ENGLISH

CDI-E041

Canon

Software Starter Guide

For Canon Digital Camera Solution Disk Version 8

Windows

Macintosh

To Download Images to a Computer

	for Windows	for Macintosh
Install the Software	p. 22	p. 74
Connect the Camera to a Computer	p. 15	p. 15
Start the Software and Download Images	p. 37	p. 77

- This guide explains how to install the software programs and briefly introduces their functions and operating procedures. For more detailed explanations, see the Help menu for each program.
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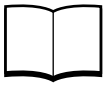
Read Me First
(Windows/Macintosh)

A Guide to the Manuals 2
What Can Be Accomplished with the Software 6
Canon Digital Camera Solution Disk 6
Arcsoft Camera Suite CD-ROM 11
Adobe Photoshop LE CD-ROM 11
Camera and Software Compatibility 12
System Requirements 13
Windows 13
Macintosh 14
Connecting the Camera to a Computer 15
Selecting a Downloading Method 15
Connecting to a USB Port 16
Connecting to a CF Card Reader or PC Card Reader 18

A Guide to the Manuals

The following manuals are supplied with the software products. Please read the respective manual according to the guidelines below.



Software Starter Guide (This Guide)

This manual explains how to install the software and provides a simple description of how you can download images recorded with the camera onto your computer.

Read this Manual for the Following

- When you wish to install/uninstall the software
- When you wish to install/uninstall the USB Driver
- When you wish to download recorded images to your computer
- When you wish to learn the features of ZoomBrowser EX (Windows) and ImageBrowser (Macintosh)

ZoomBrowser EX Software User Guide (Windows)
ImageBrowser Software User Guide (Macintosh)

The manuals in PDF format provide a relatively detailed description of the operating procedures for the ZoomBrowser EX program for Windows and the ImageBrowser program for Macintosh.

Read this Manual for the Following

- When you wish to organize and search for images
- When you wish to edit or add special effects to images
- When you wish to print images
- When you wish to stitch images together into a panoramic image
- When you wish to edit a camera slide show
- When you wish to send an image as an email attachment
- When you wish to save settings, such as the camera start-up image and start-up sound, to the camera from a computer

Card Photo Printer CP-10
Printer Driver User Guide (Windows/Macintosh)

This manual in PDF format explains how to install the printer driver for Card Photo Printer CP-10 (sold separately) onto your computer and connect the printer to the computer for printing.

Read this Manual for the Following

- When you wish to install/uninstall the printer driver (required to use the CP-10)
- When you wish to install/uninstall the USB driver
- When you wish images saved onto the computer to be printed with the CP-10
- When you wish to print original photo cards
- When you wish to print on labels (8-label sheets)

Each software program is also supplied with an onscreen Help menu that explains detailed operating procedures. Please use the Help menu in conjunction with the other manuals.

How to View the Software User Guides for ZoomBrowser EX and ImageBrowser

- Adobe Acrobat Reader must be installed on your computer to read the *ZoomBrowser EX Software User Guide* (Windows) or *ImageBrowser Software User Guide* (Macintosh), which are PDF files. If it is not, please read the explanation for installation instructions at the bottom of next page.

The *ZoomBrowser EX Software User Guide* (Windows) and *ImageBrowser Software User Guide* (Macintosh) are contained as PDF files on the Canon Digital Camera Solution Disk, a CD-ROM.

Windows

1. Place the Canon Digital Camera Solution Disk in the CD-ROM drive.
   The installer panel will display.
2. In the installer panel, click [Using the Software] and [ZoomBrowser EX].
   The guide will display.

- If the installer panel does not display automatically, open the [Readme] and [English] folders on the CD-ROM and double-click the [ZOOMBROWSER EX GUIDE.PDF] file.

Macintosh

1. Place the Canon Digital Camera Solution Disk in the CD-ROM drive.
2. Double-click the CD-ROM icon followed by the [Canon Digital Camera Installer] icon.
   The installer panel will display.
3. In the installer panel, click [Using the Software] and [ImageBrowser].
   The guide will display.

- You can also display it by opening the [Readme] and [English] folders on the CD-ROM and double-clicking [IB_guide.pdf].

How to View the Card Photo Printer CP-10 Printer Driver User Guide

- Adobe Acrobat Reader must be installed to view the *Printer Driver User Guide* (Windows/Macintosh) for Card Photo Printer CP-10. If it is not installed on your computer, install it using the procedures at the bottom of the page.

The Card Photo Printer CP-10 Printer Driver User Guide (Windows/Macintosh) is contained on the Canon Digital Camera Solution Disk.

Windows

1. Place the Canon Digital Camera Solution Disk in your computer's CD-ROM drive.
   The installer panel will display.
2. In the installer panel, click [Using the Software] and [CP-10 Printer Driver].
   The Card Photo Printer CP-10 Printer Driver User Guide (Windows/Macintosh) will display.

- If the installer panel does not display automatically, open the [Readme] and [English] folders on the CD-ROM and double-click the [CP-10.pdf] file.

Macintosh

1. Place the Canon Digital Camera Solution Disk in the CD-ROM drive.
2. Double-click the [Canon Digital Camera Installer] icon in the CD-ROM window.
   The installer panel will display.
3. In the installer panel, click [Using the Software] and [CP-10 Printer Driver].
   The Card Photo Printer CP-10 Printer Driver User Guide (Windows/Macintosh) will display.

- You can also display it by opening the [Readme] and [English] folders on the CD-ROM and double-clicking the [CP-10.pdf] file.

How to Install Adobe Acrobat Reader

- **Windows**
  1. Place the Canon Digital Camera Solution Disk in the computer's CD-ROM drive.
  2. Open the [Readme], [English] and [Acrobat] folders.
  3. Double-click the [ar405eng.exe] file to start the installer.

  Follow the onscreen instructions to install Adobe Acrobat Reader.

- **Macintosh**
  1. Place the Canon Digital Camera Solution Disk in the computer's CD-ROM drive.
  2. Open the [Readme], [English] and [Acrobat] folders.
  3. Double-click the [Reader Installer] file to start the installer.

  Follow the onscreen instructions to install Adobe Acrobat Reader.

What Can Be Accomplished with the Software

This topic introduces the main features of the software programs contained on the CD-ROMs.

Canon Digital Camera Solution Disk

Some camera models do not support some of the software functions. Please check the Camera and Software Compatibility chart to confirm the compatibility of your camera. (p. 12)

• Downloading Camera Images to Your Computer

ZoomBrowser EX (Windows) / ImageBrowser (Macintosh)

You can start either of these programs* and display the camera images automatically simply by connecting the digital camera to the computer's USB port. Download the camera's still images or movies by selecting the thumbnails (tiny images) shown on the computer display.

* For Windows systems, the ZoomBrowser EX auto start function is only supported for Windows 98/Windows 2000/Windows XP. It is not supported for Windows Me.

TWAIN Driver (Windows)

This driver for Windows 98 and Windows 2000 loads camera images into TWAIN-compliant programs, such as ArcSoft PhotoImpression, ArcSoft VideoImpression and Adobe Photoshop LE.

WIA Driver (Windows)

This driver for Windows Me and Windows XP starts the Scanners and Cameras Wizard to automatically download camera images to the computer. It also allows you to copy camera images using standard file copying procedures in Windows Explorer (but it cannot upload computer files to the camera).

Plug-In Module (Macintosh)

This plug-in module loads camera images into plug-in compliant programs on the computer.

USB Mounter (Macintosh)

This utility allows you to treat the camera like a computer drive or read-only CF card reader, displaying the CF card contents on the computer and permitting files to be downloaded as if they were being copied from a card reader.

• Categorizing and Organizing Large Volumes of Images

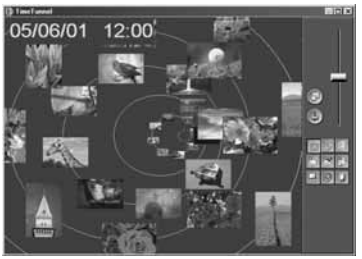
ZoomBrowser EX (Windows)/ImageBrowser (Macintosh)

These programs display downloaded images in lists and allow you to sort and organize them by content. They allow you to search and organize images as if they were spread out on your desktop.

• Searching and Organizing Images Chronologically

ZoomBrowser EX (Windows)/ImageBrowser (Macintosh)

These programs can display images in order according to the creation date. As the images display in a simulated time tunnel, you can zoom the tunnel forward and backward in time as if you were moving through time.



• Converting RAW Format Image Files

RAW Image Converter

This program can convert images shot in the camera's RAW file format into standard image formats, such as 8- or 16-bit TIFF files or Windows BMP files (Windows only).

* ZoomBrowser EX (Windows), ImageBrowser (Macintosh), TWAIN Driver (Windows 98/ Windows 2000 only) and Plug-In Module (Macintosh) can also convert RAW images.

• Creating Mail Attachments from Images

ZoomBrowser EX (Windows)/ImageBrowser (Macintosh)

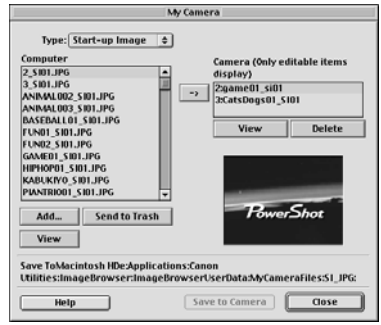
These programs can start your email program* and send images as file attachments to it. Since the file size and compression rate can be controlled, you can reduce large image files to sizes small enough for easy transmission.

* The automatic start of email programs is only supported by Windows and the email programs must be enabled as MAPI clients.

• Programs for Saving New Start-Up Images and Start-Up Sounds to the Camera

ZoomBrowser EX (Windows)/ImageBrowser (Macintosh)

These programs can add various camera settings such as start-up images, start-up sounds and shutter sounds - collectively called the My Camera Settings - that have been saved onto the computer.



• Laying Out and Printing Images

PhotoRecord (Windows)/ImageBrowser (Macintosh)

These programs permit you to add backgrounds and borders (Windows only), as well as titles and comments, and print out the images. You can enjoy preparing prints of your images appearing as if they were pasted into a photo album. Naturally, you can also use them to make artistic single-image layouts.

• Programs for Printing Indexes

PhotoRecord (Windows) / ImageBrowser (Macintosh)

These programs can output an index of the computer or camera's image thumbnails (tiny versions) to a printer.

• Programs for Printing with Card Photo Printer CP-10

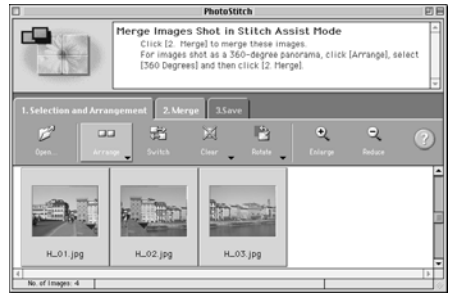
PhotoRecord (Windows) / ImageBrowser (Macintosh)

These programs can output your original photo cards with added text or design, or labels (8-label sheets) to Card Photo Printer CP-10 (sold separately) when connected to the computer by interface cable PIF-100 (sold separately).

• Merging Panoramic Images

PhotoStitch

This program takes images shot over several frames in the camera's Stitch Assist mode, automatically arranges them in order and stitches them together in one simple procedure. You can shoot and stitch 360° scenes together and save them in the QuickTime VR format to make them appear to surround you as you view them.



• Computer-Controlled Camera Shooting

RemoteCapture

This program allows your camera's shutter to be controlled by the computer when the two are connected. The recorded images are loaded directly into the computer.

Depending on your camera model, the screen may slightly differ.

ArcSoft Camera Suite CD-ROM*

• Editing and Applying Special Effects to Images

ArcSoft PhotoImpression

This program makes it easy to convert camera images to sepia colors, apply other special effects to images, edit them and create greeting cards and calendars.

• Programs for Editing Stills and Movies

ArcSoft VideoImpression

This program provides simple procedures for compiling a movie from multiple movies or stills and for editing out unwanted frames from movies.

Adobe Photoshop LE CD-ROM*

• Editing and Applying Special Effects to Images

Adobe Photoshop LE

This program allows you to edit and apply various special effects to images, such as changing color to sepia tones, as well as to print images. You can also prepare images as Web graphics.

* The model of camera you purchased will determine whether or not an image editing program was supplied with your product as well as the specific program included in the software bundle. Please refer to the System Map supplied with your camera for this information.

Camera and Software Compatibility

The Canon Digital Camera Solution Disk contains a number of software programs and drivers. Check the chart below for the compatibility of your particular camera model with each program's special functions.

Function	Software	Model							
		PowerShot Series							
		G2	S40/S30	A40/A30	A20/A10	S110 DIGITAL ELPH	S300 DIGITAL ELPH	DIGITAL IXUS 300	DIGITAL IXUS v
Downloading Camera Images	ZoomBrowser EX TWAIN Driver / ImageBrowser Plug-In Module(1)	●	●	●	●	●	●	●	●
Downloading Movies	ZoomBrowser EX / ImageBrowser	●	●	●	–	●	●	●	●
Using the Camera as a Read-Only Card Reader	USB Mounter (Macintosh only)	●	●	●	●	●	●	●	●
RAW Image Conversion	ZoomBrowser EX TWAIN Driver / ImageBrowser Plug-In Module(1)	●	●	–	–	–	–	–	–
Merging Images Shot in Stitch Assist Mode	PhotoStitch	●(2)	●	●(2)	●(2)	●	●	●	●
Shooting from the Computer	RemoteCapture	●(3)	●(3)	●(3)	●	●	●	●	●
Add start-up images or sounds to camera (My Camera Settings)	ZoomBrowser EX / ImageBrowser	–	●	–	–	–	–	–	–

(1) Since ArcSoft PhotoImpression and ArcSoft VideoImpression are not plug-in compatible, the Plug-in Module cannot be started and used to download images.

(2) Images shot with the Wide Converter, Tele-converter or Close-up lens do not merge well in PhotoStitch.

(3) The camera's shutter button can also be used to shoot.

System Requirements

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

Windows

Computer Model	IBM PC/AT compatible
OS	Windows 98 (First or Second Edition) Windows Millennium Edition (Windows Me) Windows 2000 Windows XP
CPU	Windows 98/Me/2000: Pentium 150 MHz or better Windows XP: Pentium 300 MHz or better
RAM	Windows 98: 32 MB or more 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: 120 MB or more (Including the PhotoRecord printing program) - PhotoStitch: 40 MB or more - RemoteCapture: 20 MB or more - RAW Image Converter: 10 MB or more • Canon Camera TWAIN Driver: 25 MB or more • Canon Camera WIA Driver: 25 MB or more • Canon CP-10 Printer Driver: 1 MB or more (space required for installation) • Adobe Photoshop LE: 40 MB or more • ArcSoft PhotoImpression: 125 MB or more • ArcSoft VideoImpression: 30 MB or more
Display	800 x 600 pixels/256 colors (8 bit) or better 1,024 x 768 pixels/High Color (16 bit) or better is recommended (800 x 600 pixels/High Color (16 bit) or better is required to use ArcSoft PhotoImpression or ArcSoft VideoImpression.)

- A CD-ROM drive is required to install the software.
- QuickTime 3.0 or a higher version is required to play the camera's movies or save images merged with PhotoStitch in the QuickTime VR format. QuickTime 5.0 is included on the Canon Digital Camera Solution Disk.
- A sound card is required to play movie audio tracks.

Macintosh

Computer Model	Power Macintosh, PowerBook, iMac, iBook
OS	Mac OS 8.6-9.2
CPU	PowerPC
RAM	20 MB or more of application memory
Interface	USB: only systems equipped with genuine Apple-brand built-in USB interfaces
Free Hard Disk Space	• Canon Utilities - ImageBrowser: 20 MB or more - PhotoStitch: 30 MB or more - RemoteCapture: 15 MB or more - RAW Image Converter: 10 MB or more • USB Mounter: 5 MB or more • Canon Camera Plug-In Module: 15 MB or more • Canon CP-10 Printer Driver: 3.8 MB or more (space required for installation) • Adobe Photoshop LE: 40 MB or more • ArcSoft PhotoImpression: 120 MB or more • ArcSoft VideoImpression: 30 MB or more
Display	800 x 600 pixels/256 colors or better 1,024 x 768 pixels/32,000 colors or better is recommended (800 x 600 pixels/32,000 colors or better is required to use ArcSoft PhotoImpression or ArcSoft VideoImpression.)

- A CD-ROM drive is required to install the software.
- QuickTime 5.0 is included on the Canon Digital Camera Solution Disk.
- USB Mounter is compatible with Mac OS 9.0 or higher.

Connecting the Camera to a Computer

Selecting a Downloading Method

The downloading method you choose will depend upon the operating system (OS) on your computer. Read the appropriate page referenced below after checking your computer system.

Downloading Method	Page Reference
Downloading from the camera via the USB interface	P. 16
Downloading from a card reader	P. 18

Windows Users

- Do not connect the camera to a Windows computer at this point. The USB Driver must be installed before the camera is connected to the computer via the USB interface. The USB Driver can be installed very easily, so please wait until the driver is installed before connecting the camera.

- You should use a household power source to power the camera when it is connected to the computer.

Connecting to a USB Port

Connection Precautions

- Connect the camera directly to a USB port on the computer; not through a hub. The connection may not operate correctly through a 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 camera.
- Do not connect two or more cameras 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 camera is connected via the USB interface. If it does happen, never disconnect the USB cable. Try to awaken the computer with the camera in the connected state. Some computers will not awaken properly if you disconnect the camera while they are in standby mode. Please refer to your computer manual for instructions regarding its standby mode.

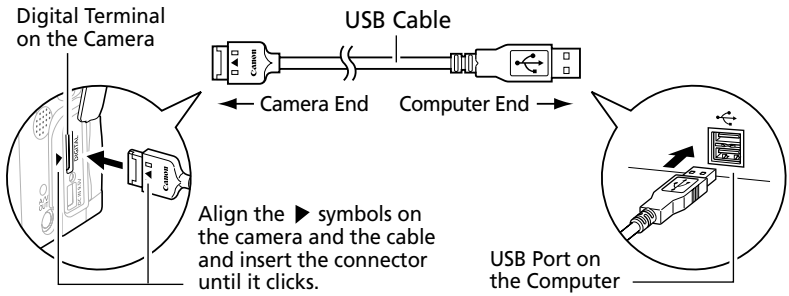
1. Install the software (first-time connection only)

- Windows users see p. 22.
- Macintosh users see p. 74.

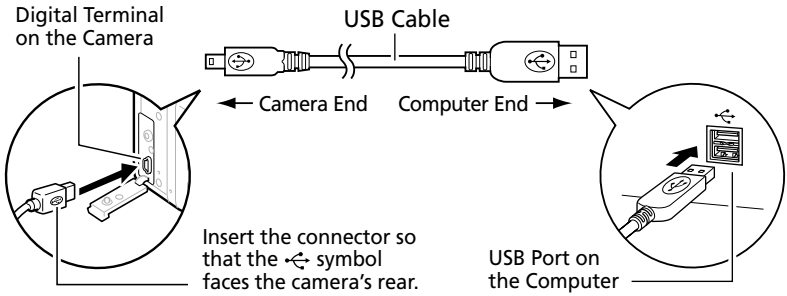
2. Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminal.

- You do not need to turn off the computer for this procedure.
- Refer to your computer manual for the location of the computer's USB ports.

PowerShot G2



PowerShot S40/S30



Other Cameras

Please refer to the *Camera User Guide* bundled with your camera.

3. **Prepare the camera for communication with the computer.**

Turn the camera's mode dial, main dial or mode switch to ▶ .

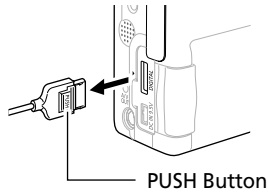
PowerShot S40/S30

As soon as the camera is attached, it will automatically power up and begin connecting. To shoot with RemoteCapture, ensure that you open the camera's lens cover.

With Windows, the driver software will install the first time (only) you connect via the USB interface.

Precautions for Detaching the Cable

- Always hold down the Push button on the cable or hold the connector by its sides when you detach it from the camera's Digital Terminal.

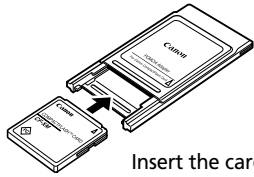


Example: PowerShot G2

Connecting to a CF Card Reader or PC Card Reader

If you have a CF card reader, you can download images directly to a computer by placing the camera's CF card in a reader connected to the computer. If your computer has a PC card slot or a PC card reader connected, remove the CF card from the camera and insert it into a PC card adapter (PCMCIA adapter) before placing it into the card slot on the computer or reader.

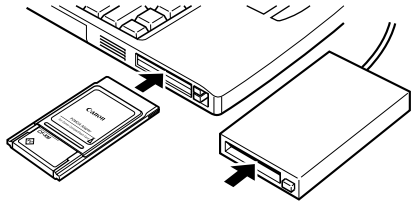
1. Remove the CF card from the camera and, if required, insert it into a PC card adapter.



