Canon Digital Video Software Windows Instruction Manual

Mode d'emploi

Manual de Instrucciones

Canon	Please Select Language
	English
-	Français
	Español
	Exit

Ε

Version 12

F

Es

Canon Software License Agreement

IMPORTANT - READ THIS AGREEMENT BEFORE USING THE SOFTWARE ON THE CD-ROM IN THIS BOX. BY USING THE SOFTWARE, YOU AGREE TO BE BOUND BY THE TERMS OF THIS AGREEMENT.

This is a license agreement (the "Agreement") between you and Canon Inc. ("Canon"). IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT, DO NOT USE THE SOFTWARE PROGRAM ON THE CD-ROM (INCLUDING ALL SOUND AND IMAGE DATA) AND THE USER MANUAL IN THIS BOX (COLLECTIVELY, THE "SOFTWARE") AND PROMPTLY RETURN THE SOFTWARE TO YOUR POINT OF PURCHASE FOR A REFUND. In consideration of the right to use the SOFTWARE, you agree to abide by the terms and conditions of this Agreement.

 LICENSE: Canon grants you the personal, non-exclusive right to use the SOFTWARE only on a single computer. You may physically transfer the SOFTWARE from one computer to another provided that the SOFTWARE is used on only one computer at a time. You shall not install or use the SOFTWARE on a network, multiple CPU, multiple site arrangement, or any other hardware configuration where the SOFTWARE is accessible to more than one CPU or to more than one user.

With respect to the sound and image data ("Data") contained in the Software, which are to be downloaded to the applicable Canon digital camera product, Canon grants you a personal, non-exclusive license to use the Data on a single Canon digital camera product only.

YOU SHALL NOT ASSIGN, SUBLICENSE, RENT, LEASE, LOAN, CONVEY OR OTHERWISE USE, TRANSFER, COPY, TRANSLATE, CONVERT TO ANOTHER PROGRAMMING LANGUAGE, ALTER, MODIFY, DECOMPILE OR DISASSEMBLE THE SOFTWARE, IN WHOLE OR IN PART, EXCEPT AS EXPRESSLY PROVIDED IN THIS AGREEMENT.

- 2. BACK-UP COPY: You may make one copy of the SOFTWARE solely for back-up purposes, or copy the SOFTWARE onto the permanent storage device (e.g. a hard disk) of your computer and retain the original for back-up purposes. Any other copying of the SOFTWARE is a violation of this Agreement. You must reproduce and include the copyright notice on the back-up copy.
- 3. SUPPORT AND UPDATES: Neither Canon, nor its subsidiaries, dealers or distributors will be responsible for providing maintenance or support for use of the SOFTWARE. No updates, fixes or support will be made available for the SOFTWARE.
- 4. LIMITED WARRANTY AND LIMITATION OF LIABILITY: It is your responsibility to choose, maintain and match the hardware and software components of your computer system. Thus Canon does not guarantee uninterrupted service or correction of errors or that the functions or performance of the SOFTWARE will meet your requirements. THE SOFTWARE IS LICENSED ON AN "AS IS" BASIS AND WITHOUT WARRANTY OR CONDITION OF ANY KIND. The CD-ROM storing the SOFTWARE is warranted only against defective material under normal use for a period of ninety (90) days after purchase from an authorized Canon dealer as evidenced by your sales receipt. Your sole remedy for a defective CD-ROM shall be replacement of the same without charge when returned by you at your expense to your point of purchase and proven to be defective upon inspection. The Replacement CD-ROM will be warranted for the remainder of the original ninety (90) day warranty period of the defective CD-ROM. The limited warranty does not apply if the failure of the CD-ROM resulted from accident, abuse or misapplication of the SOFTWARE and shall not extend to anyone other than the original user of the SOFTWARE.

EXCEPT AS SPECIFICALLY SET FORTH IN THIS PARAGRAPH 4, CANON, CANON'S SUBSIDIARIES, DISTRIBUTORS AND DEALERS DISCLAIM ALL WARRANTIES, OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE SOFTWARE.

NEITHER CANON NOR ANY OF CANON'S SUBSIDIARIES, DISTRIBUTORS OR DEALERS IS LIABLE FOR ANY DAMAGES HOWSOEVER CAUSED, INCLUDING WITHOUT LIMITATION, DIRECT, CONSEQUENTIAL OR INCIDENTAL LOSS OR DAMAGE INCLUDING LOSS OF PROFITS, EXPENSE OR INCONVENIENCE HOWSOEVER CAUSED OR ARISING OUT OF THE SOFTWARE OR THE USE THEREOF.

NEITHER CANON, NOR ANY OF CANON'S SUBSIDIARIES, DISTRIBUTORS OR DEALERS SHALL HAVE ANY OBLIGATION TO INDEMNIFY YOU AGAINST ANY CLAIM OR SUIT BROUGHT BY A THIRD PARTY ALLEGING THAT THE SOFTWARE OR THE USE THEREOF INFRINGES ANY INTELLECTUAL PROPERTY OF SUCH THIRD PARTY.

SOME STATES, PROVINCES OR LEGAL JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, OR THE LIMITATION OR EXCLUSION OF LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR PERSONAL INJURY OR DEATH RESULTING FROM NEGLIGENCE ON THE PART OF THE SELLER, SO THE ABOVE DISCLAIMERS AND EXCLUSIONS MAY NOT APPLY TO YOU.

5. TERM: This Agreement is effective upon your using the SOFTWARE and remains in effect until expiration of all copyright interests in the SOFTWARE unless earlier terminated. You may terminate this Agreement by destroying the SOFTWARE. This Agreement will also terminate without notice to you if you fail to comply with any of the terms of this Agreement and you must then promptly return the SOFTWARE. In addition, Canon may enforce its other legal rights.

6. U.S. GOVERNMENT RESTRICTED RIGHTS NOTICE:

The SOFTWARE is a "commercial item," as that term is defined at 48 C.F.R. 2.101 (Oct 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.72024 (June 1995), all U.S. Government End Users shall acquire the SOFTWARE with only those rights set forth herein. Manufacturer is Canon Inc./30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan.

