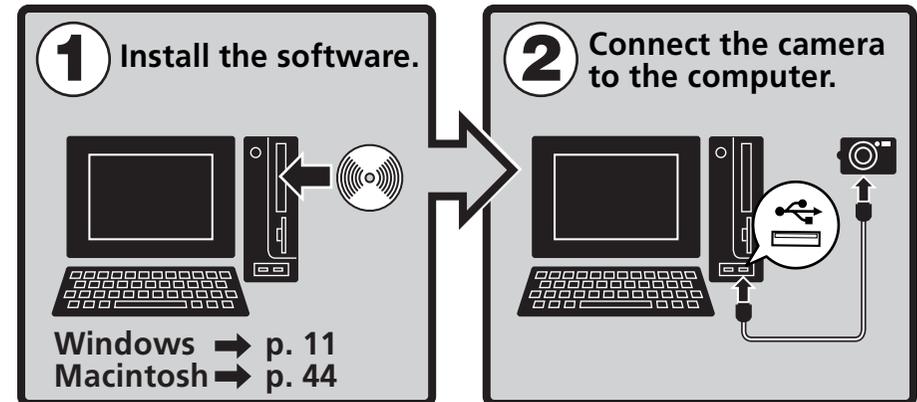




Software Starter Guide

(For the Canon Digital Camera Solution Disk Version 30)

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



- This guide explains how to install the software programs and briefly introduces their functions and operating procedures.

You may be able to download images without installing the software programs if you use certain operating system software (p. 82). (Excludes Windows 2000)



SAFETY PRECAUTIONS

The precautions noted within this guide are intended to instruct you in the safe and correct use of the products and to prevent injuries or damage to yourself, other persons and property. Please read and ensure that you understand them before proceeding to other sections of the guide.

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

⚠ Warnings

- Do not play the supplied CD-ROM(s) in any CD player that does not support data CD-ROMs. Playing the CD-ROM(s) in an audio CD player (music player) could damage the speakers. It is also possible to suffer from hearing loss from listening with headphones to the loud sounds of a CD-ROM played on a music CD player.

Disclaimer

- While every effort has been made to ensure that the information contained in this guide is accurate and complete, no liability can be accepted for any errors or omissions. Canon reserves the right to change the specifications of the hardware and software described herein at any time without prior notice.
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- Canon makes no warranties for damages resulting from corrupted or lost data due to a mistaken operation or malfunction of the camera, the software, the memory cards, personal computers, peripheral devices, or use of non-Canon memory cards.

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Canon Customer Support

For Canon Customer Support contacts, please see the customer support list supplied with your camera.

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Table of contents

Read This First **3**

It's so Simple! Make Prints Right at Home Like a Pro	4
Unbounded Possibilities with Entertaining Software	6
System Requirements	8
Programs and Compatible Operating Systems	9
Before You Connect the Camera to the Computer	10

Using the Software on the Windows Platform **– Preparations** **11**

Installing the Software and USB Driver	11
--	----

Using the Software on the Windows Platform **– The Basics** **16**

Downloading Images to the Computer	16
Printing Images	21

Using the Software on the Windows Platform **– Advanced Techniques** **24**

The ZoomBrowser EX Windows	24
ZoomBrowser EX Features	30
Replaying Movies	33
Editing Movies	34
Operating the Shutter Remotely (Remote Shooting)	35
Merging Panoramic Images - PhotoStitch	38
Enjoy Customizing Your Camera with the My Camera Settings ...	39

Using the Software on the Macintosh Platform **– Preparations** **44**

Installing the Software	44
-------------------------------	----

Using the Software on the Macintosh Platform **– The Basics** **46**

Downloading Images to the Computer	46
Printing Images	50

Using the Software on the Macintosh Platform – Advanced Techniques	52
The ImageBrowser Windows	52
ImageBrowser Features	58
Replaying Movies	61
Editing Movies	62
Operating the Shutter Remotely (Remote Shooting)	63
Merging Panoramic Images - PhotoStitch	66
Enjoy Customizing Your Camera with the My Camera Settings ...	67
Appendices	72
Uninstalling the Software	72
Memory Card Folder Structure	75
Troubleshooting	76
Downloading Images without Installing the Software	82
Index	83

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 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/>

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.

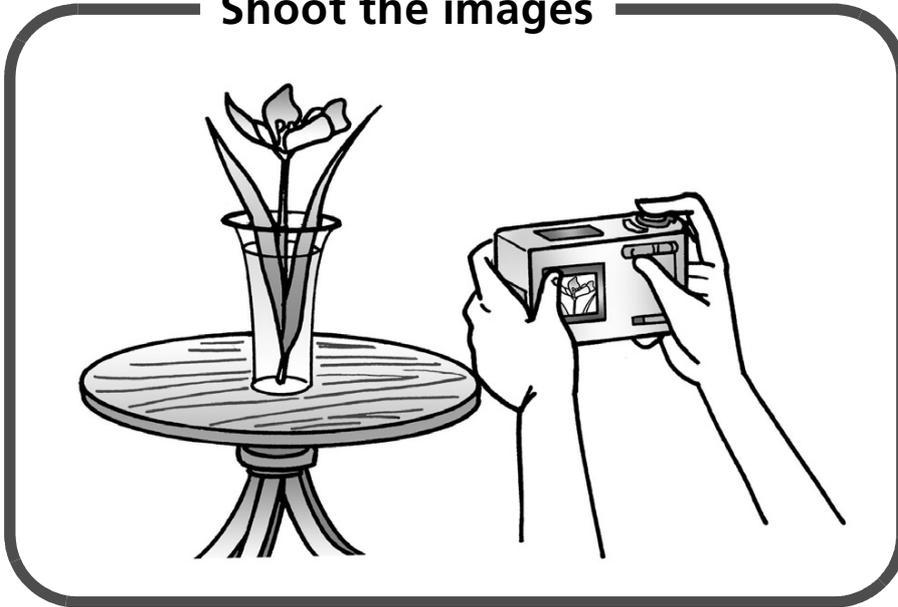
It also lists the computer system configurations required to use the software.

About this Guide

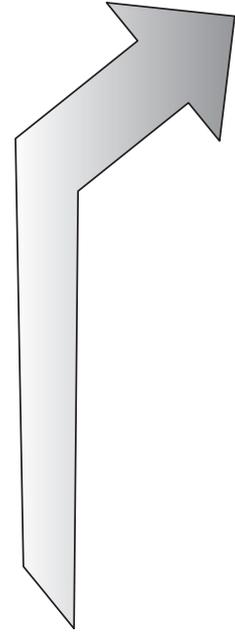
- The explanations in this guide are based on Windows XP and Mac OS X v10.3. If you are using another version of these operating systems, the actual screen contents and procedures may vary slightly from those shown.
- The following terms are used in this guide.
 - Mac OS X is used for Mac OS X (v10.3-v10.4)

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

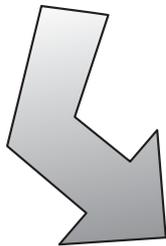
Shoot the images



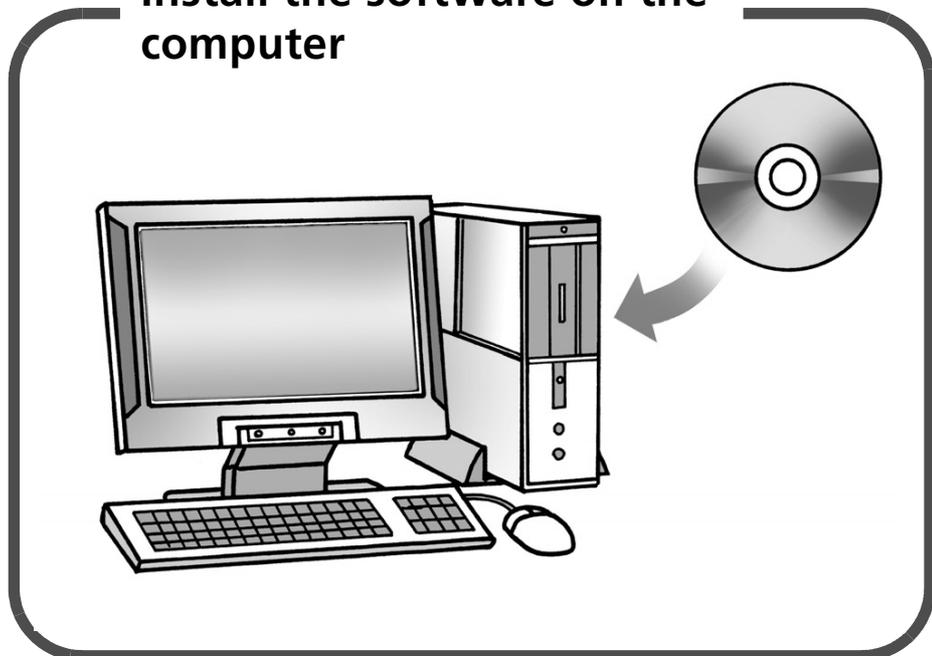
See your *Camera User Guide* for shooting instructions.



Install the software on the computer



Windows (p. 11)
Macintosh (p. 44)



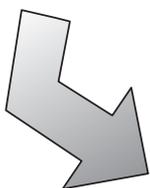
Just install the software once at the beginning.

Connect the camera to the computer



Precautions for Connecting the Camera to the Computer (p. 10)

See your *Camera User Guide* for connecting instructions.



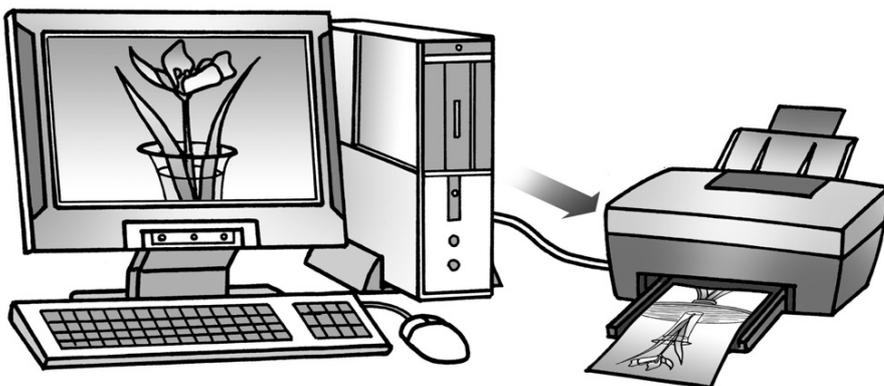
Download images to the computer



Windows (p. 16)
Macintosh (p. 46)



Print the images



Windows (p. 21)
Macintosh (p. 50)

Unbounded Possibilities with Entertaining Software

Print a Variety of Layouts

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



With One Photo per Page Print, printing images is also easy.



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

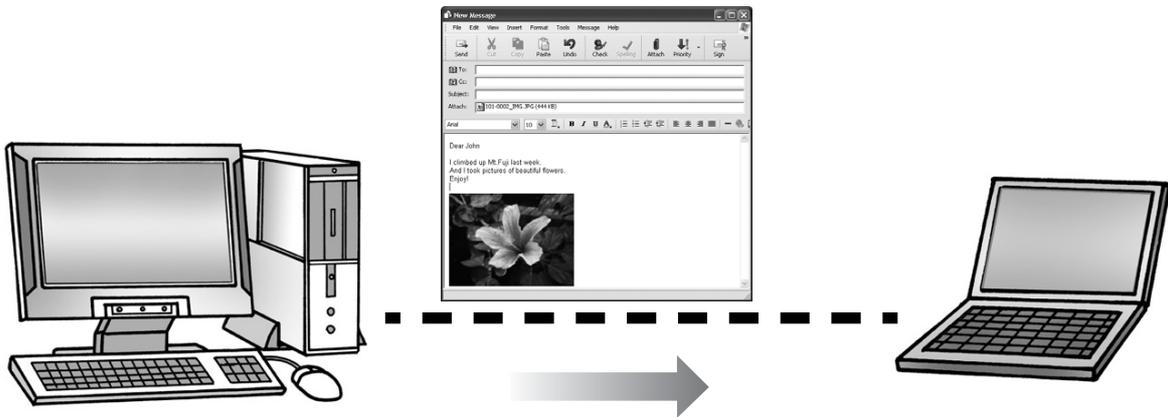
Stitch a Panorama Together

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



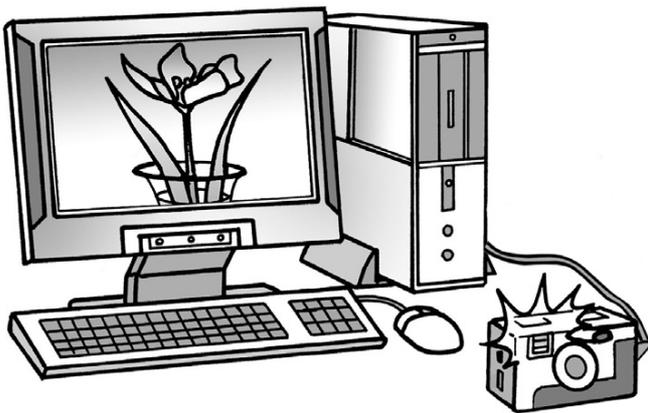
Send an Image as an E-mail Attachment

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

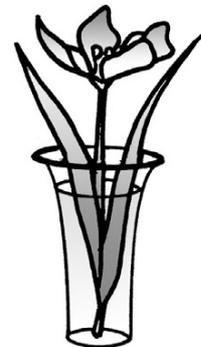


Operate the Camera Shutter from the Computer (Remote Shooting)

You can use ZoomBrowser EX (Windows) or ImageBrowser (Macintosh) to operate the camera shutter from the computer to shoot images (Remote Shooting). The recorded images are downloaded directly to the computer.



The shutter is operated from the computer.



Edit a Movie

You can edit movies, linking movies and stills that have been downloaded to the computer, adding text, such as titles, adding background music or applying various special effects.

Extract Stills from Movies

You can extract a still from the displayed movie and save it as a new image file. You can also specify a range of frames and extract multiple stills.

System Requirements

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

Windows

OS	Windows 2000 Service Pack 4 Windows XP (including Service Pack 1 and Service Pack 2) Windows Vista
Computer Model	The above OS should be pre-installed on computers with built-in USB ports.
CPU	Windows 2000/Windows XP: Pentium 500 MHz or higher Windows Vista: Pentium 1.3 GHz or higher
RAM	Windows 2000/Windows XP: 256 MB or more Windows Vista: 512 MB or more
Interface	USB
Free Hard Disk Space	<ul style="list-style-type: none"> • Canon Utilities <ul style="list-style-type: none"> - ZoomBrowser EX: 200 MB or more - PhotoStitch: 40 MB or more • Canon Camera TWAIN Driver: 25 MB or more
Display	1,024 x 768 pixels/High Color (16 bit) or better

Macintosh

OS	Mac OS X (v10.3-v10.4)
Computer Model	The above OS should be pre-installed on computers with built-in USB ports.
CPU	PowerPC G3/G4/G5 or Intel Processor
RAM	256 MB or more
Interface	USB
Free Hard Disk Space	<ul style="list-style-type: none"> • Canon Utilities <ul style="list-style-type: none"> - ImageBrowser: 200 MB or more - PhotoStitch: 40 MB or more
Display	1,024 x 768 pixels/32,000 Colors or better



- A CD-ROM drive is required to install the software.
- Even when system requirements are met, not all computer functions can be guaranteed.
- A sound card is required to play movie file audio tracks under Windows.
- With Windows, QuickTime is required to save images merged with PhotoStitch as QuickTime VR images. It is also required to play and edit movies on the Windows 2000 platform.
- Macintosh software cannot be used on disks formatted in the UFS (Unix File System) format.

