

User's Guide

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Introduction

	ur new Epson® PhotoPC® L-410 is a compact digital camera that lets you capture all the special moment your life and print beautiful photos without a computer. Its features include:
-	
L	4.0 megapixel resolution, for clear, beautiful photos
	3x optical zoom and 3x digital zoom
	Continuous shooting mode that lets you take up to three photos per second
	Direct printing to supported Epson Stylus® Photo and PictureMate™ printers
_	PRINT Image Framer® for adding fun frames to your photos—without a computer
	PRINT Image Matching [®] II technology, so you can get the best possible prints

Safety Instructions

Read all of these instructions before using the camera, and keep this guide handy for later reference. Follow all warnings and instructions marked on the camera and the options.

Warnings, Cautions, and Notes



Warnings must be followed carefully to avoid bodily injury.



Cautions must be observed to avoid damage to your equipment.

Notes contain important information and useful tips on the operation of your product.

Using the camera

- Do not expose the camera to severe impact; doing so may cause malfunctions, especially while the camera is operating.
- ☐ Follow all warnings and instructions marked on this product.
- Do not insert objects into the slots or openings on this product.
- Do not touch the components inside this product unless instructed to do so in the user documentation. Never force this product's components into place. Although this product is designed to be sturdy, rough handling can damage it.

	Never spill liquid onto this product.
	If this product emits unusual noises, odors, or smoke, cancel the current operation and turn it off immediately. Remove the batteries and disconnect the AC adapter from the product, then unplug the AC adapter from the power outlet.
	To prevent fire or electric shock, do not cover this product with a blanket or other covering that may give off a static electric shock.
	To prevent fire or electric shock, do not expose this product or its options to rain or moisture.
	To prevent fire or explosion, do not use this product where flammable or volatile gas is stored.
	Do not use this product outdoors during a thunderstorm.
	Do not use this product after moving it between extreme temperatures, which may cause condensation to form on electronic parts.
	Use only the recommended AC adapter (B867062) for this product.
Us	ing the battery
	If battery acid gets into your eyes or on your skin, immediately rinse the affected area thoroughly with water and seek medical treatment. If a battery is swallowed, seek medical treatment immediately.
	Use only AA-size batteries or a CR-V3 type battery for the camera according to the directions in the user documentation.
	Do not use the battery that comes with this product for other devices.
	To protect against short-circuiting, do not remove the outside sleeve of the battery.

Do not handle the battery with wet hands or use it near water.
Do not expose the battery to water or high humidity.
Do not drop, puncture, disassemble, mutilate, or short-circuit the battery.
Do not place the battery near or into fire or water.
Do not use a battery that is leaking or damaged in any way.
Keep the battery away from heat sources.
Do not insert objects into any openings in the battery as they may touch dangerous voltage points or short-circuit components.
Prevent the battery from coming into contact with metal objects that could short-circuit it, such as coins or keys.
Do not use the battery if its terminals are soiled.
Do not insert the battery into power outlets or other power sources such as car cigarette lighter sockets.
Do not solder wires or terminals directly to the battery.
Do not touch the battery terminals.
Keep the battery away from open flame.
If overheating, discoloration, or distortion occur, remove the battery from this product and do not use it.
When using a rechargable battery, recharge the battery after discharging it completely.

Storing the battery

- ☐ When not using this product for a long period, remove the battery and store it separately.
- ☐ Do not store the battery where the temperature or humidity is very high.
- Store the battery out of children's reach.

Disposing of the battery

Before disposing of the battery, make sure you discharge it completely.



Warning:

- Be sure to completely cover the ends of the battery with tape to prevent combustion or explosion when disposing of it.
- Do not dispose of the battery as ordinary refuse. Instead, dispose of it in a collection or recycle box in accordance with local laws.

Using a memory card

- Only memory cards designed for the product's specifications can be used.
- The methods for using memory cards vary according to card type. Be sure to refer to the documentation included with your memory card for details.
- ☐ Turn the camera off before installing or removing the memory card.

Using the LCD monitor

The LCD monitor on this product may contain a few small bright or dark spots. These are normal and do not mean that your LCD monitor is damaged in any way. If the LCD monitor on this product is damaged, consult your dealer. If the liquid crystal solution contained in the LCD monitor on this product leaks out and gets onto your hands, wash them thoroughly with soap and water. If it gets into your eyes, flush them immediately with water. If discomfort or vision problems remain after a thorough flushing, see a doctor immediately. Use only a soft, dry cloth to clean the display. Do not use liquid or chemical cleaners. Storing, maintaining, or transporting the camera Do not store this product outdoors, near water, or in a location subject to high temperature or humidity, rapid changes in temperature or humidity, direct sunlight, or strong light sources. Unplug this product from the power outlet before cleaning it. Use a damp cloth for cleaning and do not use liquid or aerosol cleaners. Remove the batteries and unplug this product and refer servicing to qualified service personnel under

the following conditions: The power cord or plug is damaged; liquid has entered this product or its options: this product or its options have been dropped or the case is damaged; this product or its options

do not operate normally or exhibit a distinct change in performance.

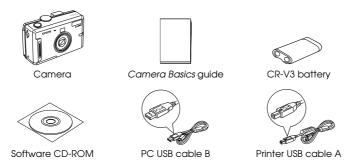
Chapter 1

Getting Started

This chapter identifies the items included with your camera, describes the parts of the camera, and tells you how to set it up.

Unpacking Your Camera

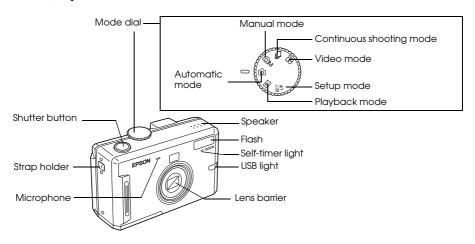
Make sure that all of the items shown below were included in the box with your camera.



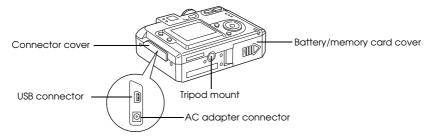
Camera Parts and Their Function

See "Camera buttons" on page 15 for more information.

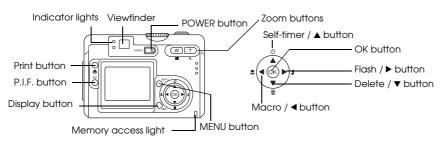
Front/top view



Bottom/rear view



Back view



Camera buttons

Name	Function	
Mode dial	Switch camera modes by turning this dial.	
Shutter button	Take a photo.	
Print button	Print photos using the direct print feature.	
P.I.F. button	Print with frames or make P.I.F. settings.	
POWER button	Turn the camera on or off.	
w Zoom buttons	Press the ${\bf W}$ button to zoom out (wide angle). Press the ${\bf T}$ button to zoom in (telephoto).	
MENU button	Display or cancel the menu (not available in automatic mode).	
▲ 🖔 button	Select menu items or set the self-timer when you are taking pictures (automatic or manual mode).	
▼ m button	Select menu items or delete the selected photo in playback mode.	
▶ ∮ button	Select menu items or set the flash when you are taking pictures (automatic or manual mode).	
◄ ⊌ button	Select menu items or select macro mode when you are taking pictures (automatic or manual mode).	

Name	Function
OK button	Confirm the currently selected setting or menu item.
DISP button	Turn the LCD screen and settings display on or off.

Camera lights

Name	Function	
USB light	Flashes blue when the camera is connected to a computer or printer	
Two Indicator lights	Green light (upper) is on when the focus is locked. It flashes when: • the focus is not locked • the camera is in power save mode • shooting a video • a photo is being processed • a "shake warning" is detected Red light (lower) flashes when: • battery power is low • the camera cannot determine the exposure setting • the memory card is full	
Self-timer light	Flashes red when taking a photo with the self-timer	
Memory access light	Turns orange when accessing a memory card or computer.	