Insert the card into the adapter

2. Place the card in the CF card reader or the loaded adapter into the card slot on the computer or PC card reader.

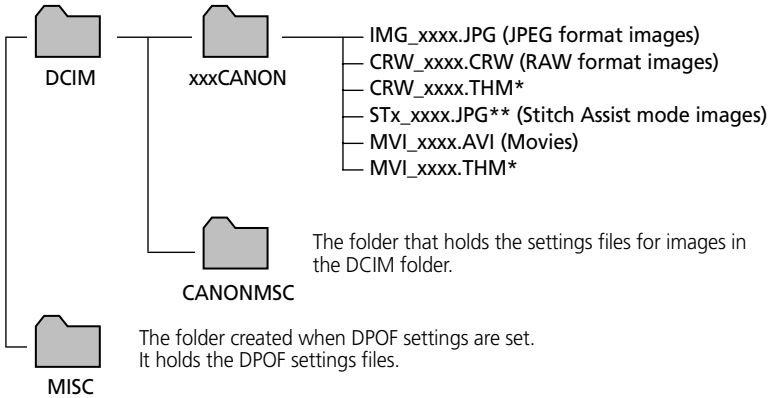
- Since the requirement for the power to be on or off varies widely between computers and card readers, please refer to your computer or card reader manual before attempting this step.



Insert the card or loaded adapter

CF Card Folder Structure and File Names

The images on a CF card are placed in subfolders named [xxxCANON], where the "xxx" represents a number from 100 to 998, within the [DCIM] folder.



* Files with the THM extension are the thumbnail image files for the camera's index replay mode.

** Each successive file shot in Stitch Assist mode is assigned a letter starting from "A," which is inserted as the third digit in the name. I.E. [STA_0001.JPG], [STB_0002.JPG], [STC_0003.JPG] ...

- The "xxxx" in file names represent four-digit numbers.
- All folders except the "xxxCANON" folders contain image settings files. Do not open or delete them.

Using the Software on the Windows Platform

Installing/Uninstalling the Software 22
Installing from the Canon Digital Camera Solution Disk 22
Installing ArcSoft Camera Suite 23
Installing Adobe Photoshop LE 23
Installing the Card Photo Printer CP-10 Printer Driver 23
Uninstalling the Software/Driver 24
Installing the TWAIN Driver/WIA Driver 25
Setting an Event to Start Automatically (Windows XP only) .. 29
Troubleshooting the TWAIN Driver/WIA Driver Installation ... 31
Uninstalling the TWAIN Driver/WIA Driver 32
Troubleshooting the TWAIN Driver/WIA Driver Uninstall 33
Downloading Images to a Computer 37
Starting ZoomBrowser EX 37
The ZoomBrowser EX Camera Window 41
Downloading and Saving Images from the Camera 42
Printing Images 43
ZoomBrowser EX Features 46
Using the ZoomBrowser EX Buttons 46
Converting RAW Format Images 48
Replaying Movies 52
Merging Panoramic Images with PhotoStitch 53
Shooting with RemoteCapture 54
Loading Images into TWAIN-Compliant Programs 59
Loading Images into PhotoImpression 59
Loading Images into Photoshop LE 61
Downloading Images with the WIA Driver 65
Downloading with the Scanners and Cameras Wizard 65
Downloading with Windows Explorer 66
Downloading with the File Dialog 67
Saving the My Camera Settings to the Camera 68
Displaying the My Camera Window 68
Saving the Data to the Camera 69
Adding New Data to the My Camera Window 71

Installing/Uninstalling the Software

Installing from the Canon Digital Camera Solution Disk

Installation Precautions

- Before you attach the camera to the computer with the USB cable for the first time, you must install the appropriate driver software from the Canon Digital Camera Solution Disk listed below onto the computer.

  Windows 98/Windows 2000: TWAIN Driver
  Windows Me/Windows XP: WIA Driver
- If you are using Windows Me or Windows XP, there are several limitations to the use of the WIA Driver. Before you install it, please read "WIA Driver Installation Precautions" (p. 25).

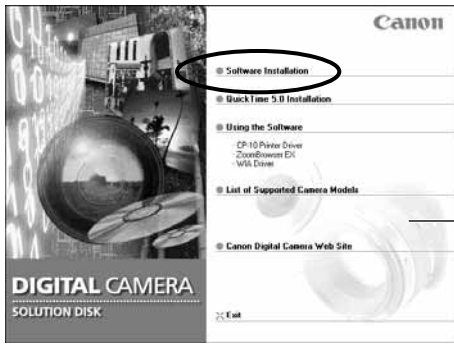
- Users of Windows 2000 and Windows XP Professional must first log in as an Administrator (computer system administrator) to install programs.

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

2. **Set the Canon Digital Camera Solution Disk in the computer's CD-ROM drive.**

- The installer panel will display automatically.
- If the installer panel does not appear automatically, use the following procedures to display it.
  1. Double-click the [My Computer] icon on the desktop to open it and double-click the CD-ROM icon.
  2. Double-click the [Setup] icon.

3. **Click [Software Installation].**



Installer Panel

4. **Follow the onscreen instructions to proceed with the installation.**

5. **When the Installer Panel displays again, after the installation is complete, click [Exit].**

- Remove the Canon Digital Camera Solution Disk once the installation is complete so that the proper driver may be installed.
- Continue with the procedures on page 25 to install the driver software to allow the camera to be connected to a computer via the USB interface and download images.

Installing ArcSoft Camera Suite*

To install ArcSoft PhotoImpression or VideoImpression, place the ArcSoft Camera Suite CD-ROM into the drive and double-click the [My Computer] icon on the desktop followed by the [ArcSoft] folder and [Setup.exe] icon. Follow the on-screen instructions to install ArcSoft PhotoImpression/VideoImpression.

Installing Adobe Photoshop LE*

To install Adobe Photoshop LE, place the Adobe Photoshop LE CD-ROM in the drive and double-click the [My Computer], [Photosle], [English], and [Photosle] folders, followed by the [Setup.exe] file. Follow the on-screen instructions to continue with the installation.

- A product serial number is required to install Adobe Photoshop LE. You may use either [SDM501B4164785-650] or the number listed on the CD-ROM case if there is one.

* The model of camera you purchased will determine whether or not an image editing program was supplied with your product as well as the specific program included in the software bundle. Please refer to the System Map supplied with your camera for this information.

Installing the Card Photo Printer CP-10 Printer Driver

The driver for Card Photo Printer CP-10 (sold separately) must be installed to print from a CP-10 connected to the computer.* For installation instructions, please see the *Card Photo Printer CP-10 Printer User Guide* contained on the Canon Digital Camera Solution Disk as a PDF file (p. 5).

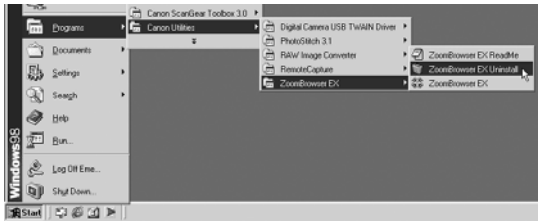
* Interface Cable PIF-100 (sold separately) is required to connect the Card Photo Printer CP-10 to a computer.

Uninstalling the Software / Driver

Uninstalling the Software

The following explanation uses the procedures for removing ZoomBrowser EX as an example for removing other programs as well.

1. **Click the Windows [Start] menu and select [Programs], [Canon Utilities], [ZoomBrowser EX] and [ZoomBrowser EX Uninstall].**



The uninstall utility will start and remove ZoomBrowser EX.

- If you have uninstalled ZoomBrowser EX because of a corrupt database file or other problem, please also delete the Database folder, which can be found within the [C:\Program Files\Canon\ZoomBrowser EX] folder.
- PhotoRecord, PhotoStitch, RemoteCapture and other programs can be removed with the same procedures.
- You can uninstall ArcSoft PhotoImpression or ArcSoft VideoImpression by clicking the [Start] menu and selecting [Programs], [ArcSoft Camera Suite] and [Uninstall].
- You can uninstall Adobe Photoshop LE by clicking the [Start] menu and selecting [Programs], [Adobe], [Adobe Photoshop 5.0 Limited Edition] and [Uninstall Photoshop 5.0 Limited Edition].
- Please see page 32 for instructions for uninstalling the TWAIN Driver or WIA Driver.

Uninstalling (Deleting) the Card Photo Printer CP-10 Printer Driver

For instructions to delete the printer driver, please see the *Card Photo Printer CP-10 Printer User Guide* contained on the Canon Digital Camera Solution Disk as a PDF file.

Installing the TWAIN Driver / WIA Driver

- Be very careful to follow the steps below in order to install the driver software.

1. Install one of the following drivers from the Canon Digital Camera Solution Disk (p. 22).
   Windows 98 / Windows 2000: TWAIN Driver
   Windows Me / WIndows XP: WIA Driver
   - Copy the required files to your computer.
2. Connect the camera to the computer with the USB cable.
   - Complete the steps required to install the driver and then close the installer.

- The installation procedures may vary between Windows versions (pp. 26-28).

WIA Driver Installation Precautions

- You can install the WIA Driver if you are using Windows Me or Windows XP. In addition, you should read the "WIA Driver Limitations" below before installing the driver.

WIA Driver Limitations

- When you have set the WIA Driver to start a particular application program when you connect the camera, 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. Your camera model name will appear in place of the "camera model" in the brackets above.
- Windows Me users cannot use ZoomBrowser EX's auto start function when the WIA Driver is installed.

- TWAIN Driver is the driver software for USB connections to Windows 98 and Windows 2000 only. It is the software required to load images into TWAIN-compliant application programs, such as ArcSoft PhotoImpression/VideoImpression and Adobe Photoshop LE. Since it is not a stand-alone program, you must always use it by starting it from within a TWAIN-compliant program.
- WIA Driver is the driver software for USB connections to Windows Me and Windows XP only. When you connect the camera to the computer with a USB cable, the Scanners and Cameras Wizard will open automatically to assist with downloading. This driver also allows you to use Windows Explorer to display the camera's thumbnail images on the computer and download images with standard file copying procedures.

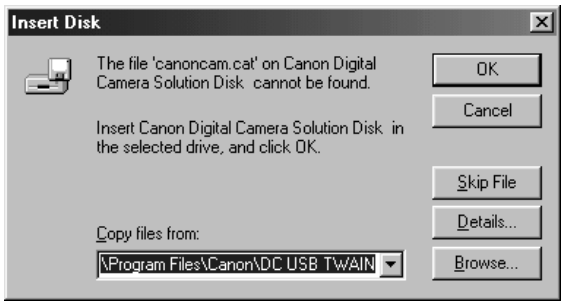
Windows 98

1. **Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminal. Prepare the camera for communication with the computer.**

For USB interface connection instructions, see "Connecting to a USB Port" (p. 16).

2. **After a moment, the following dialog will display.**

3. **Click the [Browse] button.**

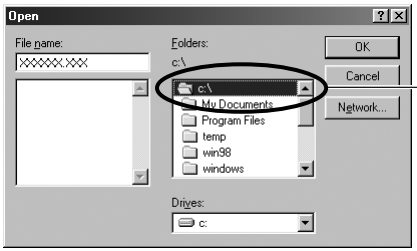


The Open dialog will display.

4. **Click the [Browse] button and select the appropriate folder for your camera model listed below, on the drive where the software has been installed.**

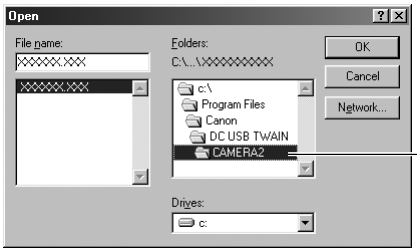
PowerShot S110/S300 DIGITAL ELPH or DIGITAL IXUS 300/ DIGITAL IXUS v PowerShot A20/A10	[ProgramFiles\Canon\DC USB TWAIN\CAMERA2]
PowerShot G2 PowerShot S40/S30	[ProgramFiles\Canon\DC USB TWAIN\CAMERA3]
PowerShot A30	[ProgramFiles\Canon\PowerShot A30 TWAIN]
PowerShot A40	[ProgramFiles\Canon\PowerShot A40 TWAIN]

Double-click the drive (usually the [C:\] drive) on which you installed the software to display all of its folders. Select the appropriate folder according to the list on the prior page.



Double-click the [C:\] drive.

If, for example, you have a PowerShot S110/S300 DIGITAL ELPH or DIGITAL IXUS 300/DIGITAL IXUS v, you would double-click the [Program Files] folder, followed by the [Canon], [DC USB TWAIN] and [CAMERA2] folders.



Double-click the [Program Files], [Canon], [DC USB TWAIN] and [CAMERA2] folders in succession.

5. **Click the [OK] button once you have selected the last folder.**

The window in Step 3 will reappear.

6. **Click the [OK] button.**

The TWAIN Driver will install itself automatically.

Window 2000/Window Me

- Users of Windows 2000 must first log in as an Administrator to install programs.

1. Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminal. Prepare the camera for communication with the computer.

- For USB interface connection instructions, see "Connecting to a USB Port" (p. 16).
- The Add New Hardware Wizard will appear after a moment and automatically install the TWAIN Driver or WIA Driver.
- If you are prompted to restart the computer, restart the computer according to the onscreen messages.

If you installed the WIA Driver, the Scanners and Cameras Wizard will start (p. 65).

Windows XP

- Users of Windows XP Professional must first log in as an Administrator (computer system administrator) to install programs.

1. Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminal. Prepare the camera for communication with the computer.

- For USB interface connection instructions, see "Connecting to a USB port" (p. 16).
- The Found New Hardware Wizard will appear after a moment and automatically install the WIA Driver.

Once the installation is complete, the ZoomBrowser start-up event dialog and the Scanners and Cameras Wizard start-up event dialog will both display. Click [OK] in the event dialog of the application you wish to start (ZoomBrowser EX or Scanners and Cameras Wizard). The event will start.

When you use Windows XP, please set your computer to automatically start an event when the camera is connected to the computer. Be sure to set the computer to start either ZoomBrowser EX or the Scanners and Cameras Wizard (p. 29). If neither of these is selected the computer will not operate properly.

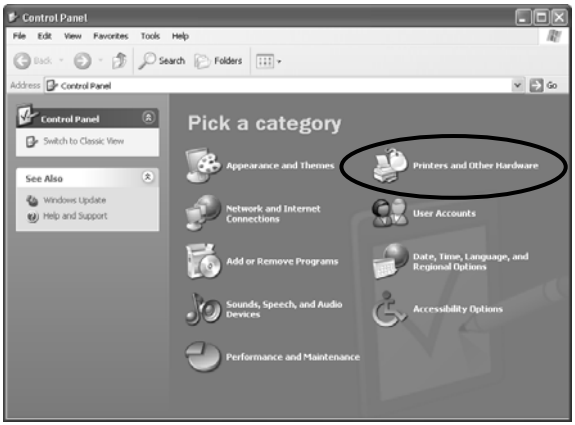
Setting an Event to Start Automatically (Windows XP only)

You can set your computer to automatically start an event when the camera is connected to the computer via the USB cable. Please set the computer to start either ZoomBrowser EX or the Scanners and Cameras Wizard. If neither of these is selected the computer will not operate properly.

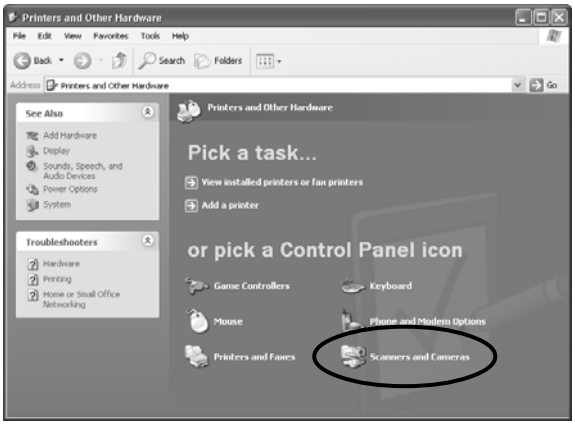
1. **Connect the camera to the computer.**

If the Event Dialog appears, click [Cancel] to close it.

2. **From the [start] menu, click [Control Panel] and click the [Printers and Other Hardware] icon.**

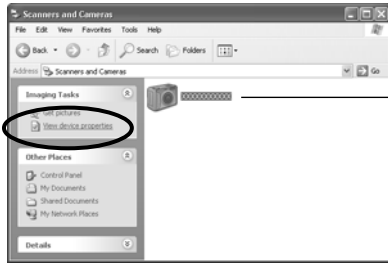


3. **Click the [Scanners and Cameras] icon.**



Windows

4. **Select the camera icon and click the [View device properties] icon in [Imaging Tasks].**



The name of your camera will be displayed.

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

When you want to start ZoomBrowser EX automatically

1. Set [Select an event] to [Default]. Set the [Actions] section to [Take no action].
2. Now repeat the above, however this time set [Select an event] to [(camera name) Connected], and in the [Actions] section, set [Start this program] to [Canon ZoomBrowser EX].

When you want to start the Scanners and Cameras Wizard automatically

1. Set [Select an event] to [Default]. In the [Actions] section, set [Start this program] to [Microsoft Scanners and Cameras Wizard].
2. Now repeat the above, however this time set the [Select an event] to [(camera name) Connected], and set the [Actions] section to [Take no action].

6. **Click [OK].**

Next time, either ZoomBrowser EX or the Scanners and Cameras Wizard will start automatically.

Troubleshooting the TWAIN Driver/WIA Driver Installation

First, Check the Following

1. Does your computer comply with these requirements?
   Does the system have a built-in USB port and did it come with Windows 98 (First or Second Edition), Windows Me, Windows 2000, or Windows XP preinstalled? (The USB interface is not supported for systems not complying with the above conditions.)
2. Is the camera correctly connected to the computer?
   Please see "Connecting the Camera to a Computer" (p. 15).
3. Is the battery charge sufficient?
   You should use a household power source to power the camera when it is connected to a computer.

• If the Problem Lies in the Above

The Add New Hardware Wizard (in Windows 2000, the New Hardware Found Wizard) may display. If that happens, click [Cancel] to close it. Then disconnect the camera from the computer before reinstalling the WIA Driver according to the procedures in "Installing the TWAIN Driver/WIA Driver" (p. 25).

• If the Problem Is Not Mentioned Above

If the USB Driver is not correctly installed, it is possible that Windows is not recognizing the USB Driver. Uninstall the USB Driver according to the instructions on page 32 before reinstalling it according to the instructions in "Installing the TWAIN Driver/WIA Driver" on page 25.

Uninstalling the TWAIN Driver/ WIA Driver

You can uninstall the TWAIN Driver (Windows 98/Windows 2000) or the WIA Driver (Windows Me/Windows XP) with the following procedures.

1. **Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminal. Prepare the camera for communication with the computer.**

- For USB interface connection instructions, see "Connecting to a USB Port" (p. 16).
- With Windows 98 and Windows 2000, the event dialog will appear, allowing you to select an application program to start. With Windows Me, the Scanners and Cameras Wizard will appear. With Windows XP, ZoomBrowser EX will start or the Scanners and Cameras Wizard will appear.

2. **Click the [Cancel] button.**

- If ZoomBrowser is started, close it.

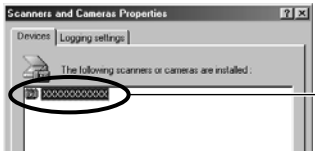
3. **Click the Windows [Start] menu and select [Settings] and [Control Panel].**

- If you are using Windows XP, from the [start] menu, click [Control Panel] and click the [Printers and Other Hardware] icon.

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

- If you cannot find the [Scanners and Cameras] icon or folder, use the procedures on the next page to uninstall the driver.

5. **Delete the camera model name from the [Scanners and Cameras**



Your camera model name will appear here. If it does not display here, use the procedures on the next page to uninstall the driver.
If a scanner driver has also been installed, its name will also appear in the list.

Properties] list in Windows 98 or Windows 2000, or the camera icon from the [Scanners and Cameras] folder in Windows Me or Windows XP.

- Windows 98 or Windows 2000: Select the name of your camera model and click the [Remove] button.
- Windows Me or Windows XP: Select the icon of your camera model, right-click the mouse button and select [Delete].

6. **TWAIN Driver: Click the [Start] menu and select [Programs], [Canon Utilities], [Digital Camera TWAIN Driver] and [TWAIN Driver Uninstall].**
WIA Driver : Click the [Start] menu and select [Programs] or [All Programs], [Canon Utilities], [Digital Camera WIA Driver], and [WIA Driver Uninstall].

- If you have a PowerShot A40(A30), click the [Start] menu and select [Programs] or [All Programs], followed by [Canon Utilities], [PowerShot A40(A30) TWAIN Driver] or [PowerShot A40(A30) WIA Driver], and [Uninstall TWAIN Driver] or [Uninstall WIA Driver].
- The uninstall process will start.

Troubleshooting the TWAIN Driver / WIA Driver Uninstall

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

Use the procedures below for the following circumstances too.

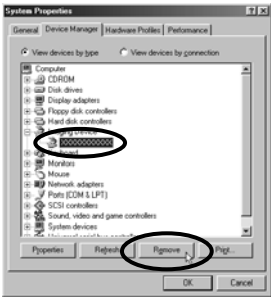
- If you do not find the [Scanners and Cameras] icon or folder in the [Control Panel] or [Printers and Other Hardware].
- If your camera model name does not appear in the [Scanners and Cameras Properties] dialog or the camera icon does not appear in the [Scanners and Cameras] folder.
- If you installed the USB Driver by connecting the camera to the computer via the USB interface before you installed the other software on the CD-ROMs.

