Canon

Digital Video Software
Instruction Manual

Version 10

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If you are using Windows operating system, use the supplied
DIGITAL VIDEO SOLUTION DISK **For Windows**.
If you are using Macintosh operating system, use the supplied
DIGITAL VIDEO SOLUTION DISK **For Macintosh**.

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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 For Windows
• DIGITAL VIDEO SOLUTION DISK For Macintosh

• Windows users: Move on to p. 10.
• Macintosh users: Move on to p. 86.

The explanations in this manual use mainly Windows XP and Mac OS X version10.2 screen shots.

Windows System Requirements

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

OS:
Windows 98 (First or Second Edition)
Windows Me
Windows 2000
Windows XP (Home Edition, Professional)
* 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:
Windows 98/Windows Me/Windows 2000: Pentium 150 MHz or better
Windows XP: Pentium 300 MHz or better

RAM:
Windows 98/Windows Me/Windows 2000: 64 MB or more
Windows XP: 128 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: 200 MB or more (Including the PhotoRecord printing program)
– PhotoStitch: 40 MB or more
• DV TWAIN Driver: 25 MB or more
• DV WIA Driver: 25 MB or more

Display:
800 × 600 pixels/High Color (16 bit) or better, 1,024 × 768 pixels or better is recommended

❍ The USB interface is only supported for those computers that come with Windows 98/Windows Me/Windows 2000/Windows XP preinstalled and have built-in USB ports.

❍ 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.

❍ 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.

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❍ 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.

❍ Not all operations performed with a connection to a USB 2.0 compatible board can be guaranteed.

Windows

What Can Be Accomplished with the Software

This topic introduces the main features of the software programs contained on the DIGITAL VIDEO SOLUTION DISK For Windows.

■ **TWAIN Driver (□ 17)**
TWAIN Driver is the driver software for Windows 98 and Windows 2000 that is required for downloading images from a memory card to a computer.

■ **WIA Driver (□ 18)**
WIA Driver is the driver software for Windows Me that is required for downloading images from a memory card to a computer.

■ **ZoomBrowser EX (□ 21)**
• Downloading images from a memory card to your computer.
• Categorizing and organizing large volumes of images.
• Creating mail attachments from still images. (Your e-mail software needs to be enabled as MAPI client.)

■ **PhotoRecord (□ 47)**
• Laying out and printing still images.
• Printing indexes.
• Creating still image albums.

■ **PhotoStitch (□ 52)**
Merging panoramic images.

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 Software

Installing the Digital Video Software

❍ Before you connect the camcorder to the computer with the USB cable for the first time, you must install one of the following drivers onto the computer.
  Windows 98/Windows 2000: TWAIN Driver (🔲 17)
  Windows Me: WIA Driver (🔲 18)
❍ 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. **Close any programs that are running.**

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

• The installer panel opens automatically.
• If the installer panel does not appear 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.

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Windows XP:
1. Select [My Computer] from the [Start] menu.
1. 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.

3. **Select your language.**

4. **Click [Digital Video Software Installation].**

For details about the DV Network Software, refer to the *DV Network Software Instruction Manual*.

Installer Panel ———

5. **Click [Next].**

6. **Select your country/region and click [Next].**

7. **Read the license agreement and click [Yes].**

8. **Confirm the installation destination and click [Next].**

Normally, select (C:\Program Files\Canon\).

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9. **Select the programs you wish to install and click [Next].**

- Confirm that there is a check mark beside the name of the program you wish to install.
- Windows 98/Windows 2000/Windows Me: The respective USB driver appears.

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10. Review the installation settings and click [Next].

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

  • When the following window appears, click [OK]. This window only appears if you installed the TWAIN Driver or the WIA Driver.

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

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

○ When installation is complete, remove the DIGITAL VIDEO SOLUTION DISK For Windows before you connect the camcorder to the computer.
○ Windows 98/Windows 2000/Windows Me: 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.

Installing the TWAIN Driver/WIA Driver

Windows 98/Windows 2000/Windows Me: When you have installed the Digital Video Software, go on to install the TWAIN Driver or the WIA Driver. Users of Windows XP do not need to install a driver.

Windows 98/Windows 2000

TWAIN Driver
TWAIN Driver is the driver software for USB connection to Windows 98 and Windows 2000 that is required to download images into ZoomBrowser EX.

Users of Windows 2000 must first log in as an Administrator to install the driver.

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) and move the TAPE/ CARD switch to CARD.**

Wait until the card access indicator stops flashing.

4. **Connect the camcorder to the computer using the supplied USB cable (□ 19).**
  • If the "Digital signature not found" message appears, click [Yes].
  • After a few moments, a message such as "New Hardware Found" appears and the TWAIN driver will be installed automatically.
  • If you are prompted to restart the computer, restart the computer.
  • When installation is complete, a window appears allowing you to select an application program to start.
    See *Downloading Images* (□ 21) for how to start ZoomBrowser EX and download images to the computer.

Installing the Software

Windows Me

WIA (Windows Image Acquisition) Driver
WIA Driver is the driver software for USB connection to Windows Me that is required to download images into ZoomBrowser EX.

Read carefully before installing the WIA Driver:
When you have set the WIA Driver to start a particular application program when you connect the camcorder, the program may cause an error message similar to the following to appear: "TWAIN data source not found. Reinstall the scanner software." If this happens, select [WIA-camera model] in the application program as the TWAIN device.

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) and move the TAPE/CARD switch to CARD.**

Wait until the card access indicator stops flashing.

4. **Connect the camcorder to the computer using the supplied USB cable (19).**
- If the "Digital signature not found" message appears, click [Yes].
- After a few moments, a message such as "Found New Hardware" appears and the WIA driver will be installed.
- If you are prompted to restart the computer, restart the computer.
- When installation is complete, the Scanners and Cameras Wizard starts. See *Downloading Images* (21) for how to start ZoomBrowser EX and download images to the computer.

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Connecting the Camcorder to a Computer

⚠ ❍ Make sure the camcorder is being powered using the power adapter before connecting it to a computer.

❍ Be sure to install the Digital Video Software before you connect the camcorder to the 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. If it does happen, never disconnect the USB cable. Try to awaken the computer with the camcorder in the connected state. Some computers will not awaken properly if you disconnect the camcorder while they are in standby mode. Please refer to your computer manual for instructions regarding its standby mode.**

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) 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.**

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

• Refer to your computer manual for the location of the computer's USB ports.

• See your camcorder instruction manual for connecting instructions.

Connecting the Camcorder to a Computer

USB Terminal
on the Camcorder

USB Cable

Camcorder End

Computer End

USB Port on
the Computer

❍ Windows 98/Windows 2000/Windows Me: The first time you connect
the camcorder to the computer via USB interface, install the TWAIN
Driver or the WIA Driver (□ 17,18).

❍ Windows XP: If a window appears prompting you to select an
application program to start, select ZoomBrowser EX or Scanners and
Cameras Wizard to start. If neither of these is selected, operation may
not work correctly. You can also set the computer to start
ZoomBrowser EX or Scanners and Cameras Wizard automatically
(□ 72).

Downloading Images (ZoomBrowser EX)

Below explains the procedure for connecting a camcorder to a computer using the USB cable. For connecting a PC card reader/writer, see *Using a PC Card Reader/Writer* (□ 26).

⚠ ❍ 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.
❍ Format the memory card with the camcorder or from the Camera Settings Window (□ 29).
❍ 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 file format of the original image will be changed and the image can no longer be displayed in ZoomBrowser EX or on the camcorder.
  • 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 still images to the computer.

Windows

Starting ZoomBrowser EX

Windows 98/Windows 2000/Windows XP

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

2. **Connect the Power Adapter to the camcorder.**

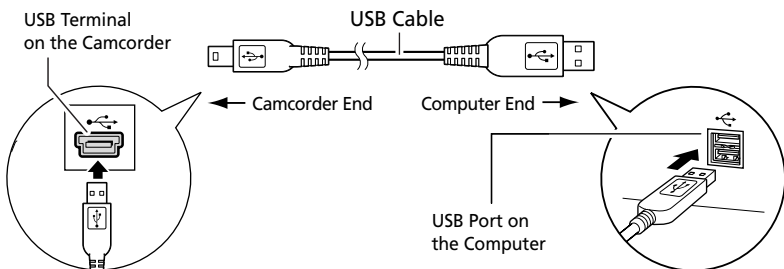**3.** **Turn the POWER switch to PLAY (VCR) and move the TAPE/ CARD switch to CARD.**

Wait until the card access indicator stops flashing.

