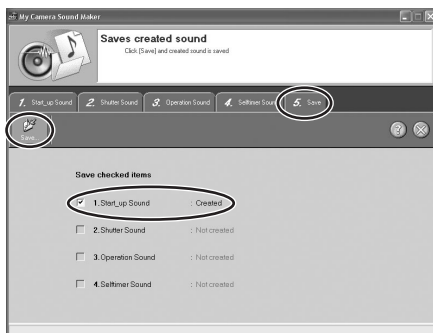
8 Input a file name and click [OK].
- The created sound file appears in the [My Computer] list.
- You can now save the newly created sound file to the camcorder using the procedures described in *Changing the My Camera Settings of the Camcorder* (□ 70).

My Camera Sound Maker

Enter save file name.

Adds text of sound type to inputed file name, and saves.

File name (up to 10 characters)

[   ]

[OK]   [Cancel]
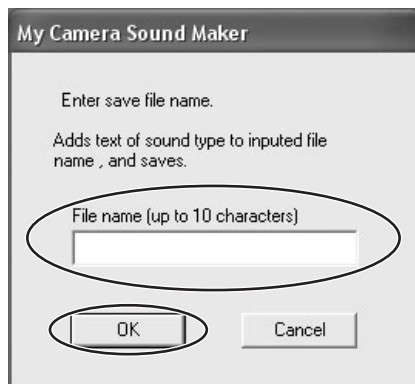
9 Click ⊗ to close the My Camera Sound Maker window.

Applying DPOF Settings

You can select images and the number of prints for automatic printing on a DPOF (Digital Print Order Format)-compliant printer. You can set the DPOF print settings also on the camcorder.

○ When you are using a SD memory card, make sure the protect switch is set to allow recording.
○ The [Edit Slide/DPOF] window allows print settings on up to 998 still images. With some camcorders, DPOF print settings are limited to a maximum of 200 still images. In that case, all DPOF print settings on the 201st still image and onward will be erased.
○ If 999 or more images are recorded on a memory card, the [Edit Slide/DPOF] window may not operate properly. To set the number of prints, reduce the number of images on a memory card to 998 or less.

1 **Connect the camcorder to the computer (□ 12).**

2 **Select [Canon CameraWindow] and click [OK].**

3 Click the [Set to Camera] tab and click [Set Slide Show/DPOF].

- When connecting a card reader/writer, click the [Set to Memory Card] tab and click [Set Slide Show/DPOF].
- The slide show function of the camcorder cannot be used.

4 Click [Print Order(DPOF)] and select a print type from the drop-down list.

- [Standard Print]: Prints selected images in the specified number of copies. Use the arrows next to the boxes to select the number of copies.
- [Index Print], [Both (Standard/Index)] and the option [Titles] of the [Edit] menu (printing of date and file number) are not supported by the camcorder.

Windows

Applying the Camcorder Settings from the Computer | **77**
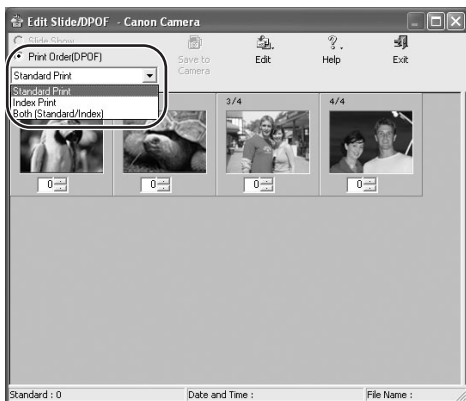
5 Select the still images you wish to print and the number of copies.

6 Click [Save to Camera].

The DPOF print settings will be saved to the memory card.

Reviewing and Changing the Settings of the Camcorder

You can adjust the date, time and owner settings of the camcorder. You can also check the remaining memory card capacity or format the memory card.