Windows 98/Windows Me

1. Open the [System Properties] dialog and check the [Device Manager] tab.

1. In the [Control Panel], double-click the [System] icon.
2. Click the [Device Manager] tab.

2. If your camera model name appears under the [Other devices] and / or [Imaging Devices] categories, use the following procedures to delete it.



1. Select the name of your camera model and click [Remove].
2. In the confirmation dialog, click [OK].
3. Click [OK] to close the [System Properties] dialog.

- Remove all copies of your camera model name that appear in the [Other devices] or [Imaging Device] categories, or that appear more than once in one category.

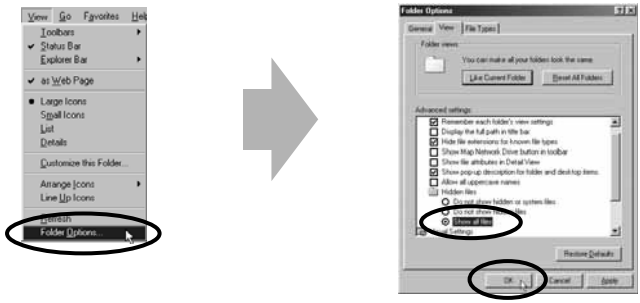
3. Double-click the [My Computer] icon on the desktop followed by the [C:] drive and the [Windows] and [Inf] folders.

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

Use the following procedures to show all files and folders.

1. For Windows 98, click the [View] menu and select [Folder Options]. For Windows Me, click the [Tool] menu and select [Folder Options].
2. Click the [View] tab.
3. For Windows 98, set the [Hide files] section to [Show all files]. For Windows Me, set the [Hidden files and folders] section to [Show hidden files and folders].
4. Click [OK] to close the dialog.

This will make the hidden files and folders visible.



* This example shows Windows 98 screen shots.

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

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

6. **Find and delete the [Canon.IncCanon DC], [Canon.IncCanon DC1], [Canon.IncCanon DC2], [Canon.IncCanon DC3], [Canon.IncCAP_A30] or [Canon.IncCAP_A40] files.**

- If none of the above files are contained in the Other folder, you do not need to delete anything. If all appear, delete all.

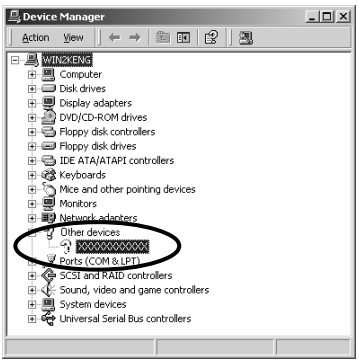
Windows 2000/Windows XP

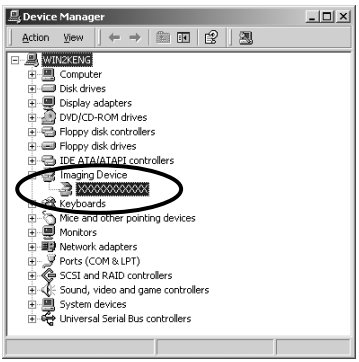
- Users of Windows 2000 or Windows XP Professional must first log in as an Administrator (computer system administrator) to uninstall the driver.

1. Open the [System Properties] dialog and check the [Device Manager].

1. For Windows 2000, in the [Control Panel], double-click the [System] icon.
   For Windows XP, in the [Control Panel], click [Performance and Maintenance] and click [System].
2. Click the [Hardware] tab and the [Device Manager...] button.

2. If your camera model name appears under the [Other devices] or [Imaging Device] category, use the following procedures to delete it.





1. Select the name of your camera 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 your camera model name that appear in the [Other devices] or [Imaging Device] categories, or that appear more than once in one category.

3. Windows 2000: Double-click the [My Computer] icon on the desktop, followed by the [C:] drive, and the [Winnt] and [Inf] folders.

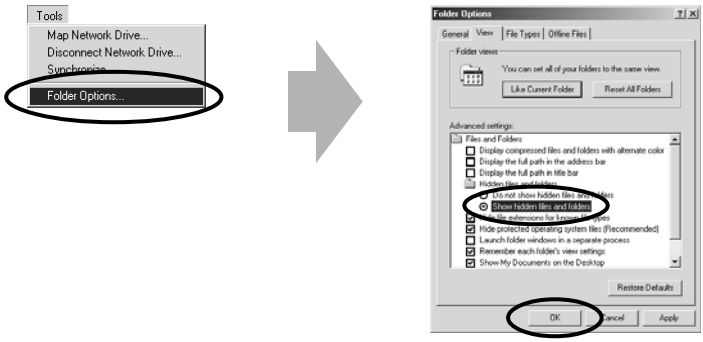
Windows XP: From the [start] menu, click [My Computer], [C:], [Windows] folder, and [Inf] folder in succession.

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

Use the following procedures to show all files and folders.

1. Open the [Winnt] or [Windows] folder.
2. Click the [Tools] menu and select [Folder Options...].
3. Click the [View] tab.
4. In the [Advanced settings] 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.
5. Click [OK] to close the dialog.

This will make the hidden files and folders visible.



4. 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 (i.e. Oem0 and Oem0.pnf). Please note that there may be many file sets starting with "Oem" so take care to get the correct set.

5. Confirm that it is the correct [Oem*] file set for Canon digital cameras.

- 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 Digital Camera USB Setup File ***" in its first line. When you find the correct file, note down its name and close the Notepad window.

6. Delete the [Oem*] file set.

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

- **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.**

Downloading Images to a Computer

This topic briefly explains how to use ZoomBrowser EX to perform a range of operations from downloading the camera's images to printing them.

- For a more detailed explanation of ZoomBrowser EX operations, please see the *ZoomBrowser EX Help* menu or PDF manual, *ZoomBrowser EX Software User Guide* (p. 4).

If the Continue Connection Confirmation Message Displays

- When a connection between the camera and computer is open and idle for a set period of time (usually about 5 minutes), a message asking whether you wish to remain connected may appear (some models may not display this). If the connection remains idle, the camera will disconnect after approximately 1 minute. The message will not appear and the camera will not disconnect if the camera (excluding the PowerShot A40/A30/A20/A10 models) is powered from a household power source or if the [Auto Power Down] (Power Save) function is turned off (only PowerShot A40/A30).

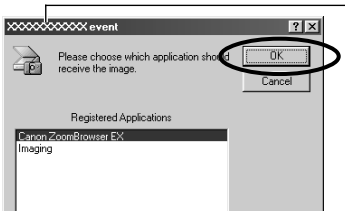
Press the camera's shutter button or main switch to reconnect. Please see the *Camera User Guide* for more information.

Starting ZoomBrowser EX

USB Port Connection (Windows 98/Windows 2000/Windows XP)

1. Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminal. Prepare the camera for communication with the computer.

- For USB interface connection instructions, see "Connecting to a USB Port" (p. 16).
- After a moment, the Event dialog will display and allow you to select an application program to start.



Your camera model name will appear here.

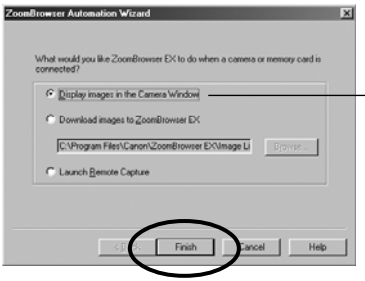
Windows XP

ZoomBrowser EX will start immediately when it has been set to auto start in the "Setting an Event to Start Automatically (Windows XP only)" section (p. 29). Skip to step 3. If the Scanners and Cameras Wizard has been set to auto start, the [Scanners and Cameras Wizard] dialog will display. Click [Cancel] to close the dialog window. Follow steps 2 and 3 of the "USB Port Connection (Windows Me)" section (p. 39).

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

- ZoomBrowser EX will start and open the ZoomBrowser EX Automation Wizard dialog.

3. **Confirm that [Display images in the Camera Window] is selected and click the [Finish] button.**



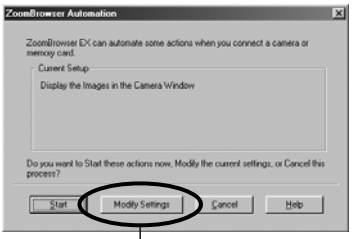
Confirm that this option is selected.

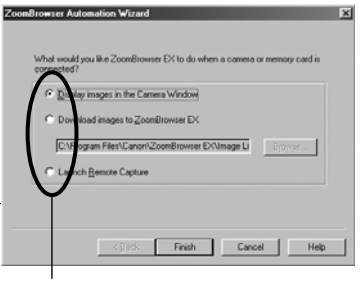
The Camera Window will open and display the camera images as thumbnails (tiny versions) (p. 41).

- In the ZoomBrowser EX Automation Wizard dialog, you can select the action that is carried out after ZoomBrowser EX starts. For more details, see the PDF manual, *ZoomBrowser EX Software User Guide* (p. 4).

What to Do the Next Time ZoomBrowser EX is Started

- A dialog with the previously selected automated settings will display the next time you start ZoomBrowser EX. To use these settings unchanged, click the [Start] button. To do nothing, click [Cancel]. To change the settings, click [Modify Settings].





To change the settings, click [Modify Settings] and select the desired action in the ZoomBrowser EX Automation Wizard dialog.

- For more detailed instructions for changing settings, please see the PDF manual, *ZoomBrowser EX Software User Guide* (p. 4).

How to Have ZoomBrowser EX Start Automatically (Windows 98/Windows 2000)

Use the following procedures to have ZoomBrowser EX start automatically without showing the Event dialog.

1. With the camera connected to the computer via the USB interface, double-click the [My Computer] icon on the desktop, followed by the [Control Panel] folder and [Scanners and Cameras] icon or folder.
2. Select the name of your camera model.
3. Click the [Properties] button and the [Events] tab. A list of application programs that can be automatically started will display.
4. Remove the check mark from all programs except ZoomBrowser EX and click [OK].

You have now set ZoomBrowser EX to start automatically the next time the camera is connected.
If you wish to shut off the auto start, place a check mark in the [Disable device events] or [Do nothing] options.

USB Port Connection (Windows Me)

1. Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminal. Prepare the camera for communication with the computer.

- For USB interface connection instructions, see "Connecting to a USB Port" (p. 16).
- The Scanners and Cameras Wizard will automatically open. Click the [Cancel] button to close the Wizard.

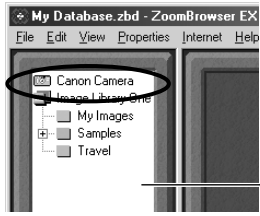
2. Start ZoomBrowser EX.

- Double-click the [Canon ZoomBrowser EX] icon on the desktop. The first time ZoomBrowser EX starts, a confirmation message will appear asking whether you wish to register the [My Pictures] folder in ZoomBrowser EX. Click [Yes] if you plan to use the My Pictures folder.

Canon ZoomBrowser EX Icon

3. **Click [Canon Camera] in the Tree View area.**

- Thumbnail versions of the camera images will display in the Camera window (p. 41).

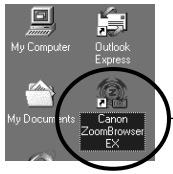


CF Card Reader/PC Card Reader Connection

1. **Insert the CF card or loaded PC card adapter into the reader.**

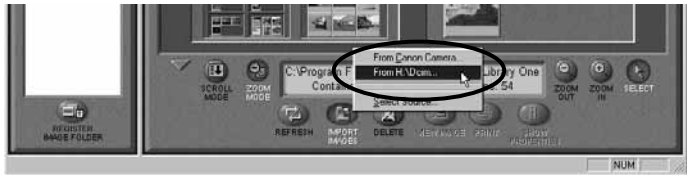
2. **Start ZoomBrowser EX.**

- Double-click the [Canon ZoomBrowser EX] icon on the desktop.
- If you are using Windows Me, a confirmation message will appear the first time ZoomBrowser EX starts, asking whether you wish to register the [My Pictures] folder in ZoomBrowser EX. Click [Yes] if you plan to use the [My Pictures] folder.



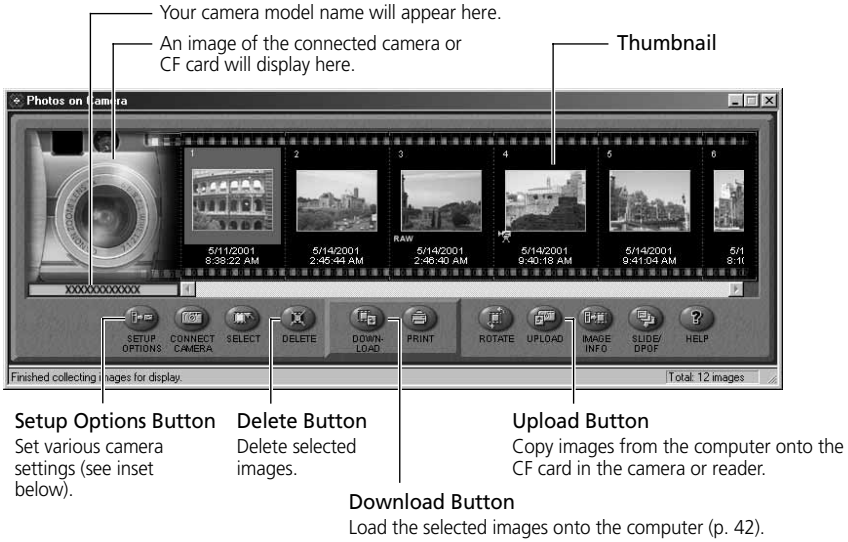
3. **Click the [Import Images] button and select [From Dcim].**

- Thumbnail versions of the camera images will display in the Camera window (p. 41).



The ZoomBrowser EX Camera Window

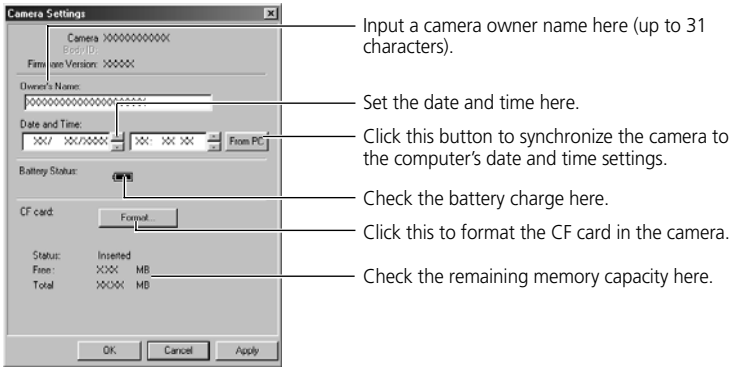
When a connection is opened to a CF card in a camera or a reader, the card's images display as thumbnails in the Camera window.



How to Check and Change Various Camera Settings

You can adjust the date, time and owner settings in the Camera Settings dialog using the computer when the camera is connected. You can also check the battery charge and remaining memory capacity.

1. In ZoomBrowser EX, click the [Setup Options] button and select [Camera Settings] from the menu that displays. In the TWAIN Driver (p. 62), click the [Camera Settings] button to open the Camera Settings dialog.
2. Check or change the settings.

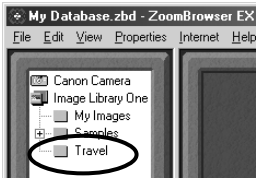


Downloading and Saving Images from the Camera

1. Create a new folder for saving images from the camera.

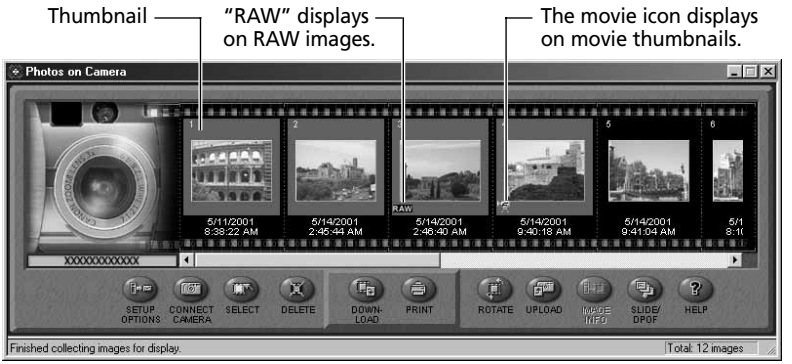
- In the Tree View area, right-click the [Image Library One] folder, select [New Folder] from the pop-up menu and input a folder name.

2. Select the new folder in the Tree View area.



3. Select the images you wish to download from the Camera window and click the [Download] button.

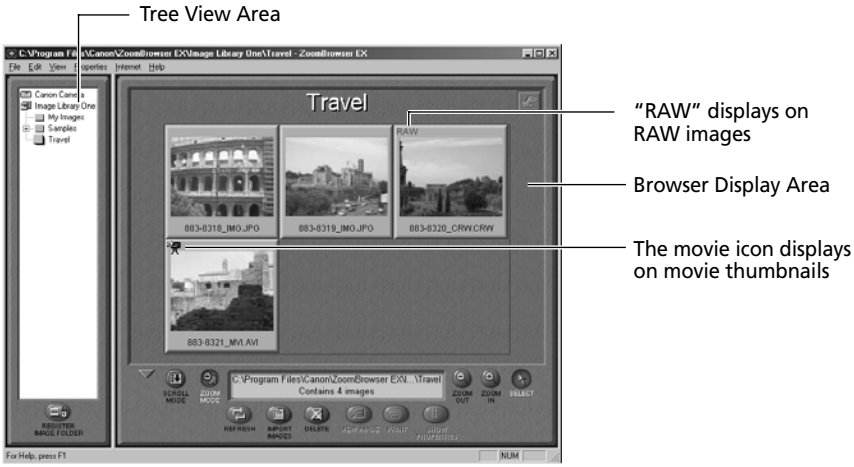
- Click on thumbnails to select them.



Downloaded images are saved to the computer disk and appear in the Browser Display Area.

- The folder you created above normally appears within the [C:\Program Files\Canon\ZoomBrowser EX\Image Library One] folder. The downloaded image files are saved to the folder you created.

- You can also download images by dragging them from the Camera window and dropping them on the Browser Display Area or Tree View area.



To disconnect the camera, click the close box ☒ at the right of the Camera window to close it.

Printing Images

1. Select the image(s) you wish to print.

- Movie images cannot be printed.

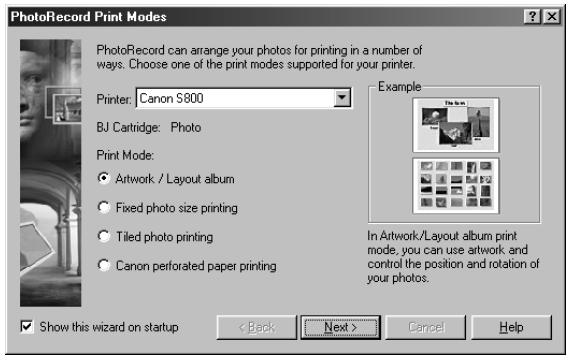
2. Click the [Print] button and select [Layout] from the displayed menu.

- The PhotoRecord printing utility will start and automatically display the selected image(s) in a page layout.

Windows

3. Select a print mode and click [Next].

For the purposes of this example, please select [Artwork/Layout album].



When you select the "Artwork/Layout album" option, you can resize or reposition images freely for printing. The other print modes allow you to do such things as tile the images for printing or arrange them for printing on Canon perforated paper. See the *ZoomBrowser EX Software User Guide* (p. 4), a PDF file, for a detailed explanation of the print modes.

4. In the next dialog, set the paper size and other settings and click [Next].

5. In the last dialog, set the fine settings and click [Finish].

The PhotoRecord window will display.

6. If you wish to change the layout, set the printing settings in the PhotoRecord window.

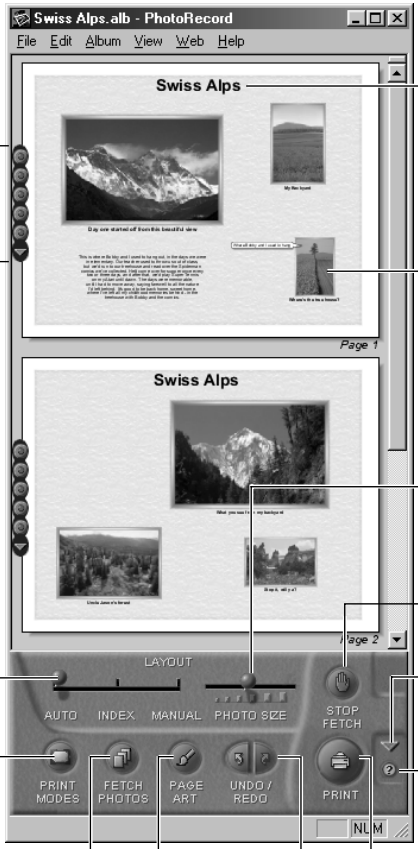
7. Click the PhotoRecord [Print] button.

The Print dialog will display.

8. Click [OK] to start printing.

- When you click the [Print] button and select [Index] from the displayed menu, the Print Index dialog will display. Set the desired thumbnail size and paper size, then click [Print] to start printing the index.

• PhotoRecord Window



Select a layout pattern for each page. Click the arrow ▼ to display a pop-up menu.

