

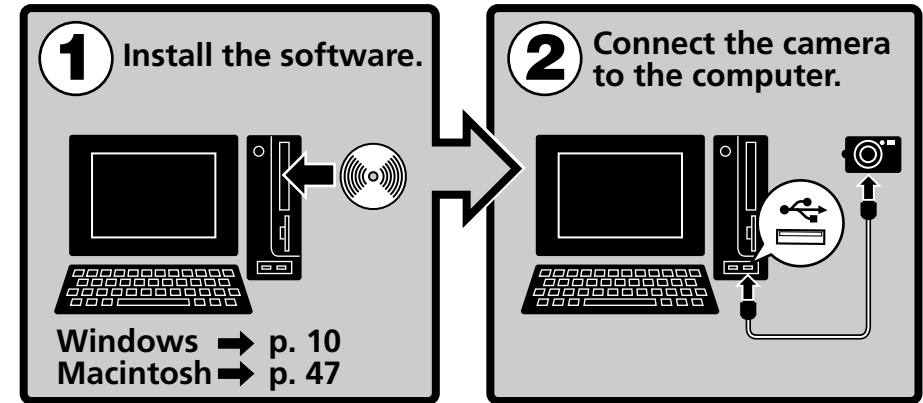


Canon

Software Starter Guide

(For the Canon Digital Camera Solution Disk Version 16/17)

You must install the software bundled on the Canon Digital Camera Solution Disk before connecting the camera to the computer.



Canon

- This guide explains how to install the software programs and briefly introduces their functions and operating procedures.
- Please read the software license agreement in this guide before using the software. By using the software, you agree to be bound by the terms of the agreement.

Exif Print



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⚠ Warnings This symbol indicates topics that could lead to death or serious injury if ignored or handled incorrectly.

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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>.

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Using the PDF Manuals

The following PDF-format manuals (hereafter PDF manuals) are provided to explain the features and procedures for using ZoomBrowser EX and ImageBrowser.

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



Adobe Reader or Adobe Acrobat Reader must be installed to read the aforementioned PDF manuals. If one of these applications is not already installed on your computer, download it from the following website.

<http://www.adobe.com/products/acrobat/readstep2.html>

Viewing PDF Manuals

Viewing Manuals Downloaded from a Website

These PDF-format manuals are available on the Canon website. Use your browser program to download these manuals from the following URL:

<http://web.canon.jp/Imaging/information-e.html>

Read This First

This chapter explains what you can accomplish using the camera with the software contained on the Canon Digital Camera Solution Disk.

It also lists the computer system configurations required to use the software.

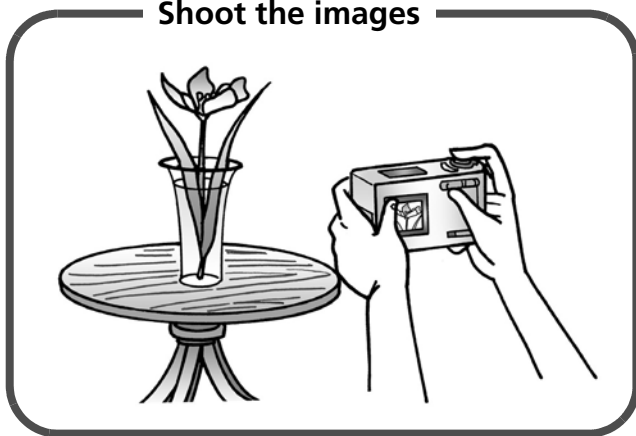
About this Guide

- The explanations in this guide are based on Windows XP and Mac OS X v10.2. If you are using another version of these operating systems, the actual screen contents and procedures may vary slightly from those shown.
- This guide uses the following notations on the right to represent the items on the left.

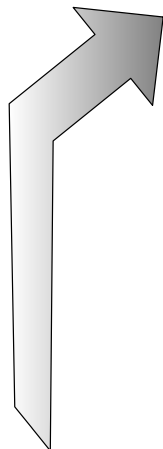
Mac OS X (v10.1/v10.2)	->	Mac OS X
Mac OS 9.0 - 9.2	->	Mac OS 9
CF Card, SD Card, PC Card	->	Memory Card

It's so Simple! Make Prints Right at Home Like a Pro

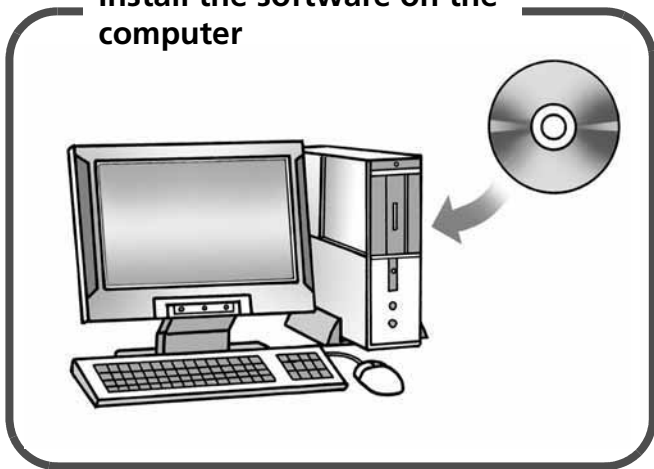
Shoot the images



See your *Camera User Guide* for shooting instructions.



Install the software on the computer



Just install the software once at the beginning.

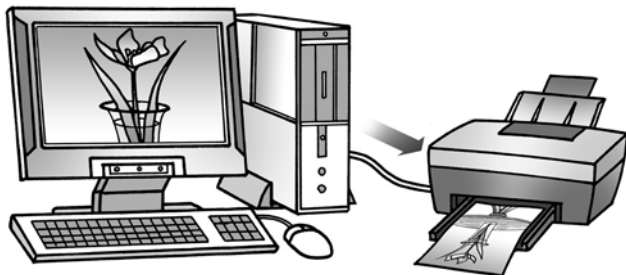
Connect the camera to the computer



Download images to the computer



Print the images

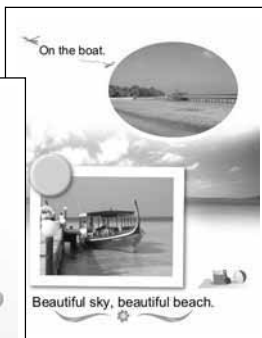


Unbounded Possibilities with Entertaining Software

Print a Variety of Layouts

Print with the diverse layouts available in PhotoRecord (Windows) and ImageBrowser (Macintosh). The examples shown are from PhotoRecord (Windows).

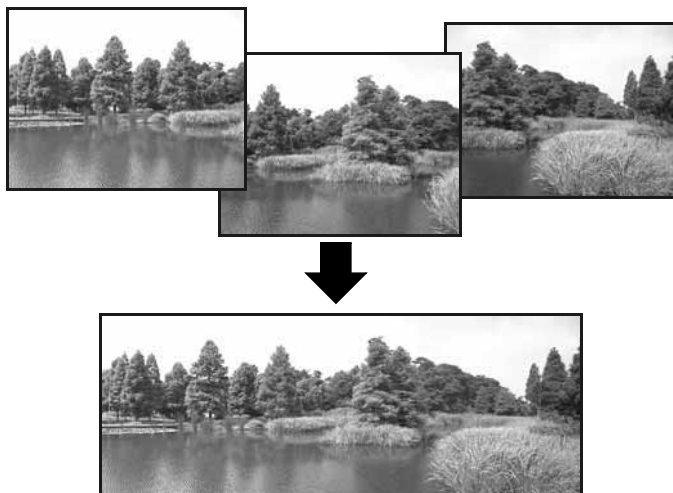
Make your own photo album of precious moments.



Confirm all your images in one glance with index (contact sheet) printing.

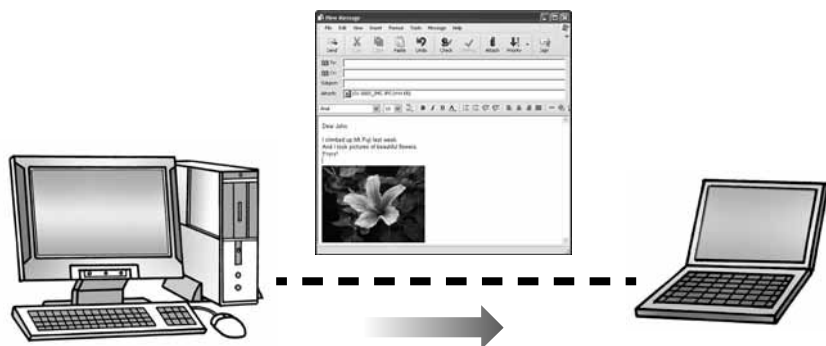
Stitch a Panorama Together

Create a panoramic image from a series of images with PhotoStitch.



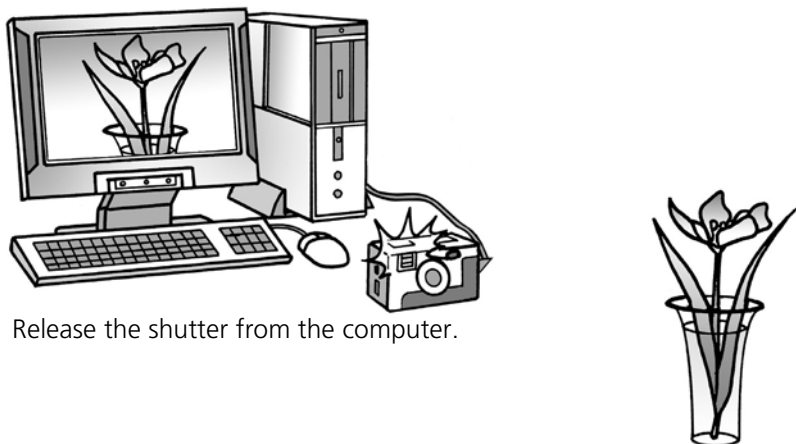
Send an Image as an E-mail Attachment

Attach an image to an e-mail message by starting your mail software from within ZoomBrowser EX (Windows) or ImageBrowser (Macintosh).



Operate the Camera Shutter from the Computer

Release the camera's shutter from the computer with ZoomBrowser EX (Windows) or ImageBrowser (Macintosh). The recorded image is saved directly to your computer.



Release the shutter from the computer.

Edit a Movie


You can create and edit movies: link movies and stills that have been downloaded to your computer, add background music, superimpose titles and other text, and apply various effects to the movies.

Convert a RAW Format Image

RAW images are extremely high-quality images that are free of the resolution loss associated with compression processing. However, since RAW images are created with a special image format, it is necessary to convert them to standard image file formats, such as TIFF or JPEG. You can make fine adjustments to the image quality and coloration when they are converted.

System Requirements

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

- 
- A CD-ROM drive is required to install the software.
 - All procedures performed with a connection to a USB 2.0 compliant board are not guaranteed.
 - A sound card is required to play movie file audio tracks under Windows.
 - Although the Macintosh version of the software is compatible with Mac OS X (v10.1/v10.2), it cannot be used with disks formatted with the Unix File System (UFS).

Windows

OS	Windows 98 (First or Second Edition) Windows Millennium Edition (Windows Me) Windows 2000 Windows XP (Home Edition, Professional)
Computer Model	The above OS should be pre-installed on computers with built-in USB ports.
CPU	Windows 98/ Windows Me/ Windows 2000: Pentium 150 MHz or higher processor Windows XP: Pentium 300 MHz or higher processor For all of the above OSs: Pentium 500 MHz or higher processor is recommended (for editing movies)
RAM	Windows 98/ Windows Me/Windows 2000: 64 MB or more Windows XP: 128 MB or more For all of the above OSs: 128 MB or more is recommended (for editing movies)
Interface	USB
Free Hard Disk Space	<div><div>• Canon Utilities</div><div><div>- ZoomBrowser EX:</div><div>200 MB or more</div></div><div>(Including the PhotoRecord printing program)</div><div><div>- PhotoStitch:</div><div>40 MB or more</div></div><div>• Canon Camera TWAIN Driver:</div><div>25 MB or more</div><div>• Canon Camera WIA Driver:</div><div>25 MB or more</div></div>
Display	800 x 600 pixels/ High Color (16 bit) or better is required 1,024 x 768 pixels or better is recommended

Macintosh

OS	Mac OS 9.0 - 9.2, Mac OS X (v10.1/v10.2)
Computer Model	The above OS should be pre-installed on computers with built-in USB ports.
CPU	PowerPC
RAM	Mac OS 9.0 - 9.2: 64 MB or more of application memory Mac OS X (v10.1/v10.2): 128 MB or more
Interface	USB
Free Hard Disk Space	<ul style="list-style-type: none"> • Canon Utilities <ul style="list-style-type: none"> - ImageBrowser: 120 MB or more - PhotoStitch: 30 MB or more
Display	800 x 600 pixels/ 32,000 Colors or better is required 1,024 x 768 pixels or better is recommended

Using the Software on the Windows Platform – Preparations

This chapter explains the basic procedures for installing the software and connecting the camera to a computer. Read this material before you connect the camera to the computer.

Installing the Software and USB Driver

Start by installing the software from the Canon Digital Camera Solution Disk.



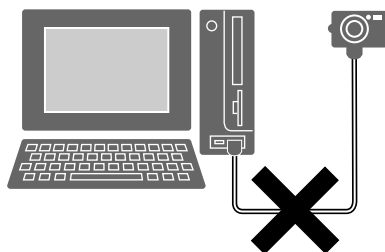
- You must install the software before you connect the camera to the computer.
- Users of Windows XP and Windows 2000 must first log in as an Administrator (computer system administrator) to install programs.

Items to Prepare

- Your camera and computer
- Canon Digital Camera Solution Disk
- Interface cable supplied with the camera

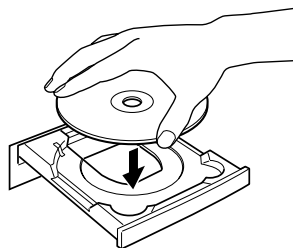
Installation Procedures

- 1** Confirm that the camera is **NOT** connected to the computer.
If it is, disconnect the cable. The software cannot be properly installed if the camera is connected to the computer at the start.
- 2** Close any programs that are running.



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

If the installer panel does not appear automatically, use the following procedures.




How to Display the Installer Panel

Use the following procedures to display the installer panel if it does not appear automatically.

Windows XP

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

Windows 2000, Windows Me, Windows 98

1. Double-click the [My Computer] icon on the desktop.
 2. Right-click the CD-ROM icon and select [Open].
 3. Double-click the [Setup.exe]  icon.
- (Some computers may not display the [.exe] file name extension as shown above.)

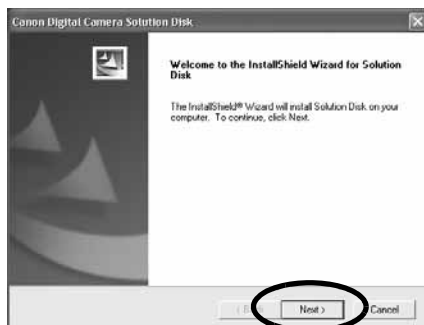
- 4** Click the Digital Camera Software [Install] button.



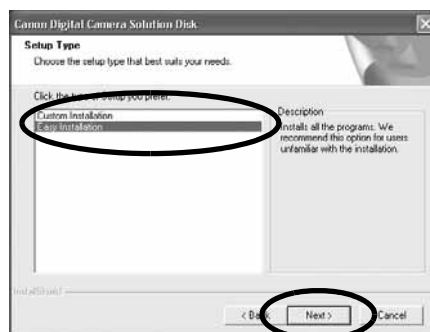
Installer Panel



Follow any instructions to restart your computer, if they appear. If the following window appears, continue with the installation.

5 Click [Next].**6** Select [Easy Installation] as the setup type and click [Next].

Select [Custom Installation] to select programs individually for installation.

**When [Custom Installation] is Selected**

The USB driver (the software for connecting) is required when the camera is connected to the computer with an interface cable. Ensure that you select a USB driver from below (the appropriate one for your operating system).

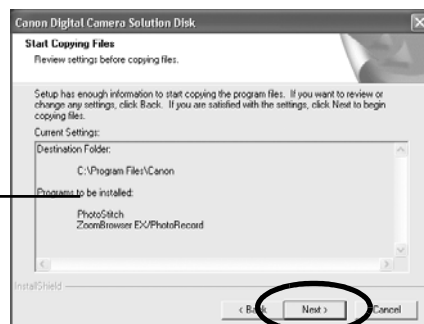
- Windows 2000/Windows 98: Canon Camera TWAIN Driver
- Windows Me: Canon Camera WIA Driver

With Windows XP, the USB driver supplied with the Windows operating system is used so there is no need to install a USB driver.

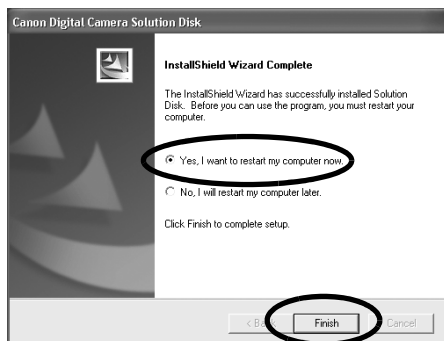
7 Read the software license agreement and click [Yes] if you consent to all the conditions.**8** Review the installation settings and click [Next].

Follow the onscreen instructions to proceed.

The items displayed here differ according to the software installed.