1 **Connect the camcorder to the computer (☐ 12).**

2 **Select [Canon CameraWindow] and click [OK].**
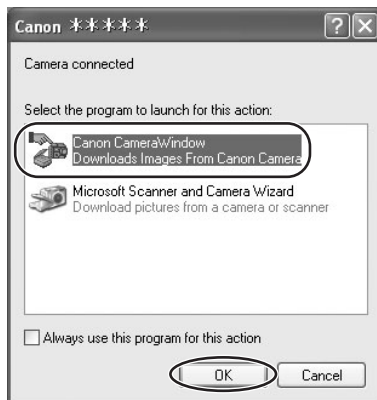
3 **Click the [Set to Camera] tab and click [Confirms/changes camera settings].**

Applying the Camcorder Settings from the Computer | **79**

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

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

Set the date and time here.

Click this button to synchronize the camcorder to the computer's date and time settings.

Check the power status here.

Check the remaining memory card capacity here.

Click this button to format the memory card in the camcorder.

Camera Settings

Camera Model: Canon ✳✳✳✳✳
Body ID:
Firmware Version: 1.0.0.0

Owner's Name:

Date and Time:
12 / 20 / 2004   09 : 27   AM   From PC

Battery Status:

Memory card: Format...

Status: Installed
Free: 27.12 MB
Total: 30.46 MB

OK   Cancel   Apply
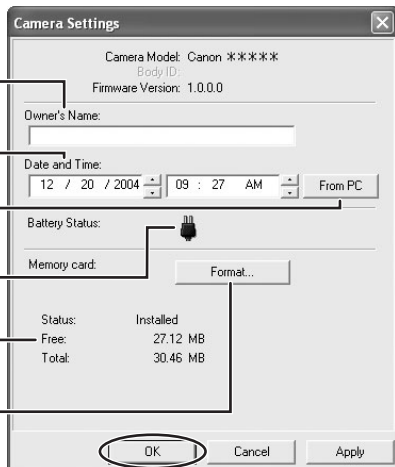
Uninstalling the Software

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

> Users of Windows 2000 and Windows XP must first log in as an Administrator to uninstall the driver and other programs.

Uninstalling ZoomBrowser EX

1 Click the Windows [start] menu and select [All Programs] ▸ [Canon Utilities] ▸ [ZoomBrowser EX] and [ZoomBrowser EX Uninstall].

The uninstall utility starts and removes ZoomBrowser EX.

<div style="text-align:right">**Windows**</div>
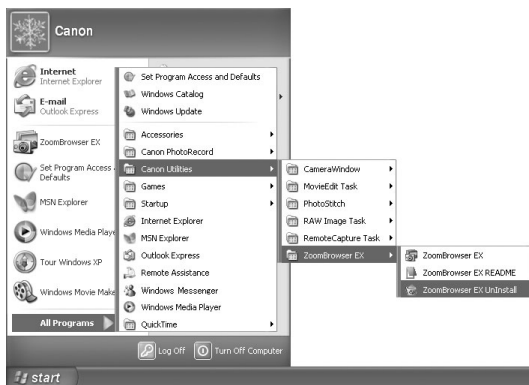
> ○ Uninstall all programs in [Canon Utilities] when you have uninstalled ZoomBrowser EX.
> ○ PhotoRecord and PhotoStitch can be removed with the same procedure.
> ○ RemoteCapture Task and RAW Image Task are used with Canon digital cameras. The camcorder does not support these programs.

Uninstalling the TWAIN Driver/WIA Driver

Users of Windows XP do not need to uninstall the driver.

1 Connect the camcorder to the computer (12).

2 If a window for selecting an application program or the Scanners and Cameras Wizard appears, click [Cancel]. If ZoomBrowser EX started, close it.

3 Click the Windows [Start] menu and select [Settings] and [Control Panel].

4 Double-click the [Scanners and Cameras] icon.

If you cannot find the [Scanners and Cameras] icon, see *TWAIN Driver/WIA Driver Uninstallation* (91).

