

HP Photosmart E327 Digital Camera



User Guide



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1 Getting started

Congratulations on your purchase of the HP Photosmart E327 digital camera and welcome to the world of digital photography!

This manual explains camera features you can use to ensure great results while enjoying the photographic experience. Some of these features are:

- **Video and audio capability**—Record video clips (see page 24) or add audio clips to your still pictures (see page 54).
- **Transferring images to a computer**—Easily transfer images from your camera to your computer. See page 55.
- **Direct print**—Print directly from your camera to any PictBridge-certified printer without having to connect to your computer. See page 56.
- **Internal memory or memory card**—Store images in your camera's internal memory or on an optional memory card of your choice. See page 11.

Setup

To locate a part on your camera (such as a button or a light) while following the instructions in this section, see **Camera parts** on page 14.

1. Install the batteries

1. Open the Battery/Memory card door on the side of the camera by sliding the door toward the front of the camera.
2. Insert the batteries as indicated inside the door.
3. Close the Battery/Memory card door by pushing the door down and sliding the door toward the back of the camera until the door latches.



For the performance of NiMH, Lithium, and Alkaline batteries when used with this camera, see **Performance per battery type** on page 106. For the number of shots you can expect to get for each battery type based on usage, see **Number of shots per battery type** on page 107. For hints on optimizing battery performance, see **Appendix A, Managing batteries**, starting on page 103.

TIP: If you use rechargeable NiMH batteries, you can recharge the batteries in the optional HP Photosmart quick recharger. For more information, see **Appendix B, Purchasing camera accessories**, starting on page 113.

2. Turn on the camera

To turn the camera on, slide the lens cover open until it clicks, uncovering the lens. The Power/Memory light on the back of the camera turns on solid green. The HP logo also displays on the Image Display as the camera powers up.





To turn the camera off, slide the lens cover closed until it clicks, covering the lens.

CAUTION: When sliding the lens cover, keep your fingers clear of the lens. Fingerprints on the lens can impair the quality of the picture. For information about cleaning the lens, see **Cleaning the camera** on page 117.

3. Choose the language

The first time you turn the camera on, you are prompted to choose a language.

1. Scroll to the language that you want by using the ▲▼◀▶ buttons on the **Controller** .
2. Press the  button to select the highlighted language.

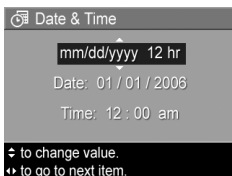


TIP: If you need to change the language later, you can do this with the **Language** setting in the **Setup** menu. See **Chapter 5, Using the Setup Menu**.

4. Set the date and time

The camera has a clock that records the date and time at which you take each picture. This information is recorded in the image properties, which you can see in **Playback**, when viewing **Image Advice**, and when viewing the image on your computer. You can also choose to have the date and time imprinted on the image (see **Date & Time Imprint** on page 36).

1. The first item highlighted is the date and time format. If you want to change the format, use the ▲▼ buttons. If the date and time format is correct, press the ► button to move to the next selection.



2. Adjust the value of the highlighted selection using the ▲▼ buttons.
3. Press the ◀▶ buttons to move to the other selections.
4. Repeat Steps 2 and 3 until the date and time are set correctly.
5. Press the $\frac{\text{Menu}}{\text{OK}}$ button when you have entered the proper values for the date and time. A confirmation screen appears, asking if the correct date and time have been set. If the date and time are correct, press the $\frac{\text{Menu}}{\text{OK}}$ button to select **Yes**.

If the date and time are incorrect, press the ▼ button to highlight **No**, and then press the $\frac{\text{Menu}}{\text{OK}}$ button. The **Date & Time** screen appears again. Repeat Steps 1 through 5 to set the correct date and time.


TIP: If you need to change the date and time settings later, you can do this with the **Date & Time** setting in the **Setup** menu. See **Chapter 5, Using the Setup Menu**.

5. Install and format a memory card (optional)

Your camera contains internal memory that allows you to store images and video clips. However, you can use a memory card (purchased separately) instead to store images and video clips. For more information about supported memory cards, see **Storage** on page 121.

1. Turn off the camera and open the Battery/Memory card door on the side of the camera.
2. Insert the memory card in the small slot behind the batteries, with the notched end of the card going in first, as shown. Make sure the memory card snaps into place.
3. Close the Battery/Memory card door and turn on the camera.
4. Press the **Menu**/**OK** button, then use the **▶** button to move to the **Playback Menu** **▶**.
5. Press the **▼** button to highlight **Delete**, and then press the **Menu**/**OK** button to display the **Delete** sub-menu.
6. Use the **▼** button to highlight **Format Card**, and then press the **Menu**/**OK** button to display the **Format Card** confirmation screen.



7. Press the ▼ button to highlight **Yes**, and then press the  button to format the card.

Formatting Card... appears in the Image Display while the camera is formatting the memory card. When the camera has completed the formatting, the Total Images Summary screen is displayed (see **Total Images Summary Screen** on page 46).

To remove the memory card from the camera, first turn the camera off. Then open the Battery/Memory card door, press down on the top edge of the memory card, and it will spring outward from the slot.

NOTE: When you install a memory card in the camera, all new images and video clips will be stored on the card, and you will no longer be able to view images stored in the camera's internal memory. To use internal memory and view images stored there, remove the memory card, or transfer the images from the internal memory to the memory card (see **Move Images to Card** on page 65).

