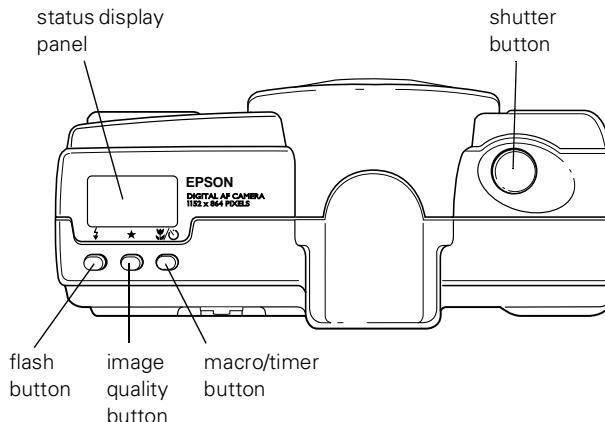
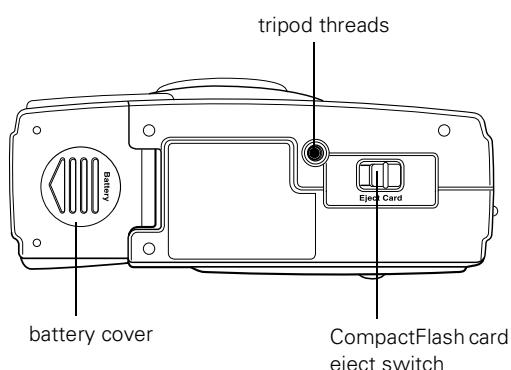


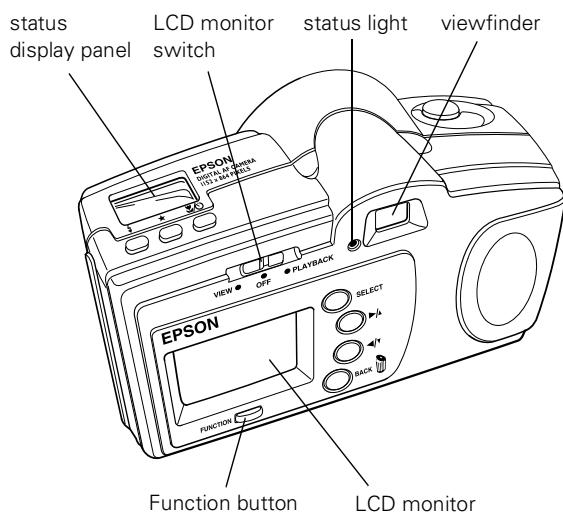
front view



top view



bottom view



back view

## Camera Specifications

### Physical Dimensions

Width	5.3 inches (134.5 mm)
Height	3.2 inches (81 mm)
Depth	2.2 inches (57 mm)
Weight	11.1 oz, ± 0.4 oz (315 g, ± 10 g), without batteries

### Safety Specifications

Conforms to FCC specifications.  
FCC Declaration of Conformity on file.

### Power Sources

Includes 4 AA alkaline batteries. Also accepts lithium or rechargeable NiCad or NiMH batteries.

Optional AC adapter (B867038)

Optional rechargeable NiMH Power Pak with charger and four batteries; universal voltage (B818172) or 110 V (B818051)

### Environmental

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

**Technical**

Product type	1.09 megapixel CCD (charged coupled device), still frame, auto focus camera
Image quality modes (pixels)	Uncompressed JPEG: 1152 × 864 Superfine: 1152 × 864 (low compression) Fine: 1152 × 864 (medium compression) Standard: 640 × 480 (VGA)
File format	JPEG
Color modes	16.7 million colors or 24-bit
Lens type	Five elements in four groups, aspherical glass lens
CCD sensor	1/3 inch color area (1.09 megapixels)
Serial interface	1 pin RCA type (to camera); RS-232 9-pin (to Windows computer); 8-pin mini-DIN (to Macintosh)
Serial communication speed	Up to 115.2Kbps (Windows) or 230.4Kbps (Macintosh) with high-speed serial port
Storage type	ATA-compatible CompactFlash cards; 8MB USB enabled CompactFlash card standard (described below)
USB CompactFlash card	8MB flash memory Average picture storage capacity: Standard: 88 (640 × 480 pixels) Fine: 47 (1152 × 864 pixels) Superfine: 30 (1152 × 864 pixels) Uncompressed: 4 (1152 × 864 pixels)
Optional expansion memory	USB enabled CompactFlash cards from 4MB to 64MB (available from Lexar Media) or ATA-compatible CompactFlash cards from 4MB to 80MB (available from Lexar Media or SanDisk)
Video out	NTSC or PAL standard (user-selectable)

**Photographic**

Lens	EPSON ClearOptics aspherical glass lens, 6 mm focal length (equivalent to a 39 mm lens on a 35 mm camera)
Auto focus range	11.8 inches (0.3 m) to infinity 5.9 to 23.6 inches (15 to 60 cm) in macro mode
LCD monitor	1.8-inch active matrix TFT color LCD; 280 × 220 resolution; 15 to 18 frames per second refresh rate; instant preview and playback modes
Sensitivity	Equivalent to ISO 140
Exposure control	Program auto exposure
White balance	Full automatic TTL white balance through lens
Shutter	Electromechanical shutter, 1/4 second to 1/500 second speed
Viewfinder	Virtual, with edge border (80% accuracy)
Aperture	f2, f4, f5.6, f11
Flash modes	Automatic, forced flash, red-eye reduction flash, or flash off
Flash range	3.2 to 9.8 ft (1 to 3 m)