Installing the Battery

You can use either a CR-V3 battery, like the one included with the camera, or two AA batteries.

1. To open the battery/memory card cover, slide it to the right until it pops up.



2. Insert the battery into the compartment, positioning the + and – ends as shown on the inside of the battery/memory card cover.





Two AA-type batteries

3. To close the battery/memory card cover, press it down, then slide it back into place.





Warning:

Do not carry loose batteries in your pockets.

Battery life

As the battery loses power, the icon that appears when you turn on the camera changes from \blacksquare to \square . When \square is flashing, battery power is low and you can no longer take photos. When the red indicator lamp flashes and the camera automatically shuts off, you need to replace the battery.

Installing and Removing Memory Cards

You can take pictures and save them in the camera without a memory card. However, you can store more pictures when you use a memory card. Once a card is inserted, all the photos you take are saved on the card, not in the camera, and you can only view the photos on the card.

You can use either of the following types of cards:

- □ SD card (Secure Digital®) up to 512 MB
- MM card (Multimedia,[®] MMC V 2.1 or later) up to 512 MB (Hitachi[®] and SanDisk[®] MM cards are recommended)

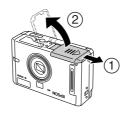


Caution:

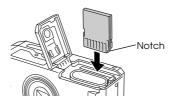
- Avoid using or storing memory cards in direct sunlight, or in places that are extremely hot, humid, or dusty.
- ☐ Make sure the camera is turned off before installing or removing a memory card.
- Make sure you insert memory cards in the correct orientation. Otherwise, the memory card and the camera may be damaged.

To install a memory card:

- 1. Make sure the camera is turned off.
- 1. To open the battery/memory card cover, slide it to the right until it pops up.



2. Position the card as shown and slide it all the way into the slot:

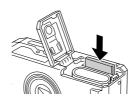


3. To close the battery/memory card cover, press it down, then slide it back into place.



To remove a memory card:

- 1. Make sure the camera is turned off.
- 2. Open the battery/memory card cover.
- 3. Push the memory card to release it. The card pops out.



4. Pull out the card and close the cover.

Note:

You can protect the data in the memory card by sliding the lock lever on the side of the card. This prevents you from deleting or storing additional photos on the card.

Turning Your Camera On and Off

To turn on the camera, press the **POWER** button. The lens cover opens and the lens extends.

To turn off the camera, press the **POWER** button. The lens retracts and the lens cover closes.



The LCD screen may turn off to save battery power. Press any button to turn the screen back on. If the camera is idle for more than three minutes, the power shuts off. Press the **POWER** button to turn it back on.

You can change the power save timing if you want. See "Adjusting Camera Settings" on page 41 for more information.

Making the Initial Settings

When you turn on the camera the first time, you need to select your language and set the date and time.

- Select the language you want to use with the ▲ ▼ ◀ ▶ buttons, then press the OK button.
 The Date/Time screen is displayed. This allows you to set the time and change the format from a 24-hour clock to a 12-hour clock.
- 2. Press the ▲ ▼ buttons to change the value of the selected item.
- 3. After you finish making settings, select a different item by pressing the ◀▶ buttons.
- 4. Repeat steps 2 and 3 until you finish making the date and time settings, then press the **OK** button.

Note:

You can change these and other settings later from the Setup Menu. For details, see "Adjusting Camera Settings" on page 41.

Chapter 2

Taking Photos

Your camera has several modes for taking pictures. Turn the dial on top of the camera to choose the mode you want to use.

Automatic mode

Camera settings are automatically adjusted to give you the best shot. All you have to do is press the shutter button.

Manual mode

You can adjust a variety of camera settings, including resolution, exposure compensation, sensitivity, white balance, and more.

☐ Continuous shooting mode

You can capture a series of shots, up to 3 photos per second. (For details, see "Continuous Shooting" on page 35.)

□ Video mode

You can record videos with sound. (For details, see "Recording Videos" on page 39).

Taking Photos Using the LCD Screen

You can take photos while viewing the subject on the LCD screen in either automatic or manual modes. (For instructions on taking pictures using just the viewfinder, which saves power, see "Taking Photos Using the Viewfinder Only" on page 35.)

- Turn the Mode dial to automatic or M manual mode.
- 2. Center your subject in the middle of the square focus frame on the screen.
- 3. Press and hold the shutter button halfway down. The focus frame turns green and the focus is set. If you want to reframe your picture, move the camera until the photo you want appears on the screen.
- Press the shutter button all the way down. The camera beeps as it captures the image.
 If you want to turn off or change the beep sound, see "Adjusting Camera Settings" on page 41.

Note:

The LCD screen may turn off to save battery power after you take a picture. Press any button or turn the Mode dial to turn the screen back on.

Zooming In and Out

For most photos you must stand at least 20 inches (50 cm) away from your subject. (For close-up shooting, you can use the macro setting; see "Taking Close-ups With Macro Mode" on page 28.) You can use both optical and digital zoom to capture a closer view of your subject.

Optical zoom

- ☐ To zoom in on your subject, press the ④ **T** (telephoto) button.
- ☐ To zoom out, press the ☐ W (wide-angle) button.

Digital zoom

The digital zoom feature lets you move in even closer to your subject. First, you need to use Setup Menu 1 to enable digital zoom. For instructions, see "Adjusting Camera Settings" on page 41.

- 1. To use digital zoom, press and hold the a T button to maximize the optical zoom.
- 2. Release the button, then press it again. The digital zoom indicator appears on the right side of the zoom bar at the bottom of the screen, and the zoom increases to 2×.
- 3. Repeat step 2 to increase to 3×. The digital zoom indicator moves further right on the zoom bar.
- 4. To return to optical zoom mode, press the **W** button.

Digital zoom can reduce the resolution of your photos, as indicated in the following table:

Quality (Resolution) setting	Resolution without digital zoom	Resolution with 2× Digital zoom	Resolution with 3× Digital zoom
№ N N640	640 × 480	640 × 480	640 × 480
₩N N1600	1600 × 1200	1280 × 960	800 × 600
热® N2304	2304 × 1728	1280 × 960	800 × 600

Controlling the Flash

You can change the flash setting by pressing the \blacktriangleright $\mbox{\congruenterflash}$ Flash button. The flash mode changes each time you press the $\mbox{\congruenterflash}$ Flash button.

aŞ	Auto-flash (default setting)	The camera detects the brightness automatically and sets off the flash if necessary. In a dark setting, the flash is used automatically.
8	Flash off	Turns off the flash even in dark settings.
	Auto red-eye reduction	Use this setting when photographing people with the flash at night or indoors. The flash will go off once and will go off again when the photo is taken. This will help to reduce the red-eye effect.
\$	Fill-in flash (manual mode only)	The flash will go off for every shot. Use this setting when the background is bright or when you are shooting against the sun.
s∯	Slow synchro (manual mode only)	The flash is combined with a slow shutter speed. This allows you to take an action photo with a blurred background.

Flash range

The flash range varies depending on the sensitivity setting. For automatic shooting, the flash range is 1.6 to 12 feet (wide-angle) or 1.6 to 6.9 feet (telephoto).

ISO sensitivity	Wide angle	Telephoto	
Automatic	1.6 to 12 feet (0.5 to 3.7 m)	1.6 to 6.9 feet (0.5 to 2.1 m)	
100	2.3 to 8.5 feet (0.7 to 2.6 m)	1.6 to 4.9 feet (0.5 to 1.5 m)	
200	3.3 to 12.1 feet (1.0 to 3.7 m)	1.9 to 6.9 feet (0.6 to 2.1 m)	
400	4.6 to 17.1 feet (1.4 to 5.2 m)	2.6 to 9.9 feet (0.8 to 3.0 m)	

For information about ISO sensitivity, see "Setting Light Sensitivity" on page 37.

