

EPSON®
PhotoPCTM**500**
COLOR DIGITAL CAMERA

User's Guide

IMPORTANT NOTICE DISCLAIMER OF WARRANTY

Epson America makes no representations or warranties, either express or implied, by or with respect to anything in this manual, and shall not be liable for any implied warranties of merchantability and fitness for a particular purpose or for any indirect, special, or consequential damages. Some states do not allow the exclusion of incidental or consequential damages, so this exclusion may not apply to you.

COPYRIGHT NOTICE

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Epson America, Inc. No patent liability is assumed with respect to the use of information contained herein. Nor is any liability assumed for damages resulting from the use of the information contained herein. Further, this publication and features described herein are subject to change without notice.

TRADEMARKS

EPSON is a registered trademark of SEIKO EPSON CORPORATION

PhotoPC 500, PhotoPix, PhotoSpan, EPSON Stylus, EPSON PhotoPC 500 imaging software, and EPSON Photo! TWAIN are trademarks of Epson America, Inc.

General notice: Other product names used herein are for identification purposes only and may be trademarks of their respective owners. EPSON disclaims any and all rights in those marks.

Copyright © 1996 by Epson America, Inc.
Torrance, California, USA

CPD 4185
11/96

A NOTE CONCERNING RESPONSIBLE USE OF COPYRIGHTED MATERIALS

Like photocopiers, digital cameras can be misused by improper photographing of copyrighted material. Although Section 107 of the U.S. Copyright Act of 1976 (Title 17, United States Code), the "fair use" doctrine, permits limited copying in certain circumstances, those circumstances may not be as broad as some people assume. Unless you have the advice of a knowledgeable attorney, be responsible and respectful by not photographing published material without the permission of the copyright holder.



Introduction

Your new EPSON® PhotoPC 500™ is an advanced, easy-to-use digital camera that captures clear and attractive images. PhotoPC 500 comes with everything you need to quickly load your photos into the computer and then transform them into great-looking pictures to place in your documents. Here are just a few of the things you can do with your new, versatile camera:

- I Add color and visual appeal to your newsletters, flyers, and brochures.
- I Use your pictures in slide show presentations.
- I Make photo calendars and greeting cards for work and for play.
- I Use the optional EPSON PhotoPix™ LCD Monitor to display images you have captured.

PhotoPC 500 Features

PhotoPC 500 is a complete system for capturing digital images, and includes the following features:

- ▮ Base unit with 2MB internal flash memory that holds up to 30 high-resolution or 60 standard-resolution images
- ▮ 24-bit color image capture
- ▮ Built-in flash with auto, manual, and red-eye reduction settings
- ▮ Self-timer
- ▮ Automatic shut-off to save batteries
- ▮ Cable for transferring photos to your computer

Your camera comes with the PhotoPC 500 Software pack, which includes the following useful applications:

- ▮ EPSON PhotoPC 500 Imaging Software for downloading, organizing, editing, and enhancing your pictures
- ▮ The EPSON Photo!TM TWAIN and Utility Driver for transferring your pictures to the computer and changing the settings on the camera

- ▮ Sierra® Print ArtistTM for creating calendars, banners, and other cool projects.

The Optional EPSON PhotoPix LCD Monitor

An exciting accessory to use with your PhotoPC 500 is the EPSON PhotoPix LCD Monitor. It offers the following advanced features:

- ▮ Playback of all the pictures stored in the camera
- ▮ Close-up picture mode
- ▮ Selectable image erasing
- ▮ Brightness adjustment for outdoor use
- ▮ Slide show of all your pictures
- ▮ Multi mode for viewing several images at once
- ▮ Real Time live preview so you can see the exact picture before you snap the shutter

For more information about the EPSON PhotoPix LCD Monitor, see Chapter 11.

Other Optional Accessories

EPSON also offers these accessories for the PhotoPC 500:

- 2MB and 4MB PhotoSpan™ memory modules for expanding the storage capacity of your PhotoPC 500
- AC adapter for use with any electrical outlet

You can also use standard 37 mm video camcorder lenses and filters available from leading suppliers, such as Tiffen® Manufacturing Corp.

Minimum System Requirements

To transfer images to your computer and edit them, make sure your system meets these minimum requirements:

- IBM®-compatible PC with 486 or higher processor
- Serial port with standard RS-232C interface
- VGA viewing screen with at least 256-color display
- 8MB RAM (with Windows NT™, at least 16MB is required)
- At least 25MB free hard disk space
- Mouse or other pointing device
- CD-ROM drive

- Microsoft® Windows® 3.1, Windows for Workgroups™ 3.11 (or later), Windows 95 (or later), Windows NT version 3.5 (or later)

Where to Get Help

EPSON provides customer support and service through a network of authorized EPSON Customer Care Centers. Dial **(800) 922-8911** for the nearest location or for the following services:

- Fax-on-demand access to EPSON's technical information library
- Literature on current and new products
- The location of your nearest Authorized EPSON Reseller or Customer Care Center
- Technical information on installation, configuration, and operation of EPSON products
- Customer relations.

For answers to commonly asked questions about EPSON products 24 hours a day, 7 days a week, call EPSON Sound Advice at **(800) 442-2110**

You can purchase manuals, accessories, or parts from EPSON Accessories at **(800) 873-7766** (U.S. sales only). In Canada, please call **(800) 463-7766** for dealer referral.

If you need help using software with an EPSON product, see the documentation for that program for technical support information.

Electronic Support Services

You can access helpful tips, specifications, DIP switch or jumper settings, drivers, FAQs, sample files, application notes, and EPSON product bulletins 24 hours a day, 7 days a week, using a modem and one of the on line services below.

World Wide Web

From the Internet, you can reach EPSON's home page at **<http://www.epson.com>**.

EPSON Internet FTP Site

If you have Internet FTP capability, use your Web browser (or other software for FTP downloading) to log onto **<ftp.epson.com>** with the user name **anonymous** and your e-mail address as the password.

EPSON Download Service

You can call the EPSON Download Service BBS at **(800) 442-2007**. Set your communications software to 8 data bits, 1 stop bit, no parity. Modem speed can be up to 28.8 Kbps.

EPSON Fax-on-Demand Service

You can access EPSON's technical information library by calling **(800) 442-2110** or **(800) 922-8911** and selecting the appropriate phone option. You must provide a return fax number to use Fax-on-Demand.

EPSON Forum on CompuServe®

Members of CompuServe can type **GO EPSON** at the menu prompt to reach CompuServe's Epson America Forum. As an owner of an EPSON product, you are eligible for a free introductory CompuServe membership, which entitles you to an introductory credit and your own user ID and password. To take advantage of this offer in the U.S. or Canada, call **(800) 848-8199** and ask for representative #529.

Registration

Please take a minute to fill out the registration card for the PhotoPC 500 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 500.

Software Support

If you've tried the on-screen help and you still have questions, call the number for the application you need help with:

- EPSON Photo! TWAIN driver (800) 822-8911
- PhotoPC 500 imaging software (800) 822-8911
- Sierra Print Artist (206) 644-4343

See the inside back cover for information about additional support services for your software.

Safety Instructions

Read all of these instructions and save them for later reference. Also follow all warnings and instructions marked on the camera.

- 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*.
- Do not insert objects through any openings.
- To prevent fire or electric shock, do not expose the camera to rain or moisture.
- To prevent fire or explosion, do not use the camera where inflammable or volatile gas is stored.
- Do not use outdoors during a thunderstorm.
- 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.
- Do not use harsh or abrasive cleaners. Wipe off dust with a clean, dry cloth.
- To avoid damage to the optics of the camera, do not expose the lens to direct sunlight for extended periods of time.
- To prevent possible eye injury, do not take flash pictures of faces at close range.

- l Do not store the camera or its optional accessories near sources of bright light, direct sunlight, high humidity, heat, excessive dirt or dust, or where they will be exposed to strong vibrations or magnetic fields.
- l 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.
- l Use only the types of power sources listed in this *User's Guide*.
- l Do not use a frayed or damaged power cord.
- l 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 of all devices plugged into the wall outlet does not exceed 15 amperes.
- l 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.

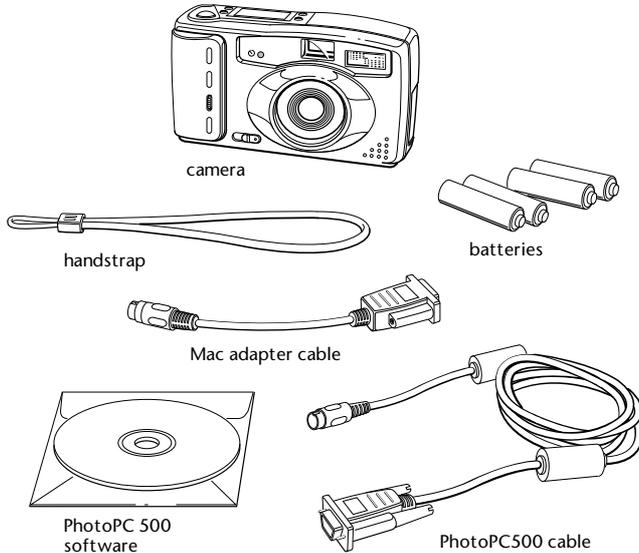
- l Adjust only those controls that are covered by the operating instructions.
- l If the liquid crystal solution contained in the camera's control panel or in the screen on the optional EPSON photo LCD Monitor leaks out and gets on your hands, wash them thoroughly with soap and water. If it gets in your eyes, flush them immediately with water.

If you plan to use the camera and its optional accessories in Germany, observe the following:

- l To provide adequate short-circuit protection and over-current protection for the products, the building installation must be protected by a 16 amp circuit breaker.
- l Bei Anschluß des Produkts an die Stromversorgung muß sichergestellt werden, daß die Gebäudeinstallation mit einem 16 A-Überstromschalter abgesichert ist.

1

Getting Started



This chapter helps you get ready to use your new PhotoPC 500. It covers the following:

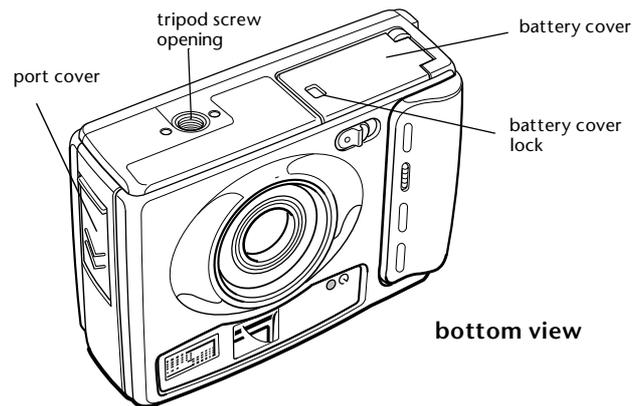
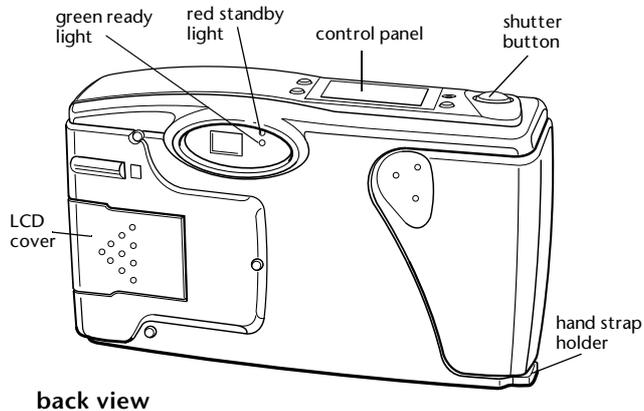
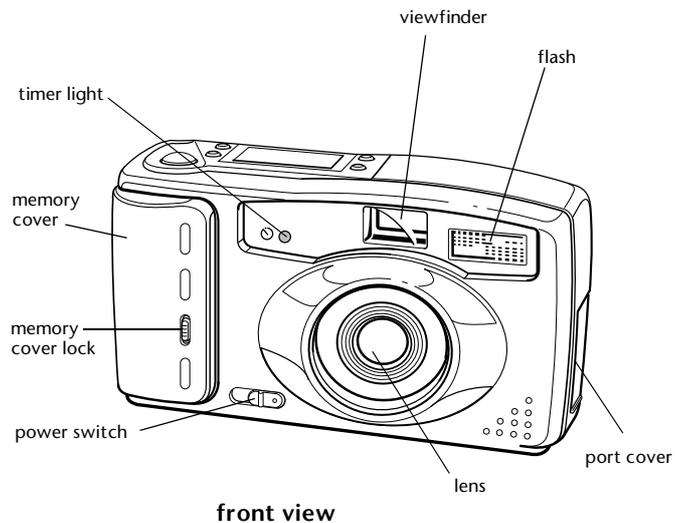
- I Unpacking your PhotoPC 500
- I Getting to know the camera
- I Removing the plastic film
- I Installing the batteries
- I Attaching the hand strap
- I Installing your PhotoPC 500 software

Unpacking Your PhotoPC 500

The PhotoPC 500 includes all the parts shown to the left. You will need everything but the Mac adapter cable. If you purchased the EPSON PhotoPix LCD Monitor, see page 11-2 for instructions on unpacking it.

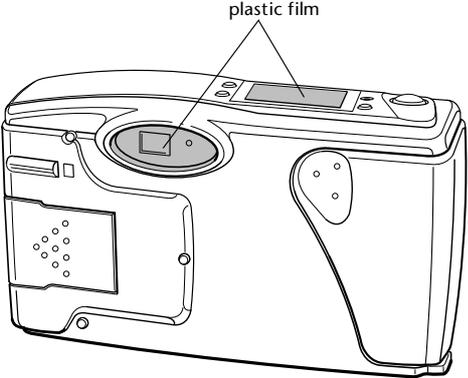
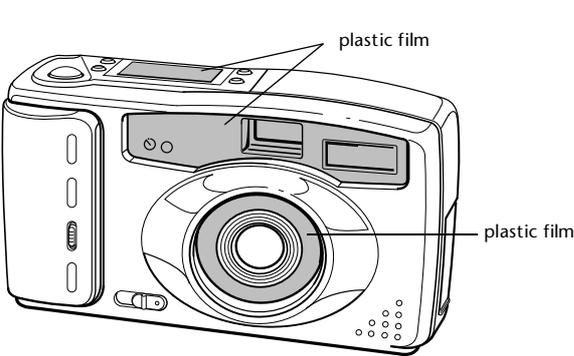
Getting to Know the Camera

After you unpack your PhotoPC 500, take a few minutes to get to know its features.



Removing the Plastic Film

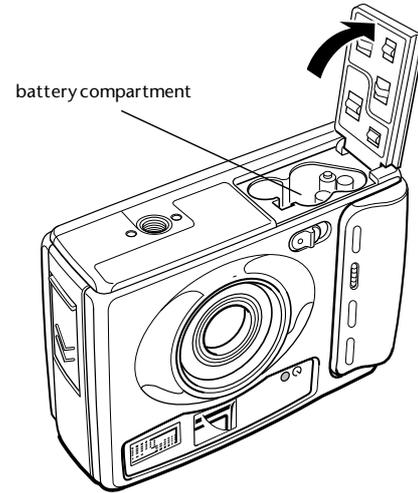
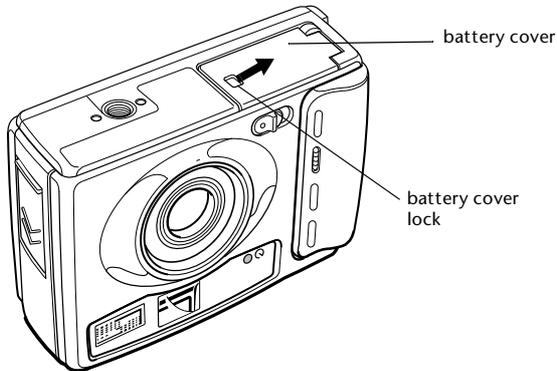
To protect the camera from scratches, some parts have been covered with plastic film, as shown in the gray areas below. Peel off the plastic film before you use your camera.



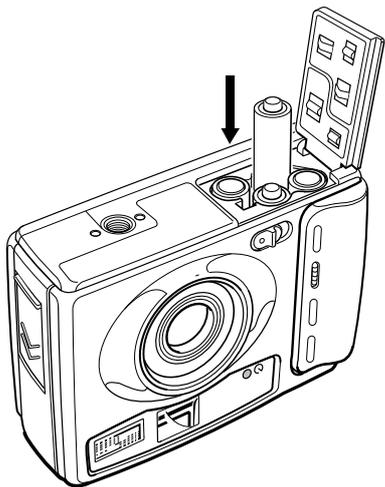
Installing Batteries

Your PhotoPC 500 comes with four AA alkaline batteries. Make sure the camera is turned off, and follow these steps to insert the batteries:

- 1 Using a fingernail or a small screwdriver, slide the battery cover lock in the direction of the arrow and hold it in that position while lifting up the battery cover door.



- 2 Insert all four batteries into the compartment, positioning the + and - ends as marked in the compartment and shown in the following illustration.



- 3 Close the battery cover, making sure that it snaps in place.

Handling Batteries

When your PhotoPC 500 batteries wear out, you can replace them with any of the following:

- l Single-use AA alkaline batteries
- l Single-use AA lithium batteries (longest life)

- l Rechargeable AA Ni-Cad batteries
- l Rechargeable AA Ni-MH batteries

If you have the optional PhotoPix LCD Monitor, we recommend that you use lithium or rechargeable batteries. Alkaline batteries have a shorter life when used with the monitor.

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.

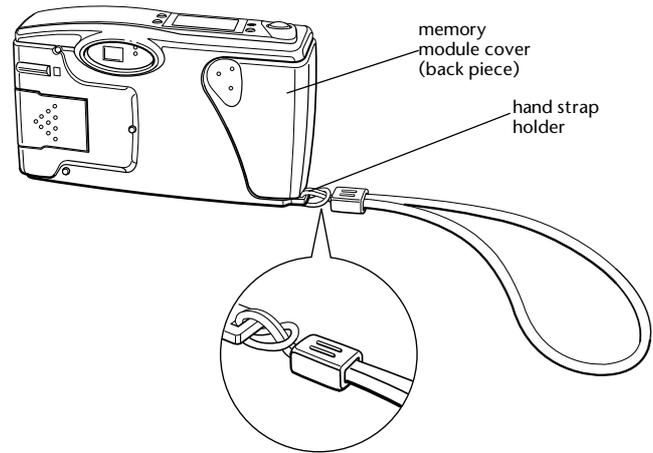
Note the following when handling batteries:

- l Do not use manganese batteries.
- l Replace all four batteries at the same time
- l Do not drop, puncture, disassemble, or mutilate batteries. Do not get them wet or expose them to fire.
- l 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.

- Dispose of used batteries according to the battery manufacturer's instructions and in compliance with all applicable laws. Contact your local government agency for information about battery recycling and disposal.
- If you use rechargeable Ni-Cad or Ni-MH batteries, replace them with four fully charged batteries. If you find that your batteries run out faster after you recharge them a few times, make sure you discharge them completely before recharging.

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 500 Software

The PhotoPC 500 comes with everything you need to transfer your pictures to the computer, edit your images, and insert them into documents. You can also send your images over the internet and turn them into screen-savers. The included CD-ROM has these three applications: EPSON PhotoPC 500 imaging software, EPSON Photo! TWAIN driver and utility software, and Sierra Print Artist.

Follow these steps to install your software from the CD-ROM:

- 1 Insert the PhotoPC 500 CD into your CD-ROM drive.
- 2 From Windows 95 or Windows NT, 4.0 click the start button, and then click **Run**.

From the Windows 3.1 or the Windows NT, 3.51 Program Manager screen, choose **Run** from the file menu.
- 3 In the dialog box, type: **D:\INSTALL**. If your CD-ROM drive is not drive D, substitute the correct letter.
- 4 Click OK. You see the main installation screen.

- 5 Make sure PhotoPC 500 is checked, along with the EPSON Photo! driver and Sierra Print Artist if you want to install it.
- 6 Click Install and follow the instructions on the screen to complete the installation.

NOTE

Don't restart Windows until all the software programs have been installed.

You now have the following new program groups (or folders):

- l PhotoPC 500 (PhotoPC 500 imaging software and EPSON Photo! TWAIN driver)
- l Sierra (Print Artist)

2

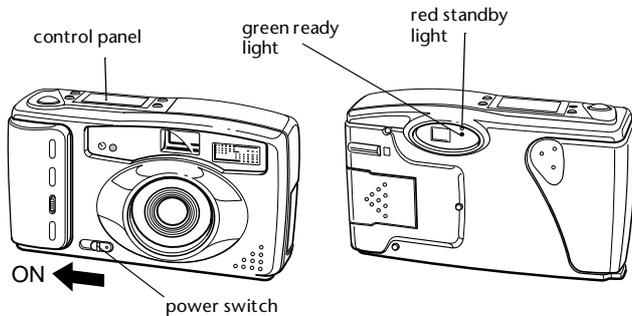
Using Your PhotoPC 500 Camera

Taking pictures with PhotoPC 500 is similar to using a traditional “point and shoot” camera. This chapter shows you everything you need to know, including the following information:

- I Turning the camera on and off
- I Saving power with auto shut-off
- I Using the control panel
- I Checking the battery icon
- I Snapping the shutter
- I Taking close-up pictures
- I Adjusting settings
- I Erasing pictures
- I Checking the picture counter

Turning the Camera On and Off

To turn the camera on, simply slide the power switch to the ON position. The lens cover opens and the control panel on the top of the camera lights up. The red standby light on the back of the camera flashes for a few seconds. When it stops flashing, the green ready light is on and the camera is ready to take pictures.



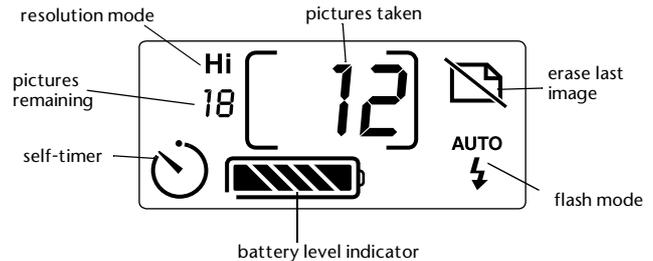
To turn off the camera, slide the power switch to the OFF position. The lens cover closes and the control panel turns off.

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, either slide the power switch to OFF, then ON, or press the shutter button. You will have to press the shutter button a second time to take a picture.

Using the Control Panel

The control panel keeps track of how many pictures you've taken and provides important information about the status of your batteries and the camera's current settings.



Checking the Battery Icon

Before you take pictures, check the battery icon on the control panel. The icon shows how much battery power you have left, in the following stages:

 Full battery power (or AC adapter in use)

 to  Battery power is decreasing

 Battery power low (time to buy new batteries)

 Battery power is almost out

 Change batteries

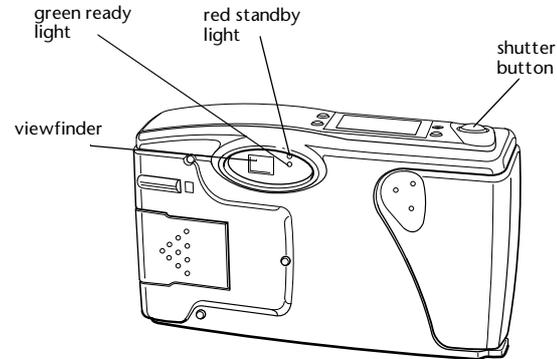
You should use the battery icon only as a guide to estimate remaining power. Several factors can affect battery life, including the surrounding temperature and the type of batteries you use. Low temperatures (especially below 50 °F) weaken your batteries.

Snapping the Shutter

Follow these steps to take a picture:

- 1 Turn the camera on and wait until the green ready light comes on.