6. Install the software

The HP Photosmart Software allows you to transfer images.

NOTE: If you do not install the HP Photosmart Software, you can still transfer images. For details, see **Using your camera without installing the HP Photosmart Software** on page 69.

NOTE: If you have trouble installing or using the HP Photosmart Software, see the HP Customer Care website: www.hp.com/support for more information.

Windows®

To install the HP Photosmart Software successfully, your computer must have a minimum of 64MB of RAM, Windows x64, XP, 2000, 98, 98 SE, or Me, and Internet Explorer 5.5 Service Pack 2 or higher. Internet Explorer 6 is recommended. If your computer meets these requirements, the installation process installs either HP Photosmart Premier (Windows XP only) or HP Photosmart Essential. For differences between these, see **HP Photosmart Software** on page 69.

1. Close all programs and temporarily disable any virus protection software running on your computer.
2. Insert the HP Photosmart Software CD into the CD drive of your computer and follow the on-screen instructions. If the installation screen does not appear, click **Start**, click **Run**, type **D:\Setup.exe**, where **D** is the letter of your CD drive, then click **OK**.
3. When the HP Photosmart Software has finished installing, re-enable the virus protection software you disabled in Step 1.

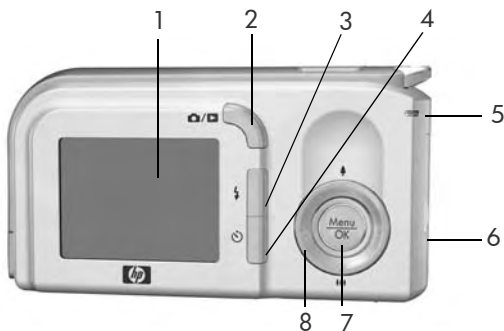
Macintosh



1. Insert the HP Photosmart Software CD into the CD drive of your computer.
2. Double-click the CD icon on the computer desktop.
3. Double-click the installer icon, and then follow the on-screen instructions.













Camera parts

Refer to the pages in parentheses after the part names in the following tables for more information about those parts.

Back of the camera




#	Name	Description
1	Image Display (page 21, 43)	Allows you to frame pictures and video clips using Live View and review them afterward in Playback , and to view all the menus.
2	 /  Live View/Playback button	<ul style="list-style-type: none">• If Live View is displayed, allows you to switch to Playback.• If Playback is displayed, allows you to switch to Live View.• If the Image Display is off, but the camera is on, allows you to turn the Image Display on.• If a menu is open in the Image Display, allows you to close the menu.

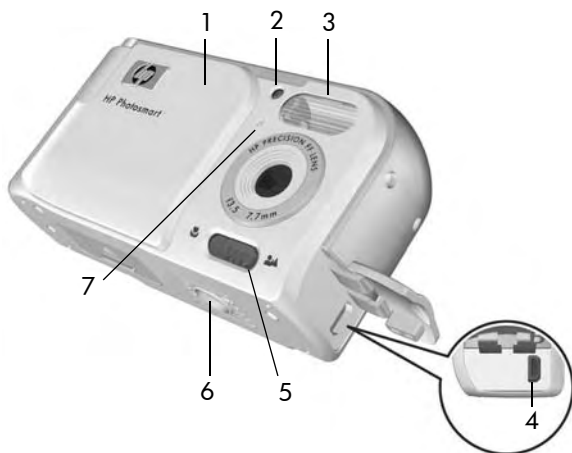
#	Name	Description
3	 Flash button (page 26)	Allows you to select between the different flash settings.
4	 Self-Timer button (page 29)	Allows you to take a self-timer picture.
5	Power/Memory light	<ul style="list-style-type: none"> • Solid green—Camera is on. • Blinking green—Camera is writing to either the internal memory or an installed memory card.
6	Battery/Memory card door (pages 8, 11)	Allows access to insert and remove the batteries and an optional memory card.
7	 button (pages 31, 47)	Allows you to display camera menus, select menu options, and confirm certain actions on the Image Display.
8	 Controller with  and  buttons	<ul style="list-style-type: none"> •  buttons—Allows you to scroll vertically through menus. •  buttons—Allows you to scroll horizontally through menus and images on the Image Display. •  Zoom In ( button)—While in Live View, allows you to digitally zoom the picture to a lower resolution while taking still pictures (page 25). •  Zoom Out ( button)—While in Live View, allows you to digitally zoom the picture to a higher resolution while taking still pictures (page 25).


Top of the camera



#	Name	Description
1	Shutter button (page 23)	Takes a picture.
2	Wrist strap mount	Allows you to attach a wrist strap to the camera.
3	 Video button (page 24)	Starts and stops recording a video clip.

Front, left side, and bottom of the camera





#	Name	Description
1	Lens cover/Power switch (page 9)	Turns the camera on and off and protects the lens when the camera is off.
2	Self-Timer/Video light (pages 24, 29)	Blinks during the count-down before taking a picture when the camera is set to Self-Timer . Also turns on solid when recording video.
3	Flash (page 26)	Provides additional light to improve picture-taking.
4	 USB connector (pages 55, 56)	Allows you to connect a USB cable from the camera to a USB-enabled computer or any PictBridge-certified printer.

#	Name	Description
5	Focus Mode switch (page 28)	Allows you to switch between Normal and Macro focus mode.
6	Tripod mount	Allows you to mount the camera on a tripod.
7	Microphone (pages 24, 54)	Records audio clips that are attached to still images and the audio portion of video clips.