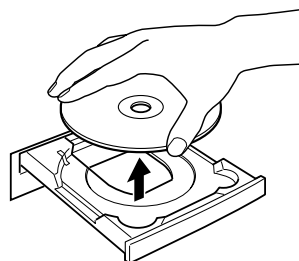


- 9** When the installation is over, select [Yes, I want to restart my computer now.] and click [Finish].



Users of Windows XP and Windows 2000 must log in as an Administrator (computer system administrator) after restarting to carry out the subsequent procedures.

- 10** Remove the disk from the CD-ROM drive when your normal desktop screen appears after restarting. This concludes the software installation. Continue by connecting the camera to the computer so that the USB driver can be utilized.

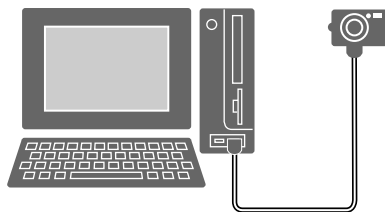


If you installed a USB driver, so far the required files have only been copied to your computer. You must now connect the camera to the computer with the interface cable to complete the installation and prepare the driver for use.



See *Uninstalling the Software* (p. 79) to delete the installed programs.

- 11** Attach the camera to the computer with the interface cable and set it to the correct mode for connecting.



Procedures for attaching the camera to the computer and placing it in the correct mode for connecting vary between camera models. See *Information about Your Camera* (p. 92).

The USB driver will automatically finish installing onto the computer when you attach the camera and open a connection. Dialogs similar to the following ones will appear during this process (first connection only).

Windows XP

The dialog on the right will appear after a few moments and the USB driver supplied with the Windows operating system will automatically install.



Windows 2000/Windows Me/Windows 98

A window such as the Add New Hardware Wizard will appear after a moment.

Restart the computer according to the instructions if you are prompted to do so by a message.

A dialog allowing you to set the default settings will display after installation. See *Using the Software on the Windows Platform — The Basics* (p. 15) for the subsequent procedures.



- See *USB driver installation not proceeding well* in the *Troubleshooting* section (p. 83) if you are having problems installing the USB driver.
- See *Uninstalling the USB Driver* (p. 79) to delete the USB driver installed with these procedures.
- See *If You Were Using ZoomBrowser EX Version 2 or 3* (p. 91) if you were previously using either version.

This concludes the software and USB driver installation and the procedures for connecting the camera to the computer.

You may now download camera images to the computer (p. 15).

Using the Software on the Windows Platform – The Basics

This chapter explains the procedures for using ZoomBrowser EX to download the camera's images to the computer and print them.

Read this chapter after completing the preparations in the *Using the Software on the Windows Platform – Preparations* section.

Downloading Images to the Computer

Begin by starting up ZoomBrowser EX and downloading images to your computer. The startup procedures vary slightly according to whether you are connecting the camera to the computer or using a memory card reader.



- See *Information about Your Camera* (p. 92) to confirm whether your camera model supports the Direct Transfer function.
- You can change the settings for the images to be downloaded and the downloading destination by clicking the [Camera] menu in ZoomBrowser EX's main window and selecting [Auto-download setting].
- You can also display an index of the camera or memory card images to check them before downloading or download them selectively. For instructions, see *Checking Images before Downloading* (p. 26).



A window stating that the server is busy may display while images are downloading. If this happens, wait a moment and click the [Retry] button (p. 90).

Camera to Computer Connection

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



Procedures for attaching the camera to the computer and placing it in the correct mode for connecting vary between camera models. See *Information about Your Camera* (p. 92).

Perform the following settings the first time you connect the camera to the computer.

These procedures are not required from the second time onward.

1. Select [Canon CameraWindow] when a dialog (Events dialog) similar to that on the right displays and click [OK].

Your camera model name or "Canon Camera" will appear here.



If the Events dialog fails to display, click the [Start] menu and select [Programs] or [All Programs], followed by [Canon Utilities], [CameraWindow], and [CameraWindow Set Auto-Launch]. Proceed to Step 2.



A dialog allowing you to select the camera model will display if a camera and a memory card reader are connected at the same time. Confirm that your model name or "Canon Camera" is displayed and click [OK].

2. Click [Set].
You must repeat Steps 1 and 2 above the next time you connect when you select the Don't Set option.



2 Download the images.

Use the computer or camera to download images described as follows.

The window may appear slightly different with some camera models.

You can confirm information such as the destination folder for images.



Using the Computer to Download Images

Click [Start Image Download].



All the images that have not yet been downloaded will download according to the default setting.

Using the Camera to Download Images (Direct Transfer Function)



If your camera supports the Direct Transfer function, the Print/Share button (🖨️➡️) will light up, and a Direct Transfer menu like that shown below will appear on the LCD monitor. See *Information about Your Camera* (p. 92) to confirm whether your camera model supports the Direct Transfer function.



Since sound memos cannot be downloaded using a camera operation, click [Download images to computer] to download sound memos.

Set the Direct Transfer settings with the camera.



- See the *Camera User Guide* for instructions regarding Direct Transfer settings and procedures.
- You cannot use the camera's Print/Share button to download when it is not lighted.

The camera images download to the computer. The downloaded images are saved into folders according to the shooting date.

When downloading is complete, the thumbnails (tiny versions) of the downloaded images display in ZoomBrowser EX's main window.

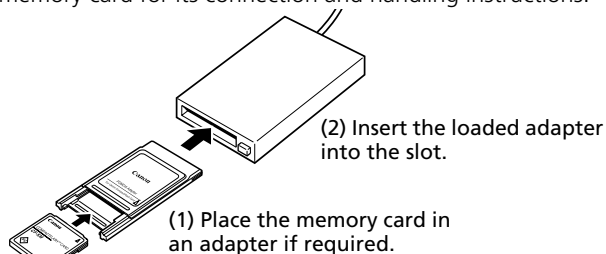


Thumbnail

Next, print out the images (p. 19).

Memory Card Connection

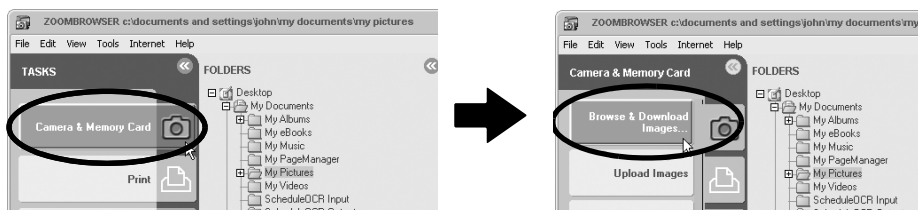
- 1 Insert the memory card into the reader.
Use a separately sold card adapter (PCMCIA adapter) if required.
See the manual for the memory card for its connection and handling instructions.



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



- 3 Click [Camera & Memory Card], followed by [Browse & Download Images].



A selection dialog will appear if multiple memory card readers loaded with memory cards are connected or if a camera and memory card reader are connected. Select one device and click [OK].

- 4 Click [Start Image Download] when the Download image window opens.

You can confirm information such as the destination folder for images.



The memory card images download to the computer. The downloaded images are saved into folders according to the shooting date.

When the download is complete, the thumbnails (tiny versions) of the downloaded images display in ZoomBrowser EX's main window.



• See *Memory Card Folder Structure* (p. 82) for information about memory card folder structures and file names.

Next, print out the images.

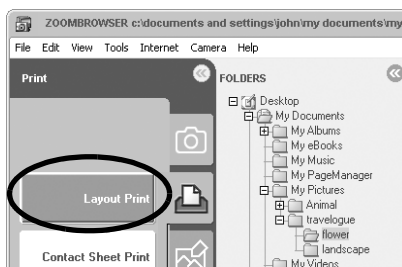
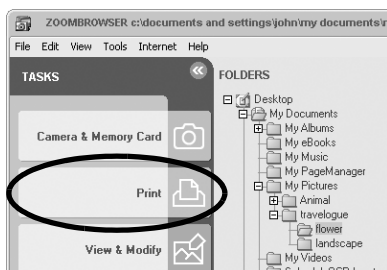
Printing Images

This section explains the basic procedures for using PhotoRecord, a printing utility program. See the program's [Help] menu for more details.



- Movies cannot be printed.
- With images shot by Exif 2.2 (called Exif Print) compatible cameras, shooting information such as the shooting settings and mode can be included with the images. This data is then used to correct the images to obtain better prints.
- PhotoRecord automatically carries out image correction (as a default setting) with both images shot with Exif 2.2 compatible cameras and other images, yielding high-quality prints.

- 1 Click [Print] in the main window, followed by [Layout Print].



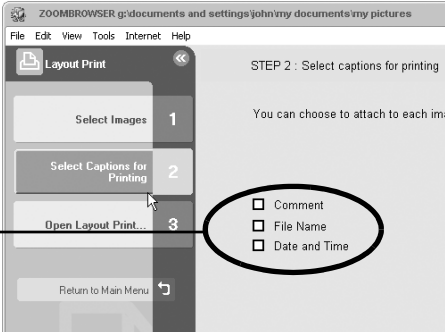
- 2 Select an image to print and click the [Next] button at the window's bottom right.




The background color of the selected images will change to orange.

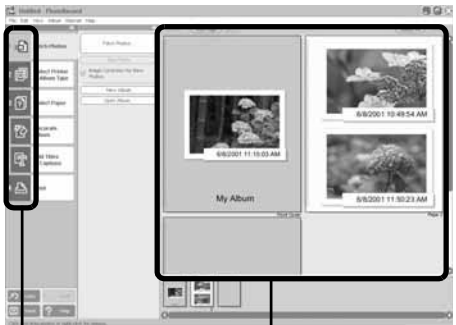
3 Place a check mark beside the data you wish to include with the print (multiple selections are possible) and click [Finish].

For example, you can print the shooting date and time with the image if you select [Date and Time] here.



 To add a comment to an image, select it in ZoomBrowser EX and click [Properties].

PhotoRecord will start, displaying the selected image and the information selected in Step 3 in the Album window. In addition, the steps that will take you through the printing process will display on the left side. Follow the steps in order to proceed.



Album Window
The selected images display here.

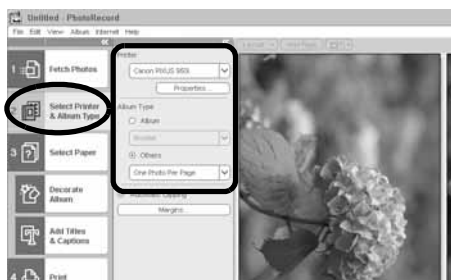
The printing procedures display here.

The next steps differ according to whether you select Full Page Print (one image per page) or Layout and Print (multiple images arranged on one page).

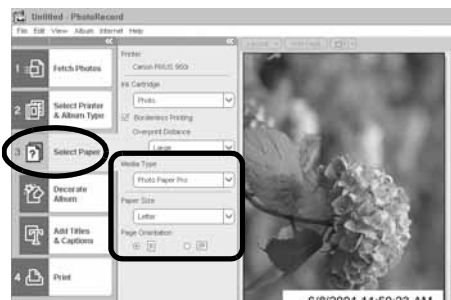
Full Page Print

This option prints one image per page.

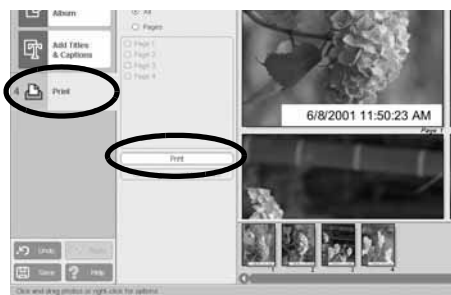
- 1 Click [2 Select Printer & Album Type]. Once you have chosen a printer, select [Others] in the Album Type category, followed by [One Photo Per Page].



- 2 Click [3 Select paper] and select the paper size and orientation.



- 3 Click [4 Print], confirm the number of copies and other printing settings, and click [Print].



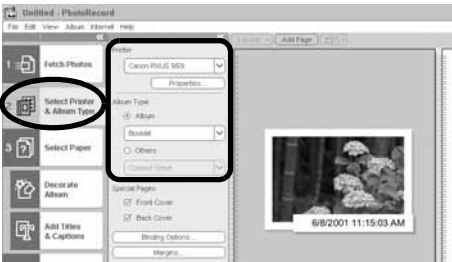
This will initiate printing.

To close PhotoRecord after printing is complete, click . Click [Yes] to save the album or [No] to close it without saving. The ZoomBrowser EX window will reappear when the save procedure is complete.

Layout and Print

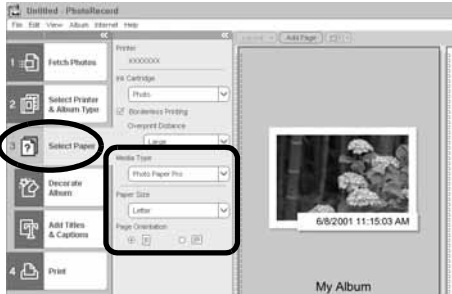
This option prints multiple images on a single page as in a photo album.

- 1 Click [2 Select Printer & Album Type]. Once you have chosen a printer, select an album type.



Booklet: creates a margin at the left side so the album can be bound
Simple Album: creates equal margins on both sides
You can also change the margins by clicking [Margins].


- 2 Click [3 Select paper] and select the paper size and orientation.



- 3 Click [Decorate Album] and change the design of the image background and border as required.

Click the [Themes], [Backgrounds], [Photo Frames], [Text Frames] or [Clipart] button to switch between selections.



Perform the procedures according to the instructions beside the  symbol.



- The [Themes] category provides consistent designs for use throughout an entire album.
- You can also click [Add Titles & Captions] to add text as a title or caption.

- 4** Click [4 Print], confirm the number of copies and other printing settings, and click [Print].



This will initiate printing.

To close PhotoRecord after printing is complete, click . Click [Yes] to save the album or [No] to close it without saving. The ZoomBrowser EX window will reappear when the save procedure is complete.

Printing a Contact Sheet

If you click [Print] in the main window (p. 19) and select [Contact Sheet Print] instead of [Layout Print], you can print image thumbnails along with the Exif data* (shooting information).

* There is a difference between the shooting information shown in ZoomBrowser EX and the Exif information that can be printed with PhotoRecord.

This chapter explained the ZoomBrowser EX basics. Once you have mastered them, read the following chapter to try the advanced techniques.

Using the Software on the Windows Platform — Advanced Techniques (p. 24).



- A PDF-format manual for ZoomBrowser EX is also available. It provides further information about the program's features and procedures. See *Using the PDF Manuals* (p. 2).

Proceed to this chapter once you have mastered the basic ZoomBrowser EX procedures in the *Using the Software on the Windows Platform – The Basics* chapter.

The ZoomBrowser EX Windows

ZoomBrowser EX has two windows: the Main Window and the Camera Window.

Main Window

This window can be used for more than just organizing downloaded images. For example, you can use it to print images or attach them to e-mail messages.

Folders Area

You can view folder contents here just like in Windows Explorer.

Function Buttons

These buttons apply functions to images selected in the Browser Area.



Task Buttons

These buttons select the task to carry out.

Browser Area

Displays the images contained in the folder selected in the Folders Area. Double-clicking an image shows it at a larger size.



You can change the zoom speed for images displayed in the Browser Area. Click the [Tools] menu, select [Preferences] and slide the [Zooming] lever.

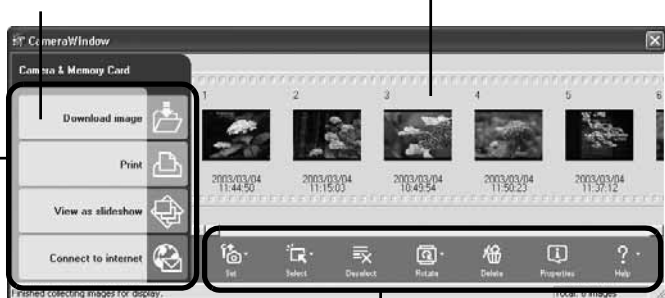
Camera Window

This window can be used to view images in the camera (or memory card) and download the images to the computer as you confirm them.

A window allowing you to specify the download destination opens when you select images and click the [Download image] button.

The images from the camera (or memory card) display here.

Task Buttons
These buttons select the task to carry out.



Function Buttons
These buttons apply functions to images selected in the Camera Window.



ZoomBrowser EX comes with a function that rotates, downloads and displays images, shot vertically or horizontally, in their correct viewing orientation. (Rotating images does not affect image quality)

Only the rotated image is saved to the computer with the following camera and image settings.

- When JPEG images are shot with the camera's [Auto Rotate] function set to [On].
- When JPEG images are rotated with the camera's manual rotation settings.
- When JPEG images are rotated in the Camera Window

To download both the pre-rotation and post-rotation images, click the [Tools] menu in ZoomBrowser EX's main window and select [Preferences], followed by the [Rotation] tab. Place a check mark beside [Rotate a copy of the JPEG image].

Checking Images before Downloading

You can check camera or memory card images in the Camera Window before processing them. You can also choose to download only the images you select in the Camera Window.

1 Display the Download Image window.

To download images from a camera, follow Steps 1-2 in the *Camera to Computer Connection* section (p. 15).

To download images from a memory card, follow Steps 1-3 in the *Memory Card Connection* section (p. 18).

2 Click [List Images].

The window may appear slightly different with some camera models.



The Camera Window shows thumbnails (tiny versions) of the camera or memory card images.