- 2 Look straight through the viewfinder and center your subject. Make sure that the entire image you want in the picture is within the viewfinder's yellow frame.
- 3 Slowly press the shutter button.
- 4 Hold the camera still until it beeps and the red standby light starts flashing.



The flashing red light indicates that the camera has captured the image and is processing it. (If you try to press the shutter button again, you'll hear an "error" beep.)

When the red light stops flashing, the image is saved. Saved images remain in memory for up to a year, even when the camera is turned off and the batteries are removed.

You can take another picture when the red standby light stops flashing and the green ready light is on. If the red light flashes longer each time you take a picture, your batteries are getting weaker.

NOTE

Remember that the camera shuts off automatically after 60 seconds. To turn the camera back on, either slide the power switch to OFF, then ON, or press the shutter button to turn on the camera. You will have to press the shutter button again to take a picture.

Taking Close-up Pictures

You should be at least 2 feet (60 cm) away from the subject you are photographing. If you want to take pictures at a closer range, you should use the PhotoPix LCD Monitor in Macro mode or a 37 mm video camcorder close-up lens.

For instructions for using the LCD monitor in Macro mode, see page 11-12. For instructions on using a camcorder lens, see page A-7.

If you use a close-up or “macro” lens for a camcorder, the viewfinder does not give you an accurate representation of your picture. You may want to connect the camera to your computer and view your close-up images on the screen before you capture them. See page 5-5 for information on viewing and taking pictures from your computer.

You can take flash pictures within a range of 1.5 to 10 feet.

TIP

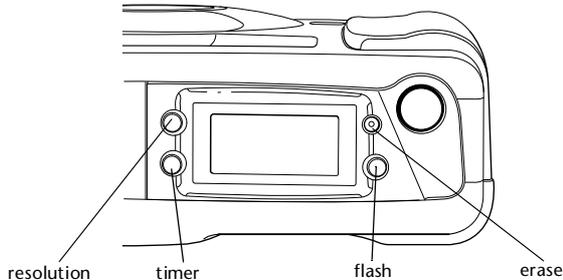
When you’re taking pictures outdoors, make sure the sun is at your back. In very bright light (at the beach or in snow, for example), your pictures may come out too light. You can use an ND filter to reduce the light. See page A-7 for information.

Adjusting Settings

You can adjust the following three settings on PhotoPC 500 using the control panel buttons on top of the camera:

- I Flash
- I Resolution
- I Timer

Flash and resolution settings remain in effect even after you turn off the camera.



NOTE

The controls return to their factory settings when you remove or change the batteries.

Flash

PhotoPC 500's built-in flash has four settings as listed below, which are effective within a range of 1.5 feet (Macro mode with PhotoPix LCD monitor) to 10 feet. Press the flash control button to cycle from one setting to another.

Auto

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


Red-eye Reduction

 The flash blinks on and off rapidly and then goes off. This prevents the light from shining directly off the subject's pupils and making them appear red. Use this setting when you take pictures of people or animals and you want the flash to go off automatically.

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 the sun.

Resolution

PhotoPC 500 has two resolution settings, high and standard. Press the resolution button to switch from one setting to the other. The settings appear on the control panel.

High resolution

Hi Camera captures images at 640×480 pixels. Your pictures include more detail, but the camera only holds 30 pictures (factory setting).

Standard resolution

S Camera captures images at 320×240 pixels. The camera holds 60 pictures, but the image size is smaller and contains less detail when enlarged.

You can switch freely between the two settings and store both standard and high resolution pictures in the camera. The camera's capacity varies accordingly. This is because a high resolution image uses twice as much memory as a

standard resolution image. For example, the camera holds 48 pictures if you take 12 at high resolution and 36 at low resolution.

TIP

Choose high resolution if you want "snapshot"-size or larger pictures. Standard resolution is sufficient for "wallet"-size pictures.

The following examples show the same image captured at standard and high resolution.



Standard resolution image
320 × 240 pixels



High resolution image
640 × 480 pixels

Timer

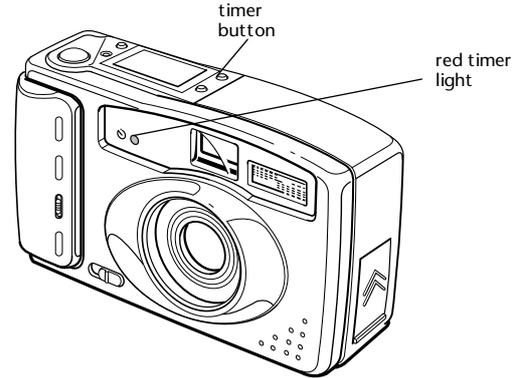


Setting the timer creates a 10-second delay between the time you press the shutter button and the time that the camera actually captures the image. This allows you to take a picture of yourself. The timer icon on the control panel flashes when you use the timer.

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-7 for information on attaching the camera to a tripod.)
- 2 Turn on the camera and wait until the red standby light stops flashing.
- 3 Press the timer button. The timer icon on the control panel flashes.

- 4 Press the shutter button. The red timer light on the front of the camera comes on and stays on for 7 seconds. Then it flashes three times.

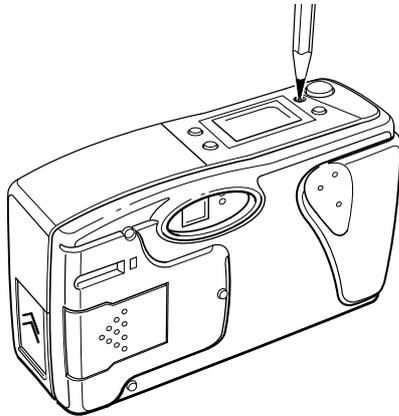


The camera beeps when the image is captured. The red standby light on the back of the camera flashes as PhotoPC 500 processes the image. When the red light stops flashing and the green ready light comes on, the timer is off and you can take another picture.

Erasing Pictures



If you don't want to keep the last picture you took, you can erase it from the camera's memory. Using a small pointed object such as a pencil, press the erase button on the top of the camera. The erase icon on the control panel flashes when you press the button.



After a few seconds, the last picture you took is erased from the camera's memory. The picture counter (number of pictures taken) decreases by one. You can continue pressing the button to erase more pictures, if you want.

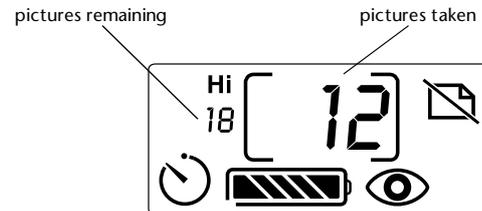
If you have the optional LCD monitor, you can use this button to selectively erase any picture on the camera. See page 11-7 for more information.

TIP

You can also erase all the pictures in the camera's memory. While holding down the erase button, press the timer button. The erase icon flashes until all the pictures are deleted.

Checking the Picture Counter

The large number in the center of the control panel shows how many pictures you have taken. The smaller number on the left below the resolution mode shows how many additional pictures you can take.



The number of pictures remaining depends on your resolution settings. A high resolution image uses twice the amount of memory in your camera that a standard resolution image uses. Therefore, if you switch between standard and high resolution, the number of pictures remaining changes. For example, if the number of pictures remaining is 4 at high resolution, it changes to 8 if you switch to standard resolution.

When the camera's memory is full, the number of pictures remaining is 0. The green ready light on the back of the camera goes off, the red standby light remains on, and you can't press the shutter button. You need to connect the camera to your computer and transfer the pictures. Then you can erase the images and start taking pictures again.

3 Connecting to Your Computer

When you're finished taking pictures you can connect the camera to your computer and transfer the images. This chapter covers the following:

- Connecting PhotoPC 500 to your computer
- Connecting with the optional LCD monitor
- Setting up the camera connection
- Adjusting auto shut-off
- Setting the camera's clock

Connecting PhotoPC 500 to the Computer

Make sure you do the following before you start:

- Locate the serial cable that came with your camera.
- Make sure the camera has finished processing.

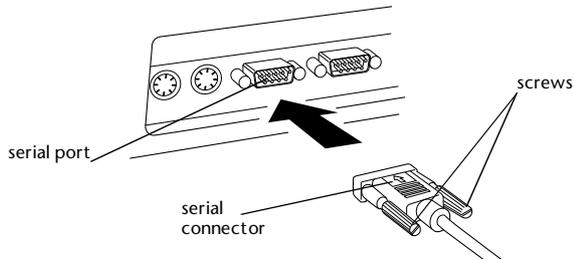
- If you have the optional AC adapter, use it when you connect the camera to your computer. See page A-5 for instructions on using the AC adapter with the camera.

NOTES

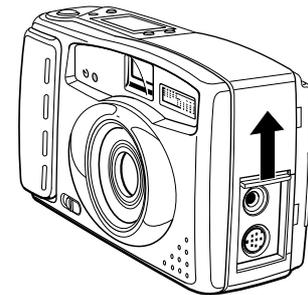
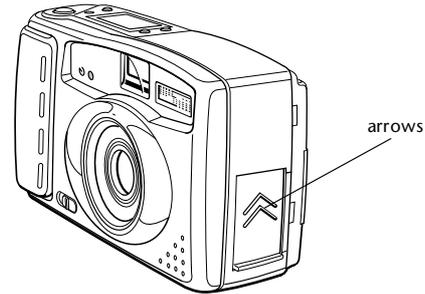
- The AC adapter should be available where you bought your PhotoPC 500. See page A-2 for information on ordering an AC adapter through EPSON.*
 - If you have a 25-pin serial port, you can use a 9- to 25-pin adapter with your cable connector. See page A-8 for instructions.*
-

Follow the steps below to connect the camera to the computer:

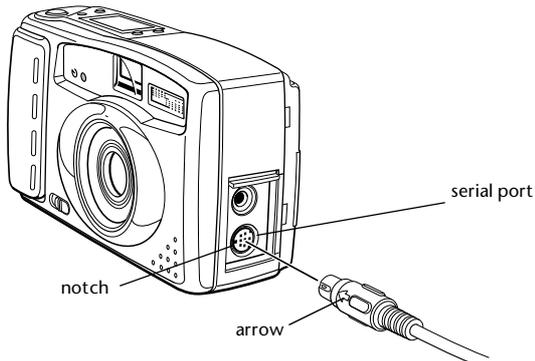
- 1 Locate a serial port on the back of your computer. You may have two serial ports labeled COM1 and COM2, or the ports may be labeled with icons.
- 2 Line up the serial connector on the cable with one of the serial ports on your computer, and insert the connector. Then tighten the screws.



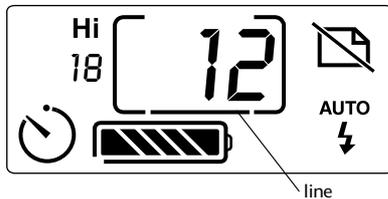
- 3 Locate the port cover on the side of the camera. Press on the arrows and slide the cover up to open it.



- Line up the arrow on the cable connector with the notch on the camera's serial port. Then insert the connector.



- Turn on the camera and your computer system. A line appears at the bottom of the picture counter on the camera's control panel.



NOTE

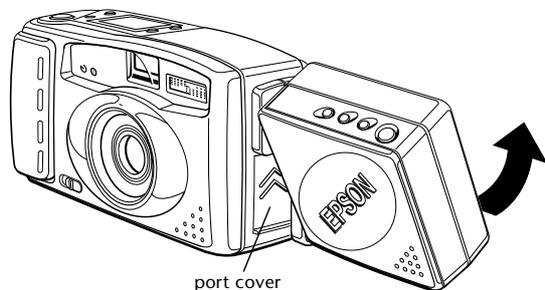
When the camera is connected to your computer, you can't use any of the control buttons or the shutter button on the camera. You can only operate these features through the computer.

The auto shut-off feature remains in effect when the camera is connected to your computer, but shut-off takes place after 5 minutes of inactivity instead of 60 seconds. To turn the camera back on, slide the power switch OFF and ON again, or use EPSON Photo! to turn on the camera by clicking the Controls tab, Setup tab, or Start tab. You can adjust the auto shut-off time by following the instructions on page 3-6.

Connecting with the Optional LCD Monitor

If you want to connect the camera to the computer while the optional EPSON PhotoPix LCD Monitor is attached, follow these steps:

- 1 Tilt the bottom of the EPSON PhotoPix LCD Monitor up to expose the port cover as shown.



- 2 Follow the steps on page 3-1 to connect the camera to the computer.

If the EPSON PhotoPix LCD Monitor is on when you connect the camera to the computer, it will turn itself off.

Setting Up the Camera Connection

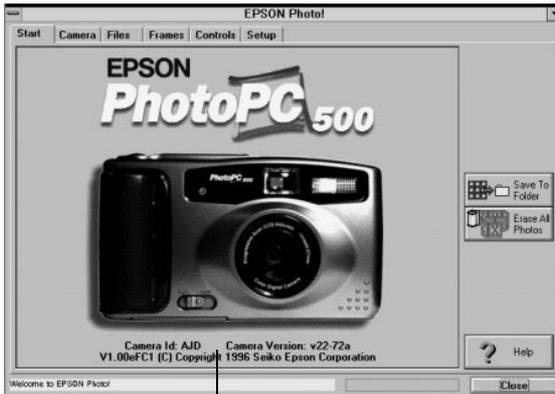
Now that you have connected the PhotoPC 500 to your computer, you can use the EPSON Photo! software to adjust the connection speed and port setting, if necessary. You can also see information about your camera displayed on the Setup screen.

Testing the Camera Connection

If the software displays a message in the status box indicating that the camera is not connected, follow these steps to test the connection:

- 1 Double-click the **EPSON Photo!** icon in the PhotoPC 500 program group.

EPSON Photo! opens with the following screen:



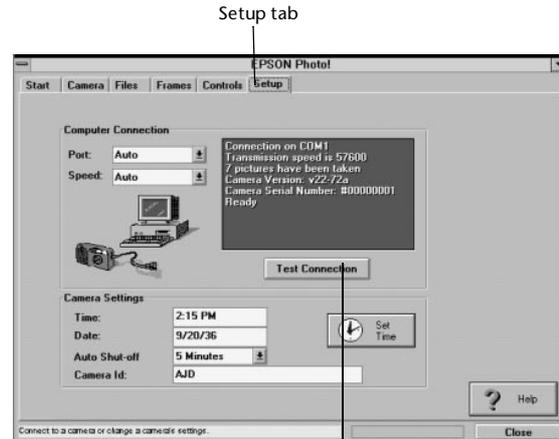
camera information and ID

If the camera is connected, the screen displays the camera's information and ID.

2 If EPSON Photo! does not detect the connection, try the following:

- I Check the cables to make sure they are securely attached.
- I Check to make sure the camera has not shut off automatically.

3 To check the connection after making any adjustments, click the **Setup** tab. The Setup screen appears.



click to test connection

- 4 Click the **Test Connection** button. If you see the camera information as shown on the previous page, the camera connection is complete. If you see an error message, you may need to change your port and speed settings.

Adjusting Port Settings

You can manually change the port or communication speed if EPSON Photo! is unable to detect the camera or download photos. Follow these steps:

- 1 Open the Setup screen as described on page 3-4.
- 2 Click the arrow to change the port setting. You can choose **Auto**, **COM1**, **COM2**, **COM3**, or **COM4**.

NOTE

In most cases, it is best to leave the Port setting on Auto because EPSON Photo! can detect the location of the camera automatically. When you change the port setting, you lose the connection between the camera and your computer.

If possible, you should keep the camera connected to the **COM1** or **COM2** port on the computer.

If you have a serial device connected to one port and an internal modem on the other, you can try **COM3** or **COM4**. If you get an error message, see page 12-3 for more information.

- 3 Click the arrow to change the speed setting.

NOTE

EPSON Photo! automatically chooses the fastest speed that works with your operating system. This may actually be too fast for the configuration of your port. If you get an error message while trying to download photos, you may need to choose a slower speed. For more information see page 12-4.

- 4 When you are finished, click **OK**.

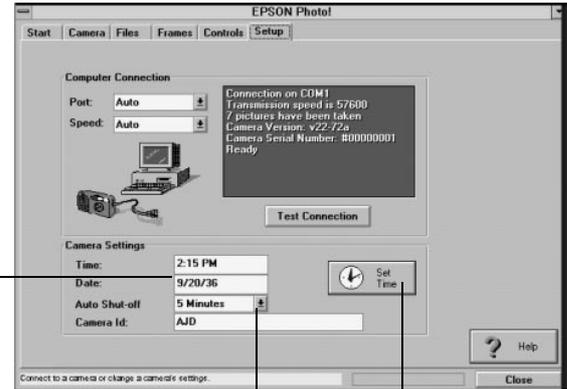
Adjusting Auto Shut-off

You can adjust the time the camera takes to shut off when it is connected to the computer. Follow these steps:

NOTE

The auto shut-off time can only be changed while it is connected to the computer. When the camera is not attached, the auto shut-off time is 60 seconds.

- 1 Connect the camera to the computer and open the Setup screen as described earlier in this chapter.
- 2 Click the arrow to select an auto shut-off time.



camera's
time
and date

click to change
auto shut-off time

click to set the
camera's clock

You can choose 1, 2, 3, 4, or 5 minutes for auto shut-off. The default is 5 minutes, so if you are afraid of running down your batteries, you might want to shorten this period.

Setting the Camera's Clock

PhotoPC 500 can record the time and date of your photos automatically. When you transfer the pictures to the computer, you can see exactly when each one was taken.

In order to have the time and date recorded, you need to set the camera's clock from the computer. The PhotoPC 500 clock will continue to keep time accurately until you replace the batteries; at that point you will have to connect the camera to your computer again and reset the clock.

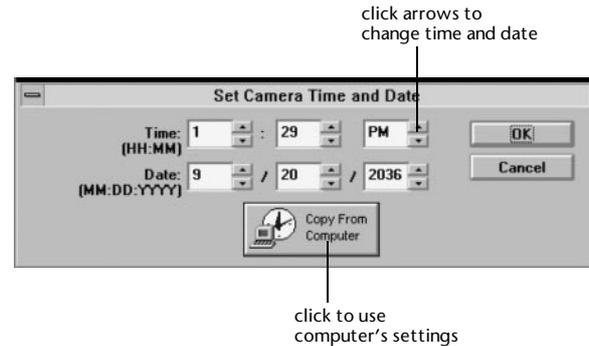
Follow these steps to set the camera's clock:

- 1 Connect the camera to the computer and open the Setup screen as described earlier in this chapter.

The Time and Date boxes show the current settings of your camera's internal clock.

- 2 Click the **Set Time** button.

You see a screen like the one below:



- 3 Click the **Copy From Computer** button to set the camera to the computer's date and time.

You can also click the arrows to change the setting or type the numbers for the time and date in the boxes.

- 4 When you are done, click **OK**. EPSON Photo! updates the time and date in your camera.

4

Downloading Pictures



When you are ready to transfer your images to your computer, read this chapter to find out which download method best suits your needs. This chapter describes the following:

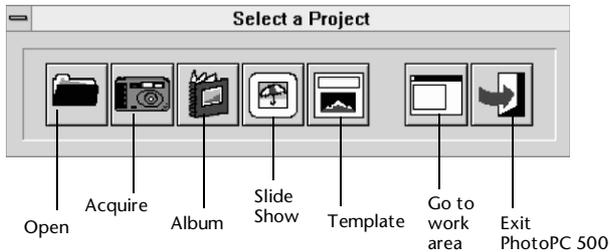
- I PhotoPC 500 imaging software transfer
- I Additional download methods

PhotoPC 500 Imaging Software Transfer

The EPSON PhotoPC 500 imaging software allows you to transfer photos and download them directly into an electronic photo album. You can open the pictures from the album for organizing, editing, enhancing, and printing.

Follow these steps to download pictures with your PhotoPC 500 imaging software:

- 1 Make sure your camera is connected to the computer and turned on, as described in Chapter 3.
- 2 Double-click the **PhotoPC 500** icon in the PhotoPC 500 program group. PhotoPC 500 asks you to select a project:



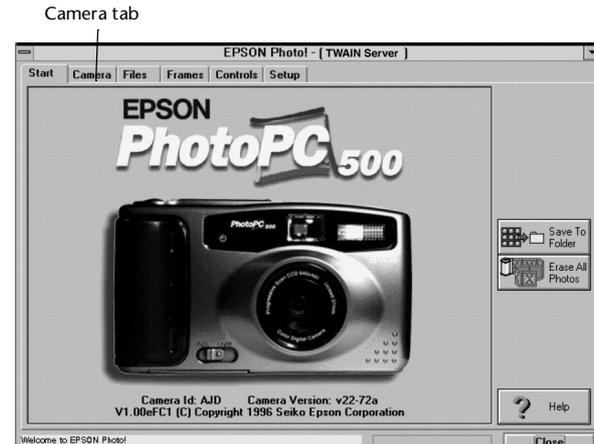
- 3 Click the **Acquire** button. PhotoPC 500 asks you to select an album for organizing your downloaded images.
- 4 Select an album from the Album menu or select **New Album** and click **Select**.

4-2 Downloading Pictures

If you select **New Album**, PhotoPC 500 asks you to name the album.



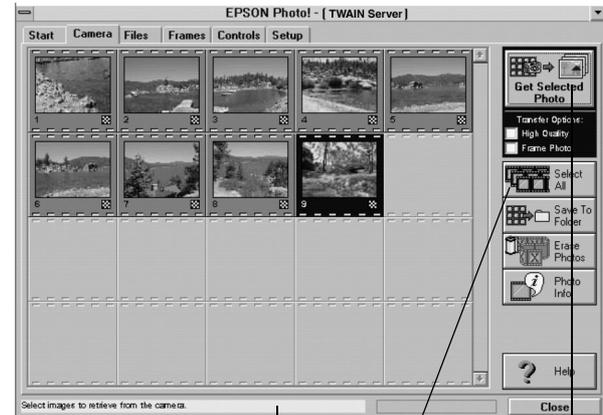
- 5 Type in a name for the album and click **OK**. PhotoPC500 asks you to select a source.
- 6 Make sure **Epson Digital Camera** is highlighted and click **Select**. The EPSON Photo! Start screen appears.



- 7 Click the **Camera** tab. If you already know which pictures you want to transfer by their image numbers, or if you want to transfer all the pictures, you do not need to wait for all the thumbnails to appear before you transfer images. If you do not know the image numbers, wait a few moments for the thumbnails to appear.
- 8 Select the photo you want to transfer, or select multiple photos by holding down the **Control** or **Shift** key and clicking on the photos you want. To select all the photos, click the **Select All** button.

NOTE

This transfer allows you to use the frame photo and high-quality options. The high-quality option resizes your high-resolution photo to 8.4" × 6.3" or your standard resolution image to 4.2" × 3.2," but it does not actually increase the resolution. The enlarged photo will not look as good as the original, especially when printed. This mode also slows down the transfer time and creates larger file. The frame option adds a permanent frame to your image. This feature reduces the size of your image. For information on selecting frames for the frame photo option, see Chapter 5.



status area click to select all the photos click to transfer photos

- 9 Click the **Get Selected Photos** button. The status area displays your progress as the images are transferred.
- 10 Click **Close** when all your pictures are transferred.
You see the images as thumbnails in your new PhotoPC 500 album. You can edit the images by opening them as described on page 6-5.
- 11 Save the album by clicking the **Save** button.

Additional Download Methods

Besides using the PhotoPC 500 imaging software, there are six additional methods for transferring images to the computer. Read the descriptions below to decide which one you may want to use.

NOTE

Some methods allow you to use the frame photo and high-quality options. The high-quality option resizes your high-resolution photo to 8.4" × 6.3" or your standard resolution image to 4.2" × 3.2," but it does not actually increase the resolution. The enlarged photo will not look as good as the original, especially when printed. This mode also slows down the transfer time and creates larger file. The frame option adds a permanent frame to your image. This feature reduces the size of your image. For information on selecting frames for the frame photo option, see Chapter 5.