Programs and Compatible Operating Systems

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

Windows Programs

Program \ Compatible OS	Windows 2000	Windows XP ^{*2}	Windows Vista ^{*2}	Major Functions
ZoomBrowser EX	●	●	●	Downloading, displaying, organizing and editing images
TWAIN Driver	●	—	—	Driver for Canon brand cameras (Windows 2000)
PhotoStitch ^{*1}	●	●	●	Merging images to make panoramas
EOS Utility	●	●	— ^{*3}	Downloading images and other functions for EOS DIGITAL series cameras

*1 Can be started from within ZoomBrowser EX.

*2 Installation of the driver is not required.

*3 Images are downloaded using ZoomBrowser EX.

Macintosh Programs

Program \ Compatible OS	Mac OS X	Major Functions
ImageBrowser	●	Downloading, displaying, organizing and editing images
PhotoStitch ^{*1}	●	Merging images to make panoramas
EOS Utility	●	Downloading images and other functions for EOS DIGITAL series cameras

*1 Can be started from within ImageBrowser.

Before You Connect the Camera to the Computer



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

Precautions for Connecting the Camera to the Computer

- The connection may not operate correctly if you attach the camera to the computer with an interface cable via a USB hub.
- The connection may not operate correctly if you are using other USB devices, excluding USB mice or keyboards, at the same time 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. 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 cable. 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. Ensure that you use fully charged batteries if you will not be using a household power source.
- See the *Camera User Guide* for procedures connecting the camera to the computer.

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.



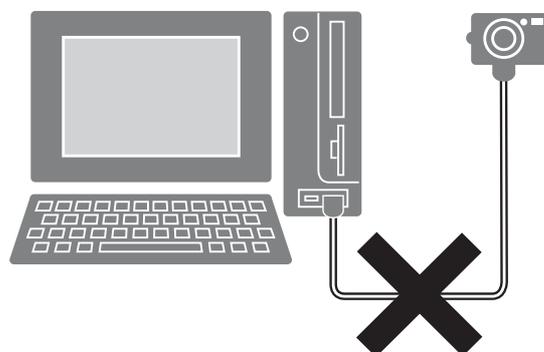
- You must install the software before you connect the camera to the computer.
- You must have authorization as a Computer System Administrator to install programs.

Items to Prepare

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

Installation Procedures

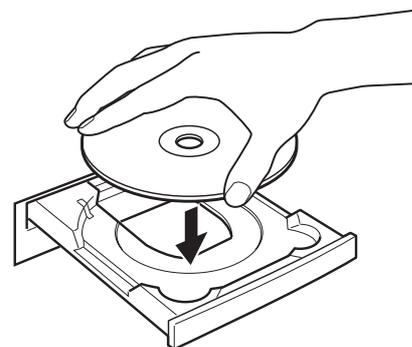
- 1** Confirm that the camera is **NOT** connected to the computer.
If it is, disconnect the cable. The software cannot be properly installed if the camera is connected to the computer at the start.
- 2** Close any programs that are running.



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

If the [User Account Control] window appears, follow the on-screen instructions to proceed.

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 Vista

1. Select [Computer] from the [Start] menu.
2. Right-click the CD-ROM icon and select [Open].
3. Double-click the [SETUP.EXE]*  icon.
4. When [User Account Control] window displays, follow the on-screen instructions to proceed.

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

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 [Easy Installation] button.

To individually select the software to install, click [Custom Installation].

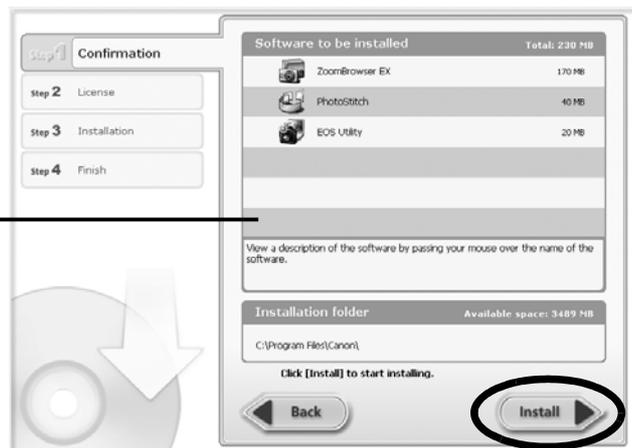


- 5** If other software is running, close each program before clicking [OK].



- 6** Review the installation settings and click [Install].

The items displayed here differ according to the software installed.



When [Custom Installation] is Selected with Windows 2000

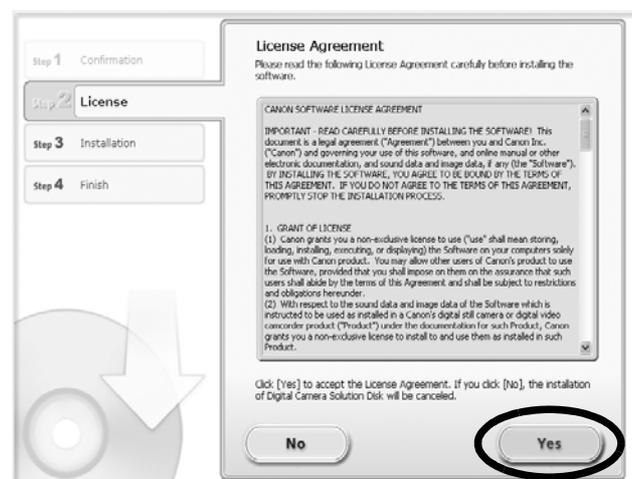
The USB driver (the software for connecting) is required when the camera is connected to the computer with an interface cable. Ensure that you select the USB driver [Canon Camera TWAIN Driver].

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

- 7** Click [Yes] if you agree to all of the terms of the software license agreement.

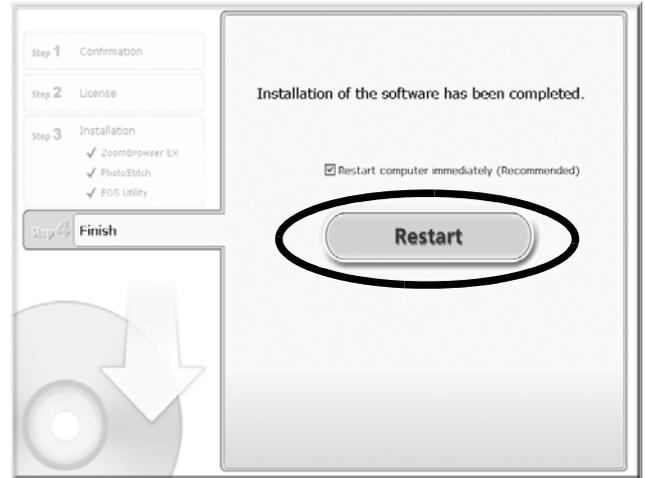
The installation will start.

Follow the on-screen instructions to proceed with the installation.



8 When the installation is over, select [Restart computer immediately (Recommended)] and click [Restart].

At this stage, do NOT remove the Solution Disk from the CD-ROM drive yet.

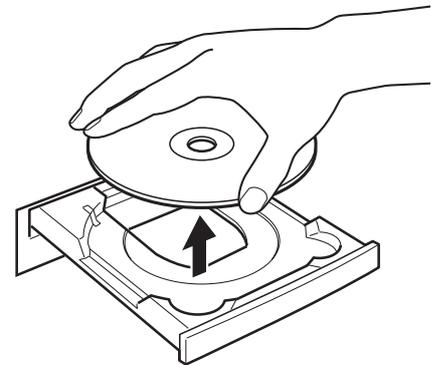


If there is no need to restart the computer, the [Finish] screen will display. Click [Finish], remove the Solution Disk from the CD-ROM drive and proceed to Step 10.

9 Remove the disk from the CD-ROM drive when your normal desktop screen appears after restarting.

This concludes the software installation.

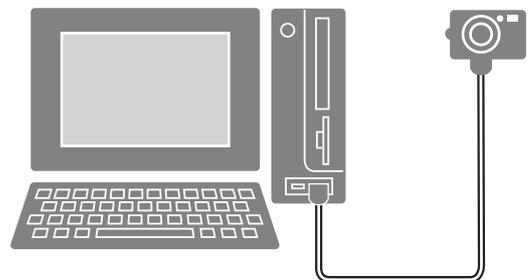
Continue by connecting the camera to the computer so that the USB driver can be utilized.



 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. 72) to delete the installed programs.

10 Attach the camera to the computer with the interface cable and set the camera to the correct mode for connecting.



 Procedures for attaching the camera to the computer and placing the camera in the correct mode for connecting vary between camera models. See the *Camera User Guide*.

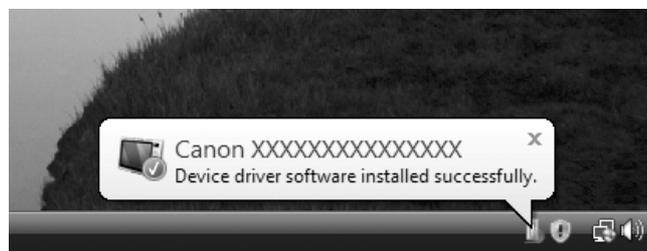
If the Digital Signature Not Found window appears, click [Yes].



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

Windows Vista

The dialog on the right will appear after a few moments.



Windows XP

The dialog on the right will appear after a few moments.



Windows 2000

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. 16) for the subsequent procedures.



- If you experience problems installing the USB Driver, first uninstall it (p. 77) and then reinstall it. (Windows 2000)
- See *Uninstalling the USB Driver* (p. 73) to delete the USB driver installed with these procedures. (Windows 2000)
- See *If You Were Using ZoomBrowser EX Version 2 or 3* (p. 81) 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. 16).

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 downloading the images to your computer. The downloading procedure is slightly different according to whether you are using a camera to computer connection (see below) or a memory card reader (p. 19).



You may not be able to download images when the camera is connected to a computer if there are a large number of images (approximately 1000) on the memory card. Use a memory card reader to download in that case.

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 the *Camera User Guide*.

The Camera Control Window will appear.

Camera Control Window



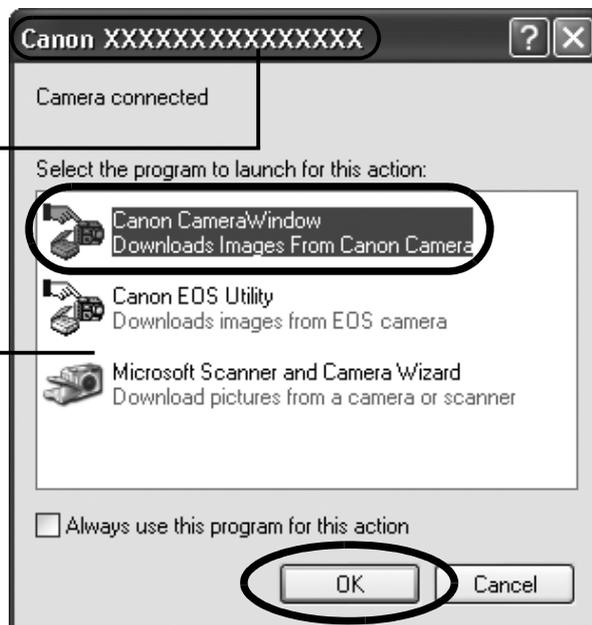
First Time Camera is Connected to a Computer

Set the following settings the first time you connect the camera to the computer. These procedures are not required from the second connection onward.

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.

Different programs may display according to your computer setup.



If this Events dialog does not appear, click the [Start] menu and select [All Programs] or [Programs], followed by [Canon Utilities], [CameraWindow], [PowerShot - IXY - IXUS - DV 6] and [CameraWindow].

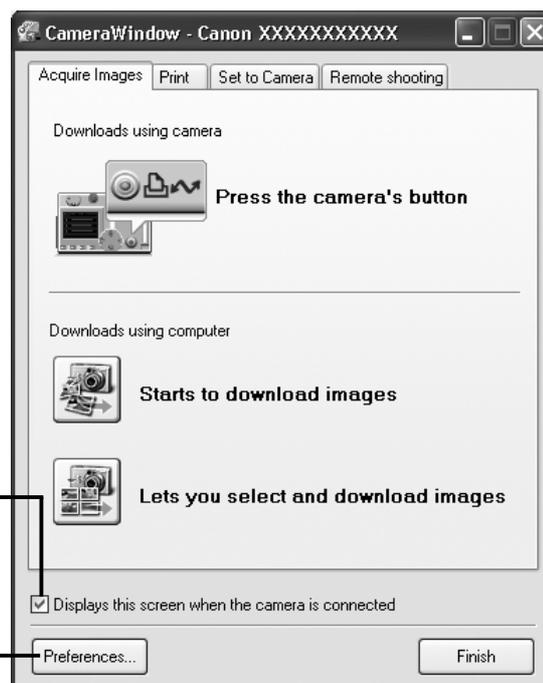
2 Download the images.

Download the images using the camera or the computer.

By default, the downloaded images are saved into the [Pictures] or [My Pictures] folder.

Placing a check mark here causes this window to automatically open when the camera and computer are connected.

You can adjust the settings, such as the type of image downloaded and the destination folder, by clicking [Preferences].

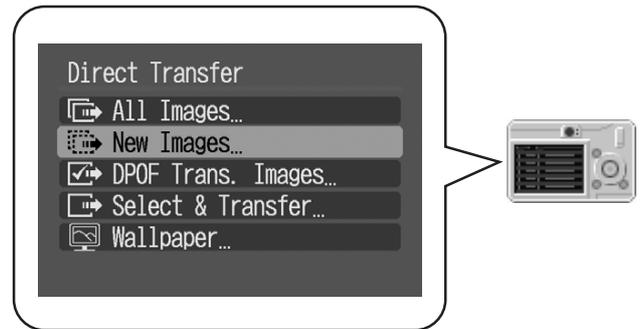


Using the Camera to Download Images (Direct Transfer Function)



- If the conditions are right for the Direct Transfer function, the Direct Transfer settings menu will appear in the LCD monitor. In addition, the  (Print/Share) button will light if your camera is equipped with one.
- See the *Camera User Guide* for instructions regarding Direct Transfer settings and procedures.

Set the Direct Transfer settings on the camera and press the  (Print/Share) button or the FUNC./SET button.



Using the Computer to Download Images

Click [Starts to download images].



- By default, all the images that have yet to be downloaded will download to the [Pictures] or [My Pictures] folder.
- To download images that have had their transfer settings set with the camera, click [Preferences] and select [Images whose transfer settings were specified with the camera] as the image type to be downloaded.
- Click [Lets you select and download images] to show the camera images in a list, check the images before downloading and download only selected images.

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

At the same time, they will also appear grouped by date in the [Last Acquired Images] at the top of the Folder Area.

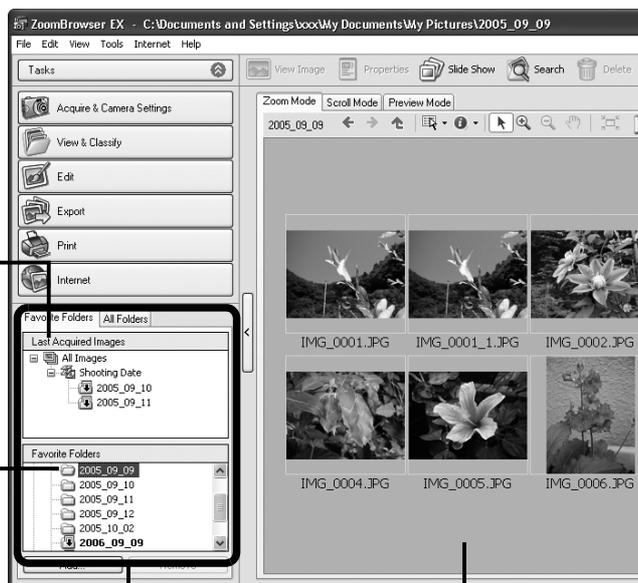
[Last Acquired Images]
The last downloaded images will display according to their shooting dates.