RAW will appear beneath the thumbnails of RAW format images.

The movie icon displays on movie thumbnails. Thumbnail

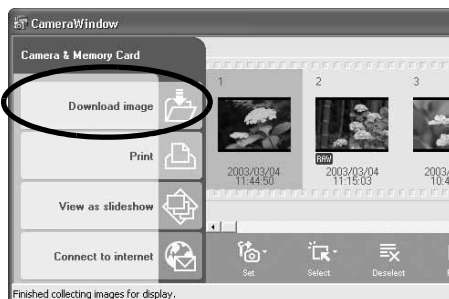
3 Click on images in the Camera Window that you wish to download.

The background color of the selected images will change to orange.



If you are downloading images previously selected with the camera's [Transfer Order] setting, click [Select] and select [Select Send mark].

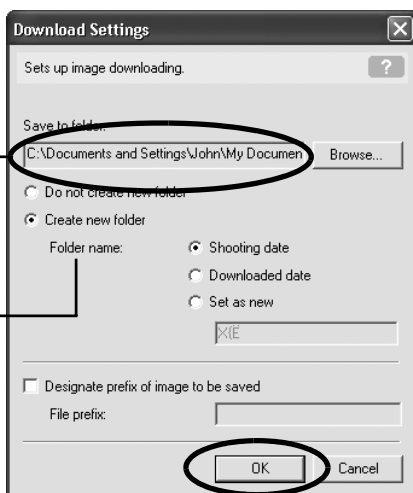
- 4** Click [Download image].



- 5** Confirm the destination folder and click [OK].

Specify the destination folder for the image(s).
(You can change the destination folder by clicking [Browse] and selecting a new destination.)

Select [Create new folder] to create a new folder within the one specified above, and select a naming option.



The downloaded images will appear in the main window.



Other Methods of Downloading Images to the Computer

There is no need to install ZoomBrowser EX with either method.

* Windows XP (Installation of USB Driver Not Required)


Your camera uses a standard image transfer protocol called the Picture Transfer Protocol (PTP). With the PTP and Windows XP, all you need do is connect the camera to the computer with an interface cable to download images. It is easy using the Scanners and Cameras Wizard and other procedures. However, there are some inconveniences and limitations to this downloading method. See the *For Windows® XP and Mac OS X Users* leaflet for details.

* Windows Me (with the USB driver installed)

It is easy to download images using the Scanners and Cameras Wizard or Windows Explorer. All you need do is connect the camera to the computer with an interface cable.

See the Windows Help system for information about the Scanners and Cameras Wizard and Windows Explorer.

Replaying Movies

- 1** Double-click an image with a movie icon in ZoomBrowser EX's Browser Area.
QuickTime Player will start.
- 2** Click the play button  in QuickTime Player.
The movie will replay.



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 through the [Start] menu and open the file using the QuickTime Player [File] menu.

Installation Procedures for QuickTime

1. Set the Canon Digital Camera Solution Disk in the CD-ROM drive.
The installer panel will automatically appear. (Display it with the procedures in *How to Display the Installer Panel* (p. 11) if it does not appear.)
2. Click the QuickTime 6.3 [Install] button.



Follow the onscreen instructions to proceed with the installation.

Editing Movies

You can create and edit movies: link movies and stills that have been downloaded to your computer, add background music, superimpose titles and other text, and apply various effects to the movies.



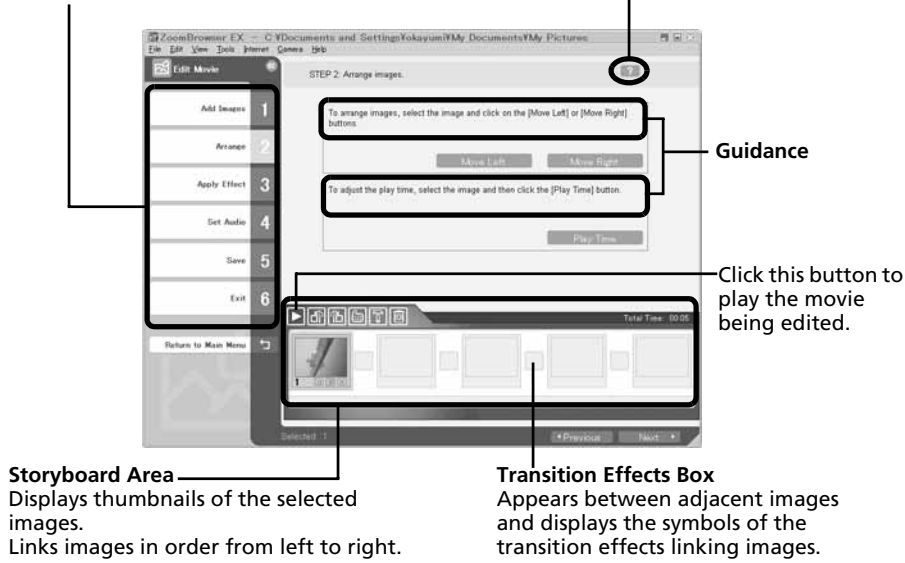
Movies are saved as AVI files in the Motion JPEG (MPEG) format.

1. Click [View & Modify] in ZoomBrowser EX's main window, followed by [Edit Movie].
2. Select the image(s) to edit in the Browser Area (movies or stills) and click [Next].
You can select multiple movies or stills.

3 Follow the steps at the left of the window to edit the movie and save it.

Follow these steps to proceed.

Click this button for detailed operational instructions.

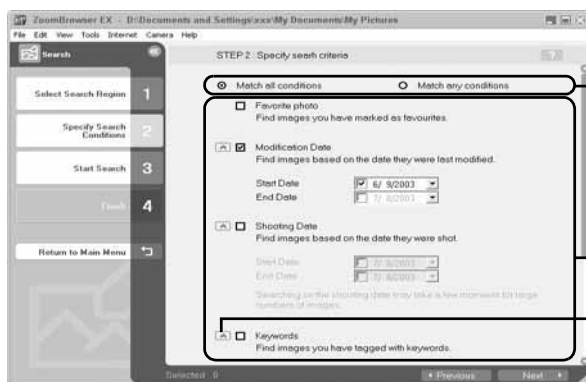


Searching Images

You can search for images marked as your Favorites or by such parameters as the modification date, shooting date or keywords. The procedures for marking images as Favorites and adding keywords to them are explained in the following pages.

- 1** Select a folder to search in the Browser Area.
- 2** Click [View & Modify], followed by [Search] in the next menu.
- 3** Set the search parameters.
Place a check mark in the parameter you wish to use.

If you selected the modification or shooting date, set the date range. If you selected the keyword option, select the keywords.



Sets whether images are searched according to all the parameters or just one.

Set the parameters here.

Clicking here allows you to hide the search parameter details.

- 4** Click [Next] after setting the search parameters.

- 5** If the search results are satisfactory, click the [Finish] button.

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

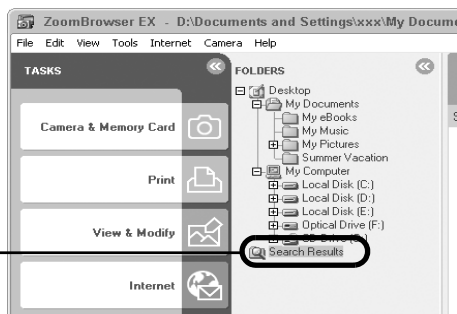


Images satisfying the search parameters

This concludes the search process.

The images that met the search criteria will be contained in the Search Results folder in the main window. You can select, print or copy these images to another folder. The images will display in this folder until ZoomBrowser EX is closed or another search is performed.


Folder containing the images satisfying the search parameters



Setting Image Parameters for Future Searches

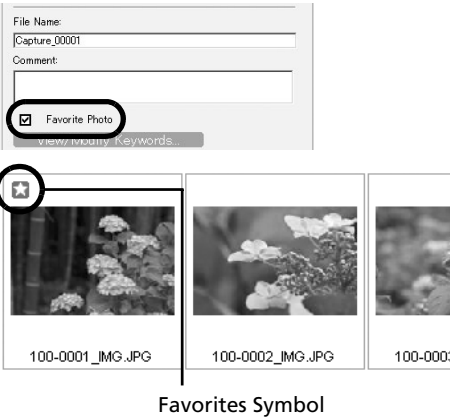
Placing a Check Mark in the Favorites Box

Adding a check mark to the Favorites box makes it easy to perform searches on images later.

- 1 Select the image in the Browser Area and click  (Properties).
The Properties window will display.


- 2 Click the [Favorite Photo] box to add a check mark and close the Properties window.
This concludes the process for marking an image as one of your favorites.

The symbol shown on the right is displayed on images marked as your favorites.



Adding Keywords to Images

Add searchable keywords to images.

- 1 Select the image in the Browser Area and click  (Properties).
- 2 Click [View/Modify Keywords].



- 3** To add an existing keyword to an image, click the keyword to add a check mark beside it.

Select an existing keyword to add to an image.



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

- 4** Click [OK].
This completes the procedures for adding keywords to images.

Converting RAW Images

RAW images are extremely high-quality images that are not subject to any deterioration due to compression processing. Since they are recorded with a special file format, they cannot be opened by many image editing programs. It is necessary to convert them to standard image file formats, such as TIFF or JPEG.



- See *Information about Your Camera* (p. 92) to determine whether your camera model supports this function.
- See the *Camera User Guide* for information about the camera settings for shooting RAW images.

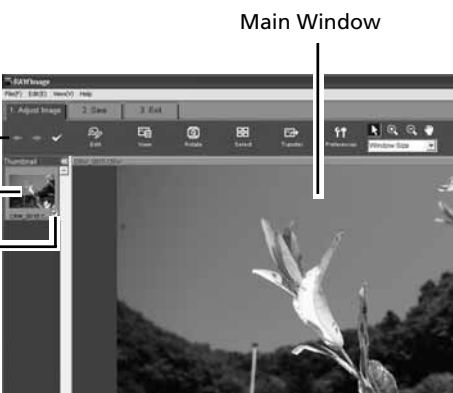
Procedures for Converting RAW Images


- 1** Select a RAW image in ZoomBrowser EX's Browser Area.
- 2** Click [View & Modify], followed by [Process RAW Images].

The main window, the Navigator window and the Image Quality Adjustment Window will display.

Use the buttons here to switch between images and display modes, rotate images, and set the conversion parameters.

Thumbnail
Check Mark



 If the navigator window or the Image Quality Adjustment Window do not display, click the [View] menu and select [Show Navigator] or [Show Image Quality Adjustment Window].

3 Adjust the image quality as required in the Image Quality Adjustment Window. This window is explained in the *Functions of the Image Quality Adjustment Window* section.

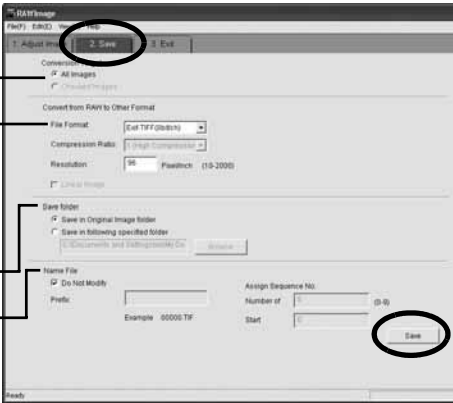
4 Click the [2. Save] tab, set the file format and destination, and then click [Save].

Select [All Images] or [Checked Images] (images checked in the main window) to apply the common conversion settings.

Select a file format

Set the file destination

You can also change the image file name

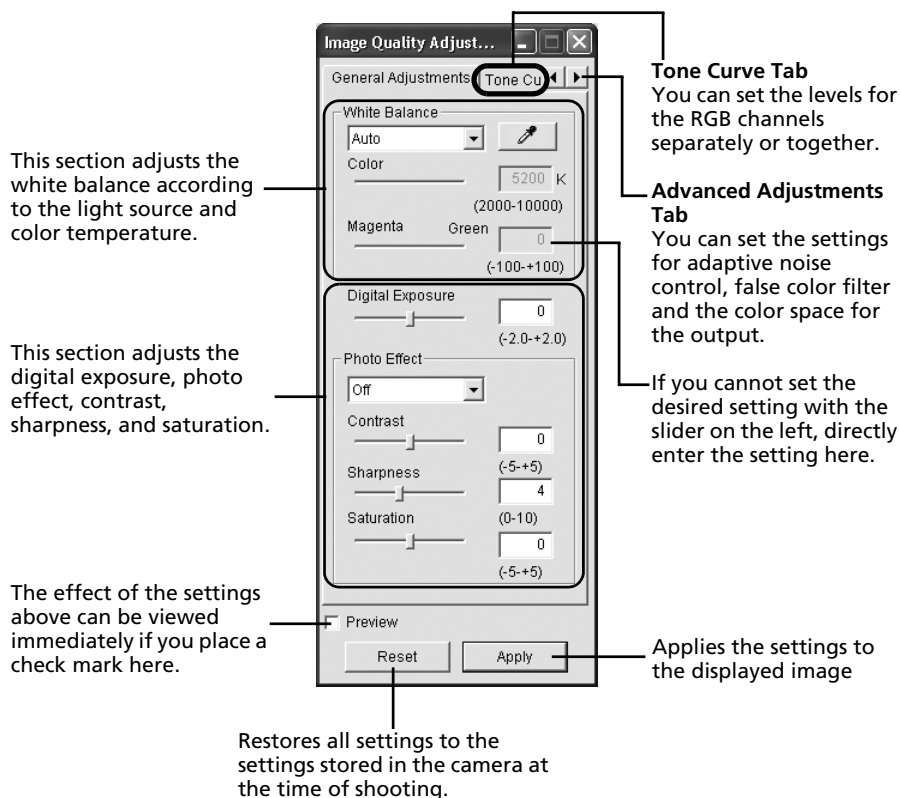


This will convert the image.

5 Click the [3. Exit] tab and click [OK].

Functions of the Image Quality Adjustment Window

The following adjustments can be made in the Image Quality Adjustment Window.



You can change the coloration of the image to your preferred settings when you convert a RAW image. You can also select preset color schemes, such as Positive Film. Furthermore, you can add your own color schemes (My Color) to apply to other RAW images when they are being converted. See the PDF manual for ZoomBrowser EX for more information (p. 2).

Operating the Shutter Remotely

You can record still images by using a computer to control the shutter of a connected camera. This is particularly useful for checking images on the larger display of the computer as you record them and for high volume photography without worrying about filling the camera's memory card.

Preparing for Remote Shooting

- 1** Ensure that the camera is connected to the computer and that ZoomBrowser EX is displaying its main window.



Procedures for attaching the camera to the computer and placing it in the correct mode for connecting vary between camera models. See *Information about Your Camera* (p. 92).

- 2** Open the lens cover or remove the lens cap on models equipped with them. Proceed to the next step if your model does not have one.
- 3** Click [Cancel] if the Events dialog appears.
- 4** In the Browser Area, select the folder in which images will be saved.
The folder selected here will be the folder into which the remote shooting images are saved.
- 5** Click [Camera & Memory Card], followed by [Remote Shooting]

RemoteCapture Task Window

The RemoteCapture Task window has the following features.

Shows/Hides the viewfinder or detailed settings area.

Size and Resolution Selector

Selects the size and resolution at which images are captured.

Rotation Settings

Sets the rotation parameters for images after they are captured.

You can add comments to images by placing a check mark here and typing text in the boxes below.

Release Button

Releases the shutter.

Slide this to zoom the camera in or out.

Viewfinder Display
Click the [Start/Stop Viewfinder] button while a connection to the camera is open to display the image appearing in the camera's viewfinder.

Start/Stop Viewfinder Button

Starts or stops the viewfinder display.


Refresh Button

Resets the exposure, focus and white balance.



Set the basic camera settings here.




- The settings available in the RemoteCapture Task window vary between camera models.
- RemoteCapture Task locks the exposure and focus settings for the subject matter in the Viewfinder section. If the lighting or distance to the subject changes, click  to reset these settings.

Remote Shooting



Ensure that you turn off your computer's standby mode before you begin remote shooting. The device performance cannot be guaranteed if the computer enters the standby mode.

- 1** Click  and check the subject in the viewfinder.
- 2** Change the image size or resolution, the rotation settings and the settings at the bottom of the window as required.

If you intend to tilt the camera 90 degrees on end to photograph a person, you can save the image to the computer with the correct orientation if you set the rotation settings in advance.



If your camera is equipped with the Auto Rotate function and you set it to On, the image will automatically be rotated and appear in the correct viewing orientation in the RemoteCapture Task window.

- 3** Click the [Release] button.

The recorded image is saved to the folder that was displayed in the window when the remote shooting procedures were initiated.



- You can release the shutter by pressing the camera's shutter button or the keyboard's space key.
- The zoom controls and other camera buttons and switches, except for the shutter button, cannot be operated while the camera is being used for remote shooting.
- You may notice that the interval between the shutter release and activation is slightly longer for remote shooting than when the camera is used independently.

Other Features

Changing the File Saving Method

- 1 Click the [File] menu in the RemoteCapture Task window and select [Preferences].
- 2 Select a file settings option and click [OK].

Sets whether images are saved only to the computer or to both the computer and the memory card in the camera.

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. You can also change the number of digits and the starting number.


The recorded images are saved to this folder.



Selecting [Computer only] in the "Save Images On" category allows you to shoot when there is no memory card in the camera or when the camera's memory card is full.

