

**EPSON®**  
***PhotoPC***<sup>TM</sup>**600**  
**XGA COLOR DIGITAL CAMERA**

***User's Guide***

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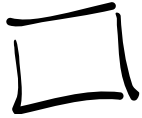
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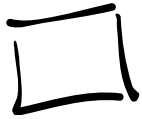
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# Introduction

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Your new EPSON® PhotoPC™ 600 is an advanced, easy-to-use digital camera with a built-in LCD screen. You can view your pictures before and after you capture them, or display them on a TV or multimedia projector and transfer them to your computer. You can even upload pictures, text, and graphics into your camera, and play them back for presentations.

PhotoPC 600 captures images in 24-bit color at XGA resolution (1024 × 768 pixels). Macro, zoom, panorama, and multi-frame modes give you the flexibility you need for professional results. You can expand the camera's capacity with optional CompactFlash™ memory cards. Your PhotoPC 600 comes complete with cables, batteries, battery charger, software, and utilities for downloading, editing, organizing, and printing your pictures.



## PhotoPC 600 Features

PhotoPC 600 is a complete system for capturing digital images, and includes the following features:

- ▶ Resolutions up to 1024 × 768 pixels
- ▶ 4MB internal flash memory that holds at least 16 high-resolution or 50 standard-resolution images
- ▶ 24-bit color or 8-bit grayscale image capture
- ▶ Two-inch, active matrix TFT color LCD screen for previewing and playing back pictures
- ▶ Video output for playing your pictures back on a TV, VCR, or projector
- ▶ Macro, digital zoom, panorama, and multi-frame picture formats
- ▶ Built-in flash
- ▶ Automatic shut-off to save batteries
- ▶ Automatic date and time recording for each picture

- ▶ Cables for transferring photos to your Windows® PC or Macintosh® and displaying on a TV or multimedia projector

Your camera comes with the PhotoPC 600 software suite, which includes the following applications:

- ▶ Sierra® Image Expert™ software for transferring, organizing, editing, and printing your pictures
- ▶ The EPSON Photo!2 application and TWAIN driver for transferring and converting your pictures
- ▶ EPSON Photo File Uploader for converting presentation slides into image files and uploading them into your camera
- ▶ EPSON Photo!2 Program Uploader for adding new firmware that will let you print directly from the camera

## Optional Accessories

EPSON offers these accessories for the PhotoPC 600:

- ▶ AC adapter for use with any electrical outlet
- ▶ EPSON Stylus Photo Direct Print kit that allows you to print directly from the camera to the EPSON Stylus® Photo printer (Check EPSON's website for availability.)
- ▶ Replacement NiMH rechargeable batteries
- ▶ Replacement NiMH Power Pak including batteries and charger

You can also use CompactFlash memory cards and PCMCIA adapters available from leading suppliers, such as Simple Technology® or SanDisk.®

## 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
- ▶ Microsoft® Windows 95, Windows 3.1 or later, Windows for Workgroups 3.11 or later, or Windows NT® 3.5 or later
- ▶ Serial port with standard RS-232C interface
- ▶ At least 16MB RAM
- ▶ Double-speed CD-ROM drive
- ▶ Hard disk drive with at least 30MB free space
- ▶ VGA or SVGA monitor with at least 256-color display
- ▶ Mouse or other pointing device

## Macintosh Systems

- ▶ Macintosh 68040 or higher or PowerPC™ processor
- ▶ System Software Version 7.1 or later (System 7.5 or later is required to access optional CompactFlash card memory directly from the Macintosh.)
- ▶ 16MB RAM
- ▶ At least 30MB free hard disk space
- ▶ Double-speed CD-ROM drive
- ▶ VGA monitor with at least 256 colors
- ▶ Standard Macintosh modem/printer serial port

## Where To Get Help

EPSON provides customer support through the following services:

### *Electronic support services*

Service	Access
World Wide Web	From the Internet, you can reach EPSON's Home Page at <a href="http://www.epson.com">http://www.epson.com</a> .

### *Electronic support services (continued)*

Service	Access
EPSON Internet FTP Site	If you have Internet FTP capability, use your Web browser (or other software for FTP downloading) to log onto <a href="http://ftp.epson.com">ftp.epson.com</a> with the user name <b>anonymous</b> and your e-mail address as the password.
EPSON Download Service	You can call the EPSON Download Service at <b>(800) 442-2007</b> . Set your communications software to 8 data bits, 1 stop bit, no parity. Modem speed can be up to 28.8 Kbps.
EPSON Forum on CompuServe®	Members of CompuServe can type <b>GO EPSON</b> at the menu prompt to reach the Epson America Forum. For a free introductory CompuServe membership, call (800) 848-8199 and ask for representative #529.

### *Automated telephone services*

Service	Access
EPSON SoundAdvice™	Pre-recorded answers to commonly asked questions about EPSON products 24 hours a day, seven days a week, call <b>(800) 442-2110</b> .
EPSON FaxAdvice™	Access EPSON's technical information library by calling <b>(800) 442-2110</b> . You must provide a return fax number to use this service.
EPSON Referral Service	For the location of your nearest Authorized EPSON Reseller call <b>(800) 442-2110</b> .

EPSON also provides technical support and information on the installation, configuration, and operation of EPSON products. Dial **(800) 922-8911**, **(310) 782-2600** (U.S.), or **(905) 709-9475** (Canada), 6 A.M. to 6 P.M., Pacific Time, Monday through Friday.

Before you call, please have the following information ready:

- ▶ Product name
- ▶ Product serial number
- ▶ Computer configuration
- ▶ Description of the problem

You can purchase manuals, accessories, and parts from EPSON Accessories at **(800) 873-7766** (U.S. sales only). In Canada, please call **(800) 873-7766** for dealer referral.

## Software Support

If you've tried the on-screen help and you still have questions, call one of the following numbers for technical support:

- ▶ **(800) 501-8902** for Image Expert (For Windows 95 users, make sure you check the Quick Tour first)
- ▶ **(800) 922-8911** for EPSON Photo!2

## Registration

Please take a minute to fill out the registration card for the PhotoPC 600 digital camera and mail it back to us. This enables you to receive special information on accessories, new products, and software upgrades. You'll get immediate attention if you have a problem with your PhotoPC 600.

## Safety Instructions

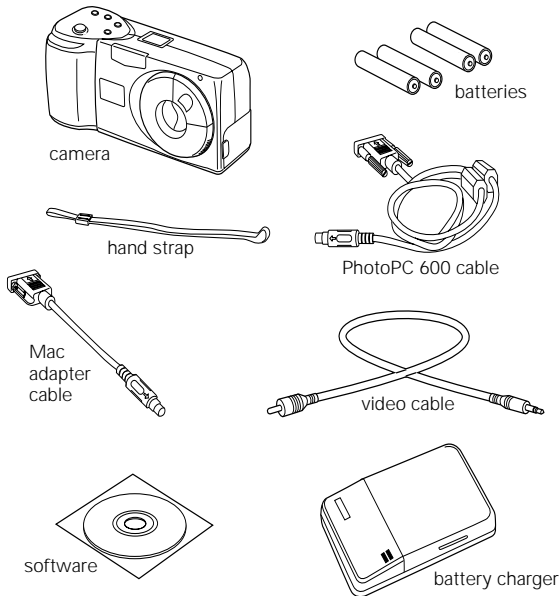
Read all of these instructions before using your camera and battery charger. Also follow all warnings and instructions marked on the camera, battery charger, and batteries.

- ▶ 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 35 to 95°F (0 to 35°C)
- ▶ Do not use the charger within reach of children.
- ▶ 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 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.
- ▶ If you use an extension cord with the optional AC adapter, make sure the total ampere rating of the devices plugged into the extension cord does not exceed the cord's ampere rating. Also, make sure the total ampere rating of all devices plugged into the wall outlet does not exceed the wall outlet's ampere rating.
- ▶ 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.

## 1

# Getting Started



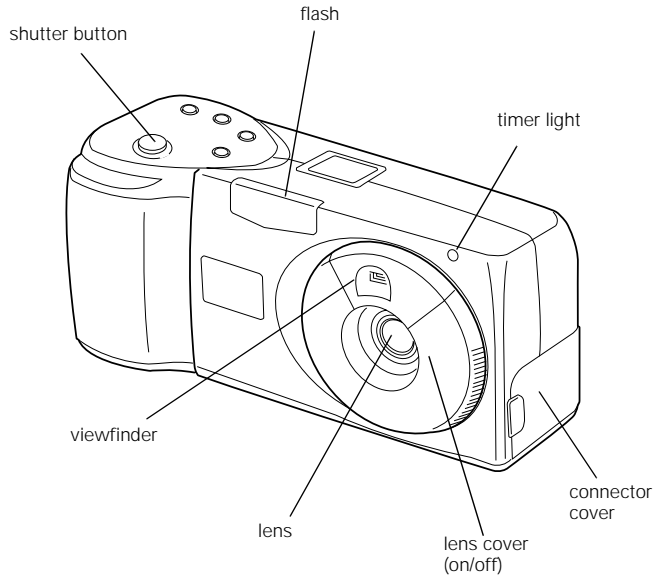
This chapter helps you get ready to use your new PhotoPC 600. It covers the following:

- ▶ Unpacking your PhotoPC 600
- ▶ Identifying camera parts
- ▶ Using batteries
- ▶ Attaching the hand strap
- ▶ Installing your PhotoPC 600 software
- ▶ Setting the language
- ▶ Setting the date and time

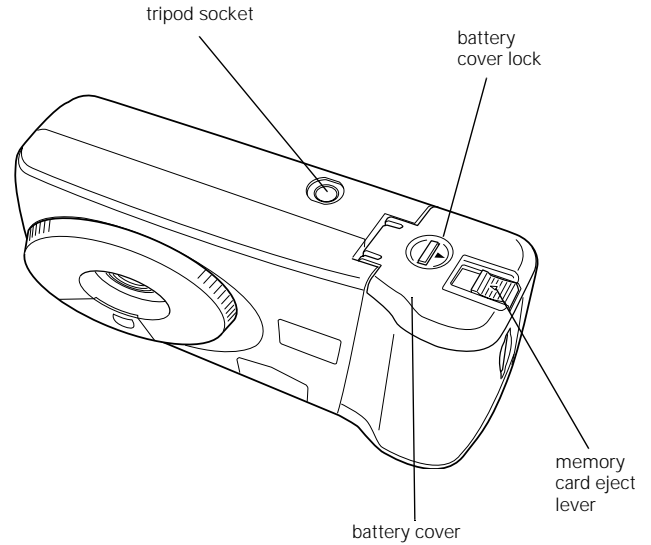
## Unpacking Your PhotoPC 600

Make sure you have all the parts shown to the left. If you're using a PC, you won't need the Macintosh adapter cable.

# Identifying Camera Parts

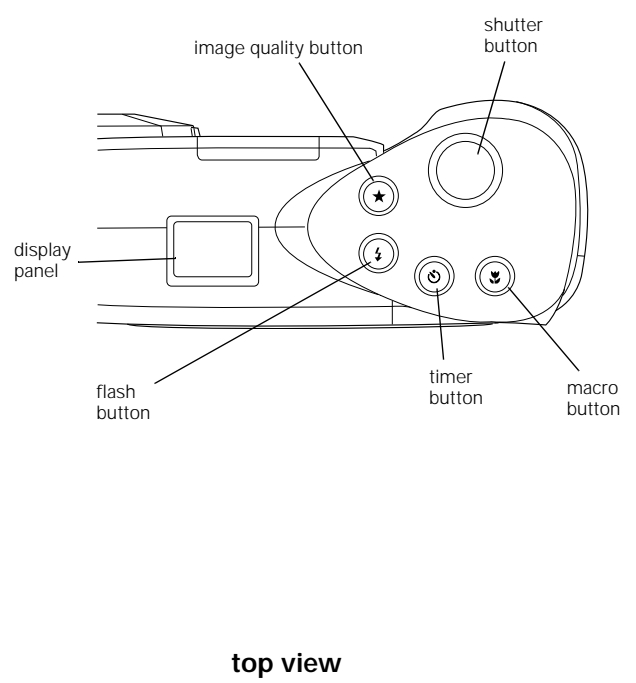
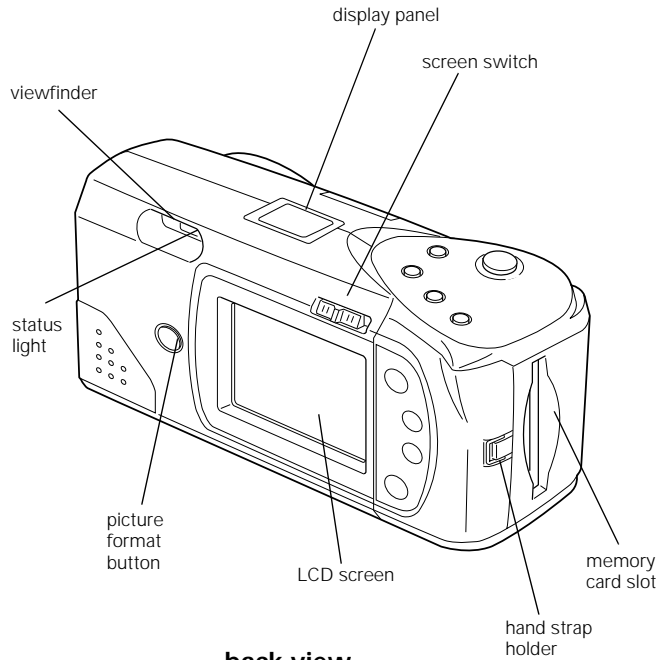


**front view**



**bottom view**





## Using Rechargeable NiMH Batteries

To help lower the cost of ownership, your PhotoPC 600 comes with four rechargeable NiMH batteries and a charger. Before you install the batteries in your camera, you may need to charge them two or three times so they are fully charged. The instructions in the following sections tell you how to charge, install, and handle batteries.

### Charging Batteries

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#### *WARNING*

*Shock hazard. Make sure you use the charger only with EPSON rechargeable NiMH batteries (model EU-24). To avoid the danger of leakage or explosion, do not place any other batteries in the charger. Read all safety and handling instructions before using the charger.*

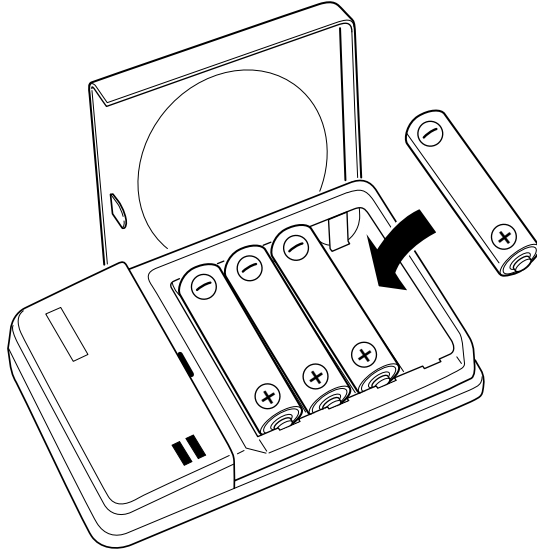
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Note the following when charging batteries:

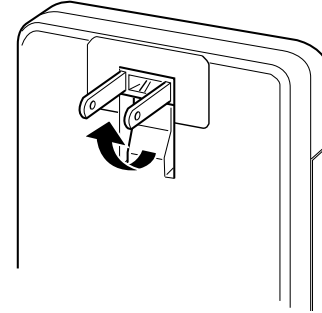
- Do not insert batteries backwards.
- Do not open the cover while batteries are charging.
- Do not use near water or handle with wet hands. For indoor use only.
- Do not use within reach of children.

Follow these steps to charge your batteries:

- 1 Lift up the cover of the charger and insert all four batteries, positioning the + and – ends as shown. Then close the cover firmly.



- 2 Turn the charger over and flip the two prongs out of their compartment.



- 3 Plug the charger into an electrical outlet.

Both lights turn red, indicating that the charger is working. When the batteries are fully charged, after about two and a half hours, the lights go off. To charge your batteries again, open and then close the charger again.

---

**NOTE**

*The charger lights flash to indicate changes in battery temperature and voltage. If the charger lights continue to flash for more than half an hour, the batteries may be damaged or worn out, and should be replaced. Unplug the charger if the batteries are not fully charged after two and a half hours.*

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- 4 When both lights are off, unplug the charger. To avoid overcharging, don't leave the charger plugged in for long periods of time after the lights go off.
- 5 Wait one hour until the batteries cool before removing them from the charger.
- 6 Before storing the charger, press down on the prongs to lock the plug into place.