7. EXPORT RESTRICTIONS: You agree to comply with all export laws and restrictions and regulations of the country involved, and not to export or re-export, directly or indirectly, the SOFTWARE in violation of any such laws and restrictions and regulations, or without all necessary approvals.

8. SEVERABILITY:

In the event that any provision of this Agreement is declared or found to be illegal by any court or tribunal of competent jurisdiction, such provision shall be null and void with respect to the jurisdiction of that court or tribunal and all the remaining provisions of this Agreement shall remain in full force and effect.

9. CONTROLLING LAW: The terms of this Agreement as it relates to purchases of the Software in the United States of America shall be governed and construed in all respects in accordance with the laws and regulations of the State of New York, without reference to choice of law principles. The terms of this Agreement as it relates to purchases of the Software in Canada shall be governed by the laws of the province of Ontario.

READ CAREFULLY BEFORE USING

10.OWNERSHIP: All rights, including but not limited to copyrights and trade secret rights, to the SOFTWARE belong to Canon, its affiliated corporations and third party licensors. Your use of the SOFTWARE is subject to the laws of the United States, and Canada, and other applicable copyright and trademark laws, and nothing in this Agreement constitutes a waiver of the rights of Canon, its affiliated corporations and third party licensors under such laws. You only own the CD-ROM media in which the Software is stored. Except as expressly provided herein, no license or right, express or implied, is hereby conveyed or granted by Canon to you for any intellectual property of Canon. Nothing contained in Paragraph 1 shall be construed to give Canon any ownership rights in any images, graphics or textual material that you save in connection with the Software.

You may not modify, remove or delete any or all copyright notices (i) which are contained in the Software, including any copy thereof, and (ii) which are on the original CD-ROM and on the medium of a back-up copy made pursuant to Section 2 above.

11.ACKNOWLEDGEMENT: BY USING THE SOFTWARE, YOU ACKNOWLEDGE THAT YOU HAVE READ THIS AGREEMENT, UNDERSTOOD IT, AND AGREE TO BE BOUND BY ITS TERMS AND CONDITIONS. YOU ALSO AGREE THAT THIS AGREEMENT IS THE COMPLETE AND EXCLUSIVE STATEMENT OF AGREEMENT BETWEEN YOU AND CANON CONCERNING THE SUBJECT MATTER HEREOF AND SUPERSEDES ALL PROPOSALS OR PRIOR AGREEMENTS, VERBAL OR WRITTEN, AND ANY OTHER COMMUNICATIONS BETWEEN THE PARTIES RELATING TO THE SUBJECT MATTER HEREOF. NO AMENDMENT TO THIS AGREEMENT SHALL BE EFFECTIVE UNLESS SIGNED BY A DULY AUTHORIZED OFFICER OF CANON.

Contents

READ CAREFULLY BEFORE USING	
Canon Software License Agreement	
Read This First	
Checking Supplied Accessories	
System Requirements	
What Can Be Accomplished with the Software	11
Installing the Digital Video Software	12
Connecting the Camcorder to a Computer	17
Downloading Images (ZoomBrowser EX)	19
Starting ZoomBrowser EX	
Using the Computer to Download Images	22
Using the Camcorder to Download Images (Direct Transfer Function)	
Using a PC Card Reader/Writer	
Using Other ZoomBrowser EX Functions	
Camera Window Download Settings Window	
Camera Settings Window	
Main Window	
Image Viewer Window	
Playing Back Movies From a Memory Card	
Editing Movies (MovieEdit Task)	
Exporting Movies (MovieExport Task)	
Running a Slide Show	
Searching Images	
Searching Images	
Setting Parameters for Future Searches	
Adding Sound to an Image	49
Adding Sound to an Image	
Playing Back the Sound	
Attaching Still Images to E-mail Messages	
Printing Still Images (PhotoRecord)	
Selecting the Print Mode and Number of Copies (DPOF Print Settings)	
Merging Panoramic Images (PhotoStitch)	
Exporting Images	
Adding Still Images from Your Computer to the Memory Card	64
Adding Still Images to the Memory Card	
Adding Sample Images to the Memory Card	
Saving Images on CD-R/RW Disks (Windows XP Only)	
Customizing Your Camcorder with the My Camera Settings	72
Saving the My Camera Settings to the Camcorder	
My Camera Window Adding Still Images to the My Camera Window	
Creating an Original Sound File and Adding it to the My Camera Window	76

Ε

Contents

Auto-Downloading Settings	79
Uninstalling the Software	82
Uninstalling ZoomBrowser EX	
Uninstalling the TWAIN Driver/WIA Driver	
Troubleshooting	84

Read This First

Disclaimer

- While every effort has been made to ensure that the information contained in this guide is accurate and complete, no liability can be accepted for any errors or omissions. Canon reserves the right to change the specifications of the hardware and software described herein at any time without prior notice.
- No part of this guide may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without the prior written permission of Canon.
- Canon makes no warranties for damages resulting from corrupted or lost data due to mistaken operation or malfunction of the camcorder, the software, memory cards (MultiMediaCards or SD Memory Cards), personal computers, or peripheral devices, or due to use of a memory card not formatted by a Canon camcorder.

Trademark Acknowledgments

- Canon is a registered trademark of Canon Inc.
- QuickTime is a trademark of Apple Computer Inc.
- Microsoft[®] and Windows[®] are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Other names and products not mentioned above may be registered trademarks or trademarks of their respective companies.

Copyright © Canon Inc. 2004 All rights reserved.

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.

Read This First

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



The explanations in this manual use mainly Windows XP screen shots.

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
	For all of the above OSs: Pentium 500 MHz or better is
	recommended (for editing movies)
RAM:	Windows 98/Windows Me/Windows 2000: 64 MB or more
	Windows XP: 128 MB or more
	For all of the above OSs: 128 MB or more is
	recommended (for editing movies)
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
	 Canon DV TWAIN Driver: 25 MB or more
	Canon DV WIA Driver: 25 MB or more
Display:	800×600 pixels/High Color (16 bit) or better,
	1024×768 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.