Destination for the downloaded images
The downloaded symbol displays on downloaded folders.

Folder area

Thumbnail

According to the default settings, the thumbnails (tiny versions) of the downloaded images display in the Main Window when the downloading is complete.



Next, print out the images (p. 21).

Memory Card Reader Connection

- 1** Insert the memory card into the reader.
Use a separately sold card adapter if required.
See the manual for the memory card reader for its connection and handling instructions.
- 2** Select [View/Download Images using Canon CameraWindow] when the dialog to the right appears and click [OK].
The Camera Control Window will display.



If the dialog above fails to appear, click the [Start] menu and select [All Programs] or [Programs], followed by [Canon Utilities], [CameraWindow], [CameraWindowMC] and [CameraWindow], and proceed to Step 3.

3 Click [Starts to download images].



You can adjust the settings, such as the type of image downloaded and the destination folder, by clicking [Preferences].



- By default, all the images that have yet to be downloaded will download to the [Pictures] or [My Pictures] folder.
- To download images that have had their transfer settings set with the camera, click [Preferences] and select [Images whose transfer settings were specified with the camera] as the image type to be downloaded.
- Click [Lets you select and download images] to show the memory card images in a list, check the images before downloading and download only selected images.
- See *Memory Card Folder Structure* (p. 75) for information about memory card folder structures and file names.

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

At the same time, they will also appear grouped by date in the [Last Acquired Images] at the top of the Folder Area.

Next, print out the images (p. 21).

Printing Images

There are two ways in which images may be printed: One Photo per Page Print and Index Print. This section explains the One Photo per Page Print method.

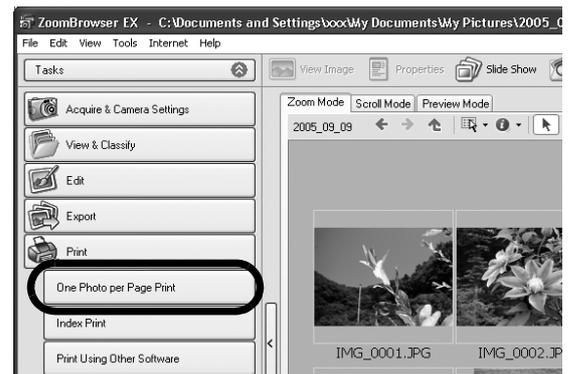
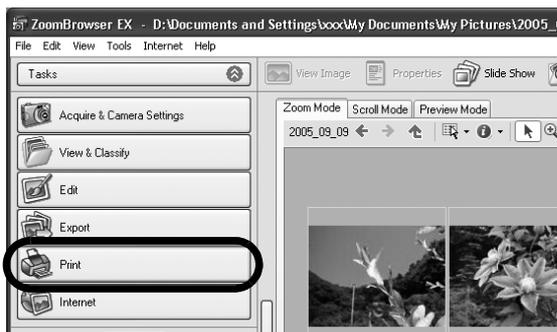


- Movies cannot be printed, but with Windows Vista and Windows XP you can print stills after they have been extracted from movies and saved to files.
- To use the Index Print option, click [Print] in the Main Window, followed by [Index Print].

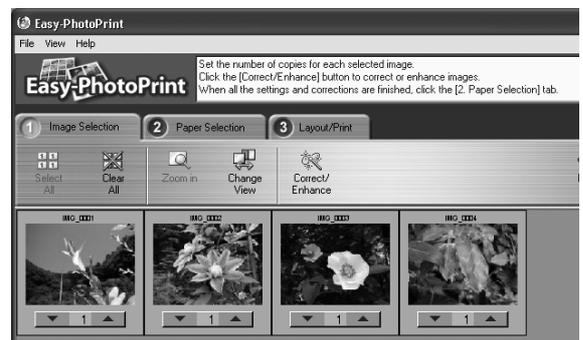
One Photo per Page Print

This option prints one image per page in a standard "photo" format. If you select multiple images, it will print them on the corresponding number of pages.

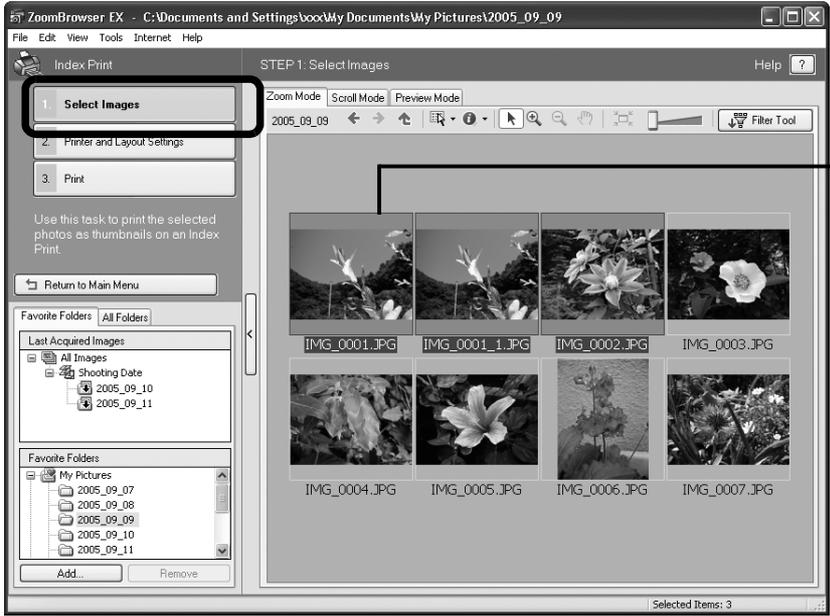
- 1 Click [Print] in ZoomBrowser EX's Main Window, followed by [One Photo Per Page Print].



- If you have installed the Easy-PhotoPrint program that accompanied a Canon-brand printer, you will proceed to the Easy-PhotoPrint printing window shown at the right when you select [One Photo per Page Print] according to the default settings. If a window similar to it opens, read the Help menu for Easy-PhotoPrint for instructions to proceed.
- To proceed to the ZoomBrowser EX printing window as shown in Step 2 when you select [One Photo per Page Print], click the [Tools] menu and select [Preferences], followed by the [Printing] tab. Select [Use the Print Function in ZoomBrowser EX].

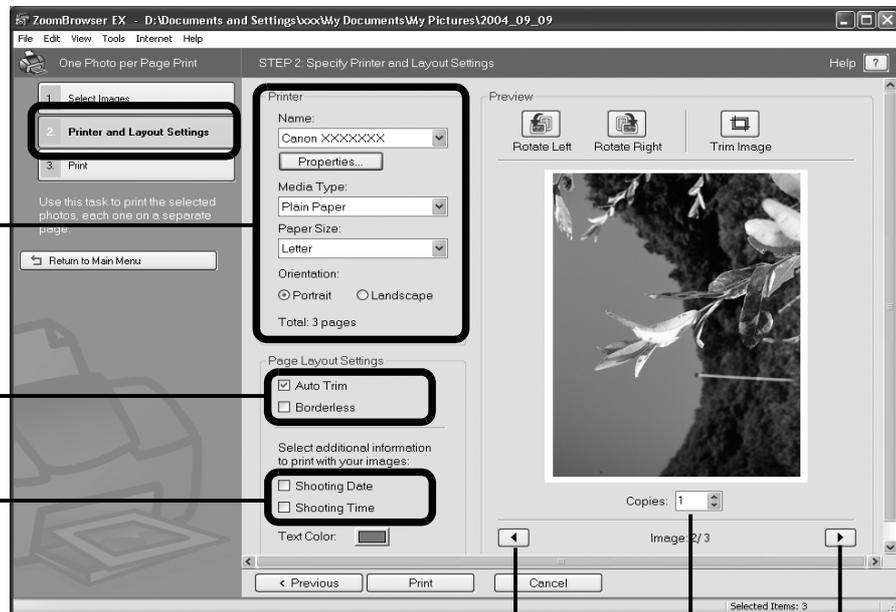


- After confirming that [1. Select Images] is selected, select images. You can select multiple images by holding the [Ctrl] down while clicking on successive images.



The background of selected images changes to blue.

- Click [2. Printer and Layout Settings] and adjust the categories as you feel necessary.



Selects the printer and the paper size etc.

Sets printing to "borderless," etc.

Place a check mark here to print shooting date/time information with images.

Sets the number of print copies

This button switches between images if multiple images were selected.

- Click [3. Print]. Printing will start.

This chapter explained the ZoomBrowser EX basics.
Once you have mastered them, 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).

Using the Software on the Windows Platform – Advanced Techniques

This chapter explains various ZoomBrowser EX features.

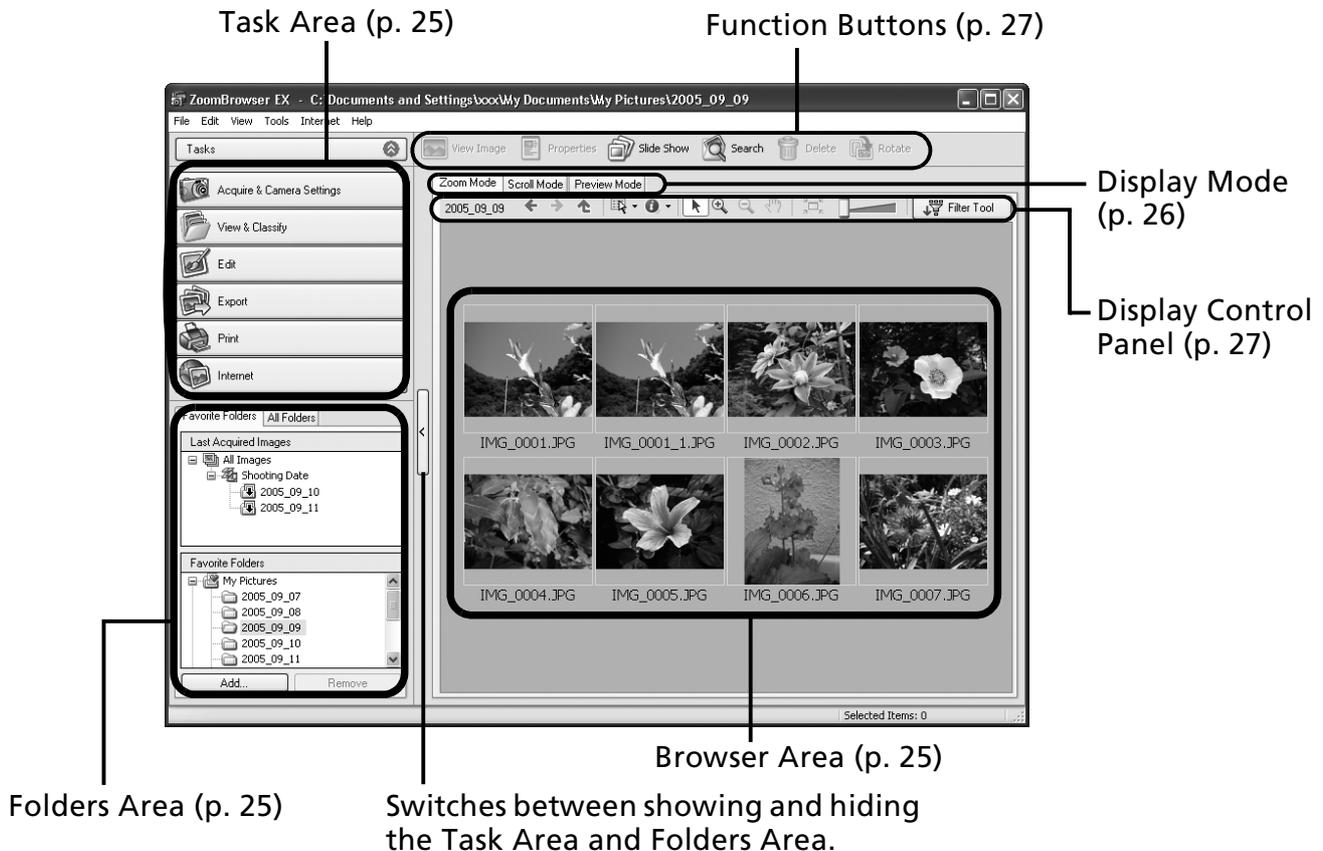
Proceed to this chapter once you have mastered the basic ZoomBrowser EX procedures in the *Using the Software on the Windows Platform – The Basics* chapter.

The ZoomBrowser EX Windows

This section describes the principal ZoomBrowser EX windows: the Main Window, Viewer Window and Properties Window.

Main Window

This window is for displaying and organizing images downloaded to the computer.



Task Area

- ZoomBrowser EX's tasks are arranged here like an index.
- Click a Task button to carry out the desired task. These features are described in *ZoomBrowser EX Features* (p. 30)



Folders Area

- Use this area to select folders. The images in the selected folder display in the Browser Area. If you select a network drive in advance with Windows Explorer, you can display network folders, but you cannot add, change or delete those folders in the Browser Area.
- If you selected Favorite Folders, only the folders registered in advance as Favorite Folders will display. You are recommended to register a folder that you use frequently as one of the Favorite Folders. If you selected All Folders, all the folders will display.

Methods for Registering a Favorite Folder

- If [Favorite Folders] is displayed: click [Add] and select a folder.
 - If [All Folders] is displayed: select a folder and click [Add to Favorites].
 - To delete a folder in the Favorite Folders area, select a folder and click the [Delete] button.
- Downloaded images also appear in the [Last Acquired Images] area at the top of the Folder Area. You can check them in groups sorted by shooting date.

Using Cameras That Support My Category

- In addition to classifying by Shooting Date, My Category also displays where the [Last Acquired Images] message displays after the last image is downloaded.
- Also, in addition to the Star Rating it is possible to sort by My Category using the [Filter Tool] function.

Browser Area

- The images in the folder selected in the Folders Area will display here. The display style will vary according to your Display Mode selection.
- You can sort the image order in the Browser Area by file name, shooting date or other characteristics by selecting [View] and [Sort by].
- The following icons will display around images according to their attributes.



Images shot with the camera's Stitch Assist mode



RAW images



Movies



Images with sound memo attachments



Protected images



Images shot with the camera's AEB function



Rotated Images (In display only)

Display Mode

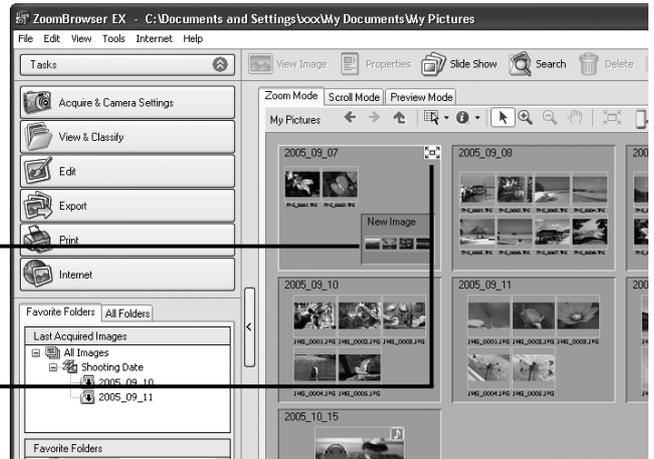
- Selects the display style for the Browser Area.

Zoom Mode

Displays all the images in a folder as thumbnail images. This mode is convenient for searching for images since many can be displayed at once.