---

**NOTE**

*Keep the charger terminals clean by wiping them with a dry cloth. Make sure you charge all four batteries before you use them. 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.*

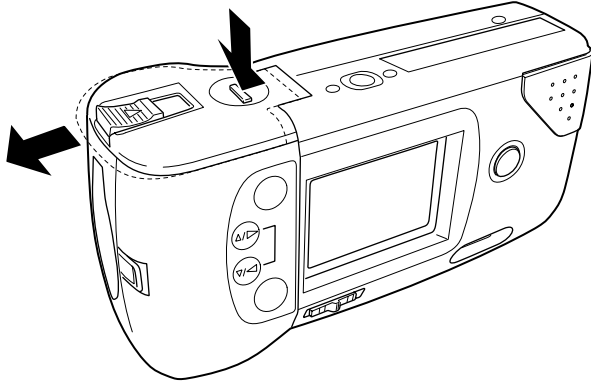
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## **Installing Batteries**

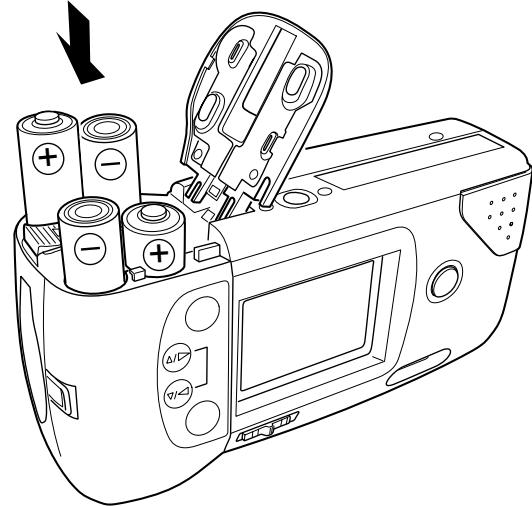
Before you install the batteries, make sure the camera is turned off (the lens cover is closed). Then follow these steps:

- 1 Turn the camera upside down with the LCD screen facing you.

- 2 Push the battery cover lock down. While holding the lock, slide the battery cover to the left to open it.



- 3 Insert all four batteries into the compartment, positioning the + and - ends as shown below:



- 4 Close the battery cover and slide it to the right until it snaps into place.

## Handling Batteries

If you need to replace your rechargeable NiMH batteries, the camera can also accept the following:

- ▶ Rechargeable AA NiCad batteries
- ▶ Single-use AA alkaline batteries (Energizer® brand recommended)
- ▶ Single-use AA lithium batteries (longer life)

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### 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's circuits. Read all safety and handling instructions before using batteries.*

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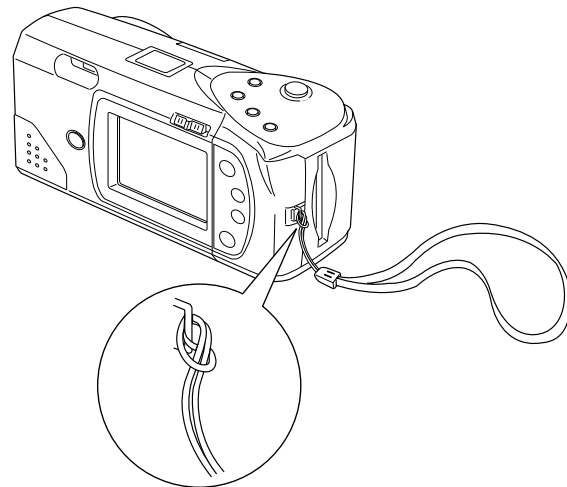
Note the following when handling batteries:

- ▶ Use only the EPSON battery charger (Model EU-23) to charge the batteries that came with your camera.  
*Pour usage avec le chargeur de piles modele EU-23.*
- ▶ Use the batteries that came with your camera only in EPSON digital cameras.
- ▶ Do not use manganese batteries.
- ▶ Replace all four batteries at the same time.
- ▶ 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 2% per day, whether they are used or not.
- ▶ If the batteries are not fully discharged before you charge them, your camera's operating time may decrease temporarily.
- ▶ 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 and the manufacturer.

## Attaching the Hand Strap

To attach the hand strap, loop the strap around the holder on the side of the camera as shown below.



## Installing Your PhotoPC 600 Software

PhotoPC 600 comes with everything you need to transfer your pictures from the camera to your computer, organize, enhance, and share your images, and insert them into documents. You can also upload pictures and presentations into your camera. The included CD-ROM has these applications for your Windows PC or Macintosh:

- ▶ Sierra Image Expert
- ▶ EPSON Photo!2 TWAIN and standalone application
- ▶ EPSON Photo File Uploader
- ▶ EPSON Photo!2 Program Uploader

All programs will be installed in the PhotoPC 600 folder.

## Installing for Windows 95 or Windows NT 4.0

Follow these steps:

- 1 Insert the CD-ROM in your drive. The install program starts automatically.

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

- 2 Follow the instructions on the screen.

---

### NOTE

After you install your software for Windows 95, you can run the Image Expert Quick Tour to learn more about your camera. See page 4-5 for instructions.

---



## Installing for Windows 3.1x or Windows NT 3.51

Follow these steps:

- 1 Insert the CD-ROM in your drive.
- 2 In the Program Manager, select Run from the File menu.
- 3 Type D:\SETUP. If your CD-ROM drive is not drive D, substitute the correct letter.
- 4 Click OK and follow the instructions on the screen.

## Installing on a Macintosh

Follow these steps:

- 1 Insert the CD-ROM in your drive.
- 2 Double-click the CD-ROM icon.
- 3 Double-click the Install Image Expert icon. Click Continue and follow the instructions on the screen.

## Making Software Installation Diskettes

You can create Image Expert installation diskettes from the CD-ROM, following the instructions below. If you need the EPSON Photo!2 software and utilities on diskette, you can download the files from the EPSON website at [www.epson.com](http://www.epson.com).

### Making Windows Diskettes

Before you start, make sure you have 6 blank, formatted diskettes for Windows 3.1 or 9 for Windows 95 and Windows NT. Then follow these steps:

- 1 Use the Windows Explorer (or File Manager) to access your CD-ROM drive. (You may have to exit the Setup program first.)
- 2 Double-click Mkfloppy.
- 3 Depending on which version of Windows you're using, select Windows 95/Windows NT or Windows 3.1. Then select your diskette drive and click OK. Follow the instructions on the screen to create the installation diskettes.

## Making Macintosh Diskettes

Before you start, make sure you have 8 blank, formatted diskettes. You can use either the Disk Copy 6.2 utility (you can download it from the Apple® website if you don't have it), or the DropImage program on the PhotoPC 600 CD-ROM.

To use Disk Copy 6.2, double-click the file named Make Floppies and follow the instructions on the screen. The Image Expert disk image files are located in the Disk Images folder on the CD-ROM.

Follow these steps to make diskettes using the DropImage program:

- 1 Open the Disk Images folder on your CD-ROM.
- 2 Drag the file Disk1.image onto DropImage 1.0. An icon for Disk 1 appears on your desktop.
- 3 Insert a blank, formatted diskette in your drive and change its name to Image Expert 1.

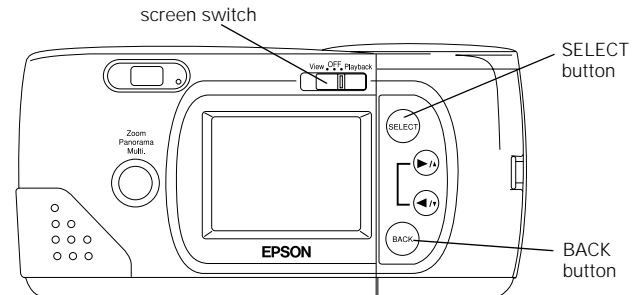
- 4 Drag the Disk 1 icon onto the Image Expert 1 icon. If you are asked to confirm the copy, click Yes.
- 5 When the copy finishes, drag both icons to the trash. Your Macintosh ejects the diskette.
- 6 Repeat steps 2 to 5 for each disk image file.

## Setting the Language

Before you use the camera, you need to set the language for information displayed on the LCD screen.

Follow these steps to select English:

- 1 Slide the screen switch to Playback.



You see a message asking you to select your language.

- 2 Press the SELECT button. You see the Language Setting menu:



- 3 Press the SELECT button until English is highlighted.
- 4 Press the BACK button to save your selection.
- 5 Slide the screen switch OFF.

## 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. You'll need to set the clock again whenever you install new or recharged batteries.

---

### NOTE

You can also set the camera's clock through your computer. See Chapter 4 for instructions on connecting the camera to your computer, and page 8-6 for instructions on setting the date and time.

---

Follow these steps to set the camera's clock:

- 1 Slide the screen switch to Playback. You see a message asking you to set the clock.
- 2 Press the SELECT button.

You see the clock setting screen, with the year setting highlighted in red:



- 3 If necessary, press the ►/▲ button to increase the number or the ◀/▼ button to decrease the number, until the year is correct.

- 4 Press the SELECT button. The year setting is saved and the month setting is highlighted.
- 5 Adjust the month, day, hour, and minute settings as described above until the date and time are correctly adjusted and saved.

After you finish setting the clock and press the SELECT button, your screen returns to playback mode.

- 6 Slide the screen switch OFF.

## 2

## Taking Pictures

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Taking pictures with PhotoPC 600 is similar to using a traditional “point and shoot” camera. This chapter tells you everything you need to know, including the following information:

- ▶ Getting ready to take pictures
- ▶ Taking pictures with the viewfinder
- ▶ Taking pictures with the LCD screen
- ▶ Using macro mode to take close-ups
- ▶ Using the flash
- ▶ Taking pictures with the timer
- ▶ Setting image quality and color mode
- ▶ Taking special format pictures
- ▶ Checking the picture counter

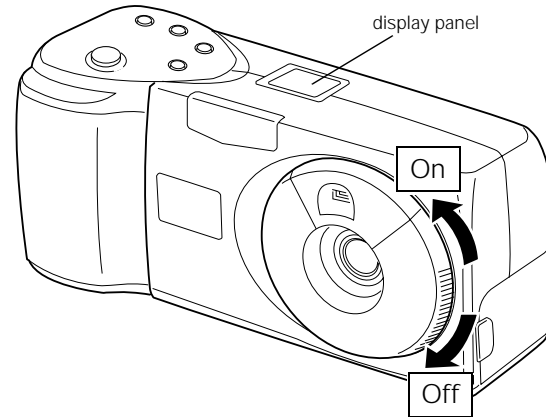
## Getting Ready to Take Pictures

Before you can take pictures with PhotoPC 600, you need to turn on the camera and check the display panel. It's important to be aware of the camera's power-saving features and the status of your batteries.

### Turning the Camera On and Off

To turn the camera on, rotate the lens cover counterclockwise. The lens cover opens and the display panel on the top of the camera lights up, as shown in the illustration on the right. The status light on the back of the camera flashes for a few seconds. When it turns green, the camera is ready to take pictures.

To turn off the camera, rotate the lens cover clockwise. The lens cover closes and the display panel turns off.



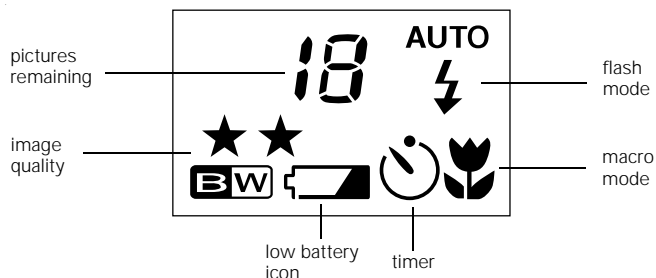
### Saving Power With Auto Shut-off

If you wait more than 60 seconds before taking a picture, the camera turns off automatically to save battery power. To turn the camera back on, close the lens cover and then open it again.


If you want, you can change the 60-second time period for auto shut-off. For more information, see pages 8-6 and 8-8.

## Using the Display Panel

The display panel shows the status of your batteries, the camera's current settings, and the number of pictures remaining.



## Checking the Battery

 When your battery power is almost out, the low battery icon appears on the display panel. The icon flashes when your battery power is completely out. At this point, you can't take pictures until you recharge or replace the batteries or use the AC adapter.

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 your batteries faster. See page 1-4 for battery use instructions.

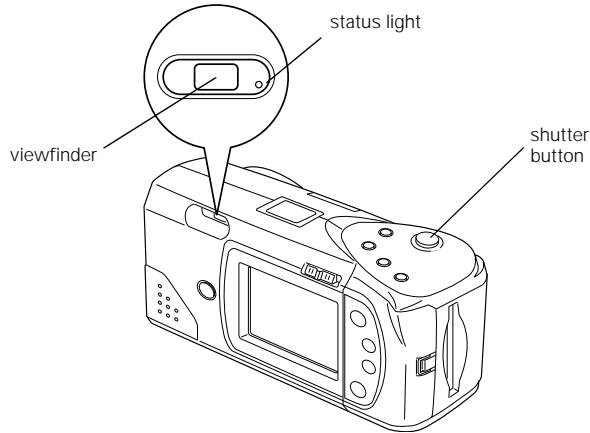
## Taking Pictures With the Viewfinder

You can capture an image with PhotoPC 600 as you would with any point-and-shoot camera: look through the viewfinder and snap the shutter. However, you can also use the LCD screen to preview your picture. See page 2-5 for instructions on using the LCD screen.

Follow these steps to take a picture with the optical viewfinder:

- 1 Make sure you are at least 20 inches (50 cm) away from your subject.

- 2 Turn the camera on and wait until the status light turns green.



- 3 Look straight through the viewfinder and center your subject within the cross-hairs.
- 4 Hold the shutter button halfway down to lock the auto focus. The status light changes from green to orange. At this point, you can move your subject off-center if you want.

- 5 Press the shutter button the rest of the way down to take the picture.
- 6 Hold the camera still until it beeps and the status light starts flashing red.

The flashing red light indicates that the camera has captured the image and is processing it.

---

**CAUTION**

*If you set the camera down while it is processing a picture, make sure you handle it carefully. The camera may lose your image if you set it down too hard.*

---

When the light stops flashing and turns green, the image is saved and you can take another picture. Saved images remain in memory for at least a year, even when the camera is turned off and the batteries are removed.

---

**NOTE**

*Remember that the camera shuts off automatically after 60 seconds. To turn the camera back on, close the lens cover and then open it.*

---



## 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. You can take accurate close-ups and special format pictures using the screen.

---

### NOTE

*The image area displayed in the screen is slightly smaller than the view that will be captured. The preview on the screen may also appear to flicker under strong fluorescent lighting.*

---

Follow these steps to take a picture with the LCD screen:

- 1 Turn the camera on and slide the screen switch to the View position. You see a preview of your picture on the LCD screen, with icons indicating the image quality setting ★, the number of pictures you can take 📷, and the number of pictures taken 📷.
- 2 Center your subject on the screen and then follow steps 4 and 5 on page 2-4.

The LCD screen displays the picture you took with an icon 📷 on the screen until the camera is finished processing. The screen may then be blank for a few moments before it returns to live preview.

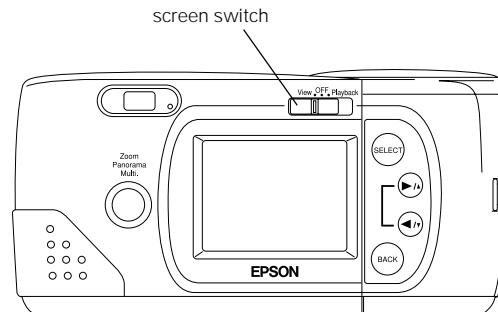
- 3 Slide the switch OFF when you're finished using the screen.

---


### NOTE

*The LCD screen uses up battery power quickly. If it is idle for more than 30 seconds, the screen turns off automatically. To turn it back on, slide the switch to **OFF** and then back to **View**.*

---



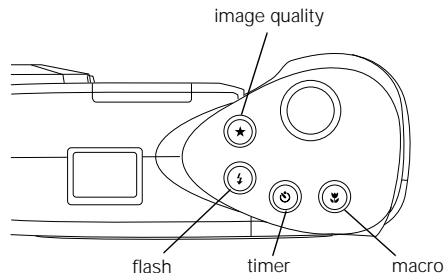
## Using Macro Mode to Take Close-ups

 With the LCD screen, you can use the camera's macro mode to take pictures as close as 8 inches (20 cm).

Follow these steps:

- 1 Turn the camera on and slide the screen switch to the View position. You see a live preview on the LCD screen.
- 2 Press the macro button on top of the camera.

The macro icon (shown above) appears on the display panel. For a few seconds, the word **MACRO** appears on the LCD screen, and the frame around the image turns green.




- 3 Press the shutter button to capture the image.
- 4 To turn off macro mode, press the macro button again or turn off the camera or LCD screen.


## Using the Flash

The camera's built-in flash is effective within a range of 8 inches to 8 feet (20 cm to 2.4 m). Press the flash button to cycle through the three flash settings. An icon for each setting appears on the display panel as shown below:

### Auto

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

### Flash Off

 The flash is disabled, even when adequate lighting is not available. Use this setting for special effects, or where flash photography is prohibited.

## Forced Flash



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

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

---

### TIP

*When you're taking pictures outdoors, make sure the sun is at your back. In very bright light (at the beach or in snow, for example), your pictures may come out too light. You can use Image Expert or other image editing software to correct most over-exposure problems.*

---

## 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.

Follow these steps to take a picture with the timer:

- 1 Secure the camera on a flat surface or on a tripod. (See page A-3 for information on attaching the camera to a tripod.)
- 2 Turn on the camera and wait until the status light turns green.
- 3 Press the timer button. The timer icon appears on the display panel.
- 4 Press the shutter button. The timer icon and the red timer light on the front of the camera flash slowly for 8 seconds. Then they flash rapidly for 2 seconds before the shutter is released.  
  
The camera beeps when the image is captured. The status light on the back of the camera flashes red as PhotoPC 600 processes the image. When the status light stops flashing and turns green, you can take another picture.
- 5 To turn off the timer, press the timer button again or turn off the camera.

## Setting Image Quality and Color Mode

PhotoPC 600 has several image quality (resolution) settings: three for color pictures and two for black and white pictures.

Press the image quality button on top of the camera to cycle from one setting to the other. The image quality icons appear on the display panel as shown below.


### Fine

★★ Produces color images at  $1024 \times 768$  pixels, with moderate compression. Your pictures include ample detail, and the camera holds at least 16 pictures (factory setting).