Taking Close-ups With Macro Mode

The macro mode allows you to focus on subjects between 4.3 and 19.6 inches (11 and 50 cm) away from the camera. Use of the flash is not recommended for macro close-ups, so make sure you have adequate lighting. For best results, use a tripod when shooting in the macro mode.

- 1. Turn the Mode dial to 🖾 automatic or 🖾 M manual mode.
- 2. Press the ▶ ◀ button to switch to the macro mode.
- 3. Center your subject in the middle of the square focus frame on the screen.

- 4. Press and hold the shutter button halfway down. The focus frame turns green and the focus is set. If you want to reframe your picture, move the camera until the photo you want appears on the screen.
- 5. Press the shutter button all the way down. The camera beeps as it captures the image.

Taking Pictures With the Self-Timer

You can use the self-timer to create a delay between the time you press the shutter and the actual image capture. This allows you to take a picture of yourself.

- 1. Secure the camera on a flat surface or on a tripod.
- 2. Turn the Mode dial to automatic or M manual mode.
- 3. Press the \(\Delta \) button. The \(\Delta \) self-timer icon is displayed on the LCD screen.
- Center the image and press the shutter button all the way down. The countdown starts, and 10 seconds later the shutter releases automatically.

Note:

In manual or continuous shooting mode, you can switch the timer from 10 seconds to 2 seconds. In step 3 above, press the $\mathfrak O$ self-timer button twice to switch the timer to 2 seconds.

Selecting the Scene Mode

In addition to the normal mode for taking pictures, two special scene modes are pre-programmed in the camera to give you the best image capture settings for portraits or landscapes:

□ Landscape mode

The flash is deactivated so landscapes are captured more clearly. In low light, the shutter speed is slower so you can take night scenes.

Portrait mode

The depth of field is reduced to 3 to 10 feet (1 to 3 m). When you use the fill-in flash in dark settings, the slow synchro shutter feature is enabled, allowing you to take shots with a brighter background.

□ Normal mode

This mode is best for most shooting. The flash works automatically based on the available light on the subject. The shutter speed is also selected to minimize blurring.

You can use the self-timer, zoom, and other settings with both scene modes, but you can't use the Macro setting.

Note:

The use of a tripod is recommended to prevent blurring in both Landscape and Portrait modes.

To select the Scene Mode, you need to use the manual photography mode and the Photography Menu as described below

- 1. Turn the Mode dial to M manual mode.
- 2. Press the **MENU** button. The Photography Menu is displayed.
- 3. Select **Scene Mode** by using the ▲ ▼ buttons, then press the ▶ button.
- 4. Select the desired scene mode by using the ▲ ▼ buttons, then press the **OK** button.
- 5. Press the **MENU** button to exit the menu.

Selecting the Resolution and Compression

You can adjust the quality setting to increase or decrease the resolution and compression of your photos. Decreasing the resolution makes your image files smaller and allows you to take more pictures. However, the quality will be reduced when you print enlargements.

In automatic mode, resolution is set to $\& \mathbb{N}$ (2304 × 1728 pixels with normal compression). If you want to change the resolution, you need to switch to manual mode and use the Photography Menu as described below.

- 1. Turn the Mode dial to M manual mode, then press the **MENU** button to display the Photography Menu.
- 2. Select **Quality** by using the ▲ ▼ buttons, then press the **OK** button.
- 3. Select the desired quality by using the ▲ ▼ buttons, then press the **OK** button.
- 4. Press the **MENU** button to exit the menu.

The quality setting determines umber of photos you can take, as shown in the table below.

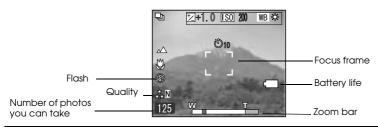
Note:

The total number of photos varies according to the quality, compression, amount of memory left on the memory card, and the shooting conditions.

Quality (Number of pixels and compression)	With 16 MB SD memory card	With 128 MB SD memory card	Internal memory only (default)	Internal memory (after deleting all the frames)
	6	62	3	7
&№ 2304 2304 × 1728 normal	13	125	6	14
☆€ 1600 1600 × 1200 fine	13	129	6	15
☆№ 1600 1600 × 1200 normal	28	251	13	30
☆ 🖟 640 640 × 480 fine	84	710	38	88
± № 640 640 × 480 normal	148	1303	71	163

Reading the LCD Screen Icons

You can confirm the status of the camera settings by the icons displayed on the LCD screen. Press the **DISP** button to turn the icons on or off.



Self-timer	७₂ (2 seconds), ७₁₀ (10 seconds)	
Focus frame	Place your subject within the focus frame. When you press the shutter button halfway, the focus frame turns green. If the focus cannot be locked, the focus frame turns red. Release the shutter button and press it again.	
Battery life		
Zoom bar	The digital zoom indicator appears when digital zoom is enabled.	
Scene mode	Normal mode, ∆ Landscape mode, ▲ Portrait mode	

Exposure compensation	② (+2.0 to -2.0)
Sensitivity	(Auto, 100, 200, 400)
White balance	> (Auto, ☆ Daylight, ○ Cloudy, 佘 Incandescent, 宗 Fluorescent, 佘 Mercury)
Quality	慕目 F2304,☆目 F1600,☆目 F640,為N N2304,☆N N1600,☆N N640
Macro mode	■ Macro
Flash	$_{\rm A}\!$
Shooting mode	및 Continuous shooting mode, 🏻 Video mode
Number of the photos that can be taken in the current mode	125 (for example)
Displayed if you shake the camera when taking a photo	Camera shake warning

Taking Photos Using the Viewfinder Only

To save battery power, you can take photos using the viewfinder only, without the LCD screen.

- Turn the Mode dial to M manual mode.
- 2. Press the **DISP** button twice to turn off the LCD screen.
- 3. Center the subject in the middle of the viewfinder.
- 4. Press and hold the shutter button halfway down. The green indicator light turns on and the focus is set.
- 5. Press the shutter button all the way to capture the photo.
 The photo is stored in the memory card while the memory access light is on. After the light turns off, the camera is ready to use again.

Note:

You cannot take photos using the viewfinder only when using the macro setting or self-timer.

Continuous Shooting

In the Continuous Shooting mode, you can capture a series of photos by holding the shutter button down. You can take three photos per second at maximum speed. Use of the flash is not recommended with continuous shooting, so make sure you have adequate lighting.

- 1. Turn the Mode dial to ☐ continuous shooting mode.
- 2. Press the **MENU** button and adjust settings as necessary.

Press the shutter button halfway to set the focus, then press it all the way down. While the shutter button remains fully pressed, photos will be taken continuously.

Note:

In order to shoot at the maximum speed of three photos per second, you must use an SD memory card with a recording/transfer speed of 10MB/second.

Setting White Balance

The camera senses the light source and and automatically adjusts the white balance to ensure color accuracy in any lighting situation.

You can adjust the white balance manually to achieve truer colors under the following lighting conditions: daylight, cloudy, incandescent, fluorescent, and mercury.

- 1. Turn the Mode dial to M manual mode.
- 2. Press the **MENU** button. The Photography Menu is displayed.
- 3. Select White Bal by using the ▲ ▼ buttons, then press the ▶ button.
- Select the desired setting from Daylight, Cloudy, Incandescent, Fluorescent, and Mercury by using the ▲ ▼ buttons, then press the OK button.
- 5. Press the **MENU** button to exit the menu.

Setting Light Sensitivity

You can use the camera's high sensitivity settings to take pictures indoors or in low-light situations without a flash. You can also capture fast-moving subjects with higher sensitivity settings.

The camera's default setting is Auto, which is best for most picture taking. Set the light sensitivity manually in low-light conditions or when you expect blurring problems from camera motion. Use of a tripod is recommended with high sensitivity settings.