Camera states





Your camera has two main states that allow you to complete certain tasks.

- **Live View**—Allows you to take still pictures and record video clips. For information about using **Live View** , see **Chapter 2, Taking pictures and recording video clips**, starting on page 21.
- **Playback**—Allows you to review the still images and video clips that you capture. For information about using **Playback** , see **Chapter 3, Reviewing images and video clips**, starting on page 43.






To switch between **Live View** and **Playback** states, press the **Live View/Playback**  /  button.



Camera menus


Your camera has three menus that, when accessed, appear in the Image Display on the back of the camera.

To access the menus, press the $\frac{\text{Menu}}{\text{OK}}$ button, then use the   buttons to move to the menu you want. To select a menu option, use the   buttons to highlight it, then press the $\frac{\text{Menu}}{\text{OK}}$ button to display the menu option's sub-menu and modify the settings.


To exit a menu, you can do one of the following:

- Press the **Live View/Playback**  /  button.
- Use the   buttons to scroll to the  **EXIT** menu option and press the $\frac{\text{Menu}}{\text{OK}}$ button.


TIP: In the **Capture** and **Setup Menus**, you can modify settings by highlighting the menu option and using the   buttons to change the setting.

The **Capture Menu**  lets you specify settings for taking a picture such as image quality, ISO speed, and imprinting the date and time on the images. For information about using this menu, see **Using the Capture Menu** on page 31.



The **Playback Menu**  lets you magnify and rotate images, add audio clips to images, select images for printing, and delete images. For information about using this menu, see **Using the Playback Menu** on page 47.








The **Setup Menu**  lets you modify configuration settings such as display brightness, date and time, and language, among others. It also allows you to move images from the internal memory to an optional memory card. For information about using this menu, see **Chapter 5, Using the Setup Menu**, starting on page 59.



2 Taking pictures and recording video clips




Using Live View

The Image Display allows you to frame pictures and video clips using **Live View**. To activate **Live View** when the Image Display is off, press the **Live View/Playback**  /  button until the **Live View**  icon appears in the upper left corner of the Image Display.

TIP: To conserve battery life, the Image Display shuts down during periods of inactivity when the camera is on. You can activate the Image Display by pressing the **Live View/Playback**  /  button.




The following table describes the information that is displayed in **Live View** when the camera settings are at their default values and an optional memory card is installed in the camera. If you change other camera settings, icons for those settings will also be displayed in **Live View**.



#	Icon	Description
1		Live View icon, indicating the camera is in Live View . This icon displays for the first few seconds.
2		Indicates that a memory card is installed in the camera
3		Power indicator, such as this full battery level indicator (see Power indicators on page 108)
4	12	Remaining pictures count (actual number depends on the current Image Quality setting and how much space remains in memory)
5	5MP	Image Quality setting (default is 5MP)

Taking still pictures


To take a still picture:

1. Press the **Live View/Playback**  /  button until the **Live View**  icon appears in the upper left corner of the Image Display, then frame the subject for your picture in the Image Display.









2. Press the **Shutter** button to take the picture. The camera beeps after taking the picture.


TIP: Hold the camera with both hands and gently press the **Shutter** button to reduce camera shake and prevent blurry pictures.

After a picture is taken, the image appears for several seconds on the Image Display. This is called **Instant Review**. You can delete the image during **Instant Review** by pressing the  button, then selecting **This Image** in the **Delete** sub-menu.

Recording video clips

1. Press the **Live View/Playback**  /  button until the **Live View**  icon appears in the upper left corner of the Image Display, then frame the subject for your video using the Image Display.
2. To start recording video, press and release the **Video**  button on the top of the camera. A video  icon, **REC**, a video counter, and a message instructing how to end the video appear on the Image Display. The Self-Timer/Video light turns on solid red.
3. To stop recording video, press and release the **Video**  button again; otherwise, the video will continue recording until the camera runs out of memory.






After recording has stopped, the first frame of the video clip appears for three seconds on the Image Display. This is called **Instant Review**. You can delete the video clip during **Instant Review** by pressing the  button, then selecting **This Image** in the **Delete** sub-menu.

A video clip includes audio. To hear the audio portion of your video clips, transfer them to your computer and use the HP Photosmart software.


NOTE: Digital zoom is not available while recording video clips.

Using digital zoom

You can use digital zoom whenever you want to capture only a portion of the scene in the Image Display. As you zoom in, a yellow frame surrounds the portion of the scene you want to capture, allowing you to eliminate unwanted portions of the scene.

1. While in **Live View**, press the **▲** button (**Zoom In**  icon) to enter digital zoom.
2. Continue to press **Zoom In**  until a yellow frame surrounds the area of the image you want to capture. If you zoom in too far and want to zoom out, press the **▼** button (**Zoom Out**  icon) to enlarge the selection.









- The resolution number on the right side of the screen also becomes smaller as you digitally zoom. For example, **2.2MP** appears in place of **5MP**, indicating that the image is being captured at a size of 2.2 Megapixels.
3. When the image is at the desired size, press the **Shutter** button to take the picture.
 4. To turn digital zoom off, press the **▼** button (**Zoom Out**  icon) until the yellow frame disappears.

NOTE: Digital zoom reduces the resolution of an image, so your picture will tend to be more pixilated or grainy than images taken without zoom. In situations where you need higher quality (such as for printing), limit the use of digital zoom.