TWAIN Transfer

You can use any TWAIN-compliant application, such as Adobe Photoshop or the PhotoPC 500 imaging software, to transfer images to your computer without saving them in

albums. The images are opened in the work area and you can save them as individual files, or add them to albums later. (See page 4-5.)

Direct Hard Drive Transfer

You can use EPSON Photo! as a stand-alone utility application to download your pictures quickly and directly to the hard drive. The file names in this method are long, so you'll need to find your pictures by their thumbnails. If you want an easier method of organizing your files, you should use the PhotoPC 500 transfer method, described on page 4-1. (See page 4-7 for instructions.)

Export Photo Transfer

You can use the EPSON Photo! export photo transfer feature to save the image in any of four file types as you transfer it to the computer. This transfer also lets you add a permanent frame to the image. (See page 4-11.)

Insert Object Transfer

You can download an image directly from the camera into Microsoft Word or PowerPoint®—or any other application that supports OLE (object linking and embedding) 2.0—by inserting it as an object. (See page 4-12.)

Drag and Drop Transfer

You should check your system's configuration before you use drag and drop. This method works best on fast systems that have a large amount of RAM. Your system also needs a screen resolution of greater than 640 × 480. Drag and drop allows you to grab a thumbnail from the EPSON Photo! Camera screen and drop the image directly into your document. (See page 4-13.)

NOTE

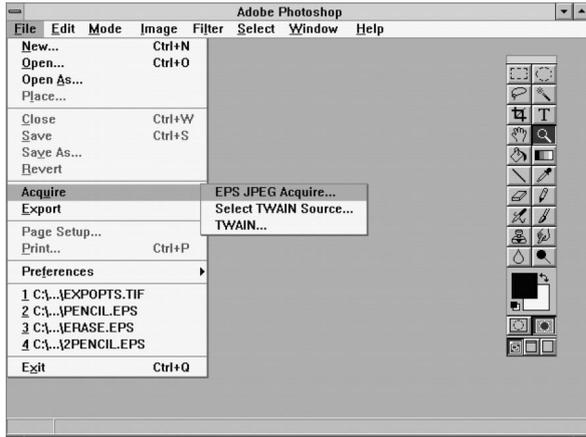
If you choose either the insert object transfer or the drag and drop transfer, you may also want to save the file in a PhotoPC 500 album as described on page 4-1. These methods allow the picture to appear in your document, but do not save it as a separate file.

Acquiring Images with TWAIN Programs

Follow these steps to acquire photos from the camera using TWAIN-compliant programs such as Adobe Photoshop™ or PhotoPC 500 imaging software. These steps are based on these two programs, so your software may have different commands or menus. See your software's help or documentation for more information.

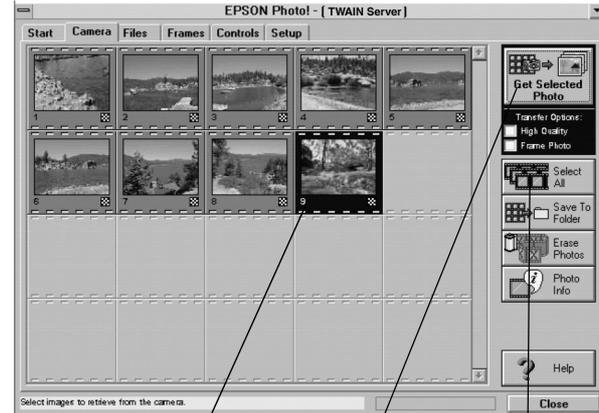
- 1 Open your application. Make sure the camera is connected to your computer and turned on.
- 2 Click **Select TWAIN Source** (or **Select Source**) in the File menu.
- 3 Select **Epson Digital Camera** as the TWAIN source.

- 4 Select **EPS JPEG Acquire** (or **Acquire**) from the File menu.



The EPSON Photo! Start screen appears.

- 5 Click the **Camera** tab and go to the Camera screen.



selected photo

click to transfer photos

click to select all the photos

- 6 Select the picture you want to use, or hold down the **Control** or **Shift** key and select multiple pictures. Click **Select All** to transfer all the pictures.

NOTE

If you want to put a permanent frame on your photo, click the **Frame Photo** box. If you have not selected a frame style yet, click the **Frames** tab and turn to page 5-8 for instructions on selecting a frame. Adding a frame reduces the size of your image and increases the transfer time.

- 7 Click the **Get Selected Photos** button. The status area displays the progress as the images are transferred. Then EPSON Photo! closes and you see your images in the work area.

Transferring Images Directly to the Hard Drive

You can transfer all your pictures to the hard drive or preview and select pictures to transfer with a few simple steps.

Transferring All Images

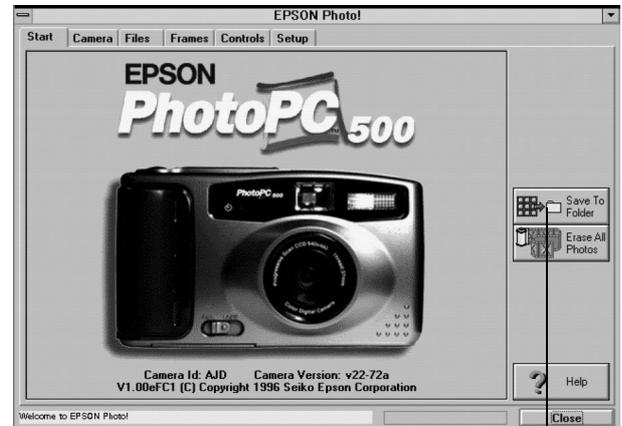
If you want to load all your pictures directly onto the hard drive, follow these steps:

- 1 In Windows 95 or Windows NT, 4.0 click **Start**, point to **Programs**, and then select **PhotoPC 500**.

From the Windows 3.1 or Windows NT 3.5 program manager, double click the **PhotoPC 500** program group.

- 2 Double-click the **EPSON Photo!** icon.

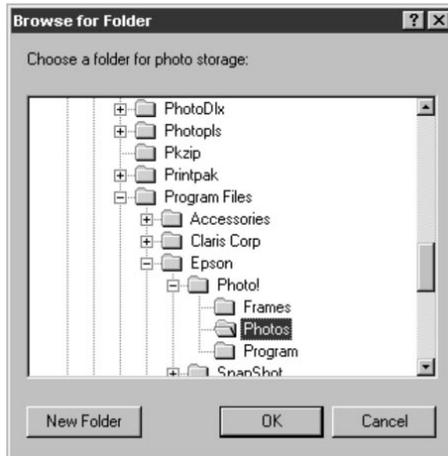
The EPSON Photo! Start screen appears:



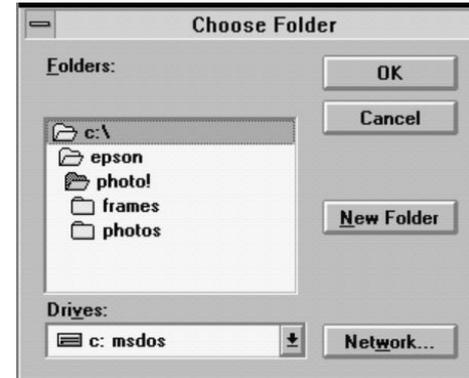
click to download images

- 3 Click the **Save to Folder** button.

In Windows 95, the Browse for Folder dialog box appears.



In Windows 3.1, the Choose Folder dialog box appears.



- 4 Select a folder for your photos.

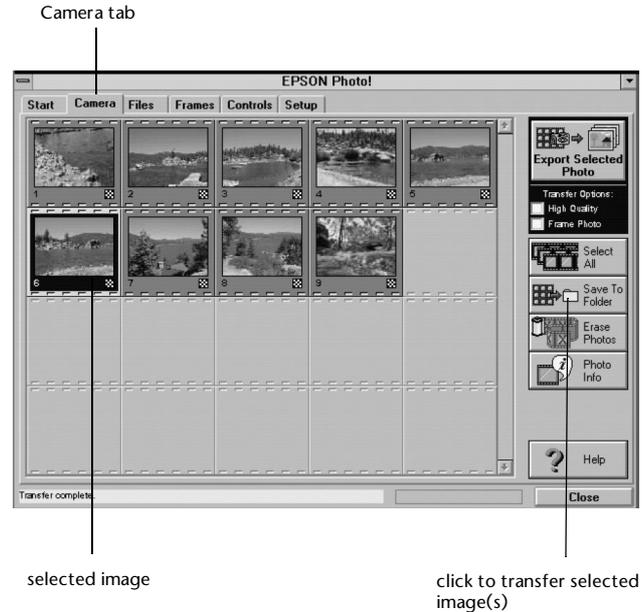
If you want to create a new folder, select the directory you want to place the folder in. Click the **New Folder** button. Type the name of the new folder in the dialog box and click **OK**. Then select the new folder.

- 5 Click **OK**. The status area displays your progress as the images are transferred to the hard drive.
- 6 The images are saved in JPEG format. You can view them on the Files screen as described on page 5-6.

Transferring Selected Images

You can preview and select the images you download by following these steps:

- 1 Open EPSON Photo! as described on the previous page.
- 2 Click the **Camera** tab to view the Camera screen. It takes a few moments for the thumbnails of your images to appear.
- 3 Click a thumbnail to select an image you want to download. To select more than one image, hold down the **Shift** key or **Control** key and click the photos you want.
- 4 Follow steps 3 to 5 on page 4-8 to transfer the images you have selected.

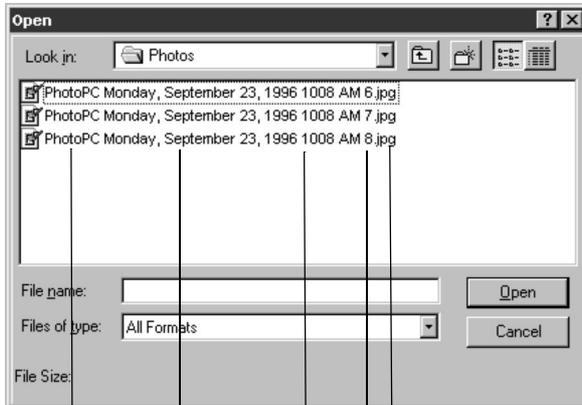


Reading File Names

EPSON Photo! uses the time, date, and photo number for your images' names. The format for these names is explained below:

Windows 95 and Windows NT follow this naming format:

PhotoPC Monday, September 23, 1996 1008 AM 7.jpg



file source
(PhotoPC500)

date

time

image
number
file extension
(JPG)

File names in Windows 3.1 follow this format:

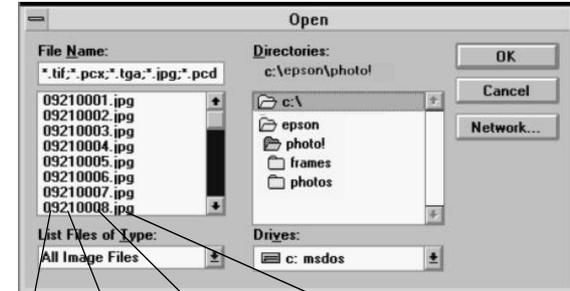
MMDDNNNN.JPG

MM = month

DD = date

NNNN = image number

JPG = JPEG file extension



month
(September)

date
(21st)

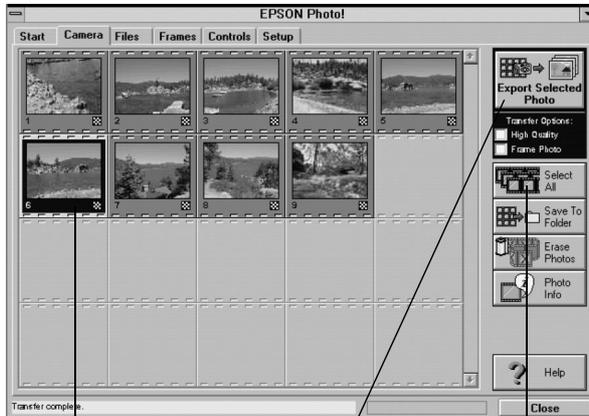
image number
(picture 8)

file extension
jpg (jpeg)

Exporting Images

If your software application is not TWAIN compliant and you want to download your photos in format that it recognizes, you can use EPSON Photo! as a stand-alone utility program to export your files in any of four file types.

- 1 Open your EPSON Photo! software and click the **Camera** tab to open the Camera screen.



selected picture

click to export photo

click to select all photos

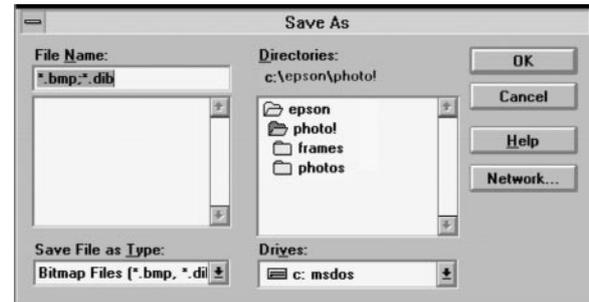
- 2 Click the picture you want to export.

The selected photo is highlighted in yellow and blue and the **Export Selected Photo** button is active.

NOTE

If you want to put a permanent frame on your photo, click the **Frame Photo** box. If you have not selected a frame style yet, click the **Frames** tab and turn to page 5-8 for instructions on selecting a frame. Adding a frame reduces the size of your image and increases your transfer time.

- 3 Click the **Export Selected Photo** button. The **Save As** dialog box appears.



4 Select the file type for the image from the Save File as Type pull-down menu. You can save your image in any of the following formats:

- I Bitmap: BMP, DIB
- I JPEG
- I PCX

5 Type in a name for your file.

6 Choose the directory where you want to save the file and click **OK**.

NOTE

You cannot open or edit the exported photos in EPSON Photo!. Use PhotoPC 500 or another application to view or edit the exported images.

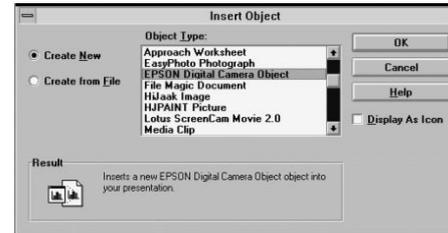
Inserting Images as Objects with OLE

You can use your images in applications that support OLE (object linking and embedding) 2.0 or higher. Follow these steps to insert a photo as an object:

1 Open the document you are inserting the picture in.

2 Make sure your camera is connected to the computer and turned on as described in Chapter 3.

3 Select **Object** from the Insert menu. You see a list of sources.



4 Select **Epson Digital Camera** as the Source and click **OK**. The EPSON Photo! Start screen appears.

5 Click the **Camera** tab to view the Camera screen.

6 Click the image you want to insert. It is highlighted in yellow and blue.

7 Click **Get Selected Photo**. The image appears in your document.

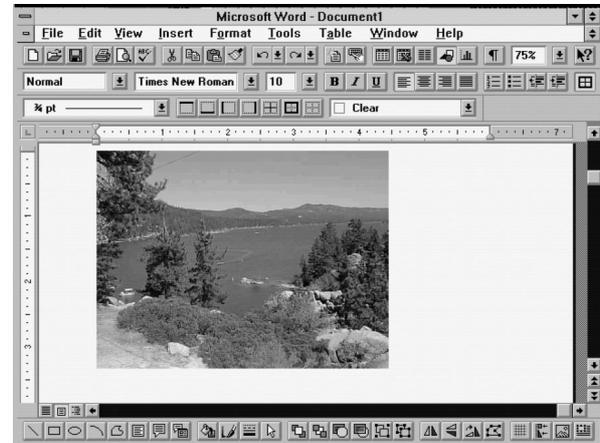
Using Drag and Drop

If your application supports OLE (object linking and embedding) 2.0 or higher you can use this method to transfer your pictures from your camera into your documents. Follow these steps:

NOTE

You can only use drag and drop if your screen resolution is greater than 640 × 480 pixels. Some applications do not support the millions of colors in your Photo PC 500 images. If you drag and drop your picture into one of these programs and it appears blotchy, try transferring your picture into PhotoPC 500 and changing the image mode to indexed, 256 colors as described on page 7-10. Then import or cut and paste the image into the application as explained in Chapter 9.

- 1 Open the document you want to place a picture in.
- 2 Make sure the camera is connected to your computer and turned on as described in Chapter 3.
- 3 Open EPSON Photo! and click the **Camera** tab to view the Camera screen.
- 4 Click the center of the image you want to insert and drag it to your document, holding down the button on your mouse while you drag.
- 5 Release the button of your mouse when the object is placed in the document where you want it. The image appears in your document.





Using the Camera with Your Computer

You can adjust the camera controls from your computer just as you would by using the control panel. You can even take a picture from the computer while viewing a live preview of your subject, which works well when you are taking portrait photos or close-ups with a macro lens. This chapter includes the following information about using the camera with your computer:

- I Using the camera controls
- I Erasing pictures from your camera
- I Setting the shutter speed
- I Taking pictures from the computer
- I Using file folders
- I Setting up frames for your photos

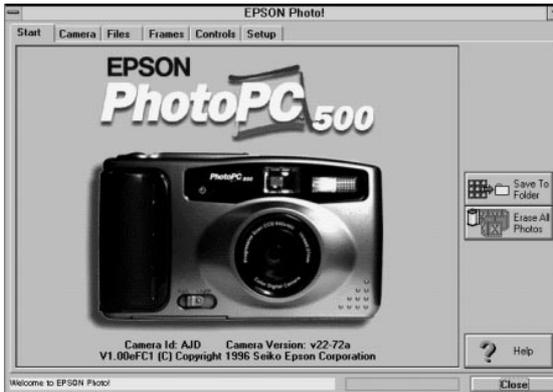
Using the Camera Controls

When the camera is connected to your computer, you cannot adjust the controls on the camera's control panel. Instead, you can use EPSON Photo! by following these steps:

- 1 Make sure the camera is connected to your computer and turned on, as described in Chapter 3.
- 2 In Windows 95 or Windows NT 4.0 click **Start**, point to **Programs**, then select **PhotoPC 500**.

From the Windows 3.1 or Windows NT 3.5 Program Manager, double-click the PhotoPC 500 program group.

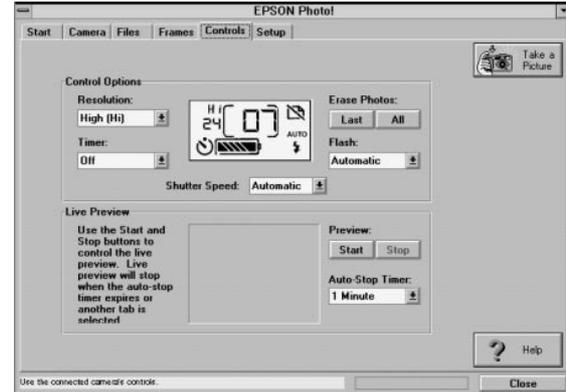
The Start screen appears:



- 3 Click the **Controls** tab to view the Controls screen, shown to the right.

The control panel lets you do the following:

- I Check the battery icon to see how much power is left in the camera.
- I Change the flash and resolution settings just as you do on the camera by clicking on the arrows and highlighting the settings you want to use.



See page 2-2 for more information on using the camera's controls.

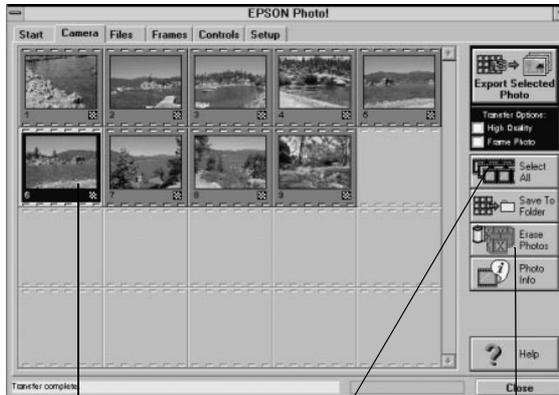
Erasing Pictures from Your Camera

After you have viewed your pictures and transferred them to your computer, you can erase them from your camera using either the Camera screen or the Controls screen.

Erasing Photos from the Camera Screen

Follow these steps to erase photos from the camera using the Camera screen:

- 1 Open EPSON Photo! as described on page 5-1.
- 2 Click the **Camera** tab to view the Camera screen.



selected photo

click to select all
photos

click to erase
photos

- 3 If you want to erase all of your photos, click **Select All**.

If you want to erase one of your photos, click the photo to select it. Select more than one by holding the **Control** or **Shift** key and clicking the images you want.

- 4 Click **Erase Photos**. A message box appears asking to confirm your selection.

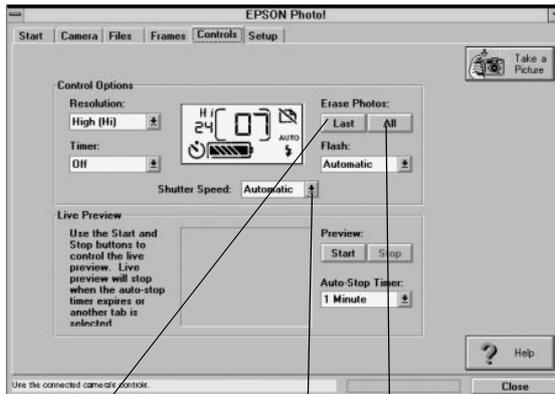
- 5 Click **Yes** to erase the photos in your camera or click **No** to cancel.

Erasing Photos from the Controls Screen

Follow these steps:

- 1 Open EPSON Photo! as described on page 5-1.

- 2 Click the **Controls** tab to view the Controls screen.



click to erase last photo

click to change shutter speed

click to erase all photos

- 3 Under Erase Photos, click **All** to erase all the photos or click **Last** to erase the last image that you captured.

A message box asks you to confirm your selection.

- 4 Click **Yes** to erase the photos or **No** to cancel.
- 5 Click **Close** when you are finished.

5-4 Using the Camera with Your Computer

Setting the Shutter Speed

When the camera is connected to the computer, you can use the Controls screen to adjust the shutter speed. Slower shutter speeds allow more light to strike the lens; faster speeds allow you to take “stop-action” pictures of moving subjects. Shutter speed settings remain in effect only while the camera is connected to your computer. The camera adjusts the speed automatically when it is not connected.

NOTE

When you adjust the shutter speed manually, you can't use the camera's flash.

Follow these steps to adjust the shutter speed:

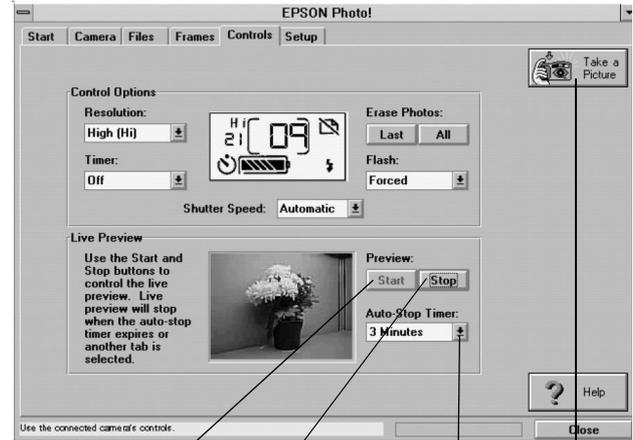
- 1 Open EPSON Photo! as described on page 5-1.
- 2 Click the **Controls** tab to view the Controls screen
- 3 Select the shutter speed you want to use from the Shutter Speed pull down menu.

The camera uses the shutter speed you select as long as it is connected to the computer.