### Super Fine

★★★ Produces color images at  $1024 \times 768$  pixels with low compression. Your pictures include greater detail, and the camera holds at least 7 pictures. With less compression, Super Fine images are better for pictures that will be enlarged.

### Monochrome Fine

★★  Produces black and white images at  $1024 \times 768$  pixels, with moderate compression. Your pictures include ample detail, and the camera holds at least 16 pictures.

### Monochrome Super Fine

★★★  Produces black and white images at  $1024 \times 768$  pixels with low compression. Your pictures include greater detail, and the camera holds at least 7 pictures. With less compression, Monochrome Super Fine images (like those in color) are better for pictures that will be enlarged.

### Standard

★ Produces color images at  $640 \times 480$  pixels. The camera holds at least 50 pictures, but the image size is smaller and includes less detail when enlarged.

Fine image quality is sufficient for most purposes. Use super fine if you need maximum detail (in enlargements, for example). Note that super fine image files are more than twice the size of fine quality image files.

---

**NOTE**

You can switch freely between the settings and mix pictures of varying quality in the camera. The camera's image capacity will vary accordingly. Depending on the content of your pictures, your camera may hold more than the numbers shown on page 2-8. As long as the display panel shows a number other than zero, you can continue taking pictures.

---

The following examples show the same image captured at standard, fine, and super fine quality.



Super fine quality image  
1024 × 768 pixels, less compression



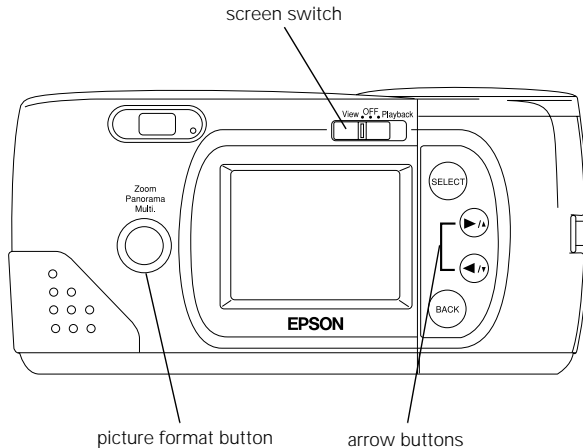
Fine quality image  
1024 × 768 pixels



Standard quality image  
640 × 480 pixels

## Taking Special Format Pictures

You can take three types of special format pictures with PhotoPC 600: digital zoom, panorama, and multi-frame. To shoot these types of pictures, you use the LCD screen and the buttons around the screen, as shown:



Before you start, turn the camera on and slide the screen switch to the View position. You see a preview of your picture on the LCD screen.

### 2-10 Taking Pictures


---

#### TIP

You can use macro mode in combination with any of these special formats.

---


## Digital Zoom

 Digital zoom pictures are captured at standard image quality (640 × 480 pixels). As you increase the magnification, your picture's resolution will decrease (unlike a true optical zoom).

Follow these steps to take a zoom format picture:

- 1 Press the picture format button.

A yellow frame appears around the previewed image, and you see the zoom icon, as shown above. (The image is not actually zoomed until you perform step 2.)

- 2 Press the  button to zoom in on the image.

You can increase the zoom magnification rate as follows:


Press ►/▲ ...	To increase the zoom rate to ...
Once	1.3 ×
Twice	1.6 ×
Three times	2 ×
Four times	2.5 ×
Five times	3 ×

The zoom magnification rate appears in the upper right corner of the screen after you press the ►/▲ button.

Press the ◀/▼ button to decrease the zoom rate.

- 3 Press the shutter button halfway to lock the auto focus. Then press it the rest of the way down to capture the image.
- 4 To return to normal picture format, press the picture format button again or turn off the camera or LCD.

## Panorama

 Images in the panorama format are long and narrow, although they are not captured at a wider angle than normal images. Follow these steps to take a panoramic picture:

- 1 Press the picture format button and then press the ◀/▼ button once.

Black margins appear at the top and bottom of the LCD screen, and you see the panorama icon, as shown above.

You can use the image quality button on top of the camera to select fine or super fine image quality (both at 1024 × 384 pixels) in color.

- 2 Press the shutter button halfway to lock the auto focus. Then press it the rest of the way down to capture the image.
- 3 To return to normal picture format, press the picture format button again, or turn off the camera or LCD.

## Multi-frame



When you use this format, the shutter releases 9 times in rapid sequence, producing a single image composed of 9 stop-action mini pictures or frames. You can capture a complex motion, such as your golf swing, in a series of easy-to-see steps. Since each frame is low in resolution, multi-frame images are primarily for computer display.

The camera captures 9 frames in a period of half a second. You can use the LCD screen Settings menu to change this period to one, two, or three seconds. See page 8-11 for instructions.

Follow these steps to take a multi-frame picture:

- 1 Press the photo format button and then press the ◀/▶ button twice.

A red frame appears around the previewed image, and you see the multi-frame icon at the bottom of the screen, as shown on page 2-12.

- 2 Press the shutter button. The LCD displays the 9 stop-action images. The total image area is  $640 \times 480$  pixels.
- 3 To return to normal picture format, press the picture format button again, or turn off the camera or LCD.

## Checking the Picture Counter

The large number in the center of the display panel shows how many additional pictures you can take. This number depends on your image quality and special format settings. If you change these settings, the number will change.

When the camera's memory is full, the number of pictures remaining is 0. The status light on the back of the camera turns red, and you can't press the shutter button.

To free up some of the camera's memory, you can play back your pictures on the LCD screen and erase the ones you don't want to save. See page 3-6 for instructions. If you want to save your pictures before you erase them, you need to connect the camera to your computer and transfer the images, as described in Chapter 4.



# 3

## Playing Back Photos



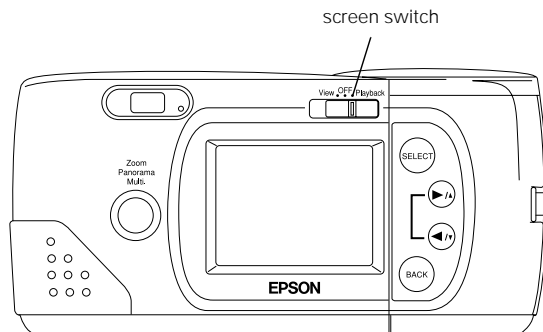
The LCD screen lets you play back your pictures one-by-one or in groups of nine at a time. In playback mode, you can also erase selected pictures and customize playback features through the LCD screen menus. You can view your pictures on a television just as easily as on the camera's screen. This chapter explains the following:

- ▶ Using playback mode
- ▶ Playing back pictures one by one
- ▶ Playing back multiple pictures
- ▶ Playing pictures as a slide show
- ▶ Turning off picture information
- ▶ Erasing images
- ▶ Playing back pictures on TV

## Using the Playback Mode

When you use the LCD screen's playback mode, you don't have to have the camera's lens turned on. You can save battery power by turning off the lens before you switch to playback mode. Follow these steps:

- 1 Slide the screen mode switch to Playback. The last photo you took appears on the LCD screen.




- 2 To access the screen menus, press the SELECT button. Blue menu icons appear at the top of the screen with the currently selected menu displayed in orange.


The settings for this menu are displayed on the screen, as shown:









- 3 Press the  $\blacktriangleright/\blacktriangle$  and  $\blacktriangleleft/\blacktriangledown$  buttons to view the settings for other menus. The orange highlight indicates the currently selected menu.

You can choose from the following menus:

 Settings (date, time, beep, LCD brightness, and multi-frame period). See pages 8-8 to 8-11 for more information.

 Information (turn off the display of information on played-back pictures). See page 3-5 for instructions.

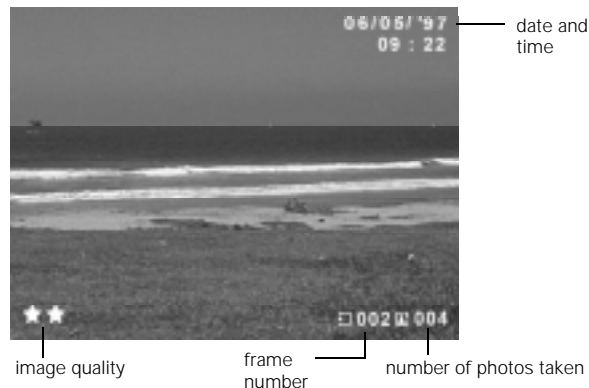
-  Playback Mode (one at a time or groups of 9 images). See page 3-4 for instructions.
-  Erase Photo (erase the currently displayed picture). See page 3-6 for instructions.
-  Photo Control (erase, lock, display memory information, or work with flash memory cards). See pages 3-6 to 3-11 and Chapter 10 for instructions.
-  Slide Show (play back pictures automatically). See page 3-5 for instructions.
-  Option Menu (install optional camera programs or print directly from the camera).
-  Language (select language for LCD display and menus). See page 1-12 for instructions.

- 4 To exit the menus, press the BACK button until the menu icons and settings disappear. (Depending on the menu, you may have to press this button several times to return to playback mode.)

- 5 When you're finished with playback mode, slide the screen switch OFF.

## Playing Back Pictures One by One

When you set the screen switch to Playback, you see the last picture you took on the LCD screen, along with the date, time, and picture information:



Press the ◀/▼ button to display the previous picture. You can continue pressing the button to view your pictures in order. Press ▶/▲ to move forward through your pictures.

## Playing Back Multiple Pictures



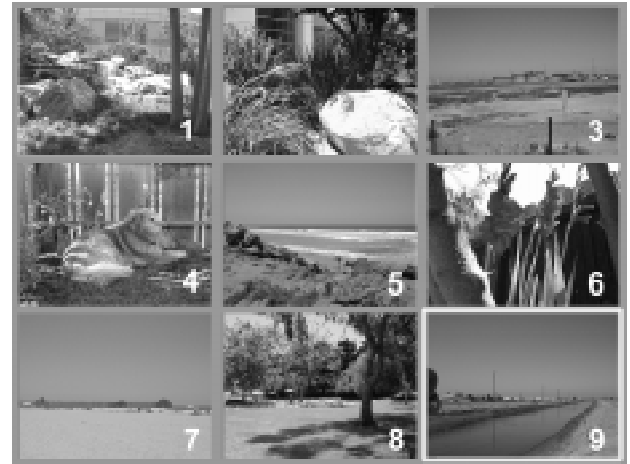
You can play back your pictures in Multi mode to view small “thumbnail” versions of nine pictures at once. Make sure the screen switch is set to Playback, and follow these steps:

- 1 Press the SELECT button to display the screen menus.
- 2 Press ►/▲ twice to display the Playback Mode menu.



- 3 Press the SELECT button again to choose the Multi setting, then press the BACK button to exit the menus.

Thumbnail images of the last photos you took appear on the screen, with the currently selected image framed in white.



- 4 Press the the ◀/▼ and ▶/▲ buttons to move the white selection frame through the images on screen. When the frame reaches the first or last photo of the current group, the previous or next group of up to nine images is displayed.

- 5 To switch back to displaying one picture at a time, follow steps 2 through 4 again, but choose the Normal setting on the Playback Mode menu.

## Playing Your Pictures as a Slide Show



You can use the LCD screen to display your pictures automatically. Make sure the screen switch is set to Playback, and follow these steps:

- 1 Press the SELECT button to display the LCD screen menus.
- 2 Press the ►/▲ or ◀/▼ button until you see the Slide Show option.

### Slide Show

- 3 Press the SELECT button again. The LCD screen begins playing back your pictures one by one.

To move forward or back through the photos manually, press the ►/▲ or ◀/▼ button. To pause the slide show at a particular photo, press the SELECT button. Press SELECT again to resume the slide show.

- 4 To stop the slide show, press the BACK button. Press BACK again to return to normal playback mode.

## Turning Off Picture Information



The LCD screen displays the time and date of each picture along with other information. You can turn off the information display if you want.

Make sure the screen switch is set to Playback, and follow these steps:

- 1 Press the SELECT button to display the LCD screen menus.

- 2 Press the ►/▲ or ◀/▼ button until you see the Information menu.



- 3 Press the SELECT button to turn information OFF. You can press it again to turn information back on.
- 4 To save your setting, press the BACK button.

You can also turn off information displayed in View mode. Set the screen switch to View and follow the steps above.

## Erasing Images

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 pictures for deletion or “lock” (protect) them from deletion

You can also erase photos through your software when the camera is connected to your computer. For instructions, see Chapters 4 and 5.

## Erasing the Currently Displayed Picture



Make sure the LCD screen is set to Playback and the image you want to erase is displayed. Then follow these steps:


- 1 Press the SELECT button to display the LCD screen menus.
- 2 Press the ►/▲ or ◀/▼ button until you see the Erase Photo option.



- 3 Press the SELECT button. A message appears asking you to confirm that you want to erase the image.
- 4 Press SELECT again to erase the image.
- 5 Press BACK to return to Playback mode.

---

**NOTE**

If you try to erase a locked photo , you see a warning message. Press the **BACK** button to exit the Erase Image menu. See pages 3-9 to 3-11 for instructions on locking and unlocking images in the camera.

---

## Selecting Pictures to Erase



You select pictures to erase using the Photo Control menu. You can either select individual pictures, or choose to erase all the pictures in the camera. Using the same menu, you can select pictures to lock (protect from erasing) or lock all pictures. See pages 3-9 to 3-11 for information about locking and unlocking pictures.

---

**TIP**

Before you start, set the playback mode to **Multi**. This makes it easier to select images.

---

Make sure the LCD screen is set to Playback, and follow these steps to erase pictures:

- 1 Press the **SELECT** button to display the LCD screen menus.
- 2 Press the **▶/▲** or **◀/▼** button until you see the Photo Control menu, then press the **SELECT** button to display the menu options:



- 3 Press the **SELECT** button to enter the Erase mode. The following menu is displayed:



- 4 Press the ►/▲ or ◀/▼ button to choose Select Photo or Erase All.
  - ▶ If you chose Erase All, press the SELECT button. A message appears asking you to confirm that you want to erase the photos. Press the SELECT button to erase the photos; or press the BACK button to return to the Photo Control menu without erasing the photos.
  - ▶ If you chose Select Photo, continue with step 5.
- 5 Press the SELECT button, then press the ►/▲ or ◀/▼ button to move through the images in the camera until the photo you want appears on the screen.
- 6 Press the SELECT button. An orange frame appears around the image. If you want to erase other photos at the same time, use the ►/▲ or ◀/▼ button to display them, then press the SELECT button to select them.

---

*NOTE*

*To cancel the selection of a photo, simply press the **SELECT** button again.*

---

- 7 When you have selected all the photos you want to erase, press the BACK button. A message appears asking you to confirm your selections.
  - 8 Press the SELECT button to erase the images and return to the Photo Control menu.
- 
- NOTE*
- If there are locked photos in your camera, a message appears on the screen before the confirmation message. Press the **SELECT** button to erase only the unlocked images from the camera.*
- 
- 9 Press BACK until you return to normal playback mode.



## Locking Photos

The lock feature allows you to keep your photos from being accidentally erased. You can lock selected photos or all the photos in the camera.

Make sure the LCD screen is set to Playback, then follow these steps to lock pictures:




- 1 Press the SELECT button to display the LCD screen menus.
- 2 Press the  $\blacktriangleright/\blacktriangle$  or  $\blacktriangleleft/\blacktriangledown$  button until you see the Photo Control menu, then press the SELECT button to display the menu options:



- 3 Press the  $\blacktriangleleft/\blacktriangledown$  button until the Lock mode is highlighted in orange, then press the SELECT button to enter the Lock mode. The following menu is displayed:



- 4 Press the  $\blacktriangleright/\blacktriangle$  or  $\blacktriangleleft/\blacktriangledown$  button to choose Select Photo or Lock All.
  - If you chose Lock All, press the SELECT button. A message appears asking you to confirm that you want to lock all the photos. Press the SELECT button to lock the photos. Then press the BACK button until you return to normal Playback mode.
  - If you chose Select Photo, continue with step 5.
- 5 Press the SELECT button, then press the  $\blacktriangleright/\blacktriangle$  or  $\blacktriangleleft/\blacktriangledown$  button to move through the images in the camera until the photo you want to lock appears on the screen.

- 6 Press the SELECT button. A lock icon  appears next to the frame number. If you want to lock other photos, use the /▲ or /▼ button to display them, then press the SELECT button to select them.

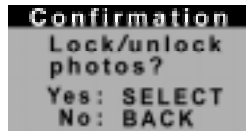
---

*NOTE*

*To cancel the selection of a photo, press the **SELECT** button again.*

---

- 7 When you have selected all the photos you want to lock, press the BACK button. The following message appears:





- 8 Press the SELECT button to lock the images.
- 9 Press BACK until you return to normal playback mode.

## Unlocking Photos

After you have locked some of your pictures, you can unlock selected photos or all the photos in the camera.

Make sure the LCD screen is set to Playback, then follow these steps to unlock pictures:

- 1 Press the SELECT button to display the LCD screen menus.
- 2 Press the /▲ or /▼ button until you see the Photo Control menu, then press the SELECT button to display the menu options:



- 3 Press the ◀/▼ button until the Lock mode is highlighted in orange, then press the SELECT button to enter the Lock mode. The following menu is displayed:



- 4 Press the ▶/▲ or ◀/▼ button to choose Select Photo or Unlock All.
- ▶ If you chose Unlock All, press the SELECT button. A message appears asking you to confirm that you want to unlock all the photos. Press the SELECT button to unlock the photos. Then press the BACK button until you return to normal playback mode.
  - ▶ If you chose Select Photo, continue with step 5.
- 5 Press the SELECT button, then press the ▶/▲ or ◀/▼ button to move through the images in the camera until the photo you want to unlock appears on the screen.