4. **Connect the camcorder to the computer using the supplied USB cable (19).**

• After a few moments, a window appears allowing you to select an application program to start.
• Windows XP: If the window does not appear or if "PC CONNECT" does not appear on the camcorder screen, start ZoomBrowser EX and open the Camera Window following the steps 5 to 7 for Windows Me.

5. **Select [Canon ZoomBrowser EX] and click [OK].**

• ZoomBrowser EX starts.
• With Windows 2000, the name of the application program may not appear on the Canon Camera event window. In such case, double-click the [ZoomBrowser EX] icon on the desktop to start ZoomBrowser EX.
• If a camcorder and PC card reader are connected at the same time, a window appears allowing you to select the camcorder model. Confirm that [Canon Camera] or your camcorder model name is displayed and click [OK].

6. **Click [Browse Images].**

The Camera Window opens, displaying the camcorder images as thumbnails (small images).

For instructions on how to set the Auto-download settings, see page 76.

Windows Me

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) and move the TAPE/ CARD switch to CARD.**

Wait until the card access indicator stops flashing.

4. **Connect the camcorder to the computer using the supplied USB cable (□ 19).**

The Scanners and Cameras Wizard automatically opens. Click [Cancel] to close the Wizard.

5. **Double-click the [ZoomBrowser EX] icon on the desktop.**

ZoomBrowser EX starts and the Main Window appears.

6. **Click [Camera & Memory Card] in the Main Window.**

7. **Click [Browse and Download Images].**

8. **Click [Browse Images].**

The Camera Window opens, displaying the camcorder images as thumbnails (small images).

For instructions on how to set the Auto-download settings, see page 76.

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Downloading Images to the Computer

1. **In the Camera Window, select the image you wish to download and click [Download image].**

• An orange frame appears around the selected image.
• You can select multiple images by continuously clicking on the images. Click on the image again to deselect.

2. **In the Download Settings window, confirm the settings and click [OK] (□ 29).**

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The Camera Window closes and the Main Window opens. The downloaded images appear in the Main Window.

Using a PC 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 Camera Window.
For instruction on how to connect the PC Card Reader/Writer, please refer to its manual.

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

2. **Windows 98/Windows 2000/Windows Me: Double-click the [ZoomBrowser EX] icon on the desktop.**

Windows XP: When a window appears allowing you to select an application program to start, select [ZoomBrowser EX] and click [OK].

ZoomBrowser EX starts. Move on to the step 5.

3. Click [Camera & Memory Card].

4. Click [Browse & Download Images].

If multiple PC card readers loaded with memory cards are connected or if a camcorder and a PC card reader are connected, a selection dialog will appear before the [Download image] window opens. Select one of the devices to proceed and click [OK].

5. Click [Browse Images].

The Camera Window opens, displaying the camcorder images as thumbnails (small images).

Using Other ZoomBrowser EX Functions

Camera Window

The Camera Window opens when a connection to a camcorder is initiated. Images will be displayed as thumbnails (small images). Movies are displayed with the first scene as a still image, indicated with a movie icon. Buttons are activated when an image is selected.

Indicates that it has been downloaded to a computer.

Thumbnails
Images are displayed in reduced size.

Task Area   Toolbar   Movie icon

Task Area

[Download image]: Downloads selected images to the computer.
[Print]: Prints selected still images. Menu options: Layout Print and Contact Sheet Print.
[View as slideshow]: Starts a slide show after downloading the selected still images to the computer.
[Connect to Internet]: Attaches selected still images to an e-mail message.

Toolbar

[Set]: Adjusts the connection settings and camcorder settings. Menu options: Reconnect, Camera Settings, Slide*/DPOF, Add Image(s) and My Camera. (*The Slide function cannot be used.)
[Select]: Selects images. Menu options: Select All, Select New, Select Print mark, Select Send mark, Select Slide Show mark and Invert Selection.
[Deselect]: Deselects images.
[Rotate]: Rotates still images. Menu options: 90 degree left, 90 degree right and 180 degree.
[Delete]: Deletes selected images.
[Properties]: Displays image information (such as shooting date/time and image size).
[Help]: Displays help topics.

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Download Settings Window

The following window appears when you select a task in the Task Area of the Camera Window.

Select a folder in which you wish to download and save the image.

If you wish to create a new folder, select [Create new folder] and select the item you wish to use as folder name.

If you leave this box without check mark, the images will be named in the form of "IMG_XXXX.JPG".
If you place a check mark in this box, you can designate a file prefix. The images will be named "file prefix + XXXX.JPG".

Camera Settings Window

You can adjust the date, time and owner settings in the Camera Settings window using the computer when the camcorder is connected. You can also check the battery charge and remaining memory card capacity.
1. In the Camera Window, click the [Set] button and select [Camera Settings] from the displayed menu.
2. Check or change the settings.
   Click [OK] to close the window.

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.

Using Other ZoomBrowser EX Functions

Main Window

ZoomBrowser EX's Main Window features various buttons and an image display area. This section introduces the names and functions of the various window parts.

Clicking hides the area.
Click again to redisplay the area.

Toolbar

Task Area

Folders Area
Select image folders here. As in Windows Explorer, you can view the contents of the folders.

Browser Area
Displays the images contained in the selected folder.

Task Area (Main Menu)

[Camera & Memory Card]: Displays the Camera Window.
[Print]: Prints selected still images. Menu options: Layout Print and Contact Sheet Print
[View & Modify]: Use this to view or edit images. Menu options: View as a Slide Show, Export Images, Edit Image, Stich Photos, Search and Backup to CD.
[Internet]: Attaches selected still images to an e-mail message.

Toolbar

[View Mode]: Selects the view mode. Menu options: Scroll Mode, Zoom Mode and Preview Mode.

Scroll Mode:
Displays the images in the selected folder at a large, easy-to-view size. When there are more images than can fit in the Browser Area, a scroll bar appears at the right of the Browser Area. When a folder has been created within the selected folder, the folder appears as an icon.

Zoom Mode:
When a folder has been created within a folder, it displays all images within the nestled folder. Selecting the magnifying glass (+ or –) and clicking a folder or an image in the Browser Area changes the size at which an image is displayed or the folder level. You can also zoom up by double-clicking an empty part of the Browser Area or the tab of a folder name.

Preview Mode:
Displays one image at a large size. You can review file name, comment, histogram and image information. Select the preview image from the bottom of the Main Window, or by clicking [Previous] or [Next].

[Thumbnail Size]: Selects the size at which images are displayed in the Browser Area. Menu options: 80 × 80, 160 × 160 and Column Number. It can only be selected in [Scroll Mode].

[View Image]: Displays a still image in the Image Viewer window, or opens a window for playing back a movie.

[Properties]: Displays image information (such as shooting date/time and image size).
If you select an image in the Browser Area while the Properties window is open, the information in the window switches to the contents of the selected image.

You can change the file name or enter a comment.

Switch between images with this button when more than one image is selected.

[Rotate]:   Rotates selected still images.
[Delete]:   Deletes selected images.

Image Viewer Window

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

Zoom
You can change the zoom ratio.

Color, Brightness and Contrast
You can adjust the color, brightness and contrast by dragging the respective slide.

Crop
You can extract a part of the still image.
1. Click on the still image and drag to form a rectangular frame.
   You can move or change the size of the frame.
2. Click this button to extract the area within the frame.
   The extracted part of the still image appears.

Playing Back Movies From a Memory Card

In the Camera Window 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 3.0 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 Installation] 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.

QuickTime Player starts.

2. **Click the ▶ (play) button in QuickTime Player.**

The movie will be played back.

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 & Modify] in the Main Window.

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.