Taking Pictures from the Computer

You can take pictures while you are controlling the camera from your computer. This allows you to see a live preview of your subject and get the perfect shot. Follow these steps:

- 1 Connect the camera to the computer as described in Chapter 3.
- 2 Position the camera facing the subject. Using a tripod will give you the most control when setting up your shots. See page A-7 for instructions.
- 3 Turn on both your camera and your computer system.
- 4 Double-click the **EPSON Photo!** icon.
- 5 Click the **Controls** tab to view the Controls screen.



- click to start live preview
- click to stop live preview
- click to adjust preview time
- click to take a picture

- 6 Press the **Start** button under Preview to display the image on the screen.
- 7 You may need to move the camera or the subject until you see the image you want to capture in the window. The image is updated every eight to ten seconds, depending on your communication speed.

NOTE

*The Live Preview has an auto-stop timer that shuts the preview off after a short time to save batteries. You can adjust this time by clicking the button and highlighting the time you want to use. If the timer stops the preview, just press **Start** and the image will appear again.*

- 8 When you see the image you want to capture on the screen, press the **Take a Picture** button to snap the shutter.
- 9 Click **Stop** to stop the preview. Transfer your picture to the computer as described in Chapter 4 and turn off the camera.

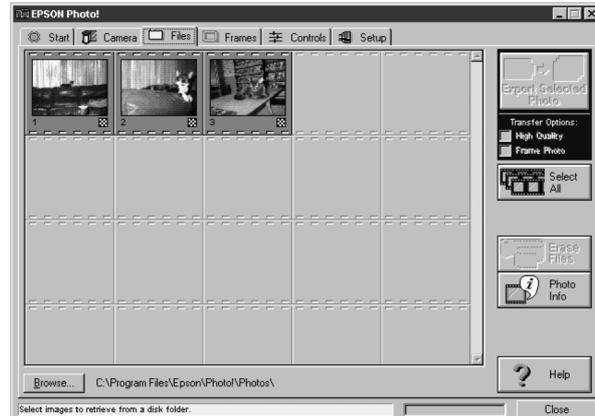
Using File Folders

EPSON Photo! allows you to view and erase picture files and their information. The file folders are useful for finding pictures you have transferred using the export photo method, described on page 4-11 or the direct hard drive transfer, described on page 4-7.

Viewing Files in Folders

Follow these steps to view thumbnails of files in folders:

- 1 Open the EPSON Photo! software as described on page 5-1. Click the **Files** tab to view the Files screen.



The default folder is EPSON\Photo!\Photos.

- 2 If your photos are not on the screen, click **Browse** and select the folder where your photos are located. Your images will appear as miniature “thumbnails” in the boxes on the screen.

- 3 Use the arrows to scroll through additional images.

Displaying File Information

Follow these steps to see information about the images you have saved in folders:

- 1 Open the folder where your image file is located.
- 2 Select the image you want to see information for. (The selected photo is highlighted with yellow and blue.)
- 3 Click the **Photo Info** button to view the selected photo's information. If the information is available, you see the date, time, shutter speed, flash mode, and image resolution displayed.

NOTE

You can also view image information by clicking a thumbnail with the right mouse button.

Erasing Files from Your Hard Drive

Follow these steps to erase image files stored on your hard drive:

- 1 Open EPSON Photo! as described on page 5-1.
- 2 Click the **Files** tab to view the Files screen.
- 3 Select the photo you want to erase or select multiple photos by holding down the **Control** or **Shift** key and clicking on the pictures. To select all the photos, click the **Select All** button.

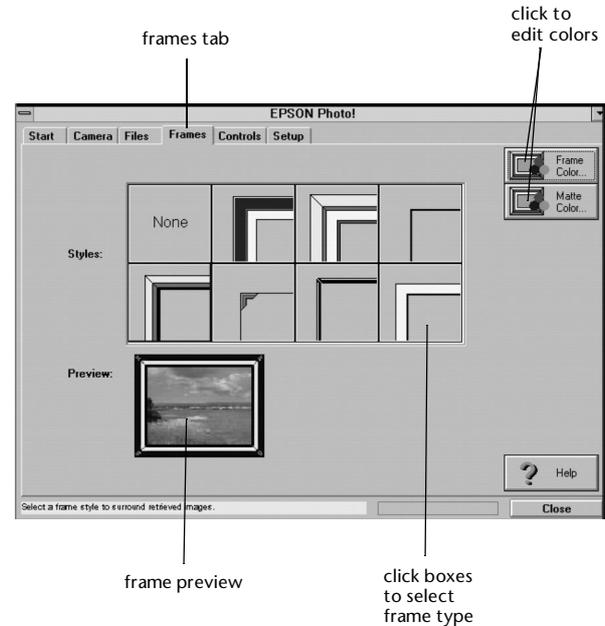
The selected images are highlighted in blue.

- 4 Click the **Erase Files** button. A message appears asking you to confirm the deletion.
- 5 Click **Yes** to erase the image files or click **No** to cancel.

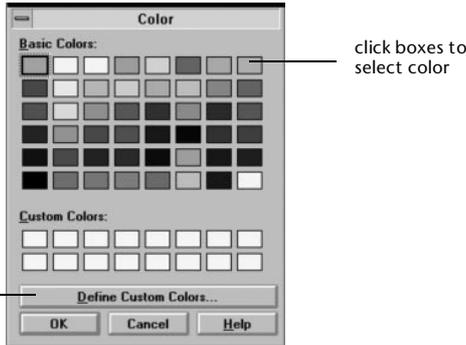
Setting Up Frames for Your Photos

You can set up permanent frames to add to your images with EPSON Photo!. Follow these steps:

- 1 Open your EPSON Photo! software. Click the **Frames** tab to open the Frames screen.
- 2 Click on the frame style you would like to use. A preview appears in the window.
- 3 If you want to change the color of the frame or the matte, click **Frame Color** or **Matte Color**.



The following screen appears:

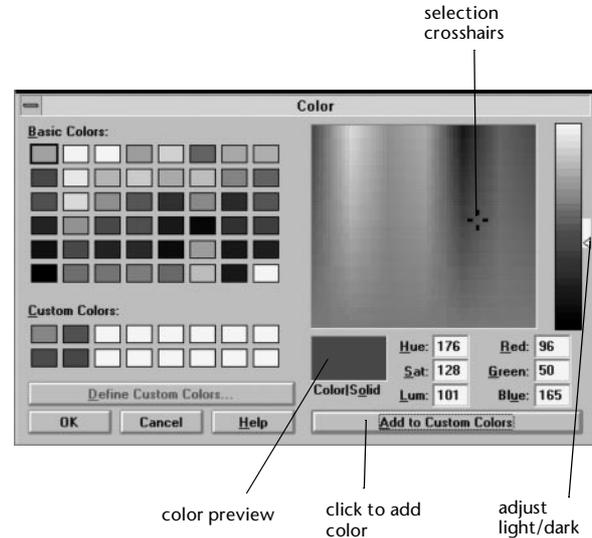


- 4 Select the color you want and click **OK**.
- 5 If you want to define your own color, click **Define Custom Colors** to view the color palette, as shown on the right.

- l Move the crosshairs to select a color.
- l Move the arrow on the light/dark scale to make the color darker or lighter.
- l Type in numbers to adjust the hue, saturation, luminescence, red, green, and blue values for the color.

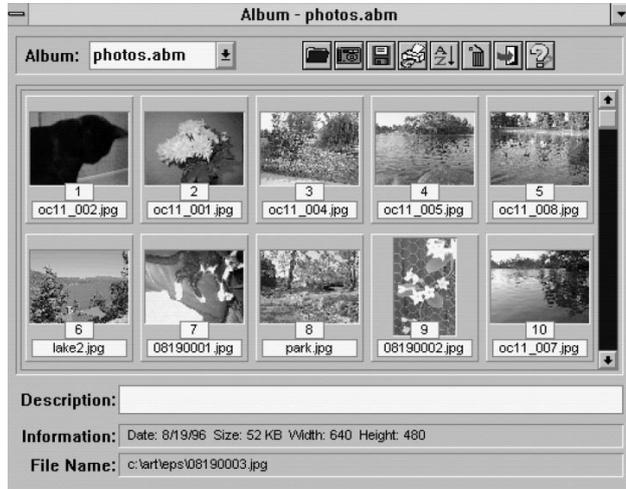
A preview of your color appears in the Color/Solid window.

- 6 Click **Add to Custom Colors** to add your selected color. Your new color appears in a box under Custom Colors.
- 7 Select your new color and click **OK**. The frame or matte appears in your selected color.



6

Albums: Managing Files in PhotoPC 500



You can use PhotoPC 500 to organize all the pictures you take with your camera. This chapter describes how to use the PhotoPC 500 features in the following sections:

- | Transferring saved images to albums
- | Working with your albums
- | Sorting your albums
- | Opening image files
- | Printing your pictures
- | Saving your pictures
- | Viewing your album as a slide show
- | Using your album as a screen saver

Transferring Saved Images to Albums

If you didn't acquire your photos with PhotoPC 500, you can still open the images you downloaded with your EPSON Photo! software and save them in albums. Follow these steps:

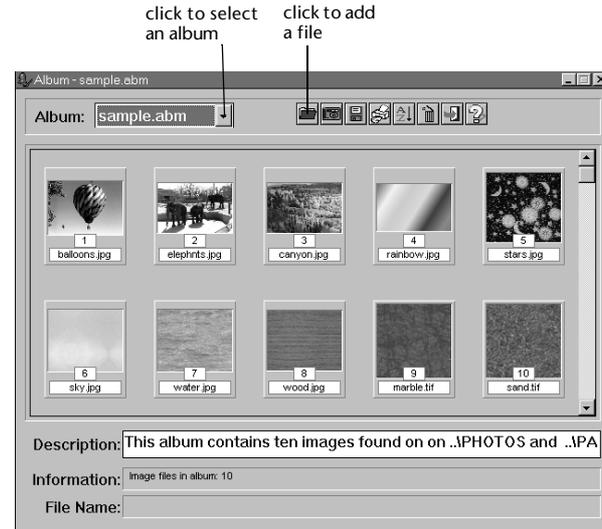
- 1 In Windows 95 or Windows NT 4.0, click **Start**, point to **Programs**, and then point to **PhotoPC 500** to open the application.

From the Windows 3.1 or Windows NT 3.5 Program Manager, double-click the **PhotoPC 500** icon in the PhotoPC 500 group to start the application. PhotoPC 500 asks you to select a project.



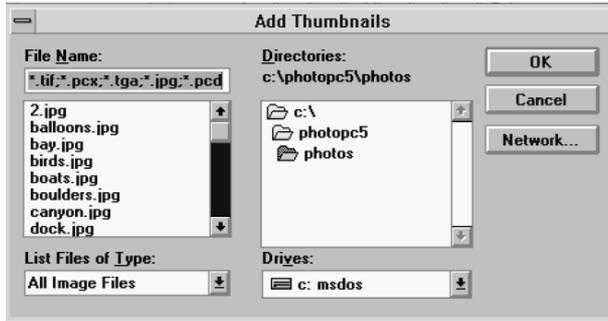
- 2 Click the **Album** button  to open one of your albums or to create a new album.

The Album opens as shown:



- 3 Click the down arrow to select a different album or select **New Album** to create a new album.
- 4 Click the **Add** button  to add one of your image files.

The Add Thumbnails dialog box appears.



- 5 Select a file to add to your album and click **OK**. The image appears in your album.
- 6 Click the **Save** button to save your album . If you chose **New Album**, the Save New Album dialog box appears.



- 7 Type a name for the album and click **OK**.

Working With Your Albums

PhotoPC 500 Albums store and display your images, just like the photo albums used for printed snapshots. You can organize your pictures by subject matter or date, or in any way you want. Albums let you view miniature “thumbnail” versions of your images, along with image information.

- 1 To open your album, click the Album button  or choose **Open Album** from the File menu.
- 2 The Album window appears, with miniature “thumbnail” representations of your image or images, as shown on the next page.



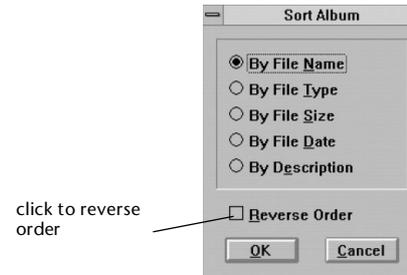
- I Click an image to select it. The Information box displays image file information.
- I Double-click a thumbnail to open the image.
- I To add pictures, click the **Add** button  and choose the image or images you want.
- I Click the down arrow at the top of the screen to see a different album or create a new album.

- I Click and drag a thumbnail to rearrange the images in the album.
 - I Click the **Acquire** button  and follow the steps on page 4-1 to download photos directly to your album.
 - I Click an image and click the **Delete** button  to remove it from the album. The image file itself is not affected.
 - I Print out the whole set of thumbnails by clicking the **Print** button. 
- 3 Enter a description for the album (up to 36 characters) in the description box, if you want.
 - 4 Click the **Save** button  to save your album.
 - 5 If you're finished working with albums, click the **Exit** button .

Sorting Your Albums

PhotoPC 500 gives you several methods for sorting the images in your albums. You can sort them by file name, file size, file type, file date, or description. Follow these steps to organize your photos:

- 1 Open the album you want to sort.
- 2 Click the **Sort** button. The Sort dialog box appears as shown on the right.
- 3 Select the sort method you want to use.
- 4 If you want the images to appear in reverse order (Z to A instead of A to Z, for example), click the **Reverse Order** box.
- 5 Click **OK** when you are finished. The images appear in the order you have selected.



Opening Image Files

With the PhotoPC 500 imaging software, you can have several images open at the same time (depending on your computer's memory), each in its own window. The window's title bar is highlighted if it contains the active image (the one you're currently working on). You can even open the same image in two windows; this lets you experiment while you keep the original picture in view.

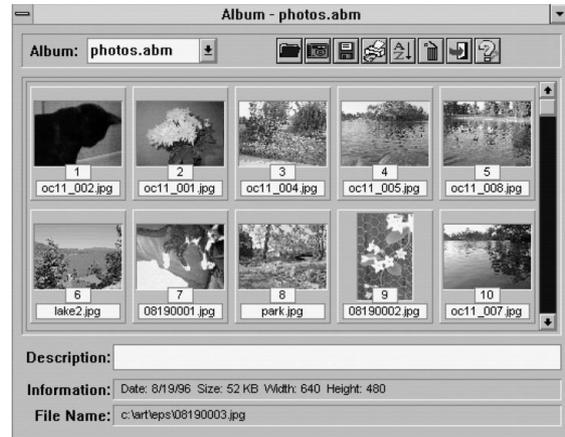
You can open an image using either the **Album** button or the **Open** button.

Opening an Image in an Album

When you use albums, you can see small thumbnail versions of your pictures. You can easily choose the image you want, even if you don't remember the file name. Follow these steps:

- 1 Click the **Album** button  or choose **Open Album** from the File menu. The Album window appears, as shown to the right.
- 2 Double-click the thumbnail to open the image you want.
- 3 If the picture you want to open is in a different album, click the Album arrow at the top of the window and choose a different album.

- 4 When you have finished opening the images you want to work with, close the Album window. Your images appear in the PhotoPC 500 workspace where you can edit them.



Opening an Image with the Open Button

If you want to open an image that's not in an album, you can use the **Open** button. Follow these steps:

- 1 Click the **Open** button . The Open dialog box appears.
- 2 Choose the image file you want to open. The PhotoPC 500 imaging software lets you open the following types of image files:
 - | BMP
 - | TGA
 - | TIF
 - | JPG
 - | PCX
 - | PCD
 - | GIF

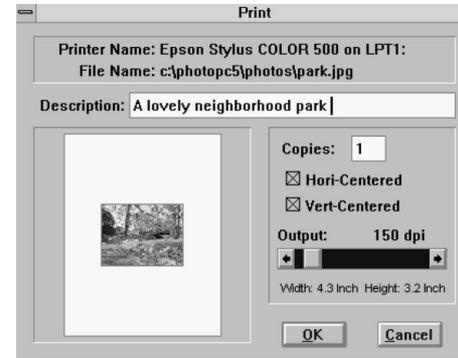
NOTE

For more information on image file formats, see page 6-8.

Printing Your Pictures

When you want to print out your image, follow these steps:

- 1 Open the image you want to print.
- 2 Click the **Print** button  or choose **Print** from the File menu. The Print dialog box appears:



- 3 If you want to place a title or caption below the picture, type it in the Description box.
- 4 Enter the number of copies you want to print. (This option is available only if your printer supports it.)

- 5 If you want to change the position of your image on the page, move the picture in the window.
- 6 Use the **Hori-centered** and **Vert-centered** checkboxes to indicate if you want to center your image on the page horizontally, vertically, or both.
- 7 Drag the slider if you want the printed image to be larger or smaller than the original image.

NOTE

The resolution automatically increases if you reduce the size and decreases if you enlarge it.

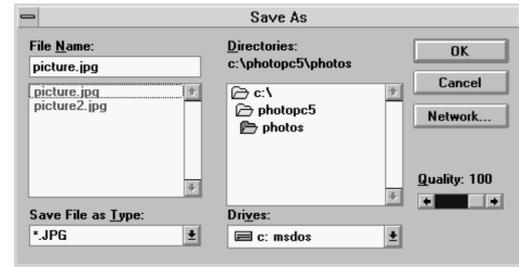
- 8 Click **OK** when you're ready to print.

Saving Your Pictures

Follow these steps to save a picture in the PhotoPC 500 imaging software:

- 1 Click the **Save** button  or choose **Save As** from the File menu.

The first time you save your image file, the Save As dialog box appears:



- 2 Choose the drive and directory where you want to save the file, or leave it in the default location (C:\PhotoPC5\Photos).
- 3 Choose the file type. The PhotoPC 500 imaging software lets you choose from five file formats. Each format has a different internal structure and use:
 - 1 **JPG**. JPEG is the default format and produces small, compressed files. When you save in this format, the screen displays a slider that allows you to choose a degree of compression. For best quality, choose 100 percent.

- I **BMP**. This is the “native” format for Windows bitmap files. This format is the best for importing files into other Windows applications.
 - I **TIF**. TIFF files can be used on many types of systems.
 - I **PCX**. The PCX format lets you use your pictures in many Windows and DOS programs.
 - I **TGA**. Targa files were originally designed for specialized hardware and software.
- 4 Type a name for the file and click **OK**.

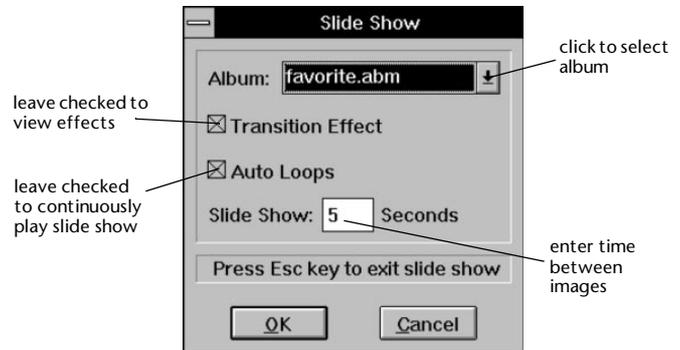
Viewing Your Album as a Slide Show

You can turn any album into a slide show that you can share with friends, co-workers, and family members. For instructions on how to create an album, see pages 4-1 and 6-2.

Follow these steps to turn your album into a slide show:

- 1 Click the Slide Show button . You see the Slide Show dialog box (shown below).

- 2 Click the down arrow and choose the album you want to use.
- 3 When you leave the **Transition Effect** box checked, PhotoPC 500 displays various fades and dissolves between images. If you don't want these effects, click the **Transition Effect** box to remove the check.



- 4 When you leave the **Auto Loops** box checked, PhotoPC 500 plays the slide show continuously (until you press **Esc**). To play the slide show only once, click the **Auto Loops** box to remove the checkmark.

- 5 Enter the number of seconds you want to see each image.
- 6 Click **OK** to start the show. You can press **Esc** to exit the show at any time.

Using an Album as a Screen Saver

A screen saver is like a slide show that plays whenever your computer is idle for more than a few minutes. You use the Windows Control Panel to turn an album into a screen saver.

NOTE

If you need help creating a screen saver, see your Windows documentation.

Follow these steps:

- 1 Open the Windows Control Panel.
- 2 If you're using Windows 95, select **Display**, and then click the **Screen Saver** tab.

If you're using Windows 3.1, double-click **Desktop**. You see the Screen Saver dialog box.

- 3 Click the Screen Saver Name down-arrow to display the list, and choose **PhotoPC 500 Slide Show**.
- 4 Click **Settings** or **Setup**.
- 5 Choose the album you want to use, and set the other options if you want. Click **OK** when you're finished.
- 6 Set the Wait or Delay time.
- 7 Click **Preview** or **Test** if you want to see a sample of your screen saver.
- 8 Click **OK** when the screen saver is set up the way you want.



Editing Photos in PhotoPC 500

Your PhotoPC 500 imaging software lets you edit your images to improve their composition, size, or appearance. You can crop edges you don't want, copy and paste parts of one image into another one, or convert the image type so you can print it in black and white or use it in an application. This chapter includes instructions for:

- | Viewing images and image information
- | Selecting part of your image
- | Cutting, Copying, and Pasting
- | Cropping
- | Resizing
- | Rotating
- | Flipping an image or selection
- | Converting image types

Viewing Images and Image Information

To get a close-up look at part of your open image, you can use the **Zoom** tool or **Zoom In** command on the View menu. You can also use the View menu to display information about your image and to hide the Tools Bar and Status Bar on your PhotoPC 500 screen.

NOTE

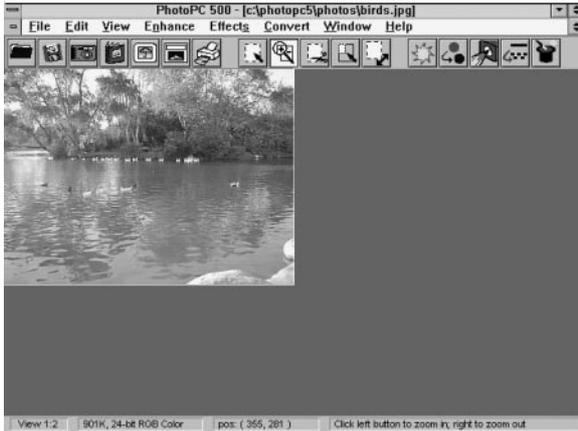
*You are not actually changing the image size when you zoom in. If you want to change the size, use the **Resize** tool or the **Image Size** command on the Edit menu. See page 7-7 for instructions.*

Zooming In and Out with the Zoom Tool

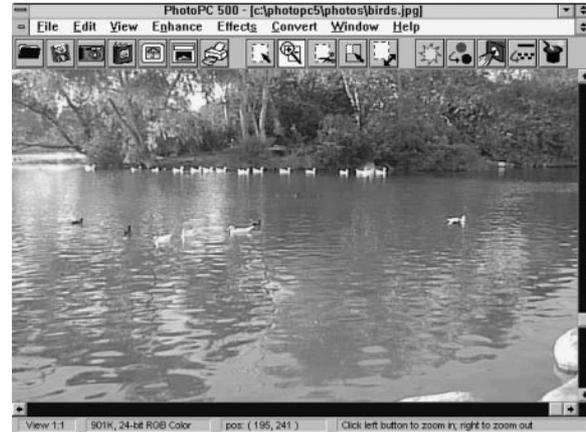
Follow these steps to get a close-up look at your image and then return to your original view.

- 1 Click the **Zoom** tool .

- 2 Click the left mouse button on the part of your image that you want to see in detail.



The image is magnified to twice its size.



- 3 Continue clicking to increase the magnification. You can increase it up to 16 times its original size.
- 4 To decrease the magnification, click the right mouse button on the image. You can continue to click the right mouse button to zoom out even more.