You can freely input page titles, image titles, or text.

You can drag images to change the layout.

Slide this left to shrink the image size and right to increase it.

Select whether images are laid out automatically, manually or as an index.

Stop importing images.

Switch between control panel sizes with this.

Display Help.

Set the printing mode or paper size.

Import images.

Display the Print Dialog.

Change the page background or borders.

Undo or restore the previous action.

Windows

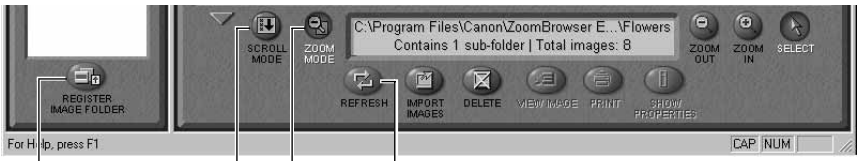
ZoomBrowser EX Features

This topic introduces additional, convenient ZoomBrowser EX features.

- For a more detailed explanation, please see the *ZoomBrowser EX Help* menu or PDF manual, *ZoomBrowser EX Software User Guide* (p. 4).

Using the ZoomBrowser EX Buttons

The bottom of the ZoomBrowser EX window contains the buttons that control various functions. This topic describes four of those buttons that are particularly convenient.



Scroll Mode Button
Switches to and from the scroll mode.

Zoom Mode Button
Switches to and from the zoom mode.

Refresh Button
Updates the folder contents.

Register Image Folder Button
Registers the selected folder as an Image Folder.

Switching the Display Mode

You can change between the Zoom and Scroll modes to suit your purposes when images are displayed in the Browser Display Area.

Zoom Mode

When you create a folder within a folder, use this mode to display all the images inside the sub-folder too.

The images inside the sub-folders also display.

Scroll Mode

Use this mode to just display the images within one folder. When there are more images than can fit in the Browser Display Area, scroll bars appear on the right of the Browser Display Area. The sub-folders only appear as folder icons in this mode.

Scroll Bar

The images inside the sub-folders do not display.

Registering a Folder as an Image Folder

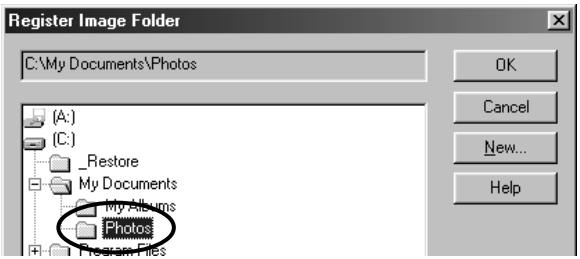
Folders shown in the Tree View area with a symbol are called Image Folders. ZoomBrowser EX only manages the images contained in these folders and the subfolders nestled within them.

1. Click the [Register Image Folder] button.

The Select Image Folder dialog will display.

2. Select the folder you wish to register and click the [OK] button.

- The folder will be registered as an Image Folder.



The folder is registered as an Image Folder.

Refreshing a Folder

Only image files that are added, copied or edited using ZoomBrowser EX will display correctly in a folder that is part of a ZoomBrowser EX image folder. If you move or copy image folders with the Windows Explorer program or edit images with another application, the information contained in ZoomBrowser EX will not be up-to-date. To update a folder, select it and click the [Refresh] button. This will refresh the images in the selected folder and any subfolders within it.

Converting RAW Format Images

Please check whether or not your camera model supports this function (p. 12).

The RAW image file format records image data as captured by the camera's image sensor without further processing by the camera. Although the data is compressed when recorded, the original data can be completely restored without any loss of quality. Moreover, the RAW format is extremely compact, creating files approximately one-quarter the size* of uncompressed files (RGB TIFF). However, RAW images cannot be opened by standard image editing programs unless they are first converted.

Conversion involves generating high-quality RGB signals from the RAW format files. If you use ZoomBrowser EX, RAW Image Converter, or the TWAIN Driver (Windows 98/ Windows 2000), you can adjust the attributes of the original data before conversion to retain the degree of image quality appropriate to your purposes. The result is high-quality images. In contrast, image data recorded in the RGB TIFF and other standard uncompressed file formats is irrevocably processed in the camera and again by an application program when you change the file attributes, which reduces the image quality.

* As measured by standard Canon test conditions.

- Please see the *Camera User Guide* to learn how to shoot RAW images.
- ZoomBrowser EX, RAW Image Converter or the TWAIN Driver (Windows 98/ Windows 2000) is required to convert or download images to the computer.

Converting RAW Images with ZoomBrowser EX

You can convert RAW images with ZoomBrowser EX. Unless you specify a format, images are saved in a new file with the same name (except for the extension) in the TIFF (8 bits/channel) format. To learn how to change the format, read "How to Change the Image Format" (p. 51).

Converting RAW Images without Adjusting the Quality

1. Select a RAW image.

- Select a RAW image from the Browser Display Area of ZoomBrowser EX.

2. Click the [File] menu and select [Convert RAW Image(s)].

- The image will be converted and saved as a new file in the same folder as the original RAW image.

Converting RAW Images with Quality Adjustment

1. Select a RAW image.

- Select a RAW image from the Browser Display Area of ZoomBrowser EX.

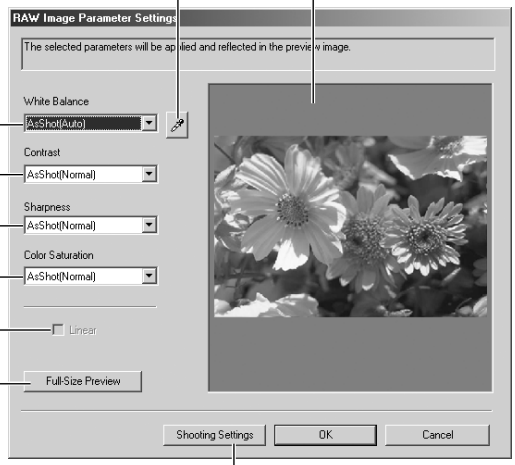
2. Click the [File] menu and select [Convert RAW Image(s) with User Defined Parameters].

- The RAW Image Parameter Settings dialog will display.

3. Select quality settings and click [OK].

- The image will be converted according to the specified parameters and saved in a new file. If multiple images are selected, you only need to set the parameters for the first one. The remaining images will be converted with the same parameters as the first.

• RAW Image Parameter Settings Dialog



Click this and a white point on the Preview Area image to set the white balance.

Preview Area

Adjustments made here are reflected in the image in the Preview Area.

Place a check here to stop color correction except for white balance adjustments. Use this option when you wish to use a retouching program, such as Adobe Photoshop, to perform advanced image editing.

* The [Linear] option is only enabled when a TIFF (16 bits/channel) is selected.

Display the image in the Preview Area at full size.

Reset the image quality settings to the original values.

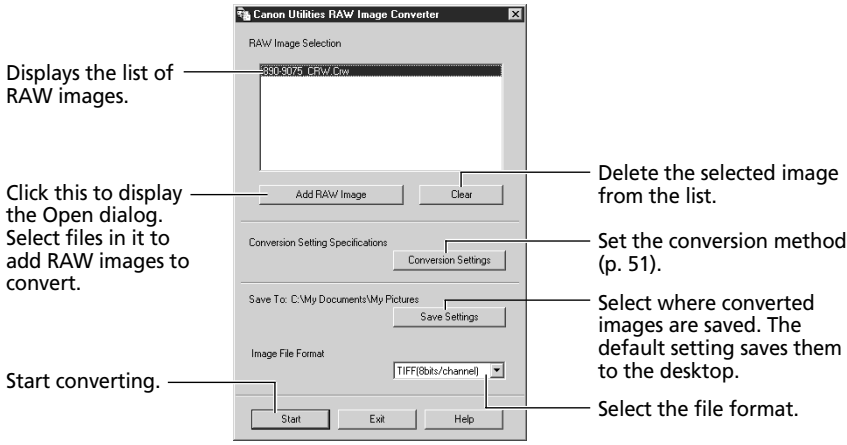
Precautions when Selecting and Adjusting the Attributes of Multiple RAW Images

Ensure that all images included in the selection are from the same camera before attempting to adjust the attributes. The white balance may not adjust properly if images from different cameras are mixed even if the [Manual] white balance option is selected in the RAW Image Parameter Settings dialog or a white portion of the first image is selected in the Preview Area.

Converting Images with RAW Image Converter

If you are using the WIA Driver or downloading directly from a CF card reader, you can use RAW Image Converter to convert RAW images. The converted images can be saved in the TIFF (8 bits/channel), TIFF (16 bits/channel), or Windows BMP formats.

• The RAW Image Converter Main Window



1. **Double-click a RAW image on the computer.**

- RAW Image Converter will start.
- You can select multiple RAW images at once. With the WIA Driver, you can also select a RAW image from the camera, right-click the mouse and select [Convert] to start RAW Image Converter.

2. **Click the [Conversion Settings] button.**

- The Conversion Settings dialog will display (p. 51).

3. **Select a conversion method and click [OK].**

4. **Select a file format for saving the converted files in the [Image File Format] section.**

- Select either the TIFF (8 bits/channel) or BMP format. To select TIFF (16 bits/channel), you must first select [16 bits per color channel] in the [Image Bit Count After Conversion] section of the Conversion Settings dialog.

5. **Select a RAW image file from the list and click [Start].**

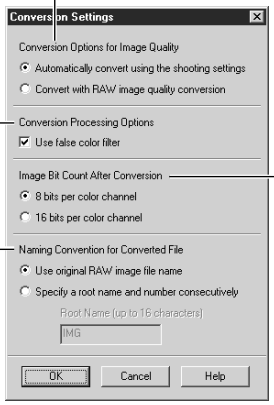
- The selected RAW image will be converted to the specified file format and saved to the desktop. If you selected [Convert with RAW image quality conversion] in the [Conversion Options for Image Quality] section of the Conversion Settings dialog, the RAW Image Parameter Settings dialog will display (p. 49). Adjust the settings and click [OK]. To change where the file is saved, click the [Save Settings] button and change the target folder.

6. **Click [Exit] in the RAW Image Converter main window.**

• Conversion Settings Dialog

Click an option to set whether images convert automatically or are adjusted for image quality. Click the [Convert with RAW image quality conversion] option to display the RAW Image Parameter Settings dialog and make adjustments before conversion (p. 49).

To process images more quickly, remove this check mark if you do not need to have "false colors" removed from portions of the image during conversion.



Click an option to set the bit count for each RGB channel during conversion. Select [8 bits per color channel] to save images in the TIFF (8 bits/channel) or BMP format. Select [16 bits per color channel] to enable the TIFF (16 bits/channel) format.

Click an option to set how file names are assigned to saved images. Select [Use original RAW image file name] to use the original root file with a new extension: TIF or BMP. Select [Specify a root name and number consecutively] to input the root name yourself. The file name will comprise the specified root name followed by a 5-digit number assigned consecutively and the file extension: TIF or BMP.

How to Change the Image Format

• ZoomBrowser EX

1. Click the ZoomBrowser EX [File] menu and select [Preferences].
   The Preferences dialog will display.
2. Change the format selected in the [Image Format] tab and click [OK].

• RAW Image Converter

1. Click the [Conversion Settings] button (p. 50).
   The Conversion Settings dialog will display.
2. Change the option in the [Image Bit Count After Conversion] section.

• TWAIN Driver

1. Click the [Preferences] button (p. 62).
   The Preferences dialog will display.
2. Select the [RAW Conversion Settings] tab and change the image transmission format in the [Transmit RAW image to application] section.

About the 16-Bit Format

When the [16 bits per color channel] option is selected for RAW image conversion, the data is converted to 16 bits per RGB channel. Although colors are sharper than with the 8-bit option, the file size is larger. Moreover, although Adobe Photoshop LE and a few other advanced programs can read the files, some applications cannot.

Replaying Movies

When you double-click an image with a movie icon in the Browser Display Area, QuickTime Player will start and replay the movie.

- If QuickTime 3.0 or a later version is not already installed, install the QuickTime 5.0 program from the Canon Digital Camera Solution Disk. Place the disk in the CD-ROM drive and click [QuickTime 5.0 Installation] in the installer panel (p. 22).

1. Double-click an image with a movie icon.

- QuickTime Player will start.

2. Click the play button in QuickTime Player.

- The movie will replay.

Play Button

- Do not double-click a movie file (.AVI extension) in the Windows Explorer to play it. That will start Windows Media Player, which may not support this file type. To replay movies, start QuickTime Player first and open the file from within the program.

Merging Panoramic Images with PhotoStitch

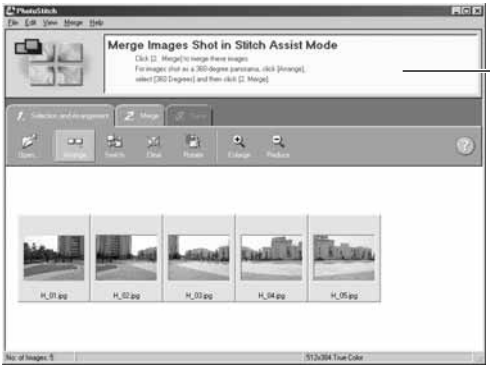
To Merge Images Registered in ZoomBrowser EX

You can merge a series of overlapping images into a single, seamless panorama.

1. **Select the images in the Browser Display Area, click the [Edit] menu and select [PhotoStitch] to start the program.**

2. **Follow the instructions in the guidance window to merge the images.**

- Please refer to the PhotoStitch Help menu for more details.
- Images shot in Stitch Assist mode with a wide converter, teleconverter or close-up lens cannot be merged accurately.

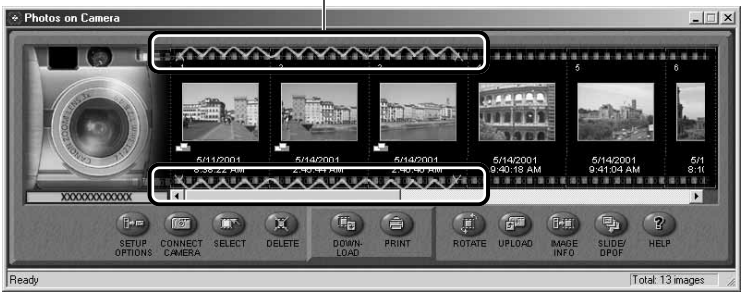


Follow the instructions to merge the images.

Images Shot in Stitch Assist Mode

PhotoStitch automatically arranges images shot with the camera's Stitch Assist mode in their correct order and orientation, making it easy to merge them. Stitch Assist mode images appear in the Camera window as shown below.

Stitch Assist mode images have a green stitch mark. Click the stitch mark to start PhotoStitch and merge the image series.



Please see the *Camera User Guide* to learn how to shoot in Stitch Assist mode.

Windows

Shooting with RemoteCapture

RemoteCapture will start if you click the [Edit] menu in ZoomBrowser EX and select [RemoteCapture] when the camera is connected to the computer via a USB interface. RemoteCapture lets you control the camera's shutter remotely from the computer to shoot still images.

- You can also save images directly to the computer by pressing the camera's shutter button. However, if you press the camera's shutter button while a file is being transmitted to the computer, the shutter will not release until the transmission is complete. Other buttons and switches on the camera, including the zoom, will also not operate with a transmission in progress. The camera's shutter button cannot be used with RemoteCapture on some models (p. 12).
- You may notice that the interval between the shutter release and activation is slightly longer when RemoteCapture is used to shoot than when the camera is used in the normal fashion.
- Images shot with RemoteCapture are automatically saved to the folder selected in ZoomBrowser EX.

• Save-RemoteCapture Window

Thumbnail View
Displays thumbnails of all the images shot after RemoteCapture is started.

Connect/Disconnect Button
Click here to open a connection to the camera and display the RemoteCapture Shooting window. It will change to the Disconnect button while a connection is open. Click it to close the connection.

View Button
Select an image in the Thumbnail View and click here to display it in the Image Display Area.

Delete Button
Select an image in the Thumbnail View and click here to delete it. Since it is deleted from the computer too, ensure that you have the correct image.

Histogram
Check the distribution of brightness data here.

Image Information
Check the image settings here.

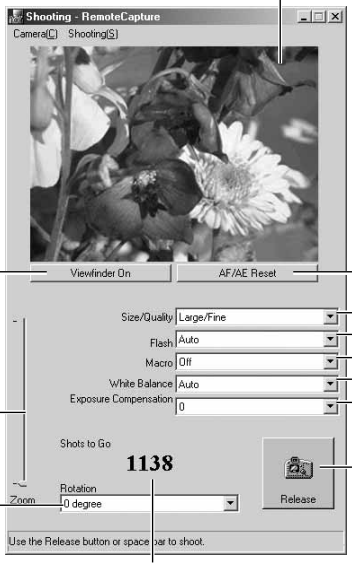
Comments
Add a comment about the image here.

Image Display Area
Displays the image selected in the Thumbnail View.

• Shooting-RemoteCapture Window

Viewfinder On/Off Button*
Click here to turn the viewfinder display on or off.

Viewfinder Display*
If you click the [Viewfinder On] button while a connection to the camera is open, the image appearing in the camera's viewfinder will appear in this area. The focus and exposure do not update unless you click the [AF/AE Reset] button if the distance to the subject or the lighting changes.



AF/AE Reset Button*
Click here to reset the focus/exposure.

Slide this to zoom the camera in or out.

Set the basic camera settings here.

Release Button
Click here to release the camera's shutter and record the image. Recorded images are automatically saved to the computer.

Click here to select how images are rotated when saved to the computer.

Recordable Image Counter
Displays the number of images that will fit onto the computer or CF card in the camera.

* The button name will vary according to your camera model as follows:

Viewfinder Display:	Test Preview A preview of the test shot displays.
Viewfinder On/Off Button:	Test Shot Button Takes a test shot. Test shots are not saved to the computer.
AF/AE Reset Button:	Does not appear.

Shooting

1. Attach the supplied USB cable to the computer's USB port and the camera's DIGITAL terminal. Prepare the camera for communication with the computer.

- Windows 98/Windows 2000: the event dialog will appear, allowing you to select an application program to start.
- Windows Me: the Scanners and Cameras Wizard will appear. Click the [Cancel] button and double-click the [Canon ZoomBrowser EX] icon on the desktop to start ZoomBrowser EX. From its [Edit] menu, select [RemoteCapture]. The Shooting - RemoteCapture window will display. Proceed to Step 6.
- Windows XP: ZoomBrowser EX will start immediately when it has been set to auto start in the "Setting an Event to Start Automatically (Windows XP only)" section (p. 29). In this case, proceed to step 3 below. If the Scanners and Cameras Wizard has been set to auto start, the [Scanners and Cameras Wizard] dialog will display. Click the [Cancel] button and double-click the [Canon ZoomBrowser EX] icon on the desktop to start ZoomBrowser EX. After ZoomBrowser EX starts, click the [Edit] menu and select [RemoteCapture]. When the Shooting-RemoteCapture window opens, proceed to Step 6 below.

2. Select [Canon ZoomBrowser EX] and click [OK].

ZoomBrowser EX will start and open the ZoomBrowser EX Automation Wizard.

3. Click the [Modify Settings] button.

- The ZoomBrowser EX Automation Wizard dialog will display.

4. Select [Launch RemoteCapture] and click the [Finish] button.

- RemoteCapture will start and display the "Connect to Camera?" dialog.

- If ZoomBrowser EX is already running, click the [Edit] menu and select [RemoteCapture] to start RemoteCapture.

5. Click [Yes].

- Shooting-RemoteCapture window will display.

6. Set the Size/Quality, Flash, Macro, White Balance and Exposure Compensation settings.

- If you turn the camera on either side to shoot, you can rotate the recorded image 90º either way when it is saved by selecting [90 degrees left] or [90 degrees right] in the Rotation section. To change where the image is saved, see "Changing the Save Location and Other Preferences" (p. 57).

7. If you click the [Viewfinder On] or [Test Shot] button, you can check the image composition in the Viewfinder Display or Test Preview Area of the Shooting-RemoteCapture window.

- You can change the focal length with the Zoom slider. If the focal distance or the brightness changes, click the [AF/AE Reset] button to refresh the image. (Not supported by some camera models.)

8. Click the [Release] button.

- The image will record and be automatically saved to the computer. You can also release the shutter by pressing the camera's shutter button directly or pressing the space bar on the computer keyboard.

Interval Timer Shooting

You can shoot a specified number of frames at set intervals.

1. **In the Shooting-RemoteCapture window, click the [Shooting] menu and select [Interval Timer Shooting].**

- The Interval Timer Shooting dialog will display.

2. **Set the number of frames and the interval value and click [OK].**

- RemoteCapture will start Interval Timer shooting, capturing the specified number of frames at the specified interval. You can capture up to the number of recordable frames displayed in the RemoteCapture Shooting window (to a maximum of 9999 frames).

Timer Shooting

You can use the timer feature to shoot after a specified number of seconds.

1. **In the Shooting-RemoteCapture window, click the [Shooting] menu and select [Timer Shooting].**

- The Timer Shooting dialog will display.

2. **Set the delay in seconds and click [Start].**

- RemoteCapture will start timer shooting, recording an image after the specified delay. You can specify a delay from 2 to 30 seconds.