Searching Images

You can search for images marked as your Favorites or by modification date, shooting date or keywords. You can mark images as Favorites (41) and add keywords (41).

Searching Images

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

2. **Select the folder in which you wish to search for the image and click [Search].**

3 Specify the search conditions.

- Place a check mark beside the parameter you wish to use.
- If you selected [Modification Date] or [Shooting Date], set the date range. If you selected [Keywords], select the keywords.

Clicking here hides the search parameter details.

4. Click [Start Search].

The images matching the conditions will be displayed.

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Searching Images

5. Click [Finish].

To change the search parameters and perform another search, click [Specify Search Condition] 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.

Setting Parameters for Future Searches

In Preview Mode, you can mark images as Favorites, and open the [View/Modify Keywords] window by clicking [View/Modify Keywords] in the Main Window.

Making an Image as Favorite

1. **Select an image in the Browser Area and click 🖼 (Properties).**

2. **Place a check mark beside [Favorite Photo] and close the [Properties] window.**

The symbol shown below is displayed on images marked as Favorites

Favorites Symbol ─────

101_0116.JPG   101_0117.JPG

101_0118.JPG   101_0119.JPG

Adding Keywords to Images

1. **Select an image in the Browser Area and click 🖼 (Properties).**

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2. **Click [View/Modify Keywords].**

You can also select [View/Modify Keywords] from the [Tools] menu.

3. **Place a check mark beside the keyword you wish to use and click [OK].**

Place a check mark beside the keyword you wish to use.

To add a keyword, type the new word in the box and click [+].

You can add and delete keywords. Open the Manage keywords window by selecting [Manage keywords] from the [Tools] menu.

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.

Adding Sound to an Image

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

The Sound window appears.

Edit	
Copy	Ctrl+C
Paste	Ctrl+V
Select All	Ctrl+A
Clear All	
Rotate Image	▶
Add/Remove Sound…	
Play Sound	
Edit Image…	
My Camera Settings…	

2. **Click [Add].**

A window appears allowing you to select a file.

3. **Select the sound file and click [Open].**

4. **Click [OK].**

- ♪ appears on the image.
- The sound file will be copied to the same folder as the image.

To remove sound from an image, select [Remove] on the Sound Window in step 2. ♪ disappears and the copied sound file will be deleted.

Playing Back the Sound

In the Main Window, select the image with the sound attachment and select [Play Sound] from the [Edit] menu.

The Play Sound window appears and the sound will be played back.

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].

You can select multiple still images by continuously clicking on the still images. Click on the still image again to deselect.

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 format].
- [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.

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, open [Control Panel] on the [Start] menu. Click the [Printers] icon and change the name of the your 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].

Windows

3. **Select the still image you wish to print and click [Select Captions for Printing].**

You can select multiple images by continuously clicking on the images. Click on the image again to deselect.

4. **Select the image information you wish to include in the print and click [Open Layout Print].**

- PhotoRecord starts.
- 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 [img] (Properties).

5. **Click [Select Printer & Album Type] and select a printer and album type.**

Select the printer.

Select the album type.

6. **Click [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.

E

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7. **Click [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.

Selecting the Print Mode and Number of Copies (DPOF Print Settings)

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

When you are using a SD memory card, make sure the protect switch is set to allow recording.

1. **Click [Set] in the Camera Window and select [Slide/DPOF] in the displayed menu.**

The Edit Slide/DPOF window appears.

2. Select the still image you wish to print and the number of copies.

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

3. Click [Save to Camera].

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

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.

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. **Click the arrow in the Camera Window.**

Still images recorded with the camcorder's Stitch Assist mode

2. **In the confirmation window, click [OK].**

PhotoStitch starts.

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3. **Arrange the order of the images and click [2.Merge].**

Operational instructions are displayed in the upper section of the window.

4. **Click [Start].**

5. 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.

❍ 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 format, 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 For Windows. Place the disk in the CD-ROM drive and click [QuickTime Installation] in the installer panel.

❍ Please refer to the PhotoStich Help menu for more details.

Exporting Images

You can change the size, resolution or file format of selected still images and save them as new files, or export still images for use as screen saver or wallpaper. You can also export selected movie and still image information to text file, or copy and rename movies and still images.

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

2. **Click [Export Images].**

3. **Select the images and click [Select Export Type].**

You can select multiple images or a folder to include all images in that folder. (Select only one image if you wish to set it as wallpaper.)

4. Select the export type and click [Specify Export Settings].

- [Edit Images and Resave]: Converts still images to another file format, resizes and saves them as new files. You can select the file format from JPEG, TIFF, and BMP. You can also specify a prefix to be added to the exported still images.
- [Export Image Shooting Properties]: Exports selected image information to a text file.
- [Export Images as a Screen Saver]: Saves still images as a Screen Saver.
- [Export an Image as Wallpaper]: Saves still images as Windows wallpaper.
- [Copy Images and Rename]: Copies and names the selected images. You can also specify a prefix to be added to the exported images.

5. Specify the export settings and click [Finish].

- The options for the export settings vary according to the export type. Follow the instructions displayed in the window.
- In each case, specify the destination folder and file name for the images to be exported.

Destination Folder

⚠ Image information will be saved along with the images when you select [Edit Images and Resave] and save images in JPEG format, or when you select [Copy Images and Rename].

Windows

Adding Still Images from Your Computer to the Memory Card

You can add still images (JPEG) from the computer to a memory card. You can also add sample images for card mix from the DIGITAL VIDEO SOLUTION DISK For Windows.

Adding Still Images to the Memory Card

1. **Click [Camera & Memory Card] in the Main Window.**

2. **Click [Upload Images].**

If you have already selected an image, move on to the step 4.

3. **Select the still images you wish to add and click [Open Camera Window].**

You can select multiple still images by continuously clicking on the still images. Click on the still image again to deselect.

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

• The selected still images will be recorded to the memory card.
• When recording is complete, the still images will appear in the Camera Window.

Adding Sample Images to the Memory Card

You can add sample images for card mix and card animation to the memory card. 4 images for CARD CHROMA, 2 images for CARD LUMINANCE, 2 images for CAMERA CHROMA and 4 images for CARD ANIMATION are provided on the DIGITAL VIDEO SOLUTION DISK For Windows.

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

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

2. **Click [Camera & Memory Card].**

3. **Click [Upload Images].**

4. **In the Folders Area of the Main Window, select the CD-ROM icon followed by [DVC CARD IMAGE].**

Sample images or folders for CARD CHROMA, CARD LUMINANCE, CAMERA CHROMA or CARD ANIMATION appear in the Browser Area.

5. **Select the sample images you wish to add and click [Open Camera Window].**

You can select multiple images by continuously clicking on the images. Click on the image again to deselect.

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6. **In the Add Image window, click [Add].**

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

Saving Images 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].**

3. **Click [View & Modify] in the Main Window.**

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

5. **Select the folders or images you wish to save and click [Specify Backup Settings].**

6. **Select the CD-R/RW drive, enter a title 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.

Customizing Your Camcorder with 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 (□ 68) or create original sounds files (□ 69).

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

Saving the My Camera Settings to the Camcorder

1. **In the Main Window, click [Camera & Memory Card] followed by [My Camera Settings].**

The My Camera Window (□ 67) appears.

2. **In the My Camera window, select the theme set you wish to save to the camcorder in the [My Computer] list.**
- To change the settings individually, select the [Set individually] tab and select the setting type in the [Data Type] list.
- A window appears when you select a theme set and plays back the start-up, shutter, operation and self-timer sound.

3. **Select the setting you wish to replace in the [Camera] list and click [Save to Camera].**

4. **On the confirmation window, click [OK].**

• The selected setting replaces the old setting and appears in the [Camera] list.
• 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.

Alternatively, you can display the My Camera window from the Camera Window by clicking [Set] and selecting [My Camera] from the displayed menu.

My Camera Window

For individual settings.

For setting in theme sets.

Selects the type of the My Camera Settings.

Displays the My Camera Settings of the camcorder.

Displays the My Camera Settings saved on the computer.

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

Deletes a setting from the [Camera] list.

Saves the setting from the computer to the camcorder.