NOTE: Digital zoom is not available while recording video clips.

Setting the flash

The **Flash**  button allows you to cycle through the flash settings on the camera. To change the flash setting, press the **Flash**  button until the desired setting appears on the Image Display. The following table describes each of the flash settings on the camera.

Setting	Description
Auto Flash 	The camera measures the light level and uses the flash if necessary.
Red-Eye 	The camera measures the light level and uses the flash with red-eye reduction if necessary (for a description of red-eye reduction, see Red eye on page 27).
Flash On 	The camera always uses flash. If the light is behind your subject, you can use this setting to increase the light on the front of your subject. This is called fill-flash.
Flash Off 	The camera will not use flash, no matter the lighting conditions. Use this setting to capture poorly lit subjects that are beyond the flash range. Exposure times may be increased when using this setting, so you should use a tripod to avoid blurry pictures from camera shake.

NOTE: The flash is not available in **Sunset** mode nor is it available while recording video clips.

If the flash setting is anything other than the default **Auto Flash** setting, the icon for the setting will appear in the **Live View** screen. The new setting remains in effect until it is changed again or until the camera is turned off. The flash setting resets to the default **Auto Flash** setting when you turn the camera off.



Red eye

The red-eye phenomenon is caused by light from the flash reflecting off the subjects' eyes, which sometimes makes a human's eyes appear red or an animal's eyes appear green or white in the captured image. When you use a flash setting with red-eye reduction, the camera flashes quickly up to three times to cause the subject's pupils to contract, thus reducing the effect of the red-eye phenomenon, before the camera uses the main flash. It will take longer to take a picture using red-eye reduction, because the shutter is delayed for the additional flashes. Therefore, make sure your subjects wait for the additional flashes.



Using the focus modes

Focus modes change the focal distance of the camera to make it possible to take pictures of objects that are close to or far away from the camera.

To change the focus mode, slide the **Focus Mode** switch on the front of the camera. The following table describes both of the focus mode settings on the camera.

Setting	Description
Normal 	Use Normal mode when you need to take pictures of subjects more than 1 m (39 in) away.
Macro 	Use Macro mode to take close-up pictures of subjects less than 1 m (39 in) away. In this mode, the camera will focus at a distance range of 60 cm to 1m (24 to 39 in), and the Macro icon appears on the image display.


Using the self-timer settings


1. Secure the camera to a tripod or set it on a stable surface.
2. Press the **Timer**  button. **Self-Timer**  appears in the Image Display.
3. Frame the subject (see page 21).
4. The next steps depend on whether you are capturing a still picture or recording a video clip.

For Still Pictures:

Press the **Shutter** button. A countdown appears on the screen and the Self-Timer/Video light blinks for 10 seconds before the camera takes the picture.

For Video Clips:

To start recording video, press the **Video**  button and then release it. A 10-second countdown appears on the Image Display. The Self-Timer/Video light on the front of the camera then blinks for 10 seconds before the camera starts recording the video.



To stop recording the video clip, press the **Video**  button again; otherwise, the video will continue recording until the camera runs out of memory.

The self-timer setting resets to the default **Normal** setting after the picture is taken or the video clip is recorded.



TIP: If you are taking still images in low light with or without a tripod, you can use the self-timer setting to avoid blurry images caused by camera shake. Place the camera on a steady surface or a tripod, frame your picture, then press the **Shutter** button all the way down and remove your hands from the camera. The camera will wait 10 seconds before taking the image, eliminating any possibility of your shaking the camera when you press the **Shutter** button.

Using the Capture Menu

The **Capture Menu** allows you to adjust various camera settings that affect the characteristics of the images and video clips you capture with your camera.

1. To display the **Capture Menu**, press the $\frac{\text{Menu}}{\text{OK}}$ button if **Live View** is on. If **Live View** is not on, press the **Live View/Playback**  /  button, and then press the $\frac{\text{Menu}}{\text{OK}}$ button.



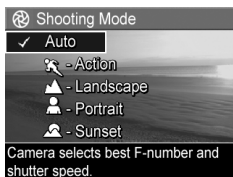
2. Use the \blacktriangle \blacktriangledown buttons to scroll through the **Capture Menu** options.
3. Either press the $\frac{\text{Menu}}{\text{OK}}$ button to select a highlighted option and display its sub-menu, or use the \blacktriangleleft \blacktriangleright buttons to change the setting for the highlighted option without going to its sub-menu.
4. Within a sub-menu, use the \blacktriangle \blacktriangledown buttons and then the $\frac{\text{Menu}}{\text{OK}}$ button to change the setting for the **Capture Menu** option.
5. To exit the **Capture Menu**, press the **Live View/Playback**  /  button. For other ways to exit a menu, see **Camera menus** on page 19.

Shooting Modes


This setting provides a pre-defined set of camera settings that are optimized for taking still pictures of certain scene types to give you better results. In each shooting mode, the camera selects the best settings, such as the ISO speed and shutter speed, optimizing them for the particular scene or situation.




NOTE: The shooting mode does not apply when you are recording video clips.

1. In the **Capture Menu** (page 31), select **Shooting Mode**.
2. In the **Shooting Mode** sub-menu, use the ▲▼ buttons to highlight a setting.
3. Press the $\frac{\text{Menu}}{\text{OK}}$ button to save the setting and return to the **Capture Menu**.