Precautions for Shooting with RemoteCapture

- If your computer is set to go into standby mode, there is no guarantee that RemoteCapture will continue to function after the computer enters standby mode. Always turn off the standby function before you start shooting with RemoteCapture.
- Please note that the camera will not be able to shoot at the specified interval if it is shorter than the time required to transmit the data and save it to the computer.

Changing the Save Location and Other Preferences

You can change where and how image files are saved.

1. **In the save RemoteCapture window, click the [File] menu and select [Preferences].**

- The Preferences dialog will display.

2. **Select the way images are saved and the folder to which they are saved and click [OK].**

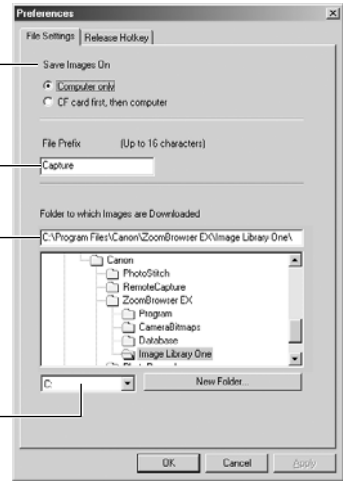
• Preferences Dialog

Click an option to determine whether images are saved to the camera's CF card as well as the computer. If you select [Computer only], you can do without a CF card in the camera or continue to record images after the CF card is full.

Input a root name for the image files here. If you input "Capture", for example, the first image will be named [Capture_00001.jpg] and successive images will automatically be assigned a name that is one number higher than the last.

Select a folder where images will be saved.

Select the drive on the computer where images will be saved.



How to Display the Subject in the Camera's LCD Monitor (Not supported by some camera models)

You can view the subject you are shooting in the camera's LCD monitor.

1. In the Shooting-RemoteCapture window, click the [Camera] menu and select [Camera Display Settings].

The Camera Display Settings dialog will display.

2. Select [Camera LCD monitor] and click [OK].
3. In the Shooting window, click the [Viewfinder On] button.

If you select [Video Out Terminal] instead, you can view the subject on a TV monitor. Please see the *Camera User Guide* to learn how to connect to a TV.

Printing an Index of the Thumbnail Images

If you select images in the Thumbnail View area of Save-RemoteCapture window, you can print them in an index like a contact sheet.

1. Select the images, click the [File] menu and select [Print Index].

The file name and shooting date are printed along with each image in the index, providing a convenient record and means of checking your images.

Loading Images into TWAIN-Compliant Programs

This topic explains how to load images into the TWAIN-compliant application programs, ArcSoft PhotoImpression (PhotoImpression) and Adobe Photoshop LE (Photoshop LE). For detailed instructions, see the Help menu for the respective program.

- This feature is only supported by Windows 98 and Windows 2000. It is not supported by Windows Me and Windows XP.
- To load images with PhotoImpression or Photoshop LE, the TWAIN Driver and these programs must be correctly installed onto the computer. For installation instructions, please read "Installing ArcSoft Camera Suite" (p. 23), "Installing Adobe Photoshop LE" (p. 23), and "Installing the USB TWAIN Driver/USB WIA Driver" (p. 25).

Loading Images into PhotoImpression

Starting the TWAIN Driver from within PhotoImpression

USB Connection

1. **Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminal. Prepare the camera for communication with the computer.**

- For USB interface connection instructions, see "Connecting to a USB Port" (p. 16).
- The Event dialog will display and allow you to select an application program to start.

2. **Click [Cancel].**

3. **Click the Windows [Start] menu and select [Programs], [ArcSoft Camera Suite] and [PhotoImpression].**

- PhotoImpression will start.

4. **Click the [Camera/Scanner] button at the bottom left of the PhotoImpression window.**

5. **Select your camera model from the [Select Source] list.**

6. **Click the button.**

- The TWAIN Driver will start (p. 62).

CF Card Reader/PC Card Reader Connection

1. **Insert the CF card or loaded PC card adapter into the reader.**

2. **Click the Windows [Start] menu and select [Programs], [ArcSoft Camera Suite] and [PhotoImpression].**

- PhotoImpression will start.

3. **Click the [Camera/Scanner] button at the lower left of the PhotoImpression window.**

4. **Select your camera model from the [Select Source] list.**

5. **Click the button.**

- The TWAIN Driver will start (p. 62).

Loading Images into Photoshop LE

Starting the TWAIN Driver from within Photoshop LE

USB Connection

1. **Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminal. Prepare the camera for communication with the computer.**

- For USB interface connection instructions, see "Connecting to a USB Port" (p. 16).
- The Event dialog will display and allow you to select an application program to start.

2. **Select [Adobe Photoshop LE] and click [OK].**

- Photoshop LE will start.

3. **Click the Photoshop LE [File] menu and select [Import] and [Select TWAIN_32 Source].**

4. **Choose your camera model name and click [Select].**

5. **Click the [File] menu and select [Import] and [TWAIN_32].**

- The TWAIN Driver will start (p. 62).

CF Card Reader/PC Card Reader Connection

1. **Insert the CF card or loaded PC card adapter into the reader.**

2. **Click the Windows [Start] menu and select [Programs], [Adobe], [Photoshop Limited Edition] and [Adobe Photoshop Limited Edition].**

- Photoshop LE will start.

3. **Click the [File] menu and select [Import] and [Select TWAIN_32 Source].**

4. **Choose an appropriate source and click [Select].**

Select [Canon XXX USB], where the XXX represents your camera model name, as the source as appropriate.
If several models are listed, select the one that corresponds to your camera.

5. **Click the [File] menu and select [Import] and [TWAIN_32].**

- The TWAIN Driver will start (p. 62).

• TWAIN Driver Window (with the PowerShot A40/A30)

Camera Settings Button
Click here to adjust or check camera settings (p. 41).

Preferences Button
Click here to adjust or check image transmission settings or RAW image quality settings (p. 51).

Rotate 90 Degrees Buttons
Click a button to rotate the selected image 90 degrees left or right.

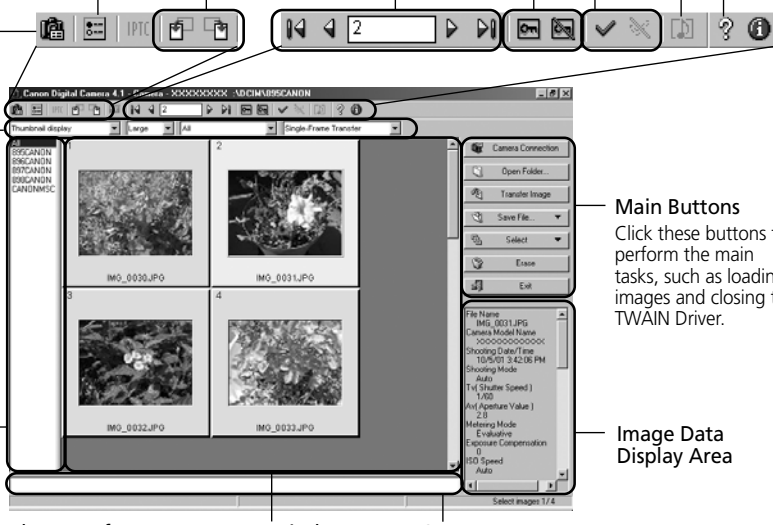
Image Selection Button

Check Mark On/Off Button
You can choose an image selection method if you press the [Select] button after adding a check mark.

Protection On/Off Button

Play Memo Button
Click here to play a voice memo associated with an image.

Help Button



Main Buttons
Click these buttons to perform the main tasks, such as loading images and closing the TWAIN Driver.

Image Data Display Area

Display Area for Image Folder Selection

Image Display Area
Images display here when a camera is connected.

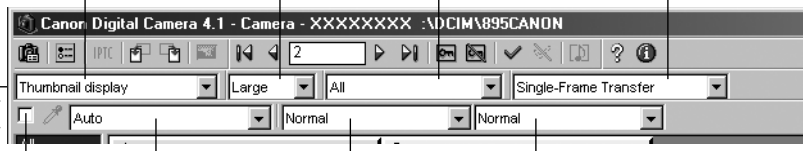
Comment Box
Input a comment of up to 120 characters here. (You cannot input a comment while the camera is connected.)

Display Mode List Box
Click here to select between the Thumbnail and Preview display modes.

Display Size List Box
Click here to select an image display size.

Image Format List Box
Click here to select the format of the images you wish to display.

Image Transmission Mode List Box
Click here to select to transmit the selected images as a single image or as an index sheet.



Click here to adjust the white balance.

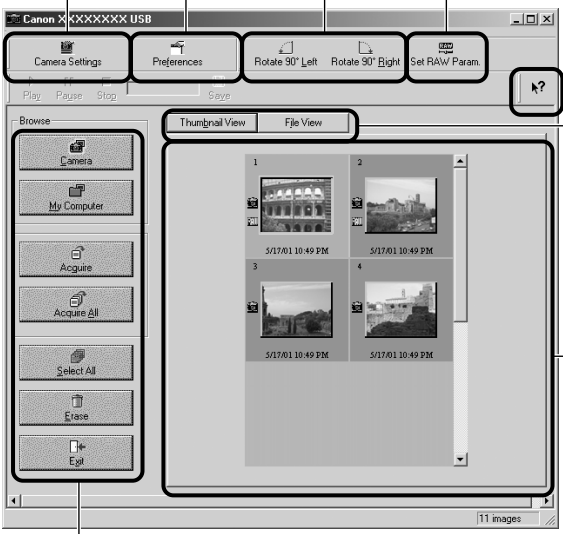
Click here to adjust the contrast.

Click here to adjust the color saturation.

Click here to insert a check mark and then select a white portion of the image to automatically adjust the white balance.

Sets the parameters for converting RAW images (may not appear with some camera models).

• **TWAIN Driver Window (with other than the PowerShot A40/A30)**



Loading Images with the TWAIN Driver

• The TWAIN Driver only displays still images. To download movies, use ZoomBrowser EX (p. 35).

Loading from the Camera

1. **Click the [Camera Connection] button or [Camera] button.**

• The camera's images will display in the Thumbnail Display Area.

2. **Select the image(s) you wish to load and click the [Transfer Image] button or [Acquire] button.**

• The image(s) will appear in PhotoImpression or Photoshop LE.

3. **Click the [OK] button.**

The aquired image(s) will display in PhotoImpression's or Photoshop LE's main window. To save the aquired image(s), click the [File] menu of the image editing software and select [Save as]. Input a file name and change the file location and format settings if necessary.

Loading from a Card Reader

1. **Click the [Open Folder] button or [My Computer] button.**

- The Image Folder Selection dialog or the My Computer dialog will display will display.

2. **Select the folder containing the images and click [OK].**

- The CF card images will display in the Thumbnail Display Area.
- Please see page 19 for a description of the CF card file structure.

3. **Select the image(s) you wish to load and click the [Transfer Image] button or [Acquire] button.**

- The image(s) will appear in PhotoImpression or Photoshop LE.

4. **Click the [OK] button.**

- The acquired image(s) will display in PhotoImpression's or Photoshop LE's main window. To save the acquired image(s), click the [File] menu of the image editing software and select [Save as]. Input a file name and change the file location and format settings if necessary.

How to Convert RAW Images with the TWAIN Driver

1. Select a RAW image in the TWAIN Driver and click the [Transfer Image] button or [Acquire] button.

   The RAW image will be automatically converted and sent to the application program as 8-bit-per-channel data. (With Photoshop LE, RAW images can also be converted to, and sent to the application program as 16-bit-per-channel data.)

- You can change the RAW image conversion settings and image transmission format in the TWAIN Driver's main window (p. 62). You can also refer to the "Converting RAW Format Images" section (p.48).
- Please note that image attribute settings revert back to the default settings when you close the TWAIN Driver.

• Using the False Color Filter

Click the TWAIN Driver's [Preferences] menu to open the Preferences dialog. In it you can select whether or not the false color filter is used. Remove the check mark from this option if you do not need to reduce the false colors in the image.

Downloading Images with the WIA Driver

If you are using Windows Me or Windows XP (and installed the WIA Driver), you have the following alternatives for downloading images to the computer.

Downloading with the Scanners and Cameras Wizard

Follow the Wizard's step-by-step instructions to download images to the computer. When you download RAW images, they are automatically converted and saved in the Windows BMP format.

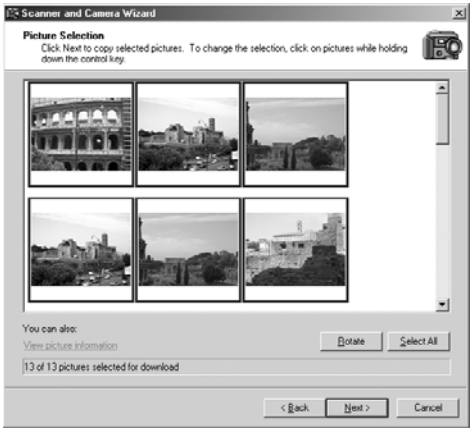
1. **Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminal.**

- For USB interface connection instructions, see "Connecting to a USB Port" (p. 16).
- The Scanners and Cameras Wizard will open automatically.

2. **Click the [Next] button.**

3. **Select the image(s) you wish to download and click the [Next] button.**

- To select multiple images, press and hold the [Ctrl] or [Shift] key on the keyboard while clicking on images. To select all the images, click [Select All].



4. **Specify a filename and save location and click the [Finish] button.**

- The selected images will download to the specified folder. If you do not specify a folder, they are saved by default to the [My Pictures] folder within the computer's [My Computer] folder.

Downloading with Windows Explorer

Images can be downloaded to the computer with Windows Explorer just as you would copy any other file. RAW images can also be downloaded this way.

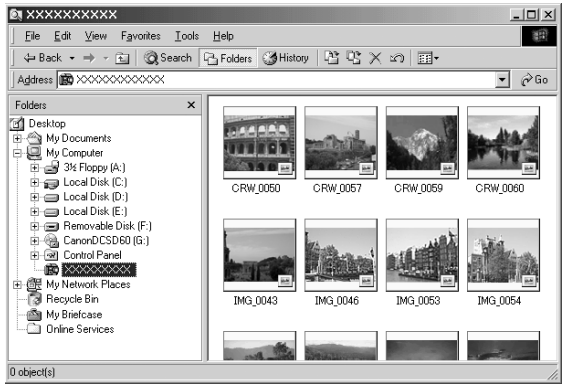
1. Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminal.

- For USB interface connection instructions, see "Connecting to a USB Port" (p. 16).
- The Scanners and Cameras Wizard will open automatically.

2. Click the [Cancel] button.

3. Start Windows Explorer and select your camera's icon in it.

- The camera's images will display as thumbnails in the Explorer window.



4. Copy images to a folder on the hard disk using standard Explorer file copying procedures.

- Copy by Specifying a Folder
  Select an image in the Explorer window, right-click the mouse, select [Save] and specify a folder. The image and its thumbnail will be downloaded to the specified location.
- Copy by Dragging and Dropping
  Select an image in the Explorer window, drag it to the target folder and drop it. This will download the image and its thumbnail. RAW image files converted and downloaded in this manner will have the "CRW" file name extension removed but retain the remainder of the original file name. For example, [CRW_0001.CRW] on the CF card will become [CRW_0001] on the computer.

Converting RAW Images with Windows Explorer

If you double-click a RAW image in Explorer or right-click it and select [Convert], RAW Image Converter will start to allow conversion of the image. For more on converting RAW images, read "Converting RAW Format Images" (p. 48).

Downloading with the File Dialog

You can select an image with the Open dialog, load it into the program and save it to the computer. This topic explains how to load images using ArcSoft PhotoImpression.

- RAW images will not show in the Open dialog. Accordingly, RAW images cannot be downloaded with this method.

1. Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminal.

- For USB interface connection instructions, see "Connecting to a USB Port" (p. 16).
- The Scanners and Cameras Wizard will open automatically.

2. Click the [Cancel] button.

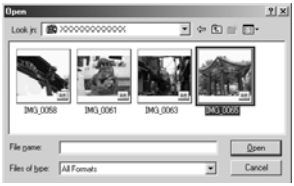
3. Start the image editing program, such as ArcSoft PhotoImpression.

4. Click the [File] menu and select [Open].

- The Open dialog will display.

5. Select your camera's icon in the file list.

- The camera images will display.



6. Select the image(s) you wish to download and click the [Open] button.

- The selected image(s) will load into the program.
- To save the loaded image(s), click the [File] menu and select [Save As]. Input a file name and change the file location and format settings if necessary.

Loading Images with Windows TWAIN Source

You can also load images, excluding RAW images, into a program (not ArcSoft PhotoImpression) with Windows TWAIN Source.

1. Connect the camera to the computer with the USB interface.
2. Start a TWAIN-compliant program, such as Adobe Photoshop.
3. Open the dialog in which you can select the TWAIN source and select [WIA-your camera model], where your camera model name appears after "WIA".
4. Start TWAIN Source.
5. Select the image(s) you wish to download and click the [Acquire] button.
   The selected image(s) will load into the program.

The procedures for starting TWAIN-compliant programs and opening their dialogs may vary between programs. Refer to the program manuals for more details.

Saving the My Camera Settings to the Camera

Please check whether or not your camera model supports this function (p. 12).

The start-up image, start-up sound, shutter sound, operating sounds, and self-timer sound are called the My Camera Settings. You can add your favorite images and sounds from your computer to the My Camera Settings in the camera. This topic explains how to upload the My Camera Settings saved onto your computer to the camera. Use ImageBrowser to perform this function.

- For a more detailed explanation, please see the *ZoomBrowser EX Help* menu or PDF manual, *ZoomBrowser EX Software User Guide* (p. 4).

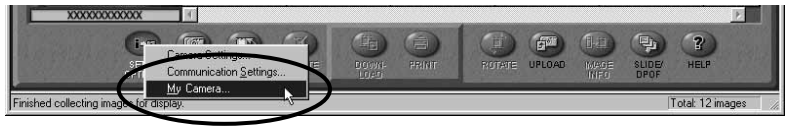
Displaying the My Camera Window

To save the My Camera Settings to the camera, you use the My Camera window. The following explains the procedures for displaying the My Camera window.

1. **The Camera Window will open after you have connected the camera to the computer and started ZoomBrowser EX.**

For starting instructions for ZoomBrowser EX, see "Starting ZoomBrowser EX" (p. 37).

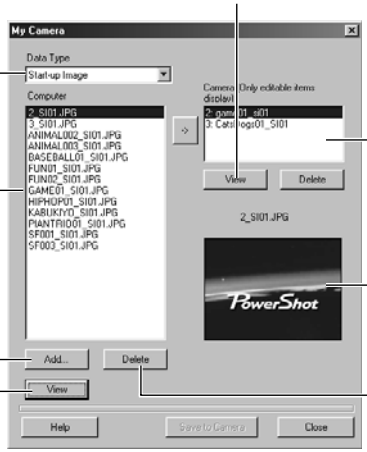
2. **Click the [Setup Options] button in the Camera window and select [My Camera] from the displayed menu.**



The My Camera window will display.

- ZoomBrowser EX already contains several pre-recorded My Camera Settings items. You can check these items with the My Camera window.

• The My Camera Window



Type
Selects the type of My Camera Settings.

Displays the My Camera Settings saved to the computer.

Add Button
Adds data as My Camera Settings to the Computer list when clicked.

View/Play Camera Button
Displays the thumbnail (tiny version) of the selected image data in the camera. The button's name changes to the Play button when a sound is selected.

Displays the Camera Settings int camera.

Displays the image here when the View button is clicked.

Delete Button
Deletes data from the Computer list.

View/Play Button
Displays the thumbnail (tiny version) of the selected image data. The button's name changes to the Play button when a sound is selected.

- You can add new data to the My Camera window. See "Adding New Data to the My Camera Window" (p. 71).

Saving the Data to the Camera

You can save the My Camera Settings displayed in the My Camera window to the camera.

- Content that does not appear in the Computer list of the My Camera window cannot be saved to the camera.
- Do not detach the USB cable, turn the camera power off, or disconnect the camera from the computer while the My Camera Settings is being saved to the camera.

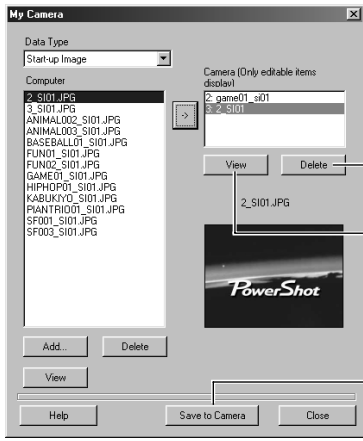
1. **Select a data type from the [Type] menu in the My Camera window.**

2. **Select the data you wish to save to the camera from the [Computer] list.**

- If you select a start-up image file in the Computer list, the image thumbnail (tiny version) will appear on the right of the window when you click the [View] button. If you select a sound in the Computer list, the sound will play when you click the [Play] button.

3. **Select the settings in the Camera list that you wish to change and click the [→] button.**

- The Camera list contents are replaced by the specified data. If the data has previously been added, it will be overwritten.



Delete Button
Deletes contents added to the Camera list.

View/Play Button
Displays image data or plays sound data in the Camera list.

Save to Camera Button
Saves the My Camera Settings to the camera.