**Lexar Media JumpShot USB Cable Specifications**

Interfaces	CompactFlash Type I socket for USB CompactFlash card; USB type A connector for Windows® 98 PC, iMac™, or Power Macintosh® G3
LED indicator	Steady green when the USB CompactFlash card is recognized; flashing green during data transfer
Adapter dimensions	Length: 3 inches (76 mm) Width: 1.5 inches (38 mm) Height: 0.7 inch (17.5 mm)
Cable length	2.5 feet (0.8 meters)

## Optional AC Adapter Specifications

### Physical Dimensions

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

### Technical

Output	DC 7V/2.0A
Input	110 to 120 V AC, 50 to 60 Hz
Model number	EU-19
Product code	B867038

### Box Contents

- EPSON PhotoPC 650 camera and handstrap
- EPSON PhotoPC 650 User's Guide*
- 4 AA alkaline batteries
- 8MB Lexar Media USB-enabled CompactFlash card (in envelope marked "ATTENTION!")
- Lexar Media JumpShot USB cable
- Serial cable for PC or Macintosh® (use with adapter cable on Macintosh)
- Macintosh adapter cable (use with serial cable)
- Software on CD-ROM: PictureWorks™ HotShots™, EPSON PhotoPC 650 TWAIN driver (Windows) or Plug-In (Macintosh), JumpShot USB cable and CompactFlash card drivers

### Optional Accessories

EPSON accessory	Product code
EPSON PhotoPC 650 AC Adapter	B867038
Universal NiMH Power Pak with four rechargeable batteries and universal charger	B818172
NiMH Power Pak with four rechargeable batteries and 110V charger	B818051
Replacement or additional NiMH rechargeable batteries for the NiMH Power Pak	B818061

If you want to increase your camera's picture storage capacity or keep an extra CompactFlash card on hand, you can install these types of CompactFlash cards in your camera:

- New USB Enabled CompactFlash cards, or
- Traditional ATA-compatible CompactFlash cards

If you transfer pictures via the Lexar Media JumpShot USB cable, you can purchase additional USB Enabled CompactFlash cards from Lexar Media. Your camera comes with an 8MB USB CompactFlash card, but you can obtain a higher capacity card, such as a 16MB, 32MB, 48MB, or 64MB card.

#### NOTE

If you need an optional replacement JumpShot USB cable or additional USB Enabled CompactFlash cards, contact Lexar Media at (800) 789-9418.

If you transfer pictures via the serial cable, you can purchase either USB-enabled or ATA-compatible cards for your camera. If your computer has a Type II PCMCIA card slot, you can also transfer your pictures using an optional PCMCIA CompactFlash card adapter.

Additionally, you can expand the capabilities of your camera by attaching standard 37 mm video camcorder lenses and filters from manufacturers such as Tiffen.® You can order optional wide angle, telephoto, and close-up lenses and filters from DC PRO: Phone, (800) 522-7835 or (516) 434-8800; Fax, (516) 434-9238; e-mail, [info@dcprodirect.com](mailto:info@dcprodirect.com).

For portraits or studio photographs, you can attach a tripod to the camera.

### System Requirements

System element	Windows	Macintosh
<b>System and processor</b>	PC with 486/66 or higher processor (Pentium, recommended)	Macintosh with PowerPC™ or higher processor, iMac, or Power Macintosh G3
<b>Operating system</b>	Serial transfer: Windows 95, Windows 98, or Windows NT® 4.0  USB transfer: Windows 98	Serial transfer: System 7.6 or higher  USB transfer: System 8.1 with iMac Update 1.0, or System 8.5 or higher *
<b>RAM</b>	At least 16MB (32MB recommended)	At least 16MB (32MB recommended)

System element	Windows	Macintosh
<b>Ports</b>	Serial transfer: available serial port  USB transfer: Windows 98 and an available USB port	Serial transfer: available serial port  USB transfer: iMac or Power Macintosh G3 with an available USB port
<b>Display</b>	VGA or SVGA monitor displaying thousands of colors	VGA monitor displaying thousands of colors
<b>Hard drive space</b>	At least 50MB free	At least 50MB free
<b>CD-ROM drive</b>	Double-speed	Double-speed
<b>Pointing device</b>	Mouse or other pointing device	Mouse or other pointing device

- \* If your iMac is running OS 8.1, you **must** install iMac Update 1.0 from Apple at <http://swupdates.info.apple.com> before you install the Lexar Media JumpShot USB drivers. Contact Apple Computer if you have questions while installing this update.

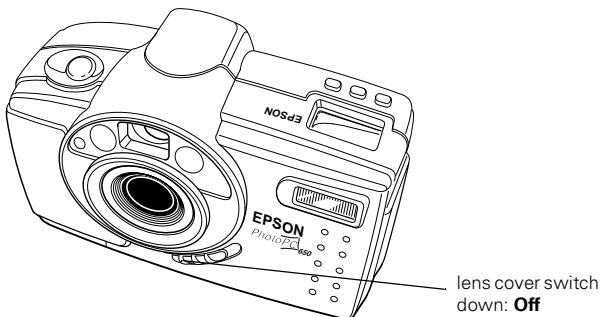
If your iMac is running OS 8.5, you **do not** need to install iMac Update 1.0. Your operating system already includes full support for the Lexar Media JumpShot USB drivers.