Using the Zoom Commands in the View Menu

Follow these steps to zoom in and out on your image from the View menu:

- 1 Choose **Zoom In** or **Zoom Out** from the View menu.

You see a list of magnification ratios:

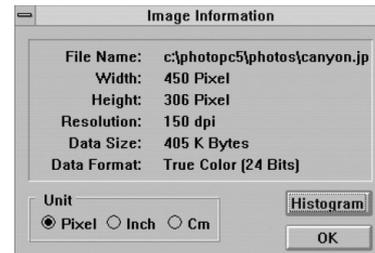
View	
Zoom In	1 : 1
Zoom Out	1 : 2
Full Screen	Ctrl+W 1 : 3
Image Information...	Ctrl+I 1 : 4
	1 : 5
✓ Show Tools Bar	Ctrl+L 1 : 6
✓ Show Status Bar	Ctrl+N 1 : 7
	1 : 8
	1 : 9
	1 : 10
	1 : 11
	1 : 12
	1 : 13
	1 : 14
	1 : 15
	1 : 16

- 2 Choose the degree of magnification or reduction you want.

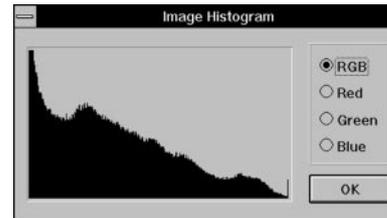
Viewing Image Information

Choose **Image Information** from the View menu to display an information box like the one below.

- 1 Select the units you want to use for displaying the image's dimensions. You can select pixels, inches, or centimeters.



- 1 Click **Histogram** to display a graph like the one below:



The histogram shows the brightness of the overall image and each of the three color channels (red, green, and blue) that make up the image. The vertical axis of the graph

represents the number of pixels. The horizontal axis represents the brightness level, from the darkest pixels at the left to the brightest pixels at the right.

Click **OK** when you're finished with each information box.

NOTE

When you enhance an image, change its size, or convert it to another file type, PhotoPC 500 shows your changes in the Image Information box. The histogram reflects changes in brightness and contrast, hue and saturation, tone, and sharpening or blurring.

Hiding the Tools Bar and Status Bar

To create more space for displaying images on your PhotoPC 500 screen, you can hide the **Tools** bar or **Status** bar. Follow these steps:

- 1 From the View menu, choose **Show Tools Bar** or **Show Status Bar**. The checkmark disappears from the menu.
- 2 To restore the Tools or Status Bar, choose **Show Tools Bar** or **Show Status Bar** again. The checkmark reappears.

Selecting Part of Your Image

Selecting or masking a portion of your image allows you to make changes that affect only that portion. The rest of the image isn't affected.

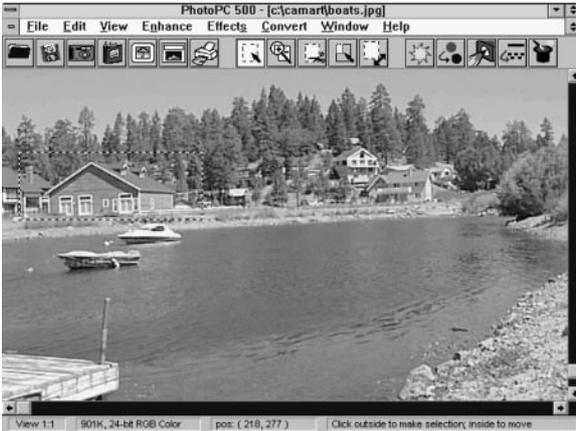
Using a Selection Mask

When using a selection mask, you can choose the **Discard** command on the Edit menu to cancel all changes made to the selected area. This lets you experiment freely, knowing you can undo a series of changes quickly and easily.

Follow these steps to select a part of your image:

- 1 Click the **Select** tool. 
- 2 Click and drag the mouse to select the part of the image you want.

When you release the mouse button, an “animated” rectangle surrounds the selected area:



NOTE

After you select an area, you can use many of the PhotoPC 500 menu commands and tools to work on the area. For example, you can use the **Crop**, **Resize**, and **Rotate** tools. See pages 7-6 to 7-8 for more information about cropping, resizing, and rotating.

Once you have added a selection mask, you can work with it by following these procedures:

- I To move the selected area, click and drag inside the area. The selection “floats” on top of the original image.
- I To decrease the size of a selection or change its shape, press **Ctrl** while you select part of the already selected area.
- I To remove the selection mask, click anywhere outside it, or press the **Delete** key. If the entire image is selected, click the **Crop** tool and then click the image to remove the selection mask.
- I To cancel all changes made to the selected area and remove the selection mask, choose **Discard** from the Edit menu. But be careful! *This works only while the selection is “active.”*

Cutting, Copying, and Pasting

You can use the **Cut**, **Copy**, and **Paste** commands on the Edit menu with a selected area of an image or an entire image. The **Paste as New** command lets you create a new image file from an image on the clipboard.

- I Choose **Cut** from the Edit menu to remove the selected area (or the entire image if there is no selection). A white “hole” appears where you made the cut. PhotoPC 500 places the cut-out area on the Windows Clipboard.
- I Choose **Copy** from the Edit menu to place a copy of the selected area (or the entire image if there is no selection) on the Windows Clipboard. The original image is not affected.
- I Choose **Paste** from the Edit menu to paste an image from the Clipboard into the active image. You can drag the pasted area with your mouse if you want to move it.

- I Choose **Paste as New** to create a new file from an image on the Clipboard. PhotoPC 500 displays the new image file in its own window, and you can save it or add it to an album.

Cropping

Cropping an image is the opposite of cutting; instead of removing the selected area, cropping removes everything outside the area. Follow these steps:

- 1 Click the **Crop** tool. The icon for the Crop tool, showing a square with a smaller square inside and a pair of scissors at the bottom right corner.
- 2 Click and drag to select the part of the image you want to keep. When you release the mouse button, an animated rectangle surrounds the selected area.
- 3 Click outside the selected area if you change your mind or want to start over. When you move the mouse pointer inside the selection, it turns into a pair of scissors. Click inside the selection to “cut away” the rest of the picture.

Resizing

You can use the **Resize** tool to enlarge or reduce a selected part of an image. Then you can use the resized area like any other selection—by cutting, copying, or pasting it, and so on. To change the size of an entire image, use the **Image Size** command on the Edit menu.

Resizing a Selection

Follow these steps:

- 1 Click the **Resize** tool. 
- 2 Click and drag on the part of the image you want to resize. When you release the mouse button, an “animated” rectangle surrounds the selected area.
- 3 Click and drag a corner of the selection to change its size. The selected area “floats” on top of the original image; you can move it by clicking inside the selection and dragging it with your mouse.
- 4 To remove the selection mask, click the **Crop** tool and then click the image outside of the selection.

Resizing an Image

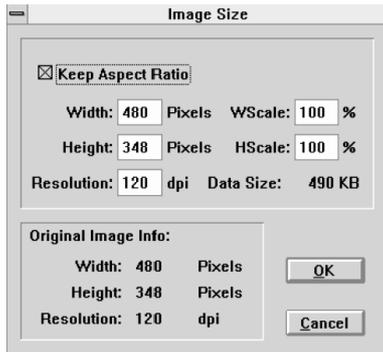
When you change the size of an image, you have several choices to make:

- 1 You can keep the aspect ratio (height-to-width proportion) of the original or change it.
- 1 You can set an exact size for the image’s height or width (or both) in pixels. Or, you can set a percentage of enlargement or reduction.
- 1 You can change the image’s resolution (up to 1200 dpi or more, depending on your computer’s memory).

Follow these steps to resize an image:

- 1 Choose **Image Size** from the Edit menu. A dialog box like the one on the next page appears.
- 2 Click to uncheck **Keep Aspect Ratio** if you want to change the height-to-width proportion. Leave it checked if you want to keep the proportion.

- 3 Enter new values for the size or percentage of enlargement or reduction.



- 4 Enter a value for the image's resolution (dots per inch). PhotoPC 500 will keep the image the same size and interpolate a higher resolution.
- 5 Click **OK** to apply your changes to the image.

NOTE

To maintain image quality when printing, you should try increasing the resolution when you enlarge an image. For example, if you scale a picture by 300 percent (3 times larger), you should increase the resolution from 152 dpi to 456dpi.

Rotating

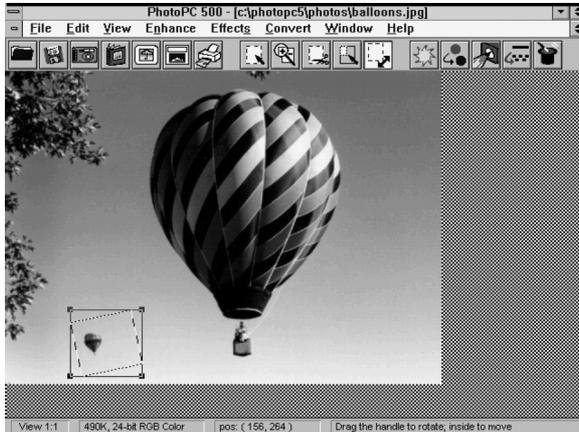
You can use the Rotate tool to tilt or turn a selected part of an image. To rotate an entire image to the exact degree you want, use the Rotate command on the Edit menu.

Rotating a Selection

Follow these steps:

- 1 Click the Rotate tool 
- 2 Click and select the part of the image you want to rotate. When you release the mouse button, an “animated” rectangle surrounds the selected area.

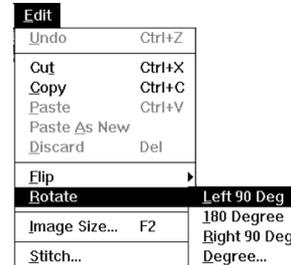
- 3 Click and drag a corner of the selection to rotate it. The selected area “floats” on top of the original image; you can move it by clicking inside the selection and dragging it with your mouse.
- 4 To remove the selection mask, click another tool such as the **Select** tool or the **Crop** tool and then click the image outside of the selection.



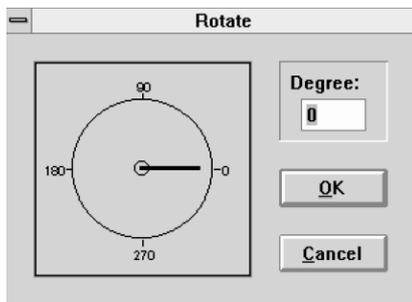
Rotating an Entire Image

You can use the **Rotate** command on the Edit menu to rotate either a selected area or an entire image. With this command, you can even set the exact degree of rotation. Follow these steps:

- 1 Choose **Rotate** from the Edit menu. The following list of choices appears:



- 2 Choose the angle you want, or choose **Degree** to display the Rotate dialog box, shown on the next page.



- 3 Enter the exact degree of rotation in the box or drag the dial.
- 4 Click **OK** to rotate the image.

Flipping an Image or Selection

You can use the **Flip** command on the Edit menu to reverse or “turn over” a selected area or an entire image. This is useful for applications such as printing a T-shirt transfer.

Follow these steps:

- 1 Select the area you want to flip, or make sure no area is selected if you want to flip the entire image.

- 2 Choose **Flip** from the Edit menu, and then select **Horizontally** or **Vertically**. Your image or selection is flipped.
- 3 If you flipped a selected area, click the **Crop** tool and then click the image outside of the selection to remove the mask.



original



flipped

Converting Image Types

Converting images gives you the maximum flexibility for editing, displaying, and printing your pictures. Keep in mind that changing an image’s data type is permanent.

The image may lose information when it is changed to a different type, so you should always keep your original file and use the **Save As** command to create the converted file.

Five image data types are available on the Convert menu:



I **1-bit black-and-white**

This type of image is like a drawing with no shades of gray. You must convert black-and-white images to grayscale if you want to use PhotoPC 500 enhancements or special effects.

I **8-bit grayscale**

This type of image contains 256 shades of gray, like a black-and-white photograph. You can use most PhotoPC 500 tools and commands with grayscale images. If you want to print a color image with a black-and-white printer, you should convert it to

grayscale first. This makes the image file smaller (in KB) and faster to process.

I **4-bit indexed 16-color**

Some older VGA monitors and software applications can display only 16 colors. Use this data type for images that may be viewed on low-resolution systems or used with older software.

I **8-bit indexed 256-color**

Some Super VGA monitors and software can display only 256 colors. Use this data type for the best image quality on low-resolution systems or with some software applications.

NOTE

PhotoPC 500 special effects and some other features don't work on indexed color images.

I **24-bit RGB True Color (over 16 million colors)**

This type of image provides the most accurate color and gives you the most options for editing and enhancing in PhotoPC 500. You can convert your

indexed color image to this type for editing purposes.

The image will appear the same, but you will be able to use all of the PhotoPC 500 features with it.

Below is an example of an image that was originally converted from 24-bit color to 8-bit grayscale and then to 1-bit black-and-white.



8-bit grayscale



1-bit black-and-white

See page 6-7 for information on printing your converted images.

8

Using Other Features in PhotoPC 500

You can fine-tune your images and create unusual results using the special effects available in your PhotoPC 500 software. This chapter describes the following:

- | Using enhancement tools and special effects
- | Adjusting brightness and contrast
- | Adjusting hue and saturation
- | Setting tone adjustment
- | Sharpening images
- | Blurring images
- | Using special effects
- | Using the matte template
- | Using the calendar template

Using Enhancement Tools and Special Effects

In the PhotoPC 500 workshop, there are several options for enhancing your images and for adding special effects. All of the tools for enhancing and adding special effects follow similar procedures. Follow these guidelines when using these features in PhotoPC 500:

- | Slide the control to the right to increase the effect or enhancement you are using.
- | Slide the control to the left to decrease the effect or enhancement you are using.
- | If you want to see a specific area of your image enlarged in the Before and After windows, click the **Pan Mode** box.

- 1 If you want to cancel any enhancement or special effect, you can choose **Undo** from the Edit menu at any time, even after you click **OK**.

NOTE

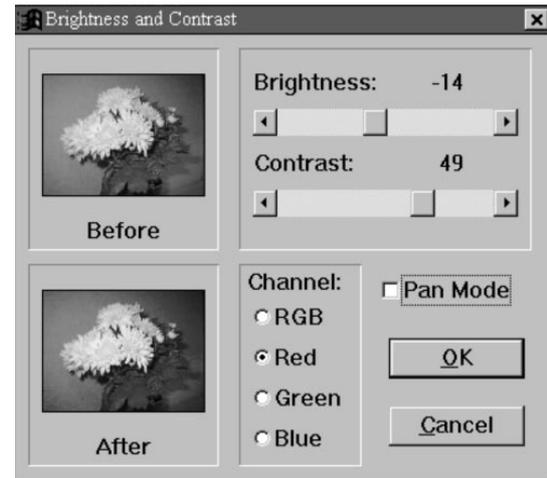
To use the enhancements or special effects, your images must be in either the grayscale or 24-bit color data type. See page 7-10 for information on converting images to these types.

Adjusting Brightness and Contrast

You can adjust the brightness and contrast of an entire image or a selected part of an image. Follow these steps:

- 1 Select the area you want to change, or make sure no area is selected if you want to change the entire image.
- 2 Click the **Brightness** button  or choose **Brightness and Contrast** from the Enhance menu.
- 3 Select the color channel you want to adjust. To adjust the brightness and contrast of all the colors, select RGB.
- 4 Slide the Brightness control right to lighten the image, or left to darken it.
- 5 Slide the Contrast control right to increase contrast, or left to decrease it.
- 6 Click **OK** when you are finished.

The Brightness and Contrast dialog box appears:



NOTE

You can make similar enhancements, with finer control, by choosing *Tone Adjustment* from the *Enhance* menu. See page 8-4 for more information.

Adjusting Hue and Saturation

Hue and saturation describe the color values and intensity of an image. Picture a color wheel like the one you used in art class, with all the colors of the rainbow arranged in a circle. When you change the hue of an image, all the colors are shifted by the same degree around the circle.

You can adjust the hue and saturation of a selected area or an entire image. Follow these steps:

- 1 Select the area you want to change, or make sure no area is selected if you want to change the entire image.
- 2 Click the **Hue** tool  or choose **Hue and Saturation** from the *Enhance* menu.

- 3 The Hue and Saturation dialog box appears:



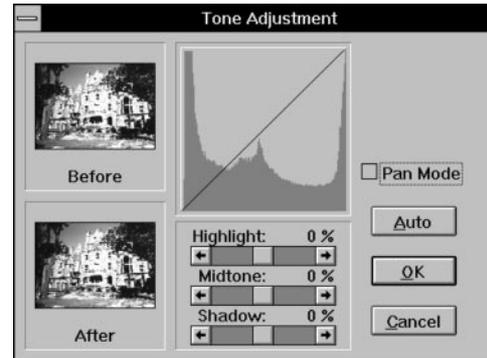
- 4 Slide the Hue control right or left to modify colors. Sliding it all the way to either side shifts the colors 180 degrees around the color wheel.
- 5 Slide the Saturation control right to increase intensity, or left to decrease it.
- 6 Click **OK** when you're finished.

Setting Tone Adjustment

The Tone Adjustment option works like Brightness and Contrast, but it gives you more control. You can adjust the brightness of three tone ranges in your image or selection: the highlights, the midtones, and the shadow areas.

Follow these steps to set tone adjustment:

- 1 Select the area you want to change, or make sure no area is selected if you want to change the entire image.
- 2 Choose **Tone Adjustment** from the Enhance menu. The Tone Adjustment dialog box appears.



- I The mapping curve, which initially looks like a straight line, shows the tone adjustments you make. The horizontal axis represents the original brightness level (from the dark on the left to the bright on the right), and the vertical axis represents the new brightness level.
- I The histogram represents the brightness of the image or selected area. The horizontal axis represents the brightness level (from the dark on the left to light on the right), and the vertical axis represents the number of pixels.

- 3 Click Auto to have PhotoPC 500 make the tone adjustment automatically. You can see the mapping curve change to reflect the modified image.
- 4 Slide the Highlight control right to expand the highlight area. This also increases contrast in the midtones. Slide the control left to reduce the highlight area and darken the image.
- 5 Slide the Midtone control right to lighten the midtones or left to darken these areas. Adjusting the midtones (also known as *gamma value*) does not affect the highlights or shadows.
- 6 Slide the Shadow control right to reduce the shadow area and lighten the image. Slide it left to expand the shadow area and darken the image. This also increases contrast in the midtones.
- 7 Click **OK** when you're finished.

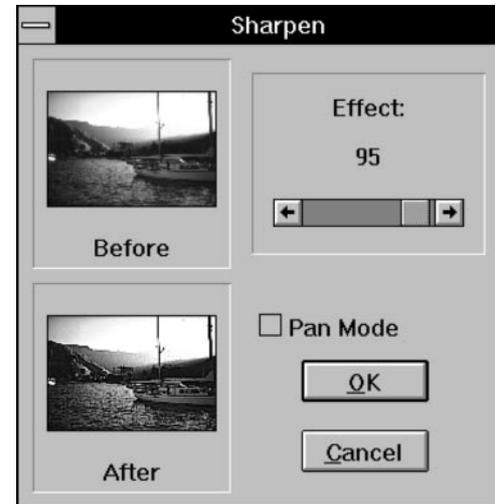
Sharpening

You can use the **Sharpen** tool to give your image a more focused look, with clearer edges.

Follow these steps:

- 1 Select the area you want to change, or make sure no area is selected if you want to change the entire image.
- 2 Click the **Sharpen** button  or choose **Sharpen** from the Enhance menu.

The Sharpen dialog box appears:

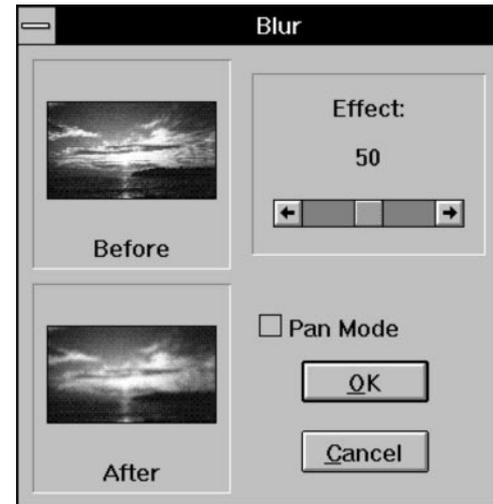


- 3 Slide the control to increase or decrease the sharpening effect.
- 4 Click **OK** when you're finished.

Blurring

You can use the **Blur** tool to give your image a softer, less focused effect. Follow these steps:

- 1 Select the area you want to change, or make sure no area is selected if you want to change the entire image.
- 2 Click the **Blur** button  or choose **Blur** from the Enhance menu. You see the blur dialog box.
- 3 Slide the control to increase or decrease the softening effect.
- 4 Click **OK** when you're finished.

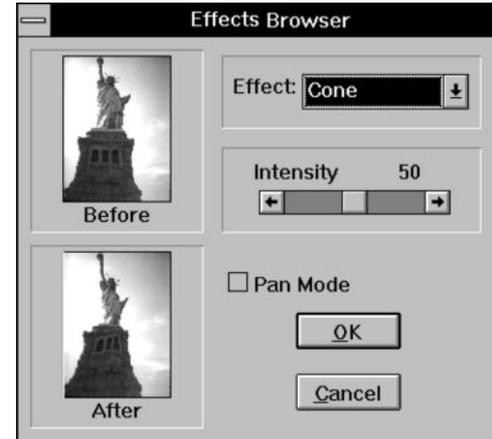


Using Special Effects

PhotoPC 500 special effects let you transform your images. You can create abstract or surrealistic art, design wild and colorful patterns, or turn portraits into caricatures. The best way to learn about using special effects is to experiment—so have fun with them!

Follow these steps:

- 1 Select the area you want to transform, or make sure no area is selected if you want to change the entire image.
- 2 Click the Effects browser button  or choose Browser from the Effects menu. The Effects Browser dialog box appears, as shown on the right.
- 3 Choose the effect you want.
- 4 Slide the intensity control to increase or decrease the intensity of the special effect.
- 5 Click **OK** when you're finished, examples of some of the effects are shown on the next page.

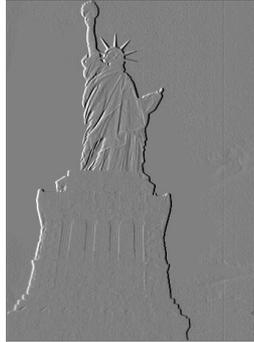


For even more unusual results, try combining two or more of the effects listed below.

Painting	Wrinkle	Cone
Sketch	3D Grid	Sphere
Film Grain	Mosaic	Whirlpool
Splash	Emboss	Spiral
Melting	Motion Blur	Cylinder
Ripple	Fisheye	Ribbon



Fisheye



Emboss



Wrinkle



Whirlpool



Mosaic



Ribbon



Sketch



Ripple

Using the Matte Template

You can use the Template feature to create a framed picture with personalized text. Choose from 9 attractive backgrounds to design your printout.