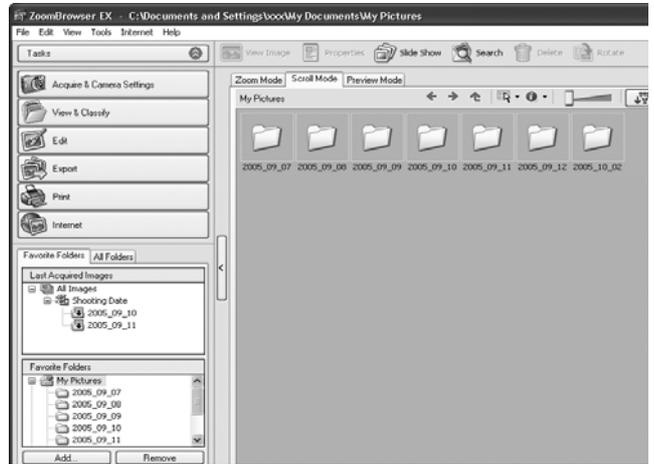
If additional folders are nested within a folder, their images are displayed as thumbnails as well.

If you move the mouse cursor over a folder,  will display on the upper right. Clicking here displays that folder zoomed in.



Scroll Mode

The images within the selected folder and subfolders will display. If you set the display folder depth (level) to [1] or greater, the thumbnails of the images in the folder will also display. You can change the folder depth in the [Tools] menu under the [Preferences] option.



Preview Mode

This mode displays the image at a larger size as well as the image information.



Positioning the mouse pointer over a thumbnail causes the image to appear at a higher magnification in a Mouse Over Window. You can turn off this function by clicking the  [Show Information], and removing the check mark from the [Show Mouse Over Windows] option.

Display Control Panel

- This panel adjusts the display settings for the Browser Area.

Selection Menu

Click this to select/deselect all images in the Browser Area.

Fit to Window

Changes the thumbnail size to fit them into the window.

Display Size

Changes the size of the thumbnail in the Browser Area.



Show/Hide Image Information Menu

Select here to show/hide such image information as the file name or shooting date or rating beneath the thumbnail.

Select Button

Use this to select images in Zoom mode.

Filter Tool Menu

Displays only images that correspond to the specific conditions.

Function Buttons

- These buttons are available for executing various functions.

View Image Button

Displays the selected image or movie in the Viewer Window.

Slide Show Button

Starts a slide show of the selected images.

Rotate Button

Rotates the selected image.



Properties Button

Displays information about the selected image in the Properties Window.

Search Button

Searches for images using such criteria as the Star Rating, modification date, shooting date, comments or keywords.

Delete Button

Deletes selected images or folders.

Viewer Window

Double-click an image in the Browser Area to display it in the Viewer Window.

Edit Menu

You can edit, eliminating red eyes, adjusting colors and brightness, cropping and inputting titles. You can also use it to start up other programs for editing.

Print Button

Prints the displayed image.

Shooting Information Display Button
Displays image shooting information.

Synchronize Button
Synchronizes the display settings when multiple images are displayed.

Image Selector Button

Switches between images.

Sets the image display size to the size in the Viewer Window.

Displays images in the Viewer Window at their actual size.

Zoom
Changes the image zoom setting.

Star Rating
Sets the Star Rating for an image.

Full Screen Button
Displays the image in the full screen mode. Click the image or press any key on the keyboard to restore the normal display mode.

Number of Displays Button
Displays multiple images at once. This is handy for comparing images.



- If a RAW image is displayed, the [Display Original Image] button displays beneath it. Clicking this button displays the converted image in the Viewer Window.
- With Windows Vista and Windows XP, when a movie file is displayed, the [Capture Still Frame] button will display beside the Star Ratings. Clicking this button extracts still images from movies.

Properties Window

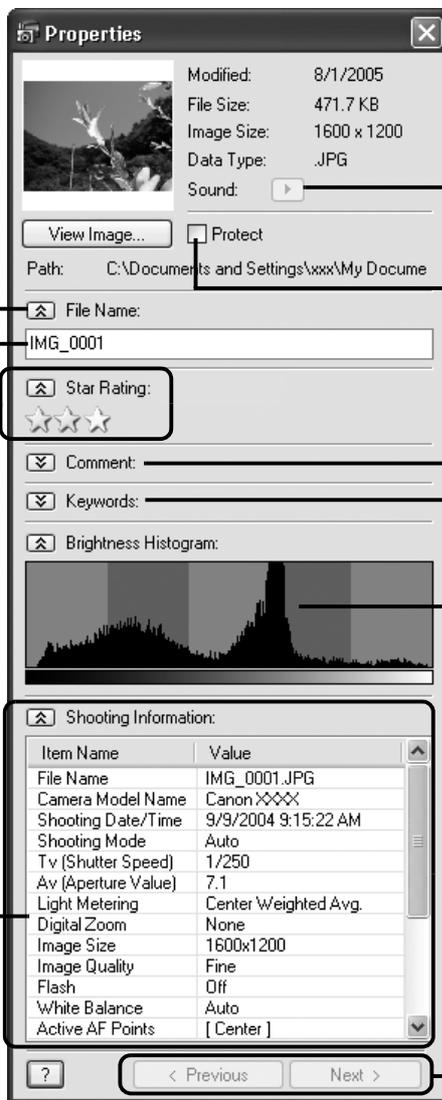
The Properties Window displays when you select an image in the Browser Area and click the Properties button. The Properties Window does not display in the Preview Mode.

Shows or hides categories.

File Name
The file name can be changed.

Star Rating
Sets the rating for an image.

Shooting Information
Displays detailed information, such as the shutter speed and exposure compensation setting. The camera model will determine what information is displayed.



Plays a sound memo attached to an image.

Protect
Prevents an image from being overwritten or deleted.

Comment
You can type a comment here.

Keywords
Sets the keywords used in searches.

Brightness Histogram
A graph of the highlights and shadows distribution in an image.

Image Selector Buttons
Switches between images.

ZoomBrowser EX Features

This section briefly introduces the Task Area functions.



Some functions may not be available with certain camera models. Check your *Camera User Guide* to see if your model supports them.

Acquire & Camera Settings

Opens the Camera Control Window, which lets you perform the following operations.



Acquire & Camera Settings

Connect to Camera

Connects to your camera and lets you perform the following operations.

- **Acquire Images**

Downloads images and sound files from the camera (p. 16).

- **Print Images**

Selects and prints the images in a camera. You can print numerous ways, using DPOF settings, print all images, the Index Print option, One Photo per Page Print option, or by selecting images before printing.

- **Set to Camera**

Sets camera settings, such as the My Camera settings (p. 39). It also uploads images from the computer to the camera.

- **Remote Shooting**

Allows you to operate the camera shutter from the computer (p. 35).

Connect to EOS Camera

This can only be used with EOS series cameras. For details on this function, see the user guide for your camera. (Windows Vista and Windows XP only)

Acquire Images from Memory Card

Download images and sound files from a memory card (p. 19).
You can also select images on the memory card and print them.

View & Classify

View as a Slide Show

Starts a slide show of the images selected in the Browser Area.



View & Classify

Rename Multiple Files

Changes the file names of the selected images in a single pass.

Classify into Folder

Classifies images and saves them into a specified folder.

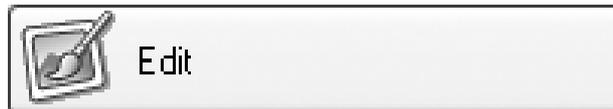
Search

Performs image searches using criteria such as the Star Rating, modification date, shooting date, comments or keywords. Star Ratings, comments and keywords can be set in the image information column in the Preview Mode or in the Properties Window.

Edit

Edit Image

Allows you to perform image editing, such as cropping, image correction and red-eye correction. You can also use it to start other image editing programs.



Stitch Photos

Merges multiple images and creates a single large panoramic image (p. 38).

Edit Movie

Edits movies or still images strung together. You can add text as titles, or background music, and apply various effects (p. 34).

Process RAW Images

Converts RAW images into standard images. You can adjust the image brightness, contrast and color balance among other attributes during conversion.

Export

Export Still Images

Allows you to change the image size or type, and export it as a new image.



Export Movies

Allows you to change the movie size or type, and export it as a new movie.

Extract frames from a movie

Extracts still images from movies over a specified interval and saves them as image files. (Windows Vista and Windows XP only)

Export Shooting Properties

Allows you to select the necessary data from the shooting information and export it as a text file.

Export as a Screen Saver

Exports the image as a screen saver file.

Export as a Wallpaper

Exports the image as a wallpaper file.

Backup to CD

Copies images to a CD-R/RW disk for backup. (Windows Vista and Windows XP only)



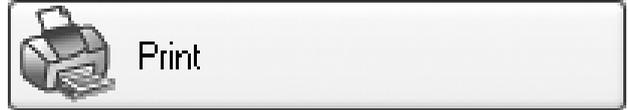
The Backup to CD function can only be used on computers satisfying the following requirements.

- A CD-R/RW drive is included as standard equipment
- The write to CD-R/RW Driver function operates correctly on the Windows Vista and Windows XP platforms

Print

One Photo per Page Print

Prints one image per page (p. 21).
You can print "photo" prints easily.



Index Print

Lines up small versions of the images in rows and prints.

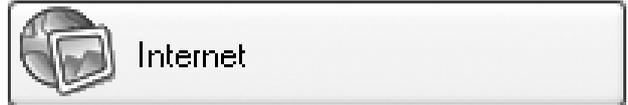
Print Using Other Software

Select the software to use and then print.

Internet

Email Images

Converts the selected images to the appropriate size for transmission by e-mail. You can also use it to automatically start an e-mail program after conversion.



- To return to the previous screen after selecting a task, click [Return to Main Menu] at the bottom of the task screen.
- Various Help functions are available in ZoomBrowser EX. Click the [Help] menu, [?] button or [Help] button to display topics about operational procedures or the functions available.

Replaying Movies



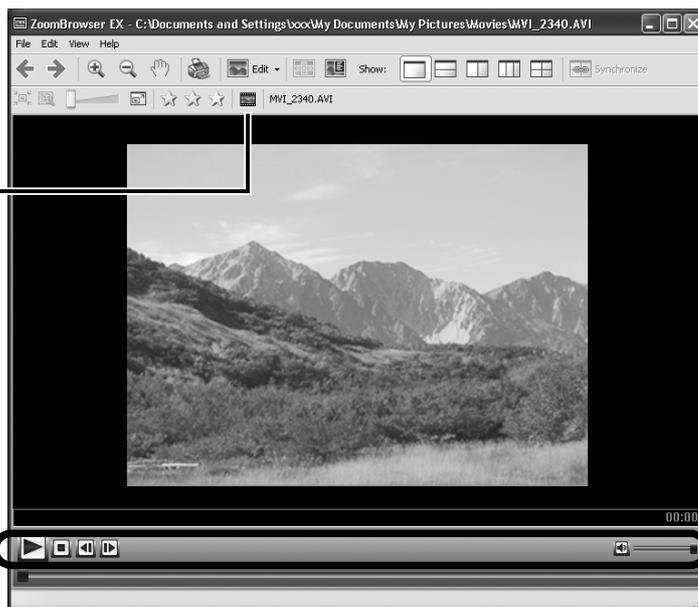
QuickTime is required to play and edit movies on the Windows 2000 platform.

- 1 Double-click a thumbnail image with a movie icon in ZoomBrowser EX's Browser Area.

The Viewer Window will open and play the movie.

You can save the displayed scene as a still image by clicking here.

You can control the movie's playback and sound volume.



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.



- QuickTime is required to play and edit movies on the Windows 2000 platform.
- Movies are saved as Motion JPEG AVI movies.

- 1 Click [Edit] in ZoomBrowser EX's Main Window, followed by [Edit Movie].
- 2 Click [1. Add Images] and select the image (movie or still) you wish to edit. 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.

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

Operating the Shutter Remotely (Remote Shooting)

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.



This function may not be available with certain camera models. Check your Camera User Guide to see if your model supports it.

Preparing for Remote Shooting

- 1 Attach the supplied interface cable to the computer's USB port and the camera's DIGITAL terminal and place the camera in the correct mode for connecting.



- Methods for connecting the camera to the computer and placing it in the correct mode for connecting vary between camera models. Please refer to the *Camera User Guide*.
- Perform the settings described in *First Time Camera is Connected to a Computer* (p. 17) the first time you connect the camera to the computer.

The Camera Control Window will display.

- 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 the [Remote shooting] tab.
- 4 Click [Starts Remote Shooting].



- 5 Select a destination for the captured images and click [OK].

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.

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 hold the camera vertically to photograph a subject, 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 when holding the camera vertically.

- 3 Click the [Release] button.

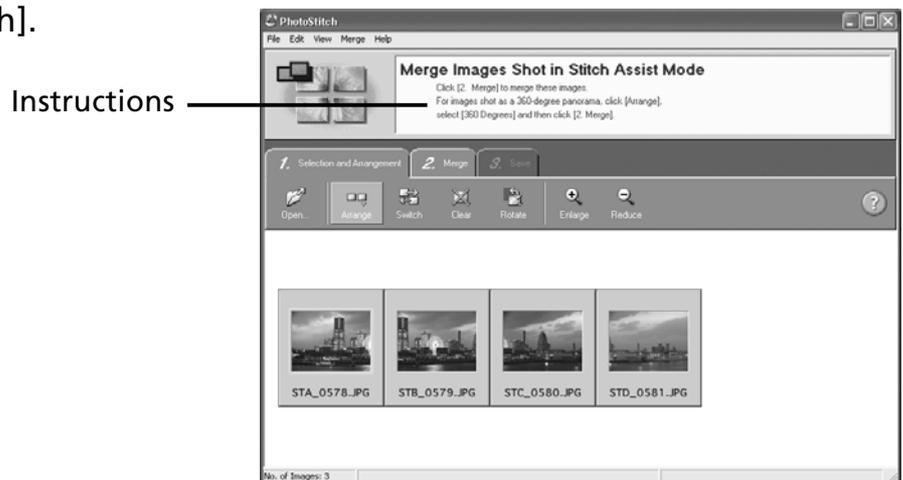


- You can release the shutter by pressing the camera's shutter button or the keyboard's space key.
- Other than the shutter button, the camera's buttons and switches, including the zoom, cannot be operated while the camera is being controlled with the Remote Shooting function.
- You may notice that the interval between the shutter release and activation is slightly longer for remote shooting than when the camera is used independently.

Merging Panoramic Images - PhotoStitch

You can create a wide panoramic image by merging images of a scene shot separately. PhotoStitch automatically detects the overlapping areas of adjacent images and corrects for the size and orientation. You can also manually specify the overlapping areas.

- 1** Click [Edit] in the ZoomBrowser EX's Main Window and click [Stitch Photos].
- 2** Click [1. Select Images] and select several images in the Browser Area.
- 3** Click [2. Open PhotoStitch].



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

Images Shot in Stitch Assist Mode

It is easy to merge images if they are shot with the camera's Stitch Assist mode because PhotoStitch can automatically detect the image order and orientation. The series of images are saved together in a single folder when they are downloaded from the camera.

Symbol displayed by images shot in Stitch Assist mode.



- Some camera models may not support Stitch Assist mode.
- See the *Camera User Guide* for information about shooting in Stitch Assist mode.
- Images shot in Stitch Assist mode with a wide converter, teleconverter or close-up lens cannot be merged accurately.

Enjoy Customizing Your Camera with the My Camera Settings



This function may not be available with certain camera models. Check your *Camera User Guide* to see if your model supports it.

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.



To register the My Camera settings with the camera, ensure that you install the software that came with the camera.

Displaying the My Camera Window

- 1 Attach the supplied interface cable to the computer's USB port and the camera's DIGITAL terminal and place the camera in the correct mode for connecting.



- Methods for connecting the camera to the computer and placing it in the correct mode for connecting vary between camera models. Please refer to the *Camera User Guide*.
- Perform the settings described in *First Time Camera is Connected to a Computer* (p. 17) the first time you connect the camera to the computer.

The Camera Control Window will display.

- 2 Click the [Set to Camera] tab.
- 3 Click [Set My Camera].
The My Camera window will display.