Displaying the Subject in the Camera's LCD Monitor

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

- 1 Click the [Camera] menu in the RemoteCapture Task window and select [Camera Display Settings].
- 2 Select [Camera LCD monitor] and click [OK].
- 3 Click the  icon in the RemoteCapture Task window.



You can display the subject on a TV connected to the camera by selecting [Video Out terminal] in Step 2. See the *Camera User Guide* for instructions to connect the camera to a TV.

Merging Panoramic Images - PhotoStitch

You can create a wide panoramic image by merging several images, such as those shot in the camera's Stitch Assist mode.

Starting PhotoStitch

- 1** Click [View & Modify] in the ZoomBrowser EX's main window and click [Stitch Photos].
- 2** Select a series of images in the Browser Area and click [Finish].

Follow the instructions to merge the images.



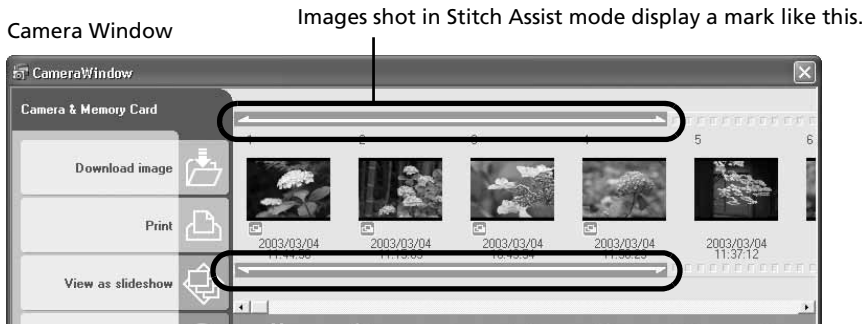
- 3** Merge the images following the instructions in the guidance panel at the top of the PhotoStitch window.



- QuickTime 3.0 or a later version is required to save the merged image in the QuickTime VR format. (QuickTime is supplied on the Canon Digital Camera Solution Disk.)
- Images shot in Stitch Assist mode with a wide converter, teleconverter or close-up lens cannot be merged accurately.

Images Shot in Stitch Assist Mode

It is easy to merge images shot with the camera's Stitch Assist mode since PhotoStitch automatically arranges them in the correct order and orientation.





- You can start PhotoStitch by clicking the mark shown on images shot in Stitch Assist mode.
- See the *Camera User Guide* for information about shooting in Stitch Assist mode.

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

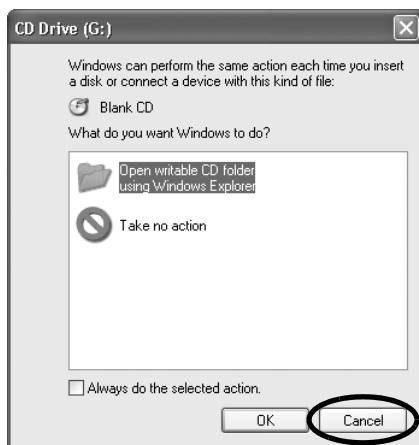
You can copy and save ZoomBrowser EX images to CD-R/RW disks. The shooting information is copied along with the images.



This feature is only possible on computers that satisfy the following requirements.

- Windows XP was pre-installed on the computer
- The CD-R/RW drive came as standard equipment with the computer

- 1 Place a CD-R/RW disk in the drive.
- 2 Click [Cancel] to close it if a dialog like that on the right appears.



- 3 Click [View & Modify] in the ZoomBrowser EX main window and click [Backup to CD].
- 4 Follow the instructions at the left of the display to proceed.
The disk will automatically eject from the drive once the files have been copied to it.



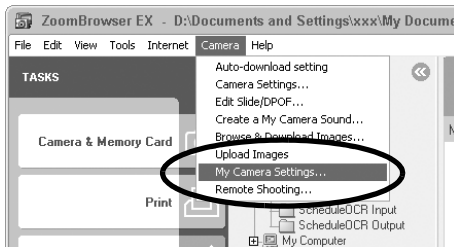
Additional images can be copied onto a CD-R/RW disk with sufficient space that has already been written to once.

Enjoy Customizing Your Camera with the My Camera Settings

The start-up image, start-up sound, shutter sound, operation sound, and self-timer sound are called the My Camera Settings. You can add your favorite images and sounds from your computer to the My Camera Settings. This topic explains how to upload the My Camera Settings saved onto your computer to the camera and vice versa.

Displaying the My Camera Window

- 2** Click the [Camera] menu in the main window and select [My Camera Settings].

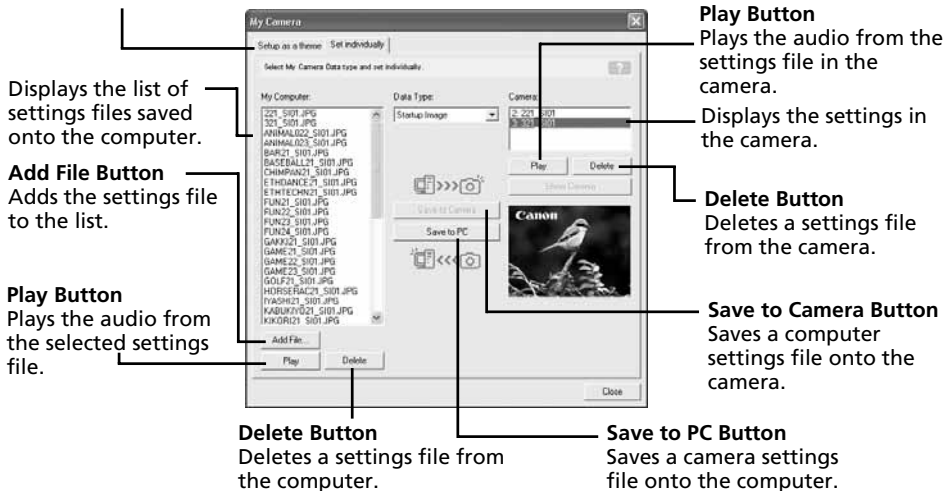


The My Camera Window Features

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

Tabs

[Click here to switch between adjusting the settings individually or in themed sets.](#)





You can add new data to the My Camera window. See *Adding New Data to the My Camera Window* (p. 44).

Saving the My Camera Settings to the Camera



- My Camera Settings can be selected and saved in either of two ways to the camera: individually or in theme sets.
- The “Animal” theme, for example, features an animal in the start-up image and animal calls in each of the sound files. The names of the prepared files for the various My Camera Settings themes all begin with the same root name, such as “Animal~”. For example, the start-up image that starts with “Animal~” shows an animal picture while the similarly named sound files feature animal sounds.



Do not detach the interface cable, turn the camera power off or disconnect the camera from the computer while the My Camera Settings are being saved to the camera or the settings from the camera are being saved to the computer.

- 1** Select the [Setup as a theme] tab in the My Camera window.
To set the start-up image or sound individually, click the [Set individually] tab and select it.
- 2** Select the settings file you wish to save to the camera from the My Computer list.
- 3** Select the setting from the Camera list that you would like to change and click [Save to Camera].

This concludes the process of saving the My Camera settings to the camera. The Camera list setting will change to the selected file. If a setting for this category has previously been saved to the camera, it will be overwritten.

Repeat steps 1-3 as required.

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 these instructions.

Saving the Camera's My Camera Settings to the Computer

- 1** Select the [Setup as a theme] tab in the My Camera window.
To set the start-up image or sound individually, click the [Set individually] tab and select it.
- 2** Select the settings file(s) from the Camera list that you wish to save to the computer.
- 3** Click [Save to PC].
- 4** Add a name to the settings file you are saving and click [OK].

This concludes the process of saving the My Camera settings to the computer. Repeat steps 1-4 as required.

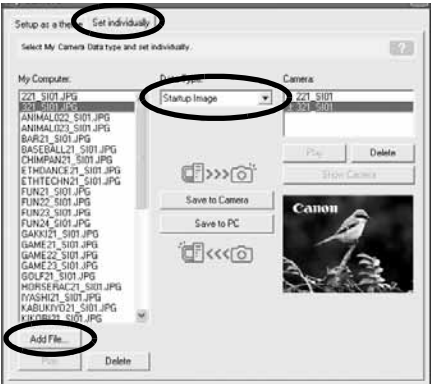
Adding New Data to the My Camera Window

Create a new image or sound file and add it to the My Camera window.

Create an Original Start-up Image File and then Add It

Start by using an image editing program to create the image file that will become the start-up image and save it to the computer. Create the file in the JPEG format at a size of (w) 320 x (h) 240 pixels.

- 1 Open the My Camera window, click the [Set individually] tab, select [Startup Image] from [Data Type] and click the [Add File] button.

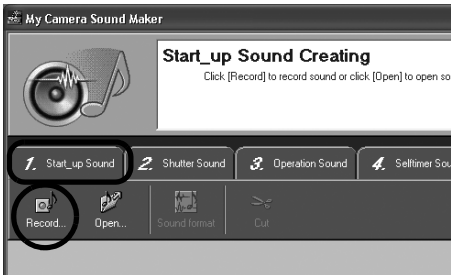


- 2 Select the file you created and click [Open].
This concludes the process for adding new data.
You can save the newly created data to the camera using the procedures described in the *Saving the My Camera Settings to the Camera* section (p. 43).

Create an Original Sound File and then Add It (Example: Start-up Sound)

It is easy to create a sound file using the My Camera Sound Maker window. QuickTime is required to play the recorded sound.

- 1 Click the [Camera] menu in the ZoomBrowser EX main window and select [Create a My Camera Sound].
- 2 Click the [1. Start-up Sound] tab, followed by the [Record] button.



To open a sound file already saved to the computer, click the [Open] button in place of the [Record] button. Then skip to Step 6.

- 3** Click the [Start] button.



- 4** When the recording is complete, click the [Stop] button, followed by the [Close] button.

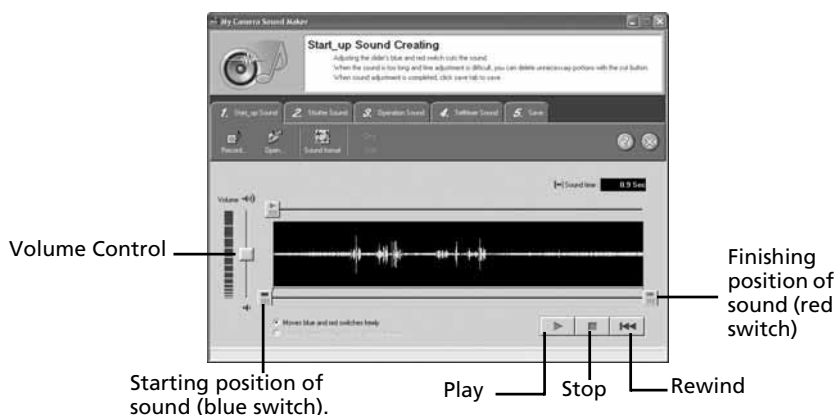
Recording will stop after 30 seconds elapses even if the Stop button is not clicked. In that case, just click the [Close] button.

- 5** Click the [Sound Format] button as required and select a sound format.

- 6** Edit the sound data so that it conforms to the time limits.

Adjust the time of the recording with the blue or red switch.

The extra data outside the starting and finishing switches can be erased by clicking the [Cut] button.



- 7** Click the [Save] tab, confirm that the sound file was created, input a file name and then save it.

- 8** Click the [Save] button, add a file name and save it.



Repeats steps 2-8 as required to create sound files for the shutter sound, operation sound and self-timer sound.

- 9** Click to close the My Camera Sound Maker window.

This concludes the process of adding a sound file as a My Camera settings file to the computer.

You can add the file to the camera with the procedures described in the *Saving the My Camera Settings to the Camera* section (p. 43).



- Record the sound as an 11.025 kHz or 8.000 kHz, 8 bit, mono sound in the WAV format. The following chart shows standard time lengths for My Camera Sounds.

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
Operation Sound	0.3 sec. or less	0.4 sec. or less
Self-Timer Sound	2.0 sec. or less	2.0 sec. or less

Using the Software on the Macintosh Platform – Preparations

This chapter explains the basic procedures for installing the software. Read this material before you connect the camera to the computer for the first time.



Installing the Software

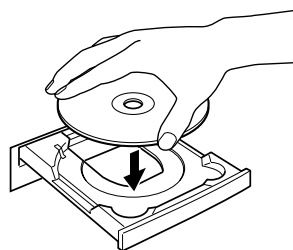
Start by installing the software from the Canon Digital Camera Solution Disk.

Items to Prepare

- Your camera and computer
- Canon Digital Camera Solution Disk
- Interface cable supplied with the camera

Installation Procedures

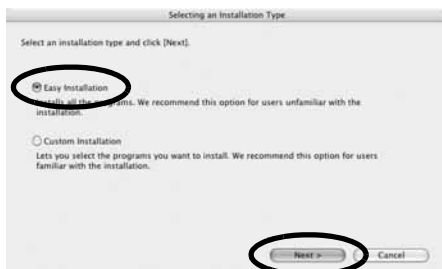
- 1 Close any programs that are running.
- 2 Place the Canon Digital Camera Solution Disk in the computer's CD-ROM drive.
- 3 Double-click the CD-ROM icon, followed by the [Mac OS X] and [Canon Digital Camera Installer]  icons. With Mac OS 9, double-click the CD-ROM icon, followed by the [Mac OS 9] and [Canon Digital Camera Installer]  icons.
- 4 Click the Digital Camera Software [Install] button.



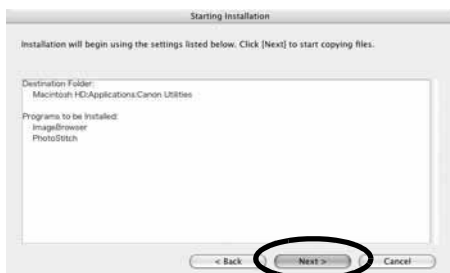
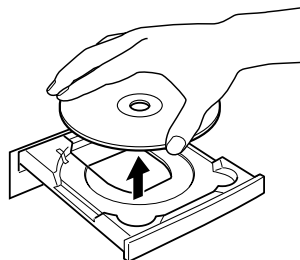
Installer Panel

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

Select [Custom Installation] to select programs individually for installation.

**6** Read the software license agreement and click [Agree] if you consent to all the conditions.**7** Review the installation settings and click [Next].

Follow the onscreen instructions to proceed.

**8** When the installation is over, click [OK].**9** Remove the disk from the CD-ROM drive.
This concludes the software installation.



See *Uninstalling the Software* (p. 81) to delete the software installed with these procedures.

Continue by downloading images to the computer (p. 50).

Using the Software on the Macintosh Platform – The Basics

This chapter explains the procedures for using ImageBrowser to download the camera's images to the computer and print them.

Read this chapter after completing the preparations in the *Using the Software on the Macintosh Platform – Preparations* section.

Starting ImageBrowser

Begin by starting up ImageBrowser. The startup procedures vary according to whether you are connecting the camera to the computer or using a memory card reader.

Camera to Computer Connection


Mac OS X

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



Procedures for attaching the camera to the computer and placing it in the correct mode for connecting vary between camera models. See *Information about Your Camera* (p. 92).

iPhoto or Image Capture will automatically start when the camera and computer are ready to connect. If either of these programs does not start, proceed to Step 3.

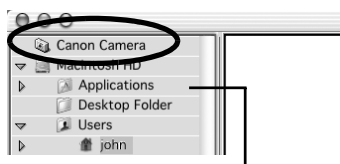
- 2** Click  at the upper left of the iPhoto or Image Capture window to close it.
- 3** Double-click the [Canon ImageBrowser] icon on the desktop.

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



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


The Communication Settings dialog will display. This dialog will only appear the first time the camera is connected.



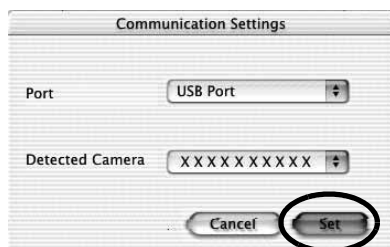
Explorer View Section

- 5** Confirm that [USB port] is selected as the port option and that your camera model name or [Canon Camera] are selected as the detected camera. Click [Set].

iPhoto or Image Capture may automatically start up at the same time as the Camera Window. Step 6 is not required when neither program starts up automatically.

- 6** Click the  icon at the top left of the iPhoto or Image Capture window to close the program.

- 7** Confirm that the images from the camera are displayed as thumbnails (tiny versions) in the Camera Window.



Camera Window



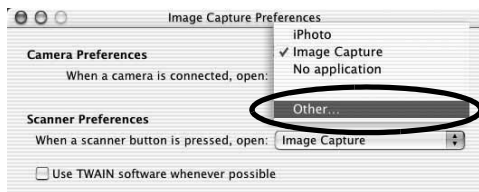
Thumbnail

How to Set ImageBrowser to Start Automatically with Mac OS X

You can have ImageBrowser start automatically when you connect the camera to the computer by adjusting the following settings.

Mac OS X v10.2

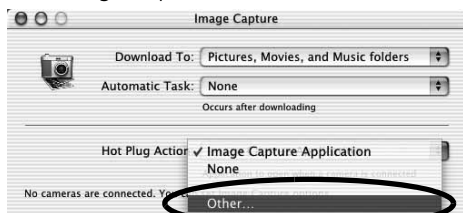
1. Start Image Capture, click the [Image Capture] menu and select [Preferences].
2. In the next menu, click the [Camera Preferences] list box and select [Other].