- 6 Press the SELECT button. The lock icon disappears from the screen. If you want to unlock other photos at the same time, use the ▶/▲ or ◀/▼ button to display them, then press the SELECT button to select them.

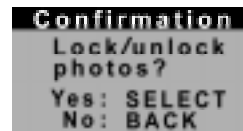
---

*NOTE*

*To cancel the selection of a photo, press the SELECT button again.*

---

- 7 When you have selected all the photos you want to unlock, press the BACK button. The following message appears:



- 8 Press the SELECT button to unlock the images.
- 9 Press BACK until you return to normal playback mode.

## Playing Back Pictures on TV

You can display your pictures on a regular television or VCR by using the video cable that came with your PhotoPC 600.

---

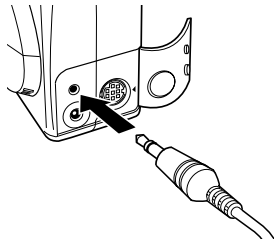
### TIP

You can videotape your pictures to share them without using a computer. After you connect the camera, press the Record button on your VCR and set the camera's LCD screen to **Slide Show**.

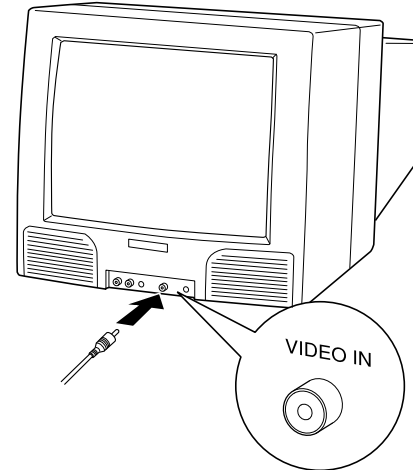
---

Follow these steps to play back your pictures on TV:

- 1 Make sure the camera and TV (and VCR) are turned off.
- 2 Open the camera's connector cover and connect the black end of the video cable to the Video Out port as shown:



- 3 Connect the yellow end of the cable to the video input port on the television or VCR:



- 4 Turn on the TV (and VCR) and switch to the correct video mode.
- 5 Slide the screen switch on your camera to Playback. The last picture you took appears on the TV screen. You can use all of the camera's playback features when your pictures are displayed on TV.

# 4

## Getting Photos Into Your Computer

**W**hen you're finished taking pictures, you can connect the camera to your computer and transfer the images. Then you can use the pictures in your letters, presentations, or just about anything you create on your computer. This chapter describes the following:

- ▶ Connecting the camera
- ▶ Transferring pictures with Image Expert
- ▶ Getting images into TWAIN applications
- ▶ Getting images that you can import

---

### NOTE

*If your computer has a Type II PCMCIA card slot, you can get pictures by copying them directly from a CompactFlash memory card. See Chapter 10 for instructions.*

---

### Connecting the Camera

Note the following before you start:

- ▶ If you have the optional AC adapter, you can conserve battery life by using it when you connect the camera to your computer. See page A-1 for instructions.  
The AC adapter should be available where you bought your PhotoPC 600. Or, see page A-2 for information on ordering an AC adapter through EPSON.
- ▶ The camera's auto shut-off feature takes place after 5 minutes of inactivity when the camera is connected to your computer. To turn the camera back on, close the lens cover and then open it again. (You can change the auto shut-off time period if you want. See pages 8-5 to 8-6 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

Make sure you have the serial cable that came with your camera. Before you start, turn off the camera, LCD screen, and your computer. Then follow these steps:

- 1 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) to connect your camera.

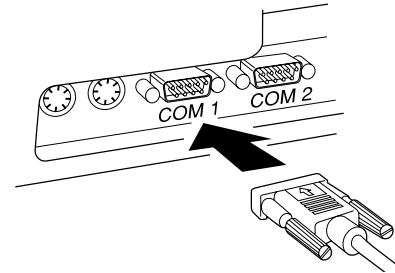
---

### NOTE

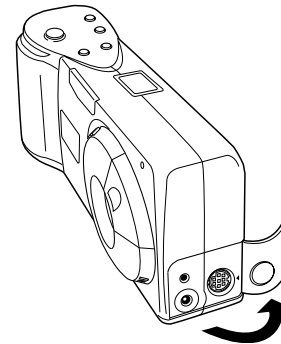
*If you have a 25-pin serial port, you can use a 9- to 25-pin adapter.*

---

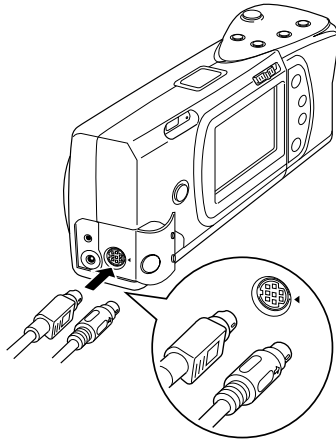
- 2 Line up the serial connector on the cable with one of the serial ports on your computer, and insert the connector. Then tighten the screws.



- 3 Open the connector cover on the side of the camera.





- Depending on the type of cable you have, line up either the arrow or the flat side of the cable connector with the mark on the camera's serial port. Then insert the connector.



- Turn on the camera and your computer system.

## Connecting to a Macintosh

Make sure you have the long serial cable and short Macintosh adapter that came with your camera. Before you start, turn off the camera, LCD screen, and your Macintosh. Then follow these steps:

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

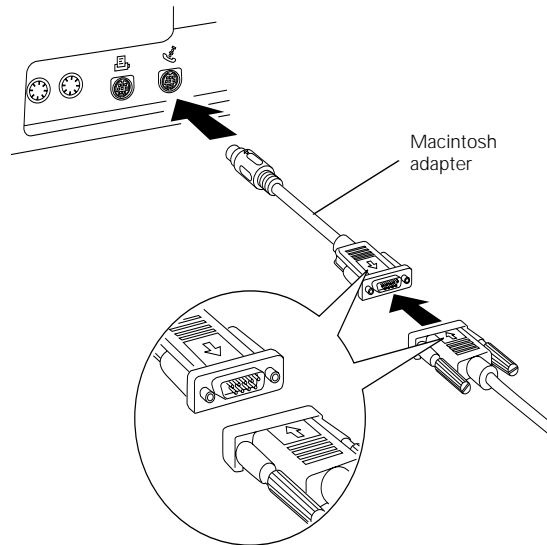
---

### NOTE

*If you are 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.*

---

- 2 Connect the long cable to the short Macintosh adapter cable, then tighten the screws.
- 3 With the arrow on the cable facing up, line up the cable connector with the port on your Macintosh. Then insert the connector.



- 4 Open the connector cover on the side of the camera, as shown on page 4-2.
- 5 Depending on the type of cable you have, line up either the arrow or the flat side of the cable connector with the mark on the camera's serial port (as shown on page 4-3). Then insert the connector.
- 6 Turn on the camera and your Macintosh system.

## Transferring Photos With Image Expert

PhotoPC 600 provides several different ways to transfer your pictures from the camera to your computer. The simplest method is to use the Image Expert software that came with your PhotoPC 600. This lets you view small thumbnail images of your pictures, and then quickly transfer them to an album (folder) on your hard disk drive.

If you haven't installed your software, do it now, following the instructions on page 1-10.



---

*NOTE*

*Although these instructions and the accompanying illustrations show Image Expert running under Windows 95, you can follow the same steps on a Macintosh, Windows 3.1, or Windows NT system.*

---

- 1 Start Image Expert. Under Windows 95, click Start, and then point to Programs, PhotoPC 600, Image Expert.

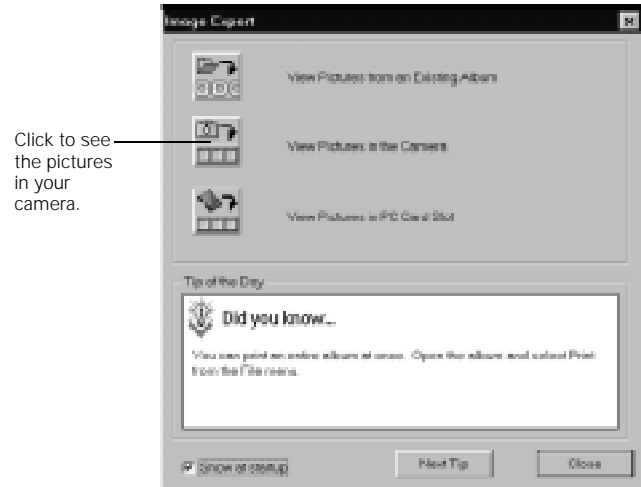
If you're using Windows 95, you see a Quick Tour screen like the following:



If you're using a Macintosh or a different version of Windows, skip to step 3.

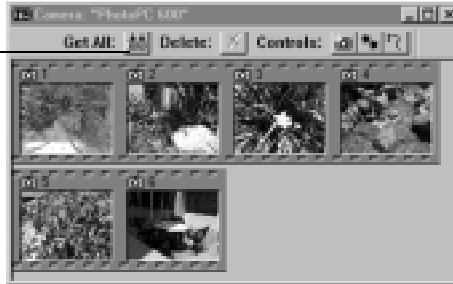
- 2 Click on any of the topics for an animated demonstration of what you can do with Image Expert and PhotoPC 600.

To skip the tour and transfer your pictures, click Close. You see a window like the following:



- 3 Click View Pictures in the Camera. You see a window displaying “filmstrips” of your images. (If you see an error message instead, follow the instructions on page 4-7.)

Click to start transferring your photos.



- 4 Click Get All to transfer all the images. You can also click an individual image to select it. The Get All button changes to Get Selected.

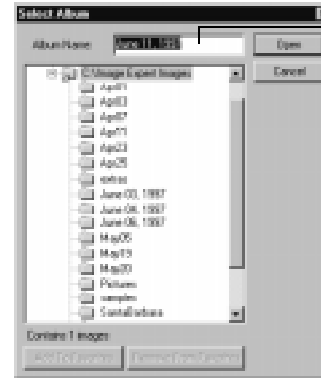
---

**NOTE**

If you want to select more than one image, hold down the **Shift** key while you click. To deselect, click another image.

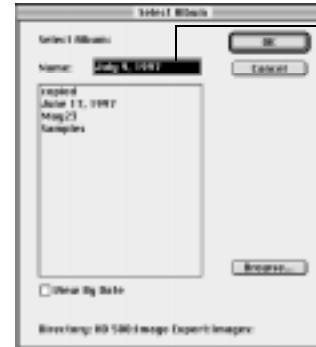
---

You see a Select Album window like the following:



Type here if you want to rename your album.

Windows

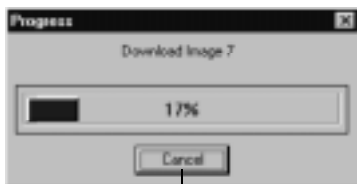


Type here if you want to rename your album.

Macintosh

Image Expert will automatically create an album (folder) for your pictures 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 pictures. A window like the following appears to show you the progress of each image.



Click if you want to stop transferring images.

- 6 When you're finished, close the filmstrip window. You see a message asking if you want to delete all the files in the camera.

- 7 If you want to make room for more pictures in your camera, click Yes. Your pictures are displayed in an album of thumbnails. You can double-click an image 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 the following chapters for instructions.

You can also use the Help menu for more information. If you're using Windows 95, you can run the Quick Tour from the Help menu to learn more about the camera and your software.

## What To Do if You See an Error Message

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



Follow these steps to get your camera connected correctly:

- 1 Make sure the camera is turned on and has not shut off automatically. If it has, turn it off and then back on again by closing and opening the lens cover.
- 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 Setup.

You see the following dialog box:



- 5 Select another port if necessary. In most cases, it is 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.

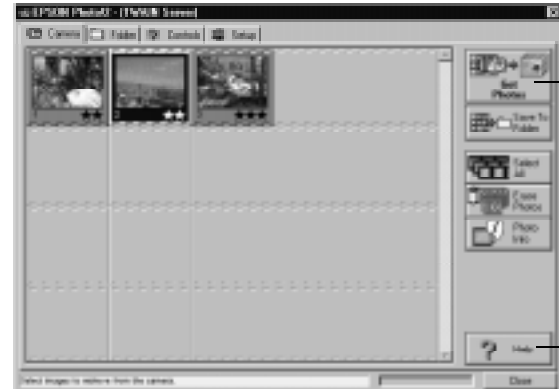
- 6 Select a slower speed. Image Expert automatically chooses the fastest speed that works with your system, but this may actually be too fast for the configuration of your port. Try setting the speed to 57600. You may need to experiment to choose the best speed.
- 7 When you are finished, click OK.

## Getting Images Into TWAIN Applications

If you use Photoshop® or other TWAIN-compliant applications, you can transfer your pictures directly into your program from the camera. Follow these steps:

- 1 Start your application.
- 2 Choose Import, then Select TWAIN Source (or Acquire, then TWAIN Select Source) from the File menu.
- 3 Choose PhotoPC 600 as the TWAIN source.
- 4 Choose Import, then TWAIN (or Acquire, then TWAIN Acquire) from the File menu.

- 5 The EPSON Photo!2 screen appears, with “thumbnail” images of your pictures, as shown below. (If you see a Setup screen that says The Camera Is Not Responding, see page 4-12.)



Click to transfer your picture(s).

Click if you need help.

- 6 Select the picture you want and click Get Photos to transfer the picture. Or, click Select All to transfer all the pictures.
- 7 Click Erase Photos if you want to remove the pictures from your camera.
- 8 If necessary, click Close to exit the Photo!2 screen and return to your application.

You see the picture or pictures in the work area.

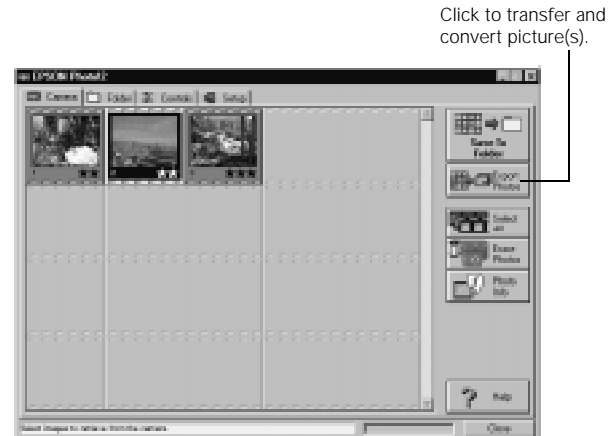
## Getting Images That You Can Import

Most methods of transferring images from the camera save your pictures as JPEG files. If your word processor or other application doesn't support the JPEG format, you have to convert the files one by one. Or, you can use the export feature of EPSON Photo!2 to automatically convert the files as you transfer them.

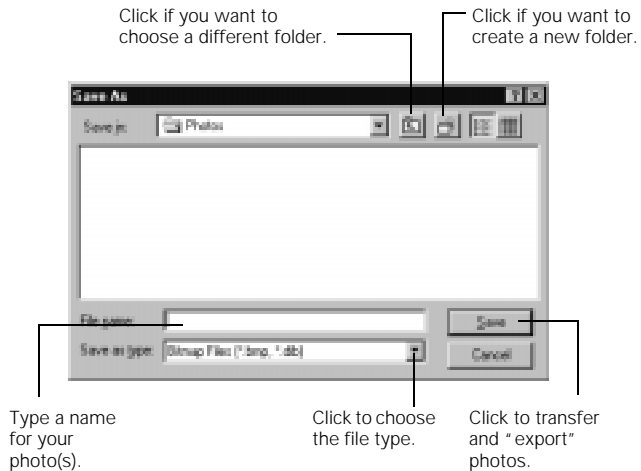
Follow these steps to transfer and export your pictures with EPSON Photo!2:

- 1 Start your EPSON Photo!2 software. Under Windows 95, click Start, and then point to Programs, PhotoPC 600, EPSON Photo!2.

You see a screen like the one below. (If you see a Setup screen that says The Camera Is Not Responding, see page 4-12.)



- 2 Click the picture you want, or click Select All.
- 3 Click the Export Photos button. The Save As dialog box appears:



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

- 5 Select the file type from the pull-down menu. You can choose any of the following 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!2. Use Image Expert to view and edit the exported images.*

---

- 7 Click Erase Photos if you want to remove the pictures from your camera.

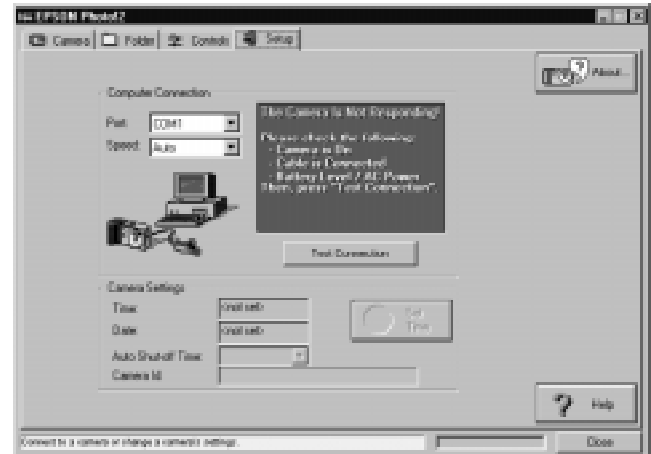
Here are some of the additional things you can do with EPSON Photo!2:

- ▶ Select a picture and click Photo Info to display the image's resolution and other settings, along with the date and time it was captured.
  - ▶ Select the Folder tab and click Browse to locate and display pictures you have downloaded. You can then select a picture and click Upload Photos to transfer a picture from your computer to the camera or an optional memory card. See Chapter 9 for more information.
  - ▶ Select the Controls tab to change camera settings or view a live preview and take pictures from your computer. See page 8-4 for more information.
  - ▶ Select the Setup tab to set the camera's date and time, or change your computer connection settings. See pages 8-7 to 8-8 for more information.
- 8 Click Close to exit EPSON Photo!2.