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

E

Windows

System Requirements

O 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 Windows.

TWAIN Driver (11 14)

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 (11 14)

WIA Driver is the driver software for Windows Me that is required for downloading images from a memory card to a computer.

ZoomBrowser EX (11 19)

- Downloading images from a memory card to your computer.
- Categorizing, organizing, and searching large volumes of images.
- Creating mail attachments from still images. (Your e-mail software needs to be enabled as MAPI client.)
- Exporting images.
- Saving images on CD-R/RW Disks (Windows XP only).

MovieEdit Task (11 35)

- Linking images.
- Inserting text and background music, and adding effects.

MovieExport Task (11 39)

Changing the size or file format of selected movies and saving them as new files.

PhotoRecord (1 53)

- Laying out and printing still images.
- Printing indexes.
- Creating still image albums.

PhotoStitch (1 58)

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 Digital Video Software



- O Be sure to install the Digital Video Software before connecting the camcorder to the computer.
 - O 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.

- O It may take a few minutes, after connecting the camcorder, until you can download images.
- O Images protected on the camcorder may lose this setting once they are downloaded to the computer.

1. Check a camcorder is not connected to the computer.

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

2. Close any programs that are running.

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

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

Windows 98/Windows Me/Windows 2000:

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

Windows XP:

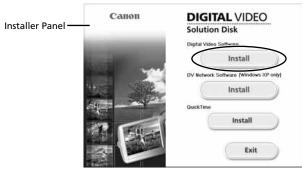
- 1. Select [My Computer] from the [start] menu.
- 2. Right-click the CD-ROM icon and select [Open] from the displayed menu
- 3. Double-click the [Setup.exe] icon.

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

4. Select your language.

5. Click Digital Video Software [Install].

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

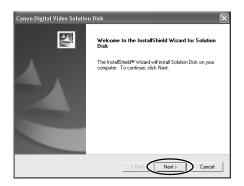


If the following dialog appears, click [Restart] to restart the computer. After restarting the computer, installation automatically continues.



Installing the Digital Video Software

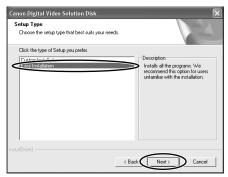
6. Click [Next].



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

To install the software individually, select [Custom Installation]. When you select [Custom Installation], select a USB driver. (Windows XP: The USB driver supplied with the Windows operating system is used. You do not need to install a USB driver.)

- Windows 98/Windows 2000: Canon DV TWAIN Driver
- Windows Me: Canon DV WIA Driver



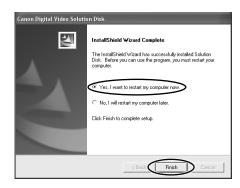
- 8. Select your country/region and click [Next].
- 9. Read the license agreement and click [Yes].

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

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



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



E

Installing the Digital Video Software

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 Me/Windows 2000: At this point, the files for the TWAIN Driver or WIA Driver have only been copied to your computer. To download images via USB connection, finish installing the TWAIN Driver or the WIA Driver. For details, see step 4 in *Connecting the Camcorder to a Computer* (C 17).

Connecting the Camcorder to a Computer



- O Make sure the camcorder is being powered using the power adapter before connecting it to a computer.
 - O Be sure to install the Digital Video Software before you connect the camcorder to the computer.
 - O 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
 - O 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.
 - O Do not connect two or more camcorders to the computer. The camcorders may not operate normally.
 - O Never allow the computer to go into standby (sleep) mode while a camcorder is connected via the USB interface.



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

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

- **2.** Connect the power adapter to the camcorder.
- **3.** Turn the POWER switch to PLAY (VCR) and move the TAPE/ CARD switch to CARD.

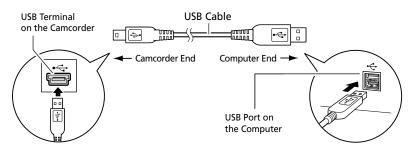
Wait until the card access indicator stops flashing.

- **4.** Attach the supplied USB cable to the computer's USB port and the camcorder's USB Terminal.
 - The first time you connect the camcorder to the computer:
 - Installation of the DV TWAIN Driver (Windows 98/Windows 2000) or the DV WIA Driver (Windows Me) starts.
 - If the "Digital signature not found" message appears, click [Yes].
 - After a few moments, a message such as "New Hardware Found" appears and the driver will be installed automatically.
 - If you are prompted to restart the computer, restart the computer.
 - Windows 98/Windows 2000/Windows XP: A window appears allowing you to select an application program to start. Windows Me: The Scanners and Cameras Wizard starts. Click [Cancel] to close the Wizard.

Windows

Connecting the Camcorder to a Computer

• For instructions on how to start ZoomBrowser EX and download images to the computer, see *Downloading Images* (<u>1</u> 19).



Downloading Images (ZoomBrowser EX)



• O 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.
- O 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.
- O 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.
 - A movie file exceeding 210 MB cannot be downloaded.
 - If the Server Busy window appears when you connect the camcorder to the computer, click [Retry].

Server	Busy	?×
	This action cannot be completed because the other program is busy. Choose 'Switch To' to activate the busy program and correct the problem.	
	Switch To	sel

• You cannot connect the camcorder to a computer if the memory card contains more than 1800 images. For best performance, we recommend keeping the number of images on the memory card below 100 when downloading images to the computer.



For instructions on how to connect a PC card reader/writer, see Using a PC Card Reader/Writer (\square 25).

Starting ZoomBrowser EX

- **1.** Connect the camcorder to the computer (\square 17).
- **2.** Select [Canon CameraWindow] and click [OK].