5 Windows 98/Windows 2000:
   1. Delete [Canon Camera] from the [Scanners and Cameras Properties] list.
   2. Click [OK] to close the window.
   3. Turn the camcorder POWER switch to OFF and remove the USB cable from the computer.
   4. Click the Windows [Start] menu and select [Programs], [Canon Utilities], [DV TWAIN Driver x.x] and [TWAIN Driver Uninstall].
      A version number appears in place of "x.x".

   Windows Me:
   1. Delete the camcorder icon from the [Scanners and Cameras] folder.
   2. Click [OK] to close the window.
   3. Click the Windows [Start] menu and select [Programs], [Canon Utilities], [DV WIA Driver x.x] and [WIA Driver Uninstall].
      A version number appears in place of "x.x".

6 When the Confirm Uninstall window appears, click [OK].

The uninstall process starts.

7 When the Maintenance Complete window appears, click [Finish].

About Canon USB Video Driver

Capturing movies from the tape to the computer by connecting USB 2.0 Hi-Speed.

Camcorder Categories

OPTURA 60	OPTURA 500	OPTURA 600

System Requirements

OS: Windows XP Home Edition or Professional (Service Pack 1 or 2 required)*
* Proper operation is not guaranteed on Windows XP that has been upgraded from a previous version.

CPU: Pentium 4 1.3 GHz or better, or Pentium M 1.0 GHz or better, or Celeron 2.0 GHz or better

Interface: Preinstalled USB 2.0 Hi-Speed

USB Cable: Supplied USB Cable

○ Proper operation is not guaranteed on a dual CPU PC or on a user-built PC.
○ Proper operation is not guaranteed on any particular system, even if it meets the requirements outlined above.
○ Do not connect two or more camcorders to the computer at the same time. The connection may not work correctly.
○ 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.

Windows

Installing the Canon USB Video Driver

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

If the installer panel does not open automatically, use the following procedures to display it.

1) Select [My Computer] from the [start] menu.
2) Right-click the CD-ROM icon and select [Open] from the displayed menu.
3) Double-click the [SETUP.exe] icon.

Depending on the setting of your computer, the file extension ".exe" may not appear.

2 **Select your language.**

3 **Click Canon USB Video Driver [Install].**
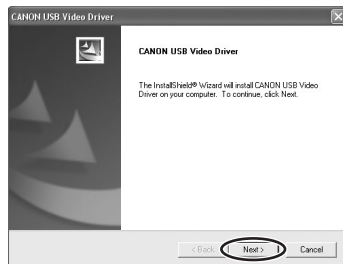

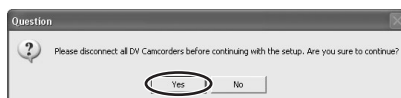**4** **Select your language and click [OK].**

5 **When the InstallShield Wizard appears, click [Next].**

6 **Read the license agreements and click [Yes].**

7 **When the confirmation window appears, click [Yes].**

8 **Confirm the target folder and click [Next].**
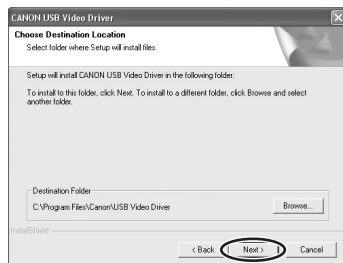
9 Click [Finish].

When installation is complete, remove the DIGITAL VIDEO SOLUTION DISK before you connect the camcorder to the computer.
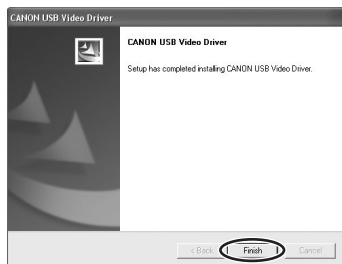
10 Connect the power adapter to the camcorder.