The following table explains the **Shooting Mode** settings in more detail:

Setting	Description
Auto Mode	Use Auto Mode when you need to take a good shot quickly, and do not have time to select a special shooting mode on the camera. Auto Mode works well for most shots in normal situations. The camera automatically selects the best ISO speed and shutter speed for the scene.
Action 	Use Action mode to capture sporting events, moving cars, or any scene where you want to stop the action. The camera uses fast shutter speeds and higher ISO speeds to stop motion.

Setting	Description
Landscape 	Use Landscape mode to capture scenes with deep perspective, such as mountains or city skylines, when you want the foreground and the background to be in focus. The camera uses lower ISO and operates with higher saturation for a more vivid effect.
Portrait 	Use Portrait mode for pictures that have one or more people as their primary subject. The camera optimizes color combined with lower sharpness for a more natural effect.
Sunset 	Use Sunset mode to capture outdoor scenes at sunset. This mode starts the focus at infinity and sets the flash to Flash Off . This mode improves the saturation of sunset colors and retains the warmth of the scene with a bias towards the orange colors of the sunset.

If the shooting mode setting is anything other than the default **Auto Mode** setting, the icon for the setting will appear in the **Live View** screen. The new setting remains in effect until it is changed again or until the camera is turned off. The shooting mode setting resets to the default **Auto Mode** setting when you turn the camera off.

Image Quality

This setting allows you to set the resolution and JPEG compression of the still images you capture with your camera. The **Image Quality** sub-menu has five settings.

1. In the **Capture Menu** (page 31), select **Image Quality**.
2. In the **Image Quality** sub-menu, use the ▲▼ buttons to highlight a setting.
3. Press the $\frac{\text{Menu}}{\text{OK}}$ button to save the setting and return to the **Capture Menu**.



The **Image Quality** setting affects both the quality of the images and the number of images that can be stored either in the camera's internal memory or on an optional memory card. For example, the **5MP Best** setting results in the highest quality images, but consumes more memory space than the next lower setting, **5MP**. Likewise, many more still images can be stored in memory at the **3MP**, **1MP** or **VGA** settings than at **5MP**; however, these settings result in lower quality images.

The following table explains the **Image Quality** settings in more detail:

Setting	Description
5MP Best	Images will be full resolution and have the lowest compression. This setting produces very high quality images and uses the most memory. This setting is recommended if you plan to print images up to 297 by 420 mm (11 by 17 in).
5MP	Images will be full resolution and have medium compression. This setting produces high quality images, but uses less memory than the 5MP Best setting above. This is the default setting and is recommended if you plan to print images up to a size of 210 by 297 mm (8.5 by 11 in).
3MP	Images will be medium resolution and have medium quality and compression. This is a memory-efficient setting and is recommended if you plan to print images up to a size of 130 by 180 mm (5 by 7 in).
VGA	Images will be 640 by 480 (lowest) resolution and have medium compression. This is the most memory-efficient setting, but produces lower quality images. This setting is good for images you want to send via e-mail or post to the Internet.

The **Pictures remaining** count at the bottom of the **Image Quality** sub-menu screen updates when you highlight each setting. See **Memory capacity** on page 123 for more information about how the **Image Quality** setting affects the number of images that can be saved in the internal memory in the camera.

The **Image Quality** setting will appear in the **Live View** screen. The new setting remains in effect until it is changed again, even when you turn the camera off.

NOTE: When you use digital zoom, the resolution is further reduced as you zoom in. See **Using digital zoom** on page 25.

NOTE: **Image Quality** settings do not apply when recording video clips.

Date & Time Imprint

This setting imprints either the date or the date and time of when the image was captured in the lower left-hand corner of the image. After you select either of the **Date & Time Imprint** settings, the date or date and time will be imprinted on all subsequent still images that are captured, not on previously captured images.



After you have taken a picture using either the **Date Only** or **Date & Time** setting, the date or date and time that is imprinted on the image cannot be removed later.

TIP: Verify that the date and time setting is correct before using this feature (see **Date & Time** on page 62).

1. In the **Capture Menu** (page 31), select **Date & Time Imprint**.
2. In the **Date & Time Imprint** sub-menu, use the ▲▼ buttons to highlight a setting.
3. Press the $\frac{\text{Menu}}{\text{OK}}$ button to save the setting and return to the **Capture Menu**.



The following table explains the settings in more detail:

Setting	Description
Off	The camera will not imprint a date or date & time on the image.
Date Only 	The camera will permanently imprint the date in the lower left-hand corner of the image.
Date & Time 	The camera will permanently imprint the date and time in the lower left-hand corner of the image.


If the new setting is anything other than the default **Off** setting, the icon for the setting will appear in the **Live View** screen. The new setting remains in effect until it is changed again, even when you turn the camera off.


NOTE: The **Date and Time** setting does not apply when recording video clips.

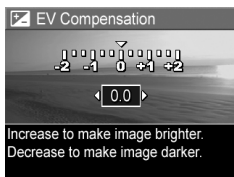
EV Compensation

In difficult lighting conditions, you can use **EV** (Exposure Value) **Compensation** to override the automatic exposure setting that the camera makes.

EV Compensation is useful in scenes that contain many light objects (like a white object against a light background) or many dark objects (like a black object against a dark background). Scenes containing many light objects or many dark objects could turn out gray without the use of **EV Compensation**. For a scene with many light objects, increase the **EV Compensation** to a positive number to produce a brighter result. For a scene with many dark objects, decrease the **EV Compensation** to darken the scene to be closer to black.