- Windows XP: If the window does not appear or if "PC CONNECT" does not appear on the camcorder screen, click the Windows [start] menu and select [All Programs], [Canon Utilities], [CameraWindow] and [CameraWindow Set Auto-Launch].
- Windows 2000: If [Canon CameraWindow] is not listed, click the Windows [Start] menu and select [Programs], [Canon Utilities], [CameraWindow] and [CameraWindow Set Auto-Launch].
- Windows Me: If the window does not appear, click the Windows [Start] menu and select [Programs], [Canon Utilities], [CameraWindow] and [CameraWindow Set Auto-Launch].
- If a camcorder and PC card reader are connected at the same time, a dialog appears allowing you to select the camcorder model. Confirm that [Canon Camera] or your camcorder model name is displayed and click [OK].

3. Click [Set].



- The [CameraWindow (Launcher)] icon appears on the taskbar.
- Windows Me: If the following dialog appears, click [OK]. To change the settings, you need to restart the computer.

Camera\	√indow - Set Auto-Launch	×
(i)	The Auto-Launch settings will take effect after you restart your computer.	
	OK	

E

Downloading Images (ZoomBrowser EX)

• The [CameraWindow - Download image(s)] window opens.



- [Start Image Download]: ZoomBrowser EX starts. The Camera Window opens and images will be downloaded to the computer. For details, see *Auto-Downloading* (
 22).
- [List Images]: ZoomBrowser EX starts. The Camera Window opens, displaying the camcorder images as thumbnails (small images). For details, see *Downloading Images from the Camera Window* (C 23).
- [Browse Images with ZoomBrowser EX]: ZoomBrowser EX starts and the Main Window opens.
- The next time you connect the camcorder to the computer, ZoomBrowser EX starts automatically and the [CameraWindow Download Image(s)] window opens.

Using the Computer to Download Images

You can select a downloading method in the [CameraWindow - Download Image(s)] window.

Auto-Downloading

Click [Start Image Download] in the [CameraWindow - Download Image(s)] window.

For instructions on how to set the Auto-download settings, see Auto-Downloading Settings (C 79).

Downloading Images from the Camera Window

1. Click [List Images] in the [CameraWindow - Download Image(s)] window.

ZoomBrowser EX starts and the Camera Window opens.

2. 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.



3. In the Download Settings window, confirm the settings and click [OK] (
 28).

Download Settings	X	
Sets up image downloa	ding.	
Save to folder:		
C:\Documents and Settings\Administrator\My D Browse		
O Do not create new f	older	
 Create new folder 		
Folder name:	 Shooting date 	
	C Downloaded date	
	C Set as new	
Designate prefix of i	mage to be saved	
File prefix:		
	OK Cancel	

Downloading Images (ZoomBrowser EX)

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



Using the Camcorder to Download Images (Direct Transfer Function)

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

When you followed steps 1 to 3 in *Starting ZoomBrowser EX* (\square 20), the direct transfer menu appears on the camcorder screen and the $\square \sim$ (print/share) button lights up each time you connect the camcorder to the computer.

- See your camcorder instruction manual for how to set and operate the camcorder to transfer images.
- For instructions on how to change the destination folder and the folder name, see step 4 in *Auto-Downloading Settings* (C 79).
- The $\square \bowtie$ button cannot be used when it is not lighted.
- You can set the action that is carried out for direct transfer. Right-click the [CameraWindow(Launcher)] icon on the taskbar and select an action from the displayed menu.
 - \checkmark Show image(s) in fullscreen mode
 - Launch ZoomBrowser EX
 - Show Window

```
About CameraWindow(Launcher)...
```

```
Exit
```

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

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 instructions 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 Me/Windows 2000: 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 [Download/View Images using ZoomBrowser EX] and click [OK].

ZoomBrowser EX starts and the [CameraWindow - Download Image(s)] window opens. Move on to step 5.

3. Click [Camera & Memory Card].







Downloading Images (ZoomBrowser EX)

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 [CameraWindow - Download Image(s)] window opens. Select one of the devices to proceed and click [OK].



5. Select a downloading method.

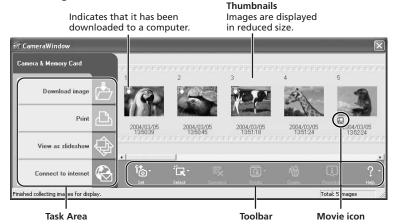
- [Start Image Download]: ZoomBrowser EX starts. The Camera Window opens and images will be downloaded to the computer. For instructions on how to set the Auto-download settings, see *Auto-Downloading Settings* (C 79).
- [List Images]: ZoomBrowser EX starts. The Camera Window opens, displaying the camcorder images as thumbnails (small images).
- [Browse Images with ZoomBrowser EX]: ZoomBrowser EX starts and the Main Window opens.



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.

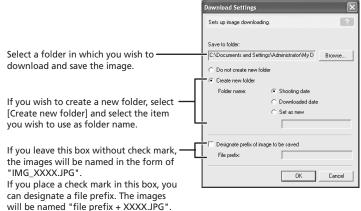


Task Area

[Download ima [Print]:	age]:	Downloads selected images to the computer. Prints selected still images. Menu options: Layout Print and Contact Sheet Print.	
[View as slides	how]:	Starts a slide show after downloading the selected still images to the computer.	
[Connect to Int	ernet]:	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]: [Properties]:	Deletes selected images. Displays image information (such as shooting date/time and image size).		
[Help]:	Displays help topics.		

Download Settings Window

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



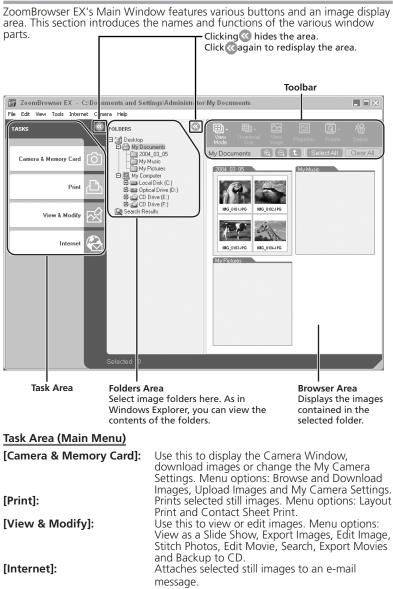
Camera Settings Window

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, and format the memory card.