You can now insert your pictures in documents and other projects. For instructions, see page 5-2.

## What To Do If the Camera Is Not Responding

When you try to acquire pictures from the camera or start the EPSON Photo!2 application, you may see a screen like the following:





Follow these steps to fix your camera connection:

- 1 Make sure the camera is turned on and has not shut off automatically. If it has, turn it off and then back on again by closing and opening the lens cover.
- 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 Test Connection. If you see the same screen, continue with step 5.
- 5 Select another port if necessary. In most cases, it is best to leave the Port setting at Auto because EPSON Photo!2 can detect the camera connection automatically.
- 6 Select a slower speed. EPSON Photo!2 automatically chooses 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.
- 7 Click Test Connection again. If you still don't see your pictures, see Chapter 11 for more troubleshooting tips.

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

# 5

## Getting Your Photos Into Documents

5

**Gardening Monthly**  
November 1998

**Cactus Fever**  
Focus on Echinocactus

Large, round or cylindrical cacti with deep accordionlike ribbing and prominent spines comprise this group of Mexican and Southwestern U.S. natives. They vary in size and shape, but all are easy to grow and can reach 10 ft. tall and wide. Spring and summer flowers bloom in pink or yellow in a circle at the plant's crown. Don't plant where children are present.



**Sunflowers**

Sunflowers are big-leaved, sturdy plants that need full sun and moist soils. Seeds attract birds. Perennial species grow rapidly, forming sizable clumps that can become invasive. Plant in large gardens or parks. Start by division or seed. All bloom in late summer and fall.



**Recipe of the Month**

**Grilled Cactus Pads**  
\* 1 pound cactus leaves \* Olive Oil

This is an interesting treat for a cookout. Scrub cactus leaves well with a vegetable scrubber to remove any spines that may be on them. With the end of a paring peeler or around the spiny nodules and remove them. Make sure that all are removed. Grill the leaves over charcoal or wood fire for 10 to 12 minutes on each side. Thicker leaves may take slightly longer to grill. Brush leaves with oil occasionally while grilling. Serve hot.

**New Next Month**  
**Orchid Mania**

Landscaping	Page 2
Balls	Page 3
Book Reviews	Page 4
Seeds	Page 5
Supplies	Page 6

This print sample was created using actual 1024x768 pixel images taken with the EPSON PhotoPC 600 XGA color digital camera. It was printed with the EPSON Stylus Color 600 printer at 1440 dpi on EPSON Photo Quality Glossy Paper.

PhotoPC 600 provides several methods for getting your pictures into presentations, letters, 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. If you're using Windows 95, 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

---

*NOTE*

*Although most of the instructions and illustrations in this chapter apply to Windows 95, you can follow the same steps on a Macintosh or a different version of Windows.*

---

## 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 on page 4-10) and your application can't import JPEG files. You can use the Save As feature of Image Expert to convert image files.

---

*NOTE*

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

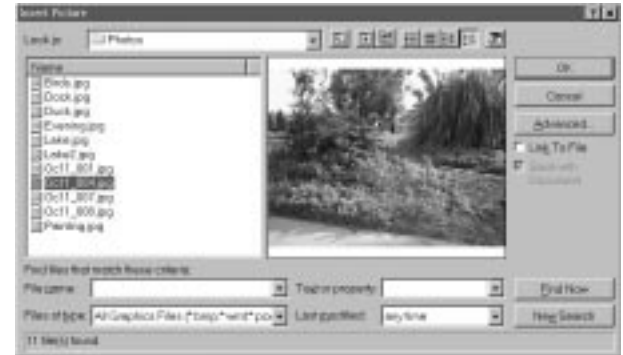
---

Follow these steps to import a PhotoPC 600 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.
- 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:



- 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

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

---

## Getting Images With Copy and Paste

You can use this method to place a picture in just about any type of document or project. Follow these steps:

- 1 Open your picture in Image Expert.
- 2 Click the Copy button or select Copy from the Edit menu.
- 3 Start your word processor or other application.
- 4 Open the document where you want to use the picture.
- 5 Choose Paste (or Paste Special) from the 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 pictures 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,<sup>®</sup> PowerPoint,<sup>®</sup> WordPerfect,<sup>®</sup> or Lotus SmartSuite.<sup>®</sup> 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 in Chapter 4.
- 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 the album name to open it.
- 4 Start your word processor or other application.

- 5 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:



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

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

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

## Getting Images With the Camio Viewer (Windows 95)

The Camio Viewer, which runs only under Windows 95, 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 under Windows 95.*

---

First you need to connect the camera to your computer as described in Chapter 4. Then follow these steps:

- 1 Double-click the camera icon  on the right end of your Windows 95 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 will be embedded in your document, and will not be available as a separate file.)

- ▶ Copy all images from the Camera to the Computer  
Transfers your pictures to an album (folder) on your hard disk 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 disk 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.

## To Drag and Drop 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 from the camera, and it appears in your document.

If you want to edit or modify the picture, just double-click it 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.*

---



## To Transfer Images Before Placing Them

Follow these steps if you chose Copy all images:

- 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.

# 6

## Working With Photos and Albums

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**Y**ou can use Image Expert albums to organize your pictures and display or print them in various ways. On Windows systems, you can also copy an album to diskette, and use your own pictures as your screen saver or desktop wallpaper. You may even be able to e-mail a picture directly from Image Expert. This chapter covers the following:

- ▶ Using albums to display and organize pictures
- ▶ Viewing picture information
- ▶ Printing photos and albums
- ▶ Displaying albums as slide shows (Windows only)
- ▶ Copying albums to diskette (Windows 95 only)
- ▶ Creating a screen saver or wallpaper from your photos (Windows only)
- ▶ Sending pictures by e-mail (Windows 95 only)

## Using Albums

Image Expert albums provide a convenient way to access and view your pictures.




Here are some of the things you can do with albums:

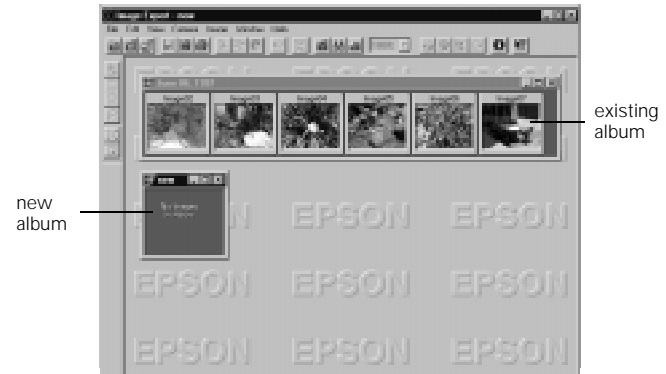
- ▶ Use the Edit menu to rename or delete an album.
- ▶ Add or remove pictures by moving them to or from another album.
- ▶ Change a picture's name by clicking on it and typing a new name.
- ▶ Rearrange an album by selecting Sort By Name or Sort By Date from the View menu.

## Organizing Pictures in Albums

Although Image Expert initially sorts your pictures by date, you can easily drag and drop images between albums to organize them by subject matter or in any way you want.

Follow these steps to copy or move images from one album to another:

- 1 Open the album where the pictures are located and the album you want to copy the images to. If you want to create a new album, click the New Album button  or select New Album from the File menu.




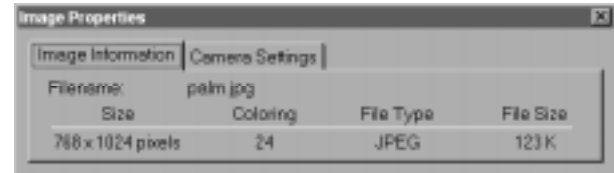
- 2 Select the image or images you want to move or copy. Hold down the Ctrl (Option on Macintosh) or Shift key to select multiple images.
- 3 To copy images, click inside one of the selected images and hold down the mouse button.  
  
To move images, click inside one of the selected images, hold down the mouse button, and hold down the Shift key.
- 4 While holding down the mouse (and Shift key), drag the image(s) to the other album until it is highlighted.
- 5 Let go of the mouse button (and key).

The images are copied or moved to the album. You can sort the pictures and save or rename the new album.

## Viewing Picture Information

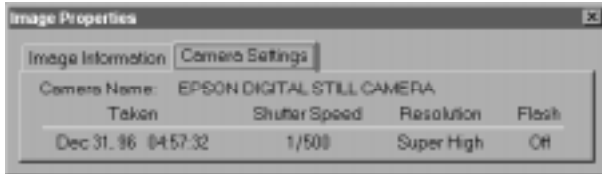
You can display information about any image file and the camera settings that were used to capture it. Follow these steps:

- 1 Click the picture to select it or open the image by double-clicking it.
- 2 Click the Properties button  or select Properties from the Image menu. You see information like the following:



All PhotoPC 600 images are captured as 24-bit JPEG files, including monochrome images.


- 3 Click the Camera Settings tab to display information like the following:



- 4 Click another image to view its information, or close the Properties box.

## Printing an Image


You can print your picture enlarged or actual size, and add a title or footer to the page. Follow these steps:

- 1 Open the image you want to print.
- 2 Click the Page Setup button  or choose Page Setup from the file menu.

The Page Setup dialog box appears:




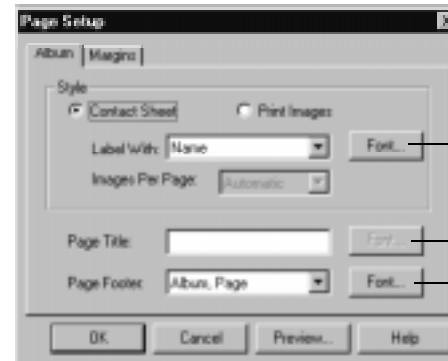
Click to see how your page will look.

- 3 Set any of the following options and click OK:
  - ▶ Click Fit to Page if you want to stretch your picture to fill the page. Your image may lose detail if you make it too large.
  - ▶ Type in a title for the top of the page. Click the Font button to change the font properties.
  - ▶ Choose what you want to appear at the bottom of the page from the Page Footer list.
  - ▶ If you want to change the position of your picture on the page, click the Margins tab and enter new values for the margins.
  - ▶ Click Preview to see what your printout will look like.
- 4 Click the Print button  or choose Print from the File menu to print out your picture.

## Printing an Album

You can print a contact sheet containing thumbnail images of all the pictures in your album, or you can set the number of pictures printed on each page. You can also add a page title or footer, and print identifying information for each picture. Follow these steps:

- 1 Open the album you want to print.
- 2 Click the Page Setup button  or choose Page Setup from the file menu. The album Page Setup dialog box appears:



Click to set font for labels, title, or footer.


3 Set any of the following options and click OK:

- Choose Print Contact Sheet or Print Images.

For a Contact Sheet, Image Expert prints your pictures at thumbnail size and fits as many as possible on the page.

If you choose Print Images, you can set the number of images you want printed on each page.

- Select a label for the images. You can select from combinations of name, date, and time, or select none.
- Type in a title for the top of the page.
- Choose what you want to appear at the bottom of the page from the Page Footer list.
- If you want to change the position of your picture on the page, click the Margins tab and enter new values for the margins.
- Click Preview to see what your printout will look like.

4 Click the Print button  or choose Print from the File menu to print out your picture.


## Additional Options for Windows

If you're using Windows, you can take advantage of the following additional options for working with your albums and images:

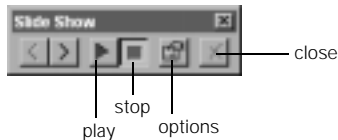
- Displaying albums as slide shows
- Copying an album or image to a diskette (Windows 95 only)
- Setting an album as your screen saver (Windows 95 only)
- Setting an image as your desktop wallpaper
- Sending an image or album by e-mail directly from Image Expert (Windows 95 only)

## Displaying Albums as Slide Shows

When you display an album as a slide show, you can have it play automatically with various transition effects between images. Follow these steps:

- 1 Open your album.
- 2 Click the Slide Show button  or select Slide Show from the View menu.

The first image appears on your screen with the slide show controls, as shown:



- 3 Click the Play button to see the slide show.

- 4 If you want to change the appearance of your slide show, click the Options button. The Slide Show Options dialog box appears:



- 5 Set any of the following options and click OK:
  - ▶ To stretch your pictures across the whole screen, click Fit to Screen.
  - ▶ To change the display period for each picture, change the number in the Seconds Between Pictures box.



- ▶ To play the slide show only once, click Continuous Repeat to deselect it.
  - ▶ To hide the titles of your pictures, click Show Titles to deselect it.
  - ▶ To turn off the fades and dissolves that play between pictures, click Show Transition Effects to deselect it.
- 6 Click the Exit button to stop the slide show.

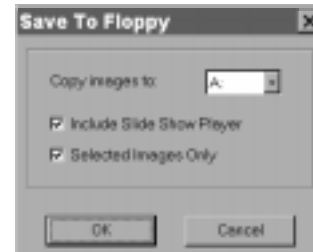
## Copying to Diskette

You can copy whole albums or individual images to diskettes. You can also include a player, so your friends and business associates can view your pictures on their computers. This makes your images and albums completely portable. Follow these steps:

- 1 Insert a diskette into your diskette drive.
- 2 Open the album you want to copy.

If you only want to include some of your images, select the images you want to add. To select more than one image, hold down the Ctrl or Shift key.

- 3 Select Save to Floppy from the File menu. You see the following dialog box:



- 4 Make sure your floppy drive appears in the Copy images to: box.
- 5 If you want to include a slide show player to view the pictures make sure Include Slide Show Player is checked.

- 6 If you want to copy the whole album click Selected Images Only to deselect it.

---

**NOTE**

*If your album is too large for one diskette, you can copy it to multiple diskettes. When you copy the files to another computer, the album will be in one piece again. You can also use Zip™ disks or other large-format storage media. Make sure your diskette is not write-protected before you try to copy.*

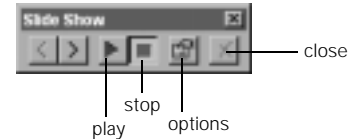
---

- 7 Click OK to copy your files.

### Viewing the Pictures on Diskette

You can run the slide show from the diskette or install the slide show player on another computer.

- ▶ To run the slide show, double-click the player. The pictures appear on your screen with the slide show controls, as shown on the right.



See page 6-7 for instructions on setting slide show options.

- ▶ To install the player, double-click the installer icon and follow the instructions on the screen.

### Using an Album as a Screen Saver

It's easy to make your own screen saver with your favorite pictures. Follow these steps:

- 1 Open the album you want to use.
- 2 Choose Set Screen Saver from the File menu. Image Expert asks you to confirm your choice.

### 3 Click Yes.

Windows will play a slide show of your album whenever your system is idle.

---

#### NOTE

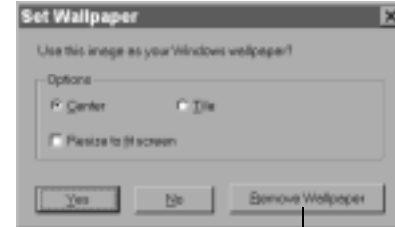
*The screen saver slide show doesn't include controls. If you want to change the way your pictures are displayed, you have to use the screen saver settings in your Control Panel. See your Windows documentation or Help system for more information.*

---

## Setting an Image as Wallpaper

You can use one of your own pictures as the background for your desktop. Follow these steps:

- 1 Open the image you want to use, or select it in an album.
- 2 Choose Set As Wallpaper from the File menu. The dialog box on the right appears.



Click to remove existing wallpaper.

- 3 Choose Center to place your picture in the middle of the screen or Tile to fill the screen with copies of your picture.
- 4 If you want the image to be stretched across the whole screen, click Resize to fit screen.
- 5 Click Yes. (If you change your mind, click Remove Wallpaper.)

You can minimize Image Expert to see your new wallpaper.

## Sending Pictures by E-mail

You can send a picture directly from Image Expert if your e-mail application complies with the MAPI (messaging application programming interface) standard. For example, you can use Inbox or Microsoft Exchange. You need to set up Microsoft Exchange to work with your Internet service.

---

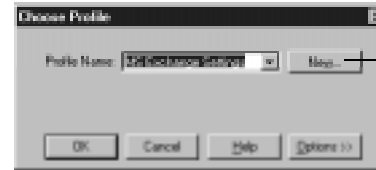
### NOTE

*If you can't e-mail pictures directly from Image Expert, you can always send an e-mail message as you do normally and attach one or more image files.*

---

Before you start, make sure your modem and Internet service are working correctly and your e-mail application is configured. Then follow these steps:

- 1 Select or open the image(s) you want to send. Some e-mail systems may limit the number of images you can send in a single message.
- 2 Choose Send from the file menu. You see the Choose Profile dialog box on the right.



Click to configure your Internet service for Microsoft Exchange.