- 2. Press the **MENU** button. The Photography Menu is displayed.
- 3. Select **Sensitivity** by using the ▲ ▼ buttons, then press the ▶ button.
- Select the desired sensitivity from Auto, 100, 200, and 400 by using the ▲ ▼ buttons, then press the OK button
- 5. Press the **MENU** button to exit the menu.

Setting Exposure Compensation

You can adjust the exposure to help control how much light falls on the camera's CCD (light sensor). This influences the brightness of the entire image.

Your camera normally adjusts the exposure automatically. However, you may want to increase the exposure manually if you're taking a picture against the sun or when you have any very bright background. Similarly, you may want to decrease the exposure setting if you're taking a picture against a dark background.

- 2. Press the **MENU** button. The Photography Menu is displayed.
- Select Exp Comp by using the ▲ ▼ buttons, then press the ► button.
 The exposure adjustment range is from -2.0 to +2.0 Exposure Value (EV). There are 8 steps of 0.5 EV each. You can confirm the setting on the LCD screen.
- 4. Select the adjustment value by using the ▲ ▼ buttons, then press the **OK** button.
- 5. Press the **MENU** button to exit the menu.

Recording Videos

You can record videos with sound using the video mode. The length of the video is limited only by the amount of storage available in your camera or memory card.

- Turn the Mode dial to video mode.
- 2. Press the **MENU** button. The Movie menu is displayed.
- 3. Press the ▶ button.
- 4. Select the desired resolution by using the ▲ ▼ buttons, then press the **OK** button.
- 5. Press the **MENU** button to exit the menu.
- Press the shutter button all the way down to start recording.
- 7. Press the shutter button again to stop recording.

Maximum available video shooting time

Quality (pixel resolution)	With 256MB SD memory card	Internal memory (with frames deleted)
640 × 480 (default)	5 minutes, 30 seconds*	39 seconds
320 × 240	13 minutes, 22 seconds*	46 seconds
160 × 120	29 minutes, 40 seconds*	2 minutes, 13 seconds

^{*} Values may differ for SD memory cards from various manufacturers.

Enabling the Quick View and Sound Memo Features

The Quick View feature displays your picture for a few seconds after you take it. This lets you verify that you have captured the shot you want. With the Sound Memo feature enabled, you can also record a message up to 30 seconds long for each picture.

To turn on the Quick View and Sound Memo features:

- 1 Turn the Mode dial to **SETUP** mode
- Press the ▼ button to select Qk View/Sd Memo, then press the ▶ button.
- 3. Press the ▼ button to set the Quick View feature **ON**.
- 4. Press the ▼ button to select **SoundMemo ON**, then press the **OK** button to save the settings.

Recording sound memos

You can record a sound memo up to 30 seconds long while a photo is displayed in quick view. First you need to set the quick photo review feature to **Sound Memo ON**.

- 1. While the photo is displayed on the LCD screen, press the **OK** button to start recording.
- 2. When you are finished recording, press the **OK** button to stop recording.

Note:

- You can play sound memos in the playback mode. When you play back a photo that has a sound memo, the sound in the sound in the sound.
- You can also record a sound memo while viewing a photo in Playback mode. See "Recording and Playing Sound Memos" on page 47 for more information.

Adjusting Camera Settings

In the **SETUP** mode, you can change settings such as Quick View, Sound Memo, and power save. Three Setup menus are available, two for general features, and one for adjusting camera "beep" sounds.

- Turn the Mode dial to SETUP mode.
- 2. Select the menu that has the items you want to change by using the ◀▶ buttons.
- 3. Select the desired setting item by using the ▲ ▼ ◀ ▶ buttons, then press the **OK** button.
- 4. Change the setting value by using the ▲ ▼ buttons, then press the **OK** button. The setting is changed.

Note:

Pressing the **MENU** button returns the display to the previous screen.

SETUP mode settings

Setup Menu 1

Setting items	Description	Default
Qk View/Sd Memo	Enable the quick view and sound memo features. When Qk View is ON, your photo is displayed for 3 seconds after it is captured. When Sd Memo is ON, you can also record a sound memo while the image is displayed.	OFF
LCD Brightness	Set the brightness level of the LCD screen.	_
Digital Zoom	Enable digital zoom.	OFF
Power Save	Set the time until the camera enters the power save mode.	3 min.
Startup Screen	Select an image to display when you first turn on the camera.	EPSON Logo

Setup Menu 2

Setting items	Description	Default
Format	Format the camera's memory or the memory card.	_
Reset All	Reset all the camera's settings to their defaults.	_
Date/Time	Set the date and time.	_
File No. Reset	Reset the sequence of the image file numbers to 0001 when replacing or formatting the memory card.	OFF
Language	Set the displayed language.	English

Sound Menu

Setting items	Description	Default
Sound	Enable or disable the "beep" sound whenever you press a button. Three different sounds (at minimum or maximum volume) are available for each setting, as listed below.	ON
Operation Sound	Select the sound when the buttons are pressed.	Beep Min
Shutter Sound	Select the shutter sound.	
Cont Shoot Sound	Select the sound during continuous shooting.	
Focus Lock Sound	Select the sound when the focus is locked.	
Self-Timer Sound	Select the sound while the self-timer is set.	

Chapter 3

Viewing and Managing Your Photos

The LCD screen lets you play back your pictures individually or as a slide show. You can also play and record sound memos, view videos, delete photos, and copy photos from the camera to a memory card or to your computer.

Viewing Photos

You can view your photos on the LCD screen and zoom in to display more detail or zoom out to display 6 photos at once.

- 1. Turn the Mode dial to playback mode. The last photo you took is displayed.
 - □ To view the next photo, press the button.
 - ☐ To scroll through the photos, hold down the ▶ button.
 - ☐ To zoom in on a photo, press the ④ **T** button. To pan over to another part of the image, press the ▲ ▼ ◀ ▶ buttons. Press the **W** button to zoom out
- 2. To view 6 photos at once, press the **W** button.
 - □ To select a photo, press the ▲ ▼ ◀ ▶ buttons.
 - ☐ To view the selected photo with the full screen, press the ④ **T** button.

Viewing a slide show of your photos

You can use the playback menu to view a continuous slide show of your photos.

- Turn the Mode dial to
 □ playback mode.
- 2. Press the **MENU** button. Playback Menu 1 is displayed.
- 3. Select **Slide Show** by using the ▲ ▼ buttons, then press the **OK** button. The slide show starts.
 - To pause the slide show, press the **OK** button. Press the **OK** button again to resume.
 - ☐ To skip to the next photo, press the ▶ button.
 - □ To stop the slide show, press the button.

Note:

Videos will automatically play in slide show mode, but the sound volume can't be adjusted.

Playing Videos

- 1. Turn the Mode dial to **□** playback mode.
- 2. Select the video you want to play. (The icon appears on video images.)
- 3. Press the **OK** button. The video starts playing.
 - To pause the video, press the **OK** button. To restart the video, press the **OK** button again.
 - ☐ To adjust the volume through 4 levels, press the ▲ ▼ buttons.
 - ☐ To stop the video, press the ◀ button.

Recording and Playing Sound Memos

You can record and play back sound memos for your photos while you view them on the LCD screen.

- Turn the Mode dial to playback mode.
- 2. Press the **MENU** button. Playback Menu 1 is displayed.
- 3. Select **Sound Memo** by using the ▲ ▼ buttons, then press the ▶ button.
- 4. Press the **OK** button and then start recording.
- When you are finished recording, press the **OK** button. You can play or delete the sound memo or record a new memo
- 6. Press the **MENU** button twice to exit the menu.

When you play back a photo that includes a sound memo, the \mathbb{C} icon appears on the screen. Press the \mathbf{OK} button to play the sound.

Note:

You must have at least one photo saved to record a sound memo.

Viewing Picture Information

You can display information about a photo, such as the date and time it was taken, its quality (resolution), and so on.