- 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).	Camera Model: Canon ***** Body ID: Firmware Version: 1.0.0.0
Set the date and time here.	Owner's Name:
Click this button to synchronize the camcorder to the computer's date	Date and Time: 03 / 05 / 2004 08 : 12 PM From PC
and time settings.	Battery Status:
Check the power status here.	Memory card: Format
Check the remaining memory card capacity here.	Status: Installed Free: 7.21 MB Total: 7.58 MB
Click this button to format the memory	OK Cancel Apply

Main Window



Using Other ZoomBrowser EX Functions

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-toview 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.

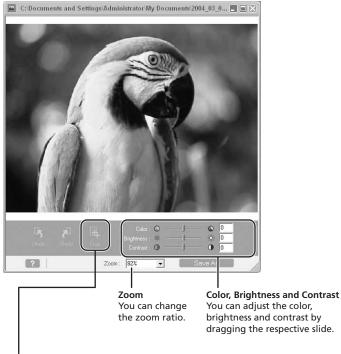


[Rotate]:	Rotates selected still images.
[Delete]:	Deletes selected images.

Using Other ZoomBrowser EX Functions

Image Viewer Window

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



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.



- O 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 [Install] in the installer panel.
- O 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.

In the Main Window, double-click a thumbnail with a (movie) icon.

QuickTime Player starts.



E

Playing Back Movies From a Memory Card

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

The movie will be played back.



Editing Movies (MovieEdit Task)

You can link images, insert text and background music, and add effects. You can also change the size of selected movies and save them as new files.



QuickTime 5.0 or a later version is required to edit movies. If it is not already installed on your computer, install it from the DIGITAL VIDEO SOLUTION DISK For Windows.

Place the disk in the CD-ROM drive and click QuickTime [Install] in the installer panel.

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



2. Click [Edit Movie].



E

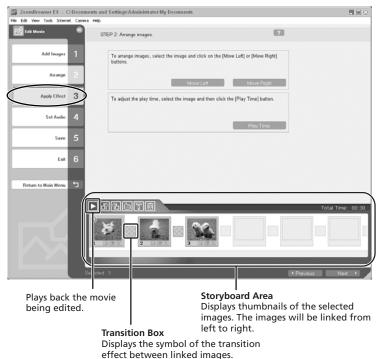
3. Select images and click [Arrange].

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



4. Arrange images and click [Apply Effect].

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



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

When you select [Apply effects to image], you can use the following functions.

- [Text Effect]: Opens the [Text Effect Settings] window. You can enter text, change the font and preview the effect.
- [Filter Effect]: Opens the [Filter Effect Settings] window. You can set the filter effect type, the start and end point, and preview the effect.
- [Transition Effect]: Opens the [Transition Effect Settings] window. You can set the transition effect type and display time, and preview the effect. To set a transition effect, you need to select a transition box in the Storyboard Area.

ZoomBrowser EX - C:	Document	s and Settings/Administrator/My Documents	
File Edit View Tools Internet	t Camera H	мþ	
Edt Movie		STEP 3. Apply effects to image.	
Add Images	1	C Use image as is. C Apply effects to image.	
Atrange	2	When you want to set the Text effects and Filter effects, select an image and click button.	
Apply Effect	3	Text Effect Filter Effect	
Set Audio	4	When you want to set the image's Transition effect, select the [Transition Effect] box and click the [Transition Effect] button. Transition Effect	
saue 2	5		

6. Set the audio and click [Save].

When you select [Set Audio], you can use the following functions.

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

ZoomBrowser EX - C	Documents and	l Settings'Administrator'My Docu	ments		
File Edit View Tools Interne	et Camera Help				
Edit Movie	SI SI	EP 4: Set audio.		?	
Add Images	1	C Use image's audio data as is. Image: Provide the state of			
Arrange	2	To add audio, click the [Add Aud	o] button.		
Apply Effect	3	To not advanced surfix cettings	Add elect [Audio] and click the [Advanced	i Audio	
Set Audio	4	button.		ed Settings	
Save	5		ASKANO	in some	

Editing Movies (MovieEdit Task)

7. Click [Save].

Movies are saved as AVI files in Motion JPEG format.

ZoomBrowser EX - C	ZeomBrowser EX - C:Documents and Settings/Administrator/My Documents 📃 🖬 🖸				
File Edit View Tools Interne	t Camera Help				
Edit Movie	STE	P 5: Save the edit results.		?	
Add Images	1	Movie			
Arrange	2	ave to folder: C:\Documents and Setting	gs\Administrator\My Docum-	Browse	
Apply Effect	3 9	ave format:			
Set Audio	4	Standard setting Save format: MotionJPEG Image Size:320 x 240 Frame Rate:15 Frames/s			
Save	5	Frame Rate, 15 Frames/s			
Exit	6	lick [Save] button to save th	edit results.	Save)
Return to Main Menu	t 2				

Destination Folder

8. Click [Exit].

ZoomBrowser EX - C: Documer	ats and Settings'Administrator'My Documents		
File Edit View Tools Internet Camera	Help		
Edit Movie @	STEP 5: Save the edit results.	?	
Add Images 1	File name: Movie		
Arrange 2	Save to folder: C:\Documents and Settings\Administrator\My D	Browse	
Apply Effect 3	Save format:		
Set Audio 4	Standard setting Save format:MotionJPEG (AVI) Image Size:320 x 240 Frame Rate: 15 Frames/second	Advanced Settings	
Save 5	Frame Rate 15 Frames/second		
Ext 6	Click [Save] button to save the edit results.	Cara	

Exporting Movies (MovieExport Task)

You can change the size or file format of selected movies and save them as new files.