11 Set the camcorder to PLAY (VCR) mode.

12 Connect the camcorder to the computer using the USB cable.

13 Check if the driver has been installed correctly.

From the [start] menu, select [My Computer] and check if the [Canon USB Video] icon appears. If the icon does not appear, the installation has not been completed properly. Uninstall and reinstall the driver. For instructions on how to uninstall the driver, see *Uninstallation of the Canon USB Video Driver* (□ 87).
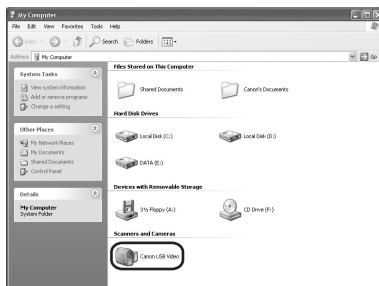
Uninstallation of the Canon USB Video Driver

Use the following procedures to remove the driver.

> Use the procedures below for the following circumstances too.
> - If you do not find the [Scanners and Cameras] icon in the [Printers and Other Hardware].
> - If the Camera icon does not appear in the [Scanners and Cameras] folder.

1 **From the [start] menu, select [Control Panel].**

2 **Click [Performance and Maintenance].**
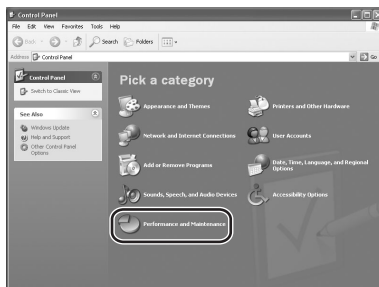
3 **Click [System].**
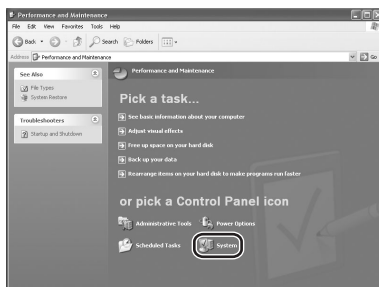
4 **Click the [Hardware] tab on the [System Properties].**

5 Click the [Device Manager] button.
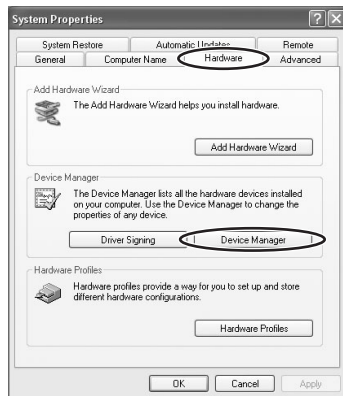
6 If [Canon USB Video] appears under the [Imaging devices], and [Canon USB Video Control] and [Canon USB Video Record] appear under the [Sound, video and game controllers], use the following procedures to delete them.

1) Right-click the mouse button on the respective item and select [Uninstall].
   Depending on your camcorder model, [Canon USB Video Record] may not be displayed. In such case, delete [Canon USB Video] and [Canon USB Video Control].
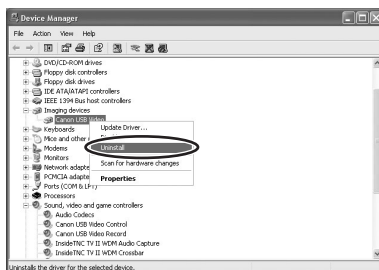
2) In the confirmation dialog, click [OK] and close [System Properties] and [Device Manager].

Confirm Device Removal

Canon USB Video

Warning: You are about to uninstall this device from your system.

OK   Cancel

Confirm Device Removal

Canon USB Video Control

Warning: You are about to uninstall this device from your system.

OK   Cancel

Confirm Device Removal

Canon USB Video Record

Warning: You are about to uninstall this device from your system.