- 1. Turn the Mode dial to **□** playback mode.
- 2. Display the photo on the LCD screen by using the ◀▶ buttons.
- 3. Press the **DISP** button. You see the following information:



Selecting Photos for Printing

You can use the Digital Print Order Format (DPOF) standard to select photos for printing. This format allows you to record information on the memory card including which images to print and how many copies you want for each photo.

- Turn the Mode dial to
 □ playback mode.
- 2. Press the **MENU** button, then press the ▶ button to display Playback Menu 2.
- 3. Press the ▼ button to select Make a Print Order, then press the OK button.
- For each photo that you want to print, select the photo, then press the ▲ button to select the number of copies.

Note:

You can select up to 99 copies for 999 photos. However, the maximum copy quantity is 9,999 pages.

- Press the **OK** button. The DPOF information is saved and the screen returns to Playback Menu 2.
- 6. Press the **MENU** button to exit the menu.

Note:

You can also select images for printing using the 🖨 button. For instsructions, see Chapter 5, "Using Direct Print."

Deleting Photos

You can easily delete a photo displayed on the LCD screen. Playback Menu 1 also lets you delete a series of images or all images in the camera or on a memory card.



Caution:

Once a photo has been deleted, it can't be restored. Any photos you want to keep should be transfered to your computer before you delete them from the camera.

Deleting photos individually

- Turn the Mode dial to
 □ playback mode.
 To delete the currently displayed photo, press the
 ▼
 m button. Select OK by using the
 ▼ buttons, then press the OK button. The photo is deleted.
- 2. To delete a series of photos, press the **MENU** button. Playback Menu 1 is displayed.
- Select Delete Individual Images by using the ▲ ▼ buttons, then press the ▶ button.
- 4. Select the photo to delete by using the ◀▶ buttons.
- Select OK by using the ▲ ▼ buttons, then press the OK button. The photo is deleted.
- 6. If necessary, repeat steps 4 and 5 to delete another photo.
- 7. Press the **MENU** button to exit the menu.

Deleting all photos

You can delete all photos stored in the camera.

- Turn the Mode dial to
 □ playback mode.
- Press the MENU button. Playback Menu 1 is displayed.
- 3. Select **Delete All Images** by using the ▲ ▼ buttons, then press the **OK** button.
- 4. Select **OK** by using the ▲ ▼ buttons, then press the **OK** button.
- 5. Press the **MENU** button to exit the menu.

Deleting a group of continuous images

You can delete a group of photos taken in continuous shooting mode.

- Turn the Mode dial to playback mode, and display the first continuous image you want to delete.
- 2. Press the **MENU** button. Playback Menu 1 is displayed.
- Select Delete a group of images by using the ▲ ▼ buttons, then press the OK button.
- Confirm the images one by one by using the

 buttons. If you do not want to delete an image, erase
 the icon by pressing the

 vote buttons.
- 5. Press the **OK** button.
- 6. Select **OK** by using the ▲ ▼ buttons, then press the **OK** button.
- 7. Press the **MENU** button to exit the menu.

Copying Photos From the Camera to a Memory Card

You can copy photos from the camera's internal memory to a memory card. First, make sure a memory card is inserted. (See "Installing and Removing Memory Cards" on page 19.)

- 1. Turn the Mode dial to □ playback mode.
- 2. Press the **MENU** button. Playback Menu 1 is displayed.
- 3. Select **Copy Images** by using the ▲ ▼ buttons, then press the **OK** button.
- 4. Select **OK** by using the ▲ ▼ buttons, then press the **OK** button.
- Press the MENU button to exit the menu.

Copying Photos to Your Computer

You can transfer photos to your computer using the PC cable included with the camera. You can also remove the memory card from the camera and copy photos using a card reader.



Caution:

Make sure the camera's power is turned off before you connect it to your computer.

Note:

- ☐ You can conserve battery power by using the optional AC adapter while the camera is connected to your computer. See "Using the AC adapter" on page 86 for instructions.
- ☐ If your computer uses Windows® 98SE, you need to install driver software before you connect the camera. For instructions on installing the software, see the Camera Basics guide.

To transfer photos using the PC cable:

- Make sure the camera is turned off.
- 2. Locate the PC cable that came with the camera. The cable has the letter **B** on the small end
- 3. Connect the large end of the cable to any available USB port on your computer.
- Open the connector cover on the side of the camera and connect the small end of the cable to the camera.





- 5. Turn on the camera. The blue USB light on the camera flashes.
- Select the EPSON_DSC drive on your computer. In Windows, you may have to use My Computer to select the drive.
- 7. Copy the photos from the DCIM folder to your computer.
- Turn off the camera and disconnect the cable.

Note:

If you copy PIF images to your computer, the link between the photos and the frames will be broken. PIF frames can only be printed directly from the camera.

Chapter 4

Using PRINT Image Framer (P.I.F.)

PRINT Image Framer (P.I.F.) lets you combine your photos with fun frames to create original greeting cards and keepsakes. Frames are already stored in your camera, and additional frames are available on the CD that came with the camera. You can use the PRINT Image Framer Tool to copy the frames from the CD to your camera.

You can also modify the frames or create original frames using PIF Designer. First, you need to install PIF Designer, PRINT Image Framer Tool, and the P.I.F. frames on your computer. See your *Camera Basics* guide for instructions.

Taking Photos With Frames

You can use PRINT Image Framer to take pictures with a variety of frames for holidays and special occasions. You can then use the direct printing process to print your framed pictures on supported Epson printers. For instructions on printing from the camera, see "Using Direct Print" on page 57.

In P.I.F. mode, you will use frames that you have previously loaded into the camera. You can select the frame before you take the picture, or add it to a picture saved in your camera before you print.

To take a picture with a frame:

- 1. Turn the Mode dial to automatic or M manual mode.
- Press the P.I.F. button. The first frame stored in the camera is displayed.
 If you want to select a frame stored on the memory card, press the button after pressing the P.I.F. button.
- 3. Select the desired frame by using the ▲ ▼ buttons, then press the **OK** button.
- 4. The selected frame is displayed on the LCD monitor. You can now take the picture and center it in the frame. (See Chapter 2, "Taking Photos," for instructions.)

Adding or Changing Frames

You can change the frame after you take a photo in P.I.F. mode. You can also add a frame to a photo that was taken without a frame.

- Turn the Mode dial to
 □ playback mode.
- Select a frame by using the ▲ ▼ buttons, then press the OK button.
 To save the photo without a frame, select No Frame, then press the OK button.

Deleting and Copying Frames

You can delete frames stored in the camera's memory or on the memory card. You can also copy frames from the camera to the memory card, or from the card to the camera.

- Press the P.I.F. button, then select either Frame on Memory Card or Frame in Camera by using the ► buttons.
- 2. Select a frame to delete by using the ▲ ▼ buttons, then press the **MENU** button.

Note:

To cancel the operation, press the 🕮 P.I.F. button.

- 3. Select **Delete** or **Copy** (to **Camera or Card**) by using the ▲ ▼ buttons, then press the **OK** button.
- To confirm your choice, select OK by using the ▲ ▼ buttons, then press the OK button. The selected frame is deleted or copied.
- 5. Press the P.I.F. button to exit PRINT Image Framer.

Chapter 5

Using Direct Print

You can print your photos directly from the camera to supported Epson printers using Epson 4×6 Premium Glossy Photo Paper. You can select various settings for including the date the photo was taken, printing with or without borders, or printing an "album" of up to four photos on one sheet of paper. You can also print photos with P.I.F. frames directly from the camera.

The Epson PhotoPC L-410 supports the printers listed below. To connect to the Epson Stylus Photo R200, use the printer cable labeled with the letter A on the small end. To connect to any of the other printers listed below, use the PC cable labeled with the letter B.

Epson Stylus Photo R200	Epson Stylus Photo R300 Epson Stylus Photo RX600 PictureMate™

You can also run maintenance programs for the Epson Stylus Photo R200 printer directly from the camera.

