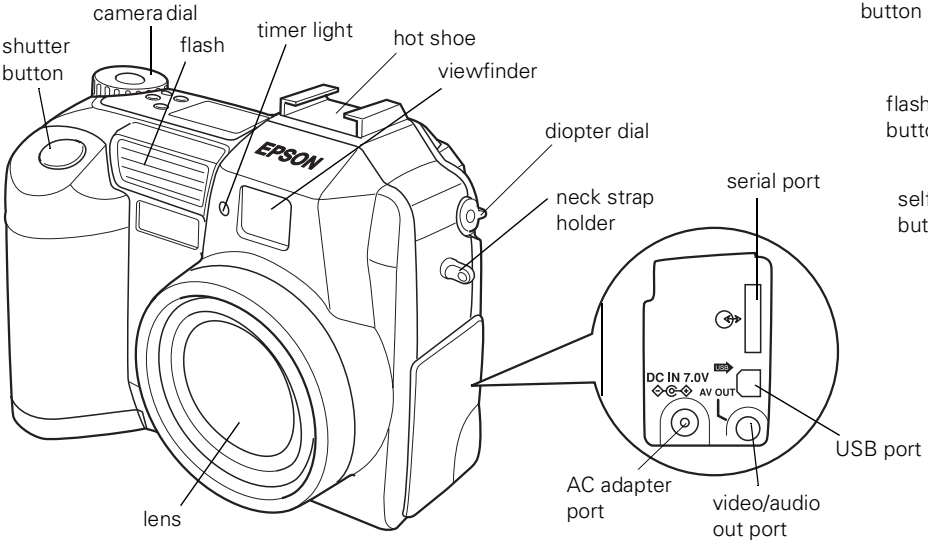
EPSON®

PhotoPC® 3000Z

3 MEGAPIXEL ZOOM DIGITAL CAMERA

User's Guide



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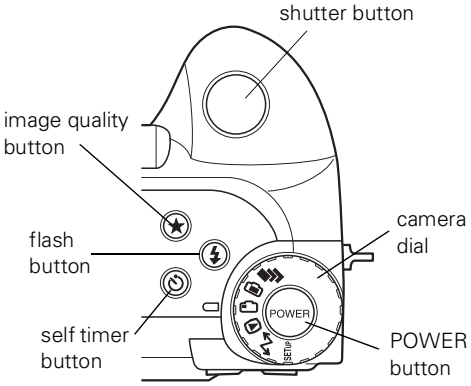

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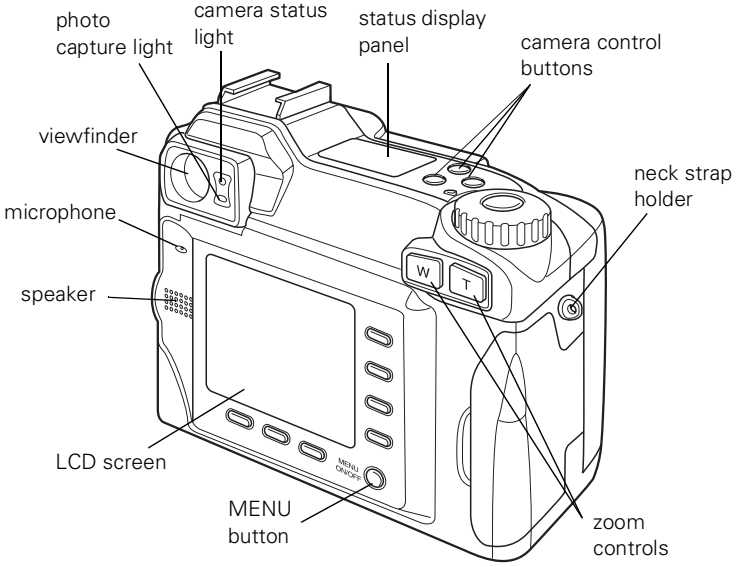

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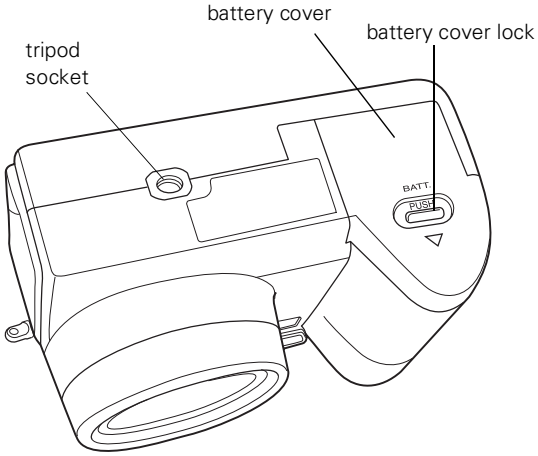

bottom view

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Introduction

Your new EPSON® PhotoPC® 3000Z is an ultra-high resolution, three megapixel, USB and serial digital camera with 3× optical zoom. It includes three different user modes with varied levels of control: a manual mode for expert photographers, a programmed mode for control of your shots and time savings, and a fully automatic point-and-shoot mode for no-fuss photography.

The PhotoPC 3000Z comes with a built-in microphone and speaker that let you add and play back voice messages. You can also capture full-motion video with sound. Your camera puts you in control of all your shots with exposure, flash, white balance, metering, and focus settings.

The PhotoPC 3000Z captures 2048 × 1536-pixel resolution images in 24-bit color, using a 3.34 megapixel CCD sensor. With EPSON's HyPict™ image enhancement technology, the images can be interpolated to 2544 × 1904 pixels (4.8 megapixels) right inside the camera. You can also capture uncompressed Tiff images for excellent detail.

Your PhotoPC 3000Z comes complete with cables, batteries, battery charger, neck strap, soft case, lens cap, and 16MB CompactFlash™ memory card. It also includes a CD-ROM with software and utilities for downloading, uploading, editing, organizing, and printing your pictures.

PhotoPC 3000Z Features

PhotoPC 3000Z includes the following features:

- 3.34 million pixel CCD sensor
- 3× optical zoom
- Bright lens (F2.0) for sharper images
- 24-bit color or monochrome image capture
- Resolutions of 2048 × 1536 pixels, and up to 2544 × 1904 pixels (interpolated) using EPSON's HyPict image enhancement technology
- Produces A3-sized prints (12 × 17 inches) with HyPict photos
- Uncompressed Tiff file format
- 16MB EPSON CompactFlash card that holds approximately 31 fine-resolution or 155 standard-resolution images
- 25-second, QuickTime™ Movie (Motion JPEG) video clip capture at 15 frames per second
- Built-in microphone and speaker that let you record and play back an audio recording of up to 10 seconds for each picture (25 seconds during video clip capture)
- 1.8-inch, wide view, TTL LCD screen that shows 98% of the final image and supports instant preview, playback, and delete
- Quick and easy image transfer and print

- Video and audio output for playing your pictures, video clips, and sound recordings back on a TV, VCR, or projector
- 2× digital zoom, panorama, interval, and continuous shooting
- Macro mode shots as close as 2.36 inches (6 cm)
- Adjustments for white balance, exposure, sensitivity, aperture, shutter speed, and focus
- Built-in flash with leading and trailing slow synchronized modes for night photos and action photos
- Four rechargeable NiMH AA batteries and a fast charger
- Automatic date and time recording for each picture
- Fully USB-compatible with serial and USB cables for transferring photos (see Appendix C for system requirements)

Software

The PhotoPC 3000Z software suite includes the following Windows® and Macintosh® applications:

- Sierra Imaging Image Expert™ software for transferring, organizing, editing, and printing your pictures. Also includes QuickTime Player and Adobe® Acrobat® Reader
- The EPSON Photo!3 application and TWAIN driver for transferring your pictures
- EPSON File Converter for converting files (including presentation slides) into a file format that you can upload into your camera
- EPSON Auto Downloader for instantly transferring your photos to the computer
- EPSON Photo! Print2 for printing your pictures

Optional Accessories

EPSON offers these accessories for the PhotoPC 3000Z:

- Universal AC adapter (part number B867081) for use with any standard (100 to 240 V) electrical outlet
- Additional or replacement NiMH rechargeable batteries (part number B818113)
- Additional or replacement universal NiMH Power Pak, which includes batteries and charger (part number B818172)
- EPSON Image Authentication System™ (IAS) software (part number PPC3–IAS)

Your camera is also compatible with a range of options that can enhance your shots and store more images. You can attach an optional flash to the camera's hot shoe for portrait photos or photos in places that are dimly lit. The camera's lens adapter allows you to add optional lenses and filters for specialized shots. You can also obtain additional CompactFlash memory cards (Type I) and PCMCIA adapters made by leading suppliers, such as Lexar Media,™ Delkin Devices,™ and SanDisk.®

Using Your Documentation

Your EPSON PhotoPC 3000Z documentation gives you all the information you need to use your camera and software.

- Your *Quick Reference Guide* is a handy, portable guide that explains basic settings and how to take pictures.
- You can find instructions for using Image Expert in your electronic *Image Expert 1.8 User's Guide*. (See Chapter 9 for details on reading your electronic manual.)
- This *User's Guide* includes most of the information you'll need and is divided into the following sections:

Using Your Camera and Taking Pictures	Explains setting up your camera, taking pictures and video clips, and playing back pictures and video clips.
Using Your Camera With Your Computer or Video Device	Tells you how to connect your camera to your computer, use your software, download photos, upload photos, present photos, and print photos.
Troubleshooting and Reference	Gives you important reference information: including troubleshooting, safety, and maintenance information.
Index	There is an index at the end of the book.

Safety Instructions

Read all of these instructions before using your camera and battery charger. Also follow all warnings and instructions marked on the camera, battery charger, and batteries.

- To reduce the risk of electric shock, do not remove the camera's cover or open any of the compartments except as instructed in this *User's Guide*.
- To prevent fire or electric shock, do not insert objects through any openings in the camera or battery charger. Do not expose the camera or battery charger to rain or moisture.
- To prevent fire or explosion, do not use the camera or battery charger where inflammable or volatile gas is stored.
- If the camera shows unusual signs such as noise, odor, or smoke, turn it off immediately. Remove the batteries and/or disconnect the AC adapter, and unplug the AC adapter from the electrical outlet.
- If the battery charger shows unusual signs such as noise, odor, or smoke, unplug it immediately.
- To avoid damage to the optics of the camera, do not expose the lens to direct sunlight for extended periods of time.
- Do not use the charger near water. Never insert or remove the charger's power plug with wet hands.
- Keep the charger away from heat sources. Do not use outside the temperature range of 41 to 95°F (5 to 35°C).
- Do not use the charger within reach of children.
- Do not insert batteries backward.
- Use only the types of power sources listed on the charger label and in this *User's Guide*. Always supply power to the charger directly from a standard domestic electrical outlet.
- Do not charge the batteries using an electrical outlet on an airplane.
- Do not use the camera outdoors during adverse weather conditions.

- Do not store the camera near sources of bright light, direct sunlight, high humidity, heat, excessive dirt or dust, or where it will be exposed to strong vibrations or magnetic fields.
- To prevent possible eye injury, do not take flash pictures of faces at close range.
- Avoid sudden temperature changes, which can cause moisture to condense on the camera. Keep the camera in a case or bag if you need to move it from a cold environment to a warm one. Allow time for the camera and its optional accessories to adjust to temperature changes before using them.
- Do not use a frayed or damaged power cord with the AC adapter.
- Remove batteries and/or unplug the camera and the AC adapter and refer servicing to qualified service personnel under the following conditions: if the power cord or plug is damaged; if liquid has entered the camera; if the camera has been dropped or its exterior has been damaged; if the camera or its optional accessories do not operate normally or exhibit a distinct change in performance.
- Adjust only those controls that are covered by the operating instructions.
- Do not attempt to service the camera or battery charger yourself. Refer all servicing to qualified service personnel.
- If the liquid crystal solution contained in the display panel or in the LCD screen leaks out and gets on your hands, wash them thoroughly with soap and water. If it gets in your eyes, flush them immediately with water.
- Do not swing the camera about with the neck strap. This can cause damage to the camera or other objects, or cause injury.
- Do not pull or tighten the camera's neck strap too much when wearing it; this can cause serious injury.
- Keep the camera and all its included parts away from children.

Using Your Camera and Taking Pictures

This section includes information about using your EPSON PhotoPC 3000Z to take and play back pictures, adjust camera settings, and capture video clips. It also explains how to use the camera to set up DPOF files for printing. The following chapters are included in this section:

1 Setting Up Your Camera
2 Taking Pictures
3 Capturing Video Clips and Special Shots
4 Framing, Focusing, and Zooming
5 Adjusting Exposure and Color Settings
6 Playing Back Photos
7 Adjusting Camera Settings
8 Creating DPOF Files for Processing

When you are ready to load your photos onto your computer and work with them; or if you want to use your camera with your computer, TV, or other video device; or to print out your photos, see the next section, "Using Your Camera With Your Computer or Video Device."

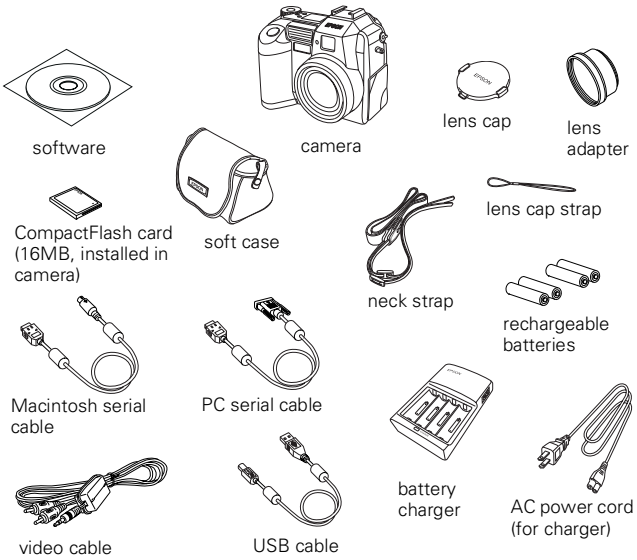
1 Setting Up Your Camera

Before you can start using your PhotoPC 3000Z, you need to charge the batteries. You must also format your CompactFlash memory card and prepare the camera. This chapter describes the following:

- Unpacking your PhotoPC 3000Z
- Using rechargeable NiMH batteries
- Attaching the neck strap
- Attaching the lens cap
- Using the camera case
- Choosing your user mode
- Setting the date and time
- Formatting your CompactFlash memory card
- Removing a CompactFlash memory card
- Installing a CompactFlash memory card
- Adjusting the viewfinder focus

Unpacking Your PhotoPC 3000Z

Make sure you have all the items shown below.



Using Rechargeable NiMH Batteries

Your PhotoPC 3000Z comes with a charger and four rechargeable NiMH batteries that can be recharged hundreds of times.

NOTE

New batteries need to be fully charged three times before you use them. This process takes approximately five or six hours—but you only need to do it once for the first charge. When you need to recharge your batteries in the future, it will take approximately two and a half hours for a full charge.

Charging Batteries

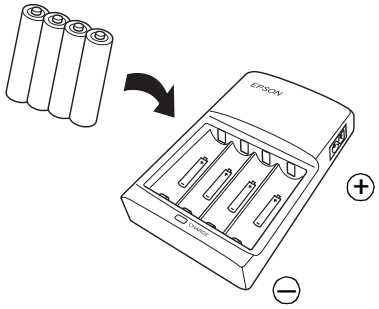
It's important to fully charge your batteries, so they will last as long as possible before they need recharging.

WARNING

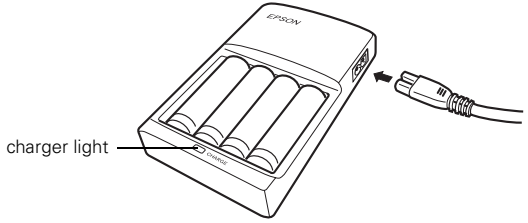
Make sure you use the charger only with EPSON rechargeable NiMH batteries (model EU-24). Do not place any other batteries in the charger. Always charge batteries from the same package as a set. Do not mix old and new batteries. Read all safety instructions in the Introduction before using the charger.

Follow these steps to charge your batteries for the first time:

1. Insert all four batteries, positioning the + and – ends as shown.



2. Connect the battery charger to its power cord, as shown below.



3 Plug the charger into an electrical outlet. The charger light turns red, indicating that the charger is working. When the batteries are charged, after about two and a half hours, the light goes off.

NOTE

Replace the batteries with new EPSON NiMH batteries if the charger light stays on for more than four hours or the charger light flashes for more than half an hour.

4 Now charge your batteries again by unplugging the battery power cord and then plugging it in again.

5 Charge the batteries a third time. After the charger light goes off, unplug the charger. To avoid overcharging, don't leave the charger plugged in for long periods of time after the light goes off.

6 Wait one hour until the batteries cool before removing them from the charger.

WARNING

Batteries are very hot (149 °F [65 °C]) after charging.

7 Before storing the charger, disconnect the power cord and remove the batteries.

(For subsequent charges of your NiMH rechargeable batteries, follow steps 1 through 3, then unplug the charger and follow steps 6 and 7 above.)

Be sure to charge the batteries completely to make them last as long as possible. They can be recharged hundreds of times, so do not dispose of them until they are worn out.

NOTE

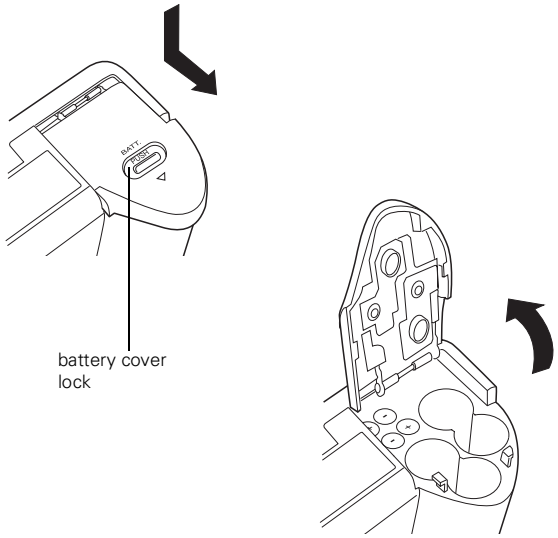
To keep the charger terminals clean, unplug the charger and wipe the terminals with a dry cloth. If you find that your batteries run out faster after you recharge them a few times, make sure you discharge them completely before recharging. If this doesn't help, replace the batteries.

Installing Batteries

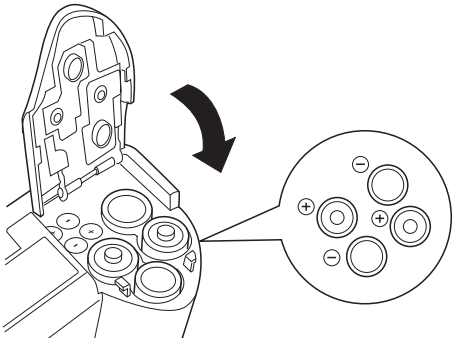
Before you install (or remove) batteries, make sure the camera is turned off.

1 Hold the camera upside down.

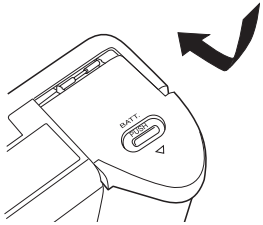
2 Press and hold down the battery cover lock and slide the cover out to open it.



3 Insert four batteries into the compartment, positioning the + and – ends as shown below.



4 Lower the battery cover and slide it in, as shown below.



When the battery power is almost out, a low battery icon appears on the camera's display panel. Be sure to remove and recharge all four batteries at the same time.

Battery Options

If you forget to charge your rechargeable NiMH batteries or if they need to be replaced, the PhotoPC 3000Z camera can also accept the following:

- Single-use AA lithium batteries (longer life, Energizer® recommended)
- Single-use AA alkaline batteries (short term use only, Duracell® Ultra recommended)

WARNING

To avoid the danger of fire or explosion, do not mix different types of batteries. Do not allow the battery contacts to touch metal objects such as coins or keys, which could short out the battery. Read all safety instructions before using batteries.

Note the following safety instructions when handling batteries:

- Use only the EPSON battery charger (Model EU-38) to charge the batteries that came with your camera.
- Use the batteries that came with your camera only in EPSON digital cameras.
- Do not use manganese batteries.
- Do not mix different types of batteries; this can cause fire or explosion.
- Replace all four batteries at the same time. Do not mix old and new batteries.
- Batteries that have not been used for a long time do not charge well. However, with regular use, the batteries will return to normal.
- Batteries discharge at least 2% per day, whether they are used or not.
- If the batteries are charged in a hot environment, or if they are charged repeatedly without being discharged, they will wear out more quickly.
- Do not drop, puncture, disassemble, or mutilate batteries. Do not get them wet or expose them to fire.
- When the camera is not used for long periods of time, remove the batteries and store them at a low temperature in a dry location. Store away from the reach of children.
- To avoid fire or electric shock, do not use batteries that are leaking or damaged in any way.
- If battery acid gets in your eyes or on your skin, immediately rinse the area with water and seek medical treatment. If a battery is swallowed, seek medical treatment immediately.
- Dispose of used batteries according to the manufacturer's instructions and in compliance with all applicable laws. Contact your local government agency for information about battery recycling and disposal.
- Battery life varies depending on the battery type, the manufacturer, and other factors.

Attaching the Neck Strap

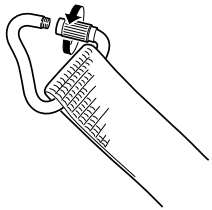
Your camera includes a neck strap that attaches to the camera to make it easier to carry.

WARNING

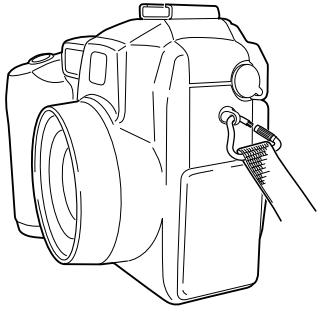
To avoid damaging the camera or other objects, or injuring people, do not swing the camera about. Keep the strap away from children. Do not pull or tighten the strap too firmly while wearing it around your hand or neck; this can cause serious injury.

To attach the neck strap, follow these steps:

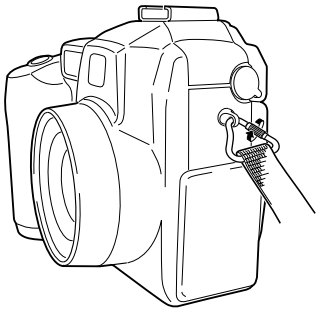
1 Unscrew the screw sleeve on a triangular fastener at one end of the strap.



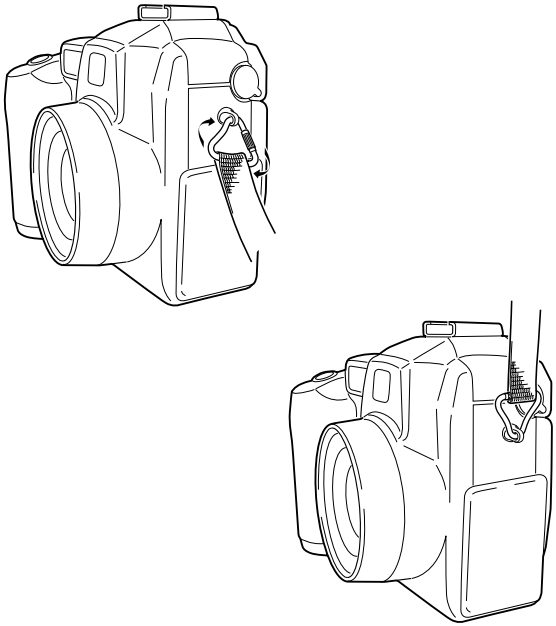
2 Attach the fastener to the camera by passing it through an eyelet on one side of the camera.



3 Tighten the screw sleeve on the fastener as shown below to close it.



4 After securing the fastener, turn it so that the screw sleeve is covered by the strap, as shown below.



5 Repeat steps 1 through 4 to attach the other end of the strap to the other side of the camera.

Attaching the Lens Cap

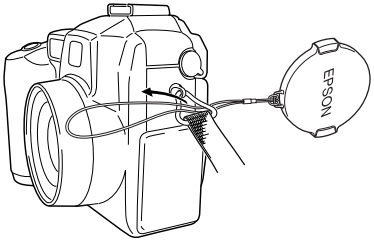
Follow these steps to secure the lens cap to the camera:

1 Pass the end of the string with the shorter loop through the eyelet on the edge of the lens cap.

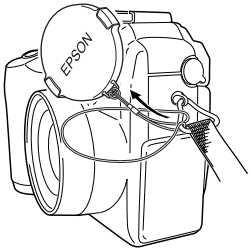
2 Then, pass the end of the string with the longer loop through the shorter loop.

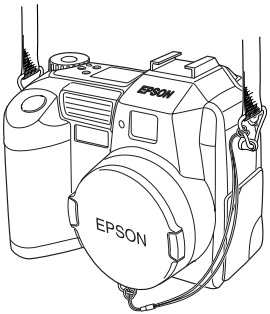
3 Pull the end of the string with the longer loop tight.

4 Pass the end of the string with the longer loop through the neck strap's triangular fastener.



5 Gently pull the lens cap through the string's longer loop until the string is securely attached to the camera.



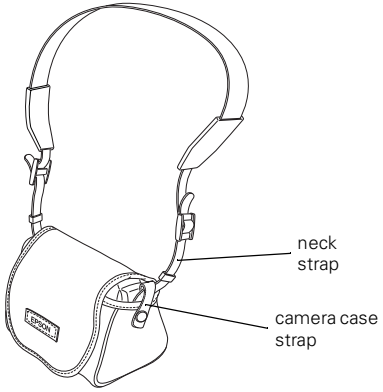


6 Push the lens cap onto the camera. It should snap into place.

To remove the lens cap, press in the lens cap release tabs (on the sides of the cap) as you pull the cap off of the camera.

Using the Camera Case

Place the camera in the case upright, with the front of the camera facing the front of the camera case. Secure the top of the case with the velcro flap. Place the camera case strap over the neck stap and close the snap to secure the case to the neck strap.



Choosing Your User Mode

The PhotoPC 3000Z has three user modes to give you different levels of control over the camera settings. To use more advanced features, such as white balance and exposure adjustment, you must be in Program mode or Manual mode.

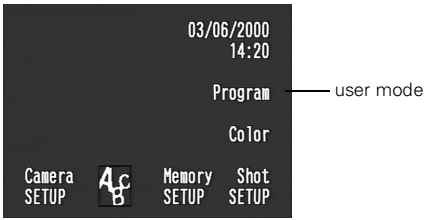
Program This setting is recommended for photographers who want a moderate amount of control over the camera's functions. This is the camera's default mode. Programmed subjects (Normal, Sports, Portrait, and Landscape) tailor your camera settings to the type of picture you're taking. You can also make adjustments to sensitivity, white balance, and exposure.

Manual This mode is for experienced photographers who want complete control over the camera's wide array of settings and features. In addition to changing sensitivity and white balance, you can adjust the shutter speed and aperture, choose a spot or matrix metering system, and focus the camera to three feet, ten feet, or infinity.

Full Auto In this mode, the camera chooses most settings for you. You can simply point and shoot, or you can adjust some basic settings (for example: image quality, digital zoom, macro mode and panoramic mode).

Follow these steps to choose the camera mode:

1. Turn the dial to SETUP and press the POWER button to turn on the camera. You see the SETUP menu:



2. Press the button next to the current user mode to cycle through the three user modes.

NOTE

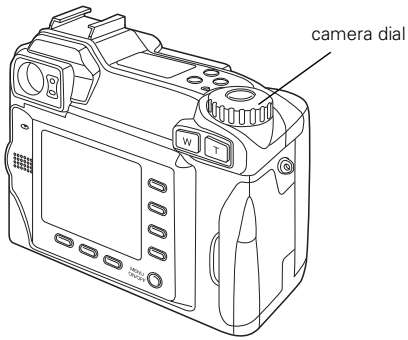
Your user mode stays in effect until you change the setting. If your camera is without battery power for over one hour, the user mode will go back to the Program mode setting.

Setting the Date and Time

Before you use the camera, you need to set its clock. Then the camera will automatically record the date and time for each picture you take. If you remove the batteries for more than one hour (without connecting the camera to an optional AC adapter), you will need to reset the clock.

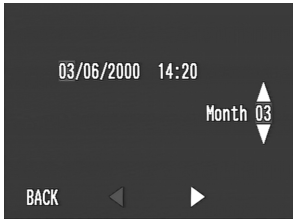
NOTE

You can also set the camera's clock through your computer. See Chapter 9 for instructions on connecting the camera to your computer, and Chapter 13 for instructions on setting the date and time.



Follow these steps to set the date and time:

1. Turn the camera dial to SETUP. Press the POWER button to turn on the camera.
2. You see the clock setting screen with the month highlighted in red.



3. Press the button next to the up or down arrows to increase or decrease the number, until the month is correct.
4. Press the button below the right arrow to select the day, year, and time (military time format). Make adjustments as described in the previous step.

5 When you're finished, press the button under BACK. You see the SETUP menu.

Now you're ready to format the memory card.