NOTE

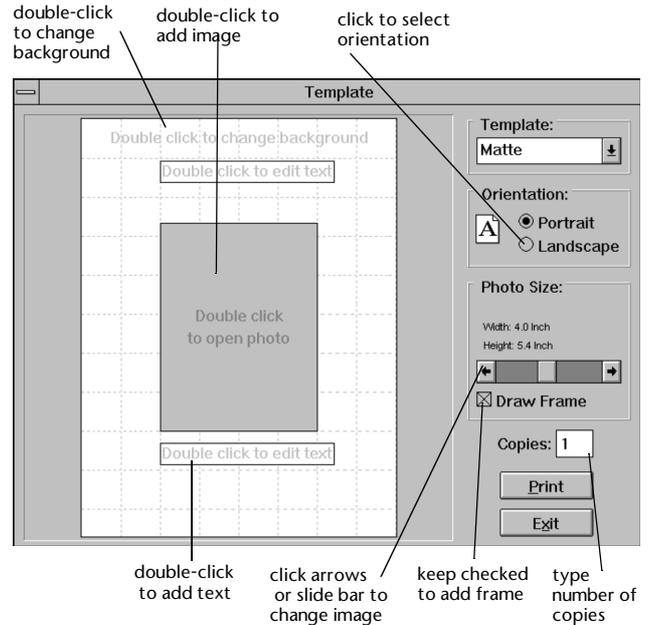
Before you use the Template feature, make sure your printer is set up correctly. (You must have a printer driver installed to use a Template.) Choose *Printer Setup* from the *File* menu to check the settings. The *Paper* option for EPSON Stylus® printers should be set to 8 1/2 × 11, centered. See your printer documentation if you need more information.

Follow these steps to get started:

- 1 Click the **Template** button.



The Template dialog box appears.



If you have an image open, it appears in the dialog box window.

- 2 Click the down arrow to select **Matte**, if it's not already selected.
- 3 If your screen is not displaying the image you want to use, double-click the gray rectangle or existing picture. A file selection dialog box appears.
- 4 Select your picture file and click **OK**. The image appears in the center of the page.
- 5 Choose **Portrait** or **Landscape** page orientation.
- 6 Drag the slider if you want to change the size of the image.
- 7 When you leave the **Draw Frame** box checked, PhotoPC 500 draws a line around your picture. If you don't want a line around the picture, click **Draw Frame** to remove the checkmark.
- 8 Click and drag your image to place it where you want.

Adding Background

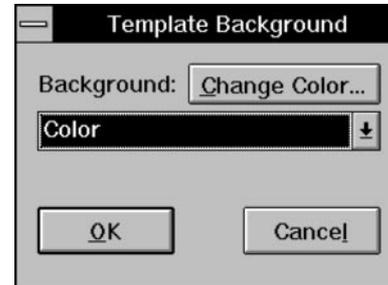
You can add a custom color background to your picture or choose from 9 patterned backgrounds.

NOTE

Your picture takes longer to print with a colored or patterned background.

Follow these steps to add a background:

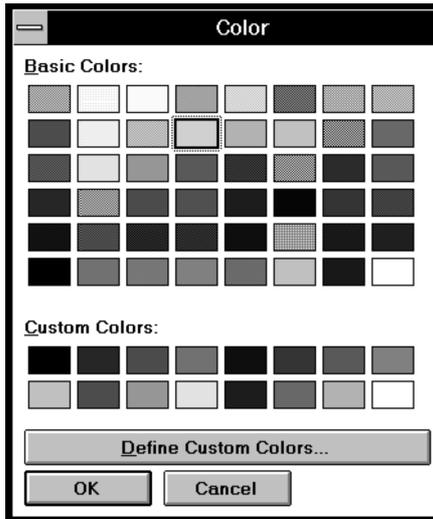
- 1 Double-click the background. The Template Background dialog box appears:



- 2 Click the down arrow to choose a color or a pattern.

If you click one of the pattern names (such as Birthday Party or Sports), the pattern appears in the window, behind your picture.

- 3 To choose a color, select **Color** on the list of pattern names, and then click the **Change Color** button. The Color dialog box appears:



- 4 Click one of the basic or custom colors, or click **Define Custom Colors**. (See page 5-9 for information about defining a custom color.)
- 5 Click **OK** twice. The color you choose appears in the Template window, behind your picture.

Now you can add some text, or just print your framed picture. See page 8-13 for printing instructions.

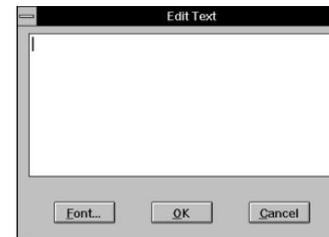
NOTE

The PhotoPC 500 imaging software creates your matted picture with opaque layers. The background is the bottom layer, your picture is the middle layer, and any text you add is the top layer. You can even have the text print on top of your picture. Feel free to experiment to get the effect you want.

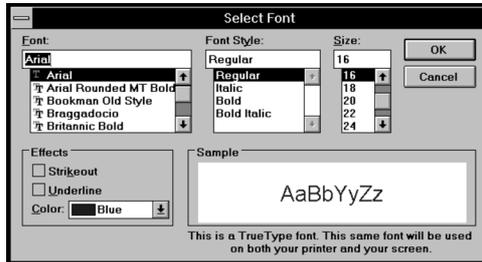
Adding Text

You can add one or two blocks of text to your matted picture, designed any way you want. Follow these steps:

- 1 Double-click one of the text boxes. The Edit Text dialog box appears:



- 2 Type your text. If you have more than one line of text, press **Enter** to start a new line. (Although text appears to wrap automatically as you type, it wraps on your printout only if you press **Enter**.)
- 3 Click **Font**. The Select Font dialog box appears:



- 4 Choose your font, style, size, color and any effects you want. The Sample box shows you how your printed text will look. Remember that the text prints over the background you select. If the background is dark, you should choose a light color for the text.
- 5 Click **OK** when you're finished.
- 6 Click **OK** again on the Edit Text box when you're finished typing your text.

- 7 If you want two blocks of text on your page, repeat steps 1 through 6 for the other block of text.

You can drag the blocks around the screen to place them where you want.

Here's what a finished matte template might look like on your screen:

Printing Your Matted Picture

When you finish designing your matted picture, you can print it. Follow these steps:

- 1 Enter the number of copies you want to print. (This option is available only if your printer supports it.)
- 2 Click **Print**.
- 3 When you're finished, click **Exit**.

While PhotoPC 500 is open, you can reuse the template with another image and background, and different text. Just click the **Template** button and start creating.

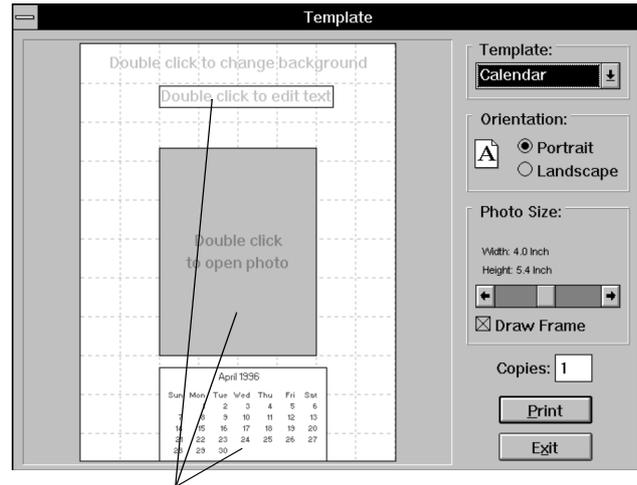
Using the Calendar Template

You can create a personalized calendar using a different picture for each month. Then you can add a colored or patterned background, a title or caption, and design the dates in any size, color, and style you want.

Follow these steps:

- 1 Click the **Template** button . The Template dialog box appears. If you have an image open, it appears in the window.

- 2 Click the down arrow to select **Calendar**, if it's not already selected.



click and drag photo, text, and calendar boxes to move around on template

- 3 If the screen doesn't display the image you want, double-click the gray rectangle or existing picture. A file selection dialog box appears.
- 4 Select your picture file and click **OK**. The image appears in the center of the page.

- 5 Choose the **Portrait** or **Landscape** page orientation.
- 6 Drag the slider if you want to change the size of the image.
- 7 When you leave the **Draw Frame** box checked, PhotoPC 500 draws a line around your picture. If you don't want a line around the picture, click **Draw Frame** to remove the checkmark.
- 8 Drag your image if you want to change its position on the page.

Adding Background and Designing the Dates

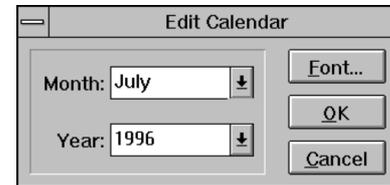
You can add a custom-color background to your calendar and choose from 9 patterned backgrounds. Then you select the month and year, and design the date portion.

NOTE

PhotoPC 500 creates your calendar with opaque layers. The background is the bottom layer, your picture is the middle layer, and the dates are the top layer. If you add text, it appears on top of all other layers. You can experiment with these elements to get the effect you want.

Follow these steps:

- 1 Follow the steps on page 8-10 to add a colored or patterned background.
- 2 Double-click the calendar month displayed on the Template screen. The Edit Calendar dialog box appears:



- 3 Click the down arrows and select the month and year you want.
- 4 Click **Font**. The Select Font dialog box appears, as shown on page 8-12.

Choose your font, style, size, color, and any effects you want. The larger the font, the more space the dates occupy on the page. The Sample box shows you how your printed dates will look.

Remember that the dates are printed over the background you select (or over your picture, if you want). If the background is dark, you should choose a light color for the dates.

- 5 Click **OK** when you're finished.
- 6 Click **OK** again on the Edit Calendar box. The dates appear on the page with your image.
- 7 Drag the date box to position it where you want.

Adding Text and Printing the Calendar

When you finish designing the picture and dates, you can add a title or caption, and then print your calendar page.

Follow these steps:

- 1 Follow the steps under "Adding Text" on page 8-11 to add a title or caption. (The calendar has only one text box.) When you're finished with the text, you see something like the following on your screen:
 - 2 You're ready to print.
 - 2 Enter the number of copies you want to print. (This option is available only if your printer supports it.)
 - 3 Click **Print**.
 - 4 Click **Exit** when you're finished.

After you complete the first calendar page, you can continue with the next month and make a calendar for the whole year. Or you can create a new calendar page each month.

9

Inserting Pictures into Documents

Around Campus
State Community College Newsletter / Vol 2

Fall Semester

Register Now for Fall Courses
Popular courses this semester include underwater basket weaving, glass blowing, yarn spinning and comic book literature. Don't forget to sign-up now for these fun and easy classes. These classes will not satisfy your general requirements but they are a lot of fun.



New Auditorium Set to Open
After three years of construction, the Smith Memorial Auditorium is finally set to open this fall. For pre-med students, Biology 101 will be held in the main auditorium and will have an estimated class size of 500 students. Don't forget to come in early to find best seating.

Several plays will be held in the auditorium this winter including *How to Become a Zillionaire* and *Fraternity House*. Be sure to call in advance for tickets. Student tickets are available at the Student Union or at the ticket booth.

Joe's Fruit Stand
For those of you who desire a healthier diet than the traditional dormitory fare, Joe's Fruit stand is a healthy alternative. Located in front of the Bookstore, Joe is personally there to weigh and select your fruit. For foreign students, exotic fruits such as Fuji apples and papaya are also available. Open from 8:00 am to 5:00pm.

Inside This Issue

New Classes	Page 2
New Faculty	Page 3
Study Tips	Page 4
Events	Page 5
Football	Page 6
Swimming	Page 6

When your images are saved in albums or on your hard drive, you can insert them in your documents by copying and pasting, or importing them. You can use your pictures in applications such as word processors, presentation programs, database managers, spreadsheets, page layout and desktop publishing packages. This chapter explains how in the following sections:

- 1 Inserting pictures with Windows 95
- 1 Inserting pictures with Windows 3.1
- 1 Using copy and paste to insert a picture

NOTE

You can also transfer images directly from the camera into documents with drag and drop or by inserting them as objects as described on page 4-5.

NOTE

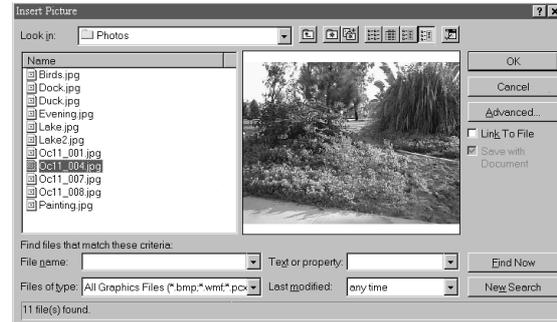
If you want to change a picture before you insert it, you can use the Photo PC 500 imaging software to crop, rotate, resize, or make other types of enhancements. (After you insert your picture, you can use your application to change the size and position of your picture.) For more information on using the PhotoPC 500 imaging software, see Chapters 4, 6, 7, and 8.

Inserting Pictures with Windows 95

Follow these steps to insert your PhotoPC 500 pictures with Windows 95 or Windows NT 4.0:

- 1 Open the document you want to add a picture to in your application.
- 2 Select the point where you want to insert your picture.

- 3 Select **Picture** from the Insert menu. (In some applications you may need to select a different command, such as **Import**, which is often found in the File menu.) An Insert Picture dialog box appears:



- 4 Find the file you want to insert. Most of your pictures are probably in **C:\PHOTOPC5\PHOTOS**. In some applications, such as Microsoft Word 7.0, you see a preview of your picture.

NOTE

You can conduct a search to find your file in many applications designed for Windows 95. You can search by file name, type, text or property associated with the file, or the day your file was last modified. You can also conduct an advanced search. See your application's documentation or help for more information.

- 5 Click OK to insert your picture. The picture appears in your document
- 6 Add a frame, if you want, so you can move your picture around on the page and resize it if necessary.

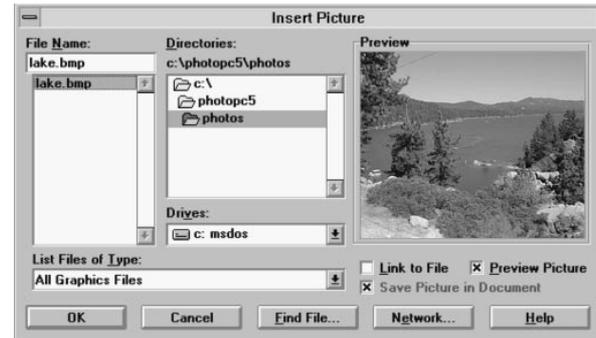


Inserting Pictures with Windows 3.1

In Windows 3.1, Microsoft Word and other applications are often unable to recognize the JPEG format that the camera uses to capture your pictures. Convert your picture to a Tiff or bitmap file in PhotoPC 500 as described on page 6-8 or export your photo in the bitmap format as described on page 4-11. Then, follow these steps to insert your converted PhotoPC 500 pictures into documents using applications in Windows 3.1:

- 1 Open the document in your application.
- 2 Select the area of your document where you want to place the picture.
- 3 Select **Picture** from the Insert menu. (In some applications you may need to select another command such as **Import**, which you can usually find in the File menu.)

The Insert Picture dialog box appears:



- 4 Find the file you want to insert. Most of your pictures are probably in C:\PHOTOPC5\PHOTOS. If you converted the file, look for the file in the directory where you saved it. In some applications, such as Microsoft Word, you see a preview of your picture.

NOTE

You can conduct a search for your file in many Windows applications. See your application's documentation for more information on conducting a search.

- 5 Click **OK**.

The picture appears in your document:



Using Copy and Paste to Insert a Picture

Follow these steps to insert a PhotoPC 500 picture into your document using **Copy** and **Paste**:

- 1 Open your image in PhotoPC 500 or other image-editing application.
- 2 Click the picture (or choose **Select All**) to make sure it is selected.
- 3 Select **Copy** from the Edit menu.
- 4 Start your word processor or other application and 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.



Creating Projects with Print Artist

Print Artist is a great tool for creating all kinds of projects such as newsletters, greeting cards, flyers, and business cards. It allows you to combine your pictures with text and add any of the hundreds of clip art graphics that come with the program. You can customize graphic elements, lettering styles, and colors, and even use images that you've transferred from the camera.

This chapter describes the following:

- I Getting started with Print Artist
- I Creating a greeting card
- I Importing an image
- I Finishing the card design
- I Saving the card
- I Printing the card and exiting

Getting Started with Print Artist

Print Artist is easy and fun to use. With a little practice, you may even discover some new talents in graphic design.

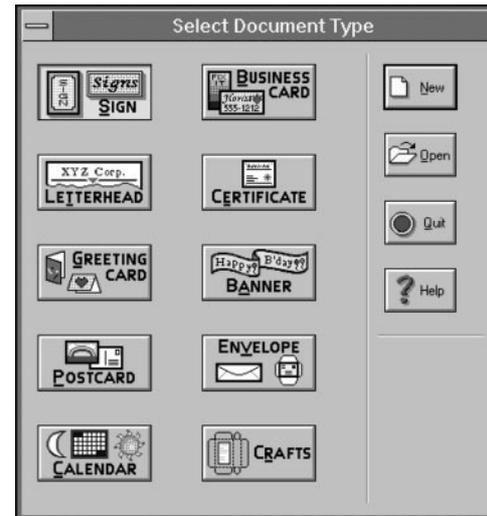
Follow these steps to get started:

- 1 In Windows 95, click **Start**, point to **Programs**, and then point to **Sierra**. Click the **Print Artist** icon.

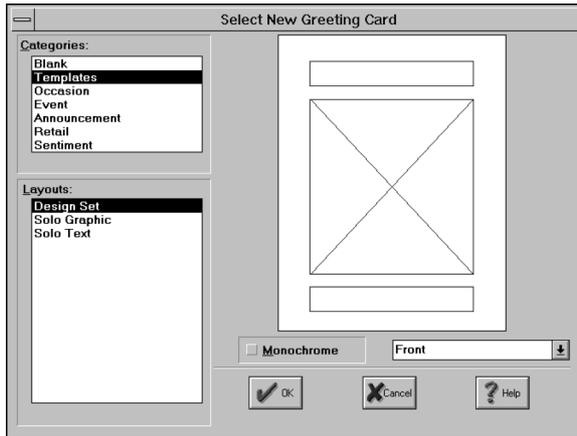
From the Windows 3.1 Program Manager, double-click the **Print Artist** icon in the Sierra Group.

You see the Document Type screen, as shown to the right.

- 2 Click the type of document you want to create, and then click **New**.



You see the following screen:



(If you choose greeting card or calendar, you first see a preliminary dialog box. For more information about creating a greeting card, see page 10-4.)

- 3 Choose your category from the list.

The three main categories give you three different starting points:

- 1 Choose one of the descriptive categories if you want to start with a predesigned layout. This is a great way to start if you've never designed a document before. Most document types have many attractive layouts to choose from.
 - 1 Choose **Templates** if you want to start with defined areas for text and graphics. For most documents, you can choose from several templates.
 - 1 Choose **Blank** if you want to start from scratch. Depending on the type of document, you can choose from several layout sizes.
- 4 Choose your layout and click **OK**. The Print Artist main screen displays the starting layout.

From here, you can click the various objects in your document to select them, and use all the tools, palettes, and menus to design your project. You can move the objects around, add photos, and modify the text and

graphics to create your own personalized document. If you need more information while working with Print Artist, you can use the Help menu or press the **F1** key.

The rest of this chapter shows you how to create a greeting card with your PhotoPC 500 images. But this is just a start. Feel free to experiment with Print Artist and explore the creative possibilities.

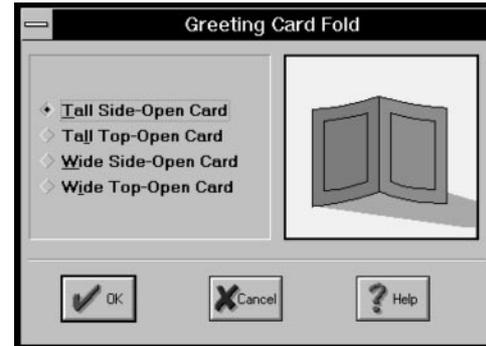
Creating an Invitation

It's easy to create a professional-looking invitation using one of the predesigned layouts. You can add your own picture, then decide whether to write your own message or use Print Artist's wording. When you finish this quick lesson, you'll have a personalized invitation to an open house.

Follow these steps to choose a colorful layout and get ready to add one of your pictures:

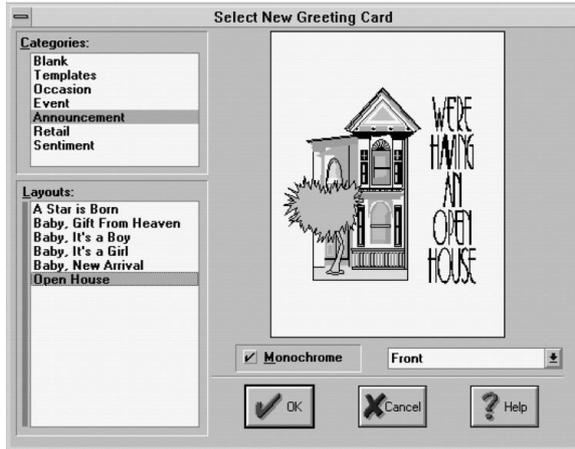
1 Start Print Artist as described on page 10-2.

2 Click **Greeting Card**, and then click **New**. The Greeting Card Fold dialog box appears:

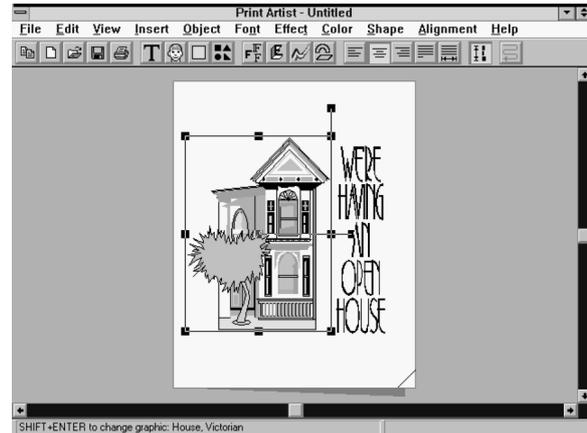


3 Click **Tall Side-Open Card** and click **OK**.

4 Choose the **Category** and **Layout** you want to use. To make a personalized open house invitation, choose the **Open House Layout** from the Occasion Category. The layout appears in the window, as shown on the next page.



- 5 Click **OK**. The front of the card appears on the main screen, as shown to the right.
- 6 Click the graphic element to select it (the house).



Press your **Delete** key to delete it. Now you have just the text. See the next section to add the photo of a house.

Importing an Image

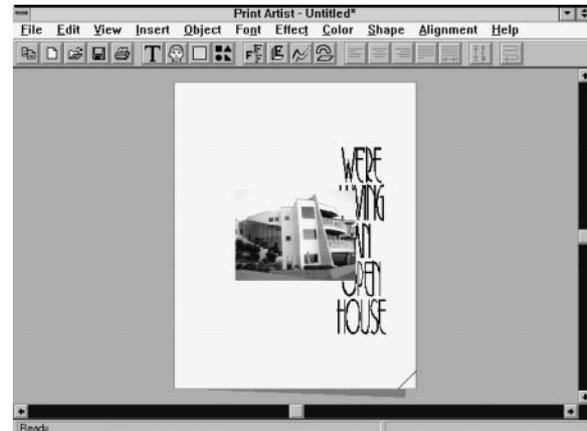
When you import an image, Print Artist copies the image file into the directory or folder where other image and art files are located. Then the picture is available to use with other Print Artist projects. Follow these steps to import an image:

- 1 Choose **Import** from the File menu. The Import dialog box appears as shown:



- 2 Make sure JPEG is selected under List Files of Type. (Or select a different file type if the picture you want to use is not saved in the JPEG format.)

- 3 Double-click the **Directories** box to display the directory list. Then double-click the directory or folder containing your PhotoPC 500 images. (The default is C:\PhotoPC5\Photos.)
- 4 Locate the picture you want. You can click the **Preview Graphic** button to check if you have the right picture.
- 5 Double-click the image file you want to use. The picture appears on the front of your card.