1. In the **Capture Menu** (page 31), select **EV Compensation**.
2. In the **EV Compensation** sub-menu, use the ◀▶ buttons to change the EV setting in 0.33 steps from -2.0 to +2.0. The new setting is applied to the **Live View** screen behind the menu, so you can see the effect each setting will have on the picture.
3. Press the  button to save the setting and return to the **Capture Menu**.

If the setting is anything other than the default setting of **0.0**, the number value will appear in the **Live View** screen next to the  icon. The new setting remains in effect until it is changed again or until the camera is turned off. The **EV Compensation** setting resets to the default **0.0** setting when you turn the camera off.

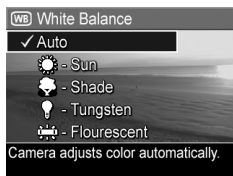



White Balance

Different kinds of lighting conditions cast different colors. For example, sunlight is more blue, while indoor tungsten light is more yellow. Scenes dominated by a single color may require an adjustment of the white balance setting to help the camera reproduce colors more accurately and ensure that whites appear white in the final image. You can also adjust the white balance to produce creative effects. For example, using the **Sun** setting can produce a warmer look to the image.



1. In the **Capture Menu** (page 31), select **White Balance**.



2. In the **White Balance** sub-menu, use the ▲▼ buttons to highlight a setting. The new setting is applied to the **Live View** screen behind the menu, so you can see the effect each setting will have on the picture.



3. Press the  button to save the setting and return to the **Capture Menu**.

The following table explains the settings in more detail:

Setting	Description
Auto	The camera automatically identifies and corrects for scene illuminance. This is the default setting.
Sun 	The camera balances color assuming the subject is outdoors under sunny or bright cloudy conditions.
Shade 	The camera balances color assuming the subject is outdoors in shade, in dark cloudy conditions, or at dusk.

Setting	Description
Tungsten 	The camera balances color based on incandescent or halogen lighting (typically found in homes).
Fluorescent 	The camera balances color based on fluorescent lighting.

If the setting is anything other than the default **Auto** setting, the icon for the setting will appear in the **Live View** screen. The new setting remains in effect until it is changed again or until the camera is turned off. The **White Balance** setting resets to the default **Auto** setting when you turn the camera off.

ISO Speed

This setting adjusts the sensitivity of the camera to light. When **ISO Speed** is set to the default **Auto** setting, the camera selects the best ISO speed for the scene.

Lower ISO speeds will capture images with the least amount of grain (or noise), but result in slower shutter speeds. If taking a picture in low light conditions without a flash at **ISO 100**, you may want to use a tripod. In contrast, higher ISO numbers allow faster shutter speeds, and can be used when taking pictures in dark areas without a flash, or when taking pictures of fast moving objects. Higher ISO speeds produce pictures with more grain (or noise).

1. In the **Capture Menu** (page 31), select **ISO Speed**.
2. In the **ISO Speed** sub-menu, use the **▲▼** buttons to highlight a setting.
3. Press the **Menu**/**OK** button to save the setting and return to the **Capture Menu**.



If the setting is anything other than the default **Auto** setting, the icon for the setting (as shown in the **ISO Speed** sub-menu) will appear in the **Live View** screen. The new setting remains in effect until it is changed again or until the camera is turned off. The **ISO Speed** setting resets to the default **Auto** setting when you turn the camera off.








NOTE: The **ISO Speed** setting does not apply when recording video clips.


3 Reviewing images and video clips



You can use **Playback** to review the images and video clips stored in your camera.

In addition, the **Playback Menu** allows you to view thumbnails of images or magnify images so you can take a closer look at them on the camera, delete images or video clips, and manipulate images. To do these things and more, see **Using the Playback Menu** on page 47.

Using Playback

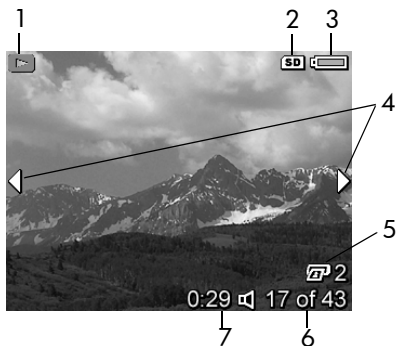
1. Press the **Live View/Playback**  /  button until the **Playback**  icon appears in the upper left corner of the Image Display.
2. Use the   buttons to scroll through your images and video clips. Press and hold either of the   buttons to scroll faster.








For video clips, indicated by the video  icon, you see only the first frame for the first 2 seconds. They then begin playing automatically.

3. To change to **Live View** after reviewing your images and video clips, press the **Live View/Playback**  /  button again.



NOTE: To hear audio clips that have been attached to your still images or listen to the audio associated with video clips, transfer them to your computer and use the HP Photosmart Premier Software.

During **Playback**, the Image Display also indicates additional information about each image or video clip. The following table describes this information.