To find out which operating system your iMac is running, select **About This Computer** from the Apple menu.

## Installing the CompactFlash Card

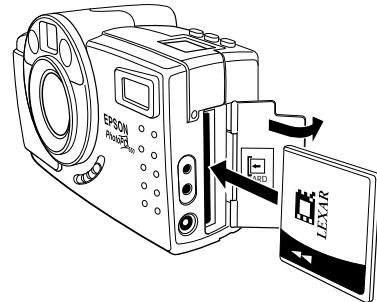
Follow these steps to install the USB CompactFlash card:

1. Before you start, make sure the camera is turned off. The lens cover switch should be in the off position.



2. Remove the USB CompactFlash card from the envelope labelled "ATTENTION!".

3. Open the camera's card and port cover and insert the card all the way into the slot, as shown below. Make sure the card's label faces the front of the camera.

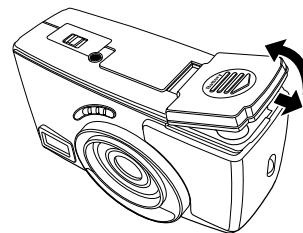


4. Close the card and port cover.

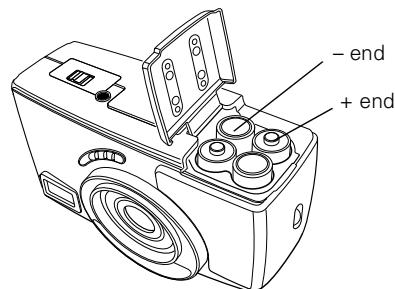
## Installing Batteries

Before you install the four AA alkaline batteries that came with the camera, make sure the camera is turned off (the lens cover switch is in the off position). Then follow these steps:

1. Turn the camera upside down with the front of the camera facing you.
2. Push the battery cover down and to the right. Then raise the cover.



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



4. Close the battery cover by sliding it to the left while pressing it down until it snaps into place. See the next section for important information about using your batteries safely and efficiently.

## Using Batteries Safely and Efficiently

When your batteries need to be replaced, the EPSON PhotoPC 650 camera can accept four AA batteries of the following types:

- Rechargeable NiMH batteries (recommended)
- Rechargeable NiCad batteries
- Single-use alkaline batteries
- Single-use lithium batteries (longer life)

### WARNING

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

EPSON offers an optional NiMH Power Pak that includes a charger and rechargeable batteries for convenient battery replacement whenever you need them.

### TIP

When you're transferring pictures to your computer with the serial cable, you'll use more battery power, so it's best to power the camera with the optional AC adapter.

To save battery power, use the camera's View mode sparingly. You can still view pictures before saving them with the Quick Review feature.

Note the following as you use batteries:

- Don't use manganese batteries.
- Replace all four batteries at the same time; don't mix old and new batteries.
- Don't drop, puncture, disassemble, or mutilate batteries. Don't get them wet or expose them to fire.
- When the camera isn't used for long periods of time, remove the batteries and store them at a low temperature in a dry location. Store away from children.
- To avoid fire or electric shock, don't use batteries that are leaking or damaged in any way.
- If battery acid gets in your eyes or on your skin, immediately rinse the area with water and seek medical treatment. If a battery is swallowed, seek medical treatment immediately.
- Dispose of used batteries according to the manufacturer's instructions and in compliance with all applicable laws. Contact your local government agency for information about battery recycling and disposal.
- Battery life varies depending on the battery type, the manufacturer, and other factors.
- Avoid using your camera in low temperatures, especially below 50 °F (10 °C); this drains your batteries faster.

## Formatting the USB CompactFlash Card

Before you use your camera for the first time, you need to format your USB CompactFlash card so it can store your pictures. After that, you only need to format the card if a message appears on the LCD monitor instructing you to do so or if you want to quickly erase all the pictures it contains.

Make sure you installed the USB CompactFlash card in the camera (as described on page 4), and set the camera's date and time, then follow these steps:

1. On the back of the camera, set the monitor switch to **PLAYBACK**.
2. Press the **SELECT** button to display the LCD monitor menus.
3. Press the **►/▲** or **◀/▼** button until you see the Photo Control menu. Then press the **SELECT** button to display the menu options, as shown below:



4. Press the **►/▲** or **◀/▼** button until **Reformat** is highlighted, then press the **SELECT** button. A warning message appears.
5. Press the **SELECT** button again to format the card and return to the Photo Control menu.
6. Press **BACK** until you return to normal playback mode.

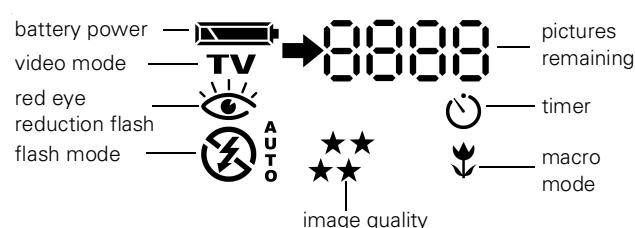
### NOTE

Your USB CompactFlash card works with any ATA-compatible digital camera, such as EPSON's PhotoPC 600, 700, or 750Z cameras.

If you have problems formatting or using your CompactFlash card, contact Lexar Media.

## Using the Display Panel

The status display panel shows the current camera settings and the status of your battery power:



## Checking the Battery

When your battery power is running low, the  low battery icon appears on the status display panel. The icon flashes when your battery power is completely out.