Adjusting the Text

You can adjust the appearance of the text so that it looks better with your graphic by following the steps below:

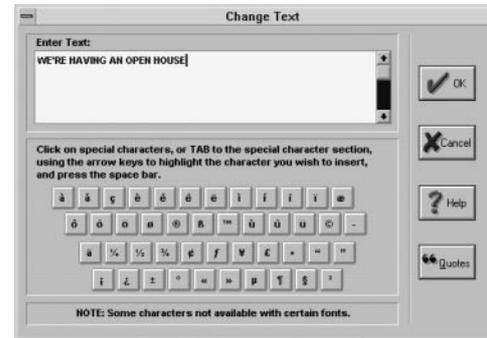
- 1 Click the text to select it.
- 2 Move the mouse over the center of the text. Your pointer will turn into a hand shape.
- 3 Click and hold the mouse to move the text to the top of the card.
- 4 Use the corners to resize and realign the text. The words are sized to fit the selection area as shown.



Changing the Text and the Font

If you want to change the font on your card, follow these steps:

- 1 Double-click the text. The Change Text window appears, as shown below:



- 2 Type new text if you want (or click **Quotes** to choose from some famous quotations) and click **OK** to return to the main screen.
- 3 With your text selected, click the Font palette button.

The Font palette appears.



- 4 Click the font you want to use. Your text changes if you browse through the fonts. You can move the Font palette if you can't see your text.

Adding a Background Fill

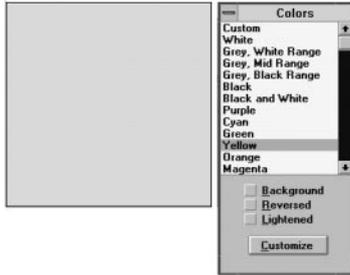
After you finish working with the text, you can add a colorful background to the front of the card. Follow these steps:

- 1 Click the yellow **Insert Fill** button. A square block of yellow color appears on the card, as shown below.



- 2 Click and drag one of the corner handles to enlarge the color block.
- 3 Click the **Color palette** button.

The Color palette appears:



- 4 Click the color you want to use. Then click the **Color palette** button again and select **Lightened**. Click **customize** if you want to experiment with color.
- 5 While the background is still selected, choose **Send to Back** from the Object menu.

Object	
Bring to Front	
Send to Back	
Bring Forward	Alt+Grey +
Send Backward	Alt+Grey -
Maximize	Ctrl+M
Shrink to Fit	
Center Horizontally	
Center Vertically	
Align Horizontally	
Align Vertically	
Group	Ctrl+Y
Ungroup	Ctrl+U

The background appears behind the picture and the text.

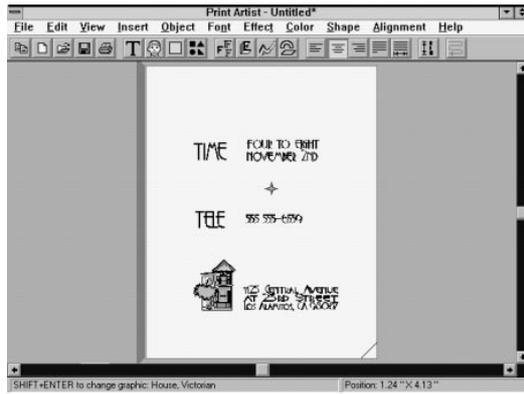


Adding a Graphic

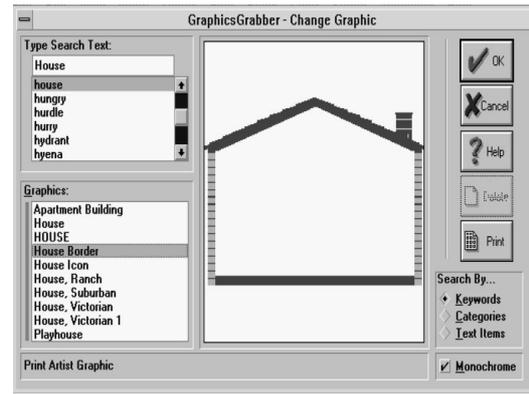
You can add a graphic to change the look of the inside of your card. Follow these steps:

- 1 Click the gray shadow to “open” the card or choose **Inside Right** from the View menu. You see the inside right panel.

The Graphics Grabber dialog box appears:

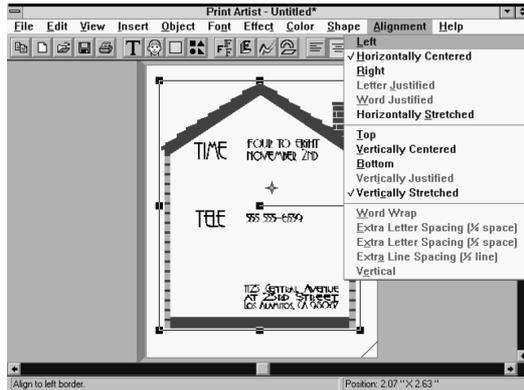


2 Double-click the graphic to change it.



- 3 Type **House** in the Type Search Text box. The Graphics box lists the available House pictures. When you select a picture, it appears in the window.
- 4 Select the graphic and click **OK**. The inside panel of the card displays the graphic.

- 5 Select **Vertically Stretched** from the Alignment menu.



This allows you to stretch the graphic to fit around the text. (The default for alignment is vertically and horizontally centered, so graphics can be made smaller or larger, while keeping the same proportions.)

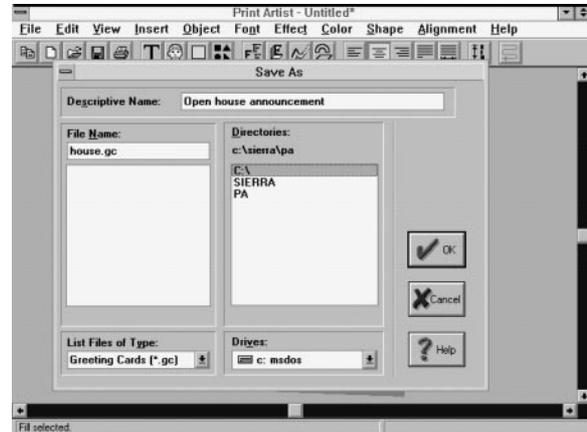
- 6 Drag the corner handles to make the graphic large enough to fit around the text as shown above.
- 7 Change the inside text and font as you did for the front of the card. You can change the graphic in the center of the text as well.

Now you can save and print your card.

Saving Your Card

When you're finished designing the card, follow these steps to save it:

- 1 Click the **Save** button. The first time you save your card, the Save As dialog box appears:



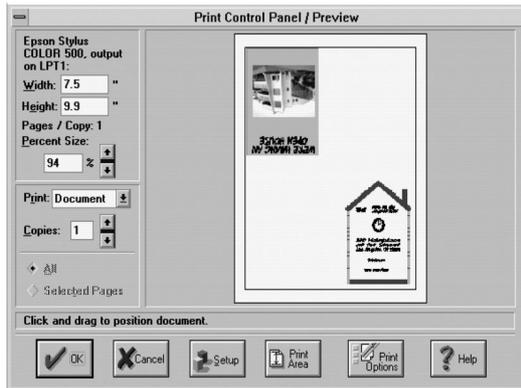
- 2 Type a descriptive name (up to 32 characters) for your project.

- 3 Type a file name up to 8 characters long. Print Artist automatically adds the .GC extension (for greeting cards).
- 4 Click **OK** when you're finished.

Printing Your Card and Exiting

After you save the card, you're ready to print it. Follow these steps:

- 1 Click the **Print** button. The Print Control Panel/Preview window appears:

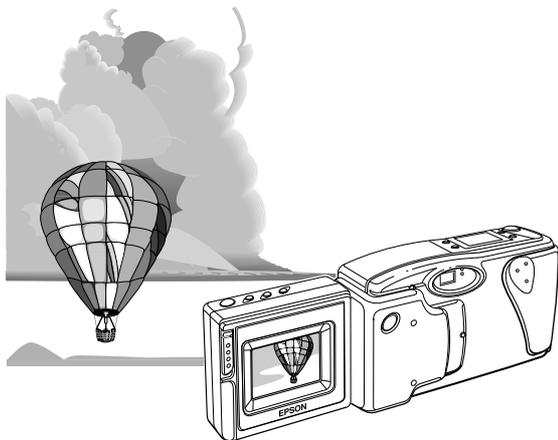


- 2 Adjust printing options if you want and click **OK** to print your card.
- 3 Fold the printed greeting card, and it's ready to deliver.
- 4 When you're finished using Print Artist, choose **Exit** from the File menu.

If you liked making the card, you can try making a personalized envelope to go with it. Or use your saved pictures to make personalized business cards, signs, banners—even party hats and other folded paper craft items. For Print Artist technical support, call (206) 644-4343.

11

Using the Optional LCD Monitor



The EPSON PhotoPix LCD Monitor (A883051) should be available where you bought your PhotoPC 500. You can also order it from EPSON Accessories at (800) 873-7766 (U.S. sales only). In Canada, call (800) 463-7766 for dealer referral.

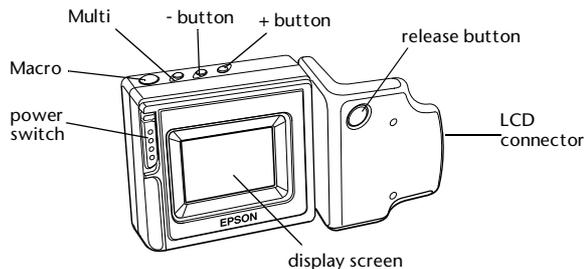
After you take your pictures, you can play them back on the PhotoPix LCD Monitor. If one image isn't perfect, you can erase it and take another one. You can also select any picture you want to erase.

This chapter explains how to use the PhotoPix LCD Monitor in the following sections:

- | Getting to know the PhotoPix LCD Monitor
- | Attaching the LCD monitor to the camera
- | Saving power with auto shut-off
- | Using Playback Mode
- | Using View Mode to take pictures
- | Detaching the PhotoPix LCD Monitor

Getting to know the PhotoPix LCD Monitor

The PhotoPix LCD Monitor's features are shown below.

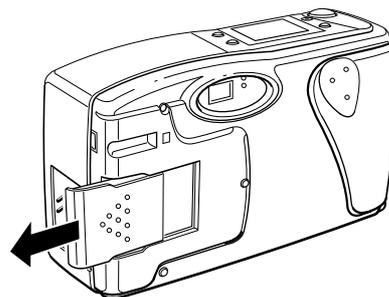


Attaching the LCD Monitor to the Camera

Make sure your camera is turned off and follow these steps to attach the PhotoPix LCD Monitor to the camera:

- 1 Locate the LCD inlet cover on the back of your camera.

- 2 Pressing on the arrow with your thumb, slide the cover away from the camera in the direction shown.

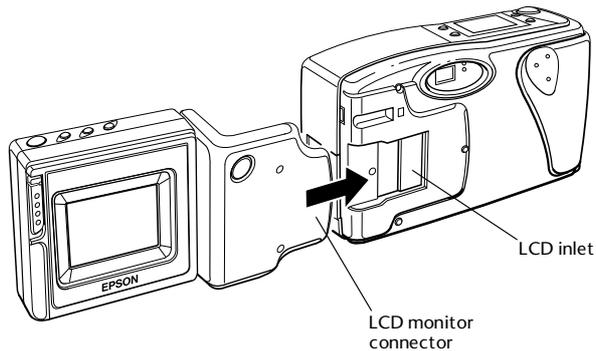


NOTE

Place the cover in a safe place like a camera bag or a plastic baggie. It is small and can be lost easily.

- 3 Make sure the LCD Monitor's mode switch is in the OFF position.
- 4 Place the LCD Monitor so that the display will face you when you take a picture.

- 5 While holding the camera with one hand, carefully slide the LCD Monitor connector into the LCD inlet. Make sure it is firmly in place.



See page 11-13 for instructions on detaching the PhotoPix LCD Monitor.

Saving Power with Auto Shut-Off

Because the PhotoPix LCD Monitor uses additional power, the following power-saving features take effect when it is attached to the camera:

- When the camera shuts off, the PhotoPix LCD Monitor also shuts off.

- When the PhotoPix LCD Monitor is in Playback mode, it shuts off if it is not used for 5 minutes.
- When the camera is turned off with the PhotoPix LCD Monitor in View mode, a caution message appears on the Monitor for ten seconds. Then the LCD Monitor shuts off.
- The PhotoPix LCD Monitor shuts off automatically when the camera is connected to a computer.

NOTE

Although the PhotoPix LCD Monitor includes these power-saving features, it uses a large amount of battery power. You may want to buy an AC adapter to use with the monitor, as described in Appendix A, or use rechargeable or lithium batteries. See page 1-4 for battery information.

Using Playback Mode

After you have finished taking your pictures, you can use Playback mode to view the images, erase any images you don't want, or view several thumbnails at once. You can also view your images as a slide show.

NOTE

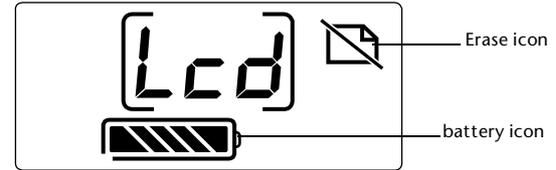
The camera does not have to be turned on to display pictures in Playback mode.

Turning on Playback mode

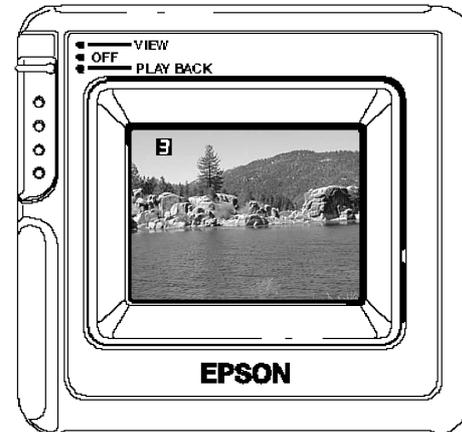
Follow these steps to turn on Playback mode:

- 1 Make sure the PhotoPix LCD Monitor is connected to the camera as described earlier in this chapter.
- 2 Move the LCD Monitor power switch from the OFF position to PLAYBACK.

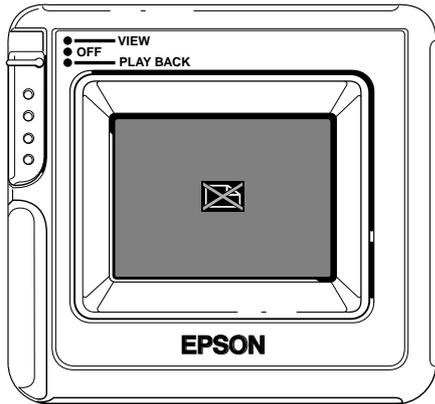
The camera's control panel reads "Lcd" as shown.



The PhotoPix LCD Monitor displays the last image you captured with its number in the top left corner.



If there aren't any pictures in the camera's memory, you will see a screen like the one below.



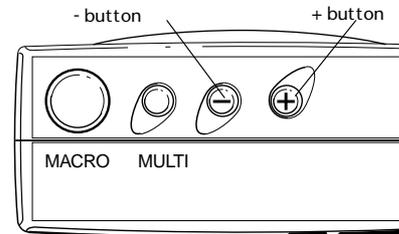
NOTE

You cannot use the camera's controls while the PhotoPix LCD Monitor is in Playback mode. You can use the LCD Monitor to erase pictures, but to change other settings, you must either turn off the LCD Monitor or switch it to View mode.

Viewing other images in your camera

Follow these steps to view the other images in your camera, one by one:

- 1 Turn the PhotoPix LCD Monitor on in Playback mode as described earlier in this chapter. You see the last image you captured on the display.
- 2 Locate the "+" and "-" buttons on the top of the LCD monitor.



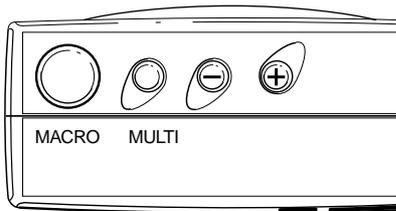
- 3 Press "-" to view the next to last image. Continue pressing "-" to view your images in the order of last to first.
- 4 Press "+" to view your first image. Continue pressing the "+" button to go from the first image to the last.

Using Multi Mode

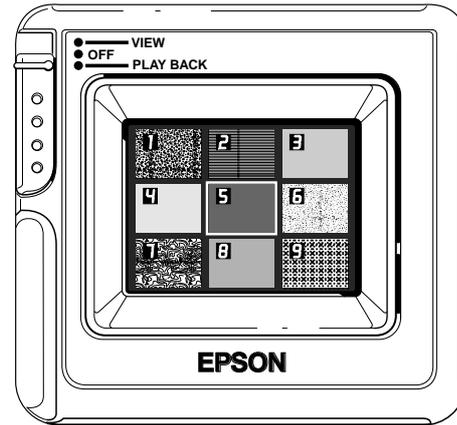
You can use this feature to view several images in small, thumbnail versions all at once. This allows you to select and erase images or to find the image you want quickly.

Follow these steps to view multiple images:

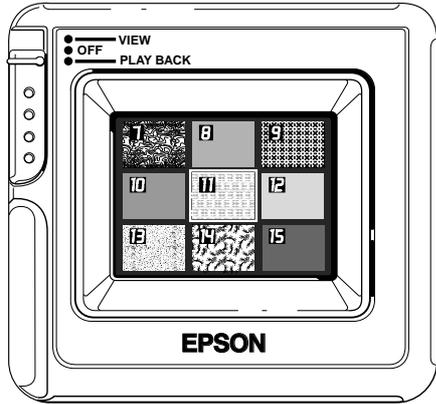
- 1 Set the PhotoPix LCD Monitor to PLAYBACK as described earlier in this chapter.
- 2 Press the MULTI button on the top of the PhotoPix LCD Monitor.



- 3 The display shows 9 images. The selected image has a frame around it.



- 4 Move the frame to select other images by pressing “+” or “-”. As you move the selection frame, more images appear on the screen.



Erasing Images

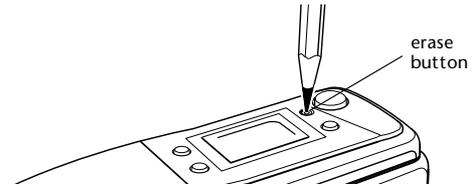
You can use the PhotoPix LCD Monitor to select images and erase them. You might want to take a picture when the camera is full. You can select a picture, erase it, and then take another picture.

Erasing images in normal Playback mode

Follow these steps to erase your images while viewing them one at a time:

- 1 Make sure the image you want to erase is showing on the screen.

- 2 Using a pencil or ballpoint pen, press the erase button on the top of the camera.



The PhotoPix LCD Monitor displays the erase icon over the image for a moment, and then the image disappears.

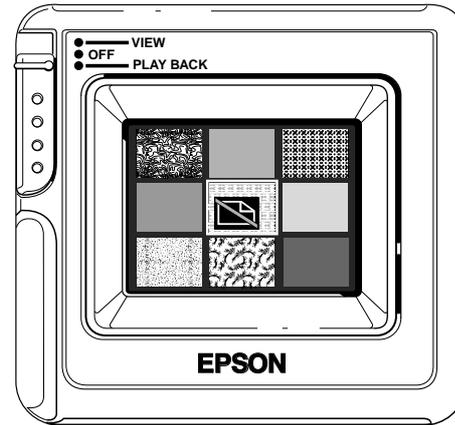


Erasing images in Multi mode

Follow these steps to erase images while you are viewing several at a time:

- 1 Make sure the image you want to erase is showing on the screen.
- 2 Press the “+” or “-” buttons until the image you want to erase is selected. The border around the image should be highlighted.

- 3 Use a pencil or a ballpoint pen to press the erase button on the top of the camera as shown on the previous page.



The PhotoPix LCD Monitor displays the erase icon over the selected image, as shown above, and then the image disappears. The other images are renumbered and re-ordered on the screen.

Displaying a slide show

You can use the PhotoPix LCD Monitor in Playback mode to play your images in the form of a slide show. Follow these steps:

- 1 From normal playback mode, press the “+” button and hold it down for five seconds.

The camera displays your photos one-by-one on the screen. The monitor stops after displaying all the images.

- 2 To stop the slide show before the camera has displayed all the images, press the “+” button again. The screen stops on whatever image is currently displayed.

Using View Mode to Take Pictures

You can use this mode to see a live preview of what the camera’s lens sees at any moment. You can adjust the brightness and take close-up pictures in this mode.

CAUTION

View Mode uses batteries quickly. If you use this mode, it is strongly recommended that you keep your camera on for short periods of time. Turn off the LCD monitor immediately after you take a picture. It is best to use lithium batteries, or rechargeable NiCd or NiMH batteries if you are taking pictures with this mode.

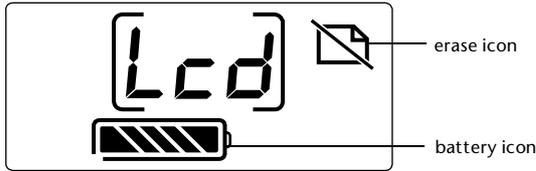
See page 1-4 for battery information.

Turning on View mode

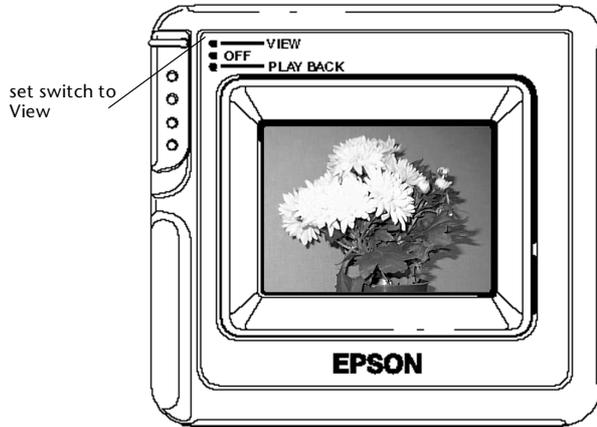
Make sure the LCD monitor is firmly attached to the camera as described in the previous section. Then follow these steps:

- 1 Turn the camera on by sliding the power switch to the ON position.
- 2 Move the PhotoPix LCD Monitor’s power switch from the OFF position to VIEW.

The camera's control panel displays "Lcd" as shown:



In the LCD Viewing Screen, you see a picture of whatever image the camera's viewfinder is pointed at.



NOTES

- I *The image area displayed in View mode is slightly smaller than the area captured in the actual photo. To see the total area captured, view the photo in Playback mode, as described on page 11-4.*
 - I *The image may appear to flicker when viewed under strong fluorescent lighting, depending on the lighting's frequency. This is normal and does not indicate a problem with the camera or the LCD Monitor.*
-

Taking a Picture

After you have turned on the camera and the LCD Monitor, follow these steps to take a picture:

- 1 Position the camera so that the image you want to capture appears in the display.
- 2 Adjust the position of the camera if necessary. You can use the camera's control panel to adjust settings, as described in Chapter 3.

The LCD Monitor shows the image in “real time,” so what you see on the screen is what the camera’s lens sees at any moment.

- 3 Snap the shutter to capture the image. The image freezes on the LCD Monitor and then appears with its number as shown.



The LCD monitor returns to the view through the camera’s viewfinder.

For more information on taking pictures see Chapter 2.

To play back the images you have captured, see “Using Playback Mode” on 11-4.

NOTE

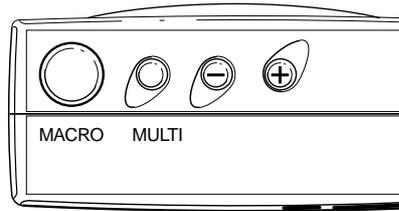
If you use the flash and your battery power is low, the PhotoPix LCD Monitor will not return to live view until the flash is recharged. The screen remains blank during this period.