#	Icon	Description
1		Playback icon, indicating the camera is in Playback . This icon displays for the first few seconds.
2		Displays only when an optional memory card is installed in the camera.
3		Power indicator, such as this full battery level indicator (see Power indicators on page 108).
4		Displays for the first few seconds when you enter Playback to indicate that you can scroll through the images or video clips using the ◀▶ buttons.
5	 2	Indicates this image has been selected for printing 2 copies (see Print on page 52).
6	17 of 43	Shows the number of this image or video clip out of the total number of images and video clips that are stored in memory.
7	0:29	<ul style="list-style-type: none"> Shows the recorded length of this audio or video clip.
		<ul style="list-style-type: none"> Indicates this image has an audio clip attached.
	or	
		<ul style="list-style-type: none"> Indicates this is a video clip.





Total Images Summary Screen

When you press the ► button while viewing the last image, the **Total Images Summary** screen appears showing the number of pictures taken, and the number of pictures remaining. A counter indicating the total number of images selected for printing  is shown in the upper left-hand corner of the screen. In addition, icons are shown in the upper right-hand corner of the screen for an optional memory card if installed (indicated by the **SD** icon ) and the power indicator (see **Power indicators** on page 108).



Using the Playback Menu

The **Playback Menu** allows you to delete still images or video clips, undelete images, and format the camera's internal memory or optional memory card. Additionally, you can record audio clips to attach to an image, view thumbnails, magnify and rotate images, and select images for printing.


1. To display the **Playback Menu**, press the $\frac{\text{Menu}}{\text{OK}}$ button while you are in **Playback**. If you are not currently in **Playback**, press the **Live View/Playback**  /  button until you are in **Playback**, then press the $\frac{\text{Menu}}{\text{OK}}$ button.
2. Use the \blacktriangle \blacktriangledown buttons to highlight the **Playback Menu** option that you want to use on the left side of the Image Display. The **Playback Menu** options are explained later in this section.
3. Move to the image or video clip you want to use by pressing the \blacktriangleleft \blacktriangleright buttons. This makes it easy to perform the same action on several images or video clips, such as deleting multiple images or video clips.
4. Select the highlighted **Playback Menu** option by pressing the $\frac{\text{Menu}}{\text{OK}}$ button. Follow the instructions on the screen to complete the selected task.
5. To exit the **Playback Menu**, press the **Live View/Playback**  /  button. For other ways to exit a menu, see **Camera menus** on page 19.

The following table summarizes the **Playback Menu** options.



#	Icon	Description
1		Delete —Presents a sub-menu where you can delete the current image or video clip, delete all images and video clips, format the internal memory or an optional memory card, and undelete the last deleted image. (See Delete on page 49.)
2		View Thumbnails —Displays a thumbnail view of images and video clip frames on the Image Display. (See Viewing thumbnails on page 50.)
3		Magnify —Magnifies the currently displayed image. (See Magnifying images on page 51.)
4		Print —Allows you to specify the number of copies of the currently displayed image to print when connected to a computer or printer. (See Print on page 52.)
5		Rotate —Rotates the currently displayed still image in 90 degree increments. (See Rotate on page 53.)
6		Record Audio —Records an audio clip to attach to this still image. (See Record Audio on page 54.)
7		EXIT —Exits the Playback Menu .

Delete

In the **Playback Menu** (page 47), when you select **Delete**, the **Delete** sub-menu displays. Use the ▲▼ buttons to highlight an option, and then press the  button to select it.




The **Delete** sub-menu provides the following options:

- **Cancel**—Returns you to the **Playback Menu** without deleting the currently displayed image or video clip.
- **This Image**—Deletes the currently displayed image or video clip.
- **All Images (in Memory/on Card)**—Deletes all of the images and video clips either in internal memory, or on an optional memory card that is installed in the camera.
- **Format (Memory/Card)**—Deletes all of the images, video clips, and files in internal memory or on an optional memory card, and then formats the internal memory or memory card. To help prevent corrupted cards and images, use **Format Card** to format optional memory cards before you use them for the first time, and when you want to delete all of the images and video clips stored on them.
- **Undelete Last**—Recovers the most recently deleted image. (This option is only displayed after a **Delete** operation has been performed.) You can recover only the most recently deleted image. Once you proceed to another operation, such as powering off the camera or taking another picture, the delete operation you performed is permanent, and the image is no longer recoverable.

Viewing thumbnails

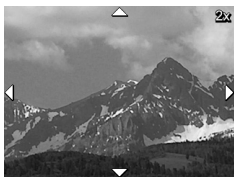
In the **Playback Menu** (page 47), when you select **View Thumbnails** you can view the still images you have taken and the first frames of the video clips you have recorded arranged in a matrix of nine thumbnail images and video clip frames per screen.

1. In the **Playback Menu**, select **View Thumbnails**. A **Thumbnail** view of up to nine images and video clip frames appears on the Image Display. A yellow border surrounds the current image or video clip frame.
2. Use the ◀▶ buttons to scroll horizontally to the previous or next thumbnail.
3. Use the ▲▼ buttons to scroll vertically to the thumbnail directly above or below the current thumbnail.
4. Press the Menu/OK button to exit **Thumbnail** view and return to **Playback**. The current image or video clip (that was in the yellow border in **Thumbnail** view) is displayed in full view on the Image Display again.

At the bottom of the Image Display, a print icon indicates that the current image has been selected for printing, an audio icon signifies that an audio clip is attached to this still image, and a video icon signifies that the image is a video clip.

Magnifying images

In the **Playback Menu** (page 47), when you select **Magnify**, the currently displayed image is automatically magnified 2x. The center portion of the magnified image is displayed.