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

Place the disk in the CD-ROW drive and click QuickTime [install] in the installer panel.

○ Still images cannot be selected. For instructions on how to export still images, see *Exporting Images* (□ 61).

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



2. Click [Export Movies].



E

3. Select a movie and click [Select the save format].

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



4. Select a file format and click [Set the save format].

1	JoomBrowser EX - C: Documents a	nd Settings'Administrator'My Documents	
6	ile Edit View Tools Internet Camera Help		
ļ	Export Movies	STEP 2: Select the save format.	
	Select Movies 1	Save format: MotionJPEG (AVI)	
	Select the save format	Format type is same as that of a movie file created by a Canon digital camera.	
(Set the save format	Image size, frame rate and image quality can be set at the next step.	
	Specify name of file to be saved 4	C Rotate	

5. Specify the export settings and click [Specify name of file to be saved].

ZoomBrowser EX - C: Documen	ts and Settings'Administrator/My Doc	cuments		
File Edit View Tools Internet Camera I	Help			
Export Movies	STEP 3: Set MotionJPEG (AVI).		?	
Select Movies 1	Image Size:			
Select the save format	C Zoom specification	50 % × 320 × 240 ×		
Set the save format	Fix the aspect ratio			
Specily name of file to be aved	Frame Rate: 15 (standard)	Frames/second		

6. Specify the file name and click [Start export].

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

ZoomBrowser EX - C:\Documen	ts and Settings'Administrator'My Documents		
File Edit View Tools Internet Camera I	HHD		
Export Movies	STEP 4: Specify name of file to be saved.	?	
Select Movies 1	File name setting:		
Select the save format 2	C Assign Sequence No. Prefix:		
Set the save format 3	Movie		
Specify name of file to be saved 4	Save to folder:		
Start export 5	C:\Documents and Settings\Administrator\My D [Save format information Save format Motion.JPEC (AVI)	Browse	

Destination Folder

The Main Window opens.

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].



E

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

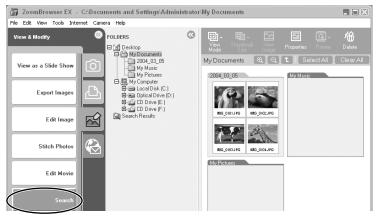
You can search for images marked as your Favorites or by modification date, shooting date or keywords. You can mark images as Favorites (2 47) and add keywords (2 47).

Searching Images

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

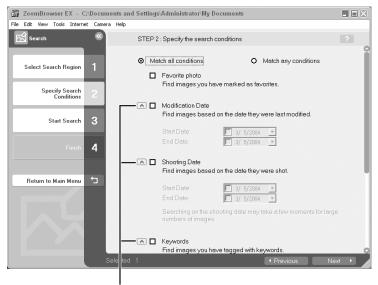


2. Select the folder in which you wish to search for the image and click [Search].



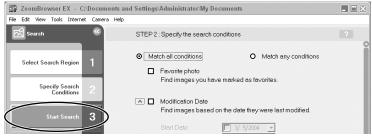
3 Specify the search conditions.

- 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.

Windows

E

Searching Images

5. Click [Finish].

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



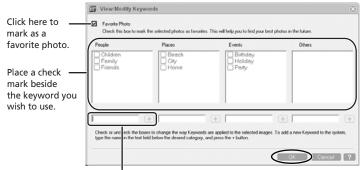
The images of the search result are displayed in the [Search Results] folder. You can print or copy these images to another folder. The images will remain in this folder until ZoomBrowser EX is closed or another search is performed.



- **1** Select an image in the Browser Area.
- **2.** Select [View/Modify Keywords] from the [Tools] menu.



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

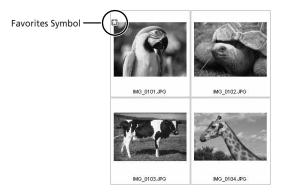


To add a keyword, type the new word in the box and click [+].

E

Searching Images

The symbol shown below is displayed on images marked as Favorites.





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

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

The Sound window appears.

Clear All Rotate Image Add/Remove Sound ... Play Journe Edit Image... My Camera Settings...

Copy

Select All

Chrl+C

Ctrl+A

2. Click [Add].

A window appears allowing you to select a file.



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

4. Click [OK].

- **D** 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. D 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.

E

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].



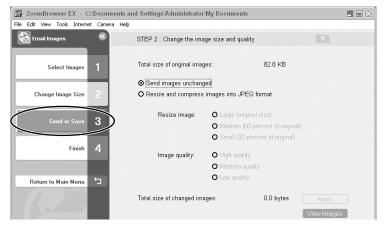
3. Select the still images you wish to send and click [Change Image Size].

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].



Attaching Still Images to E-mail Messages

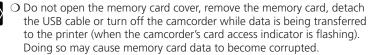
5. Select to send still images by e-mail or to save the still images in a folder and click [Finish].

- 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.



○ If you are using a network printer and the printer name (including the network path) exceeds 31 characters, it may not be possible to print from PhotoRecord. If this happens, click the [Printers] icon from the Windows [Control Panel] and change the name of the printer, limiting its length to within 31 characters.

1. Click [Print] in the Main Window.



2. Click [Layout Print].

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



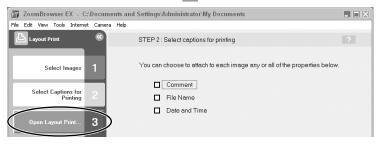
3. Select the still image you wish to print and click [Select Captions for Printing].

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

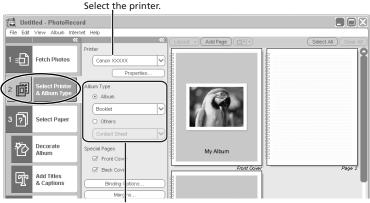


4. Select the image information you wish to include in the print and click [Open Layout Print].

- 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 (Properties).



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



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.