- The names of the prepared files for the various My Camera Settings (start-up image, start-up sound, shutter sound, operating sounds and self-timer sound) all begin with the same root name ("ANIMAL~," "BASEBALL~," etc.). If you select the settings that start with the same name after they have been saved to the camera, you can select settings with a common theme.

4. **Repeat steps 1-3 to replace all the contents you wish to add to the camera.**

5. **Click the [Save to Camera] button.**

- Settings in the Camera list will be saved to the camera.

6. **Click the [Close] button to close the window.**

- This concludes the process for saving the My Camera Settings to the camera.

To use this data on the camera, change the start-up image and sound settings on the camera itself. Please see the *Camera User Guide* for instructions for these procedures.

Adding New Data to the My Camera Window

To add new data to the My Camera Window, you need to create it, save it to the computer and add that file to the My Camera window.

Create New Data before Adding to the My Camera Window

Start by creating the start-up image or sound and saving it to the computer.

Creating a Start-Up Image

Create an image using an image editing application program, such as ArcSoft PhotoImpression or Adobe Photoshop LE. Create the file in the JPEG format at a size of 320 x 240 pixels.

Creating a Sound

Record a sound using a Sound Recorder, such as the one commonly bundled with Windows. Record the sound as a 11.025 kHz or 8.000 kHz, 8 bit, mono sound and save it in the WAV format. Furthermore, the sound duration should conform to the following.

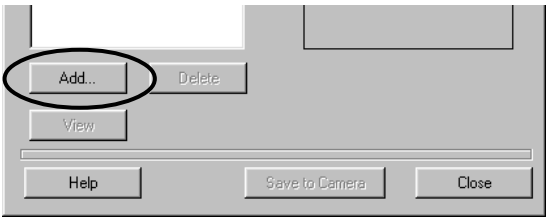
Type	Duration in Seconds	
	11.025 kHz	8.000 kHz
Start-Up Sound	1.0 sec. or less	1.3 sec. or less
Shutter Sound	0.3 sec. or less	0.4 sec. or less
Operating Sound	0.3 sec. or less	0.4 sec. or less
Self-Timer Sound	2.0 sec. or less	2.0 sec. or less

- Please note that files not meeting the above criteria cannot be saved to the camera.

- To learn how to create a sound file, see the *ZoomBrowser EX Software User Guide* (p. 4), a PDF file.

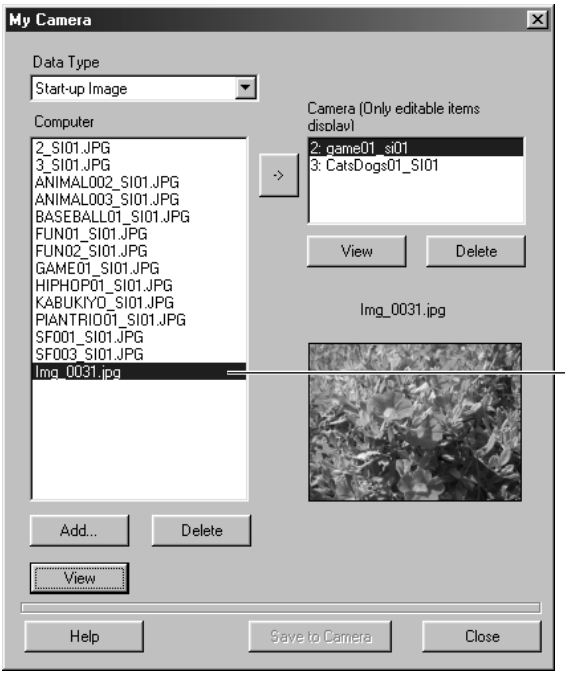
Once you have created the data and saved it to the computer, use the following procedures to add it to the My Camera window.

1. Open the My Camera window, and click the [Add] button.



2. Select the file you created in the Open file dialog and click the [Open] button.

- The selected file will appear in the Computer list.



The newly added data will appear here

This concludes the process for adding new data.

You can save the newly created data to the camera using the procedures described in the "Saving the Data to the Camera" section (p. 69).

- To delete a data file, select it and click the [Delete] button.

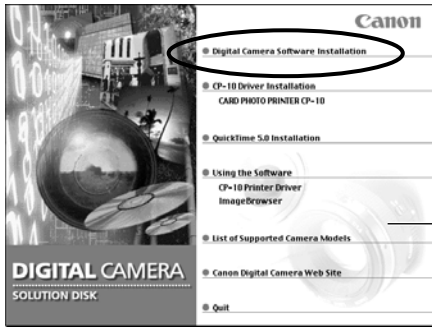
Using the Software on the Macintosh Platform

Installing / Uninstalling the Software 74
Installing from the Canon Digital Camera Solution Disk 74
Installing ArcSoft Camera Suite 74
Installing Adobe Photoshop LE 75
Installing the Card Photo Printer CP-10 Printer Driver 76
Uninstalling the Software 76
Downloading Images to a Computer 77
Starting ImageBrowser 77
The ImageBrowser Camera Window 80
Downloading and Saving Images from the Camera 81
Printing Images 83
ImageBrowser Features 85
Converting RAW Format Images 85
Replaying Movies 89
Merging Panoramic Images with PhotoStitch 90
Shooting with RemoteCapture 91
Loading Images into Plug-In Compliant Programs 96
Loading Images into Adobe Photoshop LE 96
Downloading Images with the USB Mounter 101
Enabling the USB Mounter 101
Downloading Images 102
Saving the My Camera Settings to the Camera 103
Displaying the My Camera Window 103
Saving the Data to the Camera 104
Adding New Data to the My Camera Window 106

Installing/Uninstalling the Software

Installing from the Canon Digital Camera Solution Disk

1. **Close any programs that are running.**
2. **Set the Canon Digital Camera Solution Disk in the computer's CD-ROM drive.**
3. **Double-click the CD-ROM icon and the [Canon Digital Camera Installer] icon.**
   - The installer panel will display.
4. **Click [Digital Camera Software Installation].**



Installer Panel

5. **Follow the onscreen instructions to proceed with the installation.**
6. **After the installation is complete, restart the computer as prompted.**

Installing ArcSoft Camera Suite*

Installing ArcSoft PhotoImpression

1. **Close all other programs that are running.**
2. **Place the ArcSoft Camera Suite CD in the computer's CD-ROM drive.**
3. **Double-click the CD-ROM icon, followed by the [English] and [PhotoImpression Installer] icons.**
   - Installation will start. Follow the onscreen messages to proceed with the installation.
4. **Click the [Quit] button when a message tells you that the installation is complete.**

Continue by installing ArcSoft VideoImpression.

Installing ArcSoft VideoImpression

1. Double-click the [English] folder icon within the CD-ROM, followed by the [VideoImpression Installer] icon.

- Installation will start. Follow the onscreen messages to proceed with the installation.

2. When the installation is complete, restart the computer.

This concludes the process for installing ArcSoft PhotoImpression and ArcSoft VideoImpression.

Installing Adobe Photoshop LE*

- For detailed installation instructions, double-click the Adobe Photoshop LE CD-ROM icon and open the [English] folder and the [Install] file.

1. Close any programs that are running.

2. Set the Adobe Photoshop LE disk in the computer's CD-ROM drive.

3. Double-click the CD-ROM icon, followed by the [English], [Adobe Photoshop 5.0 LE] and [Install Photoshop LE] icons.

- The installation will start.

- A product serial number is required to install Adobe Photoshop LE. You may use either [SDM501B4164785-650] or the number listed on the CD-ROM case if there is one.

* The model of camera you purchased will determine whether or not an image editing program was supplied with your product as well as the specific program included in the software bundle. Please refer to the System Map supplied with your camera for this information.

Installing the Card Photo Printer CP-10 Printer Driver

The driver for Card Photo Printer CP-10 (sold separately) must be installed to print from a CP-10 connected to the computer.* For installation instructions, please see the *Card Photo Printer CP-10 Printer Driver User Guide* contained on the Canon Digital Camera Solution Disk as a PDF file.

* Interface Cable PIF-100 (sold separately) is required to connect the Card Photo Printer CP-10 to a computer.

Uninstalling the Software

Uninstalling Application Programs

Move the program's folder into the Trash to uninstall programs such as ImageBrowser, PhotoStitch, RemoteCapture, RAW Image Converter, USB Mounter, ArcSoft PhotoImpression, ArcSoft VideoImpression and Adobe Photoshop LE.

- If the program folders contain subfolders into which images have been saved, be careful not to accidentally delete those subfolders.

Uninstalling the Plug-In Module

For instructions to uninstall the Plug-In Module, please open the [Canon Utilities] and [Camera Plug-In] folders and read the [Readme] file.

Uninstalling the Card Photo Printer CP-10 Printer Driver

For instructions to delete the printer driver, please see the *Card Photo Printer CP-10 Printer driver User Guide* contained on the Canon Digital Camera Solution Disk as a PDF file (p. 5).

Downloading Images to a Computer

This topic briefly explains how to use ImageBrowser to perform a range of operations from downloading the camera's images to printing them.

- For a more detailed explanation, please see the *ImageBrowser Help* menu or PDF manual, *ImageBrowser Software User Guide* (p. 4).

If the Continue Connection Confirmation Message Displays

- When a connection between the camera and computer is open and idle for a set period of time (usually about 5 minutes), a message asking whether you wish to remain connected may appear (some models may not display this). If the connection remains idle, the camera will disconnect after approximately 1 minute. The message will not appear and the camera will not disconnect if the camera (excluding the PowerShot A40/A30/A20/A10 models) is powered from a household power source or if the [Auto Power Down] (Power Save) function is set to [off] (PowerShot A40/A30 only).

Press the camera's shutter button or main switch to reconnect. Please see the *Camera User Guide* for more information.

Starting ImageBrowser

USB Port Connection

1. Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminall. Prepare the camera for communication with the computer.

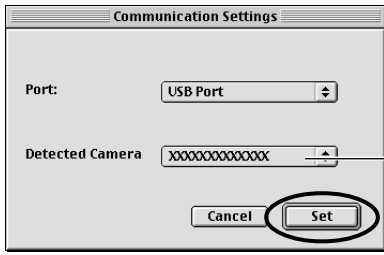
- For USB interface connection instructions, see "Connecting to a USB Port" (p. 16).
- ImageBrowser will start and open the ImageBrowser Automation Wizard dialog.

2. Confirm that [Display Images] is selected and click the [OK] button.

Confirm that this option is selected.

The Communications Settings dialog will display. This dialog only appears the first time the camera is connected.

3. **Confirm that [USB port] and your camera model name are selected and click the [Set] button.**



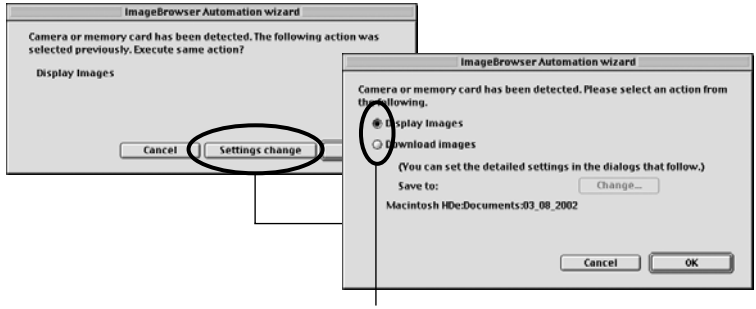
Your camera model name will appear here.

- The Camera Window will open and display the camera images as thumbnails (tiny versions) (p. 80).

- In the ImageBrowser Automation Wizard dialog, you can select the action that is carried out after ImageBrowser starts. For more details, see the PDF manual, *ImageBrowser Software User Guide* (p. 4).

What to Do the Next Time ImageBrowser is Started

- A dialog with the previously selected automated settings will display the next time you start ImageBrowser. To use these settings unchanged, click the [Start] button. To do nothing, click [Cancel]. To change the settings, click [Settings Change].

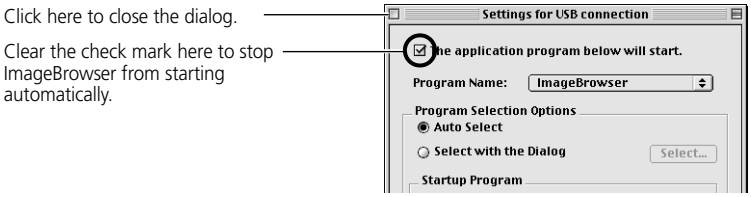


To change the settings, click [Settings Change] and select the desired action in the ImageBrowser Automation Wizard dialog.

- For more detailed instructions for changing settings, please see the PDF manual, *ImageBrowser Software User Guide* (p. 4).

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 clear the check mark.
3. Click the close box at the upper left to close the dialog.
   ImageBrowser will cease to start automatically thereafter.

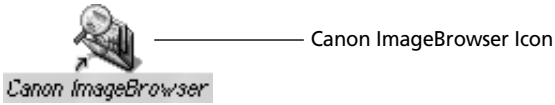


CF Card Reader/PC Card Reader Connection

1. Insert the CF card or loaded PC card adapter into the reader.

2. Start ImageBrowser.

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



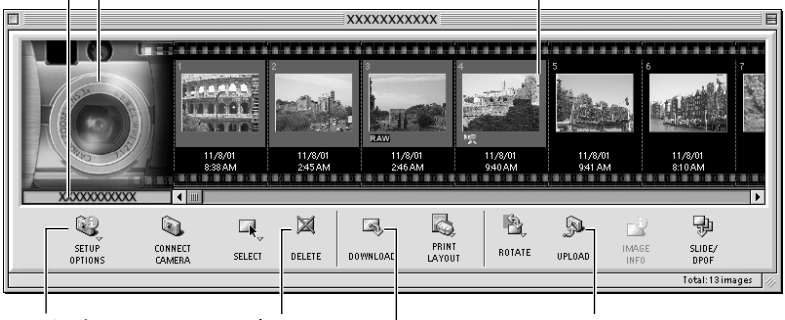
- If the icon does not appear on the desktop, double-click the folder in which you installed the program, followed by the [Canon Utilities] and [ImageBrowser] folders and the [ImageBrowser] file.

3. Double-click the [DCIM] folder in the Explorer View Section.

- The images from the CF card will display as thumbnails in the Camera window (p. 80).

The ImageBrowser Camera Window

When a connection is opened to a CF card in a camera or a reader, the card's images display as thumbnails in the Camera window.



Setup Options Button
Set various camera settings (see inset below).

Delete Button
Delete selected images.

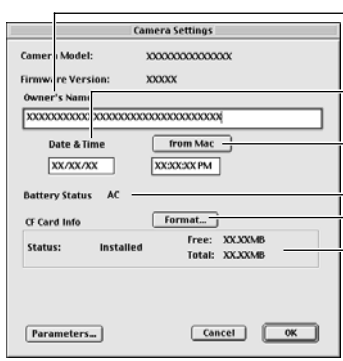
Upload Button
Copy images from the computer onto the CF card in the camera or reader.

Download Button
Load the selected images onto the computer (p. 81).

How to Check and Change Various Camera Settings

You can adjust the date, time and owner settings in the Camera Settings dialog using the computer when the camera is connected. You can also check the battery charge and remaining memory capacity.

1. Click the [Setup Options] button and select [Camera Settings] from the displayed menu. In the Plug-In Module, click the [Camera Settings] button to open the Camera Settings dialog (p. 99).
2. Check or change the settings.



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

Set the date and time here.

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

Check the battery charge here.

Click this to format the CF card in the camera.

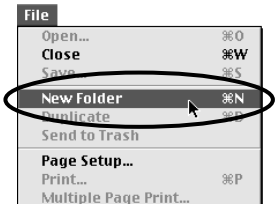
Check the remaining memory capacity here.

Downloading and Saving Images from the Camera

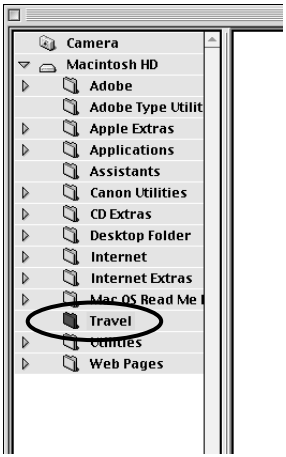
1. **Select [Macintosh HD] in the Explorer View Section.**

2. **Create a new folder for saving images from the camera.**

- 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.

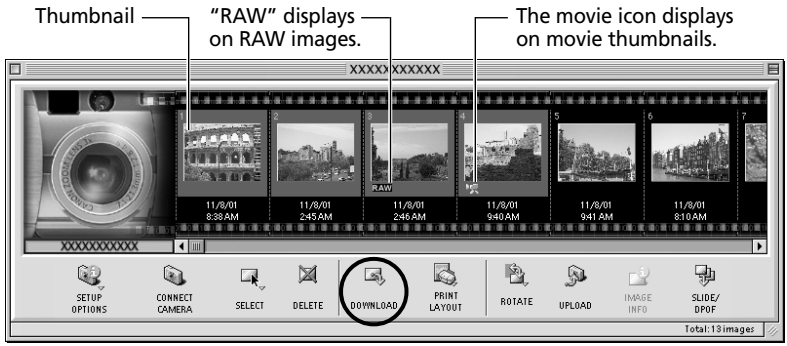


3. **In the Explorer View Section, click the newly created folder.**



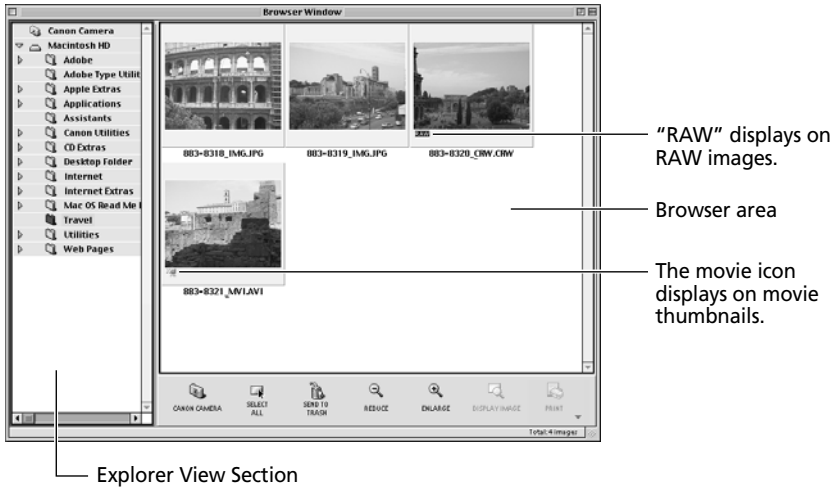
4. Select images in the Camera window and click the [Download] button.

- Click a thumbnail to select it or press [Shift] and click to select multiple thumbnails.



Downloaded images are saved to the computer and appear in the Browser area.

- 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.



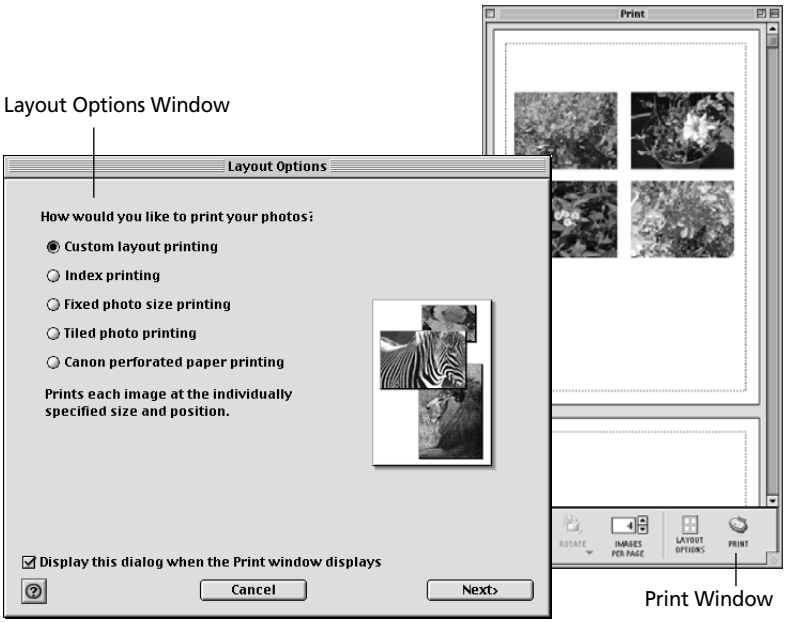
To disconnect the camera, click the close box ☐ at the upper left of the Camera window. The Camera window will close.

Printing Images

1. Select the image(s) you wish to print.

- Movie images cannot be printed.

2. Click the [Print] button and select [Layout Printing] from the displayed menu.



3. In the Layout Options window, select the desired layout and click the [Next] button.

- Select the [Custom layout printing] option for the purposes of this example.

- The Custom Layout printing option in the Layout Options window allows you to freely change the size and position of the images for printing. The other options allow you to print an index or print onto Canon perforated paper. For more details on the Layout Options window, please see the PDF manual, *ImageBrowser Software Guide* (p. 4).

4. **In the next window, select a paper size and click the [OK] button.**

- The Layout Options window will close and the Print window will open, allowing you to change the layout and printing settings.

- The settings available in Step 4 will vary according to the type of layout selected in Step 3.