The My Camera Window Features

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

Tabs

Click here to switch between adjusting the settings individually or in themed sets.

Computer

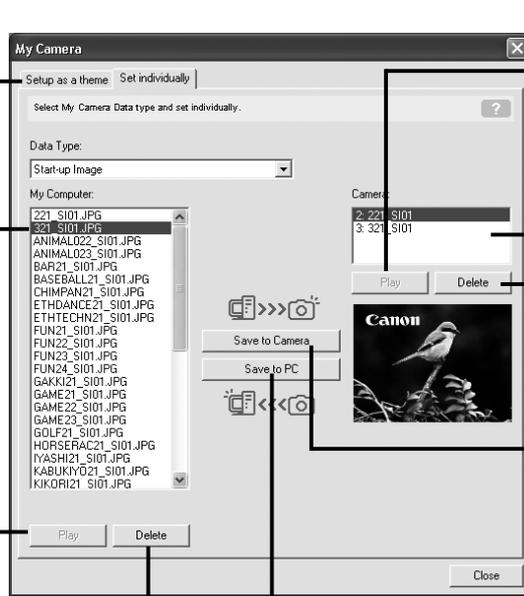
Displays the list of settings files saved onto the computer.

Play Button

Plays the audio from the selected settings file.

Delete Button

Deletes a settings file from the computer.
The pre-recorded My Camera settings in ZoomBrowser EX cannot be deleted (Windows Vista only).



Play Button

Plays the audio from the settings file in the camera.

Camera

Displays the settings in the camera.

Delete Button

Deletes a settings file from the camera.

Save to Camera Button

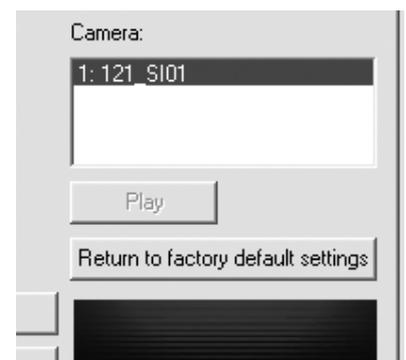
Saves a computer settings file onto the camera.

Save to PC Button

Saves a camera settings file onto the computer.



Depending on the camera, the [Return to factory default settings] button will display. Clicking this button will return the My Camera setting to the factory default setting.



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. The start-up image and sound files in the "Animal" theme, for example, all begin with "Animal~".



Do not detach the interface cable, turn the camera power off or do anything else that could 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 files 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.

- Adding Image and Sound Files After Creating Them

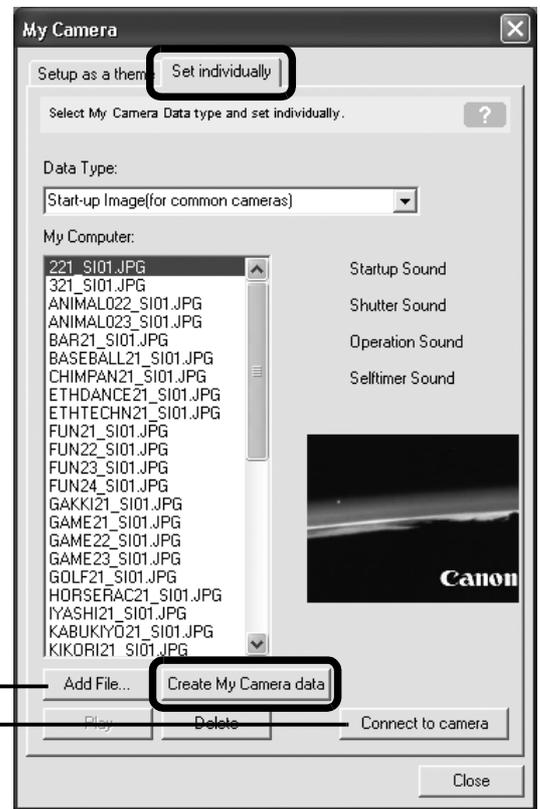
Adding Original Start-up Images and Sounds After Creating Them

You can effortlessly create start-up image and sound files using the "My Camera Maker" program.

- 1 Click the [Edit] menu in the ZoomBrowser EX Main Window and select [Manage My Camera].
The My Camera window will display.
- 2 Click the [Set individually] tab in the My Camera window, followed by the [Create My Camera Data] button.
My Camera Maker will start.

Add File Button
Adds images and sound files for use as settings files. Added files display in the list.

Connect to camera Button
Connects to the camera.



- 3 Follow the instructions at the top part of the My Camera Maker window and create image or sound files.

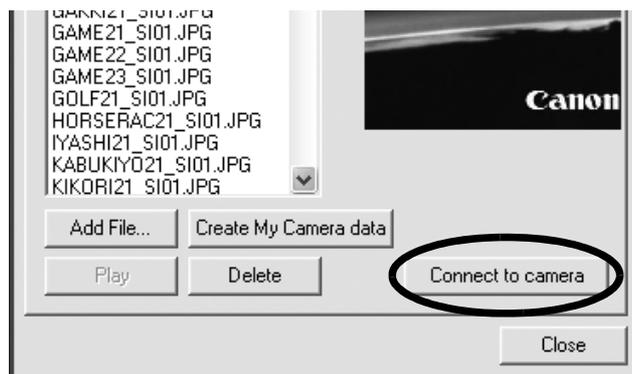
Instructions



4 Once you have saved the file, click  and close the My Camera Maker window. You have now succeeded in adding the file as a settings file to the computer.

5 To connect to the camera, click [Connect to Camera].

You can add the settings files you just added to the computer to the camera using the same procedures as in *Saving the My Camera Settings to the Camera* (p. 41).



- Use settings like those below when creating an image file for the start-up image using an image editing program other than "My Camera Maker."

Compression Method : JPEG (Baseline JPEG)
 Data Sampling : 4:2:0 or 4:2:2
 Pixels (w x h) : 320 x 240 pixels

- Use settings like those below when creating a sound file using a sound recording program other than "My Camera Maker."

Compression Method : WAV (Monaural)
 Quantifying Bits : 8 bit
 Sampling Frequency : 11.025 kHz or 8.000 kHz

Use the following lengths as guidelines for the length of sound file that can be saved to the camera.

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

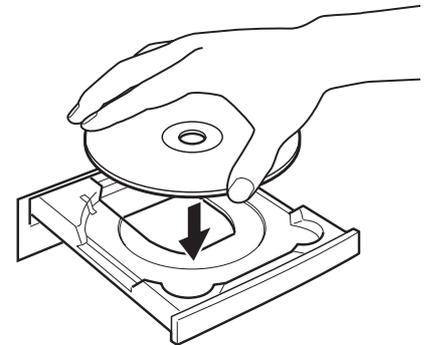
Start by installing the software from the Canon Digital Camera Solution Disk.

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 [Canon Digital Camera Installer] icon  in the CD-ROM window.



- 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.

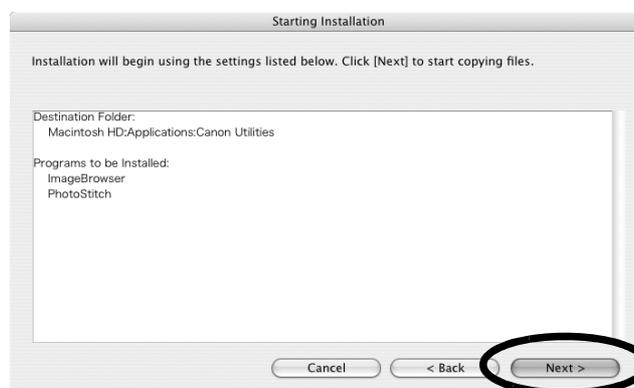


- 6** Click [Agree] if you agree to all of the terms of the software license agreement.



- 7** Review the installation settings and click [Next].

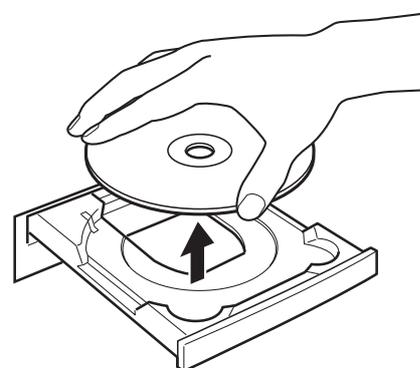
Follow the on-screen instructions to proceed with the installation.



- 8** When the installation is over, click [OK].



- 9** Click [Exit] in the installer panel and remove the disk from the CD-ROM drive. This concludes the software installation.



See *Uninstalling the Software* (p. 72) to delete the software installed with these procedures.

Continue by downloading images to the computer (p. 46).

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.

Downloading Images to the Computer

Begin by downloading the images to your computer. The downloading procedure is slightly different according to whether you are using a camera to computer connection (see below) or a memory card reader (p. 48).



You may not be able to download images when the camera is connected to a computer if there are a large number of images (approximately 1000) on the memory card. Use a memory card reader to download in that case.

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 the *Camera User Guide*.

The Camera Control Window will appear.

If it does not open, click the [CameraWindow] icon in the Dock (the bar at the bottom of the desktop). To set this window so it does not automatically open when you connect the camera to the computer, remove the check mark from the [Start when a camera is connected] in the [File] menu in the Camera Control window.

2 Download images.

Download the images using the camera or the computer. By default, the downloaded images are saved into the [Pictures] folder.

Camera Control Window

You can adjust the settings, such as the type of image downloaded and the destination folder, by clicking [Preferences].

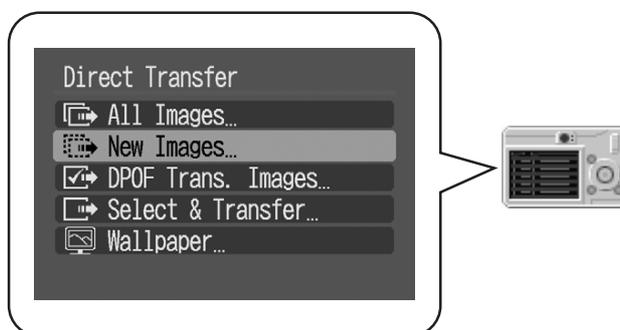


Using the Camera to Download Images (Direct Transfer Function)



- If the conditions are right for the Direct Transfer function, the Direct Transfer settings menu will appear in the LCD monitor. In addition, the  (Print/Share) button will light if your camera is equipped with one.
- See the *Camera User Guide* for instructions regarding Direct Transfer settings and procedures.

Set the Direct Transfer settings on the camera and press the  (Print/Share) button or the FUNC./SET button.



Using the Computer to Download Images

Click [Starts to download images].





- By default, all the images that have yet to be downloaded will download.
- To download images that have had their transfer settings set with the camera, click [Preferences] and select [Images whose transfer settings were specified with the camera] as the image type to be downloaded.
- Click [Lets you select and download images] to show the camera images in a list, check the images before downloading and download only selected images.

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

At the same time, they will also appear grouped by date in the [Last Acquired Images] at the top of the Explorer Panel.

[Last Acquired Images]
Clicking the shooting date displays the images last downloaded.

Explorer Panel

Destination for the downloaded images
The downloaded symbol displays on downloaded folders.



Thumbnail

According to the default settings, the thumbnails (tiny versions) of the downloaded images display in the Browser Window when the downloading is complete.

Next, print out the images (p. 50).

Memory Card Reader Connection

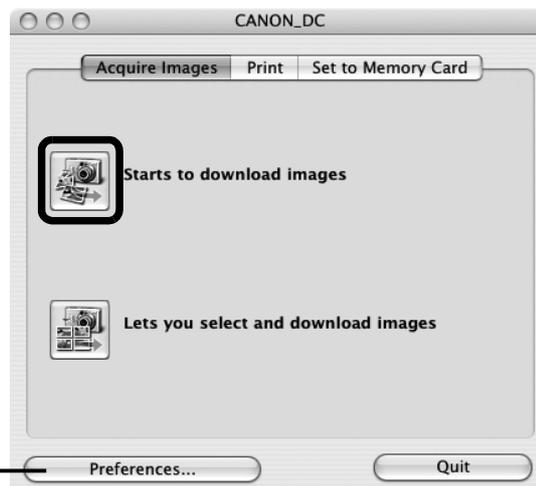
- 1 Insert the memory card into the reader.
Use a separately sold card adapter if required.
See the manual for the memory card reader for details on how to connect and use the reader.

The Camera Control Window will appear.

If it does not open, click the [CameraWindow] icon in the Dock (the bar at the bottom of the desktop). To set this window so it does not automatically open when you connect the camera to the computer, remove the check mark from the [Start when a camera is connected] in the [File] menu in the Camera Control window.

2 Click [Starts to download images].

You can adjust the settings, such as the type of image downloaded and the destination folder, by clicking [Preferences].



- By the default settings, all images are downloaded to the [Pictures] folder.
- To download images that have had their transfer settings set with the camera, click [Preferences] and select [Images whose transfer settings were specified with the camera] as the image type to be downloaded.
- Click [Lets you select and download images] to show the memory card images in a list, check the images before downloading and download only selected images.
- See *Memory Card Folder Structure* (p. 75) for information about memory card folder structures and file names.

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

At the same time, they will also appear grouped by date in the [Last Acquired Images] at the top of the Explorer Panel.

Next, print out the images (p. 50).

Printing Images

There are three ways in which images may be printed: One Photo per page Print, Index Print and Layout Print. This section explains the One Photo per page Print method.



Movies cannot be printed, but you can print stills after they have been extracted from movies and saved to files.

One Photo per page Print

This option prints one image per page in a standard "photo" format. If you select multiple images, it will print them on the corresponding number of pages.

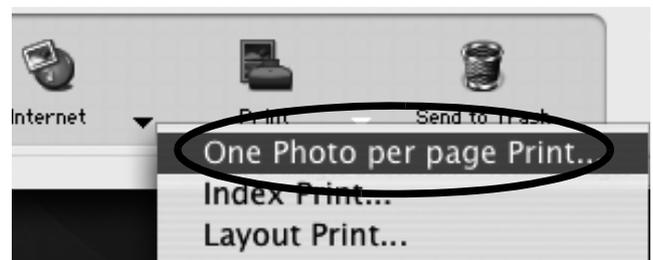
1 Select the images to print.

Clicking on an image selects it and displays a blue frame around it. To select multiple images, hold down the [shift] or [⌘] (command) key while clicking on images.



A blue frame displays around selected images.

2 Click [Print] and select [One Photo per page Print].



Selecting [Index Print] allows you to print the thumbnails and shooting information in a chart.
Selecting [Layout Print] allows you to layout and print multiple images on a single sheet of paper.

3 Set the categories as you feel necessary.

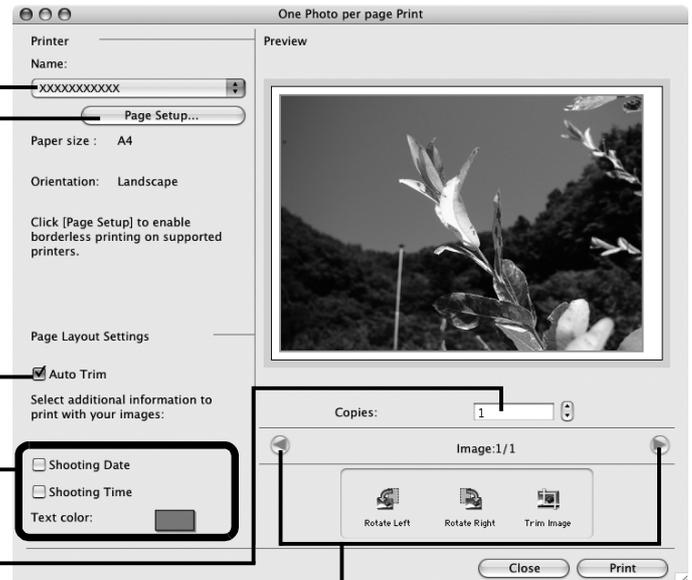
Selects a printer.