Adds an image file to the [My Computer] 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.

My Camera

Setup as a theme | Set individually

Select My Camera Data type and set individually.

My Computer:

221_SI01.JPG
321_SI01.JPG
ANIMAL022_SI01.JPG
ANIMAL023_SI01.JPG
BAR21_SI01.JPG
BASEBALL21_SI01.JPG
CHIMPAN21_SI01.JPG
ETHDANCE21_SI01.JPG
ETHTECHN21_SI01.JPG
FUN21_SI01.JPG
FUN22_SI01.JPG
FUN23_SI01.JPG
FUN24_SI01.JPG
GAKKI21_SI01.JPG
GAME21_SI01.JPG
GAME22_SI01.JPG
GAME23_SI01.JPG
GOLF21_SI01.JPG
HORSERAC21_SI01.JPG
IYASHI21_SI01.JPG
KABUKIYO21_SI01.JPG
KIKORI21_SI01.JPG

Data Type:

Startup Image

Save to Camera

Save to PC

Camera:

2: 221_SI01
3: 321_SI01

Play   Delete

Show Camera

Canon

Add File...

Play   Delete

Close

Adding Still Images to the My Camera Window

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 [Startup Image] in the [Data Type] list and click [Add File].**

The file opening window appears.

2. **Select the still image file (JPEG) 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 *Saving the My Camera Settings to the Camcorder* (65).

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 play back the sound. If QuickTime is not already installed on your computer, install the QuickTime from the DIGITAL VIDEO SOLUTION DISK for Windows. Place the disk in the CD-ROM drive and click [QuickTime Installation] in the installer panel.

❍ You need to connect a microphone to the computer.

1. **In the Main Window, select [Create a My Camera Sound] from the [Camera] menu.**

The My Camera Sound Maker window appears.

2. **Click the tab of the sound type you wish to create and click [Record].**

3. **To begin recording, click the [Start] button.**

4. Click the [Stop] button to stop recording, and click [Close].

Recording stops automatically after 30 seconds.

5. Edit the sound data so that it confirms to the time limits.

- Select the sound type by clicking the [Sound Format] button.
- Adjust the length of the recording to conform with the time limits by moving the blue and red switches and clicking the [Cut] button.

- 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
Self-Timer Sound	2.0 sec. or less	2.0 sec. or less

6. **Click the [Save] tab, check if the sound file was created and click [Save].**

7. **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 *Saving the My Camera Settings to the Camcorder* (□ 65).

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

8. **Click 　 to close the My Camera Sound Maker window.**

Setting ZoomBrowser EX to Start Automatically

You can set ZoomBrowser EX to start automatically when you connect the camcorder to the computer.

Windows 98/Windows 2000

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) and move the TAPE/ CARD switch to CARD.**

Wait until the card access indicator stops flashing.

4. **Connect the camcorder to the computer using the supplied USB cable (19).**

When a window appears allowing you to select an application program to start, click [Cancel].

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

6. **Double click the [Scanners and Cameras] icon.**

If you cannot find the [Scanners and Cameras] icon, see *TWAIN Driver/WIA Driver Uninstallation* (82).

7. **Make sure that [Canon Camera] is selected and click [Properties].**

8. **Click the [Events] tab.**

9. **Remove the check mark from all programs except ZoomBrowser EX and click [OK].**

The next time the camcorder is connected, ZoomBrowser EX starts and the Camera Window opens automatically.

Windows Me

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) and move the TAPE/ CARD switch to CARD.**

Wait until the card access indicator stops flashing.

4. **Connect the camcorder to the computer using the supplied USB cable (□ 19).**

When the Scanners and Cameras Wizard opens, click [Cancel].

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

6. **Double click the [Scanners and Cameras] icon.**

If you cannot find the [Scanners and Cameras] icon, see *TWAIN Driver/WIA Driver Uninstallation* (□ 82).

7. Double click the [Canon Camera] icon.

8. Click the [Events] tab.

9. In the [Actions] section, select [Start this program], set it to [Canon ZoomBrowser EX] and click [OK].

❍ When you have restarted your computer, a window appears allowing you to select an application program to start.

❍ Select [Canon ZoomBrowser EX], place a check mark beside "Always use this program for this action" and click [OK].

  • ZoomBrowser EX starts and the Camera Window opens automatically.

  • The next time the camcorder is connected, ZoomBrowser EX starts and the Camera Window opens automatically.

Windows XP

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) and move the TAPE/ CARD switch to CARD.**
Wait until the card access indicator stops flashing.

4. **Connect the camcorder to the computer using the supplied USB cable (⬜ 19).**
A window appears allowing you to select an application program to start.

5. **Select [Canon ZoomBrowser EX], place a check mark next to "Always use this program for this action" and click [OK].**
The next time the camcorder is connected, ZoomBrowser EX starts and the Camera Window opens automatically.

Auto-Downloading Settings

You can set the action that is carried out when ZoomBrowser EX is started. When you set ZoomBrowser EX to automatically download images from the camcorder when ZoomBrowser EX is started, specify the download settings.

1. **In the Main Window, select [Auto-download setting] from the [Camera] menu.**

Camera | Help
Auto-download setting
Camera Settings...
Edit Slide/DPOF...
Create a My Camera Sound...
Browse & Download Images...
Upload Images
My Camera Settings...

2. **Enable or disable the auto-download setting and click [Select Image Type].**

• When you selected [Images are not automatically downloaded....], click [Setup Completed]. The setup process is complete.
• When you selected [Images are automatically downloaded....], click [Select Image Type] and move on to the steps 3 to 5.

ZoomBrowser EX - C:\Documents and Settings\Administrator\My Documents\My Pictures

File   Edit   View   Tools   Internet   Camera   Help

Set Auto-download

Set Auto-download	1
Select Image Type	2
Save In	3
Set Action	4

STEP 1: Enable or disable the image auto-download function.   ?

○ Images are not automatically downloaded to computer while camera is connected
   (Display the list of images in the camera and download from there)

◉ Images are automatically downloaded to computer while camera is connected

   ☑ Display confirm message before downloading

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

ZoomBrowser EX - C:\Documents and Settings\Administrator\My Documents\My Pictures

File   Edit   View   Tools   Internet   Camera   Help

Set Auto-download «

STEP 2: Select the image type to be downloaded.

Set Auto-download **1**

Select Image Type **2**

Save In **3**

Set Action **4**

○ All images

◉ New images

○ Images whose print order settings were specified with the camera

○ Images whose transfer settings were specified with the camera

This option is not supported by the camcorder.

4. Select the destination folder in which you wish to save the image and click [Set Action].

ZoomBrowser EX - C:\Documents and Settings\Administrator\My Documents\My Pictures

File   Edit   View   Tools   Internet   Camera   Help

Set Auto-download «

STEP 3: Specify the location at which to save the image.

Set Auto-download **1**

Select Image Type **2**

Save In **3**

Set Action **4**

Setup Completed **5**

Return to Main Menu ↵

Save to folder:

C:\Documents and Settings\Administrator\My Documents   Browse...

○ Do not create new folder

◉ Create new folder

Folder name: ◉ Shooting date

                    ○ Downloaded date

                    ○ Set as new

                    IMAGE

☐ Designate prefix of image to be saved

File Prefix: IMG

Selected 0   ◄ Previous   Next ►

Windows

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5 Set the action to be carried out after images are downloaded and click [Setup Completed].

Allows you to display the folder in which
the images have been saved after downloading them.

Allows you to perform one of the following processes in succession.
•Layout Print
•Contact Sheet Print
•View as slideshow
•Send by e-mail

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.

📝 ❍ Uninstall also the Camera Window when you have uninstalled ZoomBrowser EX.
Click the Windows [Start] menu and select [All Programs], [Canon Utilities], [Camera Window] and [Camera Window Uninstall].
❍ 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 using the supplied USB cable (□ 19).**

A window for selecting an application program or the Scanners and Cameras Wizard appears, or ZoomBrowser EX starts.