3. Select [ImageBrowser] in the program selection window.
 4. Close Image Capture.
- ImageBrowser will start automatically from the next connection onward.

Mac OS X v10.1

1. Start Image Capture and select [Other] from the Hot Plug Action list box.



2. Select [ImageBrowser] in the program selection window.
 3. Close Image Capture.
- ImageBrowser will start automatically from the next connection onward.

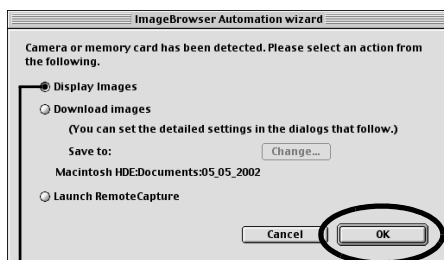
Mac OS 9

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



Procedures for attaching the camera to the computer and placing it in the correct mode for connecting vary between camera models. See *Information about Your Camera* (p. 92) for details.

- 2** Once the ImageBrowser Automation Wizard appears, confirm that [Display Images] is selected and click [OK].



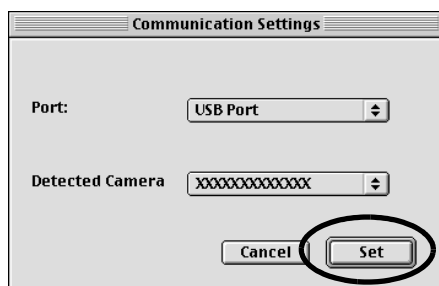
Confirm that this option is selected.



To download images with transfer order settings, select [Download images] and click [Next]. Select [Download images marked for transferring] and click [OK].

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

- 3** Confirm that [USB port] is selected as the port option and that your camera model name or [Canon Camera] are selected as the detected camera. Click [Set].



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

Camera Window



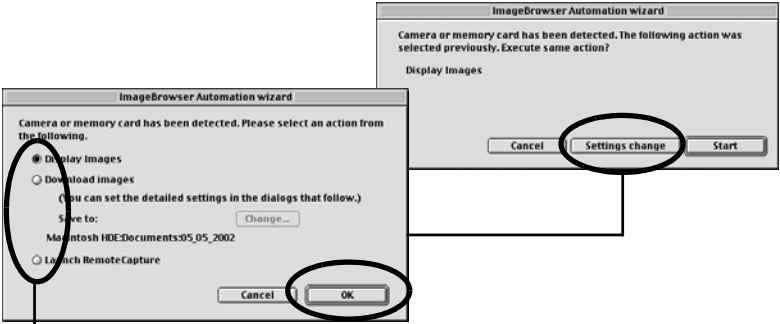
Thumbnail



In the ImageBrowser Automation Wizard dialog, you can select the action that is carried out after ImageBrowser starts.



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 and click [OK].

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 window.

Click here to close the window.

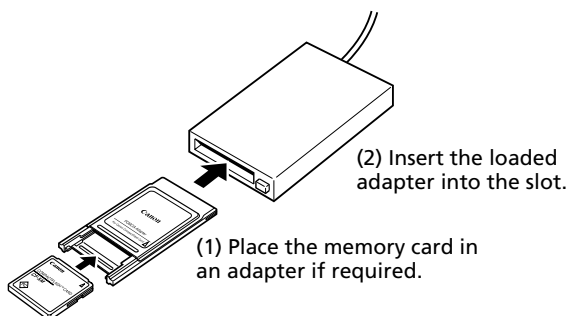
Clear the check mark here to stop ImageBrowser from starting automatically.



Next, download images to the computer (p. 56).

Memory Card Connection

- 1 Insert the memory card into the reader.
Use a separately sold card adapter (PCMCIA adapter) if required.
See the manual for the memory card for its connection and handling instructions.

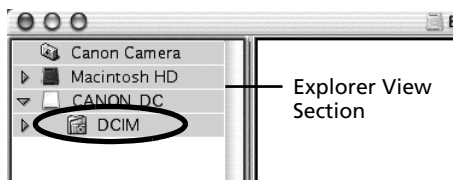


- 2 Double-click the [Canon ImageBrowser] icon on the desktop.



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 memory card will display as thumbnails (tiny versions) in the Camera Window.

Camera Window



Thumbnail



See *Memory Card Folder Structure* (p. 82) for information about memory card folder structures and file names.

Next, download images to the computer (p. 56).

Downloading Images to the Computer

Creating a Folder to Receive Downloaded Images

Create a new folder for downloaded images with the following procedures.

- 1 Click the window labeled [Browser Window] and bring it to the foreground.
- 2 Select the [Users] folder and the subfolder labeled with the user name under which you are logged in on the startup disk.

Mac OS 9 users should select [Macintosh HD] in the Explorer View section.

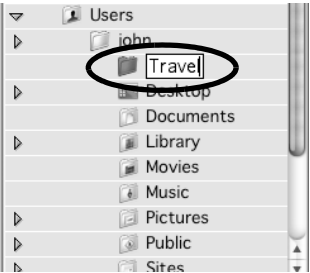
Explorer View Section



- 3 Click the [File] menu and select [New Folder].
This will create a folder labeled "Untitled."



- 4 Input a new name and press the [return] key.
This will replace the name with the one you type.



- 5** Select the newly created folder.



Downloading Images

Download images to the new folder created in *Creating a Folder to Receive Downloaded Images*.

- 1** Click the Camera Window to bring it to the forefront.
- 2** Click the images to download.

A blue frame appears around selected images.



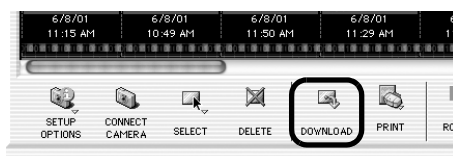
Thumbnail

The movie icon displays on movie thumbnails.

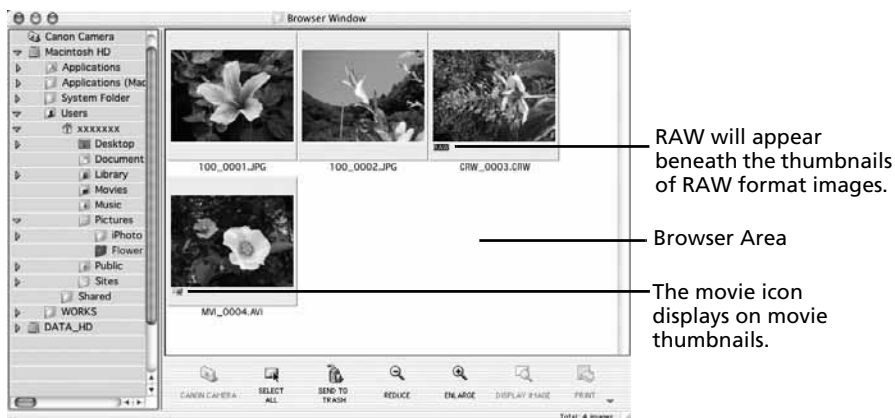
RAW will appear beneath the thumbnails of RAW format images.





You can select multiple images by holding the [shift] key while clicking images.

3 Click [Download].

The downloaded images will copy to the folder created in *Creating a Folder to Receive Downloaded Images*, 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 close the connection to the camera, click the close box  (Mac OS 9) or the red close box  (Mac OS X) at the top left of the Camera Window.
- Your camera uses a standard image transfer protocol called the Picture Transfer Protocol (PTP). With the PTP protocol and Mac OS X, you can easily download images by connecting the camera to the computer with an interface cable and using the software preinstalled on your operating system, such as iPhoto and Image Capture. (You do not even need to install ImageBrowser.) However, there are some inconveniences and limitations to this downloading method. See the *For Windows® XP and Mac OS X Users* leaflet for details.

Continue by printing out an image.

Printing Images

Printing

- 1 Select the image(s) to print.
A blue frame appears around selected images.

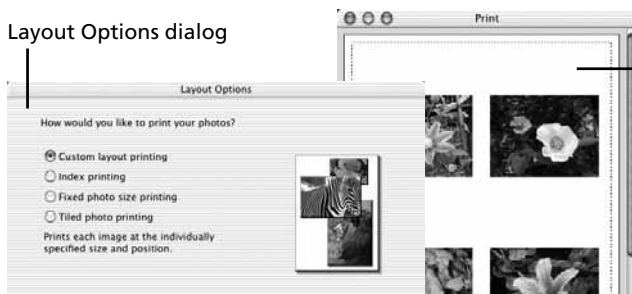


Movie images cannot be printed.

- 2 Click the [Print] button and select [Layout printing] from the displayed menu.
This displays the Layout Options dialog and the Print window.



Layout Options dialog



Print window

The next steps differ according to whether you select Full Page Print (one image per page) or Layout and Print (multiple images arranged on one page).

Full Page Print

This option prints one image per page.

- 1 Confirm that [Tiled photo printing] is selected in the Layout Options dialog and click [Next].
- 2 Once you have set the paper size and other settings, select [1 (1 x 1)] in the No. of images category and click [OK].
- 3 Click the [Print] button in the Print window.
This will display the Print dialog.
- 4 Click [Print] to start printing.

Layout and Print

This option prints multiple images on a single page as in a photo album.

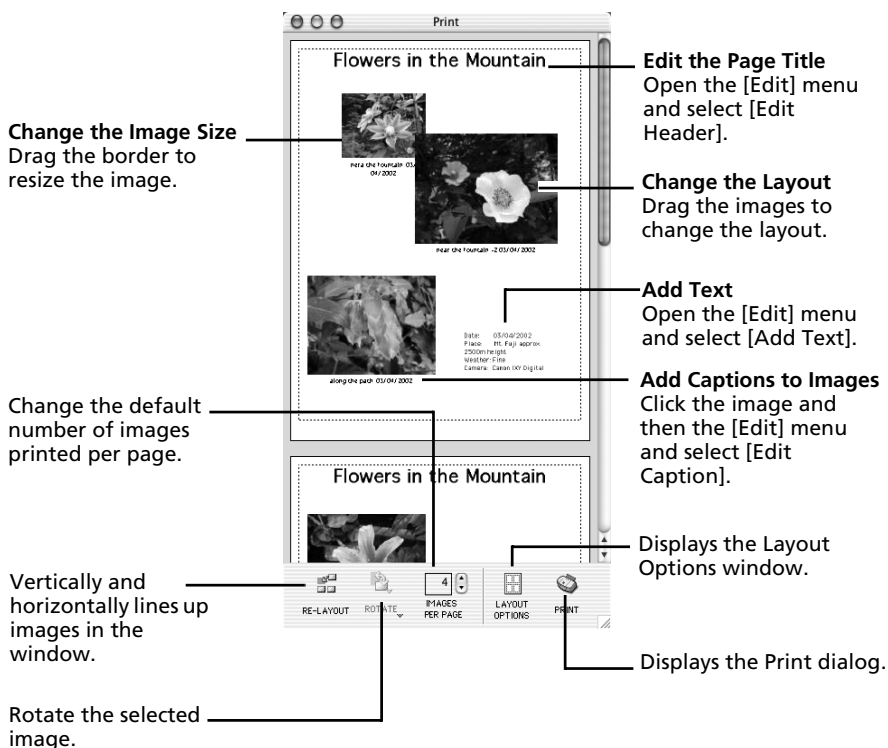
- 1** Select [Custom layout printing] in the Layout Options dialog and click [Next].
- 2** Select settings, such as the paper size, and click [OK].
- 3** As required, change the layout and add text in the Print window.
See *Print Window Features* (p. 61) for the procedures for changing layouts and adding text.
- 4** Click the [Print] button in the Print window.
This will display the Print dialog.
- 5** Click [Print] to start printing.



- You can print an index print by selecting [Index printing] in the Layout Options dialog.
- Images shot with Exif 2.2-compliant cameras (Exif Print) incorporate information about the shooting settings, such as the camera modes and settings. Better prints can be made by using this information to correct the image. You can set this function by clicking the [ImageBrowser] menu and selecting [Preferences] (in Mac OS 9, click the [Edit] menu to select [Preferences]), followed by [Print] in the list box and [Image Correction Settings].

Print Window Features

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.



This chapter explained the ImageBrowser basics.

Once you have mastered them, read the following chapter to try the advanced techniques.

Using the Software on the Macintosh Platform — Advanced Techniques (p. 62).




A PDF-format manual for ImageBrowser is also available. It provides further information about the program's features and procedures. See *Using the PDF Manuals (p. 2)*.

Using the Software on the Macintosh Platform – Advanced Techniques

This chapter explains how to use various ImageBrowser features, such as how to play movies and create panoramic images.

Proceed to this chapter once you have mastered the basic ImageBrowser procedures in the *Using the Software on the Macintosh Platform – The Basics* chapter.

Replaying Movies

- 1** Double-click an image with a movie icon in ImageBrowser's Browser Area. QuickTime Player will start.
- 2** Click the play button  in QuickTime Player.

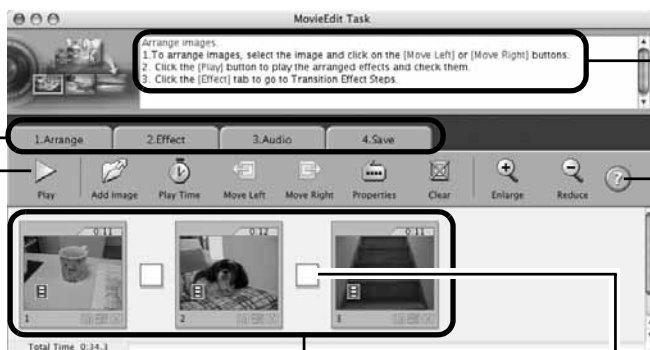


Editing Movies (Mac OS X Only)

You can create and edit movies: link movies and stills that have been downloaded to your computer, add background music, superimpose titles and other text, and apply various effects to the movies.

- 1** Select the image(s) to edit in ImageBrowser's Browser Area (movies or stills).
You can select multiple movies or stills.
- 2** Click the [Edit] menu and select [Movie Edit].
- 3** Follow the steps displayed in the middle of the window to edit the movie and save it.

Follow these steps to proceed.



Guidance

Click this button for detailed operational instructions.

Click this button to play the movie being edited.

Storyboard Area
Displays thumbnails of the selected images.
Links images in order from left to right.

Transition Effect Box
Appears between adjacent images and displays the symbols of the transition effects linking images.

Converting RAW Images

RAW images are extremely high-quality images that are not subject to any deterioration due to compression processing. Since they are recorded with a special file format, they cannot be opened by many image editing programs. It is necessary to convert them to standard image file formats, such as TIFF or JPEG.



- See *Information about Your Camera* (p. 92) to determine whether your camera model supports this function.
- See the *Camera User Guide* for information about the camera settings for shooting RAW images.

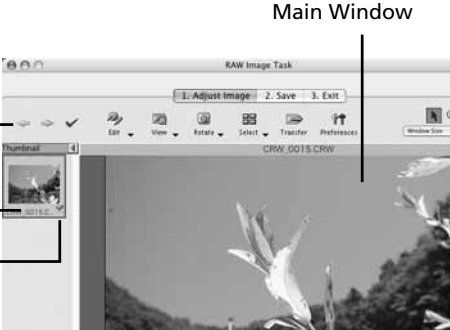
Procedures for Converting RAW Images

- 1 Select a RAW image in ImageBrowser's Browser Area.
- 2 Click the [File] menu and select [RAW Image Processing].

The main window, the Navigator window and the Image Quality Adjustment Window will display.

Use the buttons here to switch between images and display modes, rotate images, and set the conversion parameters.

Thumbnail _____
Check Mark _____



If the navigator window or the Image Quality Adjustment Window do not display, click the [View] menu and select [Show Navigator] or [Show Image Quality Adjustment Window].

- 3 Adjust the image quality as required in the Image Quality Adjustment Window. This window is explained in the *Functions of the Image Quality Adjustment Window* section.

- 4** Click the [2. Save] tab, set the file format and destination, and then click [Save].

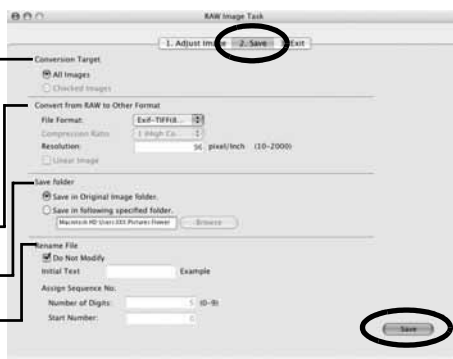
Select [All Images] or [Checked Images] (images checked in the main window) to apply the common conversion settings.

Select a file format

Set the file destination

You can also change the image file name

This will convert the image.



- 5** Click the [3. Exit] tab and click [OK].

Functions of the Image Quality Adjustment Window

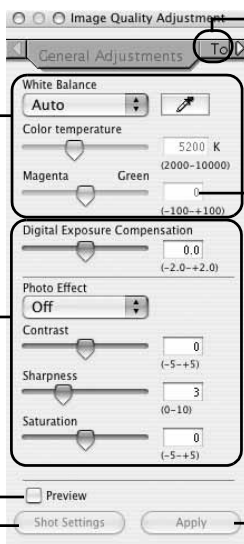
The following adjustments can be made in the Image Quality Adjustment Window.

This section adjusts the white balance according to the light source and color temperature.