Selects options such as the paper size and orientation when you click [Page Setup].

Configures the auto trimming function.

Place a check mark here to print the shooting dates/times with the images.

Sets the number of copies printed.



Click this button to switch between images if you selected multiple images.

4 Click [Print].

The Print window will now open.

5 After setting the number of copies, and other settings, click [Print].

6 After the printing finishes, click to close the window.

This chapter explained the ImageBrowser basics.

Once you have mastered them, try the advanced techniques.

Using the Software on the Macintosh Platform – Advanced Techniques (p. 52).



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 various ImageBrowser features.

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

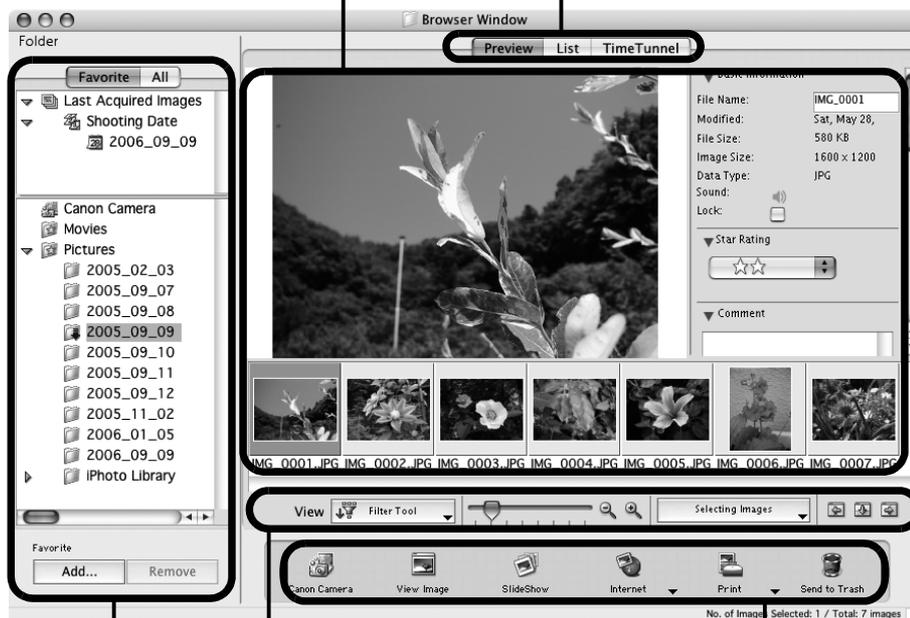
The ImageBrowser Windows

This section describes the principal ImageBrowser windows: the Browser Window, Viewer Window and File Information Window.

Browser Window

This window is for displaying and organizing images downloaded to the computer.

Browser Area (p. 53) Display Mode (p. 54)



Explorer Panel (p. 53)

Display Control Panel (p. 55)

Control Panel (p. 55)

Explorer Panel

- Use this area to select folders. The images in the selected folder display in the Browser Area.
- If you selected Favorite Folders, only the folders registered in advance as Favorite Folders will display. You are recommended to register a folder that you use frequently as one of the Favorite Folders. If you selected All Folders, all the folders will display.

Methods for Registering a Favorite Folder

- If [Favorite Folders] is displayed: click [Add] and select a folder.
- If [All Folders] is displayed: select a folder and click [Add to Favorites].

- Downloaded images also appear in the [Last Acquired Images] area at the top of the Explorer Panel. You can check them in groups sorted by shooting date.

Using Cameras That Support My Category

- In addition to classifying by Shooting Date, My Category also displays at the top of the area where the [Last Acquired Images] message displays after the last image is downloaded.
- Also, in addition to the Star Rating it is possible to sort by My Category using the [Filter Tool] function.

Browser Area

- The images in the folder selected in the Explorer Panel will display here. The display style will vary according to your Display Mode selection.
- The following types of icon will display around images according to their attributes.



Images shot with the camera's Stitch Assist mode



RAW images



Movies



Images with sound memo attachments



Protected images



Images shot with the camera's AEB function



Rotated Images (In display only)

Display Mode

- Selects the display style for the Browser Area.

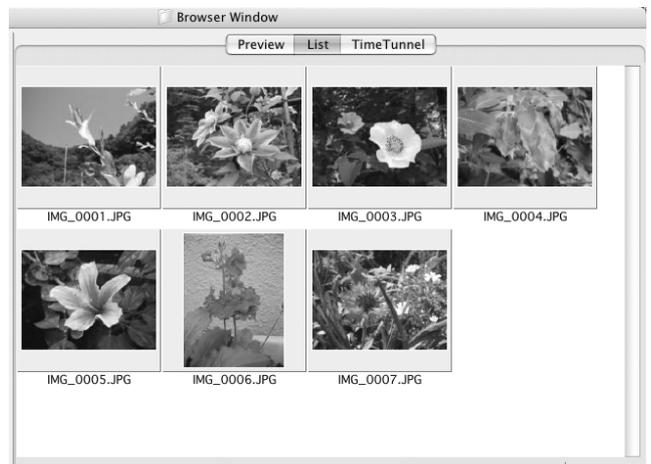
Preview

This mode displays the image at a larger size as well as the image information.



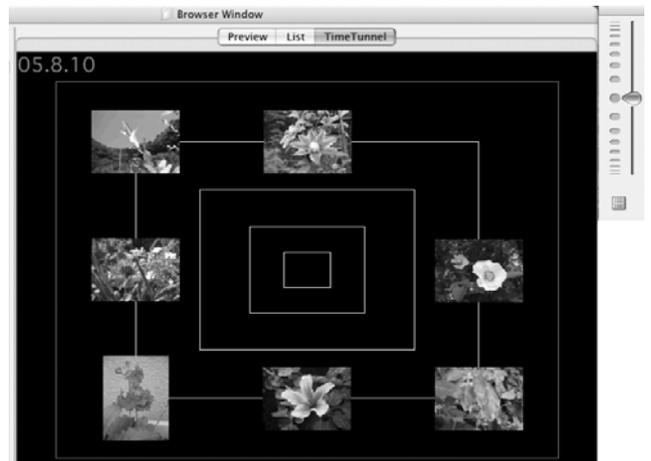
List

Displays the images in the folder selected in the Explorer Panel section in rows and columns.



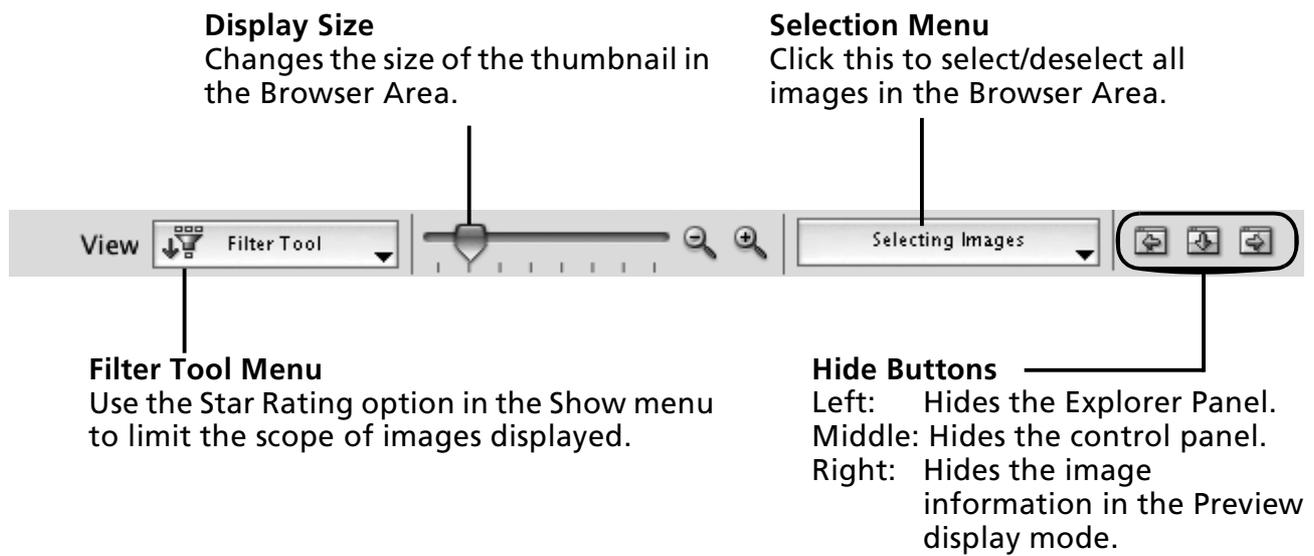
TimeTunnel

Displays images in chronological order in a simulated time tunnel. You can move along a timeline from the past to the present using the slider that appears at the window's right.



Display Control Panel

- This panel adjusts the display settings for the Browser Area.



Control Panel

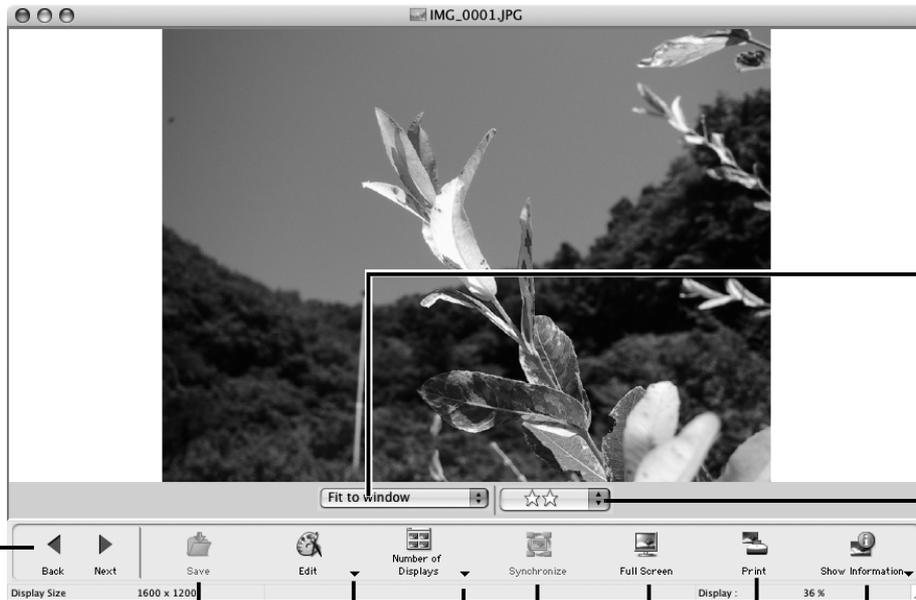
- The control panel contains buttons for executing various functions.



The functions displayed here are explained in the *Control Panel Features* section (p. 58).

Viewer Window

Double-click an image in the Browser Area to display it in the Viewer Window.



Zoom
Changes the image zoom setting.

Star Ratings Menu
Sets the Star Rating for an image.

Image Selector Button
Switches between images.

Save Button
Saves the edited image.

Edit Menu
You can edit, eliminating red eyes, adjusting colors and brightness, cropping and inputting titles. You can also use it to start up other programs for editing.

Number of Displays Menu
Displays multiple images at once. This is handy for comparing images.

Show Information Menu
Displays shooting information.

Print Button
Prints the displayed image.

Full Screen Button
Displays the image in the full screen mode. (You can also double-click an image to display it in full screen mode). Click the image or press any key on the keyboard to restore the normal display mode.

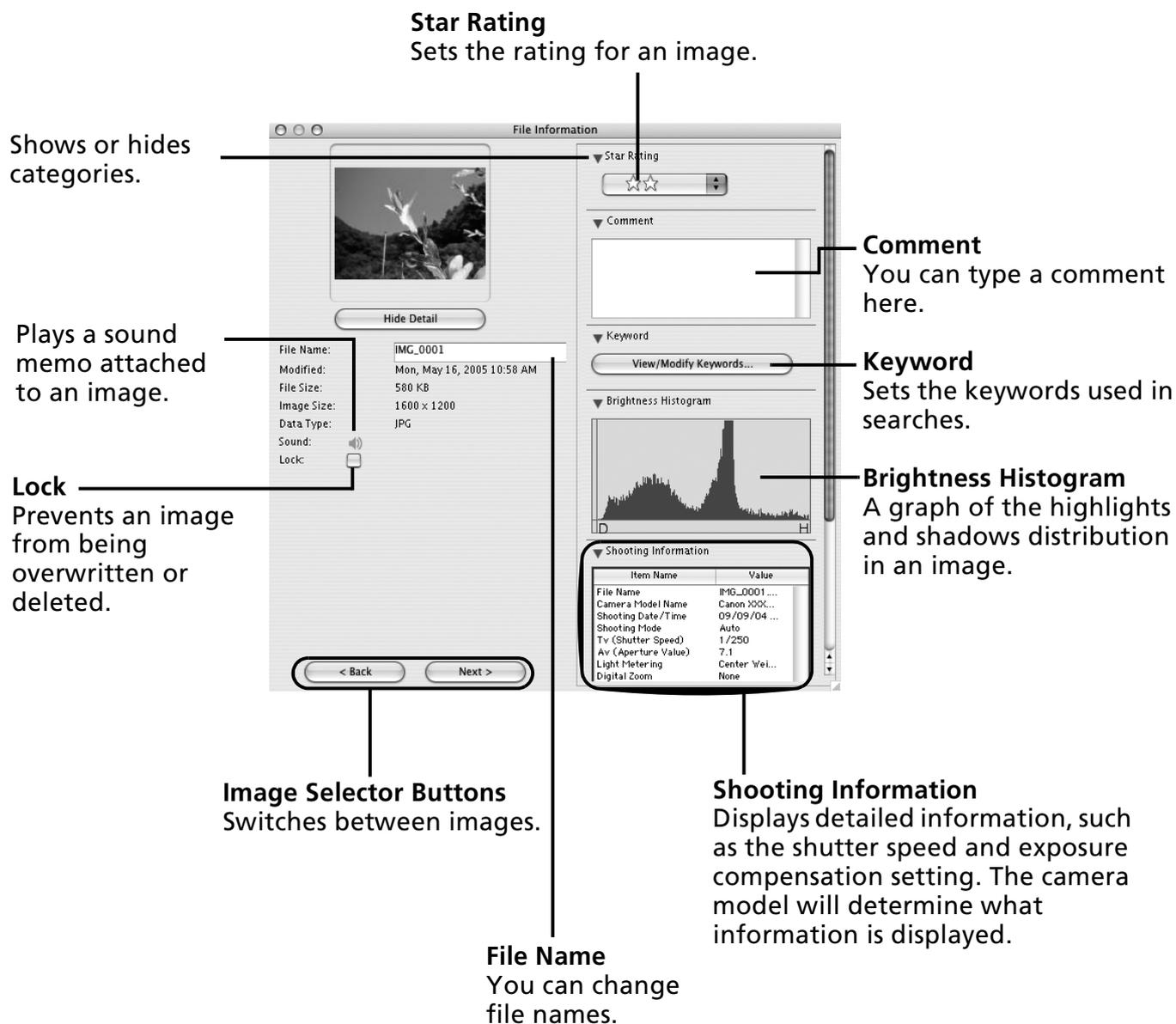
Synchronize Button
Synchronizes the display settings when multiple images are displayed.



- If a RAW image is displayed, the [Show Original Image] button displays beneath it. Clicking this button displays the converted image in the Viewer Window.
- If a movie file is displayed, the [Save as Still Image] button will display beneath movie images. Click this button to extract a still image from the movie.

File Information Window

The File Information Window displays when you select an image in the Browser Area, click the [File] menu and select [Get Info]. The File Information Window does not display in the Preview display mode.



ImageBrowser Features

This section provides a brief introduction to ImageBrowser features.



Some functions may not be available with certain camera models. Check your *Camera User Guide* to see if your model supports them.