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

3. **Click the Windows [Start] menu and select [Settings] and [Control Panel].**
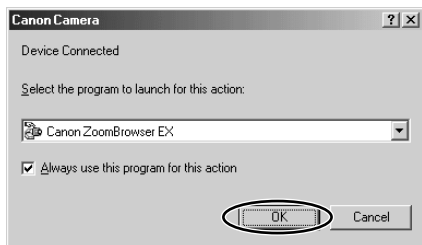
4. **Double-click the [Scanners and Cameras] icon.**

If you cannot find the [Scanners and Cameras] icon, see *TWAIN Driver/WIA Driver Uninstallation* (□ 82).

5. **Windows 98/Windows 2000:**

1. Delete [Canon Camera] from the [Scanners and Cameras Properties] list.
2. Click [OK] to close the window.
3. 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].**

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 XP, Windows 2000, Windows Me, Windows 98 (First or Second Edition).

➔ **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) and move the TAPE/CARD switch to CARD.

➔ **Camcorder is not correctly connected to the computer.**
Read *Connecting the Camcorder to a Computer* (🔲 19) 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 For Windows (remove the check marks from the other programs when prompted to select the programs to be installed).
For uninstalling, refer to *Uninstalling the TWAIN Driver/WIA Driver* (🔲 80).
For installing, refer to *Installing the TWAIN Driver/WIA Driver* (🔲 17).

ZoomBrowser EX Operation

⚆ Cannot download images

➔ **The camcorder it not set to the correct mode.**
Turn the POWER switch to PLAY (VCR) 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 (First or Second Edition), Windows Me or Windows 2000 preinstalled?**

➔ **Camcorder is not correctly connected to the computer.**
Read *Connecting the Camcorder to a Computer* (□ 19) 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 (□ 80) and reinstall (□ 17) 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/ [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.Inc CAP015NA.inf] or [Canon.Inc CAP015NB.inf] file.**

If the above file is not contained in the [Other] folder, you do not need to delete anything.

Windows

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.**

   If the [Inf] Folder Is Not Visible in the [Winnt] Folder
   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 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*] file. The two constitute one set.
- There may be many file sets starting with "Oem".
- If you double-click the [Oem*] file, the Windows Notepad program will start and show the file contents. Click each [Oem*] 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*] 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 4)

? 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 [dbcobverter.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 4.

➔ **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.**
  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.

Windows

Macintosh System Requirements

OS:	Mac OS 9.0-9.2, Mac OS X (version 10.1/10.2)
Computer Model:	Computers that come with above OS preinstalled and have built-in USB ports.
CPU:	PowerPC
RAM:	Mac OS 9.0-9.2: 64 MB or more of application memory
	Mac OS X (version 10.1/10.2): 128 MB or more
Interface:	USB
Free Hard Disk Space:	Canon Utilities

– ImageBrowser   120 MB or more
– PhotoStitch   30 MB or more

Display:	800×600 pixels/32,000 colors or better, $1,024 \times 768$ pixels/32,000 colors or better is recommended

❍ 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 and PhotoStitch do not operate on disks formatted with the Unix File System (UFS).
❍ A CD-ROM drive is required to install the software.
❍ 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.
❍ Not all operations performed with a connection to a USB 2.0 compatible board can be guaranteed.

What Can Be Accomplished with the Software

This topic introduces the main features of the software programs contained on the DIGITAL VIDEO SOLUTION DISK For Macintosh.

■ **ImageBrowser (◻ 92)**
  • Downloading images recorded onto a memory card to your computer.
  • Categorizing and organizing large volumes of images.
  • Creating mail attachments from images.
  • Adding a title and a comment, and printing still images.
  • Printing indexes.

■ **PhotoStitch (◻ 119)**
  Merging panoramic images.

Macintosh

Installing the Software

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

Mac OS X (version 10.1/10.2) 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 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. To avoid these problems, install ImageBrowser to download images.

❍ 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.

❍ Mac OS X version 10.2
  • You may not be able to download images with iPhoto if the memory card contains an enormous volume of images (approx. 900 or more).
  • The Exif* version may change to 2.1 and image information may be modified when downloading images with Image Capture. To download images without any information changes, use the following procedures:
    1. Connect the camcorder to the computer and prepare it to transfer data.
    2. Start Image Capture.
    3. In the screen that appears, click [Options].
    4. Remove the checkmark from [Embed Colorsync profile] in the [Download Options] tab and click [OK].
    * Images shot with camcorders complying with Exif Print incorporate shooting settings information, such as the shooting conditions and program AE mode, along with the image data.

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

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

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3. **Mac OS 9.0-9.2: Double click the CD-ROM icon, followed by the [Mac OS 9] and [Canon Digital Video Installer] icons.**

   Mac OS X (version 10.1/10.2): Double click the CD-ROM icon, followed by the [Mac OS X] and [Canon Digital Video Installer] icons.

   The installer panel appears.

4. **Select your language.**

5. **Click [Digital Video Software Installation].**

Installer Panel ——

6. **Select the programs you wish to install and click [Install].**

   Confirm that there is a check mark beside the name of the program you wish to install.

7. **Select your country/region and click [Next].**

8. **Read the license agreement and click [Agree].**

9. **Select the installation destination and click [Choose].**

Installation starts.

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

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

Connecting the Camcorder to a Computer

⚠️ ❍ Make sure the camcorder is being powered using the power adapter before connecting it to a computer.

❍ Be sure to install the Digital Video Software before you connect the camcorder to the 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. If it does happen, never disconnect the USB cable. Try to awaken the computer with the camcorder in the connected state. Some computers will not awaken properly if you disconnect the camcorder while they are in standby mode. Please refer to your computer manual for instructions regarding its standby mode.**

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) 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.**

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

Macintosh

USB Terminal on the Camcorder   USB Cable

◄— Camcorder End   Computer End —►

USB Port on the Computer

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Downloading Images (ImageBrowser)

Below explains the procedure for connecting a camcorder to a computer using the USB cable.
For connecting a PC card reader/writer, see *Using a PC Card Reader/Writer* (🔲 98).

❍ 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.
❍ Format the memory card with the camcorder or from the Camera Settings Window (🔲 100).
❍ 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.

Starting ImageBrowser

Mac OS 9.0-9.2

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) and move the TAPE/CARD switch to CARD.**

Wait until the card access indicator stops flashing.

4. **Connect the camcorder to the computer using the supplied USB cable (🔲 91).**

• ImageBrowser starts and the ImageBrowser Automation Wizard dialog appears. In the ImageBrowser Automation Wizard dialog, you can select the action that is carried out after ImageBrowser starts.
• A dialog with the previously selected automated settings will appear the next time you start ImageBrowser.
  1. To use these settings unchanged, click the [Start] button.
  2. To do nothing, click [Cancel].
  3. To change the settings, click [Settings Change], select the action and click [OK].

5. Select [Display Images] and click [OK].

The Communications Settings window appears. This window only appears the first time the camcorder is connected.

6. Confirm that [USB port] and [Canon Camera] are selected and click [Set].

The Camera Window opens, displaying the camcorder images as thumbnails (small images).

How to Set ImageBrowser to Not Start Automatically

1. Click the Apple menu ⬛ and select [Control Panels] and [Canon ImageBrowser Auto Launch].

The Settings for USB Connection dialog will display.

2. Click [The application program below will start] to remove the check mark.

3. Click the close box ⬛ at the upper left to close the dialog.

ImageBrowser will cease to start automatically thereafter.

Click here to close the dialog. ──────

Downloading Images (ImageBrowser)

Mac OS X (version 10.1/10.2)

⚠️ Do not connect the camcorder while the Classic environment is started. Likewise, do not start the Classic environment while the camcorder is connected.

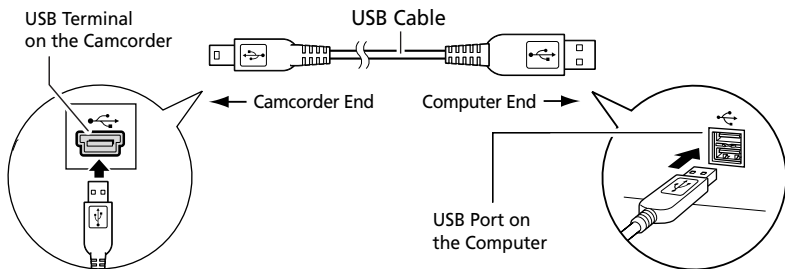**1.** **Insert a memory card containing images into the camcorder.**

2. **Connect the Power Adapter to the camcorder.**

3. **Turn the POWER switch to PLAY (VCR) and move the TAPE/ CARD switch to CARD.**

Wait until the card access indicator stops flashing.