You need to replace the batteries or use the AC adapter when you see the low battery icon. Although you may be able to use the camera with low batteries, it may operate differently. The camera needs full battery power to operate reliably.

### NOTE

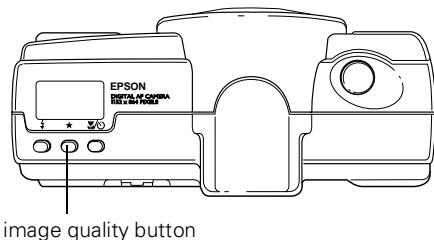
The  low battery icon estimates remaining battery power. You may have some power left even when the low battery icon appears, depending on the type of batteries you're using. When you see the icon, try turning the camera off and letting the batteries "rest" for a minute or two. Then turn the camera back on and try to take more pictures.

Many factors can affect battery life, including the surrounding temperature.

## Setting Image Quality

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The EPSON PhotoPC 650 has four image quality (resolution) settings. Press the  image quality button on top of the camera to cycle from one setting to the other.



The image quality settings vary by the number of pixels and level of compression used to store the picture.

Pixels (picture elements) are the tiny "dots" of color or tone that make up the image. Your eye blends the pixels together so they appear as continuous tones; the more pixels in an image, the sharper the image appears.

Compression is a technique used to make the image data fit in a smaller memory area and transfer at a quicker rate. The JPEG compression used by your camera eliminates some image data ("lossy" compression) to achieve these results. The **Uncompressed** image quality setting doesn't eliminate image data ("lossless" compression), but the images are much larger and slower to transfer.

You can select from these image quality settings:

### Fine

 Produces color images at 1152 × 864 pixels, with moderate compression. Your pictures include ample detail, and the CompactFlash card holds approximately 47 pictures.

### Superfine

 Produces color images at 1152 × 864 pixels with low compression. Your pictures include greater detail, and the CompactFlash card holds approximately 30 pictures. With less compression, superfine images are better for enlarging.

### Standard

 Produces color images at 640 × 480 pixels. The CompactFlash card holds approximately 88 pictures, but the image size is smaller and includes less detail when enlarged. You should use this setting when taking lower resolution pictures for distribution on the World Wide Web.

### Uncompressed

 Produces color images at 1152 × 864 pixels with lossless compression. The CompactFlash card holds approximately 4 pictures in this mode. It's best to use this mode only for specialty applications that require uncompressed pictures.

Fine image quality is sufficient for most purposes. Use superfine if you need maximum detail (in enlargements, for example), but remember that the image files are larger than fine quality image files and take longer for the camera to process.

### NOTE

You can switch freely between the settings and mix pictures of varying quality in the camera. The camera's picture capacity will vary accordingly. Depending on the content of your pictures, your camera may hold more or fewer pictures than listed here.

## Using the Flash

---

The camera's built-in flash is effective within a range of 3.2 to 9.8 feet (1 to 3 m). Press the  flash button to cycle through the four flash settings. An icon for each setting appears on the status display panel:

### Auto

 The flash goes off automatically whenever it's needed for adequate lighting (factory setting). Use only when you're 3.2 to 9.8 feet (1 to 3 m) from your subject.

### Forced Flash

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

### Flash Off

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

### Red-Eye Reduction Flash

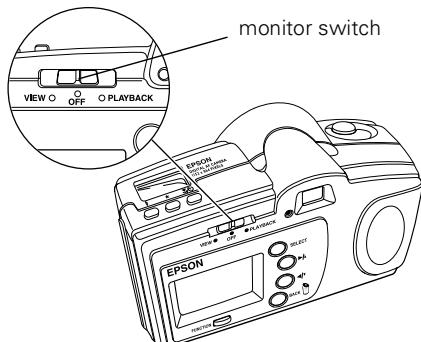
 The flash blinks on and off rapidly, then flashes normally to prevent light from shining directly off your subject's pupils. Use this setting for flash pictures of people or animals.

Your flash setting remains in effect even after you turn off the camera.

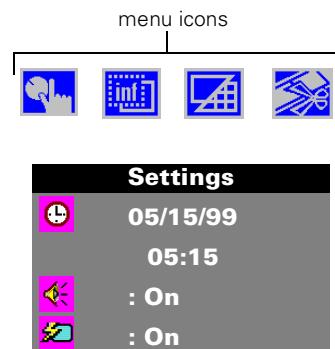
## Using Playback Mode Menus

Follow these steps to use the playback mode menus:

1. Turn on the camera.
2. Slide the monitor switch right to **PLAYBACK**. After a moment, the last photo you took appears on the LCD monitor.



3. To access the menus, press the **SELECT** button. Blue menu icons appear at the top of the monitor with the currently selected menu highlighted in green.



4. Press the **►/▲** and **◀/▼** buttons to view the settings for other menus.

You can choose from the following menus:

- Settings** (set the date, time, beep, and Quick Review mode, and LCD brightness).
- Information** (turn off the display of information on played-back pictures).
- Playback Mode** (play back images one at a time or in groups of 9).
- Photo Control** (erase or lock your pictures, or reformat CompactFlash cards).
- Video** (NTSC or PAL video output to standard TV).
- Slide Show** (play back pictures automatically).
- Language** (select language for LCD display and menus).