Note:

Future models may be added to the list of supported printers. Check the Epson web site at www.epson.com for more information.

Connecting the Camera to Your Printer

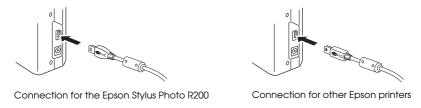
Make sure the camera is turned off before you begin. You can conserve battery power by using the optional AC adapter when you print from the camera. See "Using the AC adapter" on page 86 for instructions.

- 1. Locate the correct cable for your printer, as shown on page 57.
- 2. Connect the large end of the cable to the correct port on your printer.
 - On the Epson Stylus Photo R200, the port is labeled USB, as shown on the right.
 - ☐ On the other supported printers listed on page 57, the port is labeled **EXT I/F**.



Epson Stylus Photo R200

3. Open the connector cover on the side of the camera and connect the small end of the cable to the camera.



Printing Photos

You can print all the photos in the camera, or select the ones you want to print. Images that have been taken in P.I.F. mode must be printed using direct printing in order for the frame to show up on the print. Any other printing method will break the link between the frame and the image. For details about the P.I.F. mode, see Chapter 4, "Using PRINT Image Framer (P.I.F.)."

Printing the photo displayed on the LCD screen

Before you start, make sure your printer is set up and has ink installed. Load 4×6 inch Epson Premium Glossy Photo Paper, following the instructions that came with your printer.

- 1. Connect the camera to the printer as described in "Connecting the Camera to Your Printer" on page 58.
- 2. Turn on the printer and camera.
- 3. Turn the Mode dial to □ playback mode and use the ◀ ▶ buttons to display the photo you want to print.
- 4. Press the 🖨 button. The Print menu is displayed.
- 5. Select **Print This Image** by using the ▲ ▼ buttons, then press the ⊕ or **OK** button.
- If you want to print just one copy, go to step 7.
 If you want to print more than one copy, press the OK button and use the ▲ button to select the number of copies you want. Then press OK.
- 7. Press the ▼ button to select **Print Settings**, then press **OK**.
- Press the ▶ button to select Paper Type, then press the ▼ button to select 4 × 6in.Prem.Glossy and press OK.
 - If you want to print a photo with white borders, turn off the date, or change other settings, see "Making Print Settings" on page 64.
- Press the MENU button, then press the button. Printing starts. When printing is complete, press the OK button.

Note:

If you want to cancel printing, press the **MENU** button.

Printing all your saved photos

You can print all photos stored in the camera. Before you start, make sure your printer is set up and has ink installed. Load 4×6 inch Epson Premium Glossy Photo Paper, following the instructions that came with your printer.

- 1. Connect the camera to the printer as described in "Connecting the Camera to Your Printer" on page 58.
- 2. Turn on the printer and camera.
- 3. Turn the Mode dial to □ playback mode, then press the ⊕ button. The Print menu is displayed.
- 4. Select **Print All Images** by using the ▲ ▼ buttons, then press the **OK** button.
- 5. If you want to print more than one copy of each picture, press the **OK** button and use the ▲ button to select the number of copies you want. Then press **OK**.
 - Make sure the Paper Type is set to **4 × 6in.Prem.Glossy**. If you want to turn off the date, print a photo with white borders, or change other settings, see "Making Print Settings" on page 64.
- 6. Press the 🖨 button. Printing starts.
- 7. When printing is complete, press the **OK** button.

Note:

If you want to cancel printing, press the MENU button.

Printing selected photos

You can select multiple photos to print. Before you start, make sure your printer is set up and has ink installed. Load 4×6 inch Epson Premium Glossy Photo Paper, following the instructions that came with your printer.

1. Connect the camera to the printer as described in "Connecting the Camera to Your Printer" on page 58.

- 2. Turn on the printer and camera.
- 3. Turn the Mode dial to D playback mode, then press the D button. The Print menu is displayed.
- 4. Choose **Select Images** by using the ▲ ▼ buttons, then press the **OK** button.
- Select the photos to print by using the ◀► buttons, then select the number of copies by using the ▲▼ buttons.
- 6. After you have selected the photos, press the button.

 Make sure the Paper Type is set to 4 × 6in.Prem.Glossy. If you want to turn off the date, print a photo with white borders, or change other settings, see "Making Print Settings" on page 64.
- 7. Press the 🖨 button. Printing starts.
- 8. When printing is complete, press the **OK** button.

Note:

If you want to cancel printing, press the **MENU** button.

Album printing

You can print several photos on one sheet of 4×6 inch paper (up to 4 photos on the Epson Stylus Photo R200 or up to 3 on other printers). Before you start, make sure your printer is set up and has ink installed. Load 4×6 inch Epson Premium Glossy Photo Paper, following the instructions that came with your printer.

- 1. Connect the camera to the printer as described in "Connecting the Camera to Your Printer" on page 58.
- 2. Turn the printer and camera on.
- 3. Turn the Mode dial to ▶ playback mode, then press the ♠ button. You see the Print menu.
- 4. Choose **Select Images** by using the ▲ ▼ buttons, then press the **OK** button.
- Select the photos to print by using the ◀► buttons, then select the number of copies by using the ▲▼ buttons.
- 6. Press the **MENU** button.
- 7. Select **Print an Album** by using the ▲ ▼ buttons.
- Select the number of photos per page by using the ◀► buttons, then press the OK button.
 Make sure the Paper Type is set to 4 × 6in.Prem.Glossy. If you want to change print settings, see "Making Print Settings" on page 64.
- 9. Press the 🖨 button. Printing starts. When printing is complete, press the **OK** button.

Note:

- ☐ If you want to cancel printing, press the MENU button.
- ☐ You cannot print Frames when you select Album Printing.
- ☐ If you save DPOF information before starting to print, the DPOF information will be enabled.

Making Print Settings

Yo	u can make the following settings when printing images directly from the camera:
	Printing with or without white borders
	Printing the date on the photo (not available when you print images with Frames
_	Printing with normal or high quality
Va	ta.

Note:

You can also set the paper type to choose 4×6 inch or 10×15 centimeter paper. Make sure you change this setting to 4×6 in. Once you change it, the camera will retain this setting. 10×15 cm paper is not available in the U.S.

- Select Print Settings by using the ▲ ▼ buttons on the preview screen, and then press the OK button.
 The Print Settings screen is displayed.
- 2. Select the item to set by using the ▲ ▼ buttons, then press the OK button. The current setting is displayed.
- 3. Select the item by using the \blacktriangle \blacktriangledown buttons, then press the **OK** button.

Note:

If you need to cancel settings, press the MENU button.

Running Printer Maintenance Programs

You can use the camera to check the ink level in the Epson Stylus Photo R200 printer. You can also check the status of the print head nozzles and run maintenance programs when you connect the camera to this printer.

Note:

You can run maintenance programs from the camera only for the Epson Stylus Photo R200. For other printers, you need to run maintenance programs from your computer.

- 1. Connect the camera to the printer as described in "Connecting the Camera to Your Printer" on page 58.
- 2. Turn the printer and camera on.
- 3. Turn the Mode dial to □ playback mode, then press the ⊕ button. The Print menu is displayed.
- 4. Press the **OK** button. You see the preview screen.
- 5. Select **Maintenance** by using the ▲ ▼ buttons, then press the **OK** button.
- Select the desired item by using the ▲ ▼ buttons, then press the OK button.

Checking the ink level

- On the Maintenance screen, press the OK button to select Ink Level Check. The level of ink in the 6 cartridges is displayed on the LCD screen.
- 2. Press the **OK** button
- 3. Press the **MENU** button to return to the previous screen.

Checking the print head nozzles

If your photos have light or dark lines or incorrect color, the print head nozzles may be clogged. You can print a nozzle check pattern to check them. If the nozzle check pattern shows white lines or gaps, you can run the head cleaning program.