4. **Connect the camcorder to the computer using the supplied USB cable (📖 91).**

5. **Double-click the [Canon ImageBrowser] icon on the desktop.**

If the Canon ImageBrowser icon does not appear on the desktop, double-click the [Canon Utilities] folder on the drive on which the program was installed, followed by the [ImageBrowser] folder and [ImageBrowser] icon.

Canon ImageBrowser

6. **Click [Canon Camera] in the Explorer View section.**

The Communications Settings window appears. This window only appears the first time the camcorder is connected.

Explorer View Section ————

7. Confirm that [USB port] and [Canon Camera] are selected and click [Set].

The Camera Window opens, displaying the camcorder images as thumbnails (small images).

Communication Settings

Port   USB Port

Detected Camera   X X X X X

Cancel   Set

Downloading Images to the Computer

1. Mac OS 9.0-9.2: Select [Macintosh HD] in the explorer view section.

Mac OS X (version 10.1/10.2): Select the [(user name)] subfolder of the [Users] folder in [Macintosh HD].

Canon Camera   View Mode :
Macintosh HD

Explorer View Section

2. Create a new folder for saving images from the memory card in the camcorder.

Click the [File] menu and select [New Folder]. A folder with the name "Untitled" will be created. Click it to change the folder name as you wish. In this example, we will input "ZOO."

File	Edit	View	Canon Camera
Open...			⌘O
Close			⌘W
Save...			⌘S
New Folder			⌘N
Duplicate			⌘D
Send to Trash			⌘⌫

3. In the Explorer View Section, click the newly created folder.

```
○○○                                    Browser Wi
    Canon Camera          View Mode :        List
▽  Macintosh HD
        ZOO
    ▷      Applications
    ▷      Canon Utilities
    ▷      Desktop Folder
    ▷      Document
    ▷      imageBrowser
```

Explorer View Section

4. Select images in the Camera window and click [DOWNLOAD].

• You can select multiple images by holding down [Shift] or [Option] + [Shift] while clicking.
• A blue frame appears around the selected image.
• Downloaded images are saved to the computer and appear in the Browser area.

Thumbnail

```
○○○                      ＊＊＊＊＊

03/05/03    03/05/03    03/05/03    03/05/03    03/05/03
4:15 PM     4:15 PM     4:15 PM     4:15 PM     11:59 PM

SETUP      CONNECT                              DOWNLOAD   PRINT    ROTATE    UPLOAD    IMAGE    SLIDE/
OPTIONS    CAMERA    SELECT    DELETE                                                  INFO     DPOF

                                                                          Total: 5 images
```

Browser area

Explorer View
Section

To disconnect the camcorder, click the close box (Mac OS 9.0-9.2) or the red
close box (Mac OS X (version 10.1/10.2)) at the upper left of the Camera
Window. The Camera Window will close.

○ Double-clicking an image on the camera window imports it to the
computer.
○ You can also download images to the computer by dragging them
from the Camera window and dropping them on the Browser area or
the Explorer View Section.

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Using a PC Card Reader/Writer

The basic operations of ImageBrowser are the same as when you connect the camcorder to the computer. Follow the procedure below to open the Camera Window.
For instruction on how to connect the PC Card Reader/Writer, please refer to the PC Card Reader Manual.

1. **Insert a memory card into the reader.**

Mac OS X (version 10.1/10.2): If a dialog appears, click the red close box.

2. **Double-click the [Canon ImageBrowser] icon on the desktop.**

  • ImageBrowser starts.
  • If the icon does not appear on the desktop, double-click the folder in which you installed the program, followed by the [Canon Utilities] and [ImageBrowser] folders and the [ImageBrowser] file.

Canon ImageBrowser

3. **Double-click the [CANON_DV] and [DCIM] folders in the Explorer View Section.**

The Camera Window opens, displaying the memory card images as thumbnails (small images).

Explorer View Section

Using Other ImageBrowser Functions

Camera Window

The Camera Window opens when a connection to a camcorder is initiated. Images will be displayed as thumbnails (small images). Movies are displayed with the first scene as a still image, indicated with a movie icon. Buttons are activated when an image is selected.

The model name of your camcorder appears in place of the asterisks (*****).

Thumbnails
The image is displayed in reduced size.

Movie icon

[SETUP OPTIONS]:	Adjusts the connection settings and camcorder settings. Menu options: Camera Settings, Communication Settings and My Camera.
[CONNECT CAMERA]:	Reconnects the camcorder to the computer.
[SELECT]:	Selects images. Menu options: Select All and Deselect All.
[DELETE]:	Deletes selected images.
[DOWNLOAD]:	Downloads selected image to the computer.
[PRINT]:	Prints selected still images. Menu options: Layout printing and Index printing.
[ROTATE]:	Rotates still images. Menu options: 90 degrees right, 90 degrees left and 180 degrees.
[UPLOAD]:	Adds selected still images to the memory card.
[IMAGE INFO]:	Displays image information (such as shooting date/time and image size).
[SLIDE/DPOF]:	The [SLIDE] function cannot be used. [DPOF] allows you to select the print order settings.

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Camera Settings Window

You can adjust the date, time and owner settings in the Camera Settings window using the computer when the camcorder is connected. You can also check the remaining memory card capacity.

1. In the Camera Window, click the [SETUP OPTIONS] button and select [Camera Settings] from the displayed menu.
2. Check or change the settings.
   Click [OK] to close the window.

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

Set the date and time here.

Check this box to synchronize the camcorder to the computer's date and time settings.

Check the power status here.

Click this to format the memory card in the camcorder.

Check the remaining memory card capacity here.

Browser Window

This section describes the various parts of the Browser Window display.

Explorer View Section
Displays the disks and folders that you can use on your computer.
If you click the disclosure triangle on the left edge of the display, you can switch between collapsing and expanding the contents of that folder.

Browser Area
Displays the images contained in the selected folder.

You can select to display thumbnails or preview images.

Image Name
This is where the file name of each individual image is displayed.

You can drag this line to change the position of the boundary between the Explorer View Section and the Browser Area.

Control Panel
This area contains buttons that allow you to perform a variety of functions.

You can drag this part of the frame to change the size of the Browser Window.

[CANON CAMERA]: Displays the Camera Window.
[SELECT]: Selects all images in a folder. Menu options: Select All and Deselect All.
[SEND TO TRASH]: Deletes selected images.
[REDUCE]: Reduces the size of the thumbnails in the Browser Area.
[ENLARGE]: Enlarges the size of the thumbnails in the Browser Area.
[DISPLAY IMAGE]: Displays a still image in the Image Viewer window, or opens a window for playing back a movie.
[PRINT]: Prints selected still images. Menu options: Layout printing and Index printing.

Macintosh

Image Viewer Window

The Image Viewer window appears when you double-click a still image, or when you select a still image and click [DISPLAY IMAGE].

Enlarge or reduce the still image

Current zoom ratio

CROP
You can extract a part of the still image.
1. Click on the still image and drag to form a rectangular frame.
   You can move or change the size of the frame.
2. Click this button to extract the area within the frame.
   The extracted part of the still image appears.

ADJUST COLOR
Click here to display the Adjust Color window to adjust hue, saturation and lightness of the still image by dragging the respective slide.

Displaying the Image Information

You can check the image information such as shooting date/time or file size.

E

1. Select the image of which you wish to display the information.

2. From the [File] menu, select [Get Info].

- The File Information window appears.
- If you wish to add a comment, input it in the [Comment] area.
- Click [OK] to close the window.

❍ It depends on your camcorder model which image information will be displayed.
❍ When you modify and save an image using another program, shooting information or comments may be lost.