This section adjusts the digital exposure, photo effect, contrast, sharpness, and saturation.

The effect of the settings above can be viewed immediately if you place a check mark here.

Restores all settings to the settings stored in the camera at the time of shooting.



Tone Curve Tab

You can set the levels for the RGB channels separately or together.

Advanced Adjustments Tab

You can set the settings for adaptive noise control, false color filter and the color space for the output. (Click the arrow to display the tab)

If you cannot set the desired setting with the slider on the left, directly enter the setting here.

Applies the settings to the displayed image



You can change the coloration of the image to your preferred settings when you convert a RAW image. You can also select preset color schemes, such as Positive Film. Furthermore, you can add your own color schemes (My Color) to apply to other RAW images when they are being converted. See the PDF manual for ImageBrowser for more information (p. 2).

Operating the Shutter Remotely

You can record still images by using a computer to control the shutter of a connected camera. This is particularly useful for checking images on the larger display of the computer as you record them and for high volume photography without worrying about filling the camera's memory card.

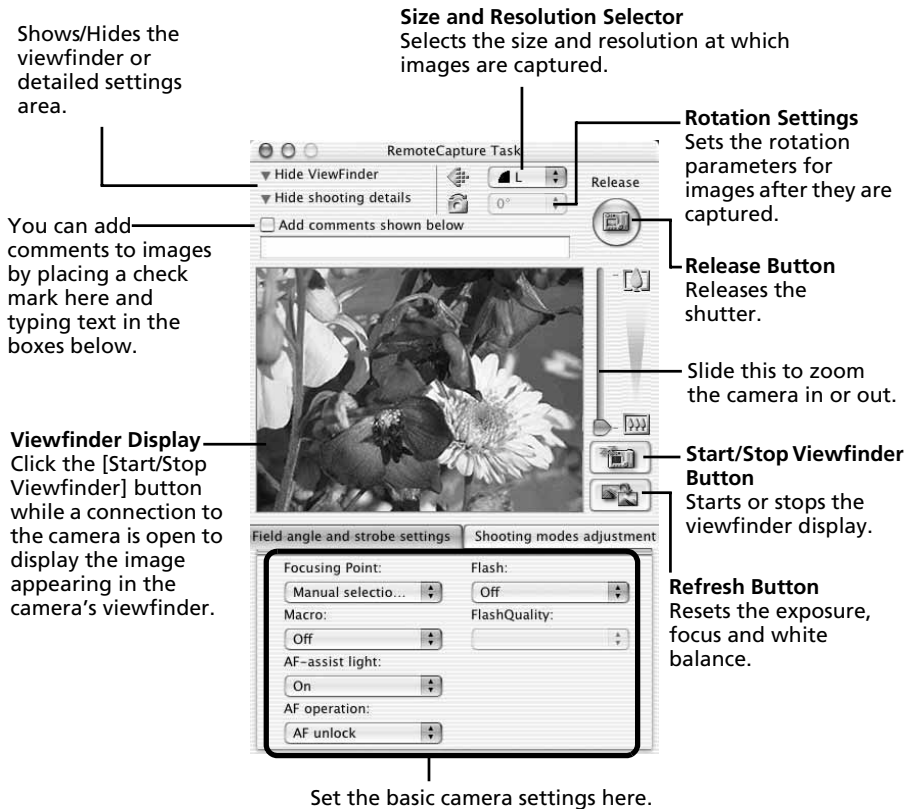
Preparing for Remote Shooting


- 1** Ensure that the camera is connected to the computer and that ImageBrowser is displaying its Browser Window.
Close the Camera Window if it appears.

Procedures for attaching the camera to the computer and placing it in the correct mode for connecting vary between camera models. See *Information about Your Camera* (p. 92).
- 2** Open the lens cover or remove the lens cap on models equipped with them.
Proceed to the next step if your model does not have one.
- 3** In the Browser Area, select the folder in which images will be saved.
The folder selected here will be the folder into which the remote shooting images are saved.
- 4** Click the [Edit] menu and select [RemoteCapture].

RemoteCapture Task Window

The RemoteCapture Task window has the following features.




- The settings available in the RemoteCapture Task window vary between camera models.
- RemoteCapture Task locks the exposure and focus settings for the subject matter in the Viewfinder section. If the lighting or distance to the subject changes, click  to reset these settings.

Remote Shooting



Ensure that you turn off your computer's sleep mode before you begin remote shooting. The device performance cannot be guaranteed if the computer enters the sleep mode.

1 Click  and check the subject in the viewfinder.

2 Change the image size or resolution, the rotation settings and the settings at the bottom of the window as required.

If you intend to tilt the camera 90 degrees on end to photograph a person, you can save the image to the computer with the correct orientation if you set the rotation settings in advance.



If your camera is equipped with the Auto Rotate function and you set it to On, the image will automatically be rotated and appear in the correct viewing orientation in the RemoteCapture Task window.

3 Click the [Release] button.

The recorded image is saved to the folder that was displayed in the window when the remote shooting procedures were initiated.



- You can release the shutter by pressing the camera's shutter button or the keyboard's space key.
- The zoom controls and other camera buttons and switches, except for the shutter button, cannot be operated while the camera is being used for remote shooting.
- You may notice that the interval between the shutter release and activation is slightly longer for remote shooting than when the camera is used independently.

Other Features

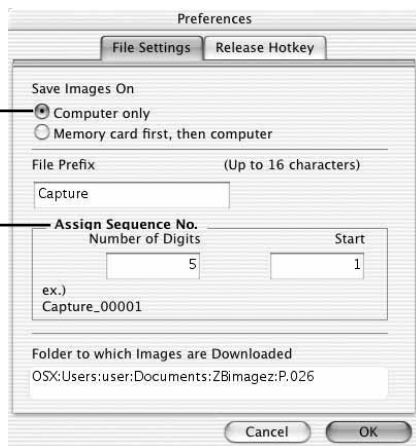
Changing the File Saving Method

- 1** Click the [RemoteCapture Task] menu and select [Preferences].
For Mac OS 9, click the [File] menu and select [Preferences].

- 2** Select a file settings option and click [OK].

Sets whether images are saved only to the computer or to both the computer and the memory card in the camera.


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. You can also change the number of digits and the starting number.



Selecting [Computer only] in the "Save Images On" category allows you to shoot when there is no memory card in the camera or when the camera's memory card is full.

Displaying the Subject in the Camera's LCD Monitor

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

- 1** Click the [File] menu and select [Camera Display Settings].
- 2** Select [Camera's LCD monitor] and click [OK].
- 3** Click the  icon.



You can display the subject on a TV connected to the camera by selecting [Video Out terminal] in Step 2. See the *Camera User Guide* for instructions to connect the camera to a TV.

Merging Panoramic Images - PhotoStitch

You can create a wide panoramic image by merging several images, such as those shot in the camera's Stitch Assist mode.

Starting PhotoStitch

- 1
- 2
- Select a series of images in the ImageBrowser's Browser Area.
Click the [Edit] menu and select [PhotoStitch].

Follow the instructions to merge the images.



- 3
- Merge the images following the instructions in the guidance panel at the top of the PhotoStitch window.

Images shot in Stitch Assist mode with a wide converter, teleconverter or close-up lens cannot be merged accurately.

Images Shot in Stitch Assist Mode

It is easy to merge images shot with the camera's Stitch Assist mode since PhotoStitch automatically arranges them in the correct order and orientation.

Images shot in Stitch Assist mode display a mark like this.

Camera Window





- You can also start PhotoStitch by clicking the mark shown on images shot in Stitch Assist mode.
- See the *Camera User Guide* for information about shooting in Stitch Assist mode.

Enjoy Customizing Your Camera with the My Camera Settings

The start-up image, start-up sound, shutter sound, operation sound, and self-timer sound are called the My Camera Settings. You can add your favorite images and sounds from your computer to the My Camera Settings. This topic explains how to upload the My Camera Settings saved onto your computer to the camera and vice versa.

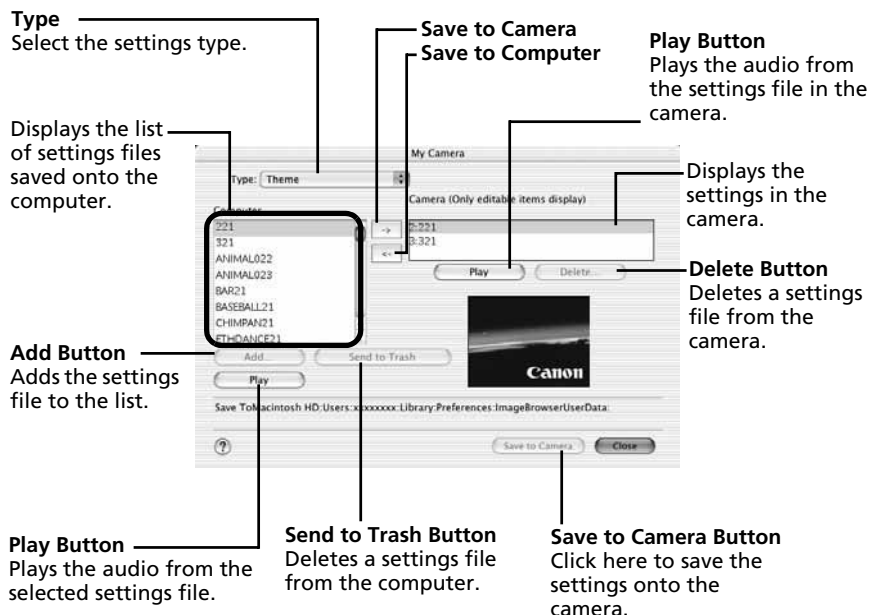
Displaying the My Camera Window

- 1 Connect the camera to the computer, start ImageBrowser and display the Camera Window.
For starting instructions for ImageBrowser, see *Starting ImageBrowser* (p. 50).
- 2 Click [Setup Options] in the Camera Window and select [My Camera].
- 3 Select [Start-up Image, Start-up Sound, Operation Sound, Selftimer Sound and Shutter Sound] and click [OK].



The My Camera Window

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



You can add new files as My Camera Settings to the My Camera window. See *Adding New Data to the My Camera Window* (p. 73).


Saving the My Camera Settings to the Camera



- My Camera Settings can be selected and saved in either of two ways to the camera: individually or in theme sets.
- The “Animal” theme, for example, features an animal in the start-up image and animal calls in each of the sound files. The names of the prepared files for the various My Camera Settings themes all begin with the same root name, such as “Animal~”. For example, the start-up image that starts with “Animal~” shows an animal picture while the similarly named sound files feature animal sounds.



Do not detach the interface cable, turn the camera power off or disconnect the camera from the computer while the My Camera Settings are being saved to the camera or the settings from the camera are being saved to the computer.

- 1** Select the type of setting in the Type list box that you wish to save to the camera.
- 2** Select the setting from the Computer list that you would like to add.
- 3** Select the setting in the Camera list that you would like to change and click the  button.

The Camera list setting will change to the selected file. If a setting for this category has previously been saved to the camera, it will be overwritten.


Repeat steps 1-3 as required.

- 4** Click the [Save to Camera] button.

This concludes the process of 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 these instructions.

Saving the Camera's My Camera Settings to the Computer

- 1** Select the type of setting you wish to save to the computer from the Type list box.
- 2** Select the setting in the Camera list that you wish to save to the computer.
- 3** Click the  button.
- 4** Input a file name to the selected setting and click the [OK] button.

This concludes the process of saving the My Camera Settings to the computer.

Repeat steps 1-4 as required.

Adding New Data to the My Camera Window

Create a new image or sound file and add it to the My Camera window.

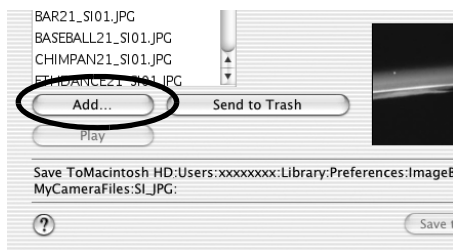
Create an Original Start-up Image File and then Add It

Start by using an image editing program to create the image file that will become the start-up image and save it to the computer. Create the file in the JPEG format at a size of (w) 320 x (h) 240 pixels.

- 1** Open the My Camera window, select the type of setting you wish to add from the Type list box.
- 2** Click the [Add] button.
- 3** Select the file you created and click [Open].

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 My Camera Settings to the Camera* section (p. 72).



Add an Original Sound File

Use a program such as ArcSoft VideoImpression to change the file format to the WAV format after you have copied the sound file. Then proceed with the steps as described in *Create an Original Start-up Image File and then Add It*.



- With Mac OS 9, you can use the standard-issue SimpleSound program to record a sound file.
- Record the sound as an 11.025 kHz or 8.000 kHz, 8 bit, mono sound in the WAV format. The following chart shows standard time lengths for My Camera Sounds.

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
Operation Sound	0.3 sec. or less	0.4 sec. or less
Self-Timer Sound	2.0 sec. or less	2.0 sec. or less

Appendices

This chapter introduces the CD-ROMs supplied with your camera and the procedures for installing the programs. It also explains how to uninstall the programs.

Read the *Troubleshooting* section in this chapter if you experience a problem using the programs.

About the CD-ROMs Supplied with the Solution Disk

Apart from the Canon Digital Camera Solution Disk, additional CD-ROMs containing image editing programs may be supplied with your camera. This topic explains the program features and installation procedures for the programs on these CD-ROMs.



The CD-ROMs supplied with the cameras differ by model. See *Information about Your Camera* (p. 92).

ArcSoft Camera Suite 2.1 CD-ROM

This CD-ROM contains the following programs.

Program	Compatible Operating System					
	Windows				Macintosh	
	98	Me	2000	XP	OS 9	OS X
ArcSoft PhotoStudio	●	●	●	●	●	●
ArcSoft VideoImpression	●*	●	●	●	●	●

The free hard disk space required to install ArcSoft Camera Suite 2.1 is 250 MB or more on a Windows system and 500 MB or more on a Macintosh system.

* Compatible with Windows 98 SE (Second Edition) only.

What Can Be Accomplished with ArcSoft Camera Suite 2.1

Special Effects and Image Editing for Various Purposes

•ArcSoft PhotoStudio

This program can be used to correct image color or brightness, apply special effects, and edit and print images. ArcSoft PhotoStudio is a high-performance, yet easy-to-use photo editing program from ArcSoft, Inc.

Programs for Editing Stills and Movies

•ArcSoft VideoImpression

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


Installing ArcSoft Camera Suite 2.1

Windows


- 1** Close all programs that are running.
- 2** Place the ArcSoft Camera Suite CD-ROM in the drive.
Follow the onscreen messages to install PhotoStudio and VideoImpression.
If the message does not appear automatically, click the Windows [Start] menu, select [My Computer], and double-click the [ARCSOFT] and [Setup.exe] icons .
Windows 2000, Windows Me and Windows 98 users should double-click the [My Computer] icon on the desktop, followed by the [ARCSOFT] and [Setup.exe] icons .

Macintosh

•Installing ArcSoft PhotoStudio

- 1** Close all programs that are running.
- 2** Place the ArcSoft Camera Suite CD-ROM in the drive.
- 3** Open the CD-ROM window and double-click the [Installers], [English] and [PhotoStudio Installer] icons .
Follow the onscreen messages to proceed with the installation.
- 4** Click [Finish] when the message stating that the installation is complete appears.
Continue by installing ArcSoft VideoImpression.

•Installing ArcSoft VideoImpression

- 1** In the CD-ROM window, double-click the [Installers], [English] and [VideoImpression 1.6 Installer] icons .
Follow the onscreen messages to proceed with the installation.
- 2** Restart the computer after the installation is complete.

ArcSoft Camera Suite 1.3 CD-ROM

This CD-ROM contains the following programs.

Program	Compatible Operating System					
	Windows				Macintosh	
	98	Me	2000	XP	OS 9	OS X
ArcSoft PhotoImpression	● *	●	●	●	●	●
ArcSoft VideoImpression	● *	●	●	●	●	●

The free hard disk space required to install ArcSoft Camera Suite 1.3 is 700 MB or more on a Windows system and 500 MB or more on a Macintosh system.

* Compatible with Windows 98 SE (Second Edition) only.

What Can Be Accomplished with ArcSoft Camera Suite 1.3

Special Effects and Image Editing for Various Purposes

•ArcSoft PhotoImpression

This program can be used to apply special effects, and edit and print images in simple steps. It can also be used to create postcards and calendars.



Programs for Editing Stills and Movies

•ArcSoft VideoImpression

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

Installing ArcSoft Camera Suite 1.3


Windows

- 1 Close all programs that are running.
- 2 Place the ArcSoft Camera Suite CD-ROM in the drive.
Follow the onscreen messages to install PhotoStudio and VideoImpression.
If the message does not appear automatically, click the Windows [Start] menu, select [My Computer], and double-click the [ARCSOFT] and [Setup.exe] icons .
Windows 2000 and Windows Me users should double-click the [My Computer] icon on the desktop, followed by the [ARCSOFT] and [Setup.exe] icons .


Macintosh

•Installing ArcSoft PhotoImpression

- 1 Close all programs that are running.
- 2 Place the ArcSoft Camera Suite CD-ROM in the drive.

- 3** Open the CD-ROM window and double-click the [Installers], [English] and [PhotoImpression Installer] icons  .
Follow the onscreen messages to proceed with the installation.
- 4** Click [Finish] when the message stating that the installation is complete appears.
Continue by installing ArcSoft VideoImpression.