Formatting Your CompactFlash Memory Card

You must format CompactFlash memory cards before you use them to store your images. Your camera comes with a 16MB memory card preinstalled in the camera. This card stores your photos, video clips, and audio recordings until you transfer them to your computer and delete them.

CAUTION

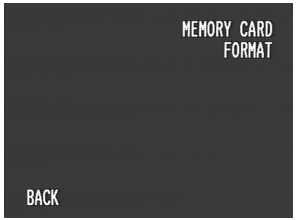
When you format your memory card, all the data is lost, including any photos stored on your card.

Follow these steps to format your memory card:

1 Turn the camera dial to SETUP. You see the SETUP menu.

2 Press the button below Memory SETUP.

The Memory Card Format menu appears if a memory card is correctly installed in the camera.



3 Press the button next to MEMORY CARD FORMAT to format the card. You see a message warning you that all data on the card will be deleted.

4 Press the button next to Yes to format the card, or the button next to No to cancel.

5 Press the button under BACK to return to the SETUP menu.

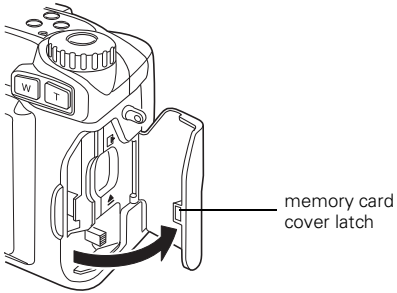
Removing a CompactFlash Memory Card

CAUTION

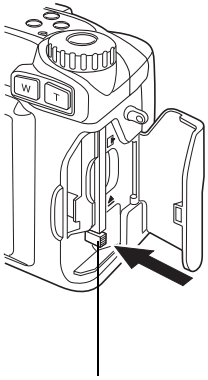
Never remove a card while the camera is on. Data in the card may be lost or damaged.

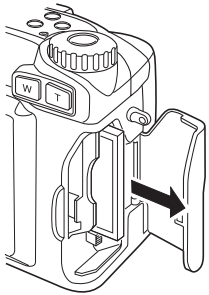
Follow these steps to remove a CompactFlash memory card from the camera:

1. Make sure the camera is turned off. (Press the POWER button to turn off the camera, if it is on.)
2. Place your finger behind the memory card cover latch and pull the cover open.



3. Push in the eject button to release the card. Then pull out the card and close the cover.



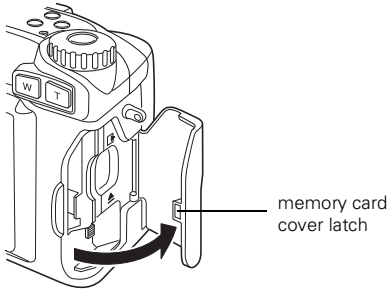


Installing a CompactFlash Memory Card

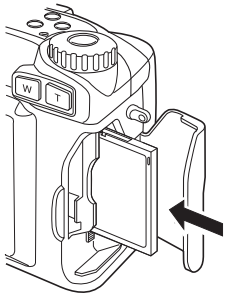
You can purchase additional CompactFlash memory cards (Type I, 4MB to 192MB) from leading suppliers like Lexar Media, Delkin Devices, and SanDisk. See page B-2 for more information.

Follow these steps to install a memory card:

1. Make sure the camera is turned off. (Press the POWER button to turn off the camera, if it is on.)
2. Place your finger behind the memory card cover latch and pull the cover open.



3. Insert the card all the way into the memory card slot. Make sure the front of the card is facing the same direction as the front of the camera, and the arrow on the card's label is pointing in.

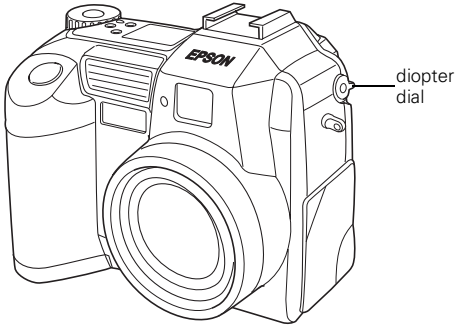


4. As you insert the card, the eject button pops up. Close the memory card cover.

Adjusting the Viewfinder Focus

You can adjust the viewfinder's focus using the diopter. This is useful if you wear glasses and want to remove them to take pictures with the viewfinder.

To adjust the focus, simply look through the viewfinder and move the diopter dial up or down until you have a clear view.



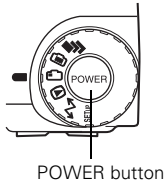
2 Taking Pictures

Taking pictures with the PhotoPC 3000Z is similar to using a traditional camera. This chapter gives the following information for taking pictures:

- Using the camera dial
- Reading the status display panel
- Taking pictures with the viewfinder
- Taking pictures with the LCD screen
- Setting image quality
- Using the flash
- Taking pictures with the timer
- Selecting color or black and white mode
- Using programmed subject settings
- Enabling the confirmation screen
- Adding sound to pictures
- Using quick playback and delete

Using the Camera Dial

The camera dial has six settings: three for taking pictures, and three for performing other functions, such as setting up your photos or playing them back on the LCD screen.



To turn on the camera, remove the lens cap, then press the POWER button in the center of the dial. (Press it again to turn the camera off.)

Camera dial settings include the following:

Use this setting for video clip capture, continuous shooting, and interval shooting. See Chapter 3 for details.

Use this setting to take photos with the LCD screen. See page 2-6 for details.

Use this setting to take photos with the optical viewfinder. See page 2-4 for details.

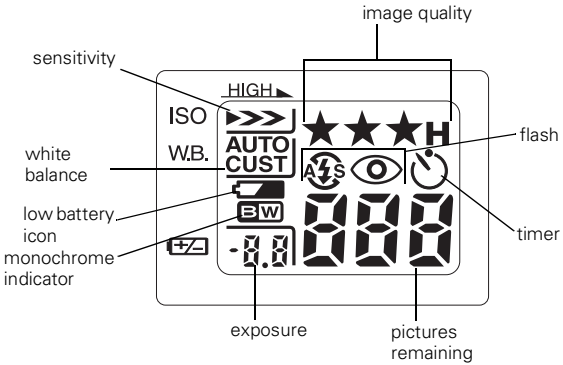
Use this setting to play back and delete photos and video clips, and add audio recordings to your photos. See Chapter 6 for details.

Use this setting whenever you are connecting your camera to the computer. Also use it to create DPOF files with the PrintMark program. See Chapter 8.

SETUP Use this setting to set up or view information about your camera on the Setup screen. See Chapter 1 and Chapter 7 for information.

Reading the Status Display Panel

When your camera dial is turned to , , or , the status display panel (on the top of the camera) shows the camera's current settings and how many additional pictures you can take.



Checking the Battery

When your battery power is almost out, the low battery icon appears on the display panel; it flashes when your battery power is too low to use the camera. You need to recharge or replace the batteries or use the optional universal AC adapter when you see this icon.

Although you may be able to use the camera with low batteries, it needs full battery power to operate reliably.

NOTE

Several factors can affect battery life, including the surrounding temperature and the type of batteries you use. Low temperatures—especially below 50 °F (10 °C)—drain batteries faster. See page 1-2 for battery use instructions.

Checking the Picture Counter

The large number in the lower right of the status display panel shows how many additional pictures you can take.

This number is affected by the image quality setting. Also, if you have any audio and/or video recordings stored on your memory card, the number on the display panel may be greater than the actual number of remaining pictures.

When the memory card is full, the number on the display panel reads **0**, the camera status light on the back of the camera flashes red, and you can no longer use the shutter button. Before you can take any more pictures, you need to delete some of the images on the memory card. (See page 6-3 for instructions.)

If you want to save your photos before you delete them, connect the camera to your computer (as described in Chapter 9), then transfer the pictures (as described in Chapter 10).

Checking Other Status Information

Instead of the number of pictures remaining, you may see one of the following in the lower right corner of the status display panel:

- In Program mode or Manual mode, the exposure value appears on the left and the shutter speed appears on the right when you hold the shutter button down halfway. See page 1-9 for more information about user modes.

- When you turn the camera's dial to SETUP, **SEt** is displayed. No other information appears in the status display panel.

- While you make an audio recording, rEc appears in this space.
- While you take photos using the interval shooting feature, Int appears on the display panel.

Taking Pictures With the Viewfinder

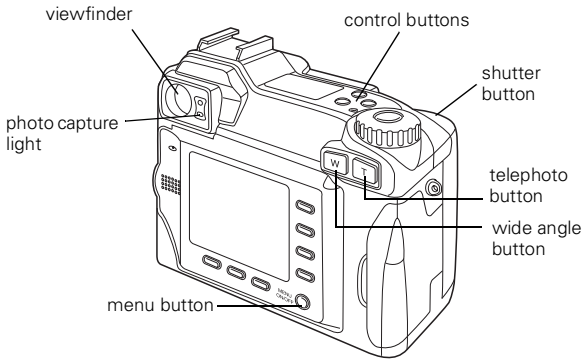
You can capture an image as you would with any point-and-shoot auto-focus camera: look through the optical viewfinder and press the two-step shutter.

NOTE

You need to use the LCD screen when you make audio recordings or use the panorama, macro, and digital zoom features.

Remove the lens cap, then follow these steps:

1. Make sure you are at least 20 inches (50 cm) away from your subject. (If you want to get closer, use macro mode with the LCD screen, as described on page 4-4.)
2. Press the POWER button to turn on the camera and turn the camera dial to . Wait until the photo capture light stops flashing and remains a steady green.



3. Use the camera's control buttons to make any changes you want to image quality, the flash, or other basic settings. (Instructions for changing basic settings start on page 2-9.)

NOTE

To change the programmed subject setting (when the user mode is set to Program), or to make changes to exposure, white balance, or other advanced settings, press the MENU *button to see the Viewfinder menu. See the specific setting's section for more details.*

4 Look straight through the viewfinder and center your subject within the cross hairs.

5 Push the T (telephoto) button to zoom in on your subject, or the W (wide angle) button to zoom out.

6 Hold the shutter button halfway down to lock the camera's settings. The photo capture light flashes until the lens locks in focus and the camera determines the exposure.

While holding down the shutter button, you can reframe your picture and move your subject off-center if you want.

7 Press the shutter button the rest of the way down to take the picture.

8 Hold the camera still until the shutter snaps, then release the shutter button.

NOTE

If there is a delay after you press the shutter button, make sure you hold the camera still until it the shutter snaps, to avoid blurring your images.

After you take a picture, the green photo capture light flashes. This indicates that the image was captured and the camera is processing it. When the light stops flashing, the image is saved.

CAUTION

If you set the camera down while the light is still flashing, make sure you handle it carefully. The camera may lose your image if you set it down too hard.

Saved images remain on the memory card even when you turn off the camera or remove the memory card or batteries.

Taking Pictures With the LCD Screen

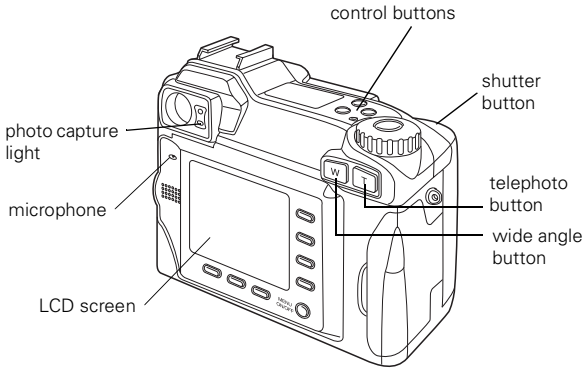
The LCD screen lets you see a live preview of what the camera's lens sees at any moment. Although you can use this setting anytime, you always choose it when you want to use the macro, panorama, or digital zoom features, or when you want to make audio recordings to go with your photos.

NOTE

Before you begin to take pictures, you can use the SETUP menu to turn on audio recording with the Confirmation setting. See page 2-17 for details.

Remove the lens cap, then follow these steps:

1. Make sure you are at least 20 inches (50 cm) away from your subject. (If you want to get closer, use macro mode as described on page 4-4.)
2. Turn the camera dial to to see the View menu. Wait until the camera photo capture light stops flashing and remains a steady green.



You see a preview of your picture on the LCD screen, with the image quality and flash settings in the top left corner of the screen.

The following screen illustrates what you see if your camera is set to Program user mode, the default setting. The settings look different if you're using Full Auto or Manual user mode. (See page 1-9 to change your setting.)

NOTE

If you're using batteries, the camera shuts off automatically after a designated period of inactivity. (The default is 30 seconds. See page 7-1 for instructions on setting the power off interval.) When it is connected to the AC adapter, the camera shuts off automatically after 15 minutes. If the image on your LCD screen disappears, press the shutter button to "wake" the camera.

3 Using the preview image to guide you, make changes to the settings on the View menu, if you like.

For details, see Chapter 3 for special shots (including video clips), see Chapter 4 for framing, focusing, and zooming shots, or see Chapter 5 for color and exposure settings.

NOTE

You can also use the camera's buttons to change the image quality, flash setting, or timer. (See the following sections in this chapter for details on these settings.)

4 Push the T (telephoto) button to zoom in on your subject, or the W (wide angle) button to zoom out. You see a display with green zoom steps and the current zoom position in yellow.

5 Center your subject on the screen, then press the shutter button halfway down to lock the auto focus and exposure.

The photo capture light stops flashing and you see a green circle ⭘ on the screen when the lens locks in focus and the camera locks its exposure settings. While holding the shutter button down, you can reframe your picture if you want.

6 Press the shutter button the rest of the way down to take the picture.

7 Hold the camera still until the shutter snaps. Then release the shutter button.

NOTE

If there is a delay after you press the shutter button, make sure you hold the camera still until the shutter snaps, to avoid blurring your images.

If the Confirmation setting is on, you see a confirmation screen.

NOTE

You enable the confirmation screen in the Shot SETUP menu. See page 2-16 for detailed instructions on using the confirmation screen.

From the confirmation screen, you can do the following:

- Press the button next to Delete if you don't want the picture.
- Press the button next to Rec Sound to record a message. You see a countdown on the screen. During this time, you can record a message into the camera's microphone.

- Press the button next to ▶ to instantly play back your images. (Press the button under BACK to return to the View menu.)

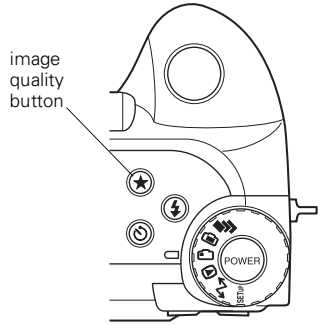
When the camera's green photo capture light stops flashing, you're ready to take another picture.

Setting Image Quality

The PhotoPC 3000Z has four image quality (resolution) settings. Press the image quality button on top of the camera to cycle from one setting to the other.

NOTE

The camera dial must be turned to , , or to set the image quality.



The image quality icons appear on the status display panel as described below.

Standard JPEG

★ Produces color or black and white images at 640 × 480 pixels. The CompactFlash memory card holds approximately 155 standard image quality pictures without audio recordings, but the images include less detail when enlarged. This setting is good for pictures that are viewed on screen or on the Internet.

Fine JPEG

★★ Produces color or black and white images at 2048 × 1536 pixels with moderate compression. Your pictures include ample detail, and the CompactFlash memory card holds approximately 31 pictures without audio recordings. This setting is best for 8 × 10-inch prints.

Super Fine JPEG

★★★ Produces color or black and white images at 2048 × 1536 pixels with low compression. Your pictures include greater detail, and the CompactFlash memory card holds approximately 15 pictures. With less compression, this setting is better for images you are enlarging up to 11 × 14-inches.

HyPict JPEG

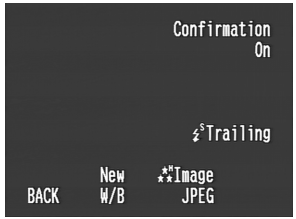
★★★ Produces color or black and white images at 2544 × 1904 pixels (interpolated) with moderate compression. Your pictures include excellent detail, and the CompactFlash memory card holds approximately 12 HyPict pictures. This setting is best for images you are enlarging up to 12 × 17-inches.

Uncompressed Tiff

★★★ Produces color and black and white images at 2048 × 1536 pixels with no compression. Your pictures include perfect detail without the distortion that compression may cause. You can use this mode only when you have at least 9.1MB free on your CompactFlash memory card. Your included memory card can hold 1 Uncompressed Tiff picture or 3 Tiff panorama pictures.

You can enable (or disable) Uncompressed Tiff mode in the Shot SETUP menu. Follow these steps:

1. Turn the camera dial to SETUP and press the POWER button to turn on the camera. You see the SETUP menu.
2. Press the button next to Shot SETUP to go to the Shot SETUP menu.



3 Press the button under Image JPEG to change the setting to Image Tiff. (Press the same button to change the setting back.) You see a message warning you to use a card with at least 9.1MB of free space.

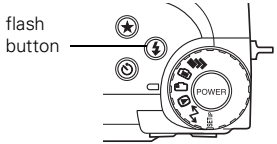
4 Press the button under BACK to return to the SETUP menu.

NOTE

- *To capture Tiff photos, make sure the image quality is set to ★★★.*
- *You will notice a delay of approximately 32 seconds while the camera processes your image in Tiff mode. You will also notice a delay when playing back Tiff photos.*
- *If you want to take multiple shots in Uncompressed Tiff mode, you can buy a higher-density CompactFlash memory card, which lets you store more photos. See Appendix B for details. (You can still store several JPEG images with a picture in Tiff mode.)*

Using the Flash

Press the flash button to cycle through the five flash settings.



Your camera has a hot shoe to attach an optional external flash. See Appendix B for more information on purchasing and attaching an external flash.

NOTE

The camera dial must be turned to , , or to change the flash setting. You can't use the flash in continuous shooting or video clip capture mode.

After you take a picture with the flash, the flash icon blinks until it is fully recharged. Your flash setting remains in effect even after you turn off the camera.

TIPS

- *When you're using the Flash Off setting, hold the camera steady or use a tripod to avoid capturing blurry images.*
- *If you are taking pictures outdoors in bright light, the camera may reduce the exposure and darken your subject. To brighten your subject without over-exposing the whole picture, you can use the Forced Flash setting.*

An icon for each setting appears on the status display panel, as shown below:

Auto

The flash goes off automatically whenever it's needed for adequate lighting (default setting).

Forced Flash

The flash goes off with every picture you take. Use this setting to compensate for backlighting (when you are facing a light source).

Flash Off

The flash is disabled, even when lighting is inadequate. Use this setting for special effects, where flash photography is prohibited, or for macro mode close-ups.

Red-eye Reduction

Use this setting to eliminate the red-eye effect (the reddish reflection of the flash in your subjects' pupils) that flash photography often produces.

Slow Synchronized Flash

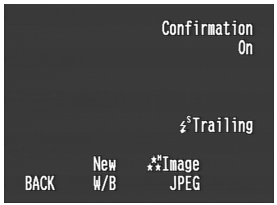
Slow synchronized flash causes the aperture to stay open longer, allowing more light to enter the camera.

The camera has two slow synchronized flash settings. The leading setting sets off the flash first, then exposes the subject and takes the picture. Hold the camera still or use a tripod when you are using the leading setting (see Appendix B). The trailing setting flashes at the end of the exposure, allowing you to capture background motion while freezing your subject.

Selecting a Slow Synchronized Flash Setting

Follow these steps to select the setting you want:

1. Turn the camera dial to SETUP. You see the SETUP menu.
2. Press the button next to Shot SETUP. You see the Shot SETUP menu:



3. Press the button next to Leading or Trailing.
4. Press the button under BACK to return to the SETUP menu.

NOTE

Slow synchronized flash is available only in the Program or Manual user modes. If you are using your camera in Manual mode, make sure you don't set the flash mode to Ext Flash*. See page 1-9 for information about changing the user mode.*

Taking Pictures With the Timer

Setting the timer creates a 10-second delay between the time you press the shutter button and the actual image capture. This allows you to take a picture of yourself.

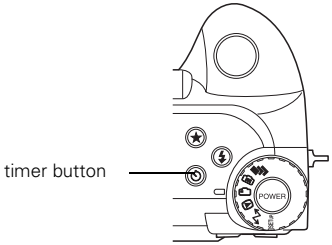
NOTE

You can also combine continuous, interval shooting, or video clip capture with the timer for delayed automatic capture of images. This allows you to photograph yourself in motion. See Chapter 3 for more information.

Follow these steps to take a single picture with the timer:

1. Secure the camera on a flat surface or on a tripod. (See page B-4 for information on attaching the camera to a tripod.)
2. Turn the camera's dial to or . Then wait until the photo capture light stops flashing and remains a steady green.

3 Press the ⏲ timer button on the top of the camera. The timer icon appears in the status display panel.



4 Press the shutter button all the way down. The timer icon and the red timer light on the front of the camera flash slowly for eight seconds. Then they flash rapidly for two seconds before the shutter is released.

The camera clicks when the image is captured. The photo capture light on the back of the camera flashes green as the PhotoPC 3000Z processes the image(s).

NOTE

To cancel a timer picture after you've pressed the shutter button, press the shutter button again, or press the ⏲ timer button.

Selecting Color or Black and White Mode

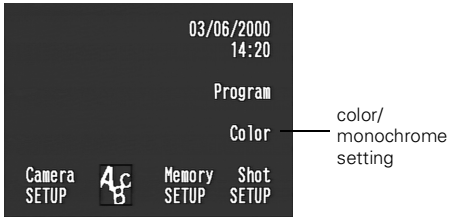
You use the SETUP menu to switch between color and black and white pictures.

NOTE

There is no difference between the file sizes of color and black and white pictures.

Follow these steps:

1 Turn the camera dial to SETUP. You see the SETUP menu.



2 Press the button next to Monochrome or Color to change to your desired setting.

Using Programmed Subject Settings

The Program user mode (your camera's default mode) provides four programmed settings that let you choose the type of shot you're taking. The camera automatically assigns the optimum exposure, metering method, and sensitivity for your subject.

Normal

Appropriate for most photographs. Uses the following settings: auto exposure and matrix metering.

Sports

Recommended for action photographs. Uses the following settings: high shutter speed, automatic sensitivity, and matrix metering.

Portrait

Recommended for portraits. Uses the following settings: spot metering and aperture fixed at F2.0.

Landscape

Recommended for landscapes or scenery. Uses the following settings: matrix metering and aperture set to F8.0. (The aperture automatically changes to F2.0 when the subject is in dim light.)

Follow these steps to use programmed subject settings:

1. Remove the lens cap and press the POWER button to turn on the camera.
2. Set the camera to Program user mode (the default mode). See page 1-9 for instructions.
3. To take a picture with the LCD screen, turn the camera dial to ▭. You see the View menu.

To take a picture with the viewfinder, turn the camera dial to . Then press the MENU button. You see the Viewfinder menu.

4 Press the button under the Program setting to cycle through the four subject settings.

5 Take your picture. (See page 2-4 or 2-6 for instructions.)

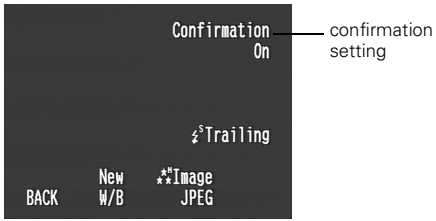
Enabling the Confirmation Screen

The confirmation screen needs to be on if you want to add recordings when you are taking photos. The confirmation screen shows you a quick view of your picture right after you take it. Then you can add a recording, delete the image, or play back your photos instantly.

Follow these steps to turn the confirmation screen on or off:

1 Turn the camera dial to SETUP to display the SETUP menu.

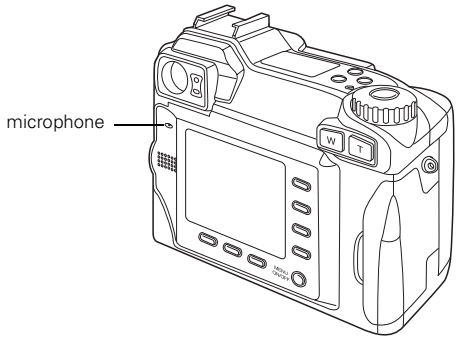
2 Press the button next to Shot SETUP. You see the Shot SETUP menu with the current confirmation setting.



3 Press the button next to Confirmation to change the setting to Off or On.

Adding Sound to Pictures

Your camera has a built-in microphone that lets you add an audio recording of up to 10 seconds to each photo. You can record audio in any user mode. You can make a recording immediately after shooting a photo, or add it later. (For information about adding a recording when playing back photos later, see page 6-6. For instructions on playing back recordings with your camera, see page 6-7.)



NOTE

When taking photos, you can only record audio if the LCD screen is turned on and the Confirmation setting is enabled, as described here. Audio recordings take up memory on your CompactFlash memory card and reduce the number of photos you can store.

Follow these steps to add a recording right after taking a picture:

1. Make sure the confirmation screen is enabled, as described on page 2-16.
2. Turn the camera dial to 📷. Center the subject on the LCD screen.
3. Press the shutter button halfway down to lock the auto focus.
4. When the photo capture light stops flashing and you see a green circle ● on the screen, reframe your image if you want, then press the shutter button the rest of the way down.

5 Hold the camera still until the shutter snaps. Then release the shutter button. After a moment, you see the confirmation screen.

6 Press the button next to Rec Sound. You see the message Sound recording... and a countdown of the recording time.

7 Speak clearly into the microphone to record your message.

You can record a message for up to ten seconds. To stop recording at any time, press the button under Stop.

Using Quick Playback and Delete

You can instantly play back the photo you just took, along with all your other photos. You can also delete the image if you don't want to save it. (See Chapter 6 for additional playback options that you can use in the camera's Playback menu.)

Follow these steps:

1 Make sure the confirmation screen is enabled, as described on page 2-16.

2 Turn the camera dial to 📷. Center the subject on the LCD screen.

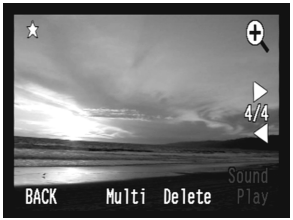
3 Press the shutter button halfway down to lock the auto focus.

4 When the photo capture light stops flashing and you see a green circle ● on the screen, reframe your image if you want, then press the shutter button the rest of the way down.

5 Hold the camera still until the shutter snaps. Then release the shutter button. After a moment, you see the confirmation screen.

6 To delete the image, press the button next to Delete. Your image is deleted and the camera returns to the View menu.

To play back an image, press the button next to the playback icon. You see the quick playback screen.



You can do any of the following from the quick playback menu:

- Press the button under Multi to view multiple images at once. (See page 6-2 for details.)
- Press the button next to Sound Play to play back any recordings you made for your images.
- Press the button under Delete to delete an image from your memory card. (To delete a recording, see page 6-8.)
- Press the button next to the magnifying glass to enlarge an image. (See page 6-8 for details.)

Press the button under BACK to return to the View menu.

3 Capturing Video Clips and Special Shots

Your PhotoPC 3000Z lets you take shots of moving and changing subjects, including video clips and time lapse photos. You can also take quick sequences of shots, without having to wait for the camera to process each image. This chapter explains how to use these features in the following sections:

- Recording video clips
- Continous shooting
- Interval shooting

Recording Video Clips

You can capture 25-second video clips at 15 frames per second with your camera. The images are saved at 320 × 240 pixels in the Motion JPEG format. (They play back on your computer in the QuickTime Movie format.)

NOTE

- *Hold the camera upright when capturing video clips. If you hold the camera sideways, your video will play back sideways. You can't rotate video clips without a separate video editing program.*
- *If you want to adjust any camera settings, such as white balance, sensitivity, or macro mode, turn the camera dial to ☎ to see the View menu and adjust the settings, then turn the camera dial back to 🖳. See Chapters 4 and 5 for more information.*

Follow these steps to record a video clip:

1 Turn the camera dial to and press the POWER button to turn on the camera.

You see a screen like the following:

2 To turn the sound on or off, press the button next to the Sound setting.

3 Push the T (telephoto) button to zoom in on your subject or the W (wide angle) button to zoom out. You see a display with green zoom steps and the current zoom position in yellow.

Make sure it is zoomed to the position you want; you can't change the zoom setting once you've started recording.

4 Press the shutter button to begin recording your video clip. If you want to stop the recording, press the shutter button again.

You see the red letters REC on the screen while your camera is recording. When the recording is done, the camera displays Please wait... and takes a minute to store the video.

To play back your video clip, see page 6-9.

Continuous Shooting

In this mode, you can capture a complex motion in a series of steps. You can capture the following numbers of continuous shots per sequence: thirty-seven standard images (two per second), seven fine images (one per second), or up to three super fine images (one per second).

You can't use the flash for continuous shooting, so make sure you have adequate lighting for your pictures. Also, you can't select the HyPict or Tiff image quality settings.

NOTE

If you want to adjust any camera settings, such as white balance, sensitivity, or macro mode, turn the camera dial to 📷 to see the View menu and adjust the settings, then turn the camera dial back to 🎞. See Chapters 4 and 5 for details.