- 1. On the Maintenance screen, select **Nozzle Check** by using the ▲ ▼ buttons, then press the **OK** button.
- Load some plain paper in the printer, select OK by using the ▲ ▼ buttons, then press the OK button.
 The nozzle check pattern is printed.
- 3. Check the pattern.
 - ☐ If the nozzle check pattern has no white lines or gaps, select Finish by using the ▲ ▼ buttons, then press the OK button.
 - ☐ If the pattern has white lines or gaps, select **Clean** by using the ▲ ▼ buttons, then press the **OK** button. Select **OK** again to run the head cleaning program. When the cleaning cycle is finished. repeat steps 2 and 3 above to make sure the nozzles are clean.
- 4. Press the **MENU** button to return to the previous screen.

Cleaning the print head nozzles

If your photos have light or dark lines or incorrect color, the print head nozzles may be clogged. You can run the head cleaning program to unclog the nozzles so they can deliver ink properly.

- On the Maintenance screen, select **Head Cleaning** by using the ▲ ▼ buttons, then press the **OK** button.
- 2. Select **OK** by using the ▲ ▼ buttons, then press the **OK** button. Head cleaning is executed.
- 3. When the cleaning cycle is finished, load some plain paper in the printer.
- Select Nozzle Check by using the ▲ ▼ buttons, then press the OK button. The nozzle check pattern is printed.
- 5. Check the pattern.
 - ☐ If the nozzle check pattern has no white lines or gaps, select **Finish** by using the ▲ ▼ buttons, then press the **OK** button.
 - ☐ If the pattern has white lines or gaps, select **Clean** by using the ▲ ▼ buttons, then press the **OK** button. Select **OK** again to run the head cleaning program. When the cleaning cycle is finished. repeat steps 2 and 3 above to make sure the nozzles are clean.
- 6. Press the **MENU** button to return to the previous screen.

Aligning the print head

If your photos look grainy or blurry or you see misaligned vertical lines or horizontal banding, you may need to align the print head.

- On the Maintenance screen, select Print Head Alignment by using the ▲ ▼ buttons, then press the OK button.
- Load some plain paper in the printer, select OK by using the ▲ ▼ buttons, then press the OK button.
 The alignment sheet is printed.
- 3. Examine the alignment sheet and select the square without any visible bands. You may need to use a magnifying glass or loupe.
- Select the number of the best square for each pattern by using the ◀► buttons, then press the OK button.
 Note:

If several squares are printed without lines, select one and press the **OK** button. After that, repeat the print head alignment until a single pattern number lines up closest with the printed pattern.

Chapter 6

Maintenance and Troubleshooting

Maintenance

To keep your camera operating at its best, you should clean it thoroughly several times a year. Before you perform any maintenance on the camera, be sure to read the "Safety Instructions" on page 7. Then follow these guidelines.

Cleaning your camera



Caution:

Do not use volatile chemicals such as alcohol, paint thinner or benzine. They will damage the camera exterior and battery compartment.

Camera exterior

Wipe the outside of the camera with a soft dry cloth. If it is very dirty use a cloth dampened with a natural detergent. Wipe again with soft dry cloth.

Lens and the LCD monitor

To clean the lens, make sure that the camera is turned off, then blow off any loose dust or dirt or use a lens and camera cleaning brush. Breathe on the lens and wipe off all moisture with a soft dry cloth.

Clean the LCD screen with a soft dry cloth.

Battery terminals

Do not use volatile chemicals such as alcohol, paint thinner or benzine. They will damage the battery compartment.

Storing your camera

Store the camera in a cool and dry location and remove the batteries to prevent corrosion or leaks if you will not be using the camera for a long period of time.

Problems and Solutions

Camera problems

correct mode?

The camera has no power	
Cause	What to do
Is the battery installed correctly? Does it need to be replaced?	Check the battery and replace it if necessary. See "Installing the Battery" on page 17 for details.
Is the camera turned on?	The camera may have shut off automatically to save battery power. Press the POWER button to turn on the camera.
The camera does not take a photo after you press the shutter button	
Cause	What to do
Is the power switched on?	See "The camera has no power," above, and check the camera.
Is the Mode dial set to the	See Chapter 2, "Taking Photos."

Is the photo image number of	n
the LCD monitor 0?	

This means the memory card (or internal memory) is full. Transfer the photos to a computer, then delete them from the camera to free up space. See "Deleting Photos" on page 50 for details.

The camera does not react when you press any buttons

What to do

Are the illumination light and	
both of the indicator lights (red	
and green) flashing?	

Cause

Turn the power off, and then turn it on again. If the power does not turn off, remove the battery, reinstall it, and turn the power on. If the lights are still flashing, contact Epson as described in "Where to Get Help" on page 81.

The power turns off automatically

Cause	What to do
Is the power saving function turned on?	Press the POWER button to turn the camera back on.

The camera takes too long to take a photo

Cause	What to do
Did you press the shutter button completely with one push?	Press the shutter button halfway and hold it to set the focus, then press the rest of the way to take a photo. If you press the shutter button all the way, it takes time to focus and set the exposure before the shutter releases. It may take longer than when pressing the shutter button in two steps.

The flash does not work

Cause	What to do
Is the flash setting correct?	When (() (flash off) is set as the flash setting, the flash will not go off. See "Controlling the Flash" on page 27 for details.

The LCD screen is hard to see

Cause

Cause	That to do
Is the LCD screen brightness level set to too bright?	Adjust the LCD Brightness setting in the Setup Menu. See "Adjusting Camera Settings" on page 41 for details.

What to do

The LCD screen displays vertical lines

Cause	What to do
Did you point the camera toward a bright light?	When you use the LCD screen to take photos, very bright light may affect the sensor and cause lines to appear on the screen. They will not appear in the recorded image itself.

Nothing appears on the LCD screen

Cause	What to do
Is the power saving function turned on?	Press any button or turn the Mode dial.
Is the camera connected to a printer or computer?	When the camera is connected to a computer, the LCD screen is disabled. The screen also goes black during printing.
Is the LCD screen turned off?	Press the DISP button to switch the LCD screen setting. See "Taking Photos Using the Viewfinder Only" on page 35 for details.

Image problems

Images are out of focus	
Cause	What to do
Did you operate the auto-focus correctly?	Place the subject in the center of the focus area and press the shutter button halfway. See "Taking Photos Using the LCD Screen" on page 25 for details.
Is the camera in the right distance mode setting?	Make sure you are at least 20 inches away from your subject (or 4.3 inches in Macro mode).
Is the lens dirty?	See "Cleaning your camera" on page 69 and clean the lens.
Is the captured image blurred?	Hold the camera in the proper position when shooting, with your arm close to your body. Use a tripod for night scenes and other low light situations.
The image is too dark or to bright (underexposed/overexposed)	
Cause	What to do
Is the flash setting correct?	Use the flash. See "Controlling the Flash" on page 27.

Is the exposure set to too dark or bright?	Adjust the exposure compensation setting properly. See "Setting Exposure Compensation" on page 38 for details.
Is the light sensitivity set to too low or high?	Adjust the light sensitivity setting properly. See "Setting Light Sensitivity" on page 37 for details.
Part of the image is missing	
Cause	What to do
Was your finger covering the lens?	When taking photos using the viewfinder, fingers, straps or pieces of clothing may partially cover the lens.
Are you looking straight through the viewfinder?	You can misjudge the composition of the picture if you are looking through the viewfinder at an angle or holding the camera away from your face.
Is the subject of the picture very close to the camera?	When the subject is less than three feet from the lens, you may be experiencing parallax problems. Use the LCD screen to check your

pictures before you capture them.

Printing problems

Canco

A horizontal or vertical red line appears on the image The color in the image does not look right The images do not look as good as they used to

Cause	What to do
Is the print head clogging?	See "Cleaning the print head nozzles" on page 67 and clean the print head. (Instructions apply to the Epson Stylus Photo R200 only. For other models, see the instructions that came with the printer.)
Are you using the right paper?	Make sure you load Epson Premium Glossy Photo Paper in your printer.