5. To exit the menus, press the **BACK** button until the menu icons and settings disappear. (Depending on the menu, you may have to press this button several times to return to playback mode.)
6. When you're finished with playback mode, slide the monitor switch **OFF**.

## Playing Back Pictures on TV or Video

**TV** You can display your pictures on a regular television or videotape them with a VCR by using the video cable that came with your EPSON PhotoPC 650. First, select the correct video standard: NTSC (for the US and Canada) or PAL (for Europe, South America, and other areas).

### Setting the Video Standard

Set the monitor switch to PLAYBACK and follow these steps to select a video standard:

1. Press the SELECT button to display the LCD monitor menus.
2. Press the **►/▲** or **◀/▼** button until you see the Video menu:



3. Press the SELECT button to select the video standard you want to use.
4. Press the BACK button to return to playback mode.

### Playing Back Pictures

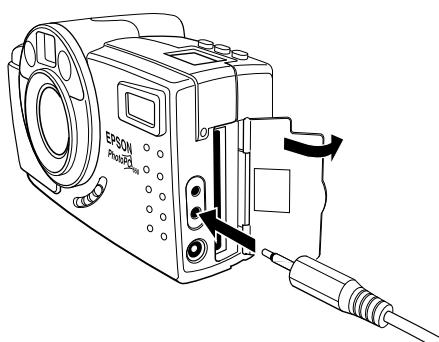
Using the optional AC adapter is highly recommended when you play back your pictures on a TV.

#### TIP

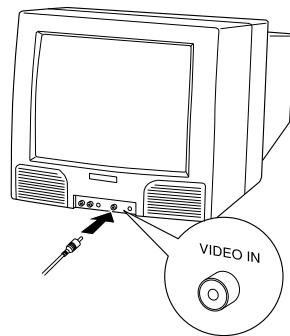
You can videotape your pictures to share them without using a computer. First set the camera's LCD monitor to **Slide Show**. Then connect the camera to the Video In port on your VCR and press the Record button.

Follow these steps to play back your pictures on TV:

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



3. Connect the yellow end of the cable to the VIDEO IN port on the television or VCR.



4. Turn on the TV (and VCR) and switch to the correct video mode.
5. Turn on the camera and slide the monitor switch to PLAYBACK.
6. Press the SELECT button on the back of the camera. The last picture you took appears on the TV screen. Press the **►/▲** or **◀/▼** button to move forward or backward through your pictures.
7. When you're finished viewing pictures, press the BACK button, slide the LCD monitor switch to OFF, turn off the camera, and disconnect the video cable.

## Getting Pictures into Your Computer

The fastest way to transfer your pictures from your camera to your computer is using the JumpShot USB cable. If you have a Windows 98 system with a USB port or an iMac or Power Macintosh G3, you can remove the USB CompactFlash card from your camera, insert it in the JumpShot USB cable, and transfer pictures directly from the card. See the next section for instructions.

If you don't have compatible USB support on your system, you can transfer your pictures by connecting the serial cable and using HotShots. See page 12 for instructions.

### Transferring Photos with the JumpShot USB Cable

To transfer your pictures using the JumpShot USB cable, you need the following:

- A computer with USB support (Windows 98, iMac, or Power Macintosh G3 only; see page 3 for details)
- The JumpShot USB cable that came with your camera
- The JumpShot USB cable and USB CompactFlash card drivers installed on your computer

On an iMac or Power Macintosh G3, you installed the Lexar USB drivers when you installed the rest of your camera software. With Windows, you'll install the Lexar driver when your system detects the connected JumpShot USB cable and USB CompactFlash card.

### Inserting the USB CompactFlash Card in the JumpShot USB Cable

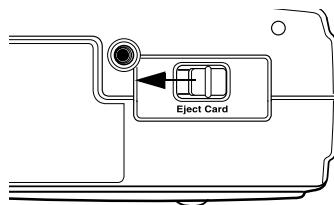
Follow these CompactFlash card and USB cable precautions:

- ❑ Insert only a Lexar Media USB CompactFlash card in the JumpShot USB cable. You can identify it by the USB logo on the label. The JumpShot USB cable won't recognize any other type of CompactFlash card.
- ❑ Never insert any other object into the slot on the USB cable; you'll damage the cable components.
- ❑ Never use a USB extension cable with the USB cable.

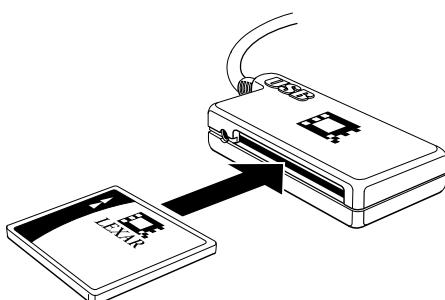


Before you can insert the USB CompactFlash card in the cable, you need to remove it from the camera. Make sure the camera and the LCD monitor are turned off. Then follow these steps:

1. Open the card and port cover on the side of the camera. Then slide the **Eject Card** switch on the bottom of the camera to eject the card, as shown below.



2. Remove the card by hand, then close the card and port cover.
3. Insert the card into the slot in the cable connector with the label facing toward the side of the connector stamped "USB." Make sure the pin holes on the card face into the connector slot. Push the card all the way into the slot.



### Connecting the JumpShot USB Cable

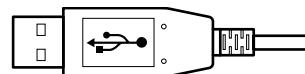
You can connect the USB cable to your computer's USB port or USB hub while your computer is turned on or off.

1. Locate an available USB port or USB hub port on your computer system. See your computer documentation for instructions.