- 3 Choose the profile you want to use.  
Click New if your Internet service has not been set up to work with Microsoft Exchange. For more information about setting up Microsoft Exchange, see your Windows documentation or help system.
- 4 Click OK. Your e-mail application opens, and the image(s) you selected appear as attachments.
- 5 Type the e-mail address where you're sending the picture(s). You can also type in a subject heading and message if you want.
- 6 When your e-mail is ready, click whatever button your application uses to send. The picture(s) are mailed. Your e-mail application closes, and Image Expert becomes active again.

# 7

## Editing Images



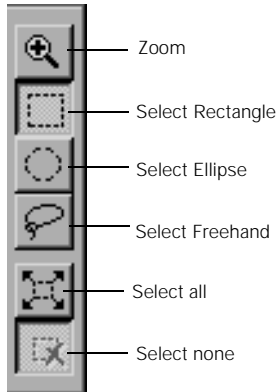
You can edit your images to enhance their appearance, crop, rotate, and resize them, or create special effects. This chapter describes the following Image Expert features you can use to modify your images:

- ▶ Viewing and selecting
- ▶ Applying Quick Fix
- ▶ Correcting
- ▶ Cropping
- ▶ Resizing and changing resolution
- ▶ Rotating
- ▶ Flipping
- ▶ Applying special effects
- ▶ Changing the number of colors

## Viewing and Selecting

When your image is displayed in an album, you can rotate it or do a quick fix. However, to use any other editing features, you need to open the image by double-clicking it or selecting Open Image from the File menu.

Before you edit your image, you may want to use the Zoom and selection tools on the left side of your screen.



- ▶ Click the Zoom tool, and then click anywhere on your image to enlarge your view. Hold down the Ctrl key and click to zoom out.
- ▶ Use one of the three selection tools to isolate a part of your image before you edit it. Click the tool, then click and drag on your image to select the portion you want to work on.
- ▶ Click Select All to select your entire image or all the images in an album.
- ▶ Click Select None to deselect your image or images.


---

### NOTE

*For more information about any of the editing tools described in this chapter, use the Help menu.*


---

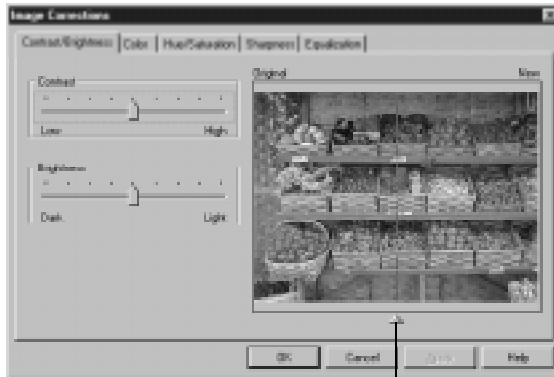
## Applying Quick Fix

The easiest way to improve your image is to have Image Expert automatically “correct” it with the Quick Fix command. You can click the Quick Fix tool  or select Quick Fix from the Image menu.

If you don't like the results, simply select **Undo Quick Fix** from the **Edit** menu. (If you **Quick Fix** an image displayed in an album, you can't undo it.)

## Correcting

To fine-tune an image, click the **Corrections** tool  or choose **Corrections** from the **Image** menu. You see a dialog box like the following:



Click and drag to adjust the division between the original and edited preview.

Click the tabs at the top of the screen to make these kinds of corrections:

- ▶ **Brightness and Contrast**  
For adjusting the amount of light in your image and the difference between light and dark areas.
- ▶ **Color**  
For correcting color casts and adjusting the balance of cyan (blue), magenta (red), and yellow in your picture.
- ▶ **Hue/Saturation**  
For adjusting colors around the “color wheel,” the strength or purity of color, and the brightness of your image.
- ▶ **Sharpness**  
For emphasizing or de-emphasizing edges.
- ▶ **Equalization**  
For increasing detail in dark areas of your image.

Each dialog box “tab” includes sliders for quickly and easily correcting your image. Simply move the slide indicator left or right to make your edit.

The preview window shows your image with the original view on the left and the corrected image on the right. If you want to adjust the division between the original and edited image, click and drag the triangle below the image. You can also zoom in on your image to see more detail.

- ▶ Click **Apply** to make your changes on the current “tab.” Your edited image becomes your new original and the slide indicators move to the center of the range.
- ▶ Click **OK** to save the changes you made on all the Corrections tabs and return to the main screen.
- ▶ Click **Cancel** to cancel the changes on the current tab and return to the main screen.

## Cropping


If you want to save only part of your image, use the crop function to cut out the rest of the image. Follow these steps:

- 1 Open the image you want to modify.
- 2 Click one of the selection tools on the left side of your screen.

- 3 Click and drag the mouse over the area you want to save. A dashed border indicates the area you selected.



selected area

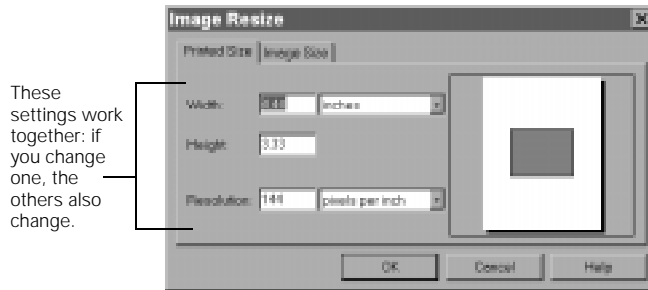
- 4 If you change your mind about which part of the image to crop, simply click anywhere in the image and repeat step 3.
- 5 Click the **Crop tool**  or choose **Crop** from the Image menu. The part of the image that was outside the dashed line disappears.



## Resizing and Changing Resolution

You can resize your image in two ways: changing the printed size, or changing the image size in pixels. You can also change the resolution or image quality.

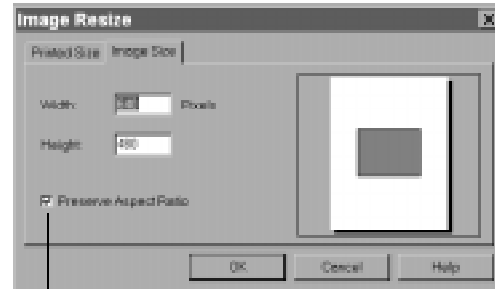
Choose Resize from the Image menu. You see a dialog box like the following:



### NOTE

*Fine and super fine images from your PhotoPC 600 have a resolution of 240 pixels per inch; standard quality images have a resolution of 144 pixels per inch.*

Click the tab if you want to change the image size in pixels. You see a dialog box like the following:




If you change the size of the image in pixels, the physical size of the image also changes, but not the resolution. Follow these guidelines when you resize:

- ▶ To enlarge your picture and retain its quality, increase the image size in pixels until the rectangle in the preview window looks the right size. The file size of your image will increase at the same time.

- ▶ To make an image smaller, you can simply change its physical size. The resolution automatically increases.

## Rotating

You can click the Rotate tool  to quickly rotate a picture to the right. (If you rotate an image displayed in an album, you can't undo it.)

For more options, select Rotate from the Image menu. You can choose one of the following:

- ▶ Left (90 degrees counterclockwise)
- ▶ Right (90 degrees clockwise)
- ▶ Exact (specify the degree of rotation)
- ▶ Free (interactive rotation, as described below)

If you want to experiment with rotation, choose Free and follow these steps:

- 1 Click on your image and hold down the mouse. Your pointer turns into the rotation tool.

A rectangular outline of your image and an arrow appear, as shown:



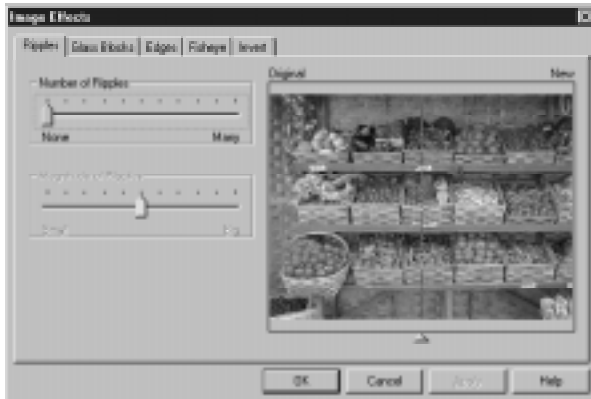
- 2 Move the pointer to rotate your image.
- 3 Release the mouse when your picture is at the angle you want.

## Flipping

You can reverse your image by selecting Flip Horizontal from the Image menu. This is useful for printing T-shirt transfers. Select Flip Vertical to turn your image upside down.

## Applying Special Effects

To transform or distort your images in interesting ways, choose Effects from the Image menu. You see a dialog box like the following:



Click the tabs at the top of the screen to add these effects:

- ▶ **Ripples**  
For an underwater effect. You can create whirlpool effects or just a slight distortion.
- ▶ **Glass blocks**  
You can change the number and size of the blocks.
- ▶ **Edges**  
To soften outlines and decrease the amount of details. You can also blend the image into a light or dark background.
- ▶ **Fisheye**  
To distort the center of the image, as if looking through a glass ball.
- ▶ **Invert**  
To create a negative of your image.

Each dialog box “tab” includes sliders for applying the effect. Slide the indicator to the right to increase the distortion. You can combine several filters for even more unusual effects.

The preview window shows your image with the original view on the left and the distorted image on the right. If you want to adjust the division between the original and filtered image, click and drag the triangle below the image. You can also zoom in on your image to see more detail.

- ▶ Click **Apply** to make your changes on the current “tab.” Your distorted image becomes your new original and the slide indicators move to the center of the range.
- ▶ Click **OK** to save the changes you made on all the **Effects** tabs and return to the main workspace.
- ▶ Click **Cancel** to cancel the changes on the current tab and return to the main workspace.

## Changing the Number of Colors

To convert the color format of your image, select **Number of Colors** from the **Image** menu. You can choose from the following:

- ▶ **24 Bit (Millions of Colors)**  
The way your images are originally captured.
- ▶ **8 Bit (256 Colors)**  
For low-resolution display systems or certain types of software.
- ▶ **Grayscale (256 Shades of Gray)**  
For printing in black and white.

If you save your image as 8 Bit or Grayscale, you cannot switch back to 24 Bit color.

Unlike the other editing options, changing the number of colors applies to the whole image. You can't change the number of colors for a selected area only.

# 8

## Using Custom and Advanced Features

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. To further customize your camera's operation, you can use the Camera Settings menus on the LCD screen. You can even install optional programs in your camera to add new functions, such as printing directly from the camera.

This chapter covers the following:

- ▶ Taking pictures from your computer
- ▶ Adjusting camera settings from your computer

- ▶ Customizing settings with the LCD screen
- ▶ Uploading programs into the camera

---

### NOTE

*You can use either Image Expert or EPSON Photo!2 to take pictures from your computer, adjust camera settings, and transfer images. PhotoPC 600 allows you to choose the application that best meets your needs and preferences.*

---

### Taking Pictures From Your Computer

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 all the camera settings from your computer, and even set the shutter speed.


---

**NOTE**

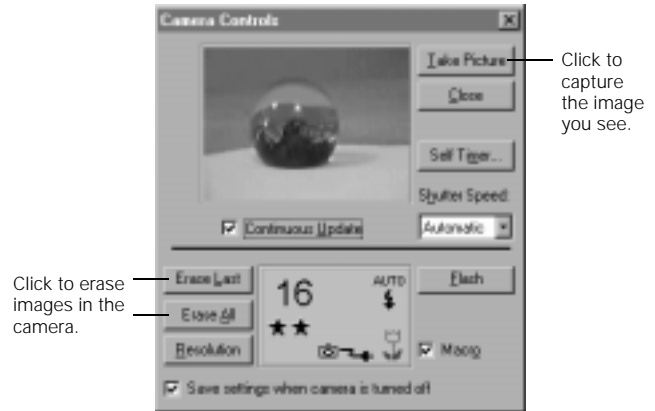
If you have the optional AC adapter, you can save on batteries by using it when you connect the camera to your computer. The AC adapter should be available where you bought your PhotoPC 600, or you can order it from EPSON. See page A-1 for more information.

---

Follow these steps to take pictures from your computer:

- 1 Connect the camera to your computer as described in Chapter 4.
- 2 Position the camera facing the subject. Using a tripod will give you the most control when setting up your shots. See page A-3 for instructions.
- 3 Turn on both your camera and your computer system.
- 4 Start Image Expert as described on page 4-4.
- 5 Click the Camera Controls button  or choose Controls from the Camera menu.

You see a dialog box like the following:



---

**NOTE**

The camera's auto shut-off feature remains in effect when the camera is connected to your computer, but it takes place after 5 minutes of inactivity. To turn the camera back on, close the lens cover and then open it again.

---

- 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.

The colors in your live preview image may appear pale and washed-out. This will not affect the colors in your actual photograph.

You can click the Flash, Resolution, and Macro buttons on the screen to adjust these settings just as you would by using the buttons on the camera. For more information, 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 will quickly drain your batteries. Make sure you turn it off as soon as you're finished.*

---

## 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 99-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 beeps and processes your picture.

## Setting the Shutter Speed

Most of the time, PhotoPC 600 adjusts the shutter speed automatically. However, when you take pictures from your computer, you can adjust the speed manually. This lets you use special lighting effects and even take “stop-action” photos.

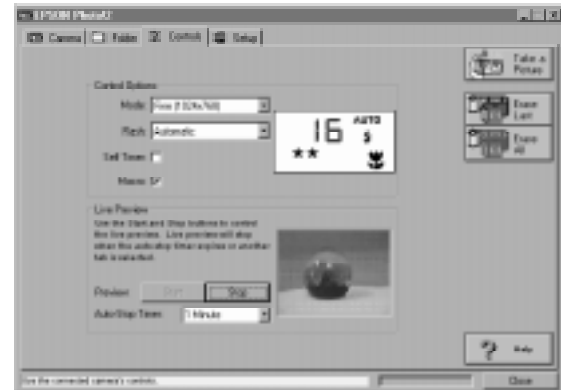
On the Camera Controls window, click the arrow and select the speed you want from the pull-down list.

## Taking Pictures with EPSON Photo!2

You can use your EPSON Photo!2 application to take pictures from your computer, in the same way as Image Expert.

First, follow steps 1 through 3 on page 8-2. Then follow these steps:

- 1 Start EPSON Photo!2 as described on page 4-10.
- 2 Click the Controls tab. You see a dialog box like the following:





- 3 Click Start to display the live preview.

You can click the Mode, Flash, Self Timer, and Macro buttons on the screen to adjust these settings just as you would by using the buttons on the camera. For more information, see Chapter 2.

- 4 When your shot is ready, click Take a Picture. The image is captured and processed.
- 5 Click Close when you're finished taking pictures from your computer.

The AutoStop Timer shuts off live preview after one minute to save battery power. You can set the timer from 30 seconds to 5 minutes.

## Adjusting Camera Settings From Your Computer

You can use either Image Expert or EPSON Photo!2 to change the following camera settings:

- Time
- Date
- Power down time (Auto Shutoff)
- Camera ID
- Connection Port
- Connection Speed

## Changing Settings With Image Expert

In Image Expert, you can change settings when you are viewing pictures in the camera. Follow these steps:

- 1 Connect the camera to your computer as described in Chapter 4.
- 2 Turn on both your camera and your computer system.

- 3 Start Image Expert as described on page 4-4.
- 4 Click the Camera Setup button to display the Camera Setup dialog box, as shown below:



- ▶ 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.
- ▶ Type in the Computer Time and Camera Time boxes to change the time and date of either one. Or, click Set Camera to Computer Time to have your camera automatically synchronized to your computer.

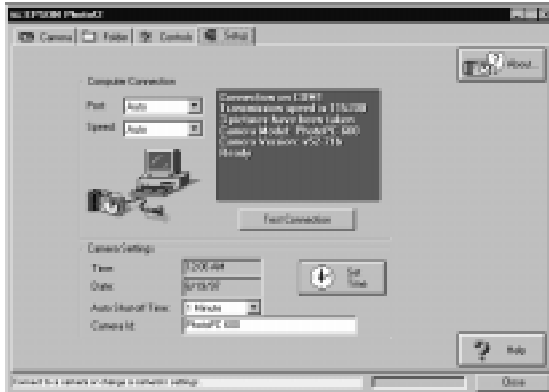
- ▶ Enter new values in either of the Power Down Time boxes if you want to change the camera's automatic shut-off period.
- ▶ If you want to adjust your port settings, click the Camera Connection button. You see the Connection dialog box:



- ▶ Select another port if you want to change your connection. In most cases, it is best to leave the Port setting at Auto because Image Expert can detect the camera connection automatically.
- ▶ 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.

## Changing Settings With EPSON Photo!2

When you're using your camera with EPSON Photo!2, you can click the Setup tab to display the following dialog box:



You can change the Computer Connection settings as described on the right and then click the Test Connection button.

- ▶ Select another port if you want to change your connection. In most cases, it is best to leave the Port setting at Auto because EPSON Photo!2 can detect the camera connection automatically.
- ▶ Select a different communication speed. EPSON Photo!2 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.
- ▶ Click Test Connection to make sure your new settings work with your system.
- ▶ 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.

- ▶ Enter a new Auto Shut-off Time if you want to change this setting. This is the idle period after which the camera turns off automatically when it is not connected to your computer. (If you set a power-down time in Image Expert, it overrides the auto shut-off time setting in EPSON Photo!2.)
- ▶ 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.