The wrong date and/or time is displayed on your camera

What to do

Cause	vi nat to do
Is the date and time setting set correctly?	See "Adjusting Camera Settings" on page 41 and set the date and time correctly.

List of Error Messages

Error message	Description
This memory card is write-protected.	The memory card is locked. Release the write-protect lever on the side of the card.
Memory card error. Check the memory card.	Unspecified memory card problem. See "Installing and Removing Memory Cards" on page 19 to remove the memory card and replace it. Contact the card maker.
No memory card inserted.	The camera has no memory card inserted. Insert a memory card.
Not enough free space in the camera's memory. Not enough free space on the memory card.	No more space in the camera's memory or on the memory card. Make room by deleting photos (see "Deleting Photos" on page 50) or export the photos to your computer and then reformat the card. (See "Copying Photos to Your Computer" on page 52).
This frame cannot be used with this camera.	The file size of the frame exceeds the limit (240kb).
The maximum number of Frames that can be registered to the memory card has been reached.	See "Deleting and Copying Frames" on page 56 to delete unnecessary frames.

Error message	Description
P.I.F. Frame does not exist or is unusable.	The picture can't be viewed because the link has been broken or the frame itself has been deleted. See "Deleting and Copying Frames" on page 56 and replace or add a frame linked to this file.
No images.	There are no images saved in the camera's memory or on the memory card.
This image cannot be displayed.	The image file exists but can't be displayed. Images that were taken with another camera or saved on your computer may not display on your camera.
Files cannot be deleted because the memory card is write-protected.	Release the write-protect lever on the side of the memory card.
The necessary Frame file does not exist or is unusable.	The picture cannot be viewed because there is no Frame file or the link has been broken. Replace or add a Frame linked to this file.
Ink is too low to perform this operation.	The ink level is too low for head cleaning. Replace the cartridge(s) following the printer instruction booklet.
Printer error.	There may be a problem with the printer. Turn the printer off for a few seconds then turn the power back on. If the error message still appears, turn the power off and check to see if there is anything (packing materials, paper) stuck inside the printer. Then turn the power back on.

Error message	Description
This image cannot be printed.	Images taken with another camera or saved on your computer may not print. Try printing from your computer.
Could not print. Retry?	If the printer is in the middle of printing something, it may not be able to accept the next request. Restart the printer or wait until the current print run is finished and then try again.
The printer is currently configured to print on a CD or DVD. Change the printer's configuration to that for printing on paper.	The CD-R/DVD-R tray on the printer is lowered. Raise the tray.
A communication error has occurred.	Either the cable has been disconnected or the power has been turned off. Recheck that the cable is connected, turn the power back on and try again.
XX images could not be printed.	Images taken with another camera or saved on your computer may not print. Try printing from your computer.
Cannot print because the necessary Frame file does not exist or is corrupted.	The picture cannot be printed because there is no Frame file or the link has been broken. Replace or add a Frame linked to this file.
This function is not available.	The printer does not support this function. Run the printer maintenance program from your computer instead of the camera.

Error message	Description
Parts inside your printer require maintenance.	The printer cannot print because internal components need adjusting. Turn the printer off for a few seconds then turn the power back on. If the error message still appears, contact Epson as described in "Where to Get Help" on page 81.

Where to Get Help

Epson provides technical assistance 24 hours a day through the electronic support services and automated telephone services listed below.

Service	Access
World Wide Web	From the Internet, you can reach Epson Support at http://support.epson.com. At this site, you can download drivers and other files, look at product documentation, access troubleshooting information, and receive technical advice through e-mail.
Automated Telephone Services	A variety of automated help services are available 24 hours a day, seven days a week. To use these services, you must have a touch tone telephone and call (800) 922-8911. Your Epson SoundAdvice SM Express Code is 70580. Use this code to quickly select the Epson PhotoPC L-410 in SoundAdvice.

To s	speak to a technical support representative, dial:
	U.S.: (562) 276-4303, 6 AM to 6 PM, Pacific Time, Monday through Friday.
	Canada: (905) 709-3839, 6 AM to 6 PM, Pacific Time, Monday through Friday.
Tol	l or long distance charges may apply.
Plea	ase have the following information ready:
	Product name (Epson PhotoPC L-410)
	Product serial number (located on the bottom of the camera)
	Proof of purchase (such as a store receipt) and date of purchase
	Computer configuration and operating system version
	Description of the problem

You can purchase ink cartridges, paper, manuals, and accessories from the Epson Stores^M at (800) 873-7766 or visit www.epsonstore.com (U.S. sales only). In Canada, please call (800) 463-7766 for dealer referral.

Maintenance and Troubleshooting

Appendix A

Specifications and Optional AC Adapter

Specifications

Effective pixels: 4.07 megapixels

Image recording capacity: Still picture: 2304×1728 pixels

Video: 640×480 pixels

Image file type: JPEG (EXIF 2.2), AVI

Camera file system: DCF file format, DPOF 1.1

Internal memory: 16 MB

Available memory card: SD memory card (Up to 512MB), Multimedia card

(Up to 512MB, MMC ver 2.1 or later, made by Hitachi[®] or SanDisk[®]).

Lens: Focal length: f=5.6 to 16.8 mm (equivalent to a 34 to 102 mm lens on

a 35 mm camera)

Aperture: F2.8/F4.9

Zoom: Collapsible mount 3× zoom

Digital zoom: $2 \times \text{ or } 3 \times \text{ zoom } (\text{maximum } 9 \times \text{ zoom with simultaneous use of the optical})$

zoom)

Focus mode: Auto focus

Auto-Focus range: Normal: 20 inches to infinity

Macro: 4.33 to 19.69 inches

Shutter speed: Auto/Flash on: 1/30 to 1/2000 second

Flash off: 1/2 to 1/2000 second Slow synchro: 1 to 1/2000 second

White balance: TTL auto white balance

(auto/daylight/cloudy/incandescent/fluorescent/mercury)

Sensitivity: Auto/fixed (equivalent to ISO 100/200/400)

Viewfinder: Real-image optical view

Flash: Auto/flash off/red-eye reduction/forced flash/slow synchro

Self-timer: 2 seconds/10 seconds

Photography mode: Normal/portrait/landscape/macro

LCD monitor: 1.5-inch low temperature polysilicon TFT color LCD monitor

Interface: USB 2.0 /serial dual interface

(Mass Storage Class)

Power sources: One CR-V3 battery included. Also accepts 2 AA alkaline, Ni-Cd, or NiMH

batteries, including rechargeables

External power source: Optional AC adapter (B867062)

Dimensions

(Height × Width × Depth): $2.4 \times 3.6 \times 1.2$ inches $(62 \times 92.5 \times 31.5 \text{ mm})$

Weight: Approx. 0.3 lb (152 g)

Temperature: Operating: 41 to 95 °F (5 to 35 °C)

Storage: -4 to 140 °F (-20 to 60 °C)

Electrical: Input voltage: DC 3.4 V

Safety: United States: FCC Part 15 Subpart B Class B

Canada: CSA C108.8 Class B

Optional AC adapter

Model: B867062

Input: AC 100 - 240 V

Output: DC 3.4 V, 2.5 A

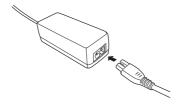
Power consumption: 14 W

Using the AC adapter

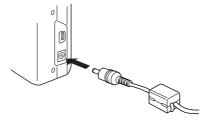
Note:

Read any instructions provided with the AC adapter before using it.

1. If your AC adapter has a separate AC power cable, connect the cable connector firmly into the AC inlet.



2. Open the connector cover on the side of the camera and plug the adapter cable into the **DC IN** port on the camera.



3. Plug the AC adapter into an electrical outlet.



Caution:

Do not use the adapter for any device other than your Epson PhotoPC L-410 camera.

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