Adjusting brightness

You can adjust the LCD monitor’s brightness so you can see the image on the screen under various lighting conditions. This does not change the appearance of your photo. Follow these steps:

- 1 Set up and turn on the PhotoPix LCD Monitor and the camera as described earlier in this chapter. Make sure the monitor is set to View mode.

- 2 Locate the “+” and “-” buttons on the top of the PhotoPix LCD Monitor.



- 3 Press either of these buttons. The brightness control bar appears on the display.



- 4 Press the “+” button to increase the brightness of your preview or the “-” button to decrease the brightness.

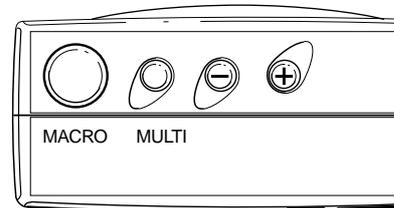
NOTE

The brightness level display disappears after 3 seconds if you don't press the “+” or “-” buttons, or if you press another button on the PhotoPix LCD Monitor.

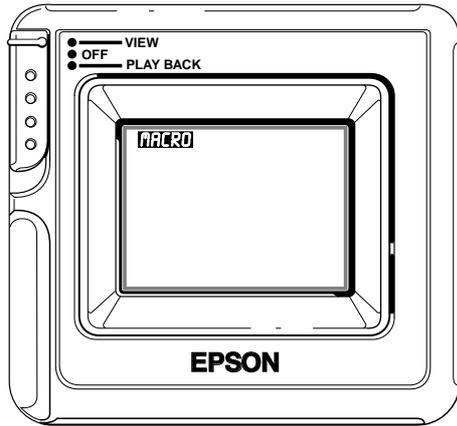
Taking Close-up pictures with Macro mode

You can use the PhotoPix LCD Monitor to take close-up pictures with Macro mode. Follow these steps:

- 1 Set up and turn on the camera and PhotoPix LCD Monitor as described earlier in this chapter. Make sure the PhotoPix LCD Monitor is set to View mode.
- 2 Locate the Macro button on top of the LCD Monitor.



- 3 Press the Macro button. “MACRO” appears on the screen for a moment and the frame around the screen turns green.



The frame stays green as long as you are in Macro mode.

- 4 In this mode, you can capture an image within as little as 8 inches (20 cm) from the subject. Get as close to the subject as necessary and check the image in the LCD monitor.

- 5 When you are ready, just snap the shutter.
- 6 You can return to normal View mode by pressing the Macro button again. The green frame disappears.

NOTE

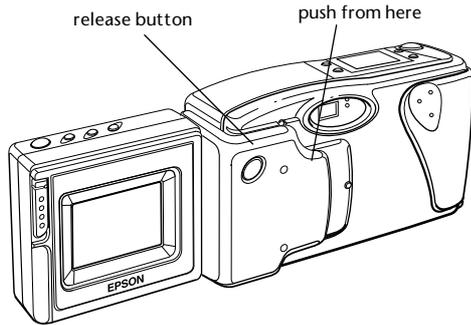
Using the flash with Macro mode may wash out the image slightly. Try taking Macro mode pictures in natural light with the flash set to Flash Off as described on page 2-5.

Detaching the PhotoPix LCD Monitor

Follow these steps to detach the PhotoPix LCD Monitor from the camera:

- 1 Turn the camera off, and set the LCD Monitor mode switch to OFF.
- 2 Place the camera on a flat surface if possible.
- 3 With the back facing you, hold the camera with your right hand and the LCD monitor with your left hand.

- 4 Using your left thumb, press the release button on the LCD connector, shown below.

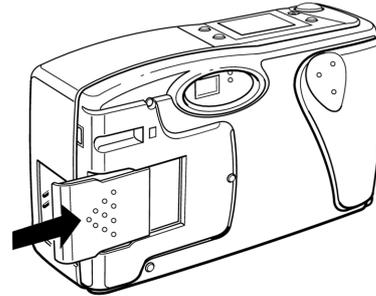


- 5 While holding down the button, push the PhotoPix LCD Monitor away from the camera with your right thumb. (It is easiest to push from the area shown to the left.)

CAUTION

Do not pull the PhotoPix LCD Monitor when removing it from the camera. Pulling the monitor could cause the LCD connector to break.

- 6 Replace the LCD inlet cover on the back of the camera.



12

Caring for the Camera and Troubleshooting

Your PhotoPC 500 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
- | Caring for the optional LCD Monitor
- | Solving Camera Problems
- | Solving Picture Problems

Caring for the Camera

Your PhotoPC 500 requires only basic care. Before you perform any maintenance procedures on the camera, be sure to read the Safety Instructions in the Introduction.

Then follow these guidelines:

Cleaning the Camera

- | Use a clean, dry cloth to keep the camera free of dust.
- | Don't use harsh or abrasive 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.

Storing the Camera

- | Keep the lens covered (power switched off) when you're not using the camera.

- l 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.

Don't store the camera in the following locations:

- l Where it will be exposed to direct sunlight, for example, on a car dashboard
- l Near sources of bright light or high humidity
- l Near heat sources or in a closed car
- l In areas of excessive light or dust
- l Where it will be exposed to strong vibrations or magnetic fields

Caring for the Optional LCD Monitor

Your PhotoPIX LCD Monitor requires only basic care. Before you perform any maintenance procedures on the camera, be sure to read the Safety Instructions in the Introduction. Then follow these guidelines:

Cleaning the LCD Monitor

- l Use a clean, dry cloth to keep the monitor free of dust.
- l Don't use harsh or abrasive cleaners.
- l If the monitor gets fingerprints or smudges on it, use a soft, damp cloth to lightly wipe the screen.
- l To avoid damaging the LCD display, do not apply too much pressure as you clean it.

Storing the LCD Monitor

- l Remove the LCD monitor from the camera when you are traveling with it or if you are not using it for long periods of time.
- l Store the LCD monitor in a camera bag or other covering that will keep it safe from dust.
- l Keep the monitor switched to Off when it is not attached to the camera.
- l When the LCD monitor is not attached to the camera, make sure the LCD inlet cover is attached.
- l See "Storing the Camera," above, for a list of conditions to avoid when storing the LCD monitor.

Camera Problems

Before you call for help, check this list of problems and possible solutions:

The camera has no power.

- l Check the power switch and make sure the camera is turned on.
- l The camera may have shut off automatically. Slide the power switch off and then on.
- l Check the batteries and make sure they are installed correctly. Replace the batteries if necessary, following the instructions on page 1-4.
- l 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.

- l The flash may be recharging. Wait until you see the green ready light, and try again.
- l The camera may be full. Check the picture counter on the control panel. Erase a picture using the erase button, or transfer the pictures to your computer and

then erase them. See Chapter 4 for information about transferring your pictures and Chapter 5 for information about erasing them with your computer.

- l 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 page 5-5 for instructions on taking pictures from your computer.

The flash doesn't work.

- l Make sure the flash is not set to flash off
- l Check the batteries and make sure they are installed correctly. Replace the batteries if necessary, following the instructions on page 1-4
- l 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.

You get an error message when you try to transfer your pictures to the computer

- l Make sure the cable is connected correctly as described on page 3-1.

- Make sure your camera is turned on and the batteries have enough power.
- Check the serial port settings in the Setup screen of your EPSON Photo! software. You may need to change the Port and Speed serial connection settings to Auto.
- If the Speed is already set to Auto, you may need to change the setting manually. Check the port settings in the Windows Control panel to see if the EPSON Photo! setting is too fast for your port. If it is, change the port setting to a faster speed, if you can. If you can't change it to a faster speed, adjust the speed in your EPSON Photo! software as described on page 3-6.
- Make sure the port to which your camera is connected is properly configured. The Base I/O port address and the Interrupt Request Number (IRQ) assigned to the port should not be in conflict with any other devices.

Your LCD monitor has a flickering image

- Check to see what sort of lighting conditions you are taking pictures under. If you are using View Mode of the LCD monitor under fluorescent light, the monitor may appear to flicker. This should not affect the appearance of your photos.

Your LCD monitor shuts itself off and the battery icon indicates that the batteries are used up.

- If you are using alkaline batteries, you may want to consider switching to rechargeable or lithium batteries when using the LCD monitor. These batteries last longer and work better with this option.
- If you are mostly using the LCD monitor in Playback mode, or taking indoor pictures, you may want to use the AC adapter. See Appendix A for instructions on ordering and using the AC adapter.

Picture Problems

If you're not satisfied with the pictures you get from PhotoPC 500, 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 500 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 don't support this color depth. You may need to upgrade your system to achieve the best possible image quality.
- If your pictures look better on the screen than when you print them out, you may need to upgrade your printer. An EPSON Stylus™ color ink jet printer, for example, produces high resolution, photo-quality images.
- You may have checked high-quality when you exported or transferred your image. This feature makes the image larger, but does not increase the resolution. The printed picture may not look as good as it appears on the screen.

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 (60 cm) away to take a picture without the flash, and 1.5 feet (45 cm) to 10 feet (3 m) away to take a picture with the flash.
When the optional PhotoPIX LCD Monitor is attached, you can take a picture from as close as 8 inches (20 cm) in Macro mode. See page 11-12 for information.
- Make sure you hold the camera steady, and your subject isn't moving.
If you want to photograph a moving subject, you can increase the shutter speed while the camera is connected to your computer. For information about changing the shutter speed, see page 5-4.
- Make sure your flash is not set to flash off.

Your picture is too dark (underexposed)

- You may need to use the flash. Make sure the setting is not flash off.
- If you are using the flash, make sure your subject is within the range of 1.5 feet (45 cm) to 10 feet (3 m).

- Use EPSON PhotoPC 500 imaging software to adjust the picture's brightness and contrast.
- If you're using the optional LCD monitor's Macro mode to take a close-up photo, make sure you provide adequate lighting for your subject. The camera's aperture is automatically adjusted to its smallest setting (F8) when 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.
- If you're taking pictures in the snow or on the beach on a sunny day, you may need to use an ND-filter. A 37 mm ND-4 camcorder filter should work. See page A-7 for more information.
- Use PhotoPC 500 image editing software to adjust the picture's brightness as described on page 8-2.

People or animals in your picture appear to have red eyes.

- Make sure you set your flash to red-eye reduction mode when taking pictures of people or animals.

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.
- In bright light, you may need to use an ND-filter to avoid glare. Try a 37 mm ND-4 camcorder filter.

The wrong date and/or time are displayed on your pictures.

- You need to connect the camera to your computer and reset the camera's clock. See Chapter 3 for instructions. Whenever you change the batteries in your camera you need to reset the clock.

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 PhotoPC 500 image-editing software to adjust the colors as described on page 8-3.

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 12-1.

The area captured in the picture is different from what you saw in the camera.

- You need to make sure you look straight through the viewfinder and capture your subject in the yellow frame.
- If you are using the optional PhotoPIX LCD Monitor, the picture looks different from the live preview. The image captured is actually slightly larger than what appears in the LCD screen.



Using Optional Accessories

PhotoPC 500's versatility allows you to use it with a variety of options. You can add the PhotoPIX LCD Monitor to play back and selectively erase your images. You can increase the camera's storage capacity by installing a 2MB or 4MB PhotoSpan module. To help you save battery power, you can use the AC adapter.

The accessories listed below should be available where you bought your PhotoPC 500. You can also order them from EPSON accessories at **(800) 873-7766** (U.S. sales only). In Canada, call **(800) 922-8911**.

Accessory	Part Number
PhotoPix LCD Monitor	A883051
2MB PhotoSpan Memory Module	A882401
4MB PhotoSpan Memory Module	A882411
PhotoPC 500 AC Adapter	B867027

For wide-angle pictures and special effects, you can use any standard 37 mm video camcorder lens or filter. See page A-7 for recommendations and ordering information.

For studio photos, you can attach a tripod to your camera.

This chapter includes the following instructions:

- I Expanding your PhotoPC 500 memory
- I Installing the PhotoSpan memory modules
- I Using the AC adapter
- I Using optional lenses
- I Attaching a tripod
- I Using a 9- to 25-pin serial adapter

For information on using the LCD Monitor, see Chapter 9.

Expanding Your PhotoPC 500 Memory

PhotoPC 500 comes with 2MB of internal memory, which holds 30 pictures at high resolution or 60 pictures at standard resolution. You can increase the camera's capacity by installing a 2MB or 4MB PhotoSpan external memory module (flash memory board), as described in the table below.

PhotoPC 500 Capacity

Number of Photos	2 MB internal memory	With 2MB PhotoSpan A882401	With 4 MB PhotoSpan A882411
At high resolution	30	65	100
At low resolution	60	130	200

Installing PhotoSpan Memory Modules

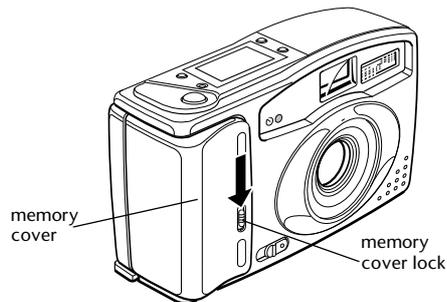
Before you install a PhotoSpan memory module, make sure you erase all the pictures in the camera and turn it off.

CAUTION

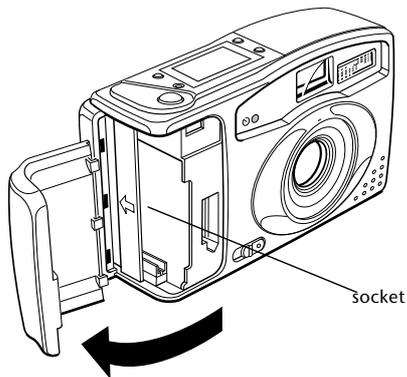
PhotoSpan modules are sensitive to static electricity and easily damaged. Be sure you ground yourself by touching a metal object before you handle the module, and never touch the module's metallic area.

Follow these steps to install a PhotoSpan module:

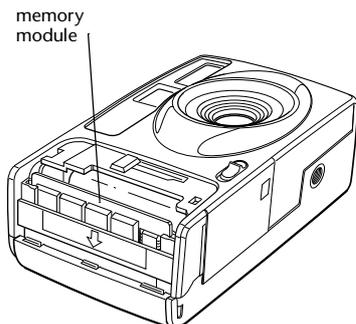
- 1 Slide the memory module cover lock down to release the cover.



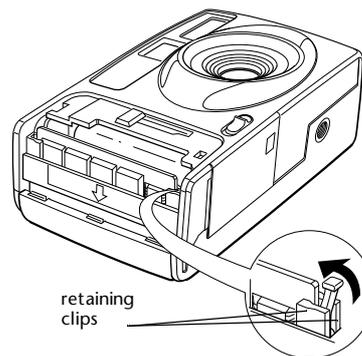
- 2 Grasp the cover and pull away as shown:



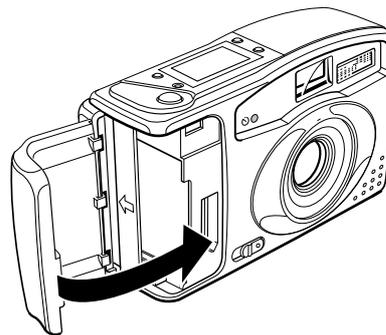
- 3 Place the module into the socket as shown.



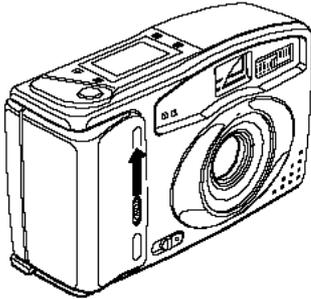
- 4 Press down on the module until it snaps into the retaining clips at the side of the socket.



- 5 Replace the cover on the camera body until it snaps into place.



- 6 Slide the lock up to lock the cover.



When you take your next picture, the pictures remaining number on the control panel shows your camera's expanded capacity.

With the expanded memory, you may notice a delay between the time you press the shutter button and when the camera beeps. You can reduce this delay by pressing the button down halfway, holding it until you're ready to take the picture, and then pressing it down the rest of way.

Removing the Memory Module

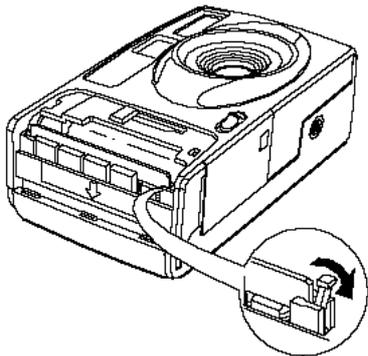
If you want to remove a memory module for any reason (such as upgrading from a 2MB to a 4MB module), follow these steps:

CAUTION

Do not remove and install the module repeatedly. Doing so may cause a bad connection or may damage the memory module.

- 1 Turn the camera off, then remove the memory module cover as described on page A-2

- 2 Press the lever on the side of the memory module socket to raise the module slightly out of the socket.



- 3 Grasp the edges of the memory module and work it up and out of the socket. Be careful not to touch the metal parts of the module.
- 4 Replace the memory module cover.

Using the AC Adapter

The AC adapter (B867027) allows you to connect your PhotoPC 500 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.

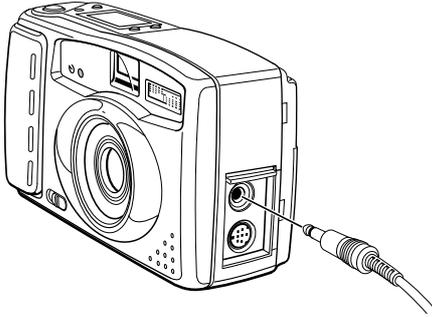
WARNING

- 1 *Use only the adapter designed for PhotoPC 500. Using any other adapter may cause fire, electrical shock, or injury.*
 - 1 *Do not alter the plug on the power cable, and do not use the adapter for any other purpose than powering your PhotoPC 500.*
-

To avoid losing any images or settings, make sure the camera is finished processing before you connect or disconnect the AC adapter. Then follow these steps:

- 1 Locate the port cover on the side of the camera. Press on the arrows and slide the cover to open it.

- 2 Plug the adapter cable into the DC port on the camera.

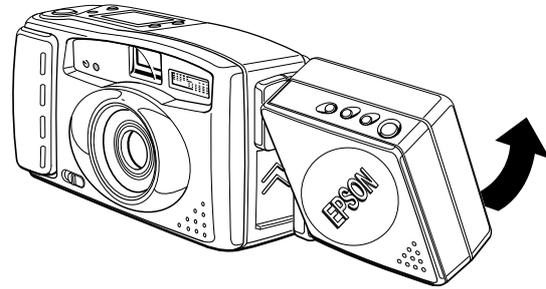


- 3 Connect the end of the power cable to an electrical outlet

Using the AC adapter with the LCD Monitor attached

If you are using the optional LCD Monitor and you want to connect the AC adapter to your camera, follow these steps:

- 1 Tilt the LCD Monitor away from the camera as shown:

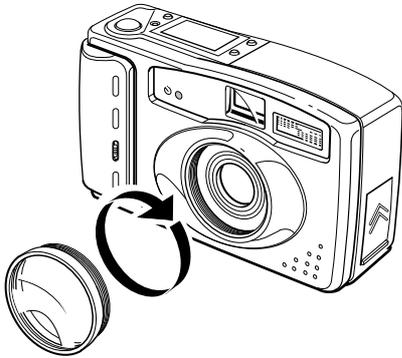


- 2 Follow the steps on page A-5 to connect the AC adapter to the camera.

Using Optional Lenses

Although you can use any standard 37mm video camcorder lens or filter with PhotoPC 500, lenses manufactured by Tiffen are recommended. Call DC Pro at (800) 522-7835 for ordering information.

To attach a lens, screw it onto the camera as shown below.



When you use a close-up lens, the viewfinder does not give you an accurate preview of your picture. The best way to take pictures is by using the optional LCD Monitor, as described in Chapter 9, or by connecting the camera to your computer as described in Chapter 3.

Attaching PhotoPC 500 to a Tripod

You can use your PhotoPC 500 digital camera with any standard tripod.

Follow these steps:

- 1 Assemble and set up the tripod following the manufacturer's instructions.
- 2 Make sure the tripod is well balanced on a flat surface.
- 3 Find the opening for the tripod screw on the bottom of your camera.
- 4 Carefully place the PhotoPC 500 on the tripod, and screw the camera on until it is firmly in place.
- 5 Follow the manufacturer's instructions to adjust the tripod to view your subject.

Using a 9 to 25 Pin Serial Adapter

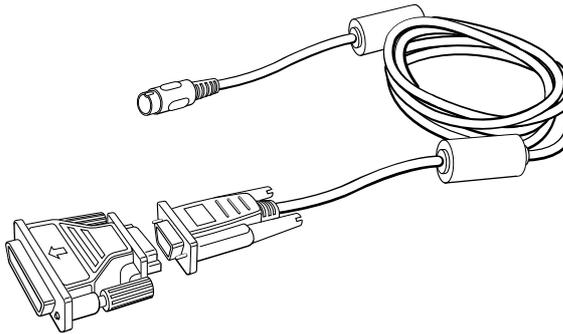
If you only have a 25-pin serial port available, you can use a 9 to 25 pin adapter for your serial cable.

NOTE

If you have both a 9-pin port and a 25-pin port free, you should use the 9-pin port to prevent possible communication problems.

Follow these steps to connect a 25-pin adapter to your serial cable:

- 1 Connect the serial cable to the smaller end of the adapter as shown:



- 2 Tighten the screws.

- 3 Locate the 25-pin serial port on your computer and follow the steps on page 3-1 to connect to your computer, using your 25-pin port instead of a 9-pin port.



Specifications

Camera

Physical Dimensions

Width 5.59 in (142 mm)

Height 3.19 in (81 mm)

Depth 2.09 in (53 mm)

Weight (without batteries) 0.66 lbs (300 g)

Power

Sources

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

Optional AC adapter (B867027)

Consumption

Approximately 100 mW at power-on

Approximately 4 W during image processing

Maximum 12 W during flash discharge

Battery Life

Approximately 300 pictures (high resolution) can be taken before the batteries run out. (with new alkaline batteries, 150 flashed and 150 non-flashed pictures, without the optional LCD Monitor attached)

Technical

Product Type	CCD (charged coupled device) still frame camera
Image size	640 × 480 pixels (high resolution) 320 × 240 pixels (standard resolution)
Bit depth	16 million colors, 24-bit
Serial interface	8-pin DIN (camera) RS-232C, communication speed: 19,200 bps or higher (PC)
Internal memory	2MB flash memory
Optional expansion memory	2MB (0.5MB flash memory × 4 chips) 4MB (0.5MB flash memory × 8 chips)

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 = 6 mm (equivalent to a 43 mm lens on a 35 mm camera)
Range	2 feet (60 cm) to infinity 8 inches (20 cm) to infinity (Macro mode with optional PhotoPIX LCD Monitor)
Exposure	Equivalent to ISO 130
Shutter	Automatic electronic shutter, 1/30 to 1/10,000 second
Viewfinder	Optical
Aperture	F2.8/8 automatic change
Flash modes	forced flash, automatic, red-eye reduction, flash off
Flash range	1.5 to 10 ft (0.45 to 3 m)

Optional LCD Monitor

Physical Dimensions

Width	5.08 in (129 mm)
Height	2.72 in (69 mm)
Depth	1.97 in (50 mm)
Weight	0.31 lb (141 g)

Power

Source	Supplied from camera
Consumption	

Technical

LCD Panel	1.8 in, TFT color LCD
Display resolution	279 × 220 pixels

Optional AC Adapter

Physical Dimensions

Width	1.97 in (50 mm)
Height	1.18 in (30 mm) 1.85 in (47 mm) including pins
Depth	3.74 in (90 mm)

Power

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