OK   Cancel

7 Close all windows and restart the computer.
The uninstall process is complete.

Troubleshooting

Connection

? **Camcorder is not recognized when connected to the computer.**
→ **Computer does not support the USB interface.**
The USB interface is not supported for computer not in compliance with the following requirements. Acquire the necessary system to use the USB interface.
Requirements: Built-in USB port on a system pre-installed with Windows 98, Windows Me, Windows 2000, or Windows XP.
→ **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* (12) 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.**
→ **TWAIN Driver or WIA Driver is not installed properly.**
First uninstall the TWAIN/WIA Driver, then reinstall the driver from the DIGITAL VIDEO SOLUTION DISK (remove the check marks from the other programs when prompted to select the programs to be installed).

ZoomBrowser EX Operation

? **Cannot download images**
→ **The camcorder it 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 ZoomBrowser EX.**
→ **Images of folders shown in ZoomBrowser EX and the actual file contents may be different when an image file has been moved or copied using Windows functions or edited with a separate program.**
Click the [View] menu and select [Refresh Current Folder].

Driver Installation

? **Cannot install the TWAIN Driver/WIA Driver correctly.**
→ **Does the system have a built-in USB port and did it come with Windows 98/Windows Me/Windows 2000 preinstalled?**
→ **Camcorder is not correctly connected to the computer.**
Read *Connecting the Camcorder to a Computer* (12) and check the connection.
Ensure that you are using the correct cable and that its connectors are in good shape.

→ **Are you using the power adapter to power the camcorder?**
→ **If the problem is not mentioned above, the TWAIN Driver/WIA Driver may not have been recognized by Windows.**
Uninstall and reinstall the driver.

TWAIN Driver/WIA Driver Uninstallation

If you had problems uninstalling the driver, use the following procedures to remove it.

⚠️ The [Inf] folder contains numerous files that are critical to the computer's operation. Be extremely careful not to delete the wrong files. If you delete the wrong file, you may be unable to restart Windows.

📝 Use the procedures below for the following circumstances too.
- If you do not find [Scanners and Cameras] in the [Control Panel] or [Printers and Other Hardware].
- If [Canon Camera] or your camcorder model name does not appear in the [Scanners and Cameras Properties] or [Scanners and Cameras].
- If you connected the camcorder to the computer via the USB cable before installing the Digital Video Software.

Windows 98/Windows Me

Leave the camcorder connected to the computer.

1 **Click the Windows [Start] menu and select [Settings] and [Control Panel].**

2 **Double-click the [System] icon.**
The [System Properties] dialog appears.

3 **Click the [Device Manager] tab.**

4 **If [Canon Camera] appears under the [Other Devices] and/or [Imaging Devices] categories, use the following procedures to delete it.**
1. Select [Canon Camera] and click [Remove].
2. In the confirmation dialog, click [OK].
3. Click [OK] to close the [System Properties] dialog.

5 **Double-click the [My Computer] icon on the desktop followed by the [C:] drive and the [Windows] and [Inf] folders.**
If the [Inf] Folder Is Not Visible in the [Windows] Folder
1. Windows 98: Click the [View] menu and select [Folder Options].
   Windows Me: Click the [Tools] menu and select [Folder Options].
2. Click the [View] tab.

3. Windows 98: Set the [Hidden files] section to [Show all files].
   Windows Me: Set the [Hidden files and folders] section to [Show hidden files and folders].
4. Click [OK].
   This makes the [Inf] folder and files in the [Inf] folder visible.

6   **Find and delete the [Drvdata.bin] and [Drvidx.bin] files.**

7   **In the [Inf] folder, double-click [Other] folder to open it.**

8   **Find and delete the [Canon.IncCAPxxx.inf] and [Canon.IncCDVxxx.inf] file.**
   • The xxx represents numerals.
   • If the above file is not contained in the [Other] folder, you do not need to delete anything.

Windows 2000

Leave the camcorder connected to the computer.