#### NOTE

If your system can't recognize the USB CompactFlash card when it's connected to a USB port on the keyboard or monitor of an iMac or Power Macintosh G3, or a hub port on any system, connect the USB cable directly to a USB port on your computer instead.

2. Position the JumpShot USB cable connector so the side shown here faces the correct direction for your port. Then connect it to your computer's USB port or USB hub port.



If you have a Windows 98 computer, see the next section for instructions on installing the USB CompactFlash card and USB cable drivers. If you have a Macintosh, see page 11 for instructions on transferring your pictures.

### Installing the Windows 98 USB CompactFlash Card and USB Cable Drivers

The first time you connect the USB CompactFlash card and JumpShot USB cable to your system, you need to install their Windows 98 USB drivers using the plug-and-play function. Follow these steps:

1. Make sure the USB CompactFlash card is inserted into the JumpShot USB cable, and that the cable is connected to your computer.
2. Turn on your computer (if it wasn't already turned on). During plug-and-play installation, the light on the cable turns on. (If it doesn't turn on, see Chapter 9 of the *User's Guide* for troubleshooting information.)
3. You see the Add New Hardware Wizard that tells you Windows 98 has detected new hardware on your system. Click **Next**.



4. You see the screen below. Click **Search for the best driver for your device**. Then click **Next**.



click this option

5. You see the screen below. Click **CD-ROM drive**. Then click **Next**.



click CD-ROM drive

6. You see a message that a driver was located for the USB cable, called **LexarMedia JumpShot**. Click **Next**, then click **Finish** on the next screen.

7. You see the Add New Hardware Wizard screen again. Repeat steps 2 through 4.

8. You see a message that a driver was located for the USB CompactFlash card, called **LexarMedia USB CF Mass Storage Device**. Click **Next**, then click **Finish** at the next screen.

To check if your driver installation was successful, do the following:

1. Click **Start**, point to **Settings**, and click **Control Panel**.
2. Double-click the **System** icon.
3. Click the **Device Manager** tab.
4. Click the **+** next to **Universal serial bus controller** in the device list. You should see **LexarMedia JumpShot** listed as a USB device.

## Transferring Pictures with Windows 98

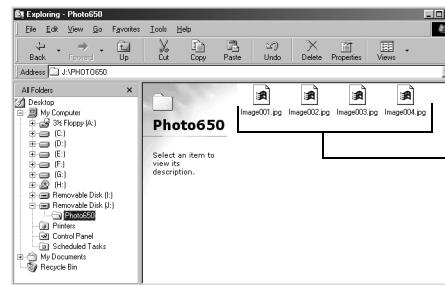
Follow these steps to transfer your pictures via the JumpShot USB cable with Windows 98:

1. Right-click **Start**, then select **Explorer** from the pop-up list. (Or click **Start**, point to **Programs**, and click **Windows Explorer**.)
2. You see the Exploring window. Locate the USB CompactFlash card drive.

The card is identified as the next available drive letter on your system and described as a **Removable Disk**. For example, if your hard disk is drive C and your CD-ROM is drive D, the USB CompactFlash card is assigned as drive E.

Click the **+** next to the drive letter to open its contents.

3. You see the **Photo650** folder on the card. Click the **Photo650** folder icon. You see a list of your pictures:



your pictures

4. Now locate the folder on your computer's hard disk you want to copy the pictures to. For example, if your hard disk is drive C and you have a folder called **Pictures**, locate that folder in the Exploring window.
5. Adjust the window as necessary until you can see both the **Photo650** folder on the card and the folder you want to copy the pictures to on your hard disk.
6. To copy all the pictures in the camera at once, click the **Photo650** folder, hold down the mouse button, and drag it to the picture folder on your hard disk. Release the mouse button.

To copy individual pictures, click the **Photo650** folder to open it. Then click the picture in the folder. To copy multiple pictures, press either the **Shift** or **Ctrl** key as you click the pictures you want. Then hold down the mouse button, drag the pictures to the picture folder on your hard disk, and release the mouse button.

As it accesses data on the card, the light on the USB cable flashes. (If your computer enters a power-saving sleep mode, the cable light turns off.)

### Properly Ejecting the Card

When you've finished transferring pictures, close the **Photo650** folder and exit any open applications. In Windows Explorer, right-click the card drive letter (such as E:) and click **Eject**. Then pull the CompactFlash card out of the USB cable slot and install it back in your camera.

#### CAUTION

Never remove the USB CompactFlash card or unplug the USB cable when the **Photo650** folder is open or any applications are running on your system. Close the **Photo650** folder and exit all your applications first.

Always select **Eject** in Windows Explorer (as described above) or wait at least 10 seconds after the last card activity before removing the card. Never remove the USB CompactFlash card while the light on the JumpShot cable is blinking.

On some computers, you may have to unplug the JumpShot USB cable before removing the USB CompactFlash card from the cable slot.

You can disconnect the Jumpshot USB cable from your computer, if you want, or leave it connected. However, once you remove the USB CompactFlash card, the computer no longer recognizes it as a drive.