5. **Adjust the print settings if you wish to change the page layout.**

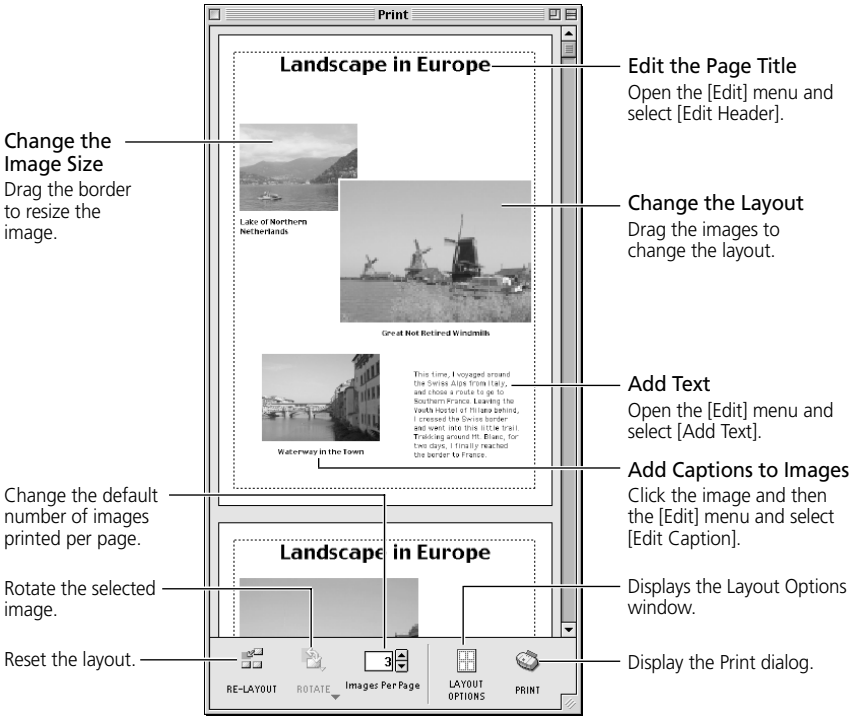
6. **Click the [Print] button in the Print window.**

- The Print dialog will display.

7. **Click [OK] to start printing.**

• Print Window

When the Custom layout printing option is selected in the Layout Options window, you can freely change the size and position of the images for printing.



ImageBrowser Features

This topic introduces additional, convenient ImageBrowser features.

- For a more detailed explanation, please see the *ImageBrowser Help* menu or PDF manual, *ImageBrowser Software User Guide* (p. 4).

Converting RAW Format Images

Please check whether or not your camera model supports this function. (p. 12).

The RAW image file format records image data as captured by the camera's image sensor without further processing by the camera. Although the data is compressed when recorded, the original data can be completely restored without any loss of quality. Moreover, the RAW format is extremely compact, creating files approximately one-quarter the size* of uncompressed files (RGB TIFF). However, RAW images cannot be opened by standard image editing programs unless they are first converted.

Conversion involves generating high-quality RGB signals from the RAW format files. If you use ImageBrowser, RAW Image Converter, or the Plug-In Module, you can adjust the attributes of the original data before conversion to retain the degree of image quality appropriate to your purposes. The result is high-quality images. In contrast, image data recorded in the RGB TIFF and other standard uncompressed file formats is irrevocably processed in the camera and again by an application program when you change the file attributes, which reduces the image quality.

* As measured by standard Canon test conditions.

- Please see the Camera User Guide to learn how to shoot RAW images.
- ImageBrowser, RAW Image Converter or the Plug-In Module is required to convert or download images to the computer.

Converting RAW Images with ImageBrowser

You can convert RAW images with ImageBrowser. Unless you specify a format, images are saved in a new file with the same name in the TIFF (8 bits/channel) format. To learn how to change the format, read "How to Change the Image Format" (p. 88).

Converting RAW Images without Adjusting the Quality

1. Select a RAW image.

- Select a RAW image from the Browser Window of ImageBrowser.

2. Click the [File] menu and select [Convert RAW Images].

- The image will be converted and saved as a new file in the same folder as the original RAW image.

Converting RAW Images with Quality Adjustment

1. Select a RAW image.

- Select a RAW image from the Browser Window of ImageBrowser.

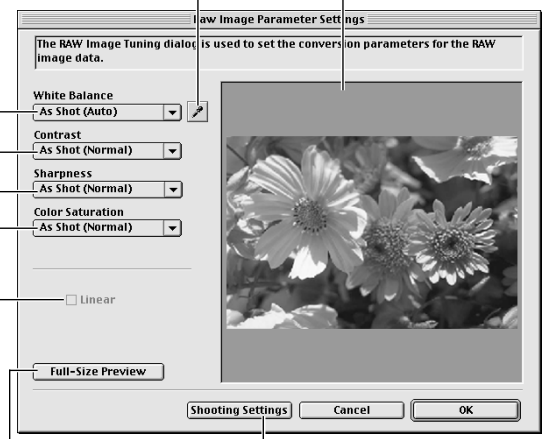
2. Click the [File] menu and select [Convert RAW Images with User Defined Parameters].

- The RAW Image Parameter Settings dialog will display.

3. Select quality settings and click [OK].

- The image will be converted according to the specified parameters and saved in a new file. If multiple images are selected, you only need to set the parameters for the first one. The remaining images will be converted with the same parameters as the first.

• RAW Image Parameter Settings Dialog



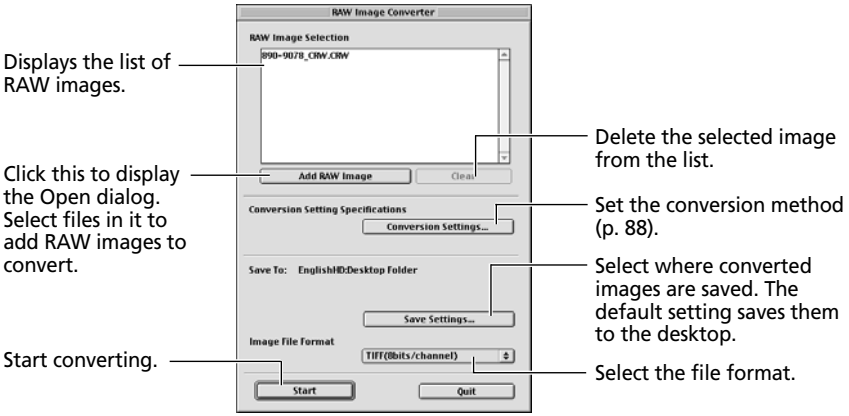
Precautions when Selecting and Adjusting the Attributes of Multiple RAW Images

Ensure that all images included in the selection are from the same camera before attempting to adjust the attributes. The white balance may not adjust properly if images from different cameras are mixed even if the [Manual] white balance option is selected in the RAW Image Parameter Settings dialog or a white portion of the first image is selected in the Preview Area.

Converting Images with RAW Image Converter

If you are using the USB Mounter or downloading directly from a CF card reader, you can use RAW Image Converter to convert RAW images. The converted images can be saved in the TIFF (8 bits/channel) or TIFF (16 bits/channel) formats.

• The RAW Image Converter Main Window



1. **Drag and drop a RAW image on the computer onto the RAW Image Converter icon.**

- RAW Image Converter will start.
- You can select multiple RAW images at once. With the USB Mounter, you can also drag a RAW image in the camera onto the icon to start RAW Image Converter.

2 **Click the [Conversion Settings] button.**

- The Conversion Settings dialog will display (p. 88).

3. **Select a conversion method and click [OK].**

4. **Select a file format for saving the converted files.**

- To select TIFF (16 bits/channel), you must first select [16 bits per color channel] in the [Image Bit Count After Conversion] section of the Conversion Settings dialog.

5. **Select a RAW image file from the list and click [Start].**

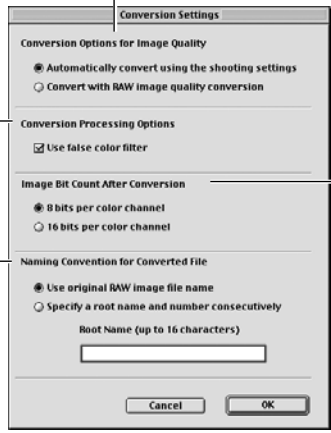
- The selected RAW image will be converted to the specified file format and saved to the desktop. If you selected [Convert with RAW image quality conversion] in the [Conversion Options for Image Quality] section of the Conversion Settings dialog, the RAW Image Parameter Settings dialog will display (p. 86). Adjust the settings and click [OK]. To change where the file is saved, click the [Save Settings] button and change the target folder.

6. **Click [Quit] in the RAW Image Converter main window.**

• Conversion Settings Dialog

Click an option to set whether images convert automatically or are adjusted for image quality. Click the [Convert with RAW image quality conversion] option to display the RAW Image Parameter Settings dialog and make adjustments before conversion (p. 86).

To process images more quickly, remove this check mark if you do not need to have "false colors" removed from portions of the image during conversion.



Click an option to set the bit count for each RGB channel during conversion. Select [8 bits per color channel] to save images in the TIFF (8 bits/channel) format. Select [16 bits per color channel] to enable the TIFF (16 bits/channel) format.

Click an option to set how file names are assigned to saved images. Select [Use original RAW image file name] to use the original root file with a new extension: TIF. Select [Specify a root name and number consecutively] to input the root name yourself. The file name will comprise the specified root name followed by a 5-digit number assigned consecutively and the file extension: TIF.

How to Change the Image Format

• ImageBrowser

1. Click the ImageBrowser [Edit] menu and select [Preferences].
   The Preferences dialog will display.
2. Change the format selected in the [File Format] window and click [OK].

• RAW Image Converter

1. Click the [Conversion Settings] button (p. 87).
   The Conversion Settings dialog will display.
2. Change the option in the [Image Bit Count After Conversion] section.

• Plug-In Module

1. Click the [Preferences] button (p. 99).
   The Preferences dialog will display.
2. Select the [RAW Conversion Settings] tab and change the image transmission format in the [Transmit RAW image to application] section.

About the 16-Bit Format

When the [16 bits per color channel] option is selected for RAW image conversion, the data is converted to 16 bits per RGB channel. Although colors are sharper than with the 8-bit option, the file size is larger. Moreover, although Adobe Photoshop LE and a few other advanced programs can read the files, some applications cannot.

Replaying Movies

When you double-click an image with a movie icon in the Browser Window, QuickTime Player will start and replay the movie.

- If QuickTime 3.0 or a later version is not already installed, install the QuickTime 5.0 program from the Canon Digital Camera Solution Disk. Place the disk in the CD-ROM drive and click [QuickTime 5.0 Installation] in the installer panel (p. 74).

1. Double-click an image with a movie icon.

- QuickTime Player will start.

2. Click the play button in QuickTime Player.

- The movie will replay.

Play Button

Merging Panoramic Images with PhotoStitch

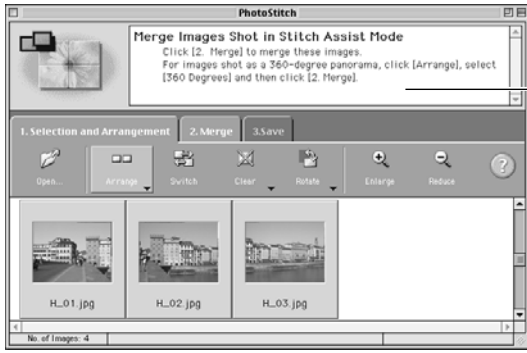
To Merge Images Registered in ImageBrowser

You can merge a series of overlapping images into a single, seamless panorama.

1. **Select the images in the Browser Window, click the [Edit] menu and select [PhotoStitch] to start the program.**

2. **Follow the instructions in the guidance window to merge the images.**

- Please refer to the *PhotoStitch Help* menu for more details.
- Images shot in Stitch Assist mode with a wide converter, teleconverter or close-up lens cannot be merged accurately.

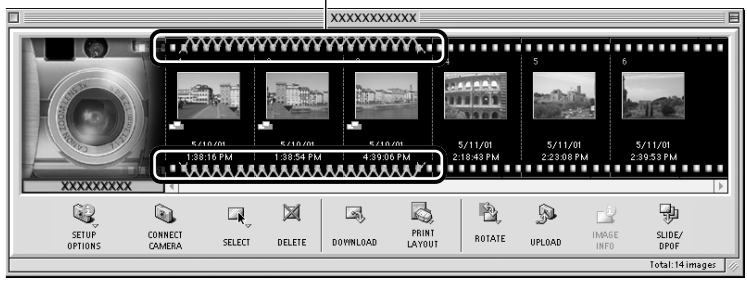


Follow the instructions to merge the images.

Images Shot in Stitch Assist Mode

PhotoStitch automatically arranges images shot with the camera's Stitch Assist mode in their correct order and orientation, making it easy to merge them. Stitch Assist mode images appear in the Camera window as shown below.

Stitch Assist mode images have a green stitch mark. Click the stitch mark to start PhotoStitch and merge the image series.



Please see the *Camera User Guide* to learn how to shoot in Stitch Assist mode.

Shooting with RemoteCapture

RemoteCapture will start if you click the [Edit] menu in ImageBrowser and select [RemoteCapture] when the camera is connected to the computer via a USB interface. RemoteCapture lets you control the camera's shutter remotely from the computer to shoot still images.

- You can also save images directly to the computer by pressing the camera's shutter button. However, if you press the camera's shutter button while a file is being transmitted to the computer, the shutter will not release until the transmission is complete. Other buttons and switches on the camera, including the zoom, will also not operate with a transmission in progress. The camera's shutter button cannot be used with RemoteCapture on some models (p. 12).
- You may notice that the interval between the shutter release and activation is slightly longer when RemoteCapture is used to shoot than when the camera is used in the normal fashion.
- Images shot with RemoteCapture are automatically saved to the folder selected in ImageBrowser.

- You cannot use RemoteCapture when the USB Mounter is running (p. 101).

• Save-RemoteCapture Window

Thumbnail View
Displays thumbnails of all the images shot after RemoteCapture is started.

Connect/Disconnect Button
Click here to open a connection to the camera and display the RemoteCapture Shooting window. It will change to the Disconnect button while a connection is open. Click it to close the connection.

View Button
Select an image in the Thumbnail View and click here to display it in the Image Display Area.

Delete Button
Select an image in the Thumbnail View and click here to delete it. Since it is deleted from the computer too, ensure that you have the correct image.

Histogram
Check the distribution of brightness data here.

Image Information
Check the image settings here.

Comments
Add a comment about the image here.

Image Display Area
Displays the image selected in the Thumbnail View.

Macintosh

• Shooting - RemoteCapture Window

Viewfinder On/Off Button*
Turn the viewfinder display on or off.

Viewfinder Display*
If you click the [Viewfinder On] button while a connection to the camera is open, the image appearing in the camera's viewfinder will appear in this area. The focus and exposure do not update unless you click the [AF/AE Reset] button if the distance to the subject or the lighting changes.

AF/AE Reset Button*
Click here to refocus the camera and meter the exposure again.

Slide this to zoom the camera in or out.

Set the basic camera settings here.

Release Button
Click here to release the camera's shutter and record the image. Recorded images are automatically saved to the computer.

Select how images are rotated when saved to the computer.

Recordable Image Counter
Displays the number of images that will fit onto the computer or CF card in the camera.

* The button name will vary according to your camera model as follows:

Viewfinder Display:	Test Preview A preview of the test shot displays.
Viewfinder On/Off Button:	Test Shot Button Takes a test shot. Test shots are not saved to the computer.
AF/AE Reset Button:	Does not appear.

Shooting

1. Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminal. Prepare the camera for communication with the computer.

- For USB interface connection instructions, see "Connecting to a USB Port" (p. 16).
- If your camera is equipped with a lens cover, open it after the connection is established.
- ImageBrowser will start and open the Auto Run Settings dialog.

2. Click the [Settings Change] button.

3. Select [Launch RemoteCapture] and click the [OK] button.

- RemoteCapture will start and display the "Connect to Camera?" dialog.

If ImageBrowser is already running, click the [Edit] menu and select [RemoteCapture] to start RemoteCapture.

4. Click [Connect].

- Shooting-RemoteCapture window will display.

5. Set the Size/Quality, Flash, Macro, White Balance and Exposure Compensation settings.

- If you turn the camera on either side to shoot, you can rotate the recorded image 90° either way when it is saved by selecting [90 degrees left] or [90 degrees right] in the Rotation Settings section. To change where the image is saved, see "Changing the Save Location and Other Preferences" (p. 95).

6. If you click the [Viewfinder On] or [Test Shot] button, you can check the image composition in the Viewfinder Display or Test Preview Area of the Shooting-RemoteCapture window.

- You can change the focal length with the Zoom slider. If the focal distance or the brightness changes, click the [AF/AE Reset] button to refresh the image. (Not supported by some camera models.)

7. Click the [Release] button.

- The image will record and be automatically saved to the computer. You can also release the shutter by pressing the camera's shutter button directly or by pressing the space bar on the computer keyboard.

Interval Timer Shooting

You can shoot a specified number of frames at set intervals.

1. In the Save-RemoteCapture window or Shooting-RemoteCapture window, click the [File] menu and select [Interval Timer Shooting].

- The Interval Timer Shooting dialog will display.

2. Set the number of frames and the interval value and click [OK].

- RemoteCapture will start Interval shooting, capturing the specified number of frames at the specified interval. You can capture up to the number of recordable frames displayed in the Shooting-RemoteCapture window (to a maximum of 9999 frames).

Timer Shooting

You can use the timer feature to shoot after a specified number of seconds.

1. In the Save-RemoteCapture window or Shooting-RemoteCapture window, click the [File] menu and select [Timer Shooting].

- The Timer Shooting dialog will display.

2. Set the delay in seconds and click [OK].

- RemoteCapture will start timer shooting, recording an image after the specified delay. You can specify a delay from 2 to 30 seconds.

Precautions when Shooting with RemoteCapture

- If your computer is set to go into standby mode, there is no guarantee that RemoteCapture will continue to function after the computer enters standby mode. Always turn off the standby function before you start shooting with RemoteCapture.
- Please note that the camera will not be able to shoot at the specified interval if it is shorter than the time required to transmit the data and save it on the computer.

Changing the Save Location and Other Preferences

You can change where and how image files are saved.

1. **In the Save-RemoteCapture window or Shooting-RemoteCapture window, click the [File] menu and select [Preferences].**

The Preferences dialog will display.

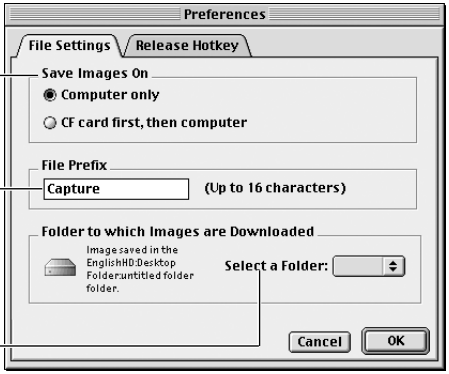
2. **Select the way images are saved and the folder to which they are saved and click [OK].**

• Preferences Dialog

Click an option to determine whether images are saved to the camera's CF card as well as the computer. If you select [Computer only], you can do without a CF card in the camera or continue to record images after the CF card is full.

Input a root name here. If you input "Capture", for example, the first image will be named [Capture_00001.jpg] and successive images will automatically be assigned a name one digit higher than the last.

Select a folder for saving images.



How to Display the Subject in the Camera's LCD Monitor (Not supported by some camera models)

You can view the subject you are shooting in the camera's LCD monitor.

1. In the Shooting-RemoteCapture window, click the [File] menu and select [Camera Display Settings].

The Camera Settings dialog will display.

2. Select [Camera's LCD monitor] and click [OK].
3. In the Shooting window, click the [Viewfinder On] button.

If you select [Video Out Terminal] instead, you can view the subject on a TV monitor. Please see the *Camera User Guide* to learn how to connect to a TV.

Printing an Index of the Thumbnail Images

If you select images in the Thumbnail View area of Save-RemoteCapture window, you can print them in an index like a contact sheet.

1. Select the images, click the [File] menu and select [Print Index].

The file name and shooting date are printed along with each image in the index, providing a convenient record and means of checking your images.

Loading Images into Plug-In Compliant Programs

This topic explains how to load images into Adobe Photoshop LE.

- Please refer to the Adobe Photoshop LE Help file for detailed procedures regarding the program.
- The bundled programs, ArcSoft PhotoImpression and ArcSoft VideoImpression, are not plug-in compliant and cannot be used to start the Plug-in Module and load images.

Loading Images into Adobe Photoshop LE

- To load images into Adobe Photoshop LE, the Plug-in Module and Adobe Photoshop LE must be correctly installed onto the computer. For installation instructions, please see "Installing/Uninstalling the Software" (p. 74).

Copy the Plug-In Module into the Adobe Photoshop [Plug-Ins] Folder

1. **Double-click the folder in which you installed the program, followed by the [Canon Utilities] and [Camera Plug-In] folders to open them.**

2. **Copy the [Canon Camera Plug-In 4] file to the Adobe Photoshop [Import/Export] folder.**

Starting Adobe Photoshop LE

USB Connection

1. **Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminal. Prepare the camera for communication with the computer.**

- For USB interface connection instructions, see "Connecting to a USB Port" (p. 16).
- ImageBrowser will start and open the ImageBrowser Automation Wizard dialog.