Follow these steps to take a sequence of pictures:

1. Make sure you are at least 20 inches (50 cm) away from your subject.
2. Turn the camera dial to 🎞. Wait until the photo capture light stops flashing and remains a steady green.
3. Press the button under Mode Change to change to Continuous Shooting mode.

   You see a preview of your picture on the LCD screen with a red frame around it. CONTINUOUS appears on the screen.

4. Center your subject in the red frame.
5. Press and hold the shutter button all the way down.

   If the camera's shutter sound is enabled, the camera clicks as it captures each picture. (See page 7-2 to enable camera sounds.)
6. When the camera has captured a sequence of pictures, the green photo capture light turns off. Release the shutter button.

NOTE

If you continue to hold down the shutter button after the first sequence of pictures, the camera will pause to process the images and then take a second sequence. The camera will continue to take pictures until the memory card is full.

Continuous Shooting Using the Timer

You can also combine continuous shooting with the timer to delay automatic capture of a series of images. This allows you to photograph yourself in motion.

NOTE

You can capture 37 standard (2 per second), 7 fine (1 per second), or up to 3 super fine (1 per second) images.

1. Secure the camera on a flat surface or on a tripod. (See page B-4 for information on attaching the camera to a tripod.)
2. Turn the camera dial to . (Press the POWER button to turn on the camera.) Wait until the photo capture light stops flashing and remains a steady green.

   You see a preview of your picture on the LCD screen, with a red frame around it. CONTINUOUS appears on the screen.

3. Center your subject in the red frame.
4. Press the timer button. The timer icon appears on the status display panel to indicate that the timer is enabled.
5. Press the shutter button.

   You have 10 seconds to get ready for "action" in front of the camera. The timer icon and the red timer light on the front of the camera flash slowly for eight seconds. Then they flash rapidly for two seconds before the shutter is released.

   If the camera's shutter sound is enabled, the camera clicks as it captures each picture. (See page 7-2 to enable camera sounds.)

Interval Shooting

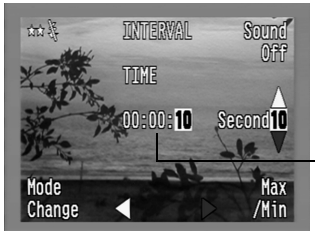
You can use this time lapse feature to capture scenes that change over time, such as a sunset or a busy street corner. Your camera lets you set a time interval from 10 seconds to 24 hours. Interval shooting is available for all user modes.

NOTE

- *When you're adding audio recordings or taking pictures with HyPict image quality, the shortest time interval available is 20 seconds.*
- *If you want to adjust any camera settings, such as white balance, sensitivity, or macro mode, turn the camera dial to to see the View menu and adjust the settings, then turn the camera dial back to . See Chapters 4 and 5 for more information.*

Follow these steps to use the time lapse feature:

1. Secure the camera on a flat surface or on a tripod. (See page B-4 for information on attaching the camera to a tripod.)
2. Turn the camera dial to . Press the POWER button to turn on the camera and wait until the photo capture light stops flashing and remains a steady green.
3. Press the button under Mode Change twice. You see the following screen:



The current setting for the time lapse interval (hours, minutes, and seconds) appears in the center of the screen, with seconds highlighted.

4 Press the buttons next to the up and down arrows to change the highlighted setting, then press the button under the left arrow to move to the next setting and repeat the process. Continue until you've set the correct interval.

NOTE

You can also choose the maximum interval (24 hours) or the minimum interval (10 seconds) by pressing the button next to Max/Min.

5 Press the button next to Sound to turn the setting to Off or On.

6 Press the shutter button to take the first picture.

The camera turns off automatically after you take the first picture, then turns on again after the selected interval to take the next photo.

While the camera is on in this mode, Int appears in the display panel.

7 To stop taking pictures, press the POWER button to turn off the camera.

The number of photos you can take is limited by the space on the CompactFlash memory card. With a higher capacity card, you can store more pictures. (See Appendix B for more information.)

TIP

You can use a program like QuickTime™ Pro, Macromedia® Flash™ or Adobe® ImageReady™ (included with Photoshop® 5.5) to turn your interval photos into time lapse movies that you can play on your computer or on the Internet. Set the camera to ★ Standard image quality or resize your images in an image editing program for a manageable movie file size. You can also use QuickTime Pro to edit your video clips. See your program's documentation for more information.

4 Framing, Focusing, and Zooming

Your camera has great shot-capturing capabilities that allow you to get the exact image you want. You can use the 2× digital zoom, frame your image as a panorama, or focus in on a close object with macro mode. You can also manually focus the camera to a fixed point. This chapter includes the following sections:

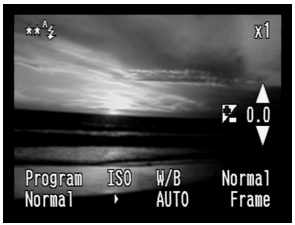
- Taking digital zoom pictures
- Taking panoramic pictures
- Taking close-ups with macro mode
- Adjusting the focus

Taking Digital Zoom Pictures

Digital zoom pictures are magnified two times (2×). The automatic cropping effect makes file sizes smaller. In HyPict mode, the camera uses interpolation to give you more image data for a better final printed image.

Follow these steps to take digital zoom pictures:

1 Turn the camera dial to 📷. You see the View menu.



NOTE

This example shows the View menu when the user mode is set to Program. *Depending on the user mode setting, your View menu may look different.*

2 For Program or Full Auto mode, press the button next to ×1. For Manual mode, press the button under Menu Change, then press the button next to ×1.

The words DIGITAL ZOOM appear on your LCD briefly. A yellow frame appears around the previewed image, and the setting changes to ×2.

3 Press the shutter button halfway to lock the auto focus and exposure. When the camera locks its settings, the photo capture light stops flashing and you see a green circle ● and flash and exposure settings on the screen. If you want, you can reframe your picture while holding the button down.

4 Press the button all the way down to capture the image.

The digital zoom format remains active until you change it or turn off the camera.

NOTE

Since the digital zoom mode magnifies the image by cropping it, there is less information and the file is smaller. It's best to print the image in a smaller format, such as 4 × 6 inches.

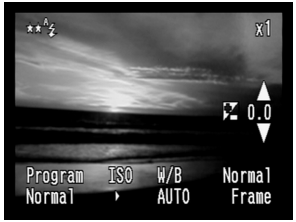
Taking Panoramic Pictures

Images in the panorama mode are long and narrow, although they are not captured at a wider angle than normal images. Strips at the top and bottom of the image area are cropped out. The resulting smaller image sizes mean you can store more pictures in the panorama format.

You can take panoramic pictures using any user mode. Follow these steps:

1 Turn the camera dial to .

You see the View menu. The current frame setting appears in the bottom right corner.

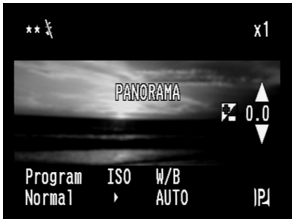


NOTE

This View menu illustrates what you see if your user mode is set to Program*. Your View menu will look different if the user mode is set to* Manual *or* Full Auto*.*

2 Press the button next to the frame setting to cycle through the frame settings until you see the (panorama) setting.

For a few seconds, the word PANORAMA appears on the LCD screen, and a black frame appears around the previewed image.



3 Press the shutter button halfway to lock the auto focus and exposure. When the camera locks its settings, the photo capture light stops flashing and you see a green circle ● on the screen. If you want, you can reframe your picture while holding the button down.

4 Press the button all the way down to capture the image.

The Panorama mode remains active until you change it or turn off the camera.

Taking Close-Ups With Macro Mode

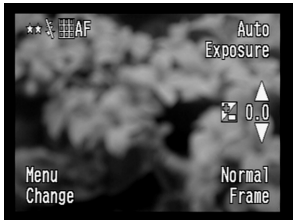
You can use the camera's macro mode to take pictures as close as 2.36 inches (6 cm).

NOTE

- *When you take macro close-ups, you should use a tripod (as described in Appendix B) and disable the flash. Otherwise, your pictures may appear blurry and washed out.*
- *If you are taking close-ups between 2.36 inches (6 cm) and 8 inches (20 cm), the camera must be zoomed all the way out. Press the* W *(wide angle) button until the ▨ icon is highlighted in yellow and you can't zoom any further.*

Follow these steps:

1 Turn the camera dial to 📷. You see the View menu.

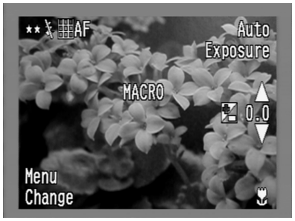


NOTE

This View menu illustrates what you see if your user mode is set to Program. *Your View menu will look different if the user mode is set to* Full Auto *or* Manual.

2 Press the button next to the frame setting until you see the (macro) setting.

A green frame appears around the preview image and for a few seconds, the word MACRO appears on the LCD screen.



3 Press the shutter button halfway to lock the auto focus and exposure. When the camera locks its settings, the photo capture light stops flashing and you see a green circle on the screen. If you want, you can reframe your picture while holding the button down.

4 Press the button all the way down to capture the image.

Macro mode remains active until you change it or turn off the camera.

Adjusting the Focus

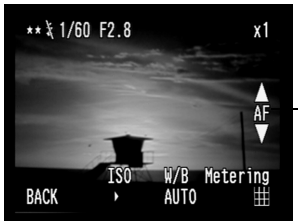
The PhotoPC 3000Z lets you manually select a fixed focus. Follow these steps:

1 Make sure that the camera is set to Manual user mode. (See page 1-9 for details.)

2 Turn the camera dial to .

3 If you want to use the macro feature or take panoramas, press the button next to the frame setting until (macro) or (panorama) appears.

4 Press the button under Menu Change until the following screen appears:



5 Press the buttons next to the up and down arrows to select a manual focus setting.

If the camera is set to Normal Frame or [P], you can choose from the following settings:

AF The camera determines the focus automatically.

Focal point is about three feet.

Focal point is about 10 feet.

Focus is infinity.

If you're using the macro mode, you can choose either M1 (focal point is about 8 inches) or M2 (focal point is about 20 inches).

6 Press the shutter button halfway to lock the camera's exposure settings. When the camera locks its settings, the photo capture light stops flashing and you see a green circle on the screen. You also see the shutter speed and aperture setting at the top of the screen in yellow. If you want, you can reframe your picture while holding the button down.

7 Press the button all the way down to capture the image.

Your manual focus setting remains active until you change it or change your user mode.

5 Adjusting Exposure and Color Settings

Light is one of the most important considerations for taking great photographs. Good color composition is also invaluable. Your PhotoPC 3000Z gives you complete control over exposure, color, and other lighting condition settings. See the following sections to change your settings:

- Adjusting exposure
- Adjusting the sensitivity setting
- Adjusting the white balance setting
- Changing the metering method
- Fixing condition settings
- Exposure and color tips

NOTE

The settings in this chapter require that you set your user mode to **Manual** *or* **Program**. *See page 1-9 to change the user mode for your camera.*

Adjusting Exposure

Your camera normally adjusts exposure automatically. However, you may want to increase the exposure setting if you want to lighten your picture or if you're taking pictures of an object against a bright background (where your subject may be underexposed), such as sand or snow on a sunny day.

Similarly, you may want to decrease it if you want to darken the picture, or if you're taking pictures against a dark background (where your subject may be overexposed).

With the PhotoPC 3000Z, you can select automatic exposure settings, or you can fine-tune the exposure manually by setting the shutter speed and aperture setting.

Changing the Automatic Exposure Value

The Exposure Value (EV) is a combination of aperture, shutter speed, and flash settings that will adjust the camera's automatic exposure to lighten or darken the image.

NOTE

The flash is not affected by the exposure value setting when it is set to ϟ forced flash or ⊗ flash off, or when you're using an optional external flash.

Follow these steps to select predefined exposure settings:

1. Make sure that the camera is set to Program or Manual user mode. (See page 1-9 for details.)
2. Turn the camera dial to 🗀 or 📷.

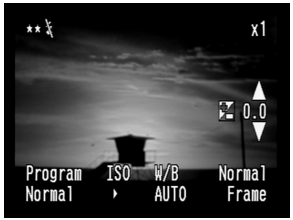
If you are taking pictures using the viewfinder (with the camera dial set to 🗀), press the MENU button to see the Viewfinder menu.

If you are taking pictures with the LCD screen, you see the View menu with a preview of your image.

3. Press the button next to the up arrow to increase the exposure setting, or the button next to the down arrow to decrease it.

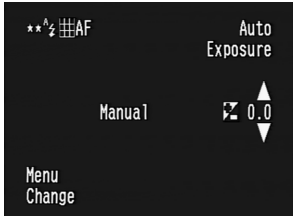
In Program mode, you can select from nine settings in increments of 0.5, from −2.0 to +2.0 EV.

Viewfinder

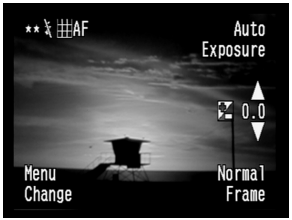


LCD Screen

In Manual mode, make sure the exposure setting is **Auto Exposure**. You can choose from 21 settings in increments of 0.2, from –2.0 to +2.0 EV.

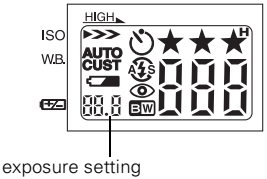


Viewfinder



LCD Screen

The setting appears in the status display panel next to the +/- icon and remains in effect while you take pictures.



Setting Shutter Speed and Aperture

Experienced photographers can set the exposure manually by adjusting the shutter speed and aperture settings.

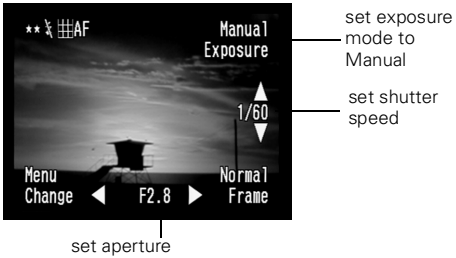
NOTE

To set the aperture setting and let your camera automatically determine the shutter speed, you can use the Aperture Priority settings; see page 5-4.

Follow these steps to adjust the settings:

1. Make sure that the camera is set to Manual user mode. (See page 1-9 for details.)
2. Turn the camera dial to .

3 Press the button next to Auto Exposure to change the exposure mode to Manual.



4 Press the button next to the up arrow to increase shutter speed, or the button next to the down arrow to decrease it.

5 Press the buttons under the left and right arrows to change the aperture setting. (You can choose F2, F2.3, F2.8, F4, F5.6, or F8.)

NOTE

The camera detects the lighting conditions and warns you when exposure settings are outside the ideal range. If you see EV! *on the LCD screen, your image may be under- or overexposed.*

Using Aperture Priority Settings

You may want to select a specific aperture setting for a desired effect. For example, you can set your camera to a higher aperture setting (smaller opening), such as F8, to sharpen your subject and soften the background. The camera automatically selects the shutter speed based on the lighting conditions.

Follow these steps to set the aperture and let the camera automatically determine the shutter speed:

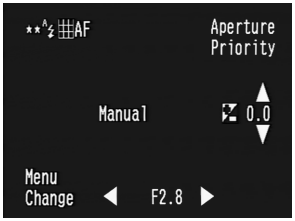
1 Make sure that the camera is set to Manual user mode. (See page 1-9 for details.)

2 Turn the camera dial to 🗀 or 🗀.

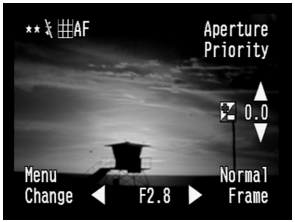
If you are taking pictures using the viewfinder (with the camera dial set to 🗀), press the MENU button.

If you are taking pictures with the LCD screen, you see the View menu.

3 Press the button next to Auto Exposure to change the exposure mode to Aperture Priority.



Viewfinder



LCD Screen

4 Press the buttons under the right and left arrows to change the aperture setting. (You can choose F2, F2.3, F2.8, F4, F5.6 or, F8.)

When you press the shutter button part way down to focus the camera, the camera shows the exposure settings at the top of the LCD screen.

You can change the automatic exposure value to have the camera select a lighter or darker range for your picture with a slower or faster shutter speed. (See page 5-2.)

Adjusting the Sensitivity Setting

With the PhotoPC 3000Z's high sensitivity settings, you can take pictures of fast-moving subjects, or indoor or low light pictures without a flash. You can set the sensitivity from the camera's standard ISO equivalent of 100 to an ISO equivalent of 200 or 400.

The arrow icons below ISO indicate the sensitivity setting:

- The standard setting is equivalent to ISO 100. This is the recommended setting for most pictures.
- The high sensitivity setting is equivalent to ISO 200.
- The super high sensitivity setting is equivalent to ISO 400.

NOTE

Image quality is lower when you use high sensitivity settings.

Follow these steps to adjust the sensitivity setting:

1 Make sure the camera is set to Program or Manual user mode. (See page 1-9 for instructions.)

2 Turn the camera dial to ⌂ or ⌂.

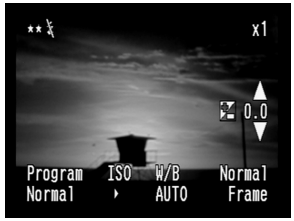
If you are taking pictures using the viewfinder (with the camera dial set to ⌂), press the MENU button.

If you are taking pictures with the LCD screen, you see the View menu.

3 Do one of the following:

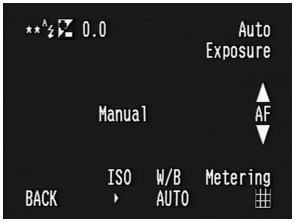
- If the user mode is set to Program, press the button under ISO to change the sensitivity setting.

Viewfinder

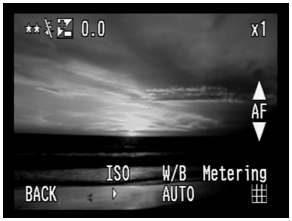


LCD Screen

- If the user mode is set to Manual, press the button under Menu Change. You see the following screen. Press the button under ISO to change the sensitivity setting.



Viewfinder



LCD Screen

Adjusting the White Balance Setting

The PhotoPC 3000Z adjusts white balance automatically to ensure color accuracy. However, you may want to change this setting for special effects or lighting conditions.

You can select the following white balance settings:

AUTO Adjusts the white balance of your pictures automatically. This is the recommended setting for most pictures.

FIX Locks the white balance setting at 5200 °K. This setting gives your pictures a warmer appearance under fluorescent lighting. It's also a good choice for retaining the reds in a sunset or sunrise.

CUST Lets you customize the white balance setting. See page 5-8 to set the custom white balance.

Make sure the camera is turned on, then follow these steps to change the white balance setting:

1 Make sure the camera is set to Program or Manual user mode. (See page 1-9 for instructions.)

2 Turn the camera dial to 🖒 or 📷.

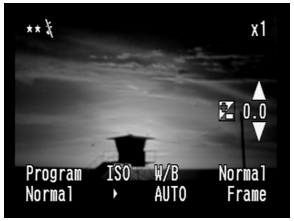
In 🖒 Viewfinder mode, press the MENU button.

If you are taking pictures with the LCD screen, you see the View menu with a preview of your image.

3 Do one of the following:

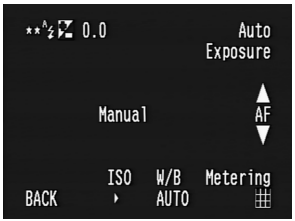
- If the user mode is set to Program, press the button under W/B to select FIX or CUSTOM.

Viewfinder

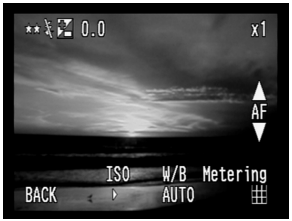


LCD Screen

- If the user mode is set to Manual, press the button under Menu Change. You see the following screen. Press the button under W/B to select FIX or CUSTOM.

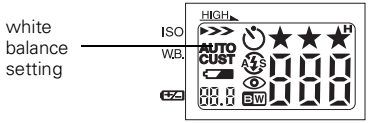


Viewfinder



LCD Screen

The setting, which appears in the status display panel next to the W.B. mark, remains in effect while you take pictures.



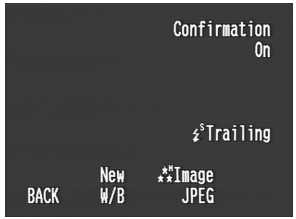
NOTE

When nothing appears next to W.B. *on the display panel, the camera is in the fixed white balance mode.*

Setting the Custom White Balance

Follow these steps to customize the white balance setting:

1. Remove the camera's lens cap and press the POWER button to turn on the camera.
2. Turn the camera dial to SETUP to display the SETUP menu. If necessary, change to Program or Manual user mode.
3. Press the button next to Shot SETUP to go to the Shot SETUP menu.



4. Press the button below New W/B.
5. You see a screen asking you if you want to save a new setting for the custom white balance mode. Press the button next to Yes to save a new white balance setting.

   The camera's lens moves out (if it isn't already out). You see a message with a framed area that the camera's lens uses to set the white balance.
6. Focus the camera on a piece of white paper, or some other object to set the white balance by, and press the shutter button to save the setting.

7 Press the button under BACK to return to the main SETUP menu.

Changing the Metering Method

If you're using Manual mode, your camera lets you choose between matrix metering and spot metering. With matrix metering, the camera automatically samples light from the entire image area and determines the correct exposure. You can use spot metering to choose a point, such as your subject's face, to determine the exposure.

Follow these steps to change the metering system:

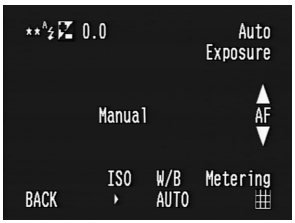
1 Make sure that the camera is set to Manual user mode. (See page 1-9 for details.)

2 Turn the camera dial to 🖵 or 📷.

In 🖵 Viewfinder mode, press the MENU button.

If you are taking pictures with the LCD screen, you see the View menu with a preview of your image.

3 Press the button under Menu Change. You see the following screen. The current metering setting is in the lower right corner.



Viewfinder

LCD Screen

4 Press the button next to Metering to change the setting to spot ◇ or matrix ▦ metering.

When you take a picture with spot metering, make sure the center of the camera's lens is focused on the area on which you want it to read the light.

Fixing Condition Settings

In manual mode, you can save your automatic exposure, white balance, sensitivity, shutter speed, and aperture settings for one photo, and apply them to other photos. This is useful if you want a consistent appearance in a series of shots.

NOTE

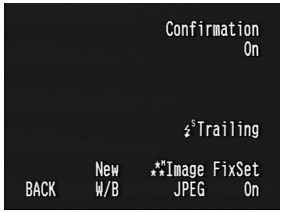
You can't use fixed settings when you are using an optional external flash.

Enabling Fixed Settings

Make sure your camera is set to Manual mode as described on page 1-9. Then follow these steps to enable fixed settings:

1. Turn the dial to SETUP and press the POWER button to turn on the camera. You see the SETUP menu:

2. Press the button next to Shot SETUP. You see the Shot SETUP menu:



3. Press the button next to FixSet to change the setting to On.

4. Press the button under BACK to return to the SETUP menu.

Now you can capture shots with fixed settings. See the section below.

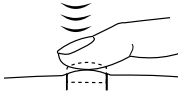
Capturing Shots With Fixed Settings

After you have enabled fixed settings as described in the section above, follow these steps:

1 Turn the camera dial to 📷.

2 Press the button next to the exposure setting to change the exposure mode to Fixed Settings.

3 Center your subject on the screen, then press the shutter button halfway down to lock the auto focus and exposure.



You see a green circle ⭘ on the screen when the camera locks the settings.

4 Press the shutter button the rest of the way down to take the picture.

NOTE

For detailed instructions on taking pictures, see Chapter 2.

Your camera processes the picture and saves its settings. Then you see a settings confirmation screen:

5 Press the button next to Yes to save the settings, or press the button next to No if you don't want to save them (repeat the steps above to fix new settings). You return to the View screen.

After you save the settings, you can do the following before taking more pictures:

- Press the button under FixSet Info to see the settings you have saved. (Press the button under BACK to return to the View screen.)

- Press the button under FixSet Cancel to delete the settings you have saved. (Repeat steps 1 through 5 to fix new settings.)

6. Take any other pictures you want with the fixed settings. The settings are saved until you delete them.

NOTE

If your camera is without battery power for over one hour, you will lose the fixed settings (along with the time and date and other camera settings). To prevent this from occurring, you can connect the camera to an optional AC adapter when you are charging your batteries or keep a spare set of charged batteries. See Appendix B for information.

Exposure and Color Tips

Getting the right lighting in your shots can be complicated. These tips provide suggestions for various conditions.

If you are taking pictures in bright sunlight:

- Reduce the exposure setting.
- Use a fast shutter speed or smaller aperture setting.
- Use an optional filter with the camera's included lens adapter to cut down on excessive light.

If the sky is cloudy:

- Increase the exposure setting.
- Try using fixed white balance.
- Increase the sensitivity.
- If there is complete cloud cover, avoid taking landscape photos. Portraits and closer shots are better choices under cloudy conditions.

If you are capturing a sunset or sunrise:

- Use the fixed white balance setting.
- Adjust exposure settings for different effects.
- Take several shots at different times to capture the changing colors. (To do this automatically, set up interval shooting as described in Chapter 3.)

If you are taking pictures in low light or at night:

- Increase the sensitivity setting.
- Increase the exposure setting.
- Use a wide aperture or slow shutter speed setting to let in more light.
- If your subject is in the shade with a sunny background, try using spot metering and focusing the camera on your subject.
- For photographs taken at night, use the slow synchronized flash mode. The leading setting sets off the flash first, then exposes the subject and takes the picture. In this mode, hold the camera still or use a tripod (see Appendix B). The trailing setting flashes at the end of the exposure, allowing you to capture background motion while freezing your subject. (See Chapter 2 to change the setting to leading or trailing.)

If you are taking photographs under fluorescent lighting:

- Use custom or fixed white balance.
- Avoid taking portraits under fluorescent lights.

If you are taking portrait photos:

- Try using spot metering. Make sure you center your subject when you lock the exposure with the two-step shutter. Then you can move the subject off-center while you are holding the shutter button down. (See Chapter 2 for details on using the two-step shutter.)
- Try using the Portrait setting in Program mode (see Chapter 2).
- Be aware of lighting conditions and how they affect the appearance of your subject. Early morning, late afternoon, and cloudy skies provide more flattering light than direct sunlight.
- If you need to take a portrait under fluorescent or other unflattering indoor light, use the fixed or user-defined white balance.
- Use the red-eye reduction flash mode for portraits. If you are taking portraits in bright light, you still may want to use the flash to correct for the camera's exposure adjustments.

6 Playing Back Photos

NOTE

You can play back all your photos, sounds, and video clips on a TV, projector, or VCR using the video cable that came with your camera. See page 14-10 for details.

The LCD screen lets you play back your pictures one-by-one or in groups of four or nine. You can magnify or delete selected pictures and customize playback features. You can also view your pictures on a television as easily as on the camera's screen. This chapter explains the following:

- Playing back pictures one-by-one or several at a time
- Deleting pictures
- Locking and unlocking pictures
- Adding, playing back, and deleting audio recordings
- Magnifying pictures
- Playing back video clips
- Viewing detailed information about a picture
- Playing pictures as a slide show

Playing Back Pictures One by One

When you set the camera dial to ▶ and press the POWER button, you see the last picture you took on the LCD screen (you'll notice a delay if the picture was taken in Tiff mode):

Press the button next to the right arrow to display the earliest picture taken. Continue pressing the button to view your pictures in order. Press the button next to the left arrow to move backward through your pictures.

NOTE

After a designated period of inactivity, the camera automatically shuts off to conserve battery power. If this happens, press any button on the back of the camera to "wake" the camera. If you are using the AC adapter, the camera shuts off after 15 minutes.

Playing Back Multiple Pictures

You can play back your pictures in Multi mode to view small "thumbnail" versions of either four or nine pictures at once.

Follow these steps to play back multiple pictures:

1. Turn the camera dial to ▶ and press the POWER button. You see the last picture you took on the LCD screen. (You'll notice a delay if the last picture was taken in Tiff mode.)

2. Press the button below Multi. Small thumbnail images of the last four pictures you took appear on the screen, with the currently selected image framed in white.

3. If you want to display nine pictures at once, press the button under 1/9.

4 Press the arrow buttons to move the white selection frame through the images on screen, or hold one of these buttons down to move through the images quickly.

When the frame passes the first or last image of the current group, the previous or next three images are displayed in the group.

5 To switch back to displaying one picture at a time, press the button under 1/1.

Deleting Pictures

The LCD screen provides two different methods for deleting images after you play them back:

- You can delete the currently displayed picture
- You can select multiple pictures for deletion, or "lock" pictures to protect them from deletion

You can also delete images through your software when the camera is connected to your computer (see Chapter 10).

Deleting the Currently Displayed Picture

Set the camera dial to ▶, then follow these steps:

1 Press the buttons next to the right and left arrows to scroll to the image you want to delete. (You'll notice a delay if the picture was taken in Tiff mode.)