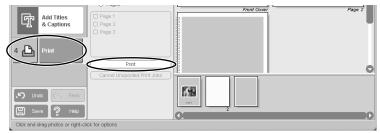


Set the paper type and orientation.

E

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 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.

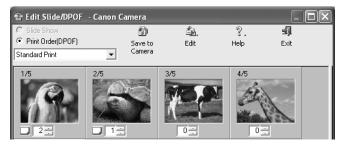


57

Windows

E

- **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



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].

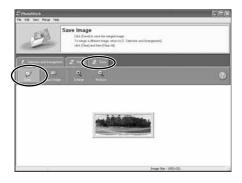


E

Merging Panoramic Images (PhotoStitch)

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.
- To exit PhotoStitch, from the [File] menu, select [Exit].





- You can record the surroundings in 360 degrees, and stitch them together later to form a 360-degrees cylinder. (In [1. Selection and Arrangement], select [Arrange] and [360 degrees].) By saving this stitched image in QuickTime VR 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 [Install] in the installer panel.
 - O Please refer to the PhotoStitch 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 a text file, or copy and rename movies and still images.

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



2. Click [Export Images].



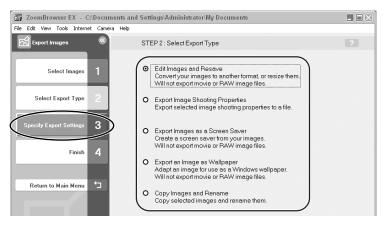
3. Select the images and click [Select Export Type].

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.

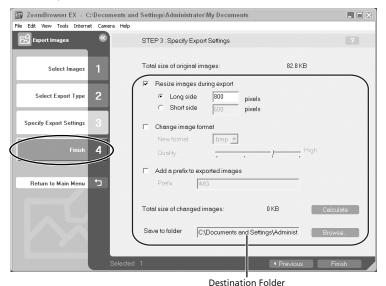




Image information will be saved along with the images when you select [Edit Images and Resave] and save images in JPEG format, or when you select [Copy Images and Rename].

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 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 to the memory card. 4 images for CARD CHROMA and CARD ANIMATION, and 2 images for CARD LUMINANCE and CAMERA CHROMA 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 opens, 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 CAMERA CHROMA, CARD ANIMATION, CARD CHROMA and CARD LUMINANCE 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.



E

Adding Still Images from Your Computer to the Memory Card

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.

Add image
Image will be added after setup is performed.
Add image as is
C Add image after adjusting size
640 × 480
,
Add Cancel

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.



| E |

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

4. Click [Backup to CD].



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



ZoomBrowser EX - C:\Documents and	Settings\Canon\My Docum	ents	
File Edit View Tools Internet Camera Help	STEP 2 : Specify the backup	o settings	?
Select Images 1	Select CD-R Drive:	F:	
	CD Title:		
Specify Backup Settings 2	Speed:	Fastest 🔹	
Start Backup 3		Verify after backup.	
Staft Backup		Use the Verify feature to test the data on the CD-R after backup is complete. This will take longer, but will determine whethe the backup was successful.	r
Return to Main Menu			
	Space on CD-R: Used 0. 656.27 M	00 B, Current Session 122.81 KB, Remaining //B	
	100 200	300 400 500 600	
		are estimates only. The CD burning process d if the remaining space is low.	

6. Set the backup settings and click [Start Backup].

The disk will be ejected from the drive when copying is complete.

Ø

You can add images to a CD-R/RW disk that already contains images.

| E |

Customizing Your Camcorder with the My Camera Settings

The start-up image, start-up sound, shutter sound, operation sound and selftimer 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 (C 75) or create original sounds files (C 76).



Observe following precautions while the My Camera Settings are saved to the camcorder.

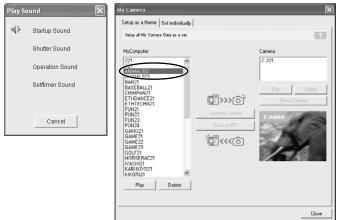
- Do not open the memory card cover or remove the memory card.
- Do not detach the USB cable.
- Do not turn off the camcorder or computer.
- Do not change the position of the POWER switch or TAPE/CARD switch.

Saving the My Camera Settings to the Camcorder

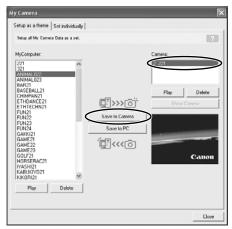
1. In the Main Window, click [Camera & Memory Card] followed by [My Camera Settings].

The My Camera Window (C 74) 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 start-up image 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].

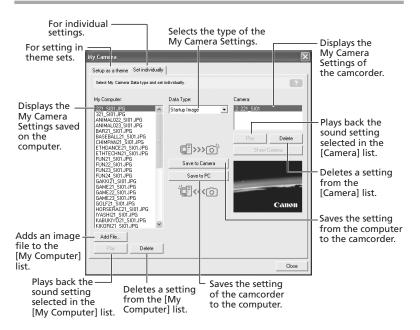
- The selected setting replaces the old setting and appears in the [Camera] list.
- If you wish to use this setting on the camcorder, change the My Camera Setting on the camcorder itself. Refer to the Camcorder Instruction Manual for details.





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



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.

Select My Camera Data type and	set individually.	?
My Computer:	Data Tupe:	Camera:
227_SIM_JPG 227_SIM_JPG ANMALIZ2_SIM_JPG ANMALIZ2_SIM_JPG BASEBUL21_SIM_JPG BASEBUL21_SIM_JPG ETHORACE23_SIM_JPG ETHORACE23_SIM_JPG FUN22_SIM_JPG FUN22_SIM_JPG GAX221_SIM_JPG GAX221_SIM_JPG GAX221_SIM_JPG GAX221_SIM_JPG GAX221_SIM_JPG GAX221_SIM_JPG GAX221_SIM_JPG GAX221_SIM_JPG GAX221_SIM_JPG GAX221_SIM_JPG GAX221_SIM_JPG GAX221_SIM_JPG GAX221_SIM_JPG MASHACL_SIM	Statup Image Sover to Correce Sover to Correce	

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* (\square 72).