Control Panel Features



Canon Camera

Opens the Camera Control Window, which lets you perform the following operations.

Acquire Images

Downloads images and sound file from the camera/memory card (p. 46, 48).

Print

Selects and prints the images in a camera or memory card. You can print numerous ways: print all images, print a contact sheet (index) of all images, print using DPOF settings, or by selecting images before printing.

Set to Camera

Sets camera settings, such as the My Camera settings (p. 67). It also uploads images from the computer to the camera.

Remote Shooting

Allows you to operate the camera shutter from the computer (p. 63).

View Image

Displays the selected image or movie in the Viewer Window.

SlideShow

Starts a slide show of the selected images. Click the [View] menu and select [Slide Show Options] to set the slide show settings.

Internet

Create Images for Email

Converts the selected images to the appropriate size for transmission by e-mail. You can also use it to automatically start an e-mail program after conversion.

Print

One Photo per page Print

Prints one image per page (p. 50).
You can print "photo" prints easily.

Index Print

Lines up small versions of the images in rows and prints.

Layout Print

Allows you to freely arrange multiple images on a single page and print. You can also insert captions and titles.

Send to Trash

Sends the selected images or folders to the Trash.

Functions Selected from Menus

Search Images: [File] menu, [Search]

Searches for images based on such criteria as Star Ratings, dates, keywords or captions.

Export Images: [File] menu, [Export Images]

- Edit and Save: allows you to change the file type or size and export the file.
- Export Shooting Properties: allows you to export the shooting properties as a text file.
- Export as a Screensaver: Exports the image as a screen saver file.
- Export an Image as Wallpaper: Exports the image as a wallpaper file.

Organize Images: [File] menu, [Organize Image]

- Sort Images: sorts images according to criteria such as the shooting date or Star Rating and saves them into a specified folder.
- Rename: changes the files names of multiple images in a single pass.

Convert RAW Images: [File] menu, [RAW image processing]

Converts RAW images. You can adjust the image brightness, contrast and color balance among other attributes during conversion.

Merge Panoramas: [Edit] menu, [PhotoStitch]

Merges multiple images and creates a single large panoramic image (p. 66).

Edit Movies: [Edit] menu, [Movie Edit]

Edits movies or still images strung together. You can add titles or background music and apply various effects (p. 62).

Extracting Stills from Movies: [Edit] menu, [Extract frames from a movie]

Extracts still images from movies over a specified interval and saves them as image files.

Display Settings: [View] menu, [View Settings]

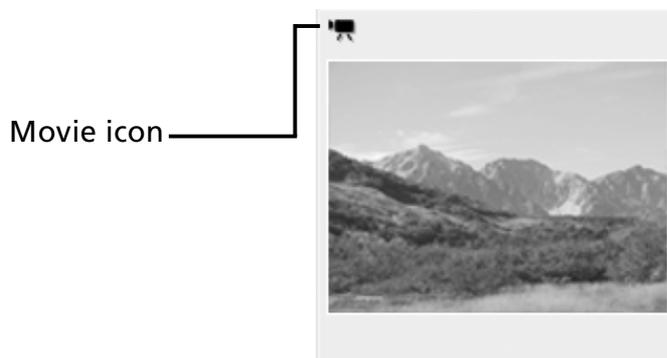
Hides or shows image information beneath the thumbnail, such as the file name or the shooting date and time.

Sort Images: [View] menu, [Sort]

Arranges image order in the Browser Area according to criteria such as the filename, file modification date, file size or shooting date.

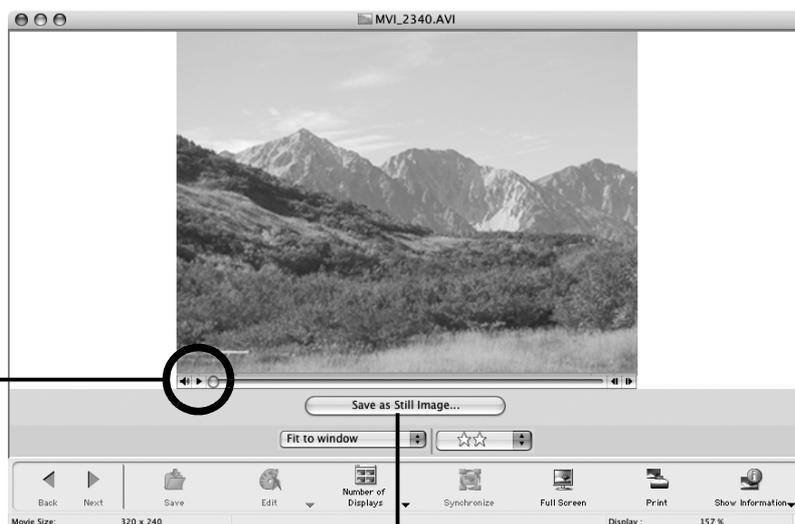
Replaying Movies

- 1 Double-click an image with a movie icon in ImageBrowser's Browser Area. The movie will appear in the Viewer Window.



- 2 Click the  button.

You can control the movie's playback and sound volume.



You can save the displayed scene as a still image by clicking here.

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.

- 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.

Instructions

Arrange images.
 1. To arrange images, select the image and click on the [Move Left] or [Move Right] button.
 2. Click the [Play] button to play the arranged effects and check them.
 3. Click the [Effect] tab to go to Effect Step.

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.

Operating the Shutter Remotely (Remote Shooting)

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.



This function may not be available with certain camera models. Check your *Camera User Guide* to see if your model supports it.

Preparing for Remote Shooting

- 1 Attach the supplied interface cable to the computer's USB port and the camera's DIGITAL terminal and place the camera in the correct mode for connecting.



- Methods for connecting the camera to the computer and placing it in the correct mode for connecting vary between camera models. Please refer to the *Camera User Guide*.
- If the Camera Control Window does not automatically appear, click the [CameraWindow] icon in the Dock (the bar at the bottom of the desktop).

The Camera Control Window will display.

- 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 the [Remote shooting] tab.



- 4 Click [Starts Remote Shooting].
- 5 Select a destination for the captured images and click [Choose].

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.

Release Button
Releases the shutter.

Slide this to zoom the camera in or out.

Start/Stop Viewfinder Button
Starts or stops the viewfinder display.

Refresh Button
Resets the exposure, focus and white balance.

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.

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

Set the camera shooting settings here.



The settings available in the RemoteCapture Task window vary between camera models.

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 hold the camera vertically to photograph a subject, 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 when holding the cameras vertically.

- 3 Click the [Release] button.

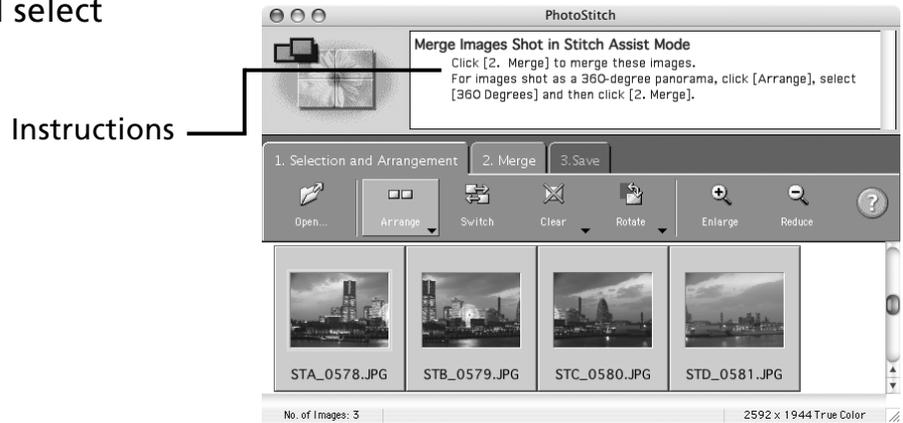


- You can also release the shutter by pressing the camera's shutter button or the keyboard's space key.
- Other than the shutter button, the camera's buttons and switches, including the zoom, cannot be operated while the camera is being controlled with the Remote Shooting function.
- You may notice that the interval between the shutter release and activation is slightly longer for remote shooting than when the camera is used independently.

Merging Panoramic Images - PhotoStitch

You can create a wide panoramic image by merging images of a scene shot separately. PhotoStitch automatically detects the overlapping areas of adjacent images and corrects for the size and orientation. You can also manually specify the overlapping areas.

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



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

Images Shot in Stitch Assist Mode

It is easy to merge images if they are shot with the camera's Stitch Assist mode because PhotoStitch can automatically detect the image order and orientation. The series of images are saved together in a single folder when they are downloaded from the camera.

Symbol displayed by images shot in Stitch Assist mode.



- Some camera models may not support Stitch Assist mode.
- See the *Camera User Guide* for information about shooting in Stitch Assist mode.
- Images shot in Stitch Assist mode with a wide converter, teleconverter or close-up lens cannot be merged accurately.

Enjoy Customizing Your Camera with the My Camera Settings



This function may not be available with certain camera models. Check your *Camera User Guide* to see if your model supports it.

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.



To register the My Camera settings with the camera, ensure that you install the software that came with the camera.

Displaying the My Camera Window

- 1 Attach the supplied interface cable to the computer's USB port and the camera's DIGITAL terminal and place the camera in 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 the *Camera User Guide*.
- If the Camera Control Window does not automatically appear, click the [CameraWindow] icon in the Dock (the bar at the bottom of the desktop).

The Camera Control Window will display.

- 2 Click the [Set to Camera] tab.



- 3 Click [Set My Camera].
The My Camera window will display.

The My Camera Window

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

Type
Select the settings type.

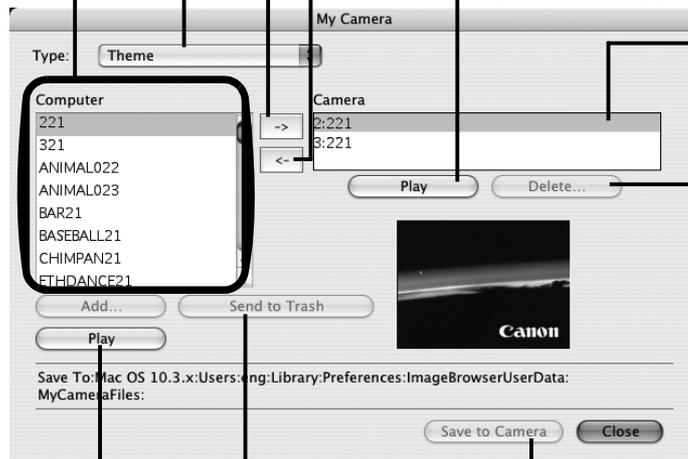
Computer
Displays the list of settings files saved onto the computer.

Save to Camera
Save to Computer

Play Button
Plays the audio from the settings file in the camera.

Camera
Displays the settings in the camera.

Delete Button
Deletes a settings file from the camera.



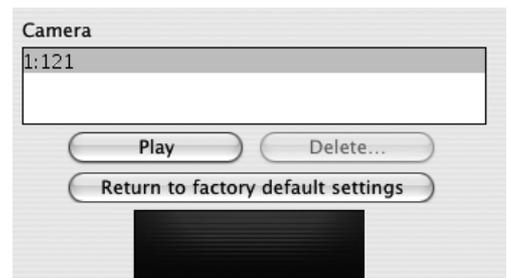
Play Button
Plays the audio from the selected settings file.

Send to Trash Button
Deletes a settings file from the computer.

Save to Camera Button
Click here to save the settings onto the camera.



Depending on the camera, the [Return to factory default settings] button will display. Clicking this button will return the My Camera setting to the factory default setting.



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. The start-up image and sound files in the "Animal" theme, for example, all begin with "Animal~".



Do not detach the interface cable, turn the camera power off or do anything else that could 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.

- Adding Image and Sound Files After Creating Them

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.

- 1 Click the [File] menu in the ImageBrowser Main Window and select [Canon Camera] and [My camera].
The My Camera window will display.
- 2 Select the [Start-up Image] in Type.
- 3 Click [Add].

Add Button
Adds images and sound files for use as settings files. Added files display in the list.



Connect to Camera Button
Connects to the camera.

- 4 Select the file you created and click [Open].
This concludes the process for adding new data.
- 5 To connect to the camera, click [Connect to Camera].
You can add the settings files you just added to the computer to the camera using the same procedures as in *Saving the My Camera Settings to the Camera* (p. 69).

Add an Original Sound File

Change the file to a WAV sound file after you have copied the sound file to the computer. Then proceed with the steps as described in *Create an Original Start-up Image File and then Add It*.



- Use settings like those below when creating an image file for the start-up image with an image editing program.

Compression Method : JPEG (Baseline JPEG)

Data Sampling : 4:2:0 or 4:2:2

Pixels (w x h) : 320 x 240 pixels

- Use settings like those below when creating a sound file with a sound recording program.

Compression Method : WAV (Monaural)

Quantifying Bits : 8 bit

Sampling Frequency : 11.025 kHz or 8.000 kHz

Use the following lengths as guidelines for the length of sound file that can be saved to the camera.

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

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.



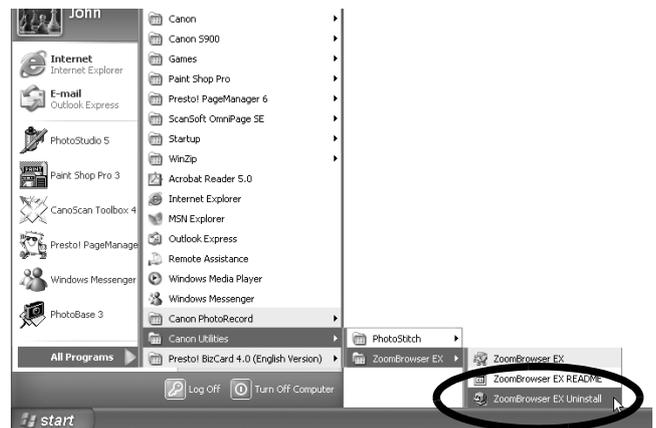
Authorization as a computer Administrator is required to uninstall software.

Uninstalling the Software (Windows)

This explanation uses ZoomBrowser EX to demonstrate how to uninstall a program. You can remove other programs with the same procedures.

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

The uninstall utility will start and remove ZoomBrowser EX.



Uninstalling the USB Driver (Windows)



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

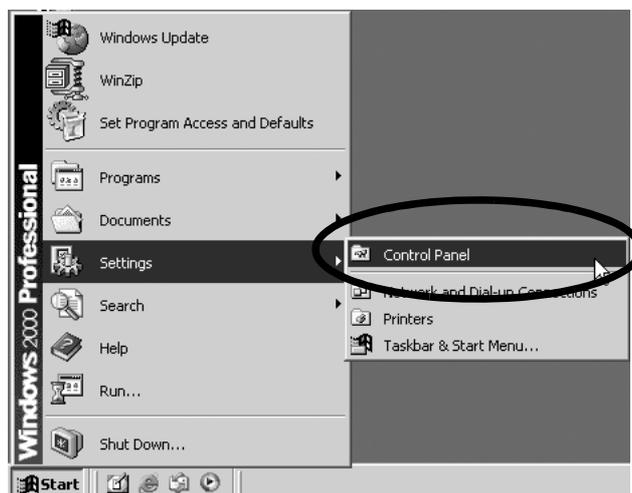
Windows Vista, Windows XP

You do not need to uninstall the USB driver.