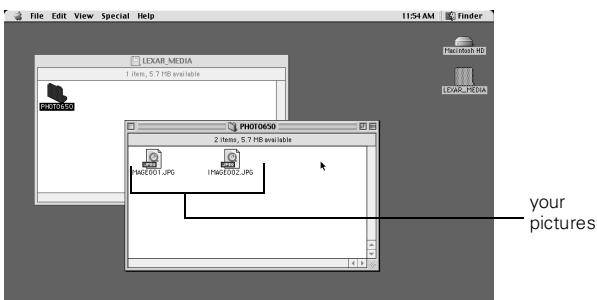
#### TIP

If you're using the JumpShot USB cable to transfer pictures, it's a good idea to check Lexar Media's web site periodically for possible updates to your USB CompactFlash card and JumpShot USB cable drivers. Access [www.lexarmedia.com](http://www.lexarmedia.com) for details.

### Transferring Pictures with a Macintosh

Follow these steps to transfer your pictures via the JumpShot USB cable with an iMac or Power Macintosh G3:

1. Make sure the USB CompactFlash card is inserted into the JumpShot USB cable, and that the cable is connected to your Macintosh.
2. Turn on your Macintosh (if it isn't already turned on).
3. You see a diskette icon for the USB CompactFlash card on your desktop. Double-click the icon to open the card folder, then double-click the **Photo650** folder to see your picture icons.



4. Now locate the folder on your hard disk you want to copy the pictures to. For example, if you have a folder called **Pictures**, open that folder on your hard disk.
5. Adjust the folders as necessary until you can see both the **Photo650** folder on the card and the folder you want to copy the pictures to on your hard disk.
6. To copy all the pictures in the camera at once, click the **Photo650** folder, hold down the mouse button, and drag it to the picture folder on your hard disk. Release the mouse button.

To copy individual pictures, click the **Photo650** folder to open it. Then click the picture in the folder. To copy multiple pictures, click and drag a box around the pictures you want. Then click and drag the box to the picture folder on your hard disk, and release the mouse button.

As it accesses data on the card, the light on the USB cable flashes. (If your Macintosh enters a power-saving sleep mode, the cable light turns off.)

### Properly Ejecting the Card

When you've finished transferring pictures, close the **Photo650** and card folders and exit any open applications. Then drag the card icon into the **Trash** folder. (Always drag the card icon into the trash before removing the card—don't use the **Eject** command from the **Special** menu.) Pull the CompactFlash card out of the USB cable slot and install it back in your camera.

#### CAUTION

Never remove the USB CompactFlash card or unplug the USB cable when the **Photo650** folder is open or any applications are running on your system. Close the **Photo650** folder, exit all your applications, and drag the card icon into the **Trash** folder first.

Never remove the USB CompactFlash card while the light on the JumpShot cable is blinking.

You can disconnect the Jumpshot USB cable from your Macintosh, if you want, or leave it connected. However, once you remove the USB CompactFlash card, the Macintosh no longer recognizes it as a drive.

#### TIP

If you're using the JumpShot USB cable to transfer pictures, it's a good idea to check Lexar Media's web site periodically for possible updates to your USB CompactFlash card and JumpShot USB cable drivers. Access [www.lexarmedia.com](http://www.lexarmedia.com) for details.

### Erasing Pictures

It's best to erase the pictures from the USB CompactFlash card after you re-install it in your camera using the camera's **Reformat** mode (see page 5 for instructions). However, you can also erase pictures from the card while it's connected to your computer by the adapter.

To erase pictures from the card, select the pictures inside the Photo650 folder and press the **Delete** key. Then confirm the deletion at the prompt.

## Transferring Pictures with the Serial Cable and HotShots

Follow the steps in these sections to transfer your pictures directly from the camera using the serial cable and HotShots:

- ❑ Connecting the camera to a Windows PC or Macintosh
- ❑ Transferring pictures using HotShots

### NOTE

When the camera is connected to your system, you can't use any of the camera controls.

To save battery power, you can leave the camera turned off as you transfer the pictures or connect the optional AC adapter.

## Connecting the Camera to a Windows PC

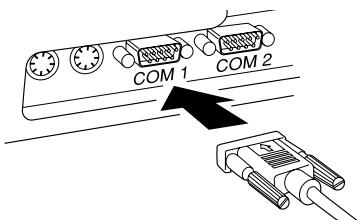
Make sure you have the serial cable that came with your camera. Before you start, turn off the camera, LCD monitor, and your computer.

1. Locate a serial port on the back of your computer. You may have two serial ports labeled COM1 and COM2, or they may be labeled with icons. For the best results, use COM1 (port 1) to connect your camera.

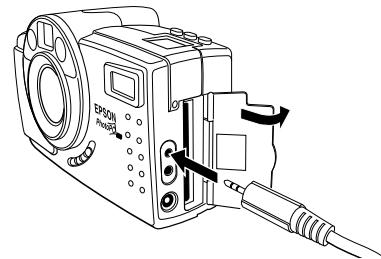
### NOTE

If you have a 25-pin serial port, you can use a 9- to 25-pin adapter, available at most computer stores.

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



3. Open the card and port cover on the side of the camera. Then insert the other end of the cable into the camera's serial port.



4. Turn on your computer system.

### NOTE

If you have problems connecting to your COM port, check your COM port settings and try again. If you have a high-speed serial board, you may be able to transfer pictures at 230.4Kb per second. Change your Port speed setting with EPSON PhotoPC 650 TWAIN.