NOTE

To make choosing images easier (and faster for Tiff mode images), you can display four or nine images at a time by pressing the button under Multi *once or twice.*

2 Press the button under Delete. A confirmation message appears.

3 Press the button next to Yes to delete the image, or the button next to No to cancel.

Deleting All Pictures

To delete all the images from your memory card, make sure the camera dial is set to ▶, then follow these steps:

1. Press the button next to Select Image.
2. Press the button next to Delete All to delete all the images in your card. A confirmation message appears.
3. Press the button next to Yes to delete the images, or the button next to No to cancel.
4. Press the button under BACK to return to the main playback menu.

NOTE

If any images are locked, you see a screen like the one shown:

To delete all the photos, press the button next to Yes*. To delete only unlocked photos, press the button next to* No*. Press the button under* Cancel *if you don't want to delete any images. See page 6-5 for instructions on unlocking images.*

Deleting Selected Pictures

You can select two or more images and then delete them all at once. Make sure the camera dial is set to ▶, then follow these steps:

1. Press the button next to Select Image to see the image selection screen:

2 Press the buttons next to the right and left arrows to move the frame to an image you want to delete. Then press the button next to Select to Delete. A Delete icon appears on the image and the word Select to Delete changes to Cancel Delete.

NOTE

If you change your mind, press the button next to Cancel Delete *to deselect the image.*

3 Repeat step 2 to select any additional images.

4 After you've finished selecting images to delete, press the button under BACK to return to the main playback menu and delete them.

A confirmation message appears. Press the button next to Yes to delete the selected images, or the button next to No to cancel.

Locking and Unlocking Pictures

The lock feature allows you to keep your images from being accidentally deleted. You can lock selected images or all the images in the camera. Make sure the camera dial is set to ▶, then follow these steps to lock pictures:

1 Press the button next to Select Image to see the image selection screen:

2 Press the buttons next to the right and left arrows to move the frame to an image you want to lock. Then press the button under Lock.

A lock icon appears in the top left corner of the screen and the word Lock changes to Unlock. Repeat this step to lock any additional images.

3 Press the buttons next to the right and left arrows to move the frame to an image you want to unlock. Then press the button under Unlock.

The lock icon disappears from the top left corner of the screen and the word Unlock changes back to Lock. Repeat this step to unlock any additional images.

Adding Audio Recordings

You can add audio recordings to images stored on your memory card.

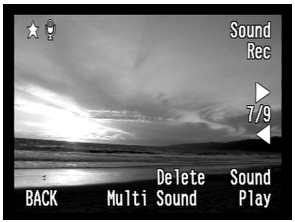
Follow these steps to add a recording to an existing image:

1 Turn the camera dial to ▶ to select playback mode.

2 Press the buttons next to the right and left arrows to move to the photo to which you want to add a recording. (If you're displaying multiple images, you'll see a white frame around the currently selected photo.)

3 Press the button under Menu Change until the screen changes, then press the button under Sound.

You see the Sound menu:



4 Press the button next to Sound Rec. A ten second countdown of the recording time appears on the screen.

NOTE
If an image is locked, you see a warning message. Press the button next to Yes *to record audio. Or, press the button under* No *to return to the sound menu.*

If there's already a recording on the selected photo, a confirmation message appears. To erase the old recording and make a new one, press the button next to Yes*. Or press the button next to* No *to cancel.*

5 Speak clearly into the microphone on the back of the camera. (Press the button under Stop to stop recording at any time.)

A microphone icon appears in the upper left corner of the image to indicate that a recording has been added.

6 Press the button under BACK twice to return to the main playback menu.

Playing Back Audio Recordings

Your camera has a speaker that allows you to play back your recordings. You can also play audio recordings in your camera's slide shows (see page 6-12).

Make sure your camera dial is set to ▶, then follow these steps:

1 Press the buttons next to the right and left arrows to move to the photo for which you want to hear a recording.

2 Press the button under Menu Change.

3 Press the button under Sound. You see the Sound menu, as shown to the right.

4 Press the button next to Sound Play. If you want to stop the playback, press the same button again (next to Sound Stop).

Deleting Audio Recordings

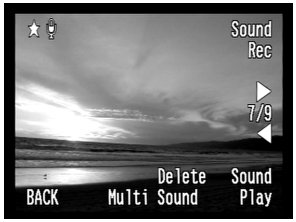
You can also delete audio recordings that you've added to the pictures on your memory card.

Make sure your camera dial is set to ▶, then follow these steps:

1 Use the buttons next to the right and left arrows to move to an image whose attached recording you want to erase. (If you're displaying multiple images, you'll see a white frame around the currently selected photo. You'll see a microphone icon in the upper left corner if the image has a recording attached.)

2 Press the button under Menu Change.

3 Press the button under Sound. You see the following:



4 Press the button under Delete Sound to delete the recording. A message appears asking you to confirm the deletion.

5 Press the button next to Yes to confirm, or next to No to cancel.

6 Press the button under BACK twice to return to the main playback menu.

Magnifying a Picture

You can zoom in to enlarge a portion of your image on the LCD screen and view it in greater detail. Then you can use the camera's buttons to scroll the image.

Make sure the camera dial is set to ▶, and follow these steps:

1 To enlarge the currently displayed image, press the button next to the 🔍 magnifying glass.

A magnified view of the center section of the picture appears. An icon in the top left corner of the screen indicates which area of the image is currently shown.

2 To scroll through different areas of the magnified image, press the buttons next to the up and down arrows to move up or down, or the buttons under the left and right arrows to move left or right. (Hold the button down to scroll quickly in one direction.)

NOTE
When you magnify a panoramic picture, you can only scroll left and right.

3 To exit the screen, press the button under BACK.

Playing Back Video Clips

You can play back video clips that you capture on your PhotoPC 3000Z. You can play them forward or backward, delete them, pause, rewind, fast forward, or move backward or forward, one frame at a time. Follow these steps:

1 Turn the camera dial to ▶. You see the last picture you took on the LCD screen. (If you haven't taken any photos, you see a gray screen with the following message: There is no image.)

2 Press the button under Menu Change.

3 Press the button next to Video Clip. You see the video clip playback screen.

4 Press the buttons next to the left and right arrows to select a video clip.

5 If you want to view the video clip backward, press the button under Fwd (forward). Fwd changes to Rev (reverse).

6 If you want to view multiple thumbnails of your video clips, press the button under Multi. Press it once to view four thumbnails or twice to view nine thumbnails. Press it a third time to view one image at a time again. (You can't select reverse playback if you are viewing multiple thumbnails.)

7 Press the button next to Play. You see your video clip playing in a screen like the following:

8 To slow down the playback, press the button next to Change Speed. Press it again to go back to normal playback speed.

9 Press and hold the button next to the right arrows to fast forward the video (release the button to play).

10 Press and hold the button next to the left arrows to rewind the video (release the button to play).

11 To pause the video, press the button under Pause.

You can do the following while the video is paused:

- Press the button next to Fwd to move the clip forward one frame.
- Press the button under Rev to move the clip backward one frame.
- Press and hold the button next to the right arrows to fast forward (release the button to pause).
- Press and hold the button next to the left arrows to rewind (release the button to pause).

Press the button under Restart to restart the video.

12 Press the button under Quit to stop playing the video clip.

Deleting a Video Clip

Follow these steps to delete a video clip:

1 Turn the camera dial to ▶. You see the last picture you took on the LCD screen. (If you haven't taken any photos, you see a gray screen with the following message: There is no image.)

2 Press the button under Menu Change.

3 Press the button next to Video Clip. You see the video clip playback screen.

4 Press the buttons next to the left and right arrows to select a video clip.

5 Press the button next to Delete to delete the selected video clip.

6 You see a confirmation screen. Press the button next to Yes to delete the video clip. Press the button next to No if you don't want to delete it.

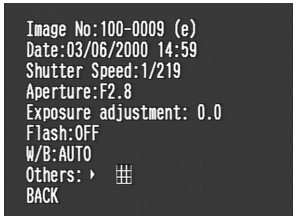
Viewing Picture Information

You can use the LCD screen to view detailed information about individual images, including date and time taken, shutter speed, exposure settings, aperture and white balance settings, and flash settings.

To display image information, follow these steps:

1 Turn the camera dial to ▶, then press the button under Menu Change. You see the following:

2 Press the button next to Info to display information for the currently selected image.



3 Press the button under BACK twice to return to the main playback screen.

Playing Your Pictures as a Slide Show

You can use the LCD screen to play back your pictures in a continuous "slide show." You can even control the slide show's speed and pauses. Follow these steps:

1 Turn the camera dial to ▶. Then press the button under Menu Change.

2 Press the button under SLIDE SHOW. You see the following:

3 Press the button next to 3 Sec to select the slide show speed. You can have the image change automatically every 3 or 5 seconds. (When sound is turned on, the camera displays an image until its entire recording has played.)

If you select Manual, you can move through your images manually, by pressing the Fwd and Rev buttons.

If you select Shuffle, your images play in random order and display for 3 seconds.

NOTE
You can also turn sound on or off, rotate the images, or exclude specified images from your slide show. See the following sections for instructions.

4 Press the button next to Start to begin the slide show.

To pause the slide show, press the button under Pause. Press the same button (under Restart) to restart it.

While the slide show is paused, you can move backward through the slides by pressing the button under Rev. You can move forward by pressing the button next to Fwd. You can also exclude an image from the slide show by pressing the button next to Exclude.

To stop the slide show, press the button under Quit.

NOTE
At the end of the slide show, a black screen with the message "fin!" appears. Then the camera shuts off. Press any button on the back of the camera to turn it back on in playback mode.

Playing Sounds With Your Slide Show

You can turn the audio recordings for your images on or off when you display your slide show. Follow these steps:

1. Turn the camera dial to ▶. Then press the button under Menu Change.
2. Press the button under SLIDE SHOW. You see the following:

3. Press the button next to Sound OFF to change the setting to Sound ON. (If the setting is Sound ON, you can press the same button to turn it to Sound OFF.)

Excluding Pictures From a Slide Show

All pictures saved in your camera's memory card are automatically included in the slide show. To exclude any pictures from the slide show, follow these steps:

1. Turn the camera dial to ▶. Then press the button under Menu Change.
2. Press the button under SLIDE SHOW.
3. Press the button next to Settings. The slide show settings screen appears:

4. Press the buttons next to the right and left arrows to select the picture you want to exclude from the slide show. (If you want, press the button under Multi to display multiple pictures.)

5 Do one of the following:

- Press the button next to Exclude to exclude the selected picture.
- Press the button next to Exclude All to exclude all pictures.

The number that normally appears in the top left corner of each slide show image disappears for excluded photos.

NOTE

If you change your mind, move the white frame to the picture you want to include again and press the button next to Select*. Or press the button next to* Select All *to include all pictures.*

6 When you're finished, press the button under BACK to return to the slide show menu.

NOTE

Once you exclude images, the camera plays images that are included at that time only (new photos are automatically excluded). If you take new photos and want to play them in your slide show, select them or press the button next to Select All *to include all your pictures.*

Rotating Pictures in a Slide Show

You can display pictures in your slide show rotated 90 degrees to the right or left. Follow these steps:

1 Turn the camera dial to ▶ to display the playback menu, then press the button under Menu Change.

2 Press the button under SLIDE SHOW. You see the slide show menu:

3 Press the button next to Settings to display the slide show settings screen:

4 Press the buttons next to the right and left arrows to frame the image you want to rotate.

NOTE
To make it easier to view your picture, press the button under Multi *to display multiple images, then use the arrow buttons to select an image.*

5 To rotate the image 90 degrees to the left, press the button under Rotate once. (Press it two more times to rotate the image back.)

To rotate the image 90 degrees to the right, press the button under Rotate twice. (Press it once more to rotate the image back.)

NOTE
You can't rotate images that have been excluded from the slide show. If you want to include an excluded image, press the button next to Select *and then rotate it.*

6 Repeat steps 4 through 5 to select and rotate more pictures. When you're finished, press the button under BACK to save your changes and return to the slide show menu.

7 Adjusting Camera Settings

Your camera has many options that you can change to configure the camera to work exactly the way you want. This chapter describes the following:

- Setting the auto power off time
- Turning the camera alert sounds on or off
- Adjusting the LCD brightness
- Setting the camera volume
- Setting the time and date
- Setting the language

Setting the Auto Power Off Time

The automatic power off feature saves battery power by automatically putting the camera into sleep mode when it's idle for a designated period of time. You can set the camera to turn off after 10 seconds, 30 seconds, one minute, three minutes, or five minutes.

NOTE

Automatic power off settings are in effect only when you're using batteries to power the camera. When your camera is connected to the AC adapter, it shuts off after 15 minutes.

Follow these steps to change the power off interval:

1 Turn the dial to SETUP. You see the SETUP menu:

2 Press the button below Camera SETUP to go to the Camera SETUP menu. The current power off setting appears in the upper right corner of the screen.

3 Press the button next to the current setting to select a new setting.

Turning the Camera Alert Sounds On or Off

Normally, the camera clicks to let you know when an image has been captured and beeps whenever you press any of its buttons. However, you can turn some or all of the alert sounds off. Follow these steps:

1 Turn the camera dial to SETUP to display the SETUP menu. Then press the button under Camera SETUP. You see the Camera SETUP menu (shown to the left).

2 Press the button under Beep to cycle through these choices:

- **Shutter** The camera clicks when an image is captured.
- **Never** Turns all sounds off.
- **Always** The camera beeps whenever you press a button and clicks when the camera captures images.

Adjusting the LCD Brightness

To adjust the brightness of the LCD screen, follow these steps:

1. Turn the camera dial to SETUP to display the SETUP menu. Then press the button under Camera SETUP. You see the Camera SETUP menu.

2. Press the buttons next to the up and down arrows to adjust the screen brightness.

Setting the Camera Volume

You can change the camera's volume for playing back audio recordings and alert sounds. Follow these steps:

1. Turn the camera dial to SETUP to display the SETUP menu. Then press the button under Camera SETUP. You see the Camera SETUP menu (shown to the left).
2. Press the button next to Volume to change the setting to Hi or Low.
3. Press the button under BACK to return to the SETUP menu.

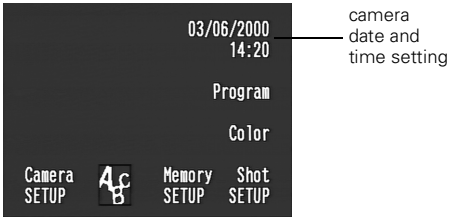
Setting the Time and Date

The camera remembers the time and date settings you made when you formatted your memory card, unless it goes without battery power for more than an hour.

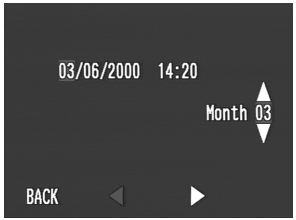
If you need to reset the time and date for any reason, follow these steps:

1 Turn the camera dial to SETUP to display the SETUP menu.

You see the camera's date and time settings in the upper right corner of the screen.



2 Press the button next to the time and date to display the following screen. The month is highlighted in red.



3 Press the buttons next to the up and down arrows to adjust the setting, then press the button under the right arrow to highlight the day.

4 Repeat step 3 for each item you want to change. (To return to a previous setting, press the button under the left arrow.)

5 When you're done, press the button under BACK to save the settings and return to the SETUP menu.

Setting the Language

You can choose from eight languages for information displayed on the LCD screen.

Follow these steps to change the language setting:

1. Turn the camera dial to SETUP to display the SETUP menu.
2. Press the button under the icon to go to the Language/Signal setup menu.

3. If necessary, press the buttons under the arrows to highlight English.
4. Press the button under BACK to save the setting and return to the SETUP menu.

8 Creating DPOF Files for Processing

Your PhotoPC 3000Z includes an internal program, Print Mark, that lets you set up your images for printing in the DPOF format. You can drop off your CompactFlash memory card at a photo finishing lab or insert your card in a DPOF-compatible printer and get the exact printouts you need.

This chapter includes the following sections:

- Introduction to the DPOF standard
- Making the DPOF file
- Confirming and changing DPOF files
- Deleting DPOF files
- Reading error messages

Introduction to the DPOF Standard

The Digital Print Order Format (DPOF) is a digital print standard that lets you create a file containing all the information a photo finishing lab needs to print your photos. You can also use DPOF files with DPOF-compatible photo printers. Simply use Print Mark to select photos to print, specify the number of copies, and store the information in a DPOF file on your camera's CompactFlash card.

NOTE

Some photo finishing labs and digital photo printers don't support the DPOF standard. Contact your local lab or read your printer documentation to see if DPOF printing from CompactFlash memory cards is available.

Making the DPOF File

The Print Mark program on your PhotoPC 3000Z lets you make a Digital Print Order Format file and save it on your camera's CompactFlash memory card in one of two formats:

- Standard layout prints one photo per sheet
- Index layout prints several thumbnail photos per sheet

When you select Standard layout, you can choose to have an index sheet printed with your standard photo sheets, if you want.

Only one DPOF file can be stored on your camera's CompactFlash memory card at a time. However, you can always add or delete images in the file or change the way it is set up before printing.

Follow these steps to make a new DPOF file in Standard or Index layout:

1 Turn on your camera and turn the camera's dial to ↜.

2 Press the button next to PrintMark. The Print Mark program's main menu appears on the screen:

3 Press the button next to New settings.

If you've previously made a DPOF file, you see a message warning that you will lose those settings. Press the button next to Done to delete the old file and set up a new file, or press the button next to Cancel to save the old file and return to the main menu.

4 Press the button next to Standard to select Standard layout for printing one photo per sheet.
Or, press the button next to Index to print several thumbnails of your photos on each sheet.

5 If you are using the Standard layout, go to step 6 to select images.

If you are using the Index layout and you want to print only selected images, press the button next to Index print, then go to step 6. If you want to print all your images in the index, skip to step 12.

6 Press the button next to Select Image. You see your saved images:

7 Press the buttons under the left and right arrows to select a photo. A white frame indicates your selection, and the number at the bottom of the screen shows the picture number.

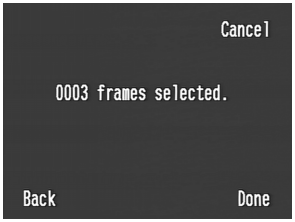
To enlarge a selected picture, press the button next to the magnifying glass. Press the button under Back to return to the selection screen.

NOTE:
The Print Mark program displays up to 1000 pictures. Even if more pictures are stored in your memory card, the program displays only the first 1000.

8 Press the buttons next to the up and down arrows to specify how many sheets (0 to 99) of each selected photo you want to print. When you select one or more sheets for a photo, a red check mark appears over the image.

9 Repeat steps 7 and 8 to set the number of sheets for each image you want to print. Once you have finished selecting photos, press the button under Back.

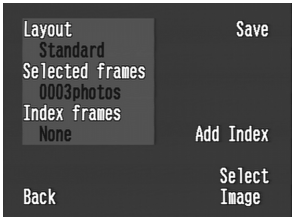
You see a screen confirming the number of original photo frames you have selected to print:



10 If you want to change your selections, press the button under Back.

To quit Print Mark and keep your previous file settings, press the button next to Cancel.

To save your selections, press the button next to Done. You see a screen like the following:



11 If you want to add an index print to a Standard layout file, press the button next to Add Index. Then press the button next to Index print to select None, Selected (the images you have selected for printing), or All.

If you are creating an Index layout file, go to step 12.

12 Press the buttons under the left and right arrows to select the number of copies (up to 99) for your index print. Then, if you are creating an index for a Standard layout file, press the button under Back.

13 Press the button next to Save.

14 At the Confirmation screen, check your settings and press the button under Save to save your DPOF file.

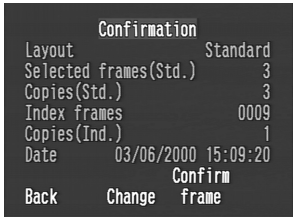
15 Press the button under Exit to quit the Print Mark program.

Confirming and Changing the DPOF File

Follow these steps to confirm or change a file:

1. Turn the camera's dial to ↝.
2. Press the button next to PrintMark. The Print Mark program's main menu appears on the screen:

3. Press the button next to Confirm. You see the confirmation screen.



   - To check the frame selections, press the button under Confirm frame.
   - To change the settings, press the button under Change and follow steps 6 through 15 under "Making the DPOF File."

4. Press the button under Back to return to the Print Mark main screen.

Deleting the DPOF File

Follow these steps to delete a DPOF file:

1. Turn the camera's dial to ↝.
2. Press the button next to PrintMark. The main menu appears:

3. Press the button next to Delete. You see a confirmation message.
4. Press the button next to Done to delete the DPOF file. To keep the file and return to the main menu, press the button next to Cancel.
5. Press the button next to Exit to close the Print Mark menu.

Reading Error Messages

If you see an error message on the camera's LCD screen, check the following table to respond to the message.

LCD screen messages

Message	Description
No photos in memory.	This message appears when there are no photos saved on the memory card. Press the button under **Back** to return to the previous screen.
You cannot select any more images.	You have selected the maximum number of photos that the program will allow you to print. Press the button under **Back** to return to the previous screen.
No memory card inserted.	The memory card isn't inserted in the camera, or it isn't fully inserted into its slot. Insert a memory card as described on page 1-13.
Error! Unable to access DPOF file.	This message may appear if the memory card is removed while using the Print Mark program. (Never remove a memory card during any operation, otherwise you may be unable to use the photos in the card.) Turn off the camera and re-insert the memory card.
Batteries are low. Use AC adapter.	Battery power is almost out. Press the button under **Back** to return to the previous screen. If you have the optional AC adapter, connect it to continue. Otherwise, replace the batteries with batteries that have been fully charged.

LCD screen messages (Continued)

Message	Description
You will lose the last print settings. Are you sure?	There is already a DPOF file saved on the memory card. If you create a new file, you overwrite the saved print settings. Press the button next to **Done** to create a new file, or press the button next to **Cancel** to save the settings.
DPOF file already exists.	This message appears if the Print Mark program tries to read a DPOF file made by a different camera. Delete the file or create a new file. Press the button next to **Delete and make new settings** to create a new file, or press the button under **Back** to save the file from the other camera.
Unable to save DPOF file. Not enough memory available on card.	The memory card doesn't have enough space to save a DPOF file. Press any button to return to the main selection menu. To create a DPOF file, delete any unnecessary photos and try again.

Using Your Camera With Your Computer or Video Device

This section includes information about using your EPSON PhotoPC 3000Z camera and software to load your photos onto your computer and work with them. It also explains how to to use your camera with your computer, print out your photos, and connect your camera to a television, VCR, or other device. The following chapters are included in this section:

9 Installing the Software and Connecting

10 Getting Photos Into Your Computer

11 Getting Your Photos Into Documents

12 Printing Your Photos

13 Operating the Camera From Your Computer

14 Presenting Your Photos

For troubleshooting, maintenance, and reference information (including specifications), see the next section, “Troubleshooing and Reference.”

9 Installing Software and Connecting

Before you can download pictures and video clips to your computer's hard drive, you need to install the PhotoPC 3000Z software and connect the camera to your computer.

This chapter includes the following information:

- Installing your software
- Connecting the camera

Installing Your Software

PhotoPC 3000Z comes with everything you need to transfer your pictures, video clips, and sounds from the camera to your computer, and then organize, enhance, and share them. You can also upload pictures, sounds, and presentation screens to the camera.

The CD-ROM has these Windows and Macintosh applications:

- Sierra Imaging Image Expert (with the QuickTime Player and Adobe Acrobat Reader) lets you transfer, organize, and view your pictures, sounds, and video clips. You can also use it to edit pictures and sounds.
- EPSON Photo!3 is a standalone application for transferring, exporting, and uploading files. It also includes EPSON Auto Downloader for quick and easy file transfers and the EPSON Photo!3 TWAIN program for importing files directly into TWAIN-compliant applications.

- EPSON File Converter lets you convert files (including presentation slides) into a file format that you can upload into your camera.
- EPSON Photo! Print2 gives you an easy way to print your pictures in the exact layout you want.

Installing for Windows

You can install the software on your Windows 98, Windows 95, Windows NT® 4.0, or Windows 2000 system. (See page C-6 for minimum system requirements.)

NOTE

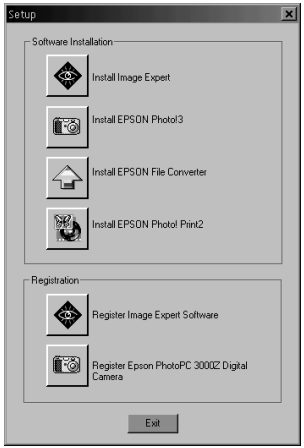
- *If you are asked to restart your computer after any installations, you can cancel and wait to restart until you have installed all the PhotoPC 3000Z applications.*
- *If you are using Windows 2000 or Windows NT and you see an error message that says that you must be logged on with administrative privileges (or a similar message) or you are unable to install the software, contact your system administrator for assistance.*

Follow these steps:

1. Insert the PhotoPC 3000Z CD-ROM in your computer's CD-ROM or DVD drive. The install program starts automatically.

   If it doesn't start automatically, double-click **My Computer**. Then double-click your CD-ROM icon.

2. When you see the following setup screen, click the **Install Image Expert** button.



3 Follow the instructions on the screen to install Image Expert.

NOTE

Make sure you check Install the Adobe Acrobat Reader *if you don't already have it on your system. You use this program to read your electronic* Image Expert User's Guide.

4 If you checked Install the Adobe Acrobat Reader, Image Expert starts the Adobe Acrobat Reader installation. Follow the steps on the screen.

5 Next, Image Expert starts the QuickTime Player installation. Follow the steps on the screen. When you see a screen asking you for a registration number, leave the space blank and click Next.

After installation is complete, you return to the Setup screen.

6 Click the Install EPSON Photo!3 button. Follow the instructions on the screen to install EPSON Photo!3.

7 When you return to the Setup screen, click the Install EPSON File Converter button. Follow the instructions on the screen to install EPSON File Converter.

8 When you return to the Setup screen, click the Install EPSON Photo! Print2 button. Follow the instructions on the screen to install EPSON Photo! Print2.

9 When installation is complete, click the Register Image Expert Software button and follow the steps on the screen to fill out and send or print the registration form. When you are finished, you return to the Setup screen.

10 Click the Register EPSON PhotoPC 3000Z Digital Camera button and follow the instructions on the screen to register your camera.

11 When you are finished installing your software and registering, click Exit.

12 Restart your computer.

Installing on a Macintosh

You can install all the software on your PowerPC,™ Power Macintosh,® iMac,™ iBook,™ or PowerBook® computer. (See page C-6 for minimum system requirements.)

NOTE

- *If your iMac is running OS 8.1, you'll need to upgrade your operating system to OS 8.5.1, or later, before installing your camera software. To find out which operating system your iMac is running, select* About This Computer *in the Apple menu.*
- *If you are asked to restart your computer after any installations, you can quit and wait to restart until you have installed all the PhotoPC 3000Z applications.*

Follow these steps:

1. Insert the CD-ROM in your computer's CD-ROM or DVD drive.
2. If necessary, double-click the PhotoPC 3000Z CD-ROM icon to open it.
3. Open the EPSON Photo!3 folder.
4. Double-click the Photo!3 Installer – Part 1 icon and follow the instructions on the screen.
5. Open the EPSON File Converter folder.
6. Double-click the EPSON File Converter Install icon and follow the instructions on the screen.
7. Open the EPSON Photo! Print2 folder.
8. Double-click the Photo! Print2 Installer (A) icon. Then click OK to install Photo! Print2.
9. Open the Adobe Acrobat folder.
10. Double-click the Reader Installer icon and follow the instructions on the screen.
11. Double-click the Install Image Expert icon. Click Continue and follow the instructions on the screen.
12. Click OK to install QuickTime and follow the instructions on the screen. When you see a screen asking for a registration number, leave that space blank and click Continue.
13. Restart your computer.

14 From the PhotoPC 3000Z CD-ROM window, open the EPSON Camera Registration folder.

15 Double-click the PhotoPC 3000Z Registration icon.

16 Click Register and follow the steps on the screen to register your camera.

Reading Your Image Expert User's Guide

Image Expert includes an electronic manual, the Image Expert User's Guide, that you can view on your computer or print out.

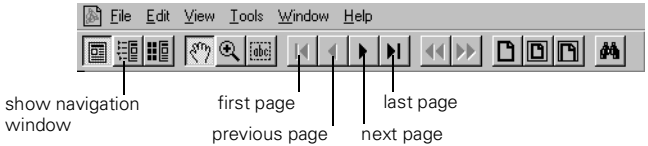
You read the manual using Adobe Acrobat Reader, which you installed with Image Expert.

If you didn't install Acrobat Reader, follow steps 1 through 5 and 11 through 12 under "Installing for Windows," on page 9-2, or steps 1 through 2 and 9 through 10 under "Installing on a Macintosh," on page 9-4 making sure to select Acrobat Reader for installation.

To read the manual in Windows, click Start, point to Programs, Image Expert, then click Image Expert 1.8 User's Guide.

To read the manual in Macintosh, double-click the Image Expert User's Guide icon on the PhotoPC 3000Z CD-ROM. You can also copy the manual to your hard drive.