1   **Click the Windows [Start] menu and select [Settings] and [Control Panel].**

2   **Double-click the [System] icon.**

3   **Click the [Hardware] tab.**

4   **Click the [Device Manager] button.**

5   **If [Canon Camera] or your camcorder model name appears under the [Other Devices] and/or [Imaging Devices] categories, use the following procedures to delete it.**
   1. Select [Canon Camera] or the name of the camcorder model, right-click the mouse button and select [Delete].
   2. In the confirmation dialog, click [OK].
   3. Click [OK] to close the [System Properties] dialog.
      Remove all copies of [Canon Camera] or your camcorder model name that appear in the [Other Devices] or [Imaging Devices] categories, or that appear more than once in one category.

6 Double-click the [My Computer] icon on the desktop, followed by the [C:] drive, and the [Winnt] and [Inf] folders.

<u>If the [Inf] Folder Is Not Visible in the [Winnt] Folder</u>

E

Use the following procedures to show all files and folders.
1. Click the [Tools] menu and select [Folder Options].
2. Click the [View] tab.
3. In the [Advanced setting] section, set the [Hidden files and folders] category to the [Show hidden files and folders] option.
   If [Hide extensions for known file types] is selected, remove its check mark.
4. Click [OK] to close the dialog.
   This makes the [Inf] folder and the files in the [Inf] folders visible.

7 Look for the file for Canon digital camcorders starting with [Oem*].

- A number such as "0" or "1" will appear in place of the asterisk (*) above. You will also find another file called [Oem*.pnf], which will have the same number as the [Oem*.inf] file. The two constitute one set.
- There may be many file sets starting with "Oem".
- If you double-click an [Oem*.inf] file, the Windows Notepad program will start and show the file contents. Click each [Oem*inf] file until you find one that contains "*** Canon Camera Driver Setup File***" in its first line. When you find the correct file, note down its name and close the Notepad window.

8 Delete the [Oem*] file set.

Delete all [Oem*.inf] and [Oem*.pnf] files, taking great care to delete the correct files.

If You Were Using ZoomBrowser EX Version 2 or 3 (This manual explains version 5.x)

? **Titles and comments added using a prior version than ZoomBrowser EX version 4 do not appear in ZoomBrowser EX 4 or higher.**

➔ **Titles and comments added using a prior version of ZoomBrowser EX will not be displayed. Use the following procedure to display them.**
1. In Windows Explorer, open the [Program] folder under the folder in which you installed ZoomBrowser EX 4 or higher (C:\Program Files\ Canon\ZoomBrowser EX\Program).
2. Double-click [dbconverter.exe].
3. Select the database you were using until now (C:\Program Files\Canon\ ZoomBrowser EX\Program) and click the [Start] button.
   Please note that with ZoomBrowser EX 4 or higher, both titles and comments appear in the comment list.

? **Cannot find the image folders saved with a prior version than ZoomBrowser EX 5.x.**

➔ **Image folders saved under the [Program Files] folder (such as [Image Library One]) cannot be displayed in the Main Window's Folder Area of ZoomBrowser EX 4 or higher. Use the following procedure to display them.**

Windows

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1. In Windows Explorer, open the [Program Files] folder under the folder in which you installed ZoomBrowser EX 4 or higher (C:\Program Files\ Canon\ZoomBrowser EX\Program\Image Library One).
2. Select the image folder you wish to display and copy the folder to a different destination.

Canon

CANON INC.

U.S.A. ———————— **Canon U.S.A., Inc.**
Canon Customer Care Center
Tel (US): 1-800-828-4040
(Mon.-Fri., 9 AM to 8 PM Eastern Time)

CANADA ———————— **Canon CANADA Inc.**
Tel (Canada): 1-800-OK-CANON (1-800-652-2666)

ASIA ———————— **Canon Hongkong Co., Ltd.**
19/F., The Metropolis Tower, 10 Metropolis Drive,
Hunghom, Kowloon, Hong Kong
Phone: 852-2170-2828
Fax: 852-2723-9684

The information on this manual is verified as of June 1st, 2005.