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[View] Menu

You can select the display settings of the Browser Area by selecting [View Settings] from the [View] menu.

Allows you to enlarge and reduce the size of the thumbnails.

Allows you to enlarge or reduce the size of the thumbnails.

Allows you to select the information displayed under the thumbnails.

Allows you to select the operating panel displayed below the Browser Area.

If you select [View Mode] followed by [Preview] from the [View] menu, you can display a preview of an image in the Browser Area. To stop displaying the preview image, select [View Mode] followed by [List] in the [View] menu.

Displaying Images in TimeTunnel

This program displays images in the order of the creation date.

1. In the [View] menu, select [View Mode] followed by [TimeTunnel].

The image information will be displayed when you point at an image.

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.

[Switch to Browser View]:
Exit TimeTunnel, and returns to the previous screen.

Double-click a thumbnail to display it in another window.

Tool Panel

Makes the TimeTunnel rings octagonal.

Changes the number of TimeTunnel rings.

Allows you to specify the date for the images displayed.

Makes the TimeTunnel look curved.

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Playing Back Movies From a Memory Card

In the Camera Window and Browser Area, movies are displayed with the first scene as a still image with a movie icon (🎞). When you double-click the thumbnail in the Browser Area, QuickTime Player starts and plays back the movie.

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

QuickTime Player starts.

2. Click the ▶ (play) button in QuickTime Player.

The movie will be played back.

Running a Slide Show

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

View	Canon Camera	Sou
New Browser Window		
View Mode	▶	
View Settings	▶	
25%		
50%		
75%		
✓ 100%		
200%		
Enlarge	⌘+	
Reduce	⌘–	
View Actual Image		
Slide Show		
Slide Show Options...		
Refresh	⌘R	

2. **Select the slide show settings and click [OK].**
- [Auto Play]: Moves to the next still image automatically. 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.
- [Hide 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.

Adding Sound to a Still Image

1. In the Browser Area, select a still image and select [Record] from the [Sound] 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 format (extension ".AIF") to the same folder as the still image.

To remove sound from a still image, select [Send to Trash] from the [Sound] menu. ◀▌ disappears and the copied sound file will be deleted.

Playing Back the Sound

In the Browser Area, select the still image with the sound attachment and select [Play] from the [Sound] menu.

• The sound will be played back.
• You can control playback by selecting [Pause] or [Stop] from the [Sound] menu.

Using the Sound Panel

You can use the sound panel to record, playback and adjust the volume.

1. **From the [View] menu, select [View Settings] and select [Sound Panel] from the displayed menu.**

The sound panel appears.

2. **In the Browser Area, select the still image with the sound attachment.**

You can record or play back the sound, adjust the volume, or stop or pause playback.

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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].**

Create Image for Email

You can create a file appropriately sized for sending via e-mail.
You can also send the file without compressing it. To send the file without compressing it, select
[Send without changing the file size]. To send a compressed file, 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.

Normally, select this option.

○ Send without changing the file size
◉ Resize, compress, and send

Selected File Information
Still Image File Count : 1   Still Image File Total Size : 196KB
Movie File Count : 0   Movie File Total Size : 0KB
Total File Count : 1   Total size : 196KB

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

Next >   Cancel

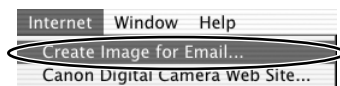*4.* **Specify the reduction ratio and image quality and click [Next].**
- [Resize (%)]: Select the reduction ratio relative to the original size of the image.
- [Quality]: Select the image quality. The lower the quality, the rougher the image becomes, but the size of the file also becomes smaller.
-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

Create Image for Email

Set the still image and movie compression settings, click [Compress] and check the file size.
After setting the compression settings, click [Next] and go to the next step.

Total Size Before Compression
File Count : 1   Total Size After Compression : 196KB

Compress settings
Still Image File Settings
Resize(%) 100   Quality _____
                        Low   High
Compress   Preview   Compressed still image file total size : 0

Movie File Settings
Image Quality Settings ◉ Original Image Quality
                        ○ Low Image Quality (Size : 160x120 Frame Rate: 8fps)
Play Time ◉ Original Time
           ○ Quick Play (5 seconds)
Compress   Compressed movie file total size : 0

Total Size After Compression : 0

< Back   Next >   Cancel

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.

Explorer View Section

Attaching Images to E-mail Messages

❍ You can set the e-mail software to start automatically in step 5. Note that some e-mail software may not start automatically.
Mac OS 9.0 ~ 9.2: From the Apple menu, select [Control Panel], followed by [Internet] and click the [Email] tab. Change the setting in the displayed window.
Mac OS X (version 10.1/10.2): From the Apple menu, select [System Preferences], followed by [Internet] and click the [Email] tab. Change the setting in the displayed window.

❍ The images in the [Email Images] folder are saved in the following location:
Mac OS 9.0 ~ 9.2: Open the folder you installed ImageBrowser or the [Document] folder, followed by [ImageBrwoserUserData] and [Mail].
Mac OS X (version 10.1/10.2): Open the [Users] folder, followed by [User login name], [Library], [Preferences], [ImageBrowserUserData], and [Mail].

Printing Still Images (ImageBrowser)

You can select the layout when printing still images. Movies cannot be printed.

1. **Select the still image(s) you wish to print in the Browser Window.**

2. **Click [PRINT] and select [Layout printing] from the displayed menu.**

   • The Layout Options window and Print window appears.
   • If the Layout Options window does not appear, display it by clicking [LAYOUT OPTIONS] in the Print window.

Print Window

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E

3. **In the Layout Options window, select a layout and click [Next].**

The Custom Layout printing option allows you to freely change the size and position of the still images for printing. The other options allow you to print an index or print onto Canon perforated paper. Canon perforated paper cannot be selected with Mac OS X (version 10.1/10.2).

4. **Select a paper size and click [OK].**

• The Print window opens, allowing you to change the layout and printing settings.
• The settings available will vary according to the type of layout selected in Step 3.

5. **Click [PRINT] in the Print window.**

The Print dialog appears.

6. **Click [Print].**

Printing starts.

The Print Window

Change the Image Size
Drag the border to resize the still image.

Edit the Page Title
Open the [Edit] menu and select [Edit Header].

Change the Layout
Drag the still image to change the layout.

Add Text
Open the [Edit] menu and select [Add Text].

Add Captions to Still Images
Click the still image and then the [Edit] menu and select [Edit Caption].

Change the default number of still images printed per page.

Click this to rotate the selected still image.

Click this to reset the layout.

Click this to display the Print dialog.

Click this to select a layout type.

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Adjusting Image Quality and Printing (Exif 2.2 Compliant)

ImageBrowser allows you to print images with image quality adjustments. ImageBrowser also supports the Exif 2.2 standard (or Exif Print).

❍ Still images shot with camcorders complying with the Exif 2.2 standard incorporate shooting settings information, such as the shooting conditions and scene mode, along with the image data. The Exif Print adjustment protocol uses this information to correct the image quality more accurately to reflect the shooting settings.

❍ When printing from ImageBrowser, the image quality adjustment settings are active for all still images.

Mac OS 9.0-9.2

1. **Click the [Edit] menu in ImageBrowser and select [Preferences].**

2. **In the Preferences window, select [Print], set the image quality settings and click [OK].**

See *Printing Still Images* for the next steps (113).

A check mark must be placed here to automatically correct the image quality.

Select this option to automatically correct images shot with Exif 2.2 compliant camcorders and other images.

Select this option to automatically correct only images shot with Exif 2.2 compliant camcorders.

1. **Click the [ImageBrowser] menu in ImageBrowser and select [Preferences].**

ImageBrowser	File	Edit
About ImageBrowser...		
Preferences...		
Services		▶
Hide ImageBrowser		⌘H
Hide Others		
Show All		
Quit ImageBrowser		⌘Q

2. **In the [Preferences] window, select [Print], set the image quality settings and click [OK].**

See *Printing Still Images* for the next steps (☐ 113).

A check mark must be placed here to automatically correct the image quality.

Select this option to automatically correct images shot with Exif 2.2 compliant camcorders and other images.