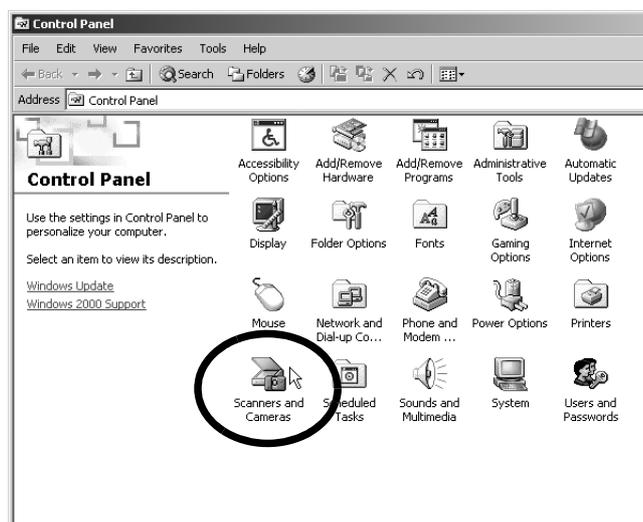
Windows 2000

Uninstall the USB Driver using the following procedures.

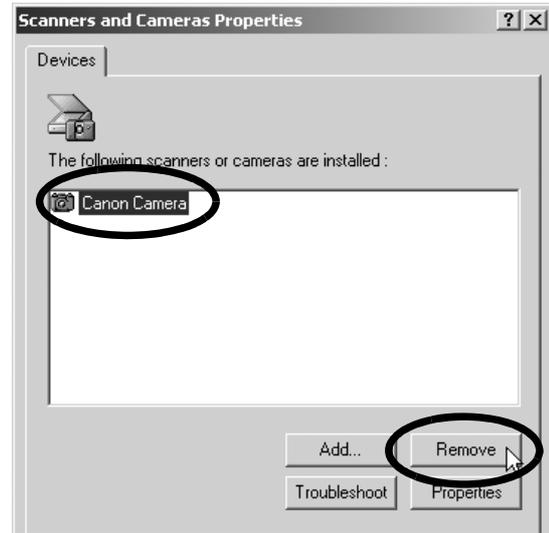
- 1** Attach the supplied interface cable to the computer's USB port and the camera's DIGITAL Terminal. Prepare the camera for communication with the computer. For interface cable connection instructions, see the *Camera User Guide*.
- 2** Click the [Finish] button if the Camera Control Window displays.
- 3** Click the [Start] menu and select [Settings], followed by [Control Panel].



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



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



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. 77) of the *Troubleshooting* section.

- 6** Click the Windows [Start] menu and select [Programs], followed by [Canon Utilities], [Camera TWAIN Driver x.x] and [Uninstall TWAIN Driver]. A version number appears in place of the "x.x".

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)

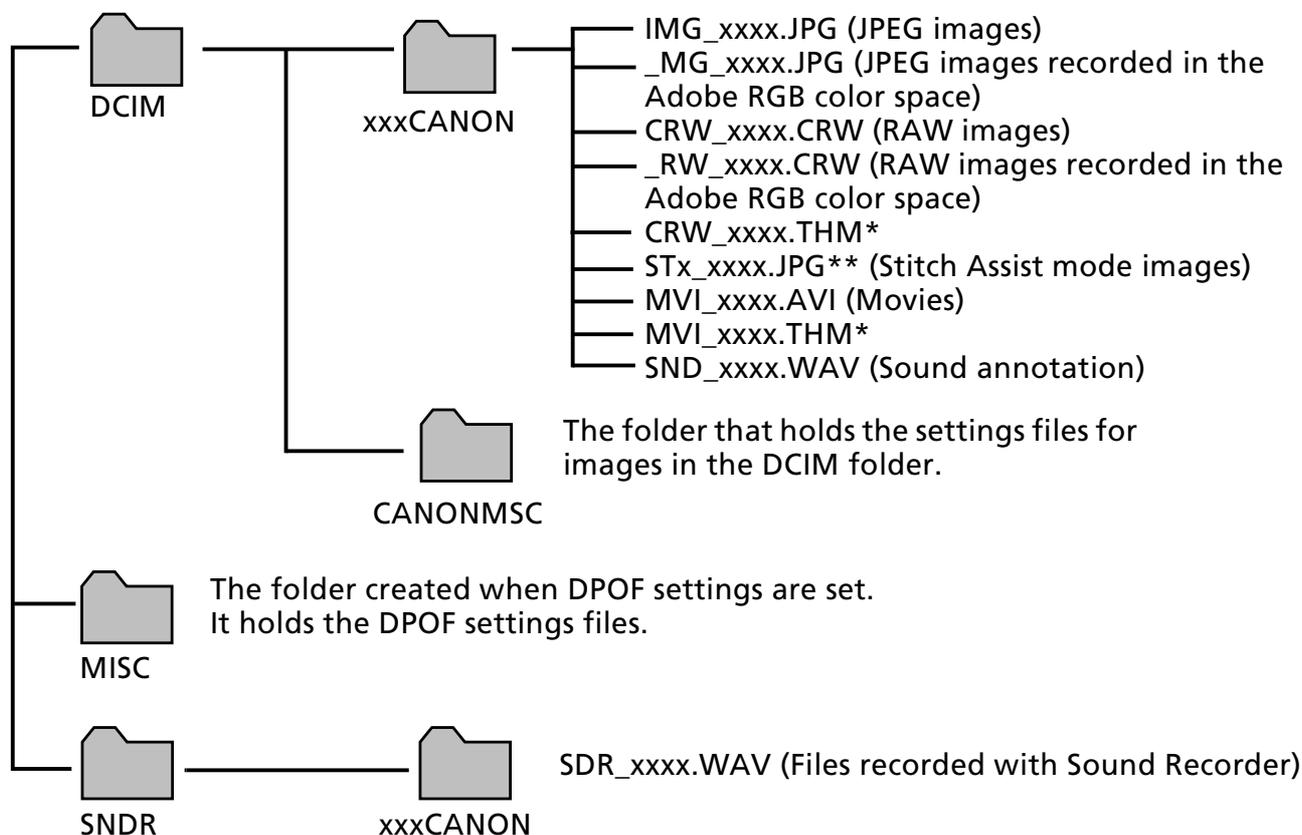
Uninstall the programs by dragging the application's folder (the folder in which it was installed) into the Trash, and then empty the Trash.



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 subfolders of the [DCIM] folder labeled [xxxCANON], where the "xxx" represents a number in the range 100 - 999.



- *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 satisfy the requirements listed in the *System Requirements* section (p. 8)?



Is the camera correctly connected to the computer?

See the *Camera User Guide* 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.



Are the camera and computer in the correct modes to transfer data?

Some models require the camera to be set to the playback mode to transfer data. See the *Camera User Guide* 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.

Problems

Try the suggested solutions to the common problems listed below.



USB driver installation not proceeding well (Windows 2000).

Uninstall the driver (p. 73) before reinstalling it with the procedures in *Installing the Software and USB Driver* (p. 11).



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

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.



Cannot download images or shoot remotely. (For cameras connected to the computer via an interface cable: only cameras supporting Hi-Speed USB 2.0).

The problem may be resolved by lowering the transmission speed for data by following the procedures below.

Solution:

Hold the **MENU** button on the camera down and press the  (Print/Share) button and **FUNC./SET** button simultaneously. In the displayed screen, select [B] and press the **FUNC./SET** button.



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

Click the [Finish] button in the Camera Control Window 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 (Windows)).

Cause 1:

The USB Driver may not be correctly installed (Windows 2000).

Solution:

Install the USB driver with the procedures in *Installing the Software and USB Driver* (p. 11). 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 (p. 74) it first and then reinstall it.

Cause 2:

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:

Delete the device with the following procedures.



You must be authorized as a Computer System Administrator to delete devices.

1. Display the [Device Manager] dialog.

Windows Vista: Click the [Start] menu, [Control Panel], [System and Maintenance], [System], and Task list [Device Manager].

Windows XP: Click the [Start] menu, [Control Panel], [Performance and Maintenance], [System], [Hardware] tab, and the [Device Manager] button.

Windows 2000: Click the [Start] menu, [Settings], [Control Panel], [System], [Hardware] tab, and the [Device Manager] button.

2. Click the  symbol beside the [Other devices], [Portable 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”, “Portable Devices” or “Imaging devices” categories do not appear or your camera model name or [Canon Camera] does not appear. Proceed to Step 5, and temporarily quit the procedures.

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

4. 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.
5. Close [Device Manager] or [System Properties].

With Windows 2000, continue by deleting the setup information file.



Step 6 and above are not required for Windows Vista and Windows XP.

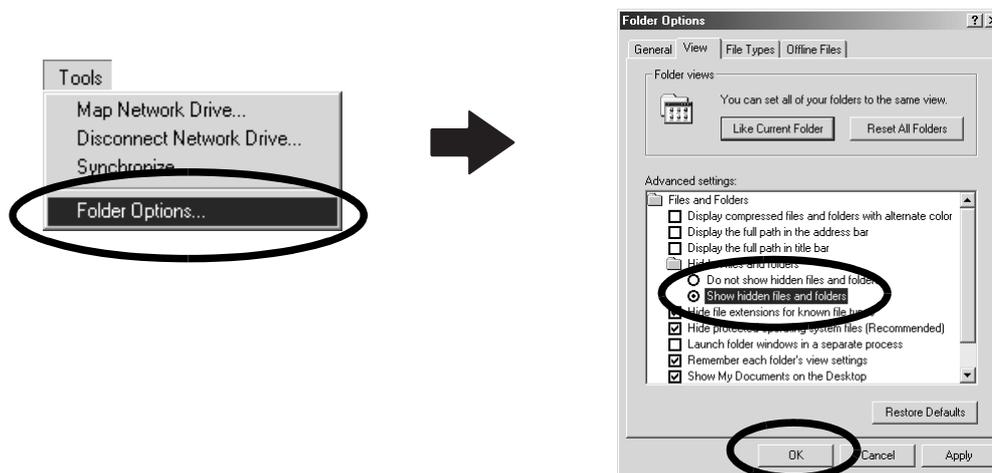
6. Double-click the [My Computer] icon on the desktop, followed by the [C:] drive, [WINNT] folder and [inf] folder.

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.



7. Look for files for Canon digital cameras that start with [CAP*].
The "*" represents a number, such as 0 or 1.
[CAP*] files come in pairs of [CAP*.inf] and [CAP*.pnf] files, "*" represents the same number (For example, [CAP0.inf] and [CAP0.pnf]).

8. Double-click the [CAP*] files to check their contents. Double-clicking a [CAP*.inf] file will open it in the Windows Notepad program. Check all files, and look for [;***Canon Camera Driver Setup File***] in the first line. Note down the names of these files.



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

9. Delete the [CAP*] file set. Delete the [CAP*.inf] and [CAP*.pnf] file for Canon digital cameras that you noted down in Step 8.



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.

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

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].
With Windows 2000, click the [Start] menu and select [Settings], followed by [Control Panel].
2. Display the [Hardware acceleration] setting window.

Windows Vista: Click [Appearance and Personalization], followed by [Adjust screen Resolution], [Advanced Settings] button and [Troubleshoot] tab.

Windows XP: Click the [Appearance and Theme] icon, followed by the [Display] icon, [Settings] tab, [Advanced] button and [Troubleshoot] tab.

Windows 2000: Click the [Display] icon, followed by the [Settings] tab, [Advanced] button and [Troubleshoot] tab.

3. Set the [Hardware acceleration] to a setting below [Full] and click [OK].
4. Restart the computer if prompted.

An error message "Insufficient free memory" displays when using PhotoStitch

Please try one of the following methods.

- Close all other applications other than PhotoStitch.
- Reduce the size or number of images to combine.
- In the [Save] tab, select [Adjust image...], then in "Saved Image Size" reduce the size.

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 5 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 5.
(e.g. C:\Program Files\Canon\ZoomBrowser EX\Program)
2. Double-click [dbconverter.exe] found in this folder to start this utility. With Windows Vista, right-click the [dbconverter.exe] file and select [Run as administrator] to proceed with authorization as a computer Administrator.
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 5.

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 5 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 5.

Downloading Images without Installing the Software

If you are running Windows Vista, Windows XP or Mac OS X (v10.3/v10.4), download images by simply connecting the camera to a computer, without installing the software bundled on the Canon Digital Camera Solution Disk.

However, please note that there are several limitations.



This function cannot be used on the Windows 2000 platform. You must install the bundled software for downloading with this platform.



If you use the bundled software, the following limitations do not apply.

- It may take a few minutes, after connecting to the camera, until you can download images.
- The camera information (firmware version, etc.) may not display correctly. In this case, use the software from the Canon Digital Camera Solution Disk.
- Sound files attached to still images as sound memos and sound files recorded with the Sound Recorder function may not download depending on file size and software used.
- RAW images may not be downloadable with some software programs or operating systems.
- Movies may not download correctly if the file size or software program is incompatible.
- Images shot in the vertical orientation may be downloaded in the horizontal position.
- The protection setting for images protected in the camera may be lost when transferred to the computer.
- There may be other problems with image downloads depending upon the operating system in use, the file size or the software in use.

Index

A

Adobe Reader 2

B

Browser Area
 Macintosh 52, 53
 Windows 24, 25
 Browser Window 52

C

Camera Control Window
 Macintosh 46, 48
 Windows 16, 19
 Canon Digital Camera Solution Disk 9
 Macintosh 44
 Windows 11
 Comment
 Macintosh 57
 Windows 29
 Computer 8
 Connecting to a computer 10
 Macintosh 46
 Windows 14, 16
 Control Panel 52, 55, 58

D

Direct Transfer Function 18, 47
 Display Control Panel
 Macintosh 52, 55
 Windows 24, 27
 Display Mode
 Macintosh 52, 54
 Windows 24, 26
 Downloading Images
 Macintosh 46
 Windows 16

E

Easy-PhotoPrint 21
 E-mail 7
 EOS Utility 9
 Events Dialog 17, 77
 Extract Stills from Movies 7

F

Favorite Folder
 Macintosh 53
 Windows 25
 File Information Window 57
 File Name
 Windows 29
 Filter Tool
 Macintosh 55
 Windows 27
 Folders Area 24, 25
 Function Buttons 24, 27

I

Image Icon Attribute
 Macintosh 53
 Windows 25
 ImageBrowser 6, 7, 9
 Index Print
 Windows 21
 Installer Panel
 Macintosh 44
 Windows 12
 Installing Software
 Macintosh 44
 USB Driver 11
 Windows 11

K

Keyword
 Macintosh 57
 Windows 29

L

Last Acquired Images
 Macintosh 48, 53
 Windows 19, 25
 Layout Print
 Macintosh 50

M

Main Window 24
 Memory Card Folder Structure 75
 Memory Card Reader
 Macintosh 48
 Windows 19
 Merging Panoramic Images 6
 Macintosh 66
 Windows 38
 My Camera Maker 42

My Camera Settings	
Macintosh	67
Windows	39
My Category	
Macintosh	53
Windows	25

O

One Photo per Page Print	
Macintosh	50
Windows	21
Operating the Shutter Remotely	7
Macintosh	63
Windows	35

P

PDF Manuals	2
PhotoStitch	6
Macintosh	66
Windows	38
Print/Share button	18, 47
Printing Images	
Macintosh	50
Windows	21
Programs and Compatible Operating Systems	9
Properties Window	29

Q

QuickTime	
Windows	9, 33, 34

R

Remote Shooting	
Macintosh	63
Windows	35
Replaying Movies	
Macintosh	61
Windows	33

S

Searching Images	
Macintosh	59
Windows	30
Shooting Information	
Macintosh	57
Windows	29
Star Rating	
Macintosh	56, 57
Windows	28, 29

Stitch Assist Mode	
Macintosh	66
Windows	38
System Requirements	8

T

Task Area	24, 25, 30
Troubleshooting	76
Problems	77
Start by Checking This	76

U

Uninstalling Software	
Macintosh	74
Windows	72
Uninstalling the USB Driver	
Windows	73
USB Driver (TWAIN/WIA Driver)	9, 13

V

Viewer Window	
Macintosh	56, 61
Windows	28

Z

ZoomBrowser EX	7, 9
Version 2/3	81

MEMO