2. **Click the [Cancel] button.**

- ImageBrowser will appear, but since you do not need it, click the [File] menu and select [Quit] to close it.
- Please see page 79 for instructions for stopping ImageBrowser from starting automatically.

3. **Start Adobe Photoshop LE.**

- Double-click the [Adobe Photoshop 5.0 LE] folder where it was installed, followed by the [Adobe Photoshop 5.0 LE] program icon.

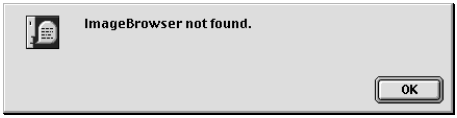
If the "ImageBrowser Not Found" Dialog Appears

This dialog may display if you install the Plug-In Module without installing ImageBrowser, and then connect via the USB interface. Use the following procedures to change the auto start setting for ImageBrowser.

1. Click [OK] on the ImageBrowser Not Found dialog.
2. In the Settings for USB Connection dialog, click the [The application program below will start.] option to clear the check mark.
3. Close the Settings for USB Connection dialog.

This will prevent the ImageBrowser Not Found dialog from appearing the next time the camera is connected.

- You can also open the Settings for USB Connection dialog by clicking the Apple menu and selecting [Control Panels] and [Canon ImageBrowser Auto Launch].



Click here to close the dialog.

Click here to clear the check mark.

CF Card Reader / PC Card Reader Connection

1. **Insert the CF card or loaded PC card adapter into the reader.**

2. **Start Adobe Photoshop LE.**

- Double-click the [Adobe Photoshop 5.0 LE] folder where it was installed, followed by the [Adobe Photoshop 5.0 LE] program icon.

Starting the Plug-In Module and Downloading Images

- The Plug-In Module can only display still images. Start ImageBrowser to download movies to the computer.

Downloading from the Camera

1. Click the Adobe Photoshop LE [File] menu and select [Import] and [Canon Camera Plug-In 4].

2. Click the icon, confirm that [USB Port] and your camera model name are selected and click the [Set] button.

3. Click the [Camera Connection] button.

- The camera's images will display in the Image Display Area.

4. Select the image(s) you wish to download and click the [Transfer Image] button.

- The downloaded image(s) will appear in the Adobe Photoshop LE window.

5. Click the [Quit] button to close the Plug-In Module.

- To save the loaded images, click the Adobe Photoshop LE [File] menu and select [Save As]. Input a file name and change the file location and format settings if necessary.

Downloading from a Card Reader

1. Click the Adobe Photoshop LE [File] menu and select [Import] and [Canon Camera Plug-In 4].

2. Click the [Open Folder] button.

3. Select the folder containing the images and click [OK].

- The images on the CF card will appear as thumbnails in the Thumbnail Display Area.
- Please see page 19 for a description of the CF card file structure.

4. Select the image(s) you wish to load and click the [Transfer Image] button.

- The image(s) will display in the Adobe Photoshop LE window.

5. Click the [Quit] button to close the Plug-in Module.

- To save the loaded image(s), click the Adobe Photoshop LE [File] menu and select [Save As]. Input a file name and change the file location and format settings if necessary.

• The Plug-In Module Window

Communication Settings Button
Click here to adjust communication settings between the camera and the computer.

Play Memo Button
Click here to play a voice memo associated with an image.

Camera Settings Button
Click here to adjust or check camera settings (p. 80).

Preferences Button
Click here to adjust or check image transmission settings or RAW image quality settings (p. 86)

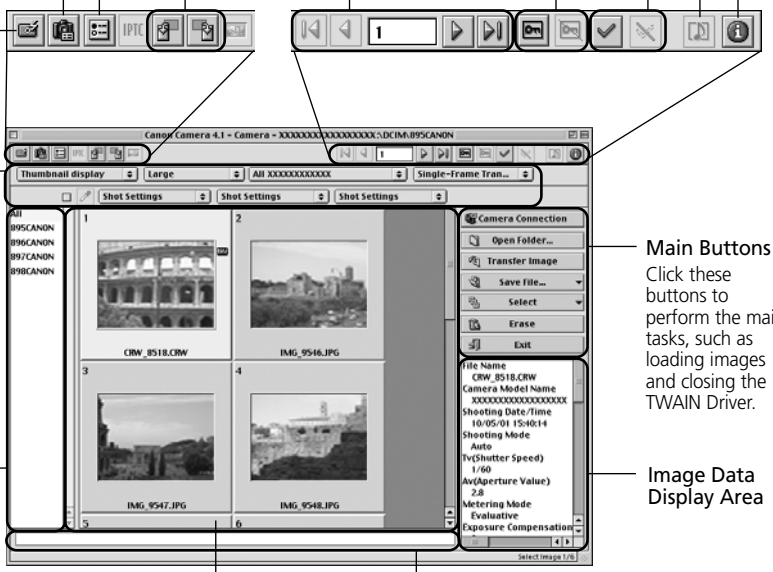
Rotate 90 Degrees Buttons
Click a button to rotate the selected image 90 degrees left or right.

Check Mark On/Off Button
You can choose an image selection method if you press the [Select] button after adding a check mark.

Image Selection Button

Protection On/Off Button

Help Button



Main Buttons
Click these buttons to perform the main tasks, such as loading images and closing the TWAIN Driver.

Image Data Display Area

Display Area for Image Folder Selection

Image Display Area
Images display here when a camera is connected.

Comment Box
Input a comment of up to 120 characters here. (You cannot input a comment while the camera is connected.)

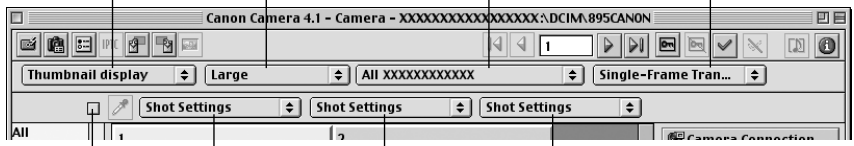
Explained on the next page

Display Mode List Box
Click here to select between the Thumbnail and Preview display modes.

Image Transmission Mode List Box
Click here to select to transmit the selected images as single images or as an index sheet.

Display Size List Box
Click here to select an image display size.

Image Format List Box
Click here to select the format of the images you wish to display.



Click here to adjust the white balance.

Click here to adjust the contrast.

Click here to adjust the color saturation.

Click here to insert a check mark and then select a white portion of the image to automatically adjust the white balance.

Sets the parameters for converting RAW images (may not appear with some camera models).

How to Convert RAW Images with the Plug-in Module

1. Select a RAW image in the Plug-In Module and click the [Transfer Image] button.
   The RAW image will automatically be converted and sent to Adobe Photoshop LE as 8-bits-per-channel data.

- You can change the RAW image conversion settings and image transmission format in the Plug-in Module's main window (p. 99).
- Please note that image attribute settings revert back to the default settings when you close the Plug-In Module.

Using the False Color Filter
Click the Plug-in Module's [Preferences] button to open the Preferences dialog. In the [Conversion Settings] section, you can select whether or not the False Color Filter is used. Remove the check mark from this option if you do not need to reduce the false colors in the image.

Downloading Images with the USB Mounter

The USB Mounter is a driver that allows images on a CF card in a camera to be displayed on the computer screen as if the camera were a drive or a connected card reader. Images can be downloaded to the computer with the same procedures used to copy images from a card reader.

- To enable the USB Mounter, the camera must be handled as if it were a drive like a card reader. Consequently, the following cannot be performed while the USB Mounter is running.
  - ImageBrowser cannot be automatically started when the USB connection is opened.
  - You cannot open a connection to ImageBrowser or the Plug-In Module and adjust camera settings.
  - You cannot shoot with RemoteCapture.
  - In addition, images cannot be deleted from the camera and the computer images cannot be uploaded to the camera.

Enabling the USB Mounter

To download images with the USB Mounter, first enable it with the following procedures.

1. Select [Control Panels] from the Apple menu and [Canon USB Camera Driver].

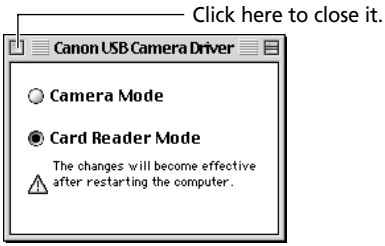
- The Canon USB Camera Driver control panel will display.

2. Select [Card Reader Mode] and close the control panel.

- A dialog prompting you to restart the computer will display.

3. Click [Yes] to restart the computer.

- The USB Mounter will be enabled.



How to Disable the USB Mounter

Disable the USB Mounter when you need to upload images to the camera or shoot with RemoteCapture.

1. Select [Control Panels] from the Apple menu and [Canon USB Camera Driver].
   The Canon USB Camera Driver control panel will display.
2. Select [Camera Mode] and close the control panel.
   After you restart the computer, the USB Mounter will be disabled.

Downloading Images

1. Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminal.

- For USB interface connection instructions, see "Connecting to a USB Port" (p. 16).
- The camera icon will display on the desktop.

2. Double-click the camera icon.

Camera Icon
Your camera model name will appear here.

3. Select the folder containing the images.

- The images on the CF card will display as file icons.
- Please see page 19 for a description of the CF card file structure.

4. Copy images to the computer's hard disk using standard file copying procedures.

- Select images and drag and drop them onto the target folder on the computer to download them.

- Never turn off the power or detach the USB cable while copying. The equipment may not operate correctly.

How to Download Images from ImageBrowser and the Plug-In Module while the USB Mounter is Enabled

When the USB Mounter is enabled, use the card reader downloading procedures in ImageBrowser or the Plug-In Module to download from the camera. See "CF Card Reader/PC Card Reader Connection" (p. 79) for ImageBrowser and "Downloading from a Card Reader" (p. 98) for the Plug-In Module.

How to Convert RAW Images while the USB Mounter is Enabled

1. Double-click the camera icon.
2. Select RAW images in the camera and drag and drop them onto the RAW Image Converter icon.
   RAW Image Converter will start and permit you to convert the images (p. 85).

Saving the My Camera Settings to the Camera

Please check whether or not your camera model supports this function (p. 12).

The start-up image, start-up sound, shutter sound, operating sounds, and self-timer sound are called the My Camera Settings. You can add your favorite images and sounds from your computer to the My Camera Settings in the camera. This topic explains how to upload the My Camera Settings saved onto your computer to the camera. Use ImageBrowser to perform this function.

- For a more detailed explanation, please see the *ImageBrowser Help* menu or PDF manual, *ImageBrowser Software User Guide* (p. 4).

Displaying the My Camera Window

To save the My Camera Settings to the camera, you use the My Camera window. The following explains the procedures for displaying the My Camera window.

1. Attach the supplied USB cable to the computer's USB port and the camera's Digital Terminal.

- For USB interface connection instructions, see "Connecting to a USB Port" (p. 16).

ImageBrowser will start and display the ImageBrowser Automation dialog.

2. Confirm that [Display images] is selected and click the [OK] button.

The Camera Window will open.

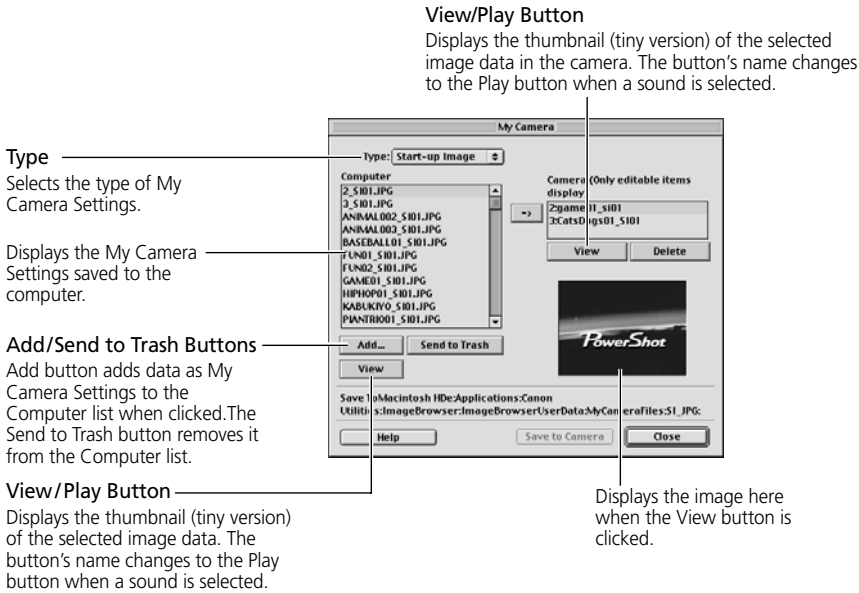
3. Click the [Setup Options] button in the Camera window and select [My Camera] from the displayed menu.

The My Camera window will display.

- ImageBrowser already contains several pre-recorded My Camera Settings items. You can check these items with the My Camera window.

Macintosh

• The My Camera Window



• You can add new data to the My Camera window. See "Adding New Data to the My Camera Window" (p. 106).

Saving the Data to the Camera

You can save the My Camera Settings displayed in the My Camera window to the camera.

- Content that does not appear in the Computer list of the My Camera Data window cannot be saved to the camera.
- Do not detach the USB cable, turn the camera power off, or disconnect the camera from the computer while the My Camera Settings is being saved to the camera.

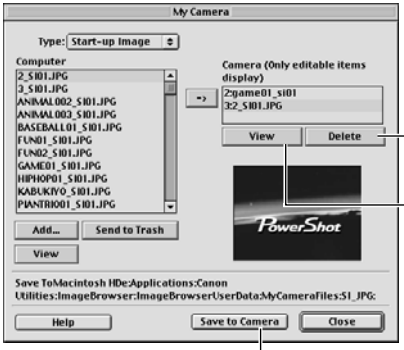
1. Select a data type from the [Type] menu in the My Camera window.

2. Select the data you wish to save to the camera from the [Computer] list.

- If you select a start-up image file in the Computer list, the image thumbnail (tiny version) will appear on the right of the window when you click the [View] button. If you select a sound in the Computer list, the sound will play when you click the [Play] button.

3. Select the settings in the Camera list that you wish to change and click the button.

- The Camera list contents are replaced by the specified data. If the data has previously been added, it will be overwritten.



Delete Button
Deletes data added to the Camera list.

View / Play Button
Displays image data or plays sound data in the Camera list.

Save to Camera Button
Saves the My Camera Settings to the camera.

- The names of the prepared files for the various My Camera Settings (start-up image, start-up sound, shutter sound, operating sounds and self-timer sound) all begin with the same root name ("ANIMAL~," "BASEBALL~," etc.). If you select the settings that start with the same name after they have been saved to the camera, you can select settings with a common theme.

4. Repeat steps 1-3 to replace all the contents you wish to add to the camera.

5. Click the [Save to Camera] button.

- Settings in the Camera list will be saved to the camera.

6. Click the [Close] button to close the window.

- This concludes the process for saving the My Camera Settings to the camera.

To use this data on the camera, change the start-up image and sound settings on the camera itself. Please see the *Camera User Guide* for instructions for these procedures.

Adding New Data to the My Camera Window

To add new data to the My Camera Window, you need to create the new data, save it to the computer and add that file to the My Camera window.

Create New Data before Adding to the My Camera Window

Start by creating the start-up image or sound and saving it to the computer.

Creating a Start-Up Image

Create an image using an image editing application program, such as ArcSoft PhotoImpression or Adobe Photoshop LE. Create the file in the JPEG format at a size of 320 x 240 pixels.

Creating a Sound

Record a sound using a sound recorder, such as SimpleSound, which is commonly bundled with Macintosh computers. Record the sound as a 11.025 KHz or 8.0000 KHz, 8 bit, mono sound and save it in the WAV format.

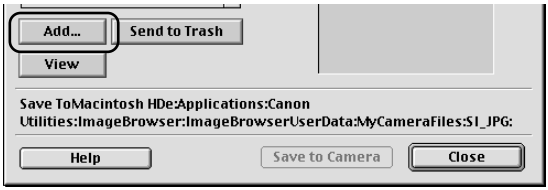
Type	Duration in Seconds	
	11.025 kHz	8.000 kHz
Start-Up Sound	1.0 sec. or less	1.3 sec. or less
Shutter Sound	0.3 sec. or less	0.4 sec. or less
Operating Sound	0.3 sec. or less	0.4 sec. or less
Self-Timer Sound	2.0 sec. or less	2.0 sec. or less

- Please note that files not meeting the above criteria cannot be saved to the camera.

- If you are using SimpleSound, which comes as a standard part of the Mac OS, you cannot save a sound file directly as a WAV file. First, record and save the sound with SimpleSound, then use a program such as ArcSoft VideoImpression to convert the sound into a WAV file.
- To learn how to create a sound file, see the *ImageBrowser Software User Guide* (p. 4), a PDF file.

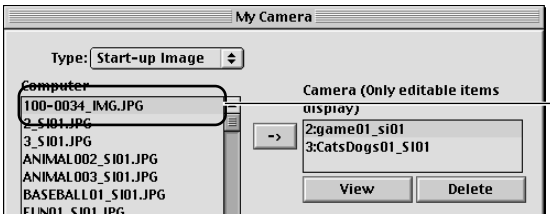
Once you have created the data and saved it to the computer, use the following procedures to add it to the My Camera window.

1. Open the My Camera window, and click the [Add] button.



2. Select the file you created in the Open file dialog and click the [Open] button.

- The selected file will appear in the Computer list.



The newly added data will appear here.

This concludes the process for adding new data.

You can save the newly created data to the camera using the procedures described in the "Saving the Data to the Camera" section (p. 104).

- To delete a data file, select it and click the [Delete] button.

Macintosh

Troubleshooting
(Windows / Macintosh)

This topic explains some of the causes for and solutions to problems with the software.

Can't download images, camera is not recognized or the Event dialog does not display (Windows only) when the camera is connected via the USB interface.

Computer doesn't support the USB interface.

The USB interface is not supported for computers not in compliance with the following requirements. Acquire the necessary system to use the USB interface.
Requirements
- Built-in USB interface on a system preinstalled with one of Windows 98/Windows Me/Windows 2000/Windows XP.
- Genuine Apple Computer brand computer with a built-in USB interface.

Camera is not correctly connected to the computer.

Read "Connecting the Camera to a Computer" (p. 15) and check the connection. Ensure that you are using the correct cable and that its connectors are in good shape.

Insufficient battery charge.

If you are powering the camera with a battery pack, ensure that the charge is sufficient. You should power the camera with a household power source while it is connected to the computer.

USB Driver is not installed properly. (Windows only)

First uninstall the USB Driver and then reinstall it. To learn how to uninstall it, see "Uninstalling the TWAIN Driver/WIA Driver" (p. 32). To learn how to install it, see "Installing the TWAIN Driver/WIA Driver" (p. 25).

ZoomBrowser EX displays a database file related error message (E_Fail error, etc.) (Windows only)

ZoomBrowser EX database file may be corrupted.

Please restore the database using the procedures described in the "Troubleshooting" section of the PDF manual, *ZoomBrowser EX Software User Guide*. You can display the *ZoomBrowser Software User Guide* from the installer panel of the Canon Digital Camera Solution Disk.

CUSTOMER SUPPORT

Canon Customer Support

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146-8501, Japan

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

Canon Canada Inc.
Tel (Canada): 1-800-OK-CANON (1-800-652-2666)
(24 hours/day, 7 days/week)

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Fax No.: 08705 143 340

Canon Communication & Image France S.A.
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Fax: 01.41.99.79.50

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Help Desk: 0600 0 22606 (14,80 mk/min+pvm)
Help Desk: 0600 0 22666 (enint. 40mk/puhelu+pvm)
Sähköposti: helpdesk@canon.fi

Canon (Schweiz) AG
Tel. 01-835-6161, Fax 01-835-6526
Hotline 0900 57 55 20

Canon Svenska AB
Helpdesk: 08-7448620

Austria

Canon GmbH
Zetschegasse 11, A-1230 Wien Vienna
Helpdesk Tel: 01 66 146 412 Fax: 01 66 146 308

OCEANIA

Canon Australia Pty. Ltd.
Info-Line: (02) 9805 2864
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Canon New Zealand Ltd.
Info-Line: 0900-522666
www.canon.co.nz

ASIA

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Kowloon, Hong Kong
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Adobe Customer Support

Adobe Systems Inc. technical support information is available in the PDF file format on the supplied CD-ROM.

PDF File Location and Opening Instructions

Windows: Place the Adobe Photoshop LE CD-ROM in the drive and double-click the [My Computer] icon on the Windows desktop, followed by the [Photosle] CD-ROM icon. The window will show folders with language names. Double-click the appropriate language folder and the [Support.pdf] file within it.

Macintosh: Place the Adobe Photoshop LE CD-ROM in the drive and double-click the [Adobe Photoshop LE] icon on the desktop. Double-click the appropriate language folder from among those displayed, followed by the [Support.pdf] file.

- To read PDF files, Adobe Acrobat Reader must already be installed on your computer. An installer for this program is on the Adobe Photoshop LE CD-ROM within each language folder in a folder labeled [Acroread].

ArcSoft Customer Support

North America

46601 Fremont Blvd., Fremont, CA 94538
Tel: (510) 440-9901 (Mon. - Fri., 8:30 AM - 5:30 PM PST)
E-mail: support@arcsoft.com

Other Regions

Please see the ArcSoft web site: http://www.arcsoft.com/maininternational.html.