## Customizing Settings With the LCD Screen

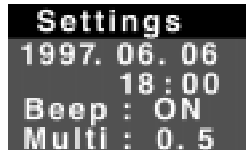


In addition to using your computer to customize camera settings, you can use the LCD screen Settings menu. This gives you another way to set the camera's date and time. You can also turn the alert beep off, adjust the LCD brightness level, and set the shooting time for multi-frame photos. (See page 2-12 for details on the multi-frame photo format.)

Follow these steps to access the Settings menu:

- 1 Set the screen switch to View or Playback.
- 2 Press the SELECT button to display the LCD screen menus.

- 3 Press the **▶/▲** or **◀/▼** button until you see the Settings menu:



- 4 Follow the instructions below for the settings you want to change.
- 5 When you're finished adjusting settings, press the BACK button to return to normal playback or view mode.

## Setting the Camera Clock

Follow these steps to set the date (year, month, day) and the time (hour and minute).

- 1 With the Settings menu selected, press the SELECT button. Icons for each setting appear on the screen, with the clock icon highlighted in orange:



- 2 Press SELECT again to enter the clock setting mode.
- 3 Press the **▶/▲** or **◀/▼** button to select the portion of the time or date you want to adjust. The selected item turns orange.
- 4 Press the SELECT button again; the item turns red.

- 5 Press the ►/▲ button to increase the number, or the ◀/▼ button to decrease the number, until the item you want to adjust is correct. Then press the BACK button to save the setting. The item turns orange.
- 6 Repeat steps 3 to 5 until the date and time are correctly adjusted and saved. Press the BACK button again to return to the Camera Settings menu.

---


*NOTE*

*You need to reset the time and date whenever you replace the camera's batteries. In this case, you can enter the clock setting mode directly rather than going through the Camera Settings menu. See page 1-13 for instructions.*

---

## Setting the Alert Beep


To turn the camera's alert beep on or off, follow these steps:

- 1 With the Settings menu selected, press the SELECT button. Icons for each setting appear on the screen, as shown on 8-9.
- 2 Press the ◀/▼ button to select the beep setting icon .

- 3 Press the SELECT button to select ON or OFF. The current selection is highlighted.
- 4 Press the BACK button to save your setting and return to the Settings menu.

## Setting the LCD Brightness


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

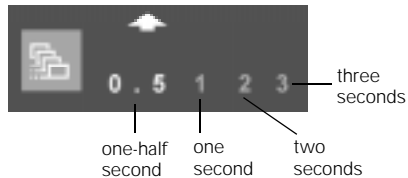
- 1 With the Settings menu selected, press the SELECT button. Icons for each setting appear on the screen, as shown on page 8-9.
- 2 Press the ◀/▼ button until the brightness icon  is highlighted in orange.
- 3 Press the SELECT button again.
- 4 Press the ►/▲ or ◀/▼ buttons to adjust the screen brightness.
- 5 When you're finished adjusting the screen brightness, press the BACK button to save your setting and return to the Settings menu.

## Setting the Multi-frame Shooting Time

You can use the Settings menu to adjust the total time the camera takes to shoot nine frames in the multi-frame format. See page 2-12 for more information about this special format.

- 1 With the Settings menu selected, press the SELECT button. Icons for each setting appear on the screen, as shown on page 8-9.

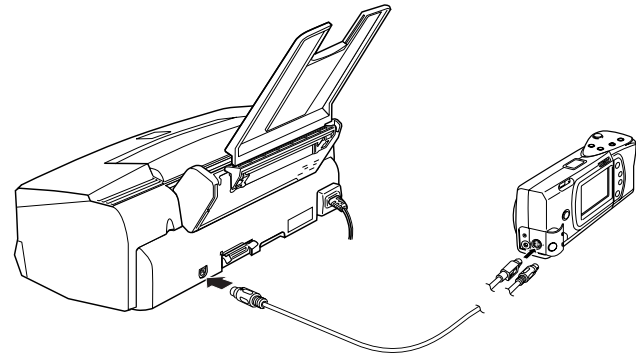
Press the ◀/▶ button until the multi-frame icon  is highlighted and the following options appear:



- 2 Press the SELECT button until the setting you want is highlighted.
- 3 When you're finished adjusting the multi-frame period, press the BACK button to save your setting and return to the Settings menu.

## Uploading Programs into the Camera

By uploading new programs into the camera, you can add unique functions to your PhotoPC 600. The EPSON Stylus Photo Direct Print Kit will allow you to print from the camera to the EPSON Stylus Photo printer, without a computer. See Appendix A for more information.



You can use the EPSON Photo!2 Program Uploader utility to install up to five optional programs from your PC or Macintosh to your PhotoPC 600.

# 9

## *Using Your Camera for Presentations*

**Y**ou can connect your camera to a multimedia projector or television and show not just photos, but also text and graphics. The EPSON Photo File Uploader lets you transfer images from your computer to your camera. Anything you can display on your computer screen can be captured, converted, and uploaded. You can create and show a presentation without printing overhead transparencies or slides, and without a laptop computer.

This chapter explains the entire process, including the following:

- ▶ Uploading images to the camera
- ▶ Converting presentations
- ▶ Projecting your presentation

### **Uploading Images to the Camera**

The EPSON Photo File Uploader software allows you to convert any image or presentation slide to the EPSON Photo file format and upload it to your camera or a CompactFlash memory card in your computer's PCMCIA drive.

You can upload images in 640 × 480 pixel, 1024 × 768 pixel, or 1024 × 384 pixel sizes. EPSON Photo File Uploader automatically converts images from their original size to whichever of these three sizes you choose.



## Uploading Existing Images From Your Windows PC

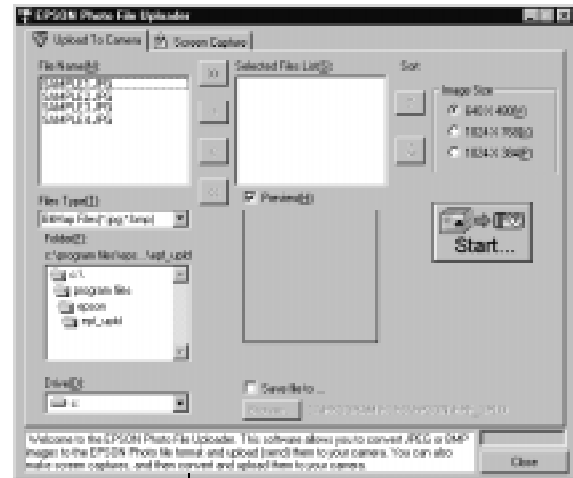
Before you start, make sure the camera is connected to your computer, and both the computer and the camera are turned on. Then follow these steps:

- 1 Start the EPSON Photo File Uploader program. In Windows 95, click Start, and then point to Programs, PhotoPC 600, EPSON Photo File Uploader. You see a screen like the one on the right.
- 2 From the Folder list, 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.

- 3 Select the format of the images you want to upload from the File 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.

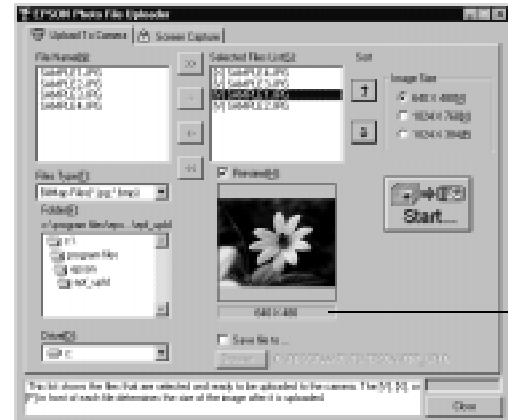


Check this box for helpful information.

As you select files, they appear in the Selected Files List in the order they will be uploaded, as shown on page 9-3. 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 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 Uploader will resize your files during the transfer process.

If you want to save copies of the converted files on your computer, click the Save file to checkbox. Click Browse, then select the folder where you want to save the files. Click OK. The folder you selected is displayed to the right of the Browse button.



size of previewed image in pixels

- 6 Click Start. EPSON Photo!2 opens and displays the images you selected.

Depending on the number of images, you may have to wait a minute or so for EPSON Photo!2 to open.

- 7 Click **Select All** to select all the images, or select individual images by clicking the thumbnails in the image selection window.
- 8 Click **Upload Photos**. The **Upload Photos** dialog box appears.
- 9 Click **Camera** to upload the images to your camera, or click **Compact Flash Memory Card** to upload to a memory card installed in your computer's PCMCIA drive; then click **OK**. The images are uploaded to the destination you selected.

If you clicked the **Save file to ...** checkbox in step 5, the converted images are also saved to the folder you specified.

## Uploading Images From Your Macintosh

Follow these steps to upload images to your camera from your Macintosh:

- 1 Make sure the camera is connected to the computer, and that both the computer and the camera are turned on.

- 2 Double-click the **EPSON Photo File Uploader** icon. The **EPSON Photo File Uploader** window opens:



size of  
previewed  
image

Check here for helpful information.

- 3 Click **Add**. The **Select Files** dialog box appears.
- 4 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.

When you finish selecting image files, click Done to close the Select Files dialog box. The selected images 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 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 Files List, select an image size from the Image Size box. The File Uploader will resize your files during the transfer process.

If you want to save copies of the converted files on your computer, click the Save file to checkbox before uploading the photos. Click Browse, then select the

folder where you want to save the files. Click OK. The folder you selected is displayed to the right of the Browse button.

- 6 Click Upload. A window opens to show you the progress of the file conversion. Then EPSON Photo!2 opens and displays the images you selected.
- 7 Click Select All to select all the images, or select individual images by clicking the thumbnails in the image selection window.
- 8 Click Upload Photos. The Upload Photos dialog box appears.
- 9 Click Camera to upload the images to your camera, or click CompactFlash Memory Card to upload to a CompactFlash memory card installed in the PCMCIA drive of your Macintosh; then click OK. The images are uploaded to the destination you selected.

If you clicked Save file to in step 5, the converted images are also saved to the folder you specified.

## 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 the camera or to a memory card.

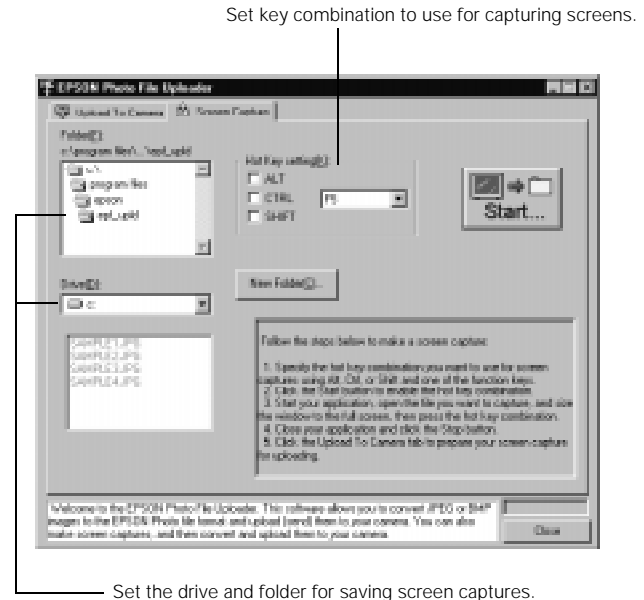
Windows users can make screen captures from within the EPSON Photo File Uploader utility; Macintosh users need to use the standard Macintosh screen capture function.

## Capturing Windows Screens

Before you start, make sure the camera is connected to your computer, and both the computer and the camera are turned on. Then follow these steps:

- 1 Start the EPSON Photo File Uploader program as described on page 9-2. You see the EPSON Photo File Uploader window, as shown on page 9-2.

- 2 Click the Screen Capture tab. The Screen Capture dialog box appears:



- 3 From the Folder list, double-click the folder where you want to save the screen capture.

- If you need to create a new folder for the images, click the New Folder button.
- 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 key from the hot key list. The default hot key is F5.
  - Click Start to activate the key combination. When the key combination is activated, the Start button changes to a Stop button. The key combination remains active only for the current session. To deactivate the hot key combination, press the Stop button.
  - 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.*

---

- Press the hot key combination you selected.

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.

- When you are finished, close your application and click the Stop button on the Screen Capture dialog box. The key combination you selected is erased.

If you want to upload your screen captures to the camera right away, click the Upload To Camera tab. The screen capture files appear in the File Name list. Then follow the uploading instructions starting with step 4 on page 9-2.

---

**TIP**

*Presentations using large fonts (at least 18 point) work best.*

---

## Capturing Macintosh Screens

EPSON Photo File Uploader for the Macintosh does not have a screen capture feature. However, you can make screen shots using your Macintosh system software, then use EPSON Photo File Uploader to upload the screen captures to your camera.

The procedure may be different depending on your Macintosh. See your computer manual for detailed instructions on making screen shots.

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

- 1 Open the EPSON Photo File Uploader as described on page 9-6.
- 2 Start your application and open the file to the image you want to capture.

---

### NOTE

*The entire desktop is captured, not just the active window. Make sure you 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 you want, without menus and other screen elements.*

---

- 3 Press the Command, 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.

- 4 When you are finished, close your application.

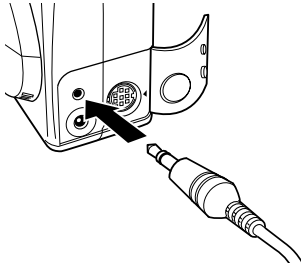
To upload your screen shots to the camera, click the EPSON Photo File Uploader window to make it active, then follow the uploading instructions starting with step 3 on page 9-4.

## Projecting Your Presentation

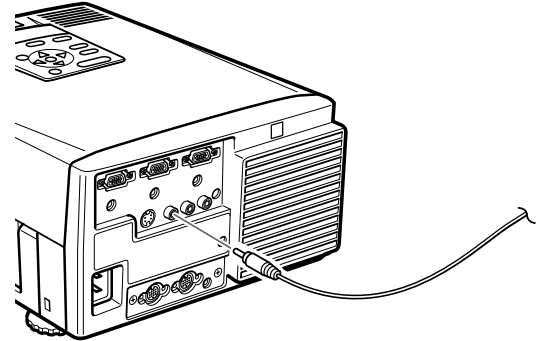
You can display the uploaded images on a multimedia projector, television, or other video output device. Use the video cable that came with your PhotoPC 600.

Follow these steps:

- 1 Make sure your camera and video projector are turned off.
- 2 Open the camera's connector cover and connect the black end of the video cable to the Video Out port as shown below:



- 3 Connect the yellow end of the video cable to the video input port on the projector as shown on the right.



- 4 Turn on the video projector and switch it to video mode.
- 5 Slide the camera's screen switch to Playback.

The last image that you uploaded into 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 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.



# Using CompactFlash Memory Cards

You can use ATA-compatible CompactFlash memory cards (4MB and up) to increase the storage capacity of your PhotoPC 600 camera. You can copy photos from your camera to the card (and vice versa).

It's easy to install and remove memory cards from your camera. If your desktop or laptop computer has a Type II PCMCIA card slot, you can access images directly by using an optional PCMCIA adapter.

---

## NOTE

*When you install a memory card, the camera stores and displays pictures on the card, rather than in its internal memory.*

---

CompactFlash memory cards and adapters should be available where you bought your PhotoPC 600 camera. EPSON recommends ATA-compatible CompactFlash cards manufactured by SanDisk or Simple Technology. For information, call (800) 4-SIMPLE.

This chapter covers the following:

- ▶ Installing a memory card
- ▶ Removing a memory card
- ▶ Getting images from a card to your computer
- ▶ Formatting a memory card
- ▶ Getting memory information
- ▶ Copying to and from a memory card

CompactFlash cards increase the camera's picture storage capacity as shown in the table below. Each card adds the number of pictures shown to the number of pictures in the camera's internal memory.

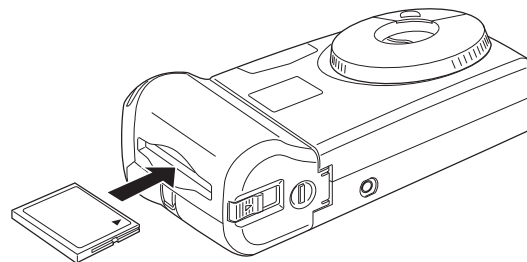
*Number of pictures (minimum capacity)*

Image Quality	Internal Memory	4MB Card	8MB Card	12MB Card	16MB Card
Standard	50	58	119	179	240
Fine	16	19	39	59	80
Super Fine	7	8	17	25	34
Fine Panorama	33	39	79	119	160
Super Fine Panorama	14	16	34	51	68

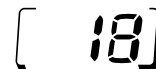
## Installing a Memory Card

Before you start, make sure the camera and the LCD screen are turned off.

Insert the card all the way into the memory card slot, as shown on the right.



The number of pictures you can store in the memory card appears in brackets on the camera's display panel.



---

*NOTE*

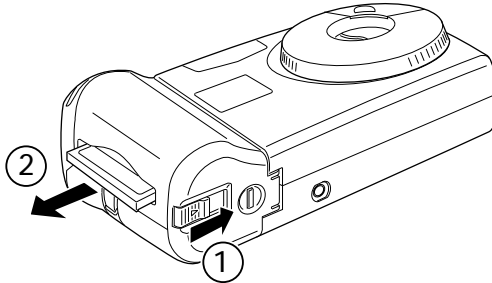
*When a memory card is installed, you may notice a delay between the time you press the shutter button and when the camera beeps. To avoid blurring, make sure you hold the camera still until it beeps.*

---

## Removing a Memory Card

Make sure the camera and the LCD screen are turned off.  
Then follow these steps:

- 1 Slide the switch on the bottom of the camera to eject the memory card.



- 2 Remove the card by hand.