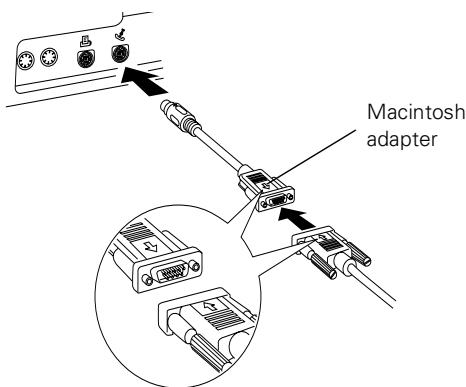
## Connecting the Camera to a Macintosh

Make sure you have the long serial cable and short Macintosh adapter that came with your camera. Before you start, turn off the camera, LCD monitor, and Macintosh.

### NOTE

On a PowerPC Macintosh, you may be able to transfer your pictures at 230.4Kb per second. Select your Port setting with the EPSON PhotoPC 650 Plug-In.

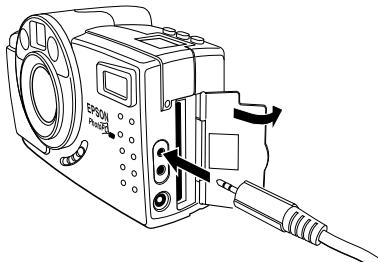
1. Connect the small Macintosh adapter cable to either the modem port or printer port on the back of your Macintosh. Line up the arrow on the cable connector with the port icon on your Macintosh. Then insert the connector.



### NOTE

If you share a serial port with another device, make sure AppleTalk™ is turned off. Your Macintosh may not recognize the camera if AppleTalk is on. Also, if you have problems connecting to the printer port, use the modem port instead.

2. Connect the long serial cable to the short Macintosh adapter cable, then tighten the screws.
3. Open the card and port cover on the side of the camera and insert the connector on the long serial cable into the camera's  serial port.



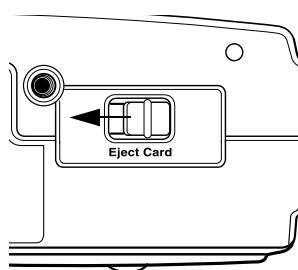
4. Turn on your Macintosh system.
5. Transfer your pictures using HotShots, as described in the *User's Guide*.

## Removing a CompactFlash Card

### CAUTION

Never remove the card while the camera is accessing it. Data in the card will likely be lost or damaged. Avoid using or storing the card in direct sunlight or in dusty, hot, or humid places.

1. Make sure the camera and the LCD monitor are turned off.
2. Open the card and port cover on the side of the camera. Then slide the **Eject Card** switch on the bottom of the camera to eject the card, as shown below.



3. Remove the card, then close the card and port cover.

## Transferring Pictures with a PCMCIA Adapter

A PCMCIA adapter allows you to transfer pictures stored on a USB-enabled or ATA-compatible CompactFlash card directly to your computer or laptop. To use this adapter, your computer must be equipped with a Type II PCMCIA card slot.

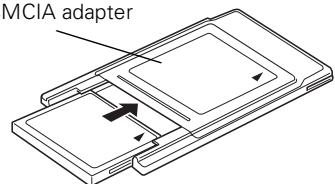
If you're using a Macintosh, you must enable the PC Exchange extension software to access files on ATA-compatible CompactFlash cards. See your Macintosh documentation for more information.

### NOTE

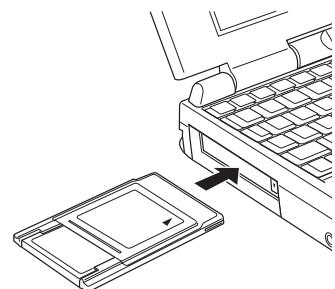
If you don't have a PCMCIA adapter, you can still transfer pictures to your computer using the serial cable (see page 12) or USB adapter (for USB cards only; see page 8).

Follow these steps to transfer pictures with a PCMCIA adapter:

1. Remove the CompactFlash card from your camera, as described on page 13.
2. Insert the card all the way into the adapter.



3. Insert the adapter with the CompactFlash card into your computer's Type II PCMCIA slot.
4. Once the adapter and card are installed in your computer's PCMCIA slot, you can transfer photos by simply copying them to your hard drive.



The image files are stored in the **Photo650** folder on the card.

- In Windows, use **My Computer** or the Windows Explorer to drag and drop image files to your hard drive. See your Windows documentation for instructions.
- On a Macintosh, use the **Finder** to drag and drop image files to your desktop or hard drive. See your Macintosh documentation for instructions.

### NOTE

If you can't access a card in your notebook computer, contact the computer manufacturer. Also try the troubleshooting procedures in the *User's Guide*.

## Maintenance

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Your EPSON PhotoPC 650 requires only basic care, as described below.

### Cleaning the Camera

- Use a clean, dry cloth to wipe the camera free of dust.
- Don't use harsh or abrasive cleaners. Don't use liquid or aerosol cleaners.
- To clean the lens, first blow off any loose dust or dirt. Then breathe on the lens and wipe off all moisture with a soft, lint-free cloth or lens cleaning tissue. To avoid scratching the lens, don't press too hard.
- If necessary, clean the battery contacts with a dry cloth.
- If the LCD monitor gets fingerprints or smudges on it, use a soft, damp cloth to lightly wipe the monitor.

### Storing the Camera

- Keep the lens covered (power turned off) and store the camera in a carrying case or bag when you're not using it.
- When the camera is not used for long periods of time, remove the batteries and store them at a low temperature in a dry location. This prevents camera damage from battery leaks or corrosion.

Do not store the camera in the following locations:

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

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## Related Documentation

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