•Installing ArcSoft VideoImpression

- 1** In the CD-ROM window, double-click the [Installers], [English] and [VideoImpression 1.6 Installer] icons  .
Follow the onscreen messages to proceed with the installation.
- 2** Restart the computer after the installation is complete.

Starting the ArcSoft Camera Suite Software

The Arcsoft Camera Suite software can be started from ZoomBrowser EX or ImageBrowser.

For Windows

- 1** After you select an image to edit, click [View & Modify] in the main window, followed by [Edit Image] in the next menu.



Set the following settings if the ArcSoft Camera Suite software did not start.

- 1 Click the [Tools] menu in the ZoomBrowser EX main window and select [Preferences].
- 2 Click the [Image Editor] tab in the Preferences dialog and select the program you wish to start.

For Macintosh

- 1** After you select an image to edit, click the [Edit] menu and select the program to start up.



Use the following procedures to start ArcSoft VideoImpression.

- 1 Click the [ImageBrowser] menu in ImageBrowser's Browser Window and select [Preferences] (or click the [Edit] menu and select [Preferences]) and register VideoImpression (first time only).
- 2 After you select an image to edit, click the [Edit] menu, followed by [Start Application] and [VideoImpression] to start VideoImpression.

Manual for the ArcSoft Camera Suite

See inside the [Manuals] folder on each CD-ROM for the manuals.

Uninstalling the Software

The procedures for uninstalling the software are only required when you wish to delete the programs from your computer or when reinstallation is required to fix corrupted files.

Uninstalling the Software (Windows)

Software Installed from the Canon Digital Camera Solution Disk

This explanation uses ZoomBrowser EX to demonstrate how to uninstall a program.

- 1 Click the Windows [Start] menu and select [Programs] or [All Programs], followed by [Canon Utilities], [ZoomBrowser EX] and [ZoomBrowser EX Uninstall].

The uninstall utility will start and remove ZoomBrowser EX.



- You can remove other programs with the same procedures.
- PhotoRecord can be uninstalled by clicking the Windows [Start] menu and selecting [Programs] or [All Programs], followed by [Canon PhotoRecord] and [PhotoRecord Uninstall].

Uninstalling the Other Supplied Programs

ArcSoft PhotoStudio, PhotoImpression and VideoImpression

Uninstall these programs by clicking the Windows [Start] menu and selecting [Programs] or [All Programs], followed by [ArcSoft Camera Suite] and [Uninstall].

Uninstalling the USB Driver (Windows 2000, Windows Me, and Windows 98 only)

Use the following procedures to uninstall the USB driver.



It is essential to note that you will not be able to download images if you uninstall the USB driver.



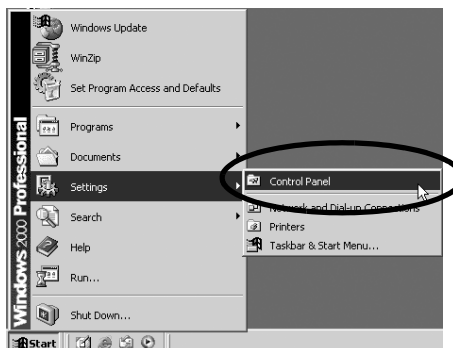
You do not need to uninstall the USB driver with Windows XP.

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

For interface cable connection instructions, see *Information about Your Camera* (p. 92). A dialog allowing you to select which application program to start will display.

- 2** Click the [Cancel] button.
If ZoomBrowser EX is started, close it.

- 3** Click the [Start] menu and select [Settings], followed by [Control Panel].

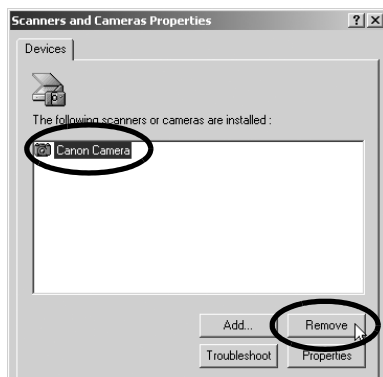


- 4** Double-click the [Scanners and Cameras] icon or folder.



- 5** Delete your camera model name or [Canon Camera] in the [Scanners and Cameras Properties] dialog.

Windows Me users should delete their camera model or [Canon Camera] in the [Scanners and Cameras] folder.



Windows 2000/Windows 98

Select your camera model name or [Canon Camera] and click [Remove].

Windows Me

Select your camera model name or [Canon Camera], right-click the mouse and select [Delete].



If your camera model name does not appear here, see the *Camera not detected, Events dialog won't display or images will not download to the computer* (p. 84) of the *Troubleshooting* section.

- 6** Click the Windows [Start] menu and select [Programs] or [All Programs], followed by [Canon Utilities], [Camera TWAIN Driver x.x] and [Uninstall TWAIN Driver]. (A version number appears in place of the "x.x".)
- Windows 2000, Windows 98: Perform Step 6 with no substitutions.
 - Windows Me: Substitute the following for the underlined portions of Step 6. [Camera WIA Driver x.x], [Uninstall WIA Driver]

The uninstall process will start.

To connect the camera to the computer and download after this point, use the following procedures.

1. Reinstall the driver.
2. Connect the camera to the computer with the interface cable.

Uninstalling the Software (Macintosh)

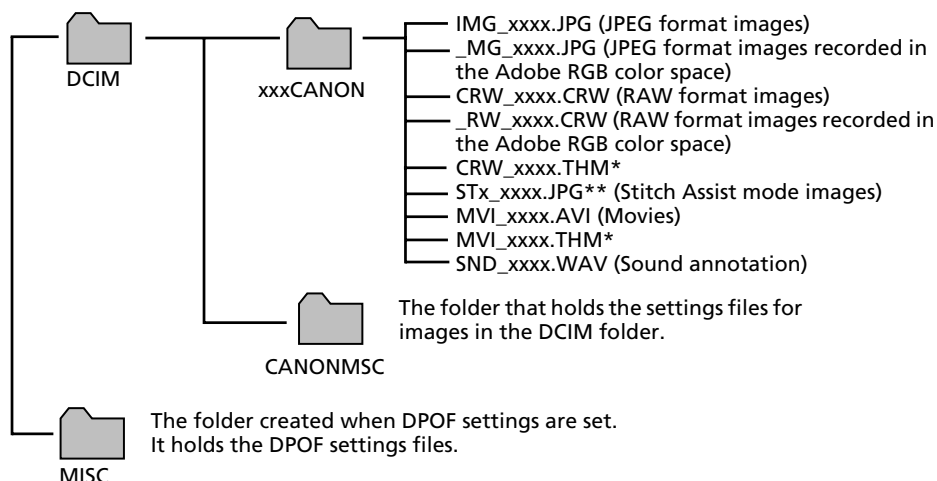
Uninstall the programs by dragging the application's folder (the folder in which it was installed) into the Trash, and then empty the Trash.



Please be careful not to accidentally delete any folders with downloaded images that may be contained within the application folder.

Memory Card Folder Structure

The images on a memory card are placed in the [DCIM] folder in subfolders labeled [xxxCANON], where the "xxx" represents a number in the range 100 - 998.



- *Files with the THM extension are the thumbnail image files for the camera's index replay mode.
- The "xxxx" in file names represent four-digit numbers.
- **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]...
- All folders except the "xxxCANON" folders contain image settings files. Do not open or delete them.

Troubleshooting

Please read this section if you encounter a problem using the software.

Start by Checking This

Investigate the following points first if you encounter a problem.



Does your computer meet the following requirements?

Computer systems that fail to meet the following requirements to accommodate a camera connected by an interface cable are not supported. Please acquire the necessary system.

- Built-in USB port on a system pre-installed with Windows XP, Windows 2000, Windows Me, or Windows 98 (First or Second Edition)
- System with a genuine Apple Computer built-in USB port



Is the camera correctly connected to the computer?

See *Information about Your Camera* (pp. 92 - 100) for the correct connection procedures. Also check to ensure that you are using the correct cable and that it is securely attached at both ends.



Is the camera set to the playback mode? (some models only)

Some models require the camera to be set to the playback mode to transfer data. See *Information about Your Camera* (pp. 92 - 100) for details.



Is the battery sufficiently charged?

Check the battery charge if you are powering the camera with a battery. You are recommended to use a household power source (AC adapter) to power the camera when it is connected to a computer (if available for your camera model).

Problems

Try the suggested solutions to the common problems listed below.



USB driver installation not proceeding well (Windows)

Uninstall the driver (p. 79) before reinstalling it with the procedures in *Installing the Software and USB Driver* (p. 10).

? Add New Hardware Wizard or New Hardware Found (Windows 2000) Wizard displays when the camera is connected to the computer with an interface cable.

Click [Cancel] to close the window. Temporarily disconnect the camera from the computer. Next, read *Start by Checking This* on the previous page and resolve the problem.

? Images won't download into a TWAIN-compliant program. (Camera and computer connected via interface cable (Windows 2000, Windows 98))

Right-click the CameraWindow (Launcher) icon () in the task tray at the screen's bottom right to close it.

? Camera not detected, Events dialog won't display or images will not download to the computer (when camera is connected to the computer via an interface cable)

Cause 1:

There is a problem with one of the items in the *Start by Checking This* section (p. 83).

Solution:

Resolve the problem.

Cause 2:

The USB driver is not installed. (Windows only)

Solution:

Install it with the procedures in *Installing the Software and USB Driver* (p. 10).

Cause 3:

The USB driver is not correctly installed. (Windows only)

Solution:

Uninstall the driver (p. 79) before reinstalling it with the procedures in *Installing the Software and USB Driver* (p. 10).

Cause 4:

The camera may have been recognized as another device under the following circumstances. (Windows only)

- The camera was connected to the computer before the USB driver was installed.
- The [Scanners and Cameras] icon or the [Scanners and Cameras] folder cannot be found in the [Control Panel] or the [Printers and Other Hardware] window.

- Your camera model name, [Canon Camera] or a camera icon does not display in the [Scanners and Cameras Properties] dialog or the [Scanners and Cameras] folder.

Solution 1:

Start with the following procedures.

Install the USB driver with the procedures in *Installing the Software and USB Driver* (p. 10). Then connect the camera to the computer with the interface cable and prepare it to transfer data. If the USB driver is already installed, uninstall it first and then reinstall it.

Solution 2:

If the problem is not resolved with the procedures in Solution 1, continue by implementing the following procedures. The specific steps are explained below.

1. Check to see if the camera is being recognized as an “other” device.
2. Delete the driver and the setup information files if it is being recognized as an “other” device.
3. Reinstall the driver.


This section explains the specific steps for each operating system.

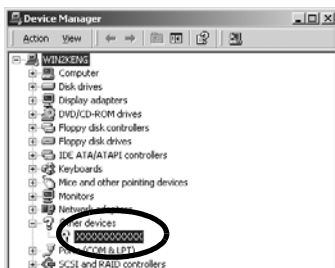
Windows XP and Windows 2000



Users of Windows XP and Windows 2000 must first log in as an Administrator (computer system administrator) to delete a driver.

<Check to see if the camera is being recognized as an “other” device and delete the driver if it is.>

1. **Windows XP:** Click the [Start] menu, followed by [Control Panel], [Performance and Maintenance] and [System].
Windows 2000: Click the [Start] menu and select [Settings] and [Control Panel]. Double-click the [System] icon.
2. Click the [Hardware] tab, followed by [Device Manager].
3. Click the  symbol beside the [Other devices] and/or [Imaging devices] category. Your camera model name or [Canon Camera] will display in these categories if it is being recognized as an “other” device.





There are other potential reasons for the problem if the “Other devices” or “Imaging devices” categories do not appear or your camera model name or [Canon Camera] does not appear. Proceed to Step 6, temporarily quit the procedures and investigate the other potential causes.

- 4. Select your camera model name or [Canon Camera], right-click and select [Delete].
- 5. Click [OK] in the confirmation dialog.
Delete all instances of your camera model name or [Canon Camera] if it appears in one or more places in the [Other devices] or [Imaging devices] categories.
- 6. Close the System Properties window.



Step 7 and above are not required for Windows XP.

< Delete the setup information files>

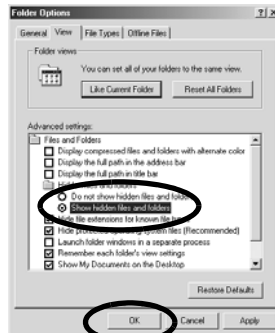
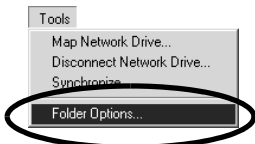
- 7. Double-click the [My Computer] icon on the desktop, followed by the [C:] drive, [Winnt] folder and [Inf] folder.

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

Use the following procedures to show all files and folders.

- 1. Open the [Winnt] folder.
- 2. Click the [Tools] menu and select [Folder Options].
- 3. Click the [View] tab.
- 4. In the [Files and Folders] category in the Advanced Settings section, set [Hidden files and folders] to [Show hidden files and folders]. Remove the check marks from [Hide file extensions for known file types] if it is present.
- 5. Click [OK] to close the dialog.

This will make the hidden files and folders visible.



8. Look for files for Canon digital cameras that start with [Oem*].
The "*" represents a number, such as 0 or 1.
[Oem*] files come in pairs of [Oem*.inf] and [Oem*.pnf] files. (For example, [Oem0.inf] and [Oem0.pnf]).
9. Double-click the [Oem*] files to check their contents.
Double-clicking an [Oem*.inf] file will open it in the Windows Notepad program. Look for [;***Canon Camera Driver Setup File***] in the first line.
Note down the names of these files.



Several sets of [Oem*] files may be present in the [Inf] folder. Open up each file to confirm that it is an [Oem*] file for Canon digital cameras before you do anything with the file.

10. Delete the [Oem*] file set.
Delete the [Oem*.inf] and [Oem*.pnf] file for Canon digital cameras that you noted down in Step 9.



The Inf folder contains numerous files critical to the computer's operation. Be extremely careful to delete the correct files. If you delete the wrong files, you may be unable to restart Windows.

<Reinstall the driver.>

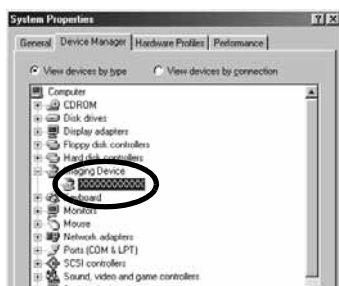
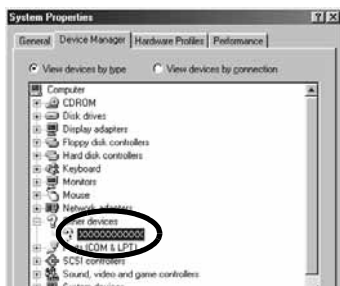
11. Reinstall the driver with the procedures in *Installing the Software and USB Driver* (p. 10).

Windows Me/Windows 98

<Check to see if the camera is being recognized as an "other" device and delete the driver if it is.>

1. Click the [Start] menu and select [Settings], followed by [Control Panel].
Double-click the [System] icon.
This will display the System Properties window.
2. Click the [Device Manager] tab.

- Click the **+** symbol beside the [Other devices] and/or [Imaging devices] category. Your camera model name or [Canon Camera] will display in these categories if it is being recognized as an “other” device.



There are other potential reasons for the problem if the “Other devices” or “Imaging devices” categories do not appear or your camera model name or [Canon Camera] does not appear. Proceed to Step 6, temporarily quit the procedures and investigate the other potential causes.

- Select your camera model name or [Canon Camera] and click [Remove].
- Click [OK] in the confirmation dialog.
Delete all instances of your camera model name or [Canon Camera] if it appears in one or more places in the [Other devices] or [Imaging devices] categories.
- Click [OK] to close the System Properties window.

< Delete the setup information files.>

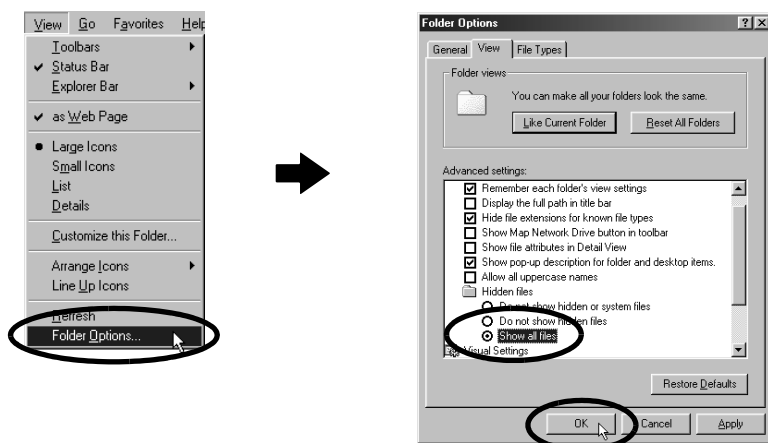
- Double-click the [My Computer] icon on the desktop, followed by the [C:] drive, [Windows] folder and [Inf] folder.

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

Use the following procedures to show all files and folders.

1. Windows 98: Click the [View] menu and select [Folder Options].
Windows Me: Click the [Tools] menu and select [Folder Options].
2. Click the [View] tab.
3. Windows 98: Set the [Hide files] section to [Show all files].
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.