When you open a manual in Acrobat Reader, you'll see a toolbar like this:



With Acrobat Reader, you have several ways to navigate through text:

- Use the navigation window on the left side of the screen to move quickly to the topic of your choice.
- Use the arrow buttons in the toolbar or the vertical scroll bar on the right side of the document to move through a manual. (The box to the left of the scroll bar displays the current page number.)
- Click links, which are usually underlined or displayed in a different color, to jump to a specific section.

For more information, see your Acrobat Reader online guide.

Connecting the Camera

This section describes how to connect the camera to a Windows PC using the PC serial cable, a Macintosh using the Macintosh serial cable, and to a USB-compatible PC or Macintosh using the USB cable.

Note the following before you start:

- You can conserve battery life by using the optional AC adapter when you connect the camera to your computer. See page B-2 for instructions.
- When you connect the camera, make sure your system is not exposed to sources of electromagnetic interference, such as stereo speakers or the base units of cordless telephones.

Connecting to a Windows PC

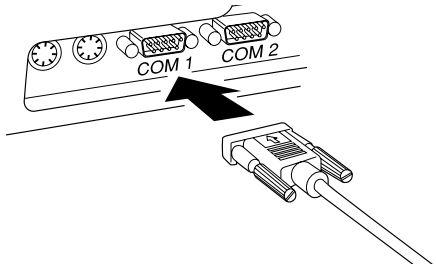
Follow these steps:

1. Make sure the camera and your computer are off.
2. Locate the PC serial cable that came with the camera.
3. Locate a serial port on the back of your computer. You may have two serial ports labeled COM1 and COM2, or the ports may be labeled with icons. If you have two serial ports available, use COM1 (port 1).

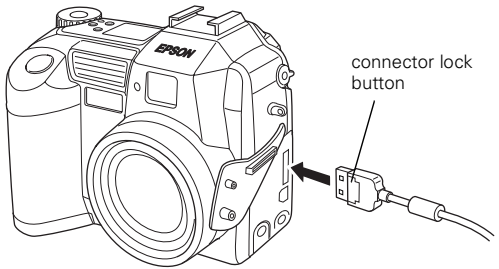
NOTE

If you have a 25-pin serial port, you can use a 9- to 25-pin adapter.

4. Line up the serial connector on the cable with one of the serial ports on your computer, and insert the connector. Then tighten the screws.



5 Open the connector cover on the side of the camera. Carefully insert the connector on the other end of the cable into the camera's serial interface port.



NOTE

To disconnect the cable from the camera, squeeze and hold the connector lock button on the side of the connector while you pull the cable out.

6 Turn on the camera and turn the camera dial to ↝, then turn on your computer system.

NOTE

If you have problems connecting to the COM port you have selected, check your computer's COM port configuration and try again. If your computer has a high-speed serial board, you may be able to transfer your pictures at the rate of 230.4KB per second. If your camera software doesn't set this speed automatically, you can set it manually. See your Windows help system and your computer's documentation for instructions.

Connecting to a Macintosh

Follow these steps:

1 Make sure the camera and your computer are off.

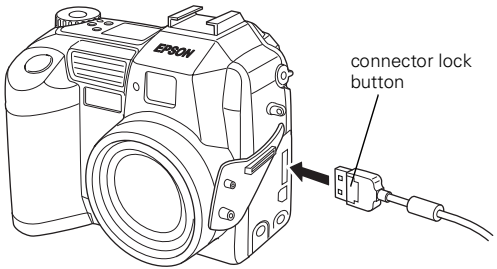
2 Locate the Macintosh serial cable that came with the camera.

3 Locate the modem port or printer port on the back of your Macintosh. You can use either port to connect the camera.

NOTE

If you're sharing a serial port that you use for another device, make sure AppleTalk® is turned off. Your Macintosh may not recognize the camera if AppleTalk is on. If you have problems connecting to the printer port, try connecting to the modem port instead.

4 Open the connector cover on the side of the camera. Carefully insert the connector on the other end of the cable into the camera's serial interface port.



NOTE

To disconnect the cable from the camera, squeeze and hold the connector lock button on the side of the connector while you pull the cable out.

5 Turn on the camera and turn the camera dial to ↝, then turn on your Macintosh system.

On a PowerPC or PowerMac G3, you may be able to transfer your pictures at the rate of 230.4KB per second. If your camera software doesn't set this speed automatically, you can set it manually. See your Macintosh documentation for instructions.

Connecting the Camera with the USB Cable

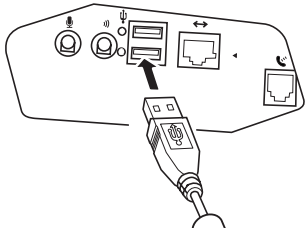
You can connect the camera to your USB-enabled Windows 98, Windows 2000, or Macintosh system using the USB cable that came with your camera.

NOTE

- *If you're using Windows 98 or Windows 2000 and you see a New Hardware screen, follow the instructions below.*
- *If your iMac is running OS 8.1, you'll need to upgrade your operating system to OS 8.5.1, or later, before connecting to your camera using the USB cable.*

Follow these steps:

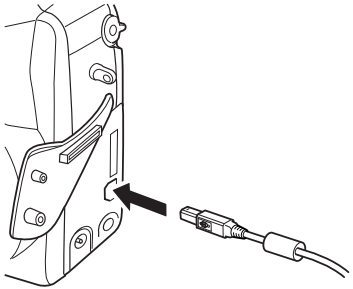
1. Locate the USB cable that came with the camera.
2. Plug the connector on the USB cable into the USB port on your computer, or into a port on a USB hub.



NOTE

Although you can use a USB hub, it's recommended that you connect the camera directly to the computer's USB port.

3. Open the connector cover on the side of the camera. Then insert the connector on the other end of the USB cable into the camera's USB interface port.



4. Turn on your computer, then turn on the camera and turn the camera dial to ↝.

Installing Your Windows USB Driver

If you're connecting to a Windows 98 or Windows 2000 system with a USB port, complete the steps starting on page 9-2 to install your software. The first time you connect the camera to your computer with your USB cable, you'll see the Add New Hardware Wizard (Windows 98) or the Found New Hardware Wizard (Windows 2000).

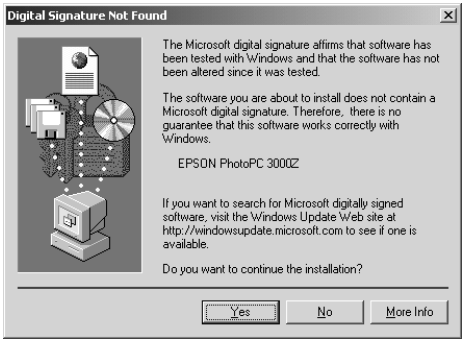
NOTE

- *You may need your Windows 98 system disk for this installation.*
- *Contact your system administrator if you see an error message or you aren't able to install the EPSON PhotoPC 3000Z drivers on your Windows 2000 system.*

Follow these steps to install the driver for your camera:

1. Insert the PhotoPC 3000Z CD-ROM in your computer's CD-ROM or DVD drive.
2. At the first screen in the New Hardware Wizard, click **Next**.
3. Select **Search for the best driver for your device** (Windows 98) or **Search for a suitable driver for your device** (Windows 2000). Then click **Next**.
4. Select **Specify a location** and browse to your CD-ROM or DVD drive. (Click **Next** to browse in Windows 2000.)
5. Select the **Win98E** folder. Click **OK**.
6. On the following screen, click **Next**. The wizard locates your camera's driver.
7. Click **Next** on the installation screen to install the driver.

   When you see the following screen in Windows 2000, click **Yes** to continue the installation:



8. When installation is complete, click **Finish**.

NOTE

When your camera is connected to the computer with USB, it can automatically open applications using USB events. See page 10-14 for more information.

10 Getting Photos Into Your Computer

When you're finished taking pictures, you can connect the camera to your computer and transfer your photos, sound recordings, and video clips. Then you can use the files on your Web site, in presentations, or in just about anything you create on your computer. This chapter describes the following:

- Transferring photos, sound files, and video clips
- Configuring camera events

NOTE

If your computer has a Type II PCMCIA card slot, you can transfer your pictures by copying them directly from your memory card with an optional adapter. See page B-7 for instructions.

Transferring Photos, Sound Files, and Video Clips

The PhotoPC 3000Z provides several ways to transfer your files from the camera's memory card to your computer:

- You can save your files in Image Expert albums for easy viewing and file management. (See page 10-2.)
- You can use EPSON Auto Downloader to automatically download all your files to a folder on the desktop. (See page 10-6.)
- You can import photos into programs that support TWAIN with the EPSON Photo!3 TWAIN software. (See page 10-9.)

- You can use EPSON Photo!3 to transfer files to the computer in different formats for programs that don't recognize JPEG or Tiff files. (See page 10-10.)

NOTE

- *If you have USB, you can save time by using the USB camera events to automatically open designated programs. See page 10-14 for more information.*
- *Video clips and Tiff files take much longer to transfer than JPEG files, especially when the camera is connected to the computer using a serial cable.*

Saving Files in Albums With Image Expert

The simplest method of getting photos into your computer is to use the Image Expert software. This lets you view small thumbnail images of your pictures, and then quickly transfer them to an album (folder) on your hard disk drive.

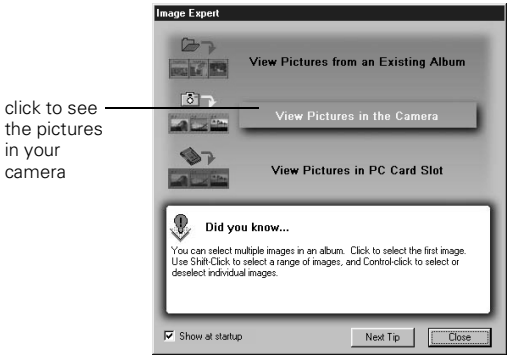
Follow these steps:

1. Make sure the camera is turned on, connected to your computer, and the camera dial is turned to ↝.

2. In Windows, click **Start**, point to **Programs**, point to **Image Expert**, and click **Image Expert - PhotoPC 3000Z**. If you see the Image Expert Quick Tour screen, click **Close**.

   On a Macintosh, open the Image Expert - PhotoPC 3000Z folder and double-click the **Image Expert** icon.

   You see a window like the following:



3. Click **View Pictures in the Camera.** You see a window displaying "filmstrips" of the images on your camera's memory card.

   If you see an error message instead, see page 10-4.

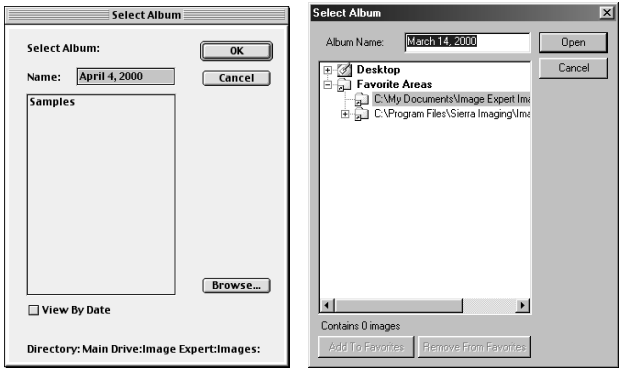
In the top left corner of each image preview, you see an icon that shows the file type. The icon appears on video clip files (QuickTime Movie format) and the icon appears on photos (JPEG or Tiff format). If you recorded audio for a photo, the icon appears.

4 Click the button to transfer all the images to your hard drive. To transfer a single image, select it, then click the button.

NOTE

- *To select more than one image, hold down the* **Ctrl** *key in Windows or the* **Shift** *key on your Macintosh while you click.*
- *To deselect an image or images, click another image.*
- *You must click the button to transfer images. When you view images on your computer, they are not yet transferred.*

You see a Select Album window like the following:

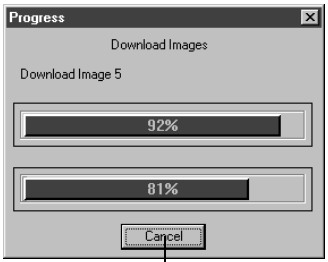


Macintosh Windows

Image Expert automatically creates an album (folder) for your photos with the current date as its name. You can type your own name for the album if you want, or choose an existing album.

5 Click Open (or OK on a Macintosh) to begin transferring your photos. You see a confirmation message asking if you want to download selected images only.

6 Click Selected to download the selected images, or All to download all images. A window like the following shows you the progress of each image:



click if you want to stop transferring images

7 When you're finished, close the camera filmstrip window.

8 You see a confirmation message asking if you want to delete all the photos you transferred from your camera's memory card.

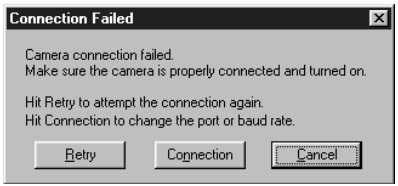
9 Click Yes to erase the image(s), or No to save the images. Click Cancel if you want to keep the camera filmstrip window open.

From your new album, you can double-click a photo or video clip to open it in Image Expert. You can display your images one by one, edit, print, and copy them to diskettes, or place them in your documents and presentations.

See your electronic *Image Expert 1.8 User's Guide* for information about working with images and using albums in Image Expert. (To open this file, see page 9-5.)

What To Do if You See an Error Message

When you click the button to view images in the camera's memory card, you may see a message like the following:



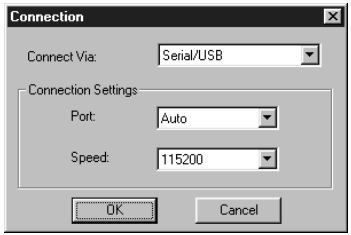
Follow these tips to get your camera connected correctly:

1. Make sure the camera is turned on and has not shut off automatically. If it has, press the POWER button to turn the camera back on.

2. Check the cable and make sure the connections are secure. Make sure the pins inside the connector are not bent.

3. Make sure your batteries have enough power, or your AC adapter is connected.

4. Click Retry. If you see the Connection Failed message again, click Connection. You see the following dialog box:



5. Select another image source from the Connection Via list, if necessary. If you're using a PCMCIA adapter to access images from a PC card slot, select PC Card.

6. Select another port if necessary. In most cases, it's best to leave the Port setting at Auto because Image Expert can detect the camera connection automatically.

   If you have a serial device connected to one port and an internal modem on the other, you can try setting the Port to COM3 or COM4.

   If you have a USB port, select Serial/USB, then remove the USB cable from your computer and reconnect it.

7. Select a slower speed. Image Expert automatically chooses the fastest speed that works with your system, but this may actually be too fast for the configuration of your port. Try setting the speed to 57600. You may need to experiment to choose the best speed.

8. When you are finished, click OK.

Downloading Files Automatically With Auto Downloader

If you want to quickly download all your images into a folder on your desktop, you can use EPSON Auto Downloader.

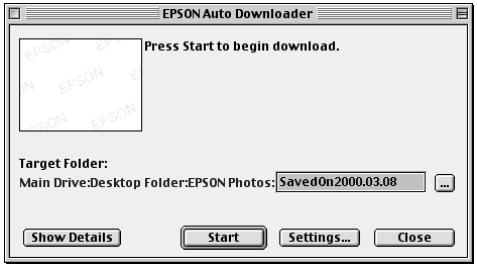
Make sure the camera is turned on, connected to your computer, and the camera dial is turned to . Then, follow these steps:

1 In Windows, click **Start**, point to **Programs**, **EPSON Photo!3**, then click **EPSON Auto Downloader**.

On a Macintosh, double-click the **EPSON Auto Downloader** icon in the EPSON Photo!3 folder on your hard drive.

On a USB system, press the camera's shutter button.

You see the EPSON Auto Downloader screen:



From the Auto Downloader screen, you can do the following:

- To see detailed information about Auto Downloader settings, click the **Show Details** button.
- To change Auto Downloader settings, click the **Settings** button and make any desired changes. (See the next section for details.)
- To select a different folder, click the ... button. (By default, Auto Downloader automatically creates a new folder named for the current date within the EPSON Photos folder on the desktop.)

2 Click the Start button to begin transferring all your files. Auto Downloader shows a preview of the current file and file information as it's downloading. (If an error message appears, see page 10-13.)

To stop transferring files before Auto Downloader is finished, click Stop. The files that have already transferred are saved in the folder.

3 When you are done transferring files, you see a message asking if you want to delete the files you have transferred. Click Yes to delete the files from your camera's memory card, or click No to keep the files on your card.

Setting Up Auto Downloader

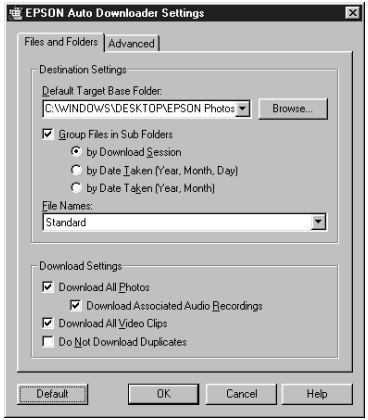
Follow these steps to change the Auto Downloader settings:

1 In Windows, click Start, point to Programs, EPSON Photo!3, then click EPSON Auto Downloader Settings.

On a Macintosh, double-click the EPSON Auto Downloader Settings icon in the EPSON Photo!3 folder on your hard drive.

On a USB system, press the camera's ⏲ timer button.

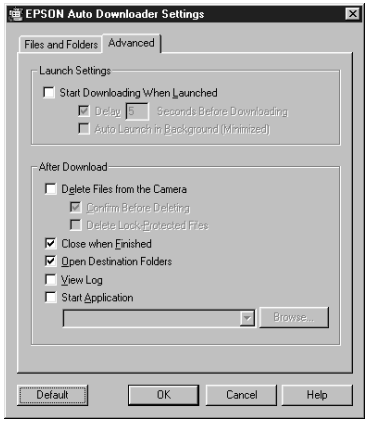
You see the EPSON Auto Downloader Settings screen:



2 From the Files and Folders tab, set up a new default destination and file name type by changing the Destination settings. You can also select whether you want to create a folder for each time you download, for each day, or for each month.

3 To select which types of files you want to download and to prevent Auto Downloader from saving duplicates of files you have already transferred, click the Files and Folders tab and change the Download settings.

4 Click the Advanced tab to change advanced settings.



5 Check Start Downloading When Launched to set the Auto Downloader to start downloading files as soon as it is launched. (With USB, this allows you to perform one-step downloading by simply pressing the shutter button when the camera is connected to your computer.)

You can also set delay settings and automatically minimize Auto Downloader during an automatic download.

6 Select any settings for events that occur after you are finished downloading:

- Click Delete Files from the Camera to automatically delete files from your camera's memory card once you have downloaded them. You can also confirm deletion of files and delete locked files.
- Click Close when Finished to automatically close the program when all the files are transferred.
- To automatically open the folder with your new files, select Open Destination Folders.
- To view a log of the download when you finish transferring images, check View Log.
- To start a program when you're done downloading, check Start Application. Then click Browse to find your application. Highlight the program name and click Open.

7 If you want to reset the Auto Downloader to its original settings, click the Default button.

8 Click OK to save your settings and close the Auto Downloader Settings window. (Click Cancel if you want to keep your previous settings.)

Getting Images Into TWAIN-Compliant Applications

If you use Photoshop® or other TWAIN-compliant applications, you can transfer your still photos directly into your program from the camera. (You can't use TWAIN to open video clips or sounds.) Follow these steps:

1 Start your application.

2 Choose Import, then Select TWAIN_32 Source if you're running Windows (or Import, then TWAIN Select if you have a Macintosh) from the File menu.

NOTE

The commands you choose from the File menu differ from one host application to another. With other host applications, you might choose Acquire *or* Select Source*. Some applications let you download only one photo at a time.*

3 For your TWAIN source, choose EPSON Photo!3 (Windows), or Photo!3 (Macintosh).

4 For Windows, choose Import, then TWAIN_32 from the File menu. For Macintosh, select Import, then TWAIN_Acquire.

The EPSON Photo!3 screen appears, with thumbnail images of your photos. (If you see the message The Camera Is Not Responding, see page 10-13.)

5 Select the picture you want and click Get Photos to transfer the picture. Or click Select All and then Get Photos to transfer all the pictures.

NOTE
To select more than one image, hold down the Ctrl *key in Windows or the* Shift *key on your Macintosh while you click. To deselect, click another image.*

You can also select a picture and do the following before you transfer it:

- Click View Photo to see a full-size image.
- Click one of the rotation buttons to turn the picture 90 degrees.
- Click Photo Info to see the capture time and date, image resolution, and other information.
- Check PhotoEnhance to automatically improve the picture during transfer. (You can select and enhance all the pictures at once. However, this feature makes the transfer take significantly longer. The optional AC adapter is recommended for this feature.)

6 After transferring, click Erase Photos if you want to remove the picture(s) from your camera.

7 If necessary, click Close to exit the EPSON Photo!3 screen and return to your application. You see the picture or pictures in the work area.

Getting Images That You Can Import

Most methods of transferring images from the camera save your pictures as JPEG or Tiff files. If your word processor or other application doesn't support the JPEG or Tiff format, you have to convert the files one by one in an image editing program. Or you can use the export feature of EPSON Photo!3 to automatically convert the files as you transfer them.

NOTE
You can't export video clips or sounds with EPSON Photo!3.

Follow these steps to export and convert your pictures with EPSON Photo!3:

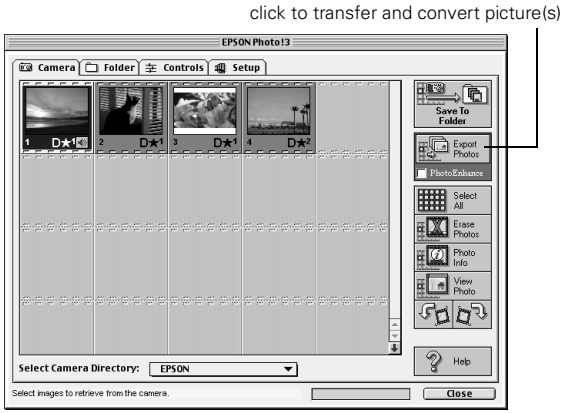
1 Start your EPSON Photo!3 software:

In Windows, click **Start**, point to **Programs**, **EPSON Photo!3**, then click **EPSON Photo!3**.

On a Macintosh, double-click the **EPSON Photo!3** icon in the EPSON Photo!3 folder.

On a USB system, press the camera's ⚡ flash button.

You see a screen like the one below.



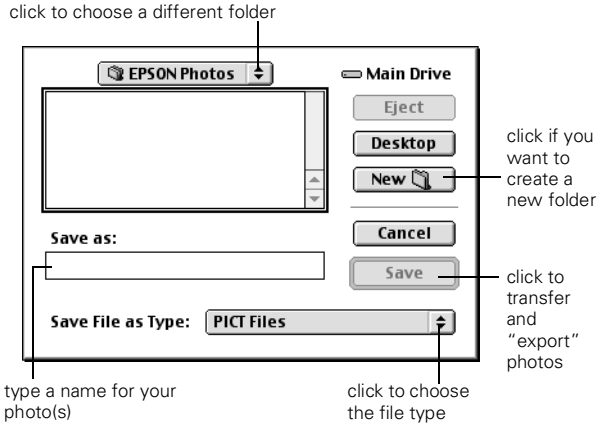
If you see a Setup screen that says **The Camera Is Not Responding**, see page 10-13.

2 Click the picture you want, or click **Select All**.

You can also view, rotate, or enhance the picture(s) or see picture information before you export, as described on page 10-10.

(If you see video clips instead of pictures, change the camera directory from **Video Clips** to **EPSON**.)

3 Click the Export Photos button. The Save As dialog box appears (this box looks slightly different in Windows, but has the same options):



4 Type a file name. If you're exporting more than one image, the software will add numbers to identify each.

5 Select the file type from the drop-down menu. You can choose any of these formats: PICT (Macintosh only), JPEG, Bitmap (BMP), PCX.

6 Click Save. Your pictures are transferred one by one.

NOTE

You cannot open exported photos in EPSON Photo!3. Use Image Expert to view and edit the exported images.

7 Click Erase Photos if you want to delete the pictures in your camera's memory card.

Here are some additional things you can do with EPSON Photo!3:

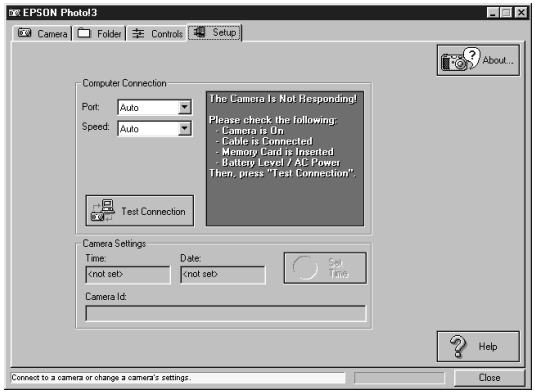
- Select the Controls tab to change camera settings or view a live preview and take pictures from your computer. See Chapter 13 for more information.
- Set the camera's date and time from the Setup tab, or change your computer connection settings. See Chapter 13 for more information.
- Select the Folder tab and click Browse to locate and display pictures you have downloaded. You can then select a picture and click Upload to transfer a picture from your computer to the camera or an optional memory card. See Chapter 14 for more information.

8 Click **Close** to exit EPSON Photo!3.

You can now insert your exported pictures in documents and other projects. For instructions, see page 11-2.

What To Do If the Camera Is Not Responding

When you try to acquire pictures from the camera or start the EPSON Photo!3 application, you may see a screen like the following:



From EPSON Auto Downloader, you may see a screen like the following:

Follow these steps to fix your camera connection:

1 Check the cable and make sure the connections are secure. Make sure the pins inside the connector are not bent.

2 Make sure your batteries have enough power, or your AC adapter is connected.

3 Click **Test Connection**. If you see the same screen, continue with step 5.

4 Select another port if necessary. In most cases, it's best to leave the Port setting at Auto because EPSON Photo!3 and EPSON Auto Downloader can detect the camera connection automatically.

If you have a serial device connected to one port and an internal modem on the other, you can try COM3 or COM4.

If you're using a USB port, try selecting USB, then remove the USB cable from your computer and reconnect it.

5 Select a slower speed. EPSON Photo!3 and EPSON Auto Downloader automatically choose the fastest speed that works with your system. This may actually be too fast for the configuration of your port. Try setting the speed to 57600. You may need to experiment to choose the best speed.

6 Click Test Connection again. If you still don't see your pictures, see Appendix A for more troubleshooting tips.

Configuring Camera Events

You can use camera events when you are connecting your camera to your computer with USB. You can automatically launch an application, such as EPSON Auto Downloader, when you connect the camera and press one of its buttons. You can customize which buttons launch which programs in the Camera Event Monitor on your Macintosh or the Camera Events Control Panel in Windows 98 or Windows 2000.

Your camera events are already configured with the following default event settings:

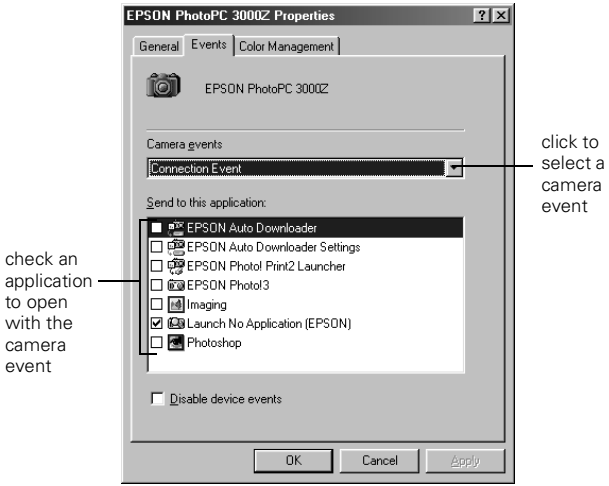
- The shutter button launches EPSON Auto Downloader.
- The ⏲ timer button opens the EPSON Auto Downloader Settings window.
- The ϟ flash button launches EPSON Photo!3.
- The ★ image quality button starts the EPSON Photo! Print2 Launcher.
- Connecting the camera doesn't launch anything by default, but can be set to launch an application.

Configuring Camera Events in Windows

Follow these steps to configure camera events for specific applications in Windows 98 and Windows 2000:

1. Click **Start**, point to **Settings**, then click **Control Panel**.
2. Double-click the **Scanners and Cameras** icon. You see the Scanners and Cameras Properties window.
3. Highlight **EPSON PhotoPC 3000Z** and click **Properties**.
4. Click the **Events** tab. You see the Camera Events window, as shown to the right.
5. Select the event you want to change from the Camera events drop-down menu.
6. You see a list of events with the registered applications that support that event. To change an application, uncheck the current application and check a different one.

Now when you connect your camera or press any of the camera buttons that you have assigned, your selected application opens automatically.