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 [Install] in the installer panel.
 - O You need to connect a microphone to the computer.

The My Camera Sound Maker window appears.

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

Camera Help Auto-download setting Camera Settings... Edit Sinterhonce Create a My Camera Sound... Browse or Unwingau Images... Upload Images My Camera Settings...

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



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

My Camera Sound Maker		
Click start button to record.		
0.0 sec		
Start Close		

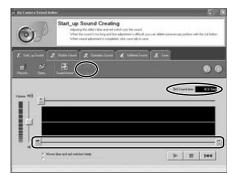
4. Click the [Stop] button to stop recording, and click [Close].

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* (<u>1</u> 72).

My Camera Sound Maker		
Enter save file name. Adds text of sound type to inputed file name , and saves.		
Elemane (up to 10 characters)		

8. Click on the My Camera Sound Maker window.

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.



2. Select [Images are automatically downloaded...] and click [Select Image Type].

If you wish to disable auto-downloading, select [Images are not automatically downloaded...], and click [Setup Completed]. The setup process is complete.

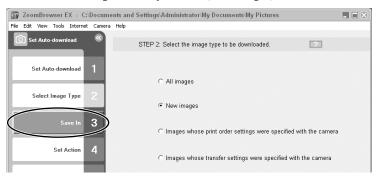


79

Auto-Downloading Settings

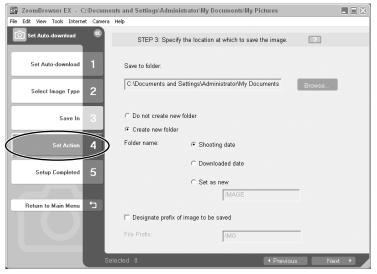
3. Select the image type to be downloaded and click [Save In].

When the protect switch of the SD Memory Card is activated during autodownloading, the images will not be marked as "already transferred", and will be transferred again when you select [New images] later.



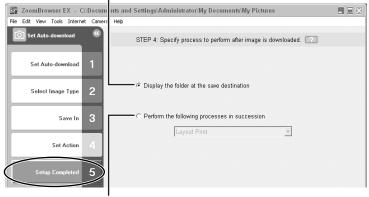
4. Select the destination folder in which you wish to save the image and click [Set Action].

Windows Me: You cannot select the desktop for the destination.



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.





- O Uninstall all programs in [Canon Utilities] when you have uninstalled ZoomBrowser EX.
- O 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 (\square 17).
- 2. If a window for selecting an application program or the Scanners and Cameras Wizard appears, click [Cancel]. If ZoomBrowser EX started, close it.
- **3.** Click the Windows [Start] menu and select [Settings] and [Control Panel].

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

If you cannot find the [Scanners and Cameras] icon, see *TWAIN Driver/WIA Driver Uninstallation* (m 85).

5. Windows 98/Windows 2000:

- 1. Delete [Canon Camera] from the [Scanners and Cameras Properties] list.
- 2. Click [OK] to close the window.
- 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.
- 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 98 (First or Second Edition), Windows Me, Windows 2000, or Windows XP.

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

→ The camcorder is not set to the correct mode.

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

→ Camcorder is not correctly connected to the computer.

Read Connecting the Camcorder to a Computer (
17) 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).

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 (
 17) and check the connection. Ensure that you are using the correct cable and that its connectors are in good shape.
- → Are you using the power adapter to power the camcorder?
- → If the problem is not mentioned above, the TWAIN Driver/WIA Driver may not have been recognized by Windows. Uninstall and reinstall the driver.

TWAIN Driver/WIA Driver Uninstallation

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



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



Use the procedures below for the following circumstances too.

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

Troubleshooting

Windows 98/Windows Me

Leave the camcorder connected to the computer.

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

2. Double-click the [System] icon.

The [System Properties] dialog appears.

3. Click the [Device Manager] tab.

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

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

If the [Inf] Folder Is Not Visible in the [Windows] Folder

- 1. Windows 98: Click the [View] menu and select [Folder Options]. Windows Me: Click the [Tools] menu and select [Folder Options].
- 2. Click the [View] tab.
- 3. Windows 98: Set the [Hidden files] section to [Show all files]. Windows Me: Set the [Hidden files and folders] section to [Show hidden files and folders].
- 4. Click [OK]. This makes the [Inf] folder and files in the [Inf] folder visible.

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

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

8. Find and delete the [CAP_xxx.inf] file.

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

Windows 2000

Leave the camcorder connected to the computer.

- **1.** Click the Windows [Start] menu and select [Settings] and [Control Panel].
- **2.** Double-click the [System] icon.
- **3.** Click the [Hardware] tab.
- 4. Click the [Device Manager] button.
- **5.** If [Canon Camera] or your camcorder model name appears under the [Other Devices] and/or [Imaging Devices] categories, use the following procedures to delete it.
 - 1. Select [Canon Camera] or the name of the camcorder model, right-click the mouse button and select [Delete].
 - 2. In the confirmation dialog, click [OK].
 - 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.
- 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.
- Click [OK] to close the dialog. This makes the [Inf] folder and the files in the [Inf] folders visible.

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

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

8. Delete the [Oem*] file set.

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

If You Were Using ZoomBrowser EX Version 2 or 3 (This manual explains version 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].
 - 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.

Canon

CANON INC.

U.S.A. ————	 Canon U.S.A., Inc. Canon Customer Care Center Tel (US): 1-800-828-4040 (MonFri., 9 AM to 8 PM Eastern Time)
CANADA	— Canon Canada Inc. Tel (Canada): 1-800-OK-CANON (1-800-652-2666)
ASIA	 Canon Hongkong Co., Ltd. 19/F., The Metropolis Tower, 10 Metropolis Drive, Hunghom, Kowloon, Hong Kong Phone: 852-2170-2828 Fax: 852-2723-9684