Select this option to automatically correct only images shot with Exif 2.2 compliant camcorders.

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Selecting the Print Mode and Number of Copies (DPOF Print Settings)

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

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.

1. Click ♨ (SLIDE/DPOF) in the Camera Window.

The Edit Slide/DPOF window appears.

2. Select the still image you wish to print and the number of copies.

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

3. Click [Save to Camera].

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

Merging Panoramic Images (PhotoStitch)

You can merge a series of overlapping 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. Click the green stitch mark in the Camera Window.

Still images recorded with the camcorder's Stitch Assist mode

2. In the confirmation window, click [Yes].

PhotoStitch starts.

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3. **Arrange the order of the images and click [2.Merge].**

Operational instructions are displayed in the upper section of the window.

4. **Click [Start].**

5. **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.

❍ 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 format, you can then get a virtual view of the surroundings by manipulating the mouse.

❍ For more details, please refer to the PhotoStich Help menu.

Exporting Images

You can change the size, resolution or file format of selected still images. You can also export selected movie and still image information to a text file, or copy and rename movies and still images.

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

2. **From the [Edit] menu, select [Write a still image].**

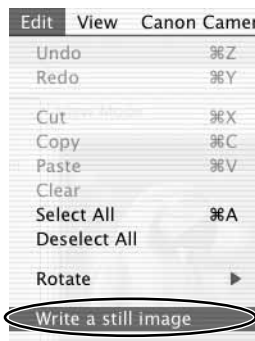| Edit	View	Canon Camer
Undo		⌘Z
Redo		⌘Y
Cut		⌘X
Copy		⌘C
Paste		⌘V
Clear		
Select All		⌘A
Deselect All		
Rotate		▶
Write a still image		

3. **Select the export type and click [Next].**
- [Resave the image]: Converts still images to another file format, resizes and saves them as new files. You can select the file format from JPEG, PICT, TIFF, and BMP. You can also specify a prefix to be added to the exported images.
- [Write the image info]: Exports selected movie and still image information to a text file.
- [Rename the file and copy]: Renames and copies selected movies and still images. You can also specify a prefix to be added to the exported images.

Write a still image

Select the desired processing

⦿ Resave the image
   Convert image to another format and resize

◯ Write the image info
   Save the selected image's info in a file

◯ Rename the file and copy
   Copy the selected image with a new name

(Cancel)   (Next >)

4. Specify the export settings and click [Finish].

The options for the export settings vary according to the export type. Follow the instructions displayed in the window. In each case, specify the destination folder and file name for the images to be exported.

Adding Still Images from Your Computer to the Memory Card

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

○ Still images in EXIF-JPEG, TIFF, PICT, and Windows bitmap format can be added to a memory card. However, the still images will be saved in JPEG format on the memory card.

○ You can also add still images to a memory card by using drag and drop to move it from the browser area to the Camera window.

Adding Still Images to the Memory Card

1. **In the Camera Window, click [UPLOAD].**

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

You can check the selected still image.
Mac OS 9.0-9.2: Click [Show Preview].
Mac OS X (version 10.1/10.2): Click the file name.

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3. **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 Camera Window.

Adding Sample Images to the Memory Card

You can add sample images for card mix and card animation to the memory card. 4 images for CARD CHROMA, 2 images for CARD LUMINANCE, 2 images for CAMERA CHROMA and 4 images for CARD ANIMATION are provided on the DIGITAL VIDEO SOLUTION DISK For Macintosh.

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

2. **In the Camera Window, click [UPLOAD].**

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

The folders [CARD CHROMA], [CARD LUMINANCE], [CAMERA CHROMA] or [CARD ANIMATION] appear.

4. **Open the [CARD CHROMA], [CARD LUMINANCE], [CAMERA CHROMA] or [CARD ANIMATION] folder, select the image you wish to copy to the camcorder and click [Open].**

5. **In the Add Image window, click [Add].**
- The selected images will be recorded to the memory card.
- When recording is complete, the images will appear in the Camera Window.

Customizing Your Camcorder with the My Camera Settings

The start-up image, start-up sound, operation sound, self-timer sound and shutter sound are called the My Camera Settings.
ImageBrowser 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 (🔲 129) or add still images to the My Camera Settings (🔲 130).

> 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. **From the [Edit] menu in the Browser Window, select [My Camera].**

The Select My Camera window appears.

2. **Select [Start-up Image, Start-up Sound, Operation Sound, Selftimer Sound and Shutter Sound] and click [OK].**

Select My Camera

Please select a sort of My Camera which your camera supports

◉ Start-up Image, Start-up Sound, Operation Sound, Selftimer sound and Shutter sound

○ Start-up Image only

Cancel   OK

3. **Click [View Camera] to display the My Camera Settings of the camcorder.**

My Camera

Type: Theme

Computer
221
321
ANIMAL022
ANIMAL023
BAR21
BASEBALL21
CHIMPAN21
ETHDANCE21

View Camera

Add   Send to Trash

Play

Canon

Save ToMacintosh HD(ENG):Users:testuser:Library:Preferences:ImageBrowserUserData:

Save to Camera   Close

Alternatively, you can display the My Camera window from the Camera Window by clicking [SETUP OPTIONS] and selecting [My Camera] from the displayed menu.

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My Camera Window

Saves the setting from the computer to the camcorder.

Saves the setting of the camcorder to the computer.

Selects the type of the My Camera Settings.

Displays the My Camera Settings saved on the computer.

Adds an image / sound file to the [Computer] list.

Displays the My Camera Settings of the camcorder.

Deletes a setting from the [Camera] list.

Saves the setting from the camcorder to the computer.

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

Deletes a setting from the [Computer] list.

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

My Camera

Type: Theme

Computer

221
321
ANIMAL022
ANIMAL023
BAR21
BASEBALL21
CHIMPAN21
ETHDANCE21

Add... | Send to Trash

Play

Camera (Only editable items display)

2:221
3:321

Play | Delete...

Canon

Save To Macintosh HD(ENG):Users:estuser:Library:Preferences:ImageBrowserUserData:

Save to Camera | Close

Saving the My Camera Settings to the Camcorder

1. **In the My Camera window, select the theme set you wish to save to the camcorder in the [Computer] list.**

• To change the settings individually, select the setting type in the [Type] list.
• A window appears when you select a theme set and plays back the start-up, operation, selftimer and shutter sound.

2. **Select the setting you wish to replace in the [Camera] list and click** → **.**

3. **On the confirmation window, click [OK].**

4. **Click [Save to Camera].**

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5. **On the confirmation window, click [OK].**

- The selected setting replaces the old setting and appears in the [Camera] list.
- 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.
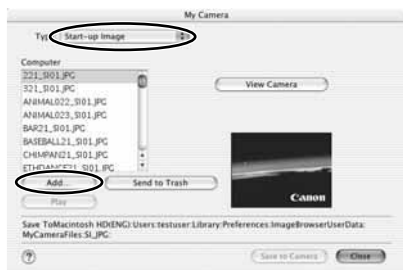
Adding Still Images to the My Camera Window

❍ 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.
❍ Sound cannot be added.

1. **In the My Camera window, select [Start-up Image] in the [Type] list and click [Add].**

The [Select an image to add] window appears.

2. **Select the still image file (JPEG) you wish to add and click [Open].**

The selected file appears in the [Computer] list. You can now save the newly added file to the camcorder using the procedures described in *Saving the My Camera Settings to the Camcorder* (□ 129).

To delete a setting, select the file and click the [Send to Trash] button below the [Computer] list.

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 and PhotoStitch
Move the program's folder into the Trash to uninstall programs such as ImageBrowser and PhotoStitch.

❍ 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.

➜ **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: Genuine Apple Computer brand computer with a built-in USB interface.

➜ **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) and move the TAPE/CARD switch to CARD.

➜ **Camcorder is not correctly connected to the computer.**
Read *Connecting the Camcorder to a Computer* (🕮 91) 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 it not set to the correct mode.**
Turn the POWER switch to PLAY (VCR) and move the TAPE/CARD switch to CARD.

⁇ Image files or folders do not appear in ImageBrowser.

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

Canon

CANON INC.

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