NOTE

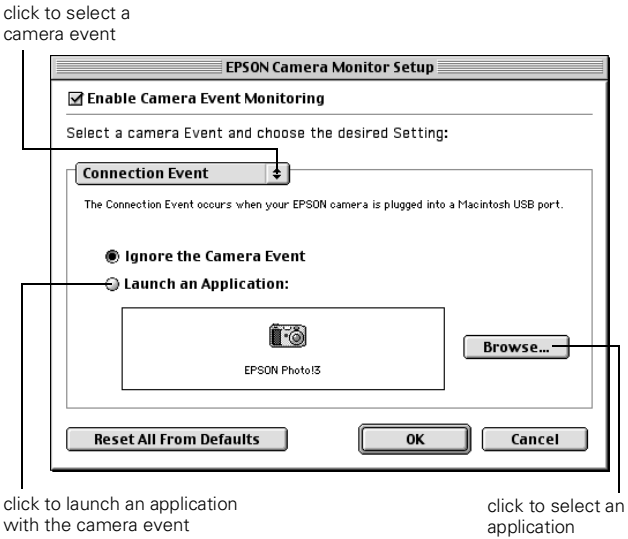
If you have more than one application selected for any camera event, you will see a camera event screen when you press the relevant button on the camera. The screen asks you to choose which application you want to use to open your image. When you see this screen, select an application from the list and click **OK**.

Configuring Camera Events in Macintosh

You can configure camera events on your Macintosh using the Camera Event Monitor.

Follow these steps to change the default event settings:

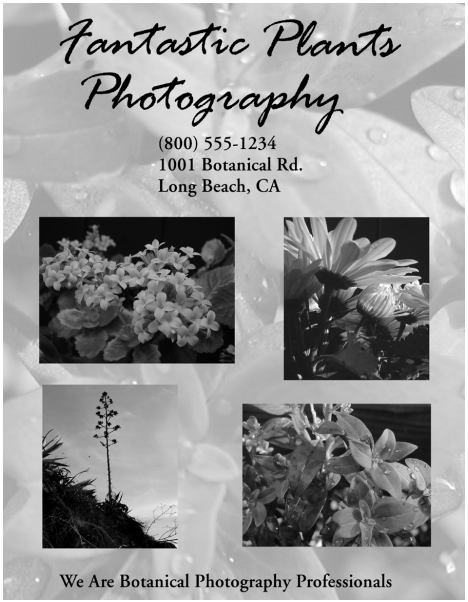
1. In the Apple menu, click **Camera Event Monitor Options**. You see the EPSON Camera Monitor Setup window:



2. Make sure **Enable Camera Event Monitoring** is checked. (Uncheck this option if you don't want to use camera events.)
3. Select an event from the list.
4. If you don't want to launch any application with a camera event, click **Ignore the Camera Event**.
5. To launch an application with an event, click **Launch an Application**.
6. Click **Browse** to find your application. Select your application and click **Open**.
7. Click **OK** to save your settings and close the EPSON Camera Monitor Setup window.

Now when you connect your camera or press any of the camera buttons that you have assigned, your selected application opens automatically.

11 Getting Your Photos Into Documents



PhotoPC 3000Z provides several methods for getting your pictures into presentations, letters, web pages, and other projects. You can drag and drop a picture from an Image Expert album into a document or presentation. You can also import an image into your application, or copy and paste it. With Windows, you can use the Camio™ Viewer to drag a picture directly from the camera and drop it into your project. This chapter describes the following:

- Importing images into documents
- Getting images with copy and paste
- Using drag and drop from an album
- Getting images with the Camio Viewer

Importing Images Into Documents

Once your pictures are transferred and saved on your hard drive, you can import them into your applications. You may need to convert your images if you didn't export them from the camera (as explained in Chapter 10) and your application can't import JPEG or Tiff files. Or you can use the Save As feature of Image Expert to convert image files.

NOTE

Your picture may display poor image quality on the screen after you import it. However, in most cases it will print correctly.

Follow these steps to import a PhotoPC 3000Z picture into your document:

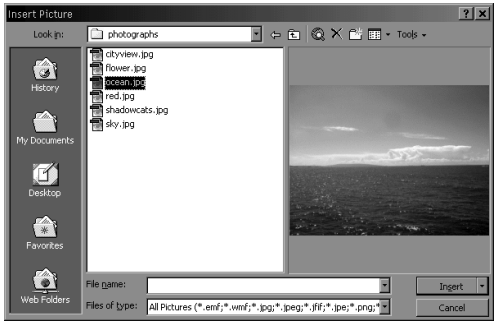
1. Start your application.
2. Open the document where you want to use the picture.
3. Select the point where you want to place your picture.

NOTE

In some applications, you can add a frame around the picture if you want to move it or resize it. In other applications, you create a frame first and then place the picture in it. For instructions, see your application's help system or documentation.

4. Select **Picture** from the **Insert** menu. (In some applications you may need to select a different command, such as **Import Picture**, which is usually in the File menu.)

An Insert Picture dialog box appears (your dialog box may look different, depending on your application):



5 Locate and select the image you want to insert. In some applications you can see a preview of your picture.

6 Click OK (or Insert, Import, or whatever command your application uses) to insert your picture.

The picture appears in your document.

NOTE

- *Before you import pictures with your Web design and management application, resize your images to a smaller size, such as 640 × 480 pixels. Large photos cause pages to load slowly. You might try creating a small, preview image with a link to the full-sized photo. See your application's documentation for instructions. Read your electronic* Image Expert User's Guide *to resize images in Image Expert (see page 9-5).*
- *You may not be able to import video clips into some applications. Not all applications recognize the camera's movie file format. If you upgrade your QuickTime Player to QuickTime Pro, you can use that program to save your file in a format that your application recognizes.Go to* http://www.apple.com/quicktime/ *on the Internet for details.*

Getting Images With Copy and Paste

You can use this method to place a picture in just about any type of document or project. You should already have transferred your picture from the camera to your hard disk.

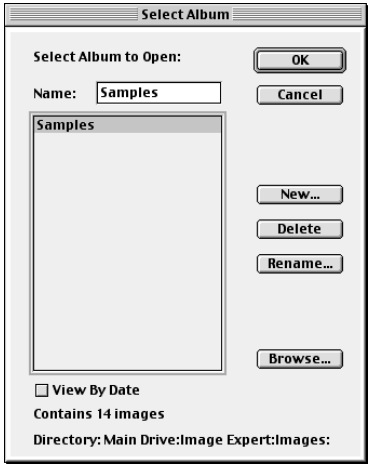
Follow these steps:

1. In Windows, click Start, point to Programs, point to Image Expert, and click Image Expert - PhotoPC 3000Z. If you see the Image Expert Quick Tour screen, click Close.

   On a Macintosh, open the Image Expert - PhotoPC3000Z folder and double-click the Image Expert icon.

2. Click View Pictures from an Existing Album. Or, from the Image Expert screen, click the Open Album button or select Open Album from the File menu.

   You see a dialog box like the following:



3. Locate the album you want and double-click it to open it. When a filmstrip of album images appears in the Image Expert window, click the picture you want to copy.

4. Click the Copy button or select Copy from the Image Expert Edit menu.

5. Start your application.

6 Open the document where you want to use the picture.

7 Choose **Paste** (or **Paste Special**) from your application's Edit menu. A copy of the picture appears in your document.

Using Drag and Drop From an Album (Windows Only)

Once you have transferred your photos into albums, you can easily drag and drop them into documents or other projects.

NOTE

Dragging and dropping an image into a document works only with OLE-2.0-compliant applications, such as Microsoft Word,® PowerPoint,® WordPerfect,® or Lotus SmartSuite.® Depending on how well your application supports OLE 2.0, your images may not look as good when you drag and drop them as when you import them.

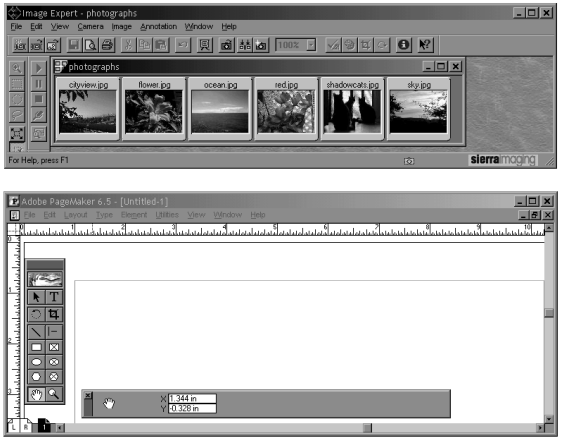
Follow these steps:

1 Start Image Expert as described on page 11-4.

2 Click **View Pictures from an Existing Album**, or click the Open Album button from the Image Expert screen.

3 Locate the album you want and double-click it to open it.

4 Start your word processor or other application and open the document where you want to use the picture. You should have both the Image Expert album and the document displayed on your screen, as shown:



5 Click the image you want.

6 While holding down the mouse button, drag the image to the location where you want it in your document.

7 Release the mouse button. The picture appears in your project or document.

If you want to edit or modify the picture, just double-click it on the Image Expert window to bring up the Image Expert menus and toolbar.

Getting Images With the Camio Viewer (Windows)

The Camio Viewer, a component of Image Expert, is a quick and easy way to get pictures from the camera. You can transfer all images to your computer, or just display the pictures in the camera. Then you can drag a picture directly into a presentation or document.

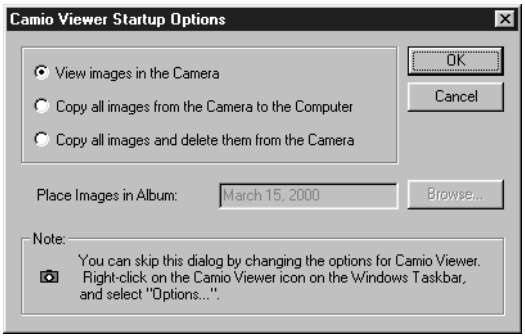
NOTE

Dragging and dropping an image with the Camio Viewer works only with OLE-2.0-compliant applications running in Windows.

First you need to connect the camera to your computer as described in Chapter 9. Then follow these steps:

1 Double-click the camera icon on the right end of your Windows taskbar.

You see the Camio Viewer Startup Options dialog box:



2 Choose one of the following options:

- View images in the Camera
  Displays a filmstrip of your pictures. You can then select an image to drag and drop into a document or presentation. (The image is embedded in your document, and is not available as a separate file.)
- Copy all images from the Camera to the Computer
  Transfers your pictures to an album (folder) on your hard drive. You can then select an image to drag and drop.
- Copy all images and delete them from the Camera
  Transfers your pictures to an album (folder) on your hard drive and deletes them from the camera. You can then select an image to drag and drop.

3 Continue with the steps in one of the following sections, depending on the option you chose in step 2. (If you see an error message, see page A-9 for possible solutions.)

Dragging and Dropping a Picture Into a Document

Follow these steps if you chose View images in the Camera:

1 Click OK. Your pictures appear in a strip of thumbnail images:

2 Open the application and document where you want to use the picture.

3 Click the picture you want to use. Without releasing the mouse button, drag the picture to your document. When your pointer is over the location where you want the picture to appear, release the mouse button. The picture is downloaded to your document from the camera.

If you want to edit or modify the picture, just double-click it in the Camio Viewer filmstrip to bring up the Image Expert menus and toolbar. For more information about the Camio Viewer, choose Quick Tour from the Image Expert Help menu.

NOTE
When you drag and drop with the Camio Viewer, your picture is not saved as a separate image file on your hard drive. You have to transfer your image first if you want it to be available as a separate image file.

Transferring Images Before Placing Them

Follow these steps if you chose Copy all images from the Camera to the Computer or Copy all images and delete them from the Camera:

1 Click OK to copy your pictures to an album named with the current date. Or, type a new name for the album and click OK. Your pictures are transferred one by one. They appear in a strip of thumbnail images, as shown on the previous page.

2 Follow steps 2 and 3 in the previous section to drag and drop a picture into a document or other project.

12 Printing Your Photos

PhotoPC 3000Z provides Photo! Print2 so you can quickly download and print your images. You can use Photo! Print2 to print an index of all the pictures in your camera. You can also print several copies of your photos with different layouts and print settings.

This chapter includes the following information:

- Opening photos in the camera's memory card
- Opening photos saved on the computer
- Printing photos

Opening Photos in the Camera's Memory Card

You can use the EPSON Photo! Print2 Launcher to open the photos from your camera's memory card for printing without saving them on your computer.

CAUTION

When you use Photo! Print2 Launcher to open your files in Photo! Print2, your files are not permanently stored on the computer. Before you delete photos from the camera's memory card, make sure to transfer them as described in Chapter 10.

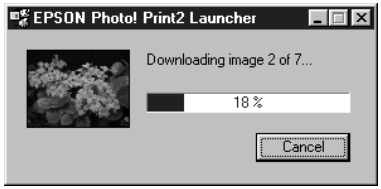
Follow these steps to open your photos in Photo! Print2 with the Photo! Print2 Launcher:

1. Connect the camera to your computer, turn the camera dial to ↝ and turn on the camera by pressing the POWER button.
2. In Windows, click Start, point to Programs, EPSON Photo!3, then click EPSON Photo! Print2 Launcher.

On a Macintosh, double-click the EPSON Photo! Print2 Launcher icon in the EPSON Photo!3 folder.

For USB systems, press the ★ image quality button on your camera.

You see the Photo! Print2 Launcher window.



The Launcher shows previews of your photos as it transfers the images to Photo! Print2.

NOTE

If you see an error message, check for possible solutions on page A-9.

When the Launcher is finished downloading, you see the images in the Photo! Print2 Index window:

To print the photos you have just opened in Photo! Print2, See “Printing Photos” on page 12-4.

Opening Photos Saved on the Computer

With Photo! Print2, you can print out photos that you have downloaded to a folder on your computer. You can print an index of the photos in that folder, or you can select photos and a layout for printing.

1. In Windows, click Start, point to Programs, EPSON Photo! Print2, then click EPSON Photo! Print2.

   On a Macintosh, double-click the EPSON Photo! Print2 icon in the EPSON Photo! Print2 folder.

2. Click Start. Then click Browse for Folder.

3 Select your folder and click OK. Your images open in the Photo! Print2 Index window:

Follow the steps under "Printing Photos," below, to print the photos you have just opened in Photo! Print2.

Printing Photos

After opening your photos in the Photo! Print2 Index window, as described in the sections above, follow these steps to print them:

1 To print an index of all your photos, click Yes. Click the button with the correct paper size. Make sure the correct printer is selected and click OK. Your printer prints the index sheets.

To skip the index, click No.

2 In the next window, click Select All if you want to print one copy of each of your photos. Then go to step 6.

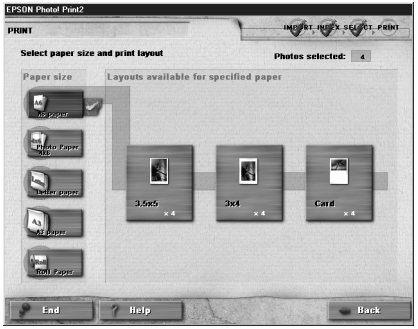
Or, if you want to select which photos and how many of each to print, click Specify Number of Prints and go to step 3.

3 You see the Select photos to print window. Click a photo to select the number of prints. The selected photo opens in a window like the following:

4 Click the up arrow to increase or the down arrow to decrease the number of copies for that photo. You see a green circle and the number of copies on each selected image.

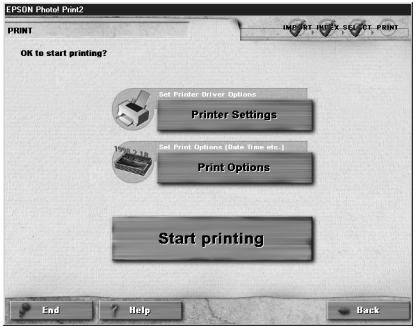
5 When you are finished selecting photos, click Finish Selection.

You see the paper size and layout window:



6 Select the size of paper that is loaded in your printer. Then click the button for your print layout. (You can print up to eight photos per page on some paper sizes.)

You see the print confirmation window:



7 Click Printer Settings to adjust your printer's settings (including the media type and size).

From the Print Setup screen, select your printer from the list and click Properties. Make your changes, then click OK. Click OK to return to the printing menu.

8 Click Print Options to set up trimming, date printing, cutting guides, and other print option settings. When you're finished, click Finish Setting.

9 Click Start Printing to print your photos.

TIP:

Here are image size guidelines to follow when printing photos:

- *Print images captured at 640 × 480 pixels as small prints (4 × 6 inches, or smaller).*
- *Print images captured at 2048 × 1536 pixels as larger prints (8 × 10 or 11 × 14 inches).*
- *Print images captured at 2544 × 1904 pixels as the largest prints (12 × 17 inches).*
- *Larger images still look good when printed at smaller sizes.*

13 Operating the Camera From Your Computer

When the camera is connected to your computer, you can take pictures with a live preview on your computer screen to help you frame each shot. You can also set the camera's clock and adjust a number of other settings from your computer.

This chapter covers the following:

- Taking pictures from your computer with Image Expert
- Taking pictures with EPSON Photo!3
- Adjusting camera settings from your computer

NOTE

You can use either Image Expert or EPSON Photo!3 to take pictures from your computer, adjust camera settings, and transfer images. PhotoPC 3000Z allows you to choose the application that best meets your needs and preferences.

Taking Pictures From Your Computer With Image Expert

When you connect the camera and take pictures from your computer, you see a live preview of each shot before you capture it. You can control camera settings from your computer, and even set the shutter speed.

NOTE

If you have the optional AC adapter, you can save on batteries by using it when you connect the camera to your computer. The AC adapter should be available where you bought your PhotoPC 3000Z, or you can order it from EPSON Accessories. See page B-2 for more information.

Follow these steps to take pictures from your computer:

1. Connect the camera to your computer as described in Chapter 9.

2. Position the camera facing the subject. Using a tripod will give you the most control when setting up your shots. See page B-4 for instructions.

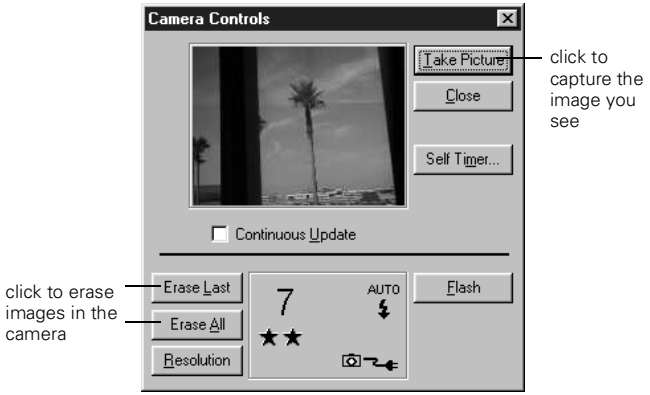
3. Turn on your computer, press the POWER button to turn on the camera, then turn the camera dial to .

4. In Windows, click Start, point to Programs, point to Image Expert, and click Image Expert - PhotoPC 3000Z. If you see the Image Expert Quick Tour screen, click Close.

   On a Macintosh, open the Image Expert - PhotoPC 3000Z folder and double-click the Image Expert icon.

5. Click the Camera Controls button or choose Controls from the Camera menu.

You see a dialog box like the following:



NOTE

If you see an error message, check for possible solutions on page A-9.

6. Click Continuous Update to activate the live preview feature. The image you see is updated every 8 to 10 seconds, depending on your connection speed. You may need to move the camera or your subject until you see the image you want to capture.

You can click the Flash and Resolution buttons on the screen to adjust these settings just as you would by using the buttons on the camera. For more information about the flash and resolution (image quality) settings, see Chapter 2.

NOTE

When the camera is connected to your computer, you can't use any of the control buttons or the shutter button on the camera. You can operate these features only through your computer.

7 When your shot is ready, click Take Picture. The image is captured and processed.

8 Click Close when you're finished taking pictures from your computer.

NOTE

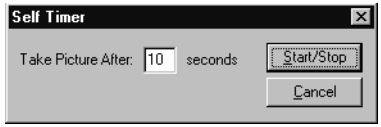
The live preview feature quickly drains your batteries. Make sure you turn it off as soon as you're finished, or use the optional AC adapter.

Using the Self Timer

You can use this feature to have your computer take a picture automatically, after a delay period that you can set. This allows you to take self-portraits and other specialized shots.

Follow these steps:

1 Click Self Timer. You see the following dialog box:



2 Enter a number for the delay period you want to use. You can set up to a 120-second delay.

3 Click Start/Stop to start the countdown and take the picture. The red timer light on the camera remains on for the delay period you entered. Then the light flashes rapidly for 2 seconds and the shutter is released.

The camera clicks and processes your picture.

Taking Pictures With EPSON Photo!3

You can use your EPSON Photo!3 application to take pictures from your computer.

1 Connect the camera to your computer as described in Chapter 9 and position the camera facing the subject.

NOTE
Using a tripod will give you more control when setting up your shots. (See page B-4 for instructions on using a tripod.)

2 Turn on both your camera and your computer. Make sure the camera dial is set to ↜.

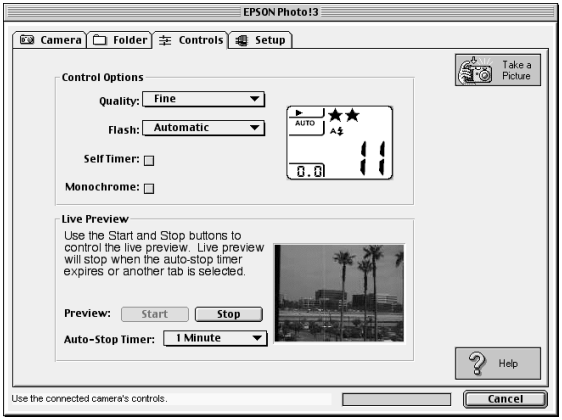
3 Start your EPSON Photo!3 software:

In Windows, click **Start**, point to **Programs**, **EPSON Photo!3**, then click **EPSON Photo!3**.

On a Macintosh, double-click the **EPSON Photo!3** icon in the EPSON Photo!3 folder.

On a USB system, press the camera's ⚡ flash button.

4 Click the **Controls** tab. You see a dialog box like the following:



NOTE
If you see an error message, check for possible solutions on page A-9.

5 Click **Start** to display the live preview.

You can use the Quality, Flash, Self Timer, and Monochrome controls on the screen to adjust these settings just as you would by using the buttons or LCD menus on the camera.

6 When your shot is ready, click Take a Picture. The image is captured and processed.

7 Click Close when you're finished taking pictures from your computer.

The Auto-Stop Timer shuts off the live preview after one minute to save battery power. You can set the timer from 30 seconds to 5 minutes.

NOTE

If you have an external flash unit attached and have changed the flash setting to Ext Flash*, you can't change the flash mode. To change the setting back so you can use the camera's built-in flash, see page B-5.*

Adjusting Camera Settings From Your Computer

You can use either Image Expert or EPSON Photo!3 to change the following camera settings:

- Time
- Date
- Camera Description (ID)
- Connection Port
- Connection Speed

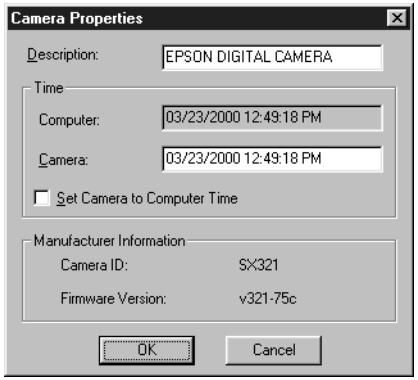
Changing Settings With Image Expert

You can change settings in Image Expert while you're viewing pictures in the camera. Follow these steps:

1 Connect the camera to your computer as described in Chapter 9.

2 Turn the camera dial to ↝, then turn on your camera and your computer system.

3 Start Image Expert, then select **Properties** from the **Camera** menu. The Camera Properties menu appears:



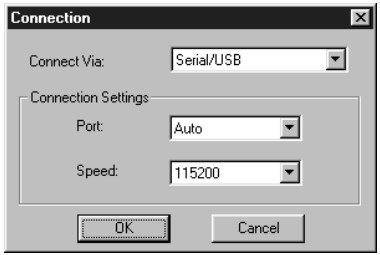
NOTE

If you see an error message, check for possible solutions on page A-9.

- Enter a new **Description** of the camera to change the default. This might be useful if you have more than one camera and you want to record its description in your picture data.
- Type in the **Camera Time** box to change the time and date. Or, click **Set Camera to Computer Time** to automatically synchronize your camera to your computer.

4 Click **OK** to save your settings and exit the Camera Properties dialog box.

5 If you want to adjust your port settings, select **Connection** from the **Camera** menu. You see the Connection dialog box:



- Select another port if you want to change your connection. In most cases, it's best to leave the **Port** setting at **Auto** because Image Expert can detect the camera connection automatically.

- If necessary, select a new source. The standard selection is **Serial/USB**. If you're using a PCMCIA adapter to access a PC card slot, select **PC Card** in the **Connect Via** drop-down list. (**FlashPath** is not implemented on the PhotoPC 3000Z.)
- Select a different communication speed. Image Expert automatically chooses the fastest speed that works with your system. This may actually be too fast for the configuration of your port. You may need to experiment to choose the best speed. (See your Windows documentation or help system to change the port speed for your computer.)

6 Click **OK** to save your settings and exit the Connection dialog box.

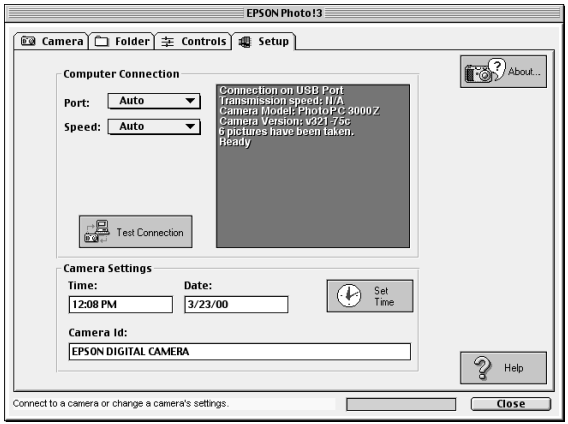
Changing Settings With EPSON Photo!3

You can also change settings in EPSON Photo!3 while you're viewing pictures in the camera. Follow these steps:

1 Connect the camera to your computer as described in Chapter 9.

2 Turn the camera dial to ↝, then turn on your camera and your computer system.

3 Start EPSON Photo!3, then click the **Setup** tab to display the following dialog box:



NOTE

If you see an error message, check for possible solutions on page A-9.

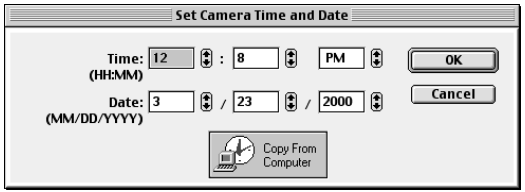
4 Change any of the following Computer Connection settings:

- Select another port if you want to change your connection. In most cases, it's best to leave the Port setting at Auto because EPSON Photo!3 can detect the camera connection automatically.
- Select a different communication speed. EPSON Photo!3 automatically chooses the fastest speed that works with your system. This may actually be too fast for the configuration of your port. You may need to experiment to choose the best speed.

5 Click Test Connection to make sure your new settings work with your system.

6 Click the Set Time button to change the camera's time and date settings.

You see a dialog box like the following:



Enter new values for the settings, or click Copy from Computer to have your camera automatically synchronized to your computer. Click OK to return to the Setup dialog box.

7 Enter a new Camera ID if you want to change the default. This might be useful if you have more than one camera and you want to be able to have its ID recorded in your picture data.

14 Presenting Your Photos

You can connect your camera to a multimedia projector or television and present not just photos and sounds, but also text and graphics, and video clips that you've captured with your camera.

The EPSON File Converter lets you transfer still images, screens, and sounds from your computer to your camera's memory card. Then you can play your files on your television or show them as a presentation on your projector without printing overhead transparencies or slides, and without a laptop computer.

This chapter explains the following:

- Uploading images to the camera
- Converting presentations
- Connecting the camera to a video device

Uploading Images to the Camera

The EPSON File Converter software allows you to convert any image or presentation slide to the EPSON Photo file format and upload it to your CompactFlash memory card. You can upload images in their actual sizes or convert them to 640 × 480 pixels. You upload converted images with EPSON Photo!3.

NOTE

Images that have been cropped will display white strips in the areas that have been cropped out.

Converting Files on a Windows PC

Follow these steps to convert your files:

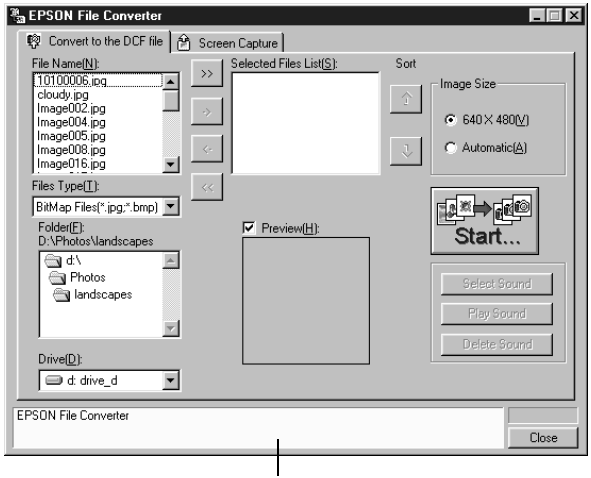
1. Click Start, point to Programs, EPSON File Converter, then click EPSON File Converter. You see a screen like the one on the right.