---

### CAUTION

*Never remove the card while the camera is accessing it. Data in the card may be lost or damaged. Avoid using or storing the card in dusty places, in direct sunlight, or in places that become extremely hot or humid.*

---

## Getting Images From a Card to Your Computer

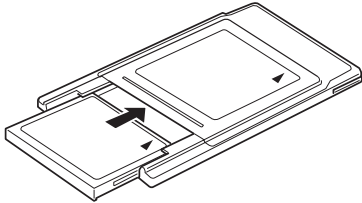
A PCMCIA adapter allows you to access images stored on CompactFlash cards directly from your computer. To use this adapter, your computer must be equipped with a Type II PCMCIA memory card slot.

If you're using a Macintosh, you must enable the PC Exchange extension software to access files on CompactFlash cards. See your Macintosh documentation for more information.

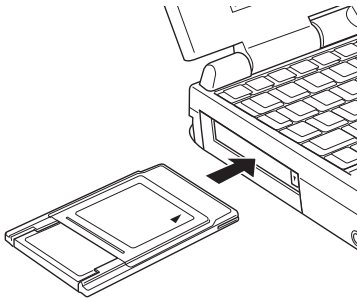
## Using a PCMCIA Adapter

Follow these steps to use an adapter:

- 1 Insert the memory card all the way into the adapter, as shown below:



- 2 Insert the adapter into your computer's Type II PCMCIA slot:



## Transferring Photos

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.

- ▶ In Windows 95, use My Computer or the Windows Explorer to drag and drop image files to your hard drive.
- ▶ In Windows 3.1, use the Windows File Manager to copy image files to your hard drive.
- ▶ On a Macintosh, use the Finder to drag and drop image files to your desktop or hard drive.

---

### NOTE

*If you can't access a card in your notebook computer, contact the computer manufacturer. For more information, see page 11-6.*

---

## Formatting a Memory Card


Most ATA CompactFlash cards are already formatted when you buy them. You only need to format a card if a message appears on the LCD screen instructing you to do so.

With the memory card installed in the camera, follow these steps:

- 1 Set the screen switch to Playback. If you haven't used the memory card, you may see the following message:



This applies to the memory card only, and does not indicate whether you have photos in the camera's internal memory.

- 2 Press the SELECT button to display the LCD screen menus.
- 3 Press the ►/▲ or ◀/▼ button until you see the Photo Control menu . Then press the SELECT button to display the menu options, as shown on the right.



- 4 Press the ►/▲ or ◀/▼ button until Format Card is highlighted.
- 5 Press the SELECT button. A message appears stating that all data on the card will be erased and asking you to confirm the procedure.
- 6 Press the SELECT button again to format the card and return to the Photo Control menu.
- 7 Press BACK until you return to normal playback mode.

---

*NOTE*

*If you are unable to format a Simple Technology card, contact the Technical Support Department at (800) 4-SIMPLE.*

---

## Getting Memory Information

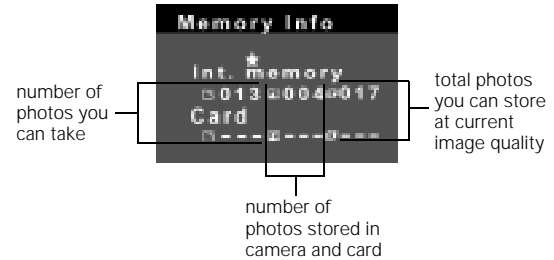


You can use the Photo Control menu to get information on the number of pictures taken and remaining in your camera's internal memory and on an installed memory card. Make sure the screen switch is set to Playback and follow these steps:

- 1 Press the SELECT button to display the LCD screen menus.
- 2 Press the ►/▲ or ◀/▼ button until you see the Photo Control menu, then press the SELECT button to display the menu options:



- 3 Press the ◀/▼ button until Memory Info is highlighted in orange, then press the SELECT button. You see information displayed like the following:



- 4 Press BACK to return to the Photo Control menu. Continue pressing BACK to return to normal playback mode.

## Copying to and From a Memory Card

When a memory card is installed in your camera, you can copy photos between the camera's internal memory and the memory card. Before you start, make sure the screen switch is set to Playback. You might find it easier to select images if you set the playback mode to Multi. See page 3-4 for instructions. Then follow these steps:

- 1 Press the SELECT button to display the LCD screen menus.
- 2 Press the  $\blacktriangleright/\blacktriangle$  or  $\blacktriangleleft/\blacktriangledown$  button until you see the Photo Control menu. Then press the SELECT button to display the menu options:



- 3 Press the  $\blacktriangleright/\blacktriangle$  or  $\blacktriangleleft/\blacktriangledown$  button until Copy is highlighted in orange, then press the SELECT button to enter the Copy mode. The following menu is displayed:



- 4 Press the  $\blacktriangleright/\blacktriangle$  or  $\blacktriangleleft/\blacktriangledown$  button to copy photos from the camera to the card, or from the card to the camera.
- 5 Press the SELECT button, then press the  $\blacktriangleright/\blacktriangle$  or  $\blacktriangleleft/\blacktriangledown$  button to move forward or back through the images in the camera until the photo you want to copy appears on the screen.
- 6 Press the SELECT button. An orange frame appears around the photo. If you want to copy several photos at the same time, use the  $\blacktriangleright/\blacktriangle$  or  $\blacktriangleleft/\blacktriangledown$  button to display them and press the SELECT button each time.

---

*NOTE*

*To cancel the selection of a photo, simply press the **SELECT** button again. If you select more photos than the card or camera can hold, an error message appears.*

---

- 7** When you have selected all the photos you want to copy, press the **BACK** button. A message appears asking you to confirm your selections.
- 8** Press the **SELECT** button to copy the images and return to the Photo Control menu.
- 9** Press **BACK** until you return to playback mode.



# 11 Maintenance and Troubleshooting

Your PhotoPC 600 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 picture problems

## Caring for the Camera and Battery Charger

Your PhotoPC 600 requires only basic care. Before you perform any maintenance procedures, be sure to read the Safety Instructions in the Introduction. Then follow these guidelines:

### Cleaning the Camera and Battery Charger

- ▶ Use a clean, dry cloth to wipe the camera free of dust.
- ▶ Use a damp cloth for cleaning the battery charger.
- ▶ Unplug the battery charger before cleaning.
- ▶ 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

- ▶ Keep the lens covered (power turned off) and store the camera in a carrying case or bag when you're not using it.
- ▶ 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 camera damage 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 bright sources of 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.**

- ▶ Make sure the lens cover is open all the way.
- ▶ The camera may have shut off automatically. Close and open the lens cover to turn the power back on.
- ▶ Check the batteries and make sure they are installed correctly. Recharge or replace the batteries.
- ▶ If you are using the AC adapter, make sure it is plugged into a working outlet.

### **You can't take a picture with the camera.**

- ▶ The flash may be recharging. Wait until the status light turns green, and try again.
- ▶ The camera may be full. Check the picture counter on the display panel. Erase some pictures (see Chapter 3), or transfer the pictures to your computer and then erase them (see Chapter 4). Or, install a CompactFlash memory card to store more pictures (see Chapter 10).
- ▶ 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 8 for instructions on taking pictures from your computer.

### **The flash doesn't work.**

- ▶ Make sure the flash is not set to the flash off setting.
- ▶ Check the batteries and make sure they are installed correctly. Recharge or replace the batteries if necessary.

- ▶ You can't use the flash when you adjust the shutter speed manually with the camera connected to the computer. Set the shutter speed to automatic to use the flash.

### **Your LCD screen flickers.**

- ▶ Check the lights around you. The screen may appear to flicker under fluorescent light. This does not affect your picture quality.

### **Nothing appears on the LCD screen.**

- ▶ If you're using View mode, make sure the power is on.
- ▶ Check your batteries and make sure they are installed correctly. Recharge or replace the batteries if necessary.

### **The image on the screen is too dark.**

- ▶ Adjust the brightness of the screen using the Settings menu. See page 8-10 for instructions.

**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. So the number doesn’t always change, especially when you’re using standard image quality.

**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 4.
- ▶ 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!2 software. You may need to change the Port and Speed serial connection settings to Auto.
- ▶ Make sure the port to which your camera is connected 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 Chapter 8 for more information.
- ▶ If you’re using a Macintosh and the camera is sharing a serial port with another device, make sure AppleTalk is turned off.
- ▶ Make sure you don’t have both Image Expert and EPSON Photo!2 open at the same time.

**You get an error message when you’re using your PhotoPC 600 software with the camera connected to your computer.**

- ▶ Make sure the cable is connected correctly as described in Chapter 4.
- ▶ 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!2 software. You may need to change the Port and Speed serial connection settings to Auto.
- ▶ Avoid opening or working with other software applications while the camera and computer are communicating.

**You are unable to drag and drop photos into a document.**

- ▶ If you're using Windows 3.1, this method of getting pictures into your documents may not be reliable. Try importing or using copy and paste.
- ▶ If your system has less than 16MB 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.

**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.

- ▶ 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 extensions that are unnecessary. See your computer documentation or online help for more information about changing memory settings and turning off extensions.

**The pictures transfer to your computer too slowly.**

- ▶ If your system has less than 16MB 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.

**You get an error message when you use the Image Expert Save to Floppy feature.**

- ▶ Make sure the diskette you're using is not write-protected.

**You get a TWAIN error message when you try to transfer images with Adobe® Photoshop.**

- ▶ If you're using Windows 3.1, make sure you select TWAIN (not TWAIN-32) as your source.
- ▶ If you're using Windows NT 4.0, you may need to upgrade your software to Photoshop 4.0. Earlier versions of Photoshop do not support Windows NT 4.0.

**You are unable to format or use a CompactFlash memory card with your camera.**

- ▶ Make sure you're using an ATA-compatible CompactFlash card. Other cards may not work with PhotoPC 600. If you're using a Simple Technology card, call the Technical Support Department at (800) 4-SIMPLE.

**Your notebook computer can't access a memory card.**

- ▶ If you're using an IBM Thinkpad,™ you need to adjust your port setting. In the Windows Control Panel (System Device Manager), change the Global Settings for your PCMCIA port to Auto. For more information, contact your computer manufacturer.

**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 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 Photo File Uploader to convert and upload your images.

## Solving Picture Problems

If you're not satisfied with some of the pictures you get from the PhotoPC 600, 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 600 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 color ink jet printer, for example, provides excellent image quality.
- ▶ If you used drag and drop to insert your pictures, they may appear grainy. Try importing them into your documents instead.

### 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 use your Image Expert software to adjust the colors, as described on page 7-3.

### Your picture is blurry or out of focus.

- ▶ Make sure your subject is within the camera's range. You should be at least 2 feet away to take a picture without the flash, and 8 inches to 8 feet away to take a picture with the flash. You can take a picture as close as 8 inches in macro mode.
- ▶ Make sure you hold the camera steady, and your subject isn't moving.
- ▶ If you want to photograph a moving subject, you can change the shutter speed while the camera is connected to your computer. Try increasing the shutter speed. For more information, see Chapter 8.
- ▶ 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 8 inches to 8 feet.
- ▶ Use Image Expert to adjust the picture's brightness and contrast as described on page 7-3.
- ▶ If you're using the macro mode to take a close-up photo, be sure to provide adequate lighting for your subject, since the camera's smallest aperture setting (F8) is automatically selected in this mode.

#### **Your picture is too light (overexposed).**

- ▶ If you're using the forced flash setting, it may be too bright. Try setting the flash to Auto.

- ▶ 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 as described on page 7-3.

#### **Part of your picture is missing.**

- ▶ Make sure you're not blocking the lens with your finger, hand 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.**

- ▶ Whenever you change the batteries in your camera you need to reset the clock. You can use the LCD screen Settings menu or set the camera's clock from your computer. See Chapters 1 and 8 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 11-1.

**The area captured in the photo is different from what you saw in the viewfinder.**

- ▶ Make sure you look straight through the viewfinder. Keep in mind that the area visible through the viewfinder is slightly smaller than the area captured in the photo.
- ▶ If you're taking a close-up or macro mode picture, use the LCD screen.



## *Optional Accessories*

**Y**ou can use the PhotoPC 600 with a variety of options. To save battery power, you can use the AC adapter. For portraits or other studio photographs, you can attach a tripod to your camera. You can also get replacement NiMH batteries or a replacement NiMH Power Pak.

To increase your camera's picture storage capacity and add flexibility, you can use CompactFlash memory cards and PCMCIA adapters. EPSON recommends cards manufactured by SanDisk or Simple Technology (800-4-SIMPLE). For information on using memory cards, see Chapter 10.

The EPSON Stylus Photo Direct Print Kit comes with everything you need to print directly from the camera to the EPSON Stylus Photo printer: software on a CD-ROM,

AC adapter, and cable for connecting your camera to the printer.

This chapter includes the following instructions:

- ▶ Using the AC adapter
- ▶ Using a tripod

The AC adapter and EPSON Stylus Photo Direct Print Kit should be available where you bought your PhotoPC 600. You can also order them from EPSON Accessories at **(800) 873-7766** (U.S. sales only). In Canada, call **(800) 873-7766** for dealer referral.

Accessory	Product code
PhotoPC 600 AC adapter	B867038
EPSON Stylus Photo Direct Print Kit	A883191
NiMH Battery Pak	B818061
NiMH Power Pak	B818051

## Using the AC Adapter

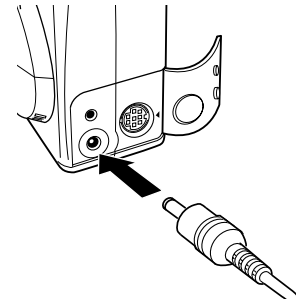
The AC adapter (B867038) allows you to connect your PhotoPC 600 to any standard electrical outlet. This is especially useful when you are transferring pictures and operating the camera from your computer. The adapter powers the camera but does not charge the batteries.

### WARNING

- ▶ Use only the adapter designed for the PhotoPC 600. Using any other adapter may cause fire, electrical shock, or injury.
- ▶ Do not alter the plug on the power cable, and do not use the adapter for any other purpose than powering your PhotoPC 600.

To avoid losing any images or settings, make sure the camera is finished processing. Turn the camera 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

You can use your PhotoPC 600 with any standard tripod.

Follow these steps:

- 1 Assemble and set up the tripod by following 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.



# *Specifications*

## **Camera**

### **Physical Dimensions**

Width	5.6 in (142.5 mm)
Height	2.75 in (69.8 mm)
Depth	1.9 in (48.8 mm)
Weight	0.5 lb (under 250 g), without batteries

### **Safety Specifications**

FCC approval code BKMFBG660A

## **Power**

### **Sources**

4 AA batteries (single-use alkaline or lithium or rechargeable NiCad or NiMH)

Optional AC adapter (B867038)

### **Battery Life**

At least 400 pictures can be taken before the standard NiMH batteries need recharging (without the LCD screen or flash)

## Technical

Product type	CCD (charged coupled device) still frame auto focus camera
Image size	1024 × 768 pixels (fine and super fine) 640 × 480 pixels (standard and multi) 1024 × 384 pixels (panoramic)
DPI	144 standard and multi 240 all other settings
Bit depth	16 million colors, 24-bit
Lens	5-element aspherical glass lens
CCD	1/3 inch color area CCD (810,000 pixels)
Serial interface	8-pin mini-DIN (to camera), RS-232C-compatible (to computer)
Serial communication speed	Up to 115Kbps
Video out	NTSC standard
Internal memory	4MB flash memory

Optional expansion memory	CompactFlash cards from 4MB to 16MB (available from SanDisk and Simple Technology)
---------------------------	---

## Environmental

Temperature	Operating: 32 to 104°F (0 to 40°C) Non-operating: -4 to 140°F (-20 to 60°C)
Humidity	Operating: 30 to 90% (non-condensing) Non-operating: 10 to 90% (non-condensing)

## Photographic

Lens	f = 5 mm F2.8 (equivalent to a 36 mm lens on a 35 mm camera)
Range	20 inches (50 cm) to infinity 8 inches to 20 inches (20 cm to 50 cm) (macro mode)
LCD screen	2-inch active matrix TFT color LCD (110,000 pixels)
Sensitivity	Equivalent to ISO 100
Exposure control	Program auto exposure
White balance	TTL automatic white balance
Shutter	Electric iris with mechanical shutter, 1/8 second to 1/500 second (flash off mode)  1/30 second to 1/500 second (auto flash and forced flash modes)

Viewfinder	Optical, with centering crosshair and edge border
Focus	Auto focus
Aperture	F2.8, F5.6, F11 automatic change
Flash	Automatic luminance control flash
Flash modes	Forced flash, automatic, flash off
Flash range	8 inches to 8 ft (0.2 to 2.4 m)

## NiMH Battery Charger

### Physical Dimensions

Width	3.0 inches (76 mm)
Height	4.41 inches (112 mm)
Depth	0.87 inches (22 mm)
Weight	Approximately .24 lb (110 g)

### Technical

Input	120V AC, 60 Hz
Output	DC 1.2V/650mA $\times$ 4
Charging time	Approximately 160 minutes
Power consumption	Approximately 8W
Charging temperature	32 to 95°F (0 to 35°C)

## Optional AC Adapter

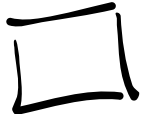
### Physical Dimensions

Width	1.97 inches (50 mm)
Height	1.18 inches (30 mm) 1.85 inches (47 mm) including pins
Depth	3.74 inches (95 mm)

### Technical

Output	DC 7V/2.0A
Input	110 to 120 V AC, 50 to 60 Hz





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