8. Find and delete the [Drvdata.bin] and [Drvidx.bin] files.
9. In the [Inf] folder, double-click the [Other] folder to open it.
10. Find and delete the [Canon.IncCAP_xxx.Inf] file. (The xxx represents numerals.)



You do not need to delete anything if none of the above files are contained in the [Other] folder.



The [Inf] folder contains numerous files critical to the computer's operation. Be extremely careful to delete the correct files. If you delete the wrong files, you may be unable to restart Windows.

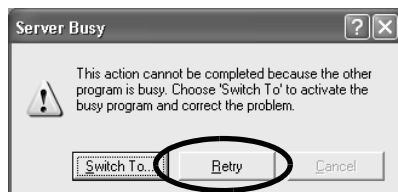
<Reinstall the driver>

11. Reinstall the driver with the procedures in *Installing the Software and USB Driver* (p. 10).

"Server Busy" Displays During Image Download

Use the following procedures if a window similar to the one below appeared when you downloaded images with ZoomBrowser EX running on Windows XP.

1. Click [Retry].
If this screen appears again, click [Retry] until it disappears.



Zooming Images in ZoomBrowser EX is Slow or Not Working

Some graphics cards or settings may cause the display of zoomed images in ZoomBrowser EX to slow down or malfunction. If this occurs, set your computer display's Hardware acceleration setting to a lower setting.

1. Click the Windows [Start] menu, followed by [Control Panel] and [Appearance and Themes].
With Windows 2000, Windows Me, or Windows 98, click the [Start] menu and select [Settings], followed by [Control Panel].
2. Click the [Display] icon, followed by the [Settings] tab, [Advanced] button and [Troubleshoot] tab.
With Windows 2000, click the [Display] icon, followed by the [Settings] tab, [Advanced] button and [Troubleshoot] tab.
With Windows Me or Windows 98, click the [Display] icon, followed by the [Settings] tab, [Advanced] button and [Performance] tab.
3. Set the [Hardware acceleration] to a setting below [Full] and click [OK].
4. Restart the computer if prompted.

If You Were Using ZoomBrowser EX Version 2 or 3

Take the following steps if you were using ZoomBrowser EX version 2 or 3 with Windows.

If Titles and Comments Were Attached to Your Images.

Take the following steps to display in version 4 the titles and comments you input in version 2/3.

1. Use Windows Explorer to open the [Program] folder within the folder in which you installed ZoomBrowser EX 4.
(e.g. C:\Program Files\Canon\ZoomBrowser EX\Program)
2. Double-click [dbconverter.exe] found in this folder to start this utility.
3. Select the database file you were using up to this point and click the [Start] button.
(e.g. C:\Program Files\Canon\ZoomBrowser EX\Database\My Database.zbd)

This will display the titles and comments input in the earlier versions in the comments section of ZoomBrowser EX 4.

If You Had Images in a Folder Below the Program Files Folder

Image files in the [Program Files] folder or a subfolder cannot be displayed in ZoomBrowser EX 4 from that location. To display these files, first perform steps 1-3 above and then carry on with Step 4.

4. Use Windows Explorer to copy the folder and the images it contains from the [Program Files] folder to another folder.
(e.g. Copy the image folders in C:\Program Files\Canon\ZoomBrowser EX\Library One to another location.)

The moved folder images can now be selected and displayed with ZoomBrowser EX 4.

Information about Your Camera

The software package and the procedures for connecting to a computer and preparing for data transfers vary between camera models. Certain software functions may also not be supported by some camera models.
Read this section to confirm the capabilities of your camera model.

Information Common to All Models

See the respective page for your camera model for information specific to that model (pp. 94 - 100).

Programs and Compatible Operating Systems

The CD-ROM labeled “Canon Digital Camera Solution Disk” is provided with all models. It contains the following programs.

Program	Compatible Operating System					
	Windows				Macintosh	
	98	Me	2000	XP	OS 9	OS X
ZoomBrowser EX	●				—	
ImageBrowser	—				●	
TWAIN Driver	●	—	●	—	—	
WIA Driver	—	●	—	—	—	
PhotoRecord	●				—	
PhotoStitch	●				●	

Connecting the Camera to a Computer



Ensure that you have installed the software from the supplied Canon Digital Camera Solution Disk before you connect the camera to the computer.

Item to Prepare

- Your camera and computer
- Canon Digital Camera Solution Disk
- Interface cable supplied with the camera



- Use the interface cable to attach the camera directly to a USB port on the computer, not through a USB hub. The connection may not operate correctly through a USB hub.
- The connection may not operate correctly if you are using other USB devices, excluding USB mice or keyboards, at the same time as the camera. If this occurs, disconnect the other devices from the computer and try reconnecting the camera.
- Do not connect two or more cameras at the same time 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 interface 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 (sleep) mode. Please refer to your computer manual for instructions regarding the standby (sleep) mode.



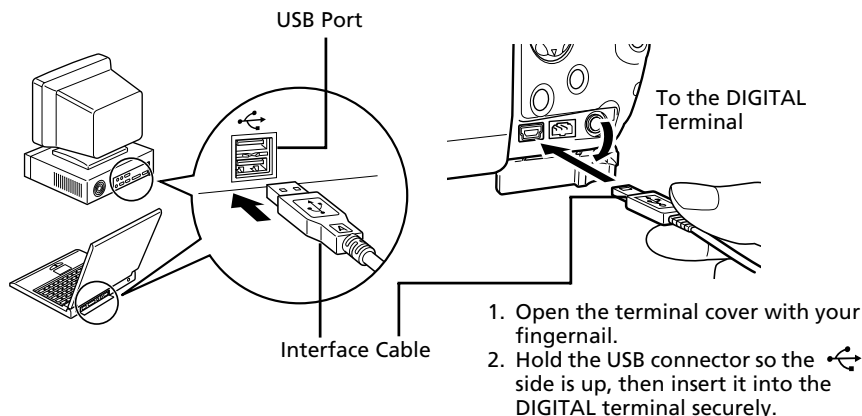
You are recommended to power the camera from a household power source (AC adapter) when connecting to a computer (if available for your camera model). Ensure that you use fully charged batteries if you will not be using a household power source.

See the page (pp. 94 - 100) for your specific model for information about connecting the camera to the computer.

PowerShot Pro 1

How to Connect the Camera to a Computer and Prepare to Transfer Data

- 1 Attach the supplied interface cable to the computer's USB port and the camera's DIGITAL terminal as shown below.



The camera and computer will automatically set themselves to the correct mode for communicating when they are connected.

CD-ROMs in the Package

- Canon Digital Camera Solution Disk
- ArcSoft Camera Suite 2.1

See *ArcSoft Camera Suite 2.1 CD-ROM* (p. 75) for information about the features and installation procedures for the programs on the disk.

Non-Supported Programs and Features

Does not support with the Direct Transfer function.

Images Recorded in the Adobe RGB Color Space

- * The images will appear desaturated when displayed in ZoomBrowser EX/ImageBrowser.
- * The image printouts will appear desaturated when printed from PhotoRecord/ImageBrowser.



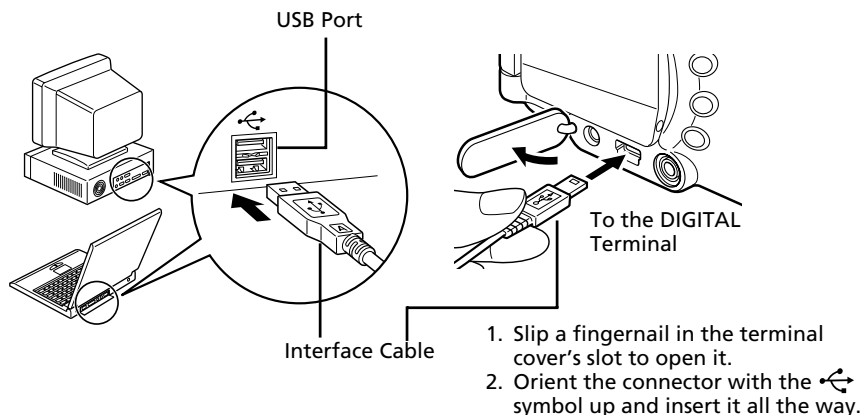
Warning about Operating the Camera Shutter from the Computer (Remote Shooting)

In macro mode, it may be difficult to focus when the zoom is set to the maximum telephoto setting. Set the zoom to maximum wide angle to record.

PowerShot S1 IS

How to Connect the Camera to a Computer and Prepare to Transfer Data

- 1 Attach the supplied interface cable to the computer's USB port and the camera's DIGITAL terminal as shown below.



The camera and computer will automatically set themselves to the correct mode for communicating when they are connected.

CD-ROMs in the Package

• Canon Digital Camera Solution Disk

• ArcSoft Camera Suite 2.1

See *ArcSoft Camera Suite 2.1 CD-ROM* (p. 75) for information about the features and installation procedures for the programs on the disk.

Non-Supported Programs and Features

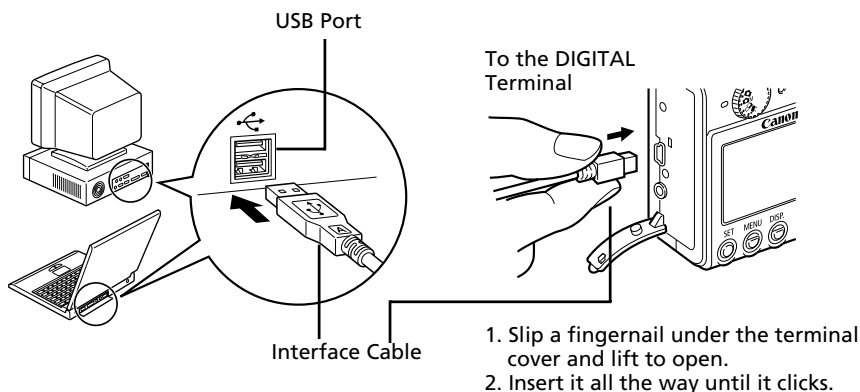
Does not support with the Direct Transfer function.

The camera does not record RAW images.

PowerShot S500 DIGITAL ELPH/DIGITAL IXUS 500

How to Connect the Camera to a Computer and Prepare to Transfer Data

- 1 Attach the supplied interface cable to the computer's USB port and the camera's DIGITAL terminal as shown below.



- 2 Set the mode switch to the playback mode and turn the camera's power on. This will prepare the camera to exchange data with the computer.

CD-ROMs in the Package

•Canon Digital Camera Solution Disk

•ArcSoft Camera Suite 1.3

See *ArcSoft Camera Suite 1.3 CD-ROM* (p. 77) for information about the features and installation procedures for the programs on the disk.

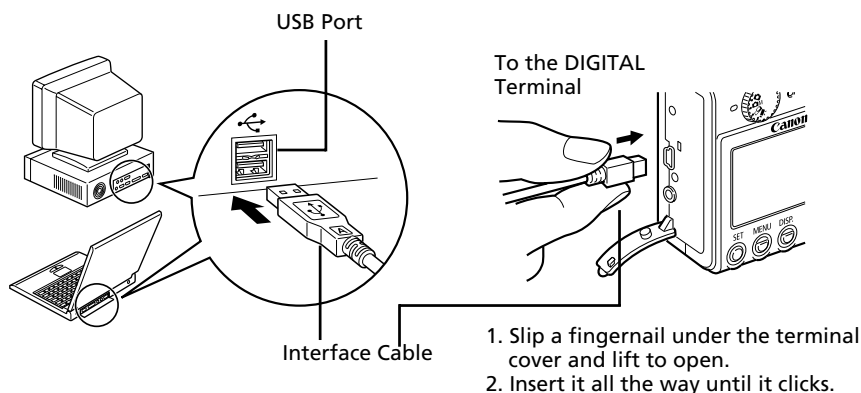
Non-Supported Programs and Features

The camera does not record RAW images.

PowerShot S410 DIGITAL ELPH/DIGITAL IXUS 430

How to Connect the Camera to a Computer and Prepare to Transfer Data

- 1 Attach the supplied interface cable to the computer's USB port and the camera's DIGITAL terminal as shown below.



- 2 Set the mode switch to the playback mode and turn the camera's power on. This will prepare the camera to exchange data with the computer.

CD-ROMs in the Package

•Canon Digital Camera Solution Disk

•ArcSoft Camera Suite 1.3

See *ArcSoft Camera Suite 1.3 CD-ROM* (p. 77) for information about the features and installation procedures for the programs on the disk.

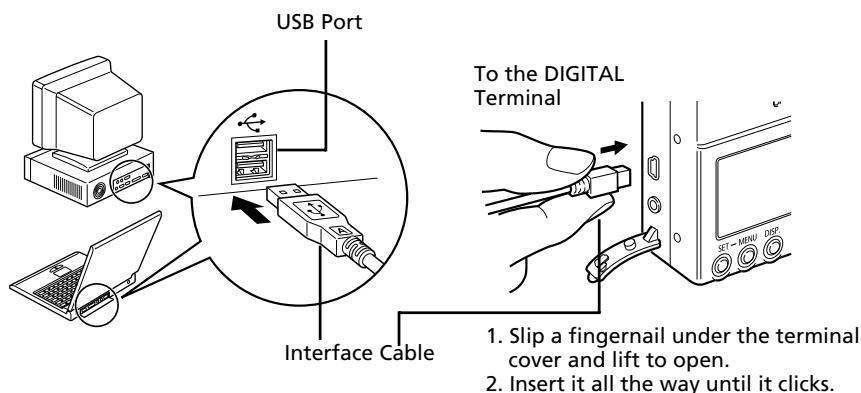
Non-Supported Programs and Features

The camera does not record RAW images.

PowerShot SD110 DIGITAL ELPH/DIGITAL IXUS II s

How to Connect the Camera to a Computer and Prepare to Transfer Data

- 1 Attach the supplied interface cable to the computer's USB port and the camera's DIGITAL terminal as shown below.



- 2 Set the mode switch to the playback mode and turn the camera's power on. This will prepare the camera to exchange data with the computer.

CD-ROMs in the Package

- Canon Digital Camera Solution Disk

- ArcSoft Camera Suite 1.3

See *ArcSoft Camera Suite 1.3 CD-ROM* (p. 77) for information about the features and installation procedures for the programs on the disk.

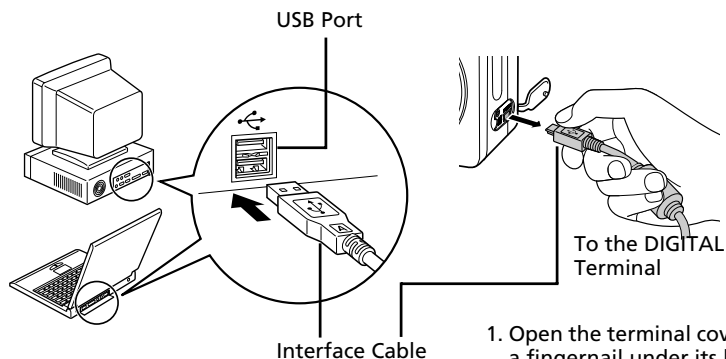
Non-Supported Programs and Features

The camera does not record RAW images.

PowerShot A75

How to Connect the Camera to a Computer and Prepare to Transfer Data

- 1 Attach the supplied interface cable to the computer's USB port and the camera's DIGITAL terminal as shown below.



1. Open the terminal cover by slipping a fingernail under its left edge.
2. Insert it all the way until it clicks.

- 2 Set the mode switch to the playback mode and turn the camera's power on. This will prepare the camera to exchange data with the computer.

CD-ROMs in the Package

- Canon Digital Camera Solution Disk
- ArcSoft Camera Suite 1.3

See *ArcSoft Camera Suite 1.3 CD-ROM* (p. 77) for information about the features and installation procedures for the programs on the disk.

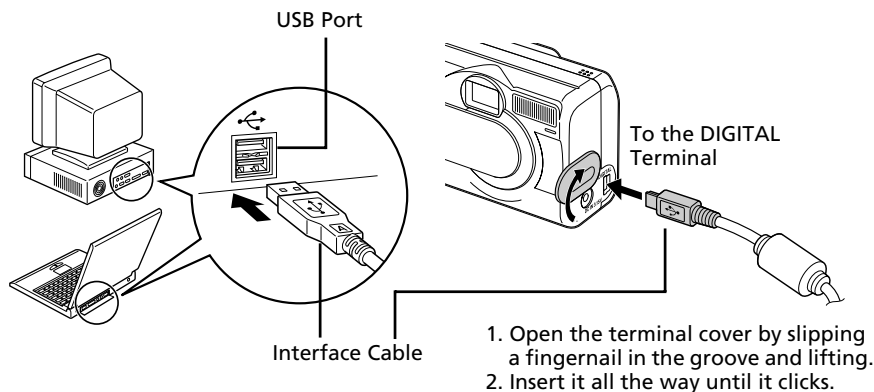
Non-Supported Programs and Features


The camera does not record RAW images.

PowerShot A310

How to Connect the Camera to a Computer and Prepare to Transfer Data

- 1 Attach the supplied interface cable to the computer's USB port and the camera's DIGITAL terminal as shown below.



- 2 Press the  (ON) button.
This will prepare the camera to exchange data with the computer.

CD-ROMs in the Package

- Canon Digital Camera Solution Disk
- ArcSoft Camera Suite 1.3

See *ArcSoft Camera Suite 1.3 CD-ROM* (p. 77) for information about the features and installation procedures for the programs on the disk.

Non-Supported Programs and Features

The camera does not record RAW images.

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