2. Use the Drive and Folder lists to locate the folder containing the images you want to upload. Double-click the folder to select it.

   The images in the folder are listed in the File Name box.

NOTE

If you want to upload images from a network drive, you may need to map the drive before opening the EPSON File Converter software. See your Windows documentation for more information.



see this box for helpful information

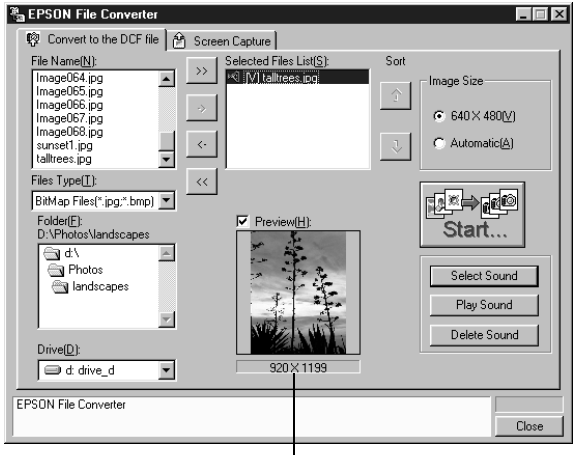
3. Select the format of the images you want to upload from the Files Type list.

4. Select the images you want to upload in the File Name list. Then click the **–>** button. If you want to upload all the images in the list at once, click the **>>** button.

   As you select files, they appear in the Selected Files List in the order they will be uploaded. This determines the sequence in which you can display the images.

- To rearrange the uploading (and display) order, select the image you want to reorder, then click the ↑ or ↓ sort arrow.
- If you want to change your selection, click the **<–** button to remove selected files or click the **<<** button to remove all the files from the Selected Files List.
- If you want to preview a selected image and confirm its size, click the Preview checkbox.

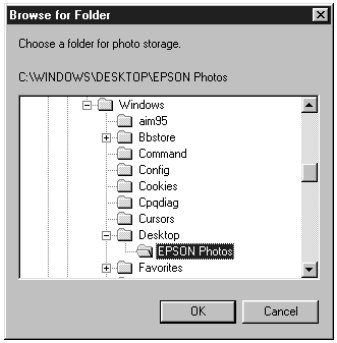
5 For each file in the Selected Files List, choose an image size from the Image Size box. The File Converter resizes your files during the transfer process.



6 If you want to upload an audio recording with a file, highlight the file name in the Selected Files List and click the Select Sound button.

From the Open dialog box, select your sound file and click Open. If you want, click the Play Sound button to play the sound or the Delete Sound button to remove it.

7 Click the Start button. You see a window like the following:



8 Select a folder where you want to save your converted files, then click OK. Your files are converted and saved in the selected folder.

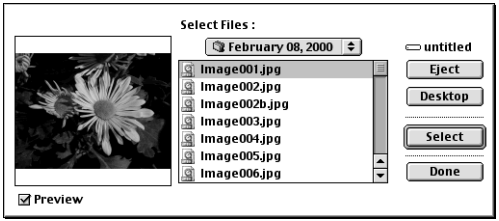
To upload your converted files to the camera, see "Uploading Converted Files" on page 14-6.

Converting Files on a Macintosh

Follow these steps to convert your files:

1 Double-click the EPSON File Converter icon in the EPSON File Converter folder. The EPSON File Converter dialog box opens, as shown on the next page.

2 Click Add. The Select Files dialog box appears.

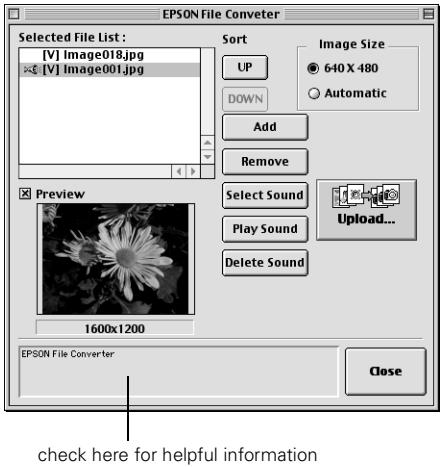


3 Double-click the folder containing the images you want to upload, then select each file you want to upload and click Select.

If you want to preview a selected image and confirm its size, click the Preview checkbox. It takes a few seconds longer to select images with previews displayed.

4 When you finish selecting image files, click Done to close the Select Files dialog box.

The selected images appear in the Selected File List in the order they will be uploaded. This determines the sequence in which you can display the images.



- To rearrange the uploading order, select the image you want to reorder, then click Up or Down.
- To remove files from this list, select the file(s) and click Remove.

5 For each file in the Selected File List, select an image size from the Image Size box. The File Uploader will resize your files during the transfer process.

6 If you want to upload an audio recording with a file, highlight the file name in the Selected Files List and click Select Sound. Find the folder where your sound file is located and select the sound you want to associate with your file. Then click Open. If you want, click Play Sound to play the sound or click Delete Sound to remove it.

7 Click Upload. Select the folder where you want to save your converted files and then click Open. A window opens to show you the progress of the file conversion.

To upload your converted files to the camera, see the next section, "Uploading Converted Files."

Uploading Converted Files

After you have converted your files as described in the sections above, you can upload them to your camera.

NOTE

If your camera's CompactFlash memory card can't hold all the images you'd like to upload, you can purchase a higher density card (up to 192MB). See Appendix B for details.

Before you start, make sure the camera is connected to your computer, the computer and camera are turned on, and the camera dial is turned to ↝. Then follow these steps to upload the files:

1 Start your EPSON Photo!3 software:

In Windows, click **Start**, point to **Programs**, **EPSON Photo!3**, then click **EPSON Photo!3.**

On a Macintosh, double-click the **EPSON Photo!3** icon in the EPSON Photo!3 folder.

On a USB system, press the camera's ⚡ flash button.

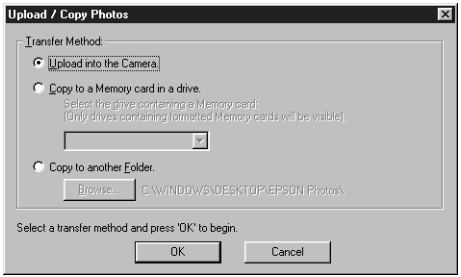
EPSON Photo!3 opens. Click the **Folder** tab to display the images you selected:

NOTE

If you see an error message, check for possible solutions on page A-9.

2 Click **Select All** to select all the images, or select individual images by clicking the thumbnails in the image selection window.

3 Click Upload/Copy. The Upload/Copy Photos dialog box appears:



4 Click Upload into the Camera to upload the images to your camera's memory card, click Copy to a Memory Card in a drive to upload to a memory card installed in your computer's PCMCIA drive, or click Copy to another folder (and select a folder); then click OK.

The images are uploaded to the destination you selected.

Converting Presentations

If you want to upload a presentation or document that is not saved as a standard image file, you can make a "screen capture" of your computer desktop with the file open. This lets you turn any document or presentation into a series of image files that you can convert and upload to your camera's memory card.

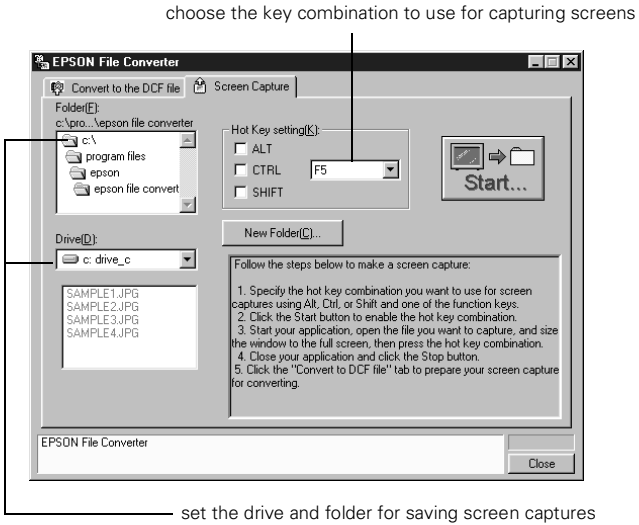
Windows users can make screen captures from within the EPSON File Converter utility; Macintosh users need to use the standard Macintosh screen capture function.

Capturing Windows Screens

Follow these steps:

1 Click Start, point to Programs, EPSON File Converter, then click EPSON File Converter. You see the EPSON File Converter window.

2 Click the Screen Capture tab. The Screen Capture dialog box appears:



3 Use the Drive and Folder lists to select the folder where you want to save the screen capture. To create a new folder for the screen captures, click the New Folder button.

4 Specify the key combination you want to use for screen captures in the Hot Key setting box. Click the ALT, CTRL, or SHIFT checkbox, then select a function key from the hot key list. The default hot key is F5.

5 Click Start to activate the key combination. The key combination remains active only for the current session.

When the key combination is activated, the Start button changes to a Stop button.

To deactivate the hot key combination, press the Stop button.

6 Start your application and open the file to the page or image you want to capture.

NOTE

- *The entire screen is captured, not just the active window. Make sure you maximize your presentation before you capture it. If you set your application to "slide show" mode (or the equivalent) you can capture just the image you want, without menus and other screen elements.*
- *Presentations using large fonts (at least 18 points) work best.*

7 Press the hot key combination you selected. Your screen capture is assigned a file name and saved to the folder that you specified.

You can make as many screen captures as you'd like; simply open each file you want to capture and press your screen capture key combination again.

8 When you're finished, close your application and click the Stop button on the Screen Capture dialog box. The key combination you selected is erased.

To convert your screen captures for uploading, follow the instructions on page 14-2. Then follow the instructions on page 14-6 to upload the screens to the camera.

Capturing Macintosh Screens

EPSON File Converter for the Macintosh does not have a screen capture feature. However, you can make screen captures using your Macintosh system software, then use EPSON File Converter to convert the screen captures so you can upload them to your camera.

The procedure may differ slightly, depending on your Macintosh. See your computer manual for more information.

Follow these steps:

1 Start your application and open the file for the image you want to capture.

2 Press the ⌘, Shift, and 3 keys on your computer keyboard at the same time. Your Macintosh names and saves the screen shot on your hard drive (not in a folder).

You can make as many screen shots as you'd like; simply repeat this step.

NOTE

- *If you're running OS 8.0 or later, you can capture just the active window. Press the* ⌘, Shift, *and* 4 *keys at the same time, then click the window you want to capture (if* Caps Lock *is on), or drag the cursor around that portion of the screen you want to capture.*
- *If you're running OS 7.5x, the entire desktop is captured, not just the active window. Make your document window as large as possible before you capture it. If you set your application to "slide show" mode (or the equivalent), you can capture just the image, without other screen elements.*

3 When you're finished, close your application.

To convert your screen shots for uploading, follow the instructions on page 14-4. Then follow the instructions on page 14-6 to upload the screens to the camera.

Connecting the Camera to a Video Device

You can display your photos, video clips, uploaded images, and sounds on a multimedia projector, television, VCR, or other video output device.

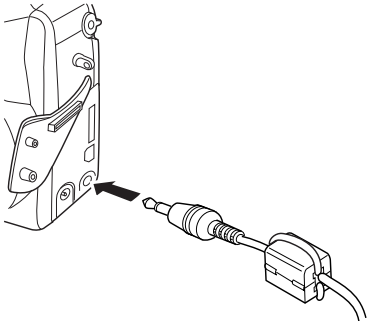
NOTE

The optional AC adapter is highly recommended when connecting to a video device. See page B-2 for instructions and ordering information.

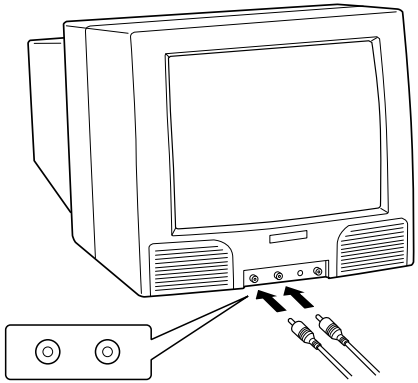
You need the video cable that came with your PhotoPC 3000Z to connect to your video device.

Follow these steps:

1. Make sure your camera and TV (and VCR) or video projector are turned off.
2. Open the camera's connector cover and connect the black end of the video cable to the AV Out port, as shown below:



3. Connect the yellow end of the video cable to the VIDEO IN port and the white end of the cable to the AUDIO IN port on the TV, VCR, or projector.



4. Turn on the TV (and VCR) or video projector and switch to video mode.
5. Turn the camera dial to ▶.

   The last image that you uploaded to the camera is projected. If you are using the optional AC adapter, you can also see the image on the LCD screen.

You can use the camera's slide show feature to play your images and sounds automatically, or play them one at a time using the navigation buttons. You can use all of the camera's other playback features to show your presentation.

NOTE

If you are powering your camera with batteries, the LCD screen is blank when the camera is connected to a video device. The LCD screen remains lit if you use the camera with the optional AC adapter.

6 When you're done playing back pictures, turn your camera off and turn off the TV (and VCR) or video projector. Then disconnect the cables.

TIP

You can videotape your pictures, sounds, and videos to share them without using a computer. After you connect the camera to a VCR, press the Record button on the VCR and play back a video clip (see page 6-9) or use the camera's slide show feature (see page 6-12).

Setting the Broadcast Signal System

If you will be using your camera with a television, you can make sure the camera has the correct broadcast signal setting. Follow these steps:

1 Turn the camera dial to SETUP to display the SETUP menu.

2 Press the button under the icon to go to the Language/Signal setup menu.

3 If necessary, press the button next to TV to change the setting to NTSC (the U.S. broadcasting standard).

4 Press the button under BACK to save the setting and return to the SETUP menu.

Troubleshooting and Reference

This section includes troubleshooting and maintenance instructions for your EPSON PhotoPC 3000Z, optional accessories available for the camera, specifications, and warranty information. This section includes the following appendices:

A Maintenance and Troubleshooting

B Optional Accessories

C Specifications

D Regulatory Information and Warranty

There is an Index following this section of the book.

A Maintenance and Troubleshooting

Your PhotoPC 3000Z camera is easy to take care of, and any problems you may have are easy to solve. This chapter includes the following sections:

- Caring for the camera and battery charger
- Solving camera problems
- Solving connection and software problems
- Solving picture problems
- Where to get help

Caring for the Camera and Battery Charger

Your PhotoPC 3000Z requires only basic care.

Before you perform any maintenance procedures, be sure to read the safety instructions in the Introduction. Then follow these guidelines:

Handling the Camera

- To avoid damaging the optics of the camera, do not expose the lens to direct sunlight for extended periods of time.

NOTE

To further protect the lens from bright sunlight, you can attach an optional UV filter with your camera's lens adapter. See Appendix B for instructions.

- Make sure you replace the lens cap on the camera when you are not using it. Remove the lens cap before turning on the camera.
- Attach the neck strap (see Chapter 1) and use that to carry the camera. Keep the camera in the included case, or in a camera bag to protect it.
- Avoid sudden temperature changes, which can cause moisture to form on the camera and options. Keep the camera and options in a case or bag if you need to move them from a cold environment to a warm one. Allow time for the camera and options to adjust to temperature changes before using them.

Cleaning the Camera and Battery Charger

- Unplug the battery charger before cleaning.
- Use a clean, dry cloth to wipe the camera free of dust.
- Use a damp cloth for cleaning the battery charger.
- Keep the battery charger terminals clean by wiping them with a dry cloth.
- Don't use harsh or abrasive cleaners. Don't use liquid or aerosol cleaners.
- To clean the lens, first blow off any loose dust or dirt. Then breathe on the lens and wipe off all moisture with a soft, lint-free cloth or lens cleaning tissue. To avoid scratching the lens, don't press too hard.
- If necessary, clean the battery contacts with a dry cloth.
- If the LCD screen gets fingerprints or smudges on it, use a soft, damp cloth to lightly wipe the screen.

Storing the Camera

- When you're not using the camera, make sure the camera is turned off and the lens is retracted.
- When the camera is not used for long periods of time, remove the batteries and store them at a low temperature in a dry location. This prevents damage to the camera from battery leaks or corrosion.

Do not store the camera in the following locations:

- Where it will be exposed to direct sunlight, for example, on a car dashboard
- Near sources of bright light or high humidity
- Near heat sources or in a closed car or trunk
- In areas of excessive dirt or dust
- Where it will be exposed to strong vibrations or magnetic fields

Solving Camera Problems

Before you call for help, check this list of problems and possible solutions:

The camera has no power.

- The camera may have shut off automatically. If your camera dial is set to , , or , press the shutter button to turn the power back on. If your camera dial is set to , , or SETUP, press any button on the back of the camera to turn the power on. (You can also turn the camera off and then back on.)
- Check the batteries and make sure they're installed correctly and charged. The included batteries need to be charged before you can use them (see Chapter 1). Recharge or replace the batteries.
- If you are using the AC adapter, make sure it's plugged into a working outlet.

You can't take a picture with the camera.

- The flash may be recharging. Wait until the photo capture light (beside the viewfinder) stops flashing and remains a steady green, and try again.
- Make sure you've installed the CompactFlash memory card in your camera. If it's already installed, you may need to format or eject it (see Chapter 1). Check to see if a message is displayed on the camera's LCD screen.
- The CompactFlash memory card may be full. Check the picture counter on the display panel. Try setting the camera to a lower image quality setting (see Chapter 2). Erase some pictures or video clips (see Chapter 6), or

transfer the pictures or video clips to your computer and then erase them (see Chapter 10). Or replace your memory card with a new one (see Chapter 1).

- The batteries may be low. If you see the low battery icon, recharge or replace the batteries (see Chapter 1) or use the optional AC adapter (see Appendix B).
- The camera may be connected to your computer. When it's connected, you can't use any of the controls on the camera itself. See Chapter 13 for instructions on taking pictures from your computer.

You can't see clearly through the viewfinder.

- Adjust the view with the diopter dial. Set the diopter with the camera dial turned to 🗀 to make the most accurate adjustment.

The camera takes too long to take a picture.

- You may be pressing the shutter all the way down at once. This forces the camera to focus, make exposure adjustments, and capture the image all at once. By pressing the shutter button partially to focus, then the rest of the way to capture the image, your camera can process pictures more quickly (see Chapter 2).
- If you want to quickly take up to 37 pictures in succession, use the continuous shooting mode. See page 3-2 for details.
- If you are taking a picture in Uncompressed Tiff mode, the camera takes longer to process the image. Tiff images create large files and can take approximately 32 seconds to process. If you are trying to capture large, high quality images that you can print, try setting the camera to HyPict mode instead of Tiff mode. See page 2-10 to disable Tiff mode and enable HyPict JPEG mode.

The flash doesn't work.

- Make sure the flash is not set to the flash off setting 🚫.
- Check the batteries and make sure they're installed correctly. Recharge or replace the batteries if necessary.

- If you are using one of the automatic flash modes (automatic, red-eye reduction, slow synchronized), the flash only fires when there is insufficient light. If you want to force the flash to fire, set it to ⚡ forced mode. (See Chapter 2.)
- You can't use the flash in continuous shooting mode or video clip capture mode.
- Check to make sure your camera's flash setting is not set to use an optional external flash if you're trying to use the camera's flash. If you're using an optional external flash, make sure to use the Ext Flash setting in the Shot SETUP menu (see Appendix B).
- If your external flash isn't working, make sure your user mode is set to Manual (see Chapter 1) and you have the correct setting in the Shot SETUP menu. Also, make sure the flash is placed on the camera correctly. (See Appendix B for instructions on attaching and enabling an optional external flash.) Your external flash may also need batteries. Check the documentation that came with your external flash for more information.

Nothing appears on the LCD screen (or the status display panel).

- Check your batteries and make sure they're installed correctly. Recharge or replace the batteries if necessary.
- Make sure you've installed and formatted the CompactFlash memory card.
- The camera may have shut off automatically. If your camera dial is set to 📷, 📷, or 📷, press the shutter button to turn the power back on. If your camera dial is set to ▶, 📈, or SETUP, press any button on the back of the camera to turn the power on. (You can also press the POWER button to turn the camera off and then press it again to turn the camera back on.)
- Make sure the camera is not in 📷 viewfinder mode (if you want to use the LCD screen).
- If the last photo you took was an Uncompressed Tiff mode photo, you will see a blank LCD screen when you turn on the camera in playback mode. Tiff images take as long as 34 seconds to appear on the LCD screen in playback mode.

- The LCD screen turns off automatically when the camera is connected to (and communicating with) a computer or video device.

The lens is still out even though the camera is turned off.

- The camera may have shut off automatically. To retract the lens, press the POWER button to turn the camera back on, then press it again to turn the camera off.
- The batteries may be low. Connect the camera to the optional AC adapter, or replace or recharge the batteries. Then turn the camera on and back off to retract the lens.

The image on the screen is too dark.

- Adjust the brightness of the screen using the Camera SETUP menu. See page 7-3 for instructions.

The menus disappear from the LCD screen.

- The menus disappear when you press the MENU button. Press the MENU button again to make them reappear.

You can't take certain types of pictures or make all the settings you want.

- Some of the camera's settings and features can't be used at the same time. For example, you can't use continuous shooting mode and set the image quality to ★★ (HyPict or Tiff) at the same time.
- To adjust certain settings like white balance, exposure, and sensitivity settings, or to use fixed settings, you need to set your user mode to Program or Manual. See page 1-9 for details.
- Uncompressed Tiff mode images are 9.1MB. You can take only one picture in this mode with your included memory card. For high quality images that take up less memory, try using HyPict mode. See Chapter 2 for details.
- To use an optional external flash, you need to set your user mode to Manual. See page 1-9 for details on changing your user mode and Appendix B to use an external flash.

The "pictures remaining" number on the display panel doesn't decrease after you take a picture.

- Your camera is operating correctly. The total number of pictures you can store depends on your pictures' content. The number doesn't always change, especially when you're using standard image quality. (To confirm that the camera took the picture, you can turn the camera dial to ▶ to display the last picture that was taken.)

The camera's date and time settings need to be reset often.

- When your camera is without charged batteries or a connection to an optional AC adapter for more than one hour, it loses the time, date, and other settings (and returns to the default settings). To make sure you don't lose your settings, connect the camera to an optional AC adapter while you are charging the batteries. Or, purchase a backup set of batteries to use in the camera while the others are recharging.

The camera's LCD screen is displaying the wrong language.

- You can change the language back in the Language/ Signal setup menu. Turn your camera dial to SETUP and press the button under the icon. (See page 7-5 for complete instructions on changing the language setting.)

When you are in video clip capture mode, the time shown is less than 25 seconds.

- The camera's CompactFlash card does not have enough remaining memory to capture a complete video clip. You can still capture a video clip for the amount of time shown. If you need to capture a video clip for the full 25 seconds, erase some existing pictures or video clips (see Chapter 6), or transfer the pictures or video clips to your computer and then erase them (see Chapter 10). Or replace your memory card with a new one (see Chapter 1).

Solving Connection and Software Problems

If you are having trouble connecting your camera to a computer or video device, or installing or using the software, check the suggestions below:

Nothing appears on the television or the sounds don't play when you connect your camera to it.

- Make sure the video and audio cables are connected correctly, as described on page 14-10, and the camera and TV are turned on.
- Make sure your camera dial is set to ▶.
- If your TV has both Video and S-Video modes, make sure it is set to Video mode. See the manual for your television if you need help.
- Check your batteries and make sure they're installed correctly. Recharge or replace the batteries if necessary.
- Make sure your camera is set to the correct broadcast signal system (see page 14-12). Also see your television's documentation for possible solutions.
- Check your playback settings to make sure the sound setting is turned on (see Chapter 6).

You get an error message when you try to transfer your pictures to the computer.

- Make sure the cable is connected correctly as described in Chapter 9.
- Make sure your camera is turned on and the batteries have enough power.
- Check the serial port settings in your Image Expert or EPSON Photo!3 software. You may need to change the Port and Speed serial connection settings to Auto.
- If you're using a Windows system and have trouble connecting to the COM port, check the computer's COM port settings. Make sure the port is properly configured and that the Base I/O port address and the Interrupt Request Number (IRQ) assigned to the port are not in conflict with any other devices.

- Check the port setting in your Windows Control Panel. You may need to set your port to a faster speed, lower the FIFO buffer size (advanced serial port configuration), or adjust the speed in your software. See "Adjusting Camera Settings From Your Computer" on page 13-5 for more information.
- If you're using a Macintosh and the camera is sharing a serial port with another device, turn AppleTalk off.
- If your camera is connected to a USB hub, try connecting the camera directly to your computer.
- Make sure you don't have more than one of the following open at the same time: Image Expert, EPSON Photo!3, EPSON Auto Downloader, EPSON Photo! Print2 Launcher, Camio Viewer, EPSON Photo!3 TWAIN.

You get a "The Camera Is Not Responding" error message (or a similar error message) when you're using your PhotoPC 3000Z software with the camera connected to your computer.

- Make sure the cable is connected correctly as described in Chapter 9. Also make sure your camera is not turned off and the batteries have power.
- Check the serial port settings in your Image Expert or EPSON Photo!3 software. You may need to change the Port and Speed serial connection settings to Auto.
- If you were able to use the camera with the computer previously and then changed or added other settings on your system, you may have a COM port conflict. Try using a different COM port or reconfiguring the COM port settings. (See your Windows documentation for instructions.) If you were not able to use the camera with your computer previously, you may have an inoperable serial cable. Try using another cable.
- If your camera is connected to a USB hub, try connecting the camera directly to your computer.

- Make sure you don't have more than one of the following open at the same time: Image Expert, EPSON Photo!3, EPSON Auto Downloader, EPSON Photo! Print2 Launcher, Camio Viewer, EPSON Photo!3 TWAIN.

You are unable to drag and drop photos into a document.

- If your system has less than 32MB RAM, you may not be able to use drag and drop. Make sure you don't run too many applications at the same time. You may need to add memory to your system or use another method of getting photos into your documents.
- Your application may not support this method of adding pictures.

You are unable to copy and paste or import your photo into a document on your Macintosh.

- Try increasing your virtual memory using the Memory Control Panel. Also increase the memory allocation for your word processor or other application. (Select the application and choose Get Info from the File menu.)
- Try turning off any unnecessary extensions. See your Macintosh documentation for more information.

The pictures transfer to your computer too slowly.

- If you're transferring Tiff files or video clips, you can expect the transfer to take much longer than it does for JPEG files, due to large file sizes. The transfer speed is especially slow when you are using a serial connection.
- If your system has less than 32MB RAM, the transfer speed may be slow. Try using virtual memory. See your computer documentation or system help for more information.
- Check the port setting in your Windows Control Panel. You may need to set your port to a faster speed. See your Windows documentation or help system for more information.
- If you're transferring pictures to an application through EPSON Photo!3 and you use the PhotoEnhance™ feature, the transfer will take longer. Try transferring without PhotoEnhance.

You can't find your video clips (or photos) in EPSON Photo!3.

- Your camera stores photos and video clips on different folders on the camera's memory card. EPSON Photo!3 uses these folders for organizing photos and video clips. From the Select Camera Directory list, choose EPSON to view photos, or select Video Clips to view video clips. If you use your CompactFlash memory card with a device that can create folders, select the folder where you have stored your video clips or photos.

You get a TWAIN error message when you try to transfer images with a TWAIN-compliant program, such as Adobe Photoshop.

- Make sure you select TWAIN_32, not TWAIN.

You are unable to format or use a CompactFlash memory card with your camera.

- Make sure you're using an ATA-compatible CompactFlash memory card (Type I). Other cards may not work with PhotoPC 3000Z. If you need help with a card, call the appropriate manufacturer's number. Some are listed below:
  - Lexar Media, (800) 789-9418
  - SanDisk, (408) 542-0595
  - Delkin Devices, (858) 586-0123
- Make sure you've installed the card correctly. The card's label should be facing the front of the camera, and the arrow(s) on the label should point in.

Your notebook computer's PCMCIA drive can't access a CompactFlash memory card with a PCMCIA adapter.

- If you're using an IBM® ThinkPad,® you may need an updated driver for your PCMCIA port. Contact IBM technical support.

When you upload pictures to a memory card in your computer, your system appears to hang.

- Check the status bar at the bottom of your screen. If it shows that the transfer is complete, your system is operating correctly. You may have to click your mouse to change the hourglass icon to a normal pointer.

When you copy image files from your computer to a CompactFlash memory card in your PCMCIA drive, the camera can't access the images.

- You can't use this method to upload pictures to the camera. You have to use the EPSON File Converter to convert your images and EPSON Photo!3 to upload your images.

You can't install software or USB drivers in Windows 2000 or Windows NT.

- If you see an error message or the software doesn't install correctly, you may not have software installation privileges. Contact your System Administrator.
- In Windows 2000, do not select Block under Control Panel > System > Hardware > Driver Signing, or your driver installation will not be completed. Select Ignore or Warn instead.
- In Windows 2000, if you see a Digital Signature Not Found screen, click Yes to continue with the installation. (See page 9-9 for details.) If you select No, your camera's USB installation won't be completed.

You can't play video clips on your computer.

- Make sure you have QuickTime installed on your computer. You should have installed it when you installed Image Expert. See Chapter 9.

You can't insert video clips into your application.

- Some applications may not recognize the camera's movie file format. If you upgrade your QuickTime Player to QuickTime Pro, you can use that program to save your file in a format that your application recognizes. Go to http://www.apple.com/quicktime/ on the Internet for details.

You can't download video clips, photos, or sounds with Auto Downloader.

- You can select which of these files you download in the Auto Downloader Settings window. Open the Settings window and make sure all the file types you want to transfer are selected. See page 10-7 for detailed instructions on setting up Auto Downloader.

You can't find your photos on the hard drive.

- If you are using the EPSON Photo! Print2 Launcher, your photos aren't stored on your hard drive, only opened temporarily. Download your photos from the camera, as described in Chapter 10.

Image Expert doesn't recognize the camera.

- If you have a version of Image Expert from a different camera, printer, or other product, make sure you install the version of Image Expert included on your PhotoPC 3000Z Software CD-ROM and use it when you are connecting to your camera. The correct version is named Image Expert - PhotoPC 3000Z (version 1.8.7).

Solving Picture Problems

If you're not satisfied with some of the pictures you get from the PhotoPC 3000Z, you may need to adjust some of the camera settings. Read the suggestions below.

Your pictures display poor image quality on the screen or when you print them out.

- PhotoPC 3000Z captures images in 24-bit color (16.7 million colors). Your pictures will not display maximum image quality if your monitor or computer's video controller doesn't support this color depth. You may need to upgrade your system to achieve the best possible image quality.
- If your pictures look better on the screen than when you print them out, you may need to upgrade your printer. An EPSON Stylus® ink jet printer, for example, provides excellent image quality. Also see your printer manual to change your print settings, if necessary.

- If you used drag and drop to insert your pictures, they may appear grainy. Try importing them into your documents instead.

When you preview images on your computer, they look distorted.

- If you are using an STB® Velocity 128 video card and have a screen resolution of 800 × 600 or 640 × 480, you may notice this phenomenon. Slowing down the acceleration on your video card may solve this problem: Click Start, point to Settings, click Control Panel, then double-click System Properties. On the Performance tab, click the Graphics button. Select a slower acceleration and click OK. See your Windows documentation or help system for more information.

The colors in your picture don't look right.

- When you take pictures under certain artificial lighting conditions, the colors may be slightly distorted. You can adjust your camera's white balance setting to correct the colors while you are taking photos (see Chapter 5).
- If you have already taken photos, you can use your Image Expert software to adjust their colors. See your electronic *Image Expert User's Guide* for details. (Instructions for reading the Image Expert manual are on page 9-5.)

Your picture is blurry or out of focus.

- Make sure your subject is within the camera's range. You should be at least 20 inches away to take a picture without the flash, 20 inches to 14 feet away for a wide angle shot (zoomed out) with the flash, and 20 inches to 11 feet away for a telephoto shot (zoomed in) with the flash.
- If you are taking a picture in macro mode, the camera can focus for distances between 8 inches and 20 inches when the camera is zoomed in (telephoto). If you want to take closer pictures (as close as 2.36 inches), make sure the camera is zoomed all the way out (wide angle). See page 4-4.

- When you take macro close-ups, make sure you have adequate lighting. Using a tripod will help you capture sharp pictures.
- Make sure that your subject isn't moving and that you hold the camera steady after you press the shutter button (until the camera status light or photo capture light starts flashing).
- If you want to photograph a moving subject, try increasing the shutter speed. See Chapter 5 for information about how to change the shutter speed.
- Make sure your flash is not set to flash off .
- When you focus on a nearby object, your picture's background may appear blurry. Try changing your focus.

Your picture is too dark (underexposed).

- You may need to use the flash. Make sure the setting is not flash off .
- If you're using the flash, make sure your subject is within the range of 14 feet for wide angle shots or 11 feet for telephoto shots.
- Use Image Expert to adjust the picture's brightness and contrast. See your electronic Image Expert manual. (Instructions for reading the manual are on page 9-5.)
- Try adjusting the camera's exposure or sensitivity settings (use the Manual user mode). See Chapter 5 for details.
- If you're taking pictures in the Manual user mode, look for the EV! warning that appears on your LCD screen when you are taking pictures out of the ideal exposure range. If you have trouble setting both the aperture and shutter speed manually, try adjusting the aperture and letting the camera choose the shutter speed with Aperture Priority mode (see Chapter 5).
- If you're using the macro mode to take a close-up photo, be sure to provide adequate lighting for your subject.

- If you're taking a picture at night and you want to light up the background as well as your subject, use the camera's slow synchronized flash mode.
- If you need more light, attach an optional external flash to the camera's hot shoe (see Appendix B).

Your picture is too light (overexposed).

- If you're using the forced flash setting, it may be too bright. Try setting the flash to the automatic setting.
- If you're facing a bright light source, you may need to shoot your picture from a different angle.
- Use Image Expert to adjust the picture's brightness. See your electronic Image Expert manual. (Instructions for reading the manual are on page 9-5.)
- Set user mode to Program or Manual and adjust the camera's automatic exposure setting (see Chapter 5).
- If you use the flash for macro shots, your pictures may come out too light because the flash is close to the subject. Try using adequate ambient lighting and setting the flash to .

Part of your picture is missing.

- Make sure you're not blocking the lens with your finger, neck strap, clothing, or other object.

A horizontal or vertical red line appears on your picture.

- Red lines are caused by glare. Avoid photographing shiny surfaces that reflect excessive amounts of light into your lens.

The wrong date and/or time are displayed on your pictures.

- When you change the batteries in your camera, you may need to reset the clock. You can use the SETUP menu or set the camera's clock from your computer. See Chapter 7 or Chapter 13 for more information.

Your pictures don't look as good as they used to.

- Your camera's lens may be dirty or dusty. Try cleaning it by following the instructions on page A-2.

The area captured in the photo is different from what you saw in the viewfinder.

- Make sure you look straight through the viewfinder.
- If you're taking a close-up or macro mode picture, turn the camera dial to and use your LCD screen to preview your picture.

Video clips play back sideways.

- Capture your video clips with the camera turned upright. You can't rotate video clips.

Where To Get Help

EPSON provides technical assistance 24 hours a day through the electronic support services and automated telephone services listed in the following table:

NOTE

If you need software help, see "Software Support," on page A-18.

Service	Access
World Wide Web	From the Internet, you can reach EPSON Support at **http://support.epson.com**. At this site, you can download drivers and other files, look at documentation such as product brochures and user manuals, and access troubleshooting information.
EPSON Internet FTP Site	If you have Internet FTP capability, use your Web browser (or other software for FTP downloading) to log onto **ftp.epson.com** with the user name **anonymous** and your e-mail address as the password.
EPSON E-MAIL Technical Support	To receive technical advice through e-mail, go to **http://support.epson.com** and complete the form under the troubleshooting tab, as requested.
Automated Telephone Services	A variety of automated help services are available 24 hours a day, seven days a week. To use these services, you must have a touch tone telephone and call **(800) 922-8911**.

To speak to a technical support representative, dial **(562) 276-4303** (U.S.), or **(905) 709-3839** (Canada), 6 AM to 6 PM, Pacific Time, Monday through Friday. Toll or long distance charges may apply.

Before you call, please have the following information ready:

- Product name (EPSON PhotoPC 3000Z)
- Product serial number (located on the bottom of the camera)
- Proof of purchase (such as a store receipt) and date of purchase
- Computer configuration
- Description of the problem

EPSON Accessories

You can purchase manuals and accessories from EPSON Accessories at **(800) 873-7766** or visit our website at **www.epsonsupplies.com** (U.S. sales only). In Canada, please call **(800) 873-7766** for dealer referral.

Software Support

If you are having problems with a software application included with the camera, you can call one of the following numbers for technical support:

- **(800) 501-8902** for Sierra Imaging Image Expert software questions. Available weekdays 9 AM to 5 PM, Pacific Time. Or email **support@sierraimaging.com**. Worldwide support number is (831) 461-4710.
- **(562) 276-4303** for the EPSON Photo!3 application and TWAIN driver, EPSON Auto Downloader, EPSON File Converter, and EPSON Photo! Print2.

Software Licensing

You can install EPSON Photo!3, EPSON File Converter, EPSON Photo! Print2, and the EPSON Auto Downloader on multiple computer systems. If you want to install Image Expert on multiple computer systems, please contact Sierra Imaging at (800) 501-8902 regarding the licensing fee.

B Optional Accessories

You can use a variety of options with the PhotoPC 3000Z to enhance its capabilities and convenience. This chapter describes how to use your camera with the following options:

- AC adapter
- Tripod
- Optional lenses and filters
- External flash
- PCMCIA adapter
- Image Authentication System software (for verifying that a photo has not been altered)

You can purchase an additional NiMH Battery Pak (with 4 batteries) or replacement NiMH Power Pak (which contains a battery charger and 4 batteries). With a backup set of charged batteries, you'll have plenty of battery power. Additional CompactFlash memory cards are also handy to have to store more pictures.

These options should be available where you bought your PhotoPC 3000Z.

You can order the following options directly from EPSON Accessories at **(800) 873-7766** (U.S. sales only). In Canada, please call **(800) 873-7766** for dealer referral. Or visit our website at www.epsonsupplies.com (U.S. sales only).

Accessory	Product code
EPSON Universal AC Adapter	B867081
NiMH Battery Pak (4 batteries)	B818113
Universal NiMH Power Pak (charger and 4 batteries)	B818172
EPSON Image Authentication System (IAS)	PPC3-IAS

CompactFlash memory cards are available from the various manufacturers like:

- Lexar Media, (800) 789-9418
- SanDisk, (408) 542-0595
- Delkin Devices, (858) 586-0123

Make sure you purchase the correct size card. The PhotoPC 3000Z will accept ATA-compatible Type I CompactFlash cards up to 192MB.

Using the Optional AC Adapter

The universal AC adapter allows you to connect your PhotoPC 3000Z to any standard (110/230 V) outlet. You should use the AC adapter when you are previewing images, transferring images and operating the camera from your computer or video device, or using Print Mark. It is also convenient if you are taking indoor portrait photos.

The adapter powers the camera but does not charge the batteries.

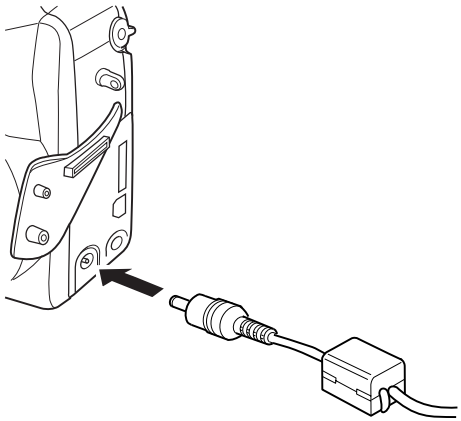
WARNING

- *Use only the AC adapter designed for the PhotoPC 3000Z. Using any other adapter could cause fire, electrical shock, or injury.*
- *Do not use the AC power cable and the adapter for any purpose other than powering your PhotoPC 3000Z.*
- *If the AC plug doesn't fit your outlet, have a proper outlet installed by a qualified electrician.*
- *To avoid radiation danger, do not expose or remove the ferrite core.*

To avoid losing any images or settings, make sure the camera has finished processing and is turned off before you connect or disconnect the AC adapter. Then follow these steps:

1 Open the connector cover on the side of the camera.

2 Plug the adapter cable into the DC port on the camera.



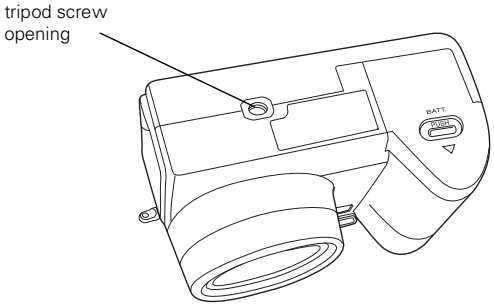
3 Plug the AC adapter into an electrical outlet.

Using a Tripod

Follow these steps to use the camera with any standard tripod:

1. Assemble and set up the tripod according to the manufacturer's instructions. Make sure the tripod is well-balanced on a flat surface.

2. Find the opening for the tripod screw on the bottom of your camera.



   Carefully place the camera on the tripod. Screw the camera on until it is firmly in place.

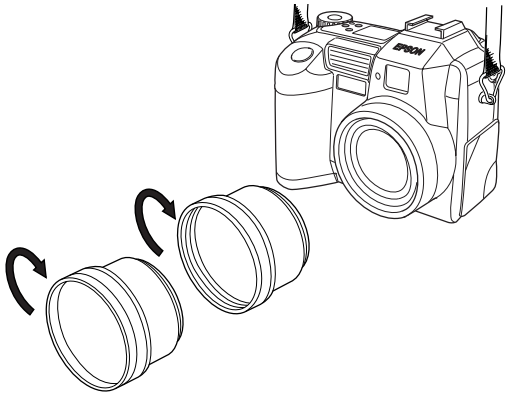
3. Adjust the tripod to view your subject as desired.

Attaching an Optional Converter Lens or Filter

You can attach a 49 mm telephoto or wide-angle converter lens to the camera using the lens adapter that came with your camera. You can also use 49 mm close up lenses and filters.

You can order accessory Tiffen® lenses and filters from DC Pro Digital Camera Accessories at (800) 522-7835 or (516) 434-8800. See the brochure that came in your box.

Screw the lens adapter onto the camera's lens, and then screw the converter lens or filter onto the lens adapter.



Attaching an Optional Flash

You can attach an optional flash unit to the camera to significantly increase the brightness of your images in dark environments. It also works well for portrait photography.

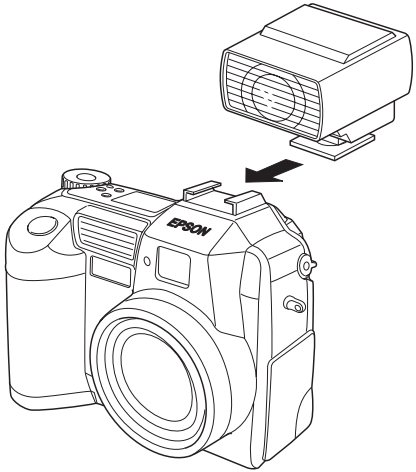
EPSON recommends the following external flash (available through photo specialty shops, mail order catalogs, and on the Internet):

Brand: Metz
Model: 32Z-2

NOTE
The camera must be in the Manual user mode to enable the external flash. See page 1-9 to change your user mode to Manual.

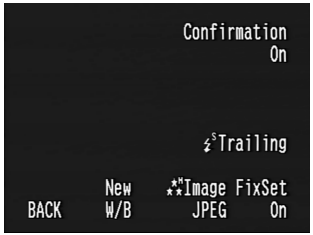
Follow these steps to attach the flash and set up your camera to use it:

1. Make sure the camera and flash are both turned off.
2. If necessary, insert batteries into the flash unit as described in the manufacturer's instructions.
3. Slide the flash onto the top of the camera's hot shoe as shown below. (See the manual for the flash if you need more detailed instructions.)



4 Turn on the camera and turn your camera dial to . You see the SETUP menu.

5 Press the button next to Shot SETUP. You see the Shot SETUP menu.



6 Press the button next to Trailing (or the current flash setting) to change the setting to Ext Flash (external).

7 Turn the camera dial to the setting you want to take a picture.

8 Turn on the flash.

Now you are ready to start using your camera with the flash.

NOTE

The camera's flash modes are disabled when using the external flash. See the flash documentation for information on any available settings.

Using a PCMCIA Adapter

If your desktop or notebook computer has a Type II PCMCIA card slot, you can use a PCMCIA adapter to access images stored on CompactFlash cards.

NOTE

- *If you don't have an adapter, you can use Image Expert to transfer photos to your computer. See Chapter 10.*
- *If you can't access a card in your notebook computer, contact the computer manufacturer. See page A-11 for more information.*

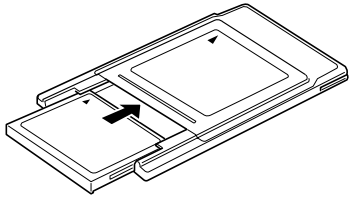
If you're using a Macintosh, you must enable PC Exchange extension software to access files on CompactFlash cards. See your Macintosh documentation for information.

For information on installing, formatting, and removing memory cards from your camera, see Chapter 1.

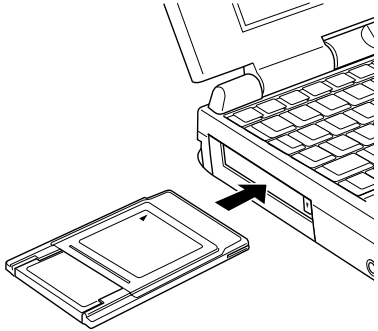
Installing the PCMCIA Adapter

Follow these steps to install the adapter:

1 Insert the memory card all the way into the adapter.



2 Insert the adapter into your computer's Type II PCMCIA slot.



Transferring Photos With the Adapter

Once the adapter and card are installed in your computer's PCMCIA slot, you can transfer photos by simply copying them to your hard drive. This is the fastest way to get pictures into your computer. The photos are stored in the DCIM/100EPSON folder on the card and the video clips are stored in the Movie folder.

- In Windows, use My Computer or the Windows Explorer to drag and drop image files to your hard drive.
- On a Macintosh, use the Finder to drag and drop image files to your desktop or hard drive.

Image Authentication System

If you want to verify the authenticity of photos taken with your camera, you can purchase the EPSON Image Authentication System (IAS). This software detects when even a single bit of digital data in a picture has been altered. Because IAS doesn't change the file format, it has no effect on your ability to store and display pictures, or to use them in other applications.

For ordering information, see page B-2.

Specifications

Camera

Physical Dimensions

Width	4.3 in (108 mm)
Height	3.5 in (89 mm)
Depth	2.6 in (65 mm)
Weight	12.9 oz (365 g) without batteries, strap, lens cap, and CompactFlash memory card

Power

Sources	Includes 4 AA rechargeable NiMH batteries and charger. Also accepts 4 AA batteries (single-use alkaline or lithium) Optional Universal AC adapter (B867081)
Battery Life (when using the included 1.2V/ 1500mAh NiMH batteries)	Over 2000 pictures using the viewfinder Approximately 155 pictures using the LCD screeen (with automatic shut off set to 30 seconds) Approximately 200 minutes playback

Technical

Product type	Digital still AF camera with LCD screen
CCD	1/1.8 inch color area CCD (3.34 megapixels)
Image resolution	2048 × 1536 pixels (fine and super fine) 640 × 480 pixels (standard) 2048 × 768 pixels (panoramic fine and super fine) 2544 × 1904 pixels* (HyPict) 2544 × 952 pixels* (HyPict panorama) * Interpolated
File formats	Still images: JPEG, Tiff Video clips: QuickTime Movie (Motion JPEG)
Bit depth	16 million colors, 24-bit
Serial communication speed	Up to 230.4 Kbps with high-speed serial port (19.2 Kbps or higher)
Serial cable, Windows PC	10-pin connector (camera) 9-pin DSUB female connector (computer)
Serial cable, Macintosh	10-pin connector (camera) 8-pin mini-DIN male connector (computer)
USB cable	Small size, B-Type connector (camera) Standard, A-Type connector (computer)
USB communication speed	Up to 12 Mbps
Video out	NTSC and PAL standards
Internal ROM	2MB flash program memory
Internal RAM	16MB
Expansion memory	16MB CompactFlash memory card; also accepts optional 4MB to 192MB Type I CompactFlash memory cards
Self-timer	10 seconds
Tripod mount	Built-in

Environmental

Temperature	Operating: 41 to 95 °F (5 to 35 °C) Non-operating: –4 to 140 °F (–20 to 60 °C)
Humidity	Operating: 30 to 80% (non-condensing) Non-operating: 10 to 80% (non-condensing)

Safety

United States	FCC Part 15 Subpart B Class B
Canada	CSA C108.8 Class B

Photographic

Lens	f = 7 to 21 mm (equivalent to a 34 to 102 mm lens on a 35 mm camera) F2.0 to 2.5
Auto-focus range	20 inches (50 cm) to infinity (normal) 8 to 20 inches (20 to 50 cm) (macro mode) 2.36 to 20 inches (macro mode, wide angle)
Manual-focus range	Three settings (approx. 3 ft., 10 ft., and infinity) for normal mode and two settings for macro mode
LCD screen	1.8-inch TFT color LCD (110 thousand pixels: 512 × 218 pixels) Shows 98% of field captured
Sensitivity	Equivalent to ISO 100/200/400

Exposure control	Programmed auto exposure Exposure value adjustment: –2 to +2 EV, in 9 or 21 steps Manual shutter speed and aperture settings, and shutter-priority and aperture-priority settings Spot metering and matrix metering
White balance	TTL automatic white balance Fixed white balance (5200 °Kelvin) User-defined white balance
Zoom	3× optical zoom 2× digital zoom
Shutter	Electric iris with mechanical shutter, 8 seconds to 1/750 seconds (fastest shutter speed depends on aperture setting)
Viewfinder	Real-image optical, with centering cross hair (view range approximately 83%) Adjustable focus with diopter
Aperture	F2.0, F2.3, F2.8, F4.0, F5.6, F8.0
Flash	Automatic luminance control flash
Flash modes	Forced flash, automatic, flash off, red-eye reduction, leading or trailing slow synchronized flash modes (leading or trailing can be set through the LCD menus) External flash mode for optional external flash that attaches to hot shoe on camera (can be enabled through the LCD menus)

Photo Processing Time and File Size (approximate)

Image Mode	Photo processing time (seconds)	Photo processing time for playback (seconds)	File Size
Standard	0.07	0.5	100KB
Fine	1.0	1.5	500KB
Super Fine	1.0	2.5	1.0MB
HyPict	14.0	4.0	1.2MB
Tiff	32.0	34.0	9.1MB

NiMH Battery Charger

Physical Dimensions

Width	3.0 inches (76 mm)
Height	4.5 inches (115 mm)
Depth	1.1 inch (28 mm)
Weight	Approximately 4.6 oz (130 g)

Technical

Input	100 to 240 V, 50 to 60 Hz
Output	DC 1.2 V/490 mA × 4
Charging time	240 minutes maximum (initial charge) 2 1/2 hours average (subsequent charges)
Power consumption	Approximately 8W
Charging temperature	41 to 95 °F (5 to 35 °C)
Storage temperature	–4 to 86 °F (–20 to 30 °C)

NiMH Batteries

Type	Cylindrical sealed Nickel-Metal Hydride rechargeable battery
Size	AA
Output	DC 1.2 V

Optional Universal AC Adapter

Physical Dimensions

Width	1.7 inches (43 mm)
Height	1.22 inches (31 mm)
Depth	4.1 inches (104 mm)

Technical

Output	DC 7 V/2.0 A
Input	100 to 240 V AC, 50 to 60 Hz

CompactFlash Memory Card

Storage Capacity

16MB

Physical Dimensions

Width	1.7 inches (42.8 mm)
Height	1.5 inches (36.8 mm)
Depth	0.13 inch (3.3 mm)

Minimum System Requirements

To transfer images to your computer and edit them, make sure your system meets these minimum requirements:

Windows Systems

- IBM-compatible PC with 486 or higher processor
- At least 32MB RAM (64MB when using Photo! Print2)
- Double-speed CD-ROM drive
- At least 40MB free hard disk space (150MB when using Photo! Print2)
- VGA or SVGA monitor with at least 256-color display (16-bit color or greater recommended)
- Mouse or other pointing device
- 16-bit sound card and speakers
- QuickTime 3.0 or later (QuickTime 4.0 is included with Image Expert)

Serial Connection

- Microsoft® Windows 2000, Windows 98, Windows 95, or Windows NT 4.0 (Service Pack 3 or later recommended)
- Serial port with standard RS-232C interface (19200 bps or higher)

USB Connection

- Windows 2000 or Windows 98 PC with built-in USB port

Macintosh Systems

- At least 32MB RAM (96MB when using Photo! Print2)
- At least 40MB free hard disk space (150MB when using Photo! Print2)
- CD-ROM drive
- VGA monitor with minimum resolution of 640 × 480
- 16-bit sound card and speakers
- QuickTime 3.0 or later (QuickTime 4.0 is included with Image Expert)

Serial Connection

- Macintosh PowerPC with System Software Version 7.5 or later
- Power Macintosh G3 or later with System Software Version 8.5.1 or later
- Macintosh modem/printer serial port (19200 bps or higher)

USB Connection

- iMac with Mac® OS Version 8.5.1, or later
- Power Macintosh G3 or later with System Software Version 8.5.1 or later
- Built-in USB port

Regulatory Information and Warranty

This appendix includes the following important information:

- Declaration of Conformity
- FCC Compliance Statement
- Warranty

Declaration of Conformity

DECLARATION of CONFORMITY

According to 47CFR, Part 2 and 15 for Class B Personal Computers and Peripherals; and/or CPU Boards and Power Supplies used with Class B Personal Computers:

We: EPSON AMERICA, INC.
Located at: MS 6-43
3840 Kilroy Airport Way
Long Beach, CA 90806-2469
Telephone : (562)290-5254

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR §2.909. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Trade Name: EPSON
Type of Product: Digital Still Camera
Model: G790A

Product: EPSON PhotoPC3000Z

FCC Compliance Statement

FCC COMPLIANCE STATEMENT
FOR AMERICAN USERS

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio and television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult an experienced radio/TV technician for help.

WARNING

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification of this device and may cause interference levels that exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

FOR CANADIAN USERS

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Warranty

EPSON AMERICA, INC.
LIMITED WARRANTY

What Is Covered: Epson America, Inc. ("EPSON") warrants to the first end-user customer that the EPSON PhotoPC 3000Z Digital Camera enclosed with this limited warranty statement, if purchased and used in the United States or Canada, conforms to the manufacturer's specifications and will be free from defects in workmanship and materials for a period of one year from the date of original purchase. EPSON further warrants to the first end-user customer that the Nickel Metal Hydride Battery Charger and four Nickel Metal Hydride Batteries enclosed with this limited warranty statement will be free from defects in workmanship and materials for a period of ninety days from the date of original purchase.

What EPSON Will Do To Correct Problems: Should your EPSON product prove defective during the warranty period, please call EPSON at 562-276-4303 for warranty repair instructions and return authorization, if required. An EPSON service technician will provide telephone diagnostic service to determine whether the unit requires repair. If repair is required, EPSON will, at its option, repair or replace on an exchange basis the defective unit, without charge for parts or labor. If the product requires repair or replacement, it is your responsibility to package it in its original container or an equivalent, along with proof of the date of original purchase and ship it to EPSON. Packaging and shipping costs incurred in presenting your EPSON product for warranty service are your responsibility. Return shipping costs from the EPSON repair facility are EPSON's responsibility. When warranty service involves the exchange of the product or of a part, the item replaced becomes EPSON property. The exchanged product or part may be new or previously repaired to the EPSON standard of quality. Exchange or replacement products or parts assume the remaining warranty period of the product covered by this limited warranty.

What This Warranty Does Not Cover: This warranty covers only normal consumer use in the United States and Canada. This warranty does not cover damage to the EPSON product caused by parts or supplies not manufactured, distributed or certified by EPSON. This warranty does not cover third party parts, components or peripheral devices added to the EPSON product after its shipment from EPSON. EPSON is not responsible for warranty service should the EPSON label or logo or the rating label or serial number be removed or should the product fail to be properly maintained or fail to function properly as a result of misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as fire, flood, and lightning, improper electrical current, software problems, interaction with non-EPSON products, or service other than by an EPSON Authorized Servicer. If a claimed defect cannot be identified or reproduced in service, you will be held responsible for costs incurred.

THE WARRANTY AND REMEDY PROVIDED ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SOME LAWS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES. IF THESE LAWS APPLY, THEN ALL EXPRESS AND IMPLIED WARRANTIES ARE LIMITED TO THE WARRANTY PERIOD IDENTIFIED ABOVE. UNLESS STATED HEREIN, ANY STATEMENTS OR REPRESENTATIONS MADE BY ANY OTHER PERSON OR FIRM ARE VOID. EXCEPT AS PROVIDED IN THIS WRITTEN WARRANTY, NEITHER EPSON AMERICA, INC., NOR ITS AFFILIATES SHALL BE LIABLE FOR ANY LOSS, INCONVENIENCE, OR DAMAGE, INCLUDING DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, RESULTING FROM THE USE OR INABILITY TO USE THE EPSON PRODUCT, WHETHER RESULTING FROM BREACH OF WARRANTY OR ANY OTHER LEGAL THEORY.

In Canada, warranties include both warranties and conditions.

Some jurisdictions do not allow limitations on how long an implied warranty lasts and some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from jurisdiction to jurisdiction.

To locate the EPSON Authorized Reseller nearest you call:

(800) 922-8911
or write to:
Epson America, Inc. • P. O. Box 93012 • Long Beach, CA 90809-9941 • MS: 6-40

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