1. In the **Playback Menu**, select **Magnify**.
2. To pan around the magnified image, use the ◀▶ and ▲▼ buttons.
3. To increase magnification to 4x, press the $\frac{\text{Menu}}{\text{OK}}$ button. Press the $\frac{\text{Menu}}{\text{OK}}$ button again to return to normal magnification.
4. Press the $\frac{\text{Menu}}{\text{OK}}$ button to exit **Magnify** and return to **Playback**.

NOTE: You can only magnify still images; video clips cannot be magnified.

Print

In the **Playback Menu** (page 47), when you select **Print**, the camera displays a sub-menu that allows you to select a still image for printing.

1. In the **Playback Menu**, select **Print**. The Print selection screen appears on the Image Display with the number of copies to print displayed in the center of the screen.



2. Use the ▲▼ buttons to increase or decrease the number of copies to print.
3. Use the ◀▶ buttons to select additional images to print.
4. After you have selected the images to be printed, press the $\frac{\text{Menu}}{\text{OK}}$ button to return to the Playback Menu.

Images selected for printing will be printed when you connect your camera to a PictBridge-certified printer (see **Printing images directly from the camera** on page 56) or a computer with the HP Photosmart Software installed (see **HP Photosmart Software** on page 69).

NOTE: **Print** is not available for video clips.

Rotate

In the **Playback Menu** (page 47), when you select **Rotate**, the camera displays a sub-menu that allows you to rotate the image in 90-degree increments.

1. In the **Playback Menu**, select **Rotate**.
2. Use the ◀▶ buttons to rotate the image clockwise or counter-clockwise. The image rotates in the Image Display.
3. After you have rotated the image to the desired orientation, press the $\frac{\text{Menu}}{\text{OK}}$ button to save image in the new orientation.

NOTE: **Rotate** is not available for video clips.

Record Audio

In the **Playback Menu** (page 47), when you select **Record Audio**, you can attach an audio clip to a still picture you have already taken, or you can replace an audio clip already attached to an image.

1. In the **Playback Menu**, select **Record Audio**. Audio recording starts immediately.
2. To stop recording, press the $\frac{\text{Menu}}{\text{OK}}$ button; otherwise, the audio continues to record until the camera runs out of memory.

If the currently displayed image already has an audio clip attached to it, the **Record Audio** sub-menu is displayed when you select **Record Audio**. This sub-menu lists these options:

- **Keep Current Clip**—Retains the current audio clip and returns to the **Playback Menu**.
- **Record New Clip**—Begins to record audio, replacing the previous audio clip.
- **Delete Clip**—Deletes the current audio clip and returns to the **Playback Menu**.

TIP: To hear audio clips, transfer the images to which they are attached to your computer and use the HP Photosmart Premier Software.

NOTE: **Record Audio** is not available for video clips because video clips already have audio recorded.

4 Transferring and printing images

Transferring images to a computer

TIP: You can also perform this task using a memory card reader (see **Using a memory card reader** on page 71).

1. Confirm that the HP Photosmart Software is installed on your computer (see **Install the software** on page 12). To transfer images to a computer that does not have the HP Photosmart Software installed on it, see **Using your camera without installing the HP Photosmart Software** on page 69.
2. Your camera came with a special USB cable for connecting the camera to a computer. Connect the larger end of that USB cable to the computer.
3. Open the door on the side of the camera nearest the lens and connect the smaller end of the USB cable to the USB connector on the camera.



4. Turn on the camera.

- **On Windows:** The HP Photosmart Software provides the download functionality. In the **Transfer Images from Camera/Card** screen, click **Start Transfer**. The images are transferred to the computer. When the **Image Action Summary** screen appears on the computer, you can disconnect the camera from the computer.
- **On Macintosh:** The application configured in Image Capture Preferences (HP Photosmart Mac or iPhoto) provides the download functionality. When the download is complete, you can disconnect the camera from the computer.

Printing images directly from the camera

You can connect the camera directly to any PictBridge-certified printer to print images. To determine if your printer is PictBridge-certified, look for the PictBridge logo on your printer.



1. Check that the printer is turned on. There should be no blinking lights on the printer or error messages displayed about the printer. Load paper into the printer, if needed.

- Using the USB cable that came with your camera, connect the larger end of the USB cable to the corresponding connector on the PictBridge-certified printer.

TIP: The PictBridge connector is usually located on the front of the printer.



- Turn your camera on and make sure the camera's **USB Configuration** setting is set to **Digital Camera** (see **USB Configuration** on page 63).
- Open the door on the side of the camera nearest the lens and connect the smaller end of the USB cable to the USB connector on the camera.
- When the camera is connected to the printer, a **Print Setup** menu displays on the camera. If you already selected images to print using the camera **Playback Menu**, the number of images selected is shown. Otherwise, **Images: ALL** is displayed.
- To change the settings in the **Print Setup** menu, use the ▲▼ buttons on the camera to select a menu option, then use the ◀▶ buttons on the camera to change the setting.
- When the settings are correct, press the $\frac{\text{Menu}}{\text{OK}}$ button on the camera to begin printing.



After connecting the camera to the printer, you can print the images you have selected for printing or all images in the camera.

TIP: Printing directly from the camera has the following limitation:

You cannot print video clips directly to a printer. Transfer these to the computer using the HP Photosmart Software (see **Transferring images to a computer** on page 55).




NOTE: If you connect the camera to a non-HP printer and encounter problems with printing, contact your printer manufacturer. HP does not provide customer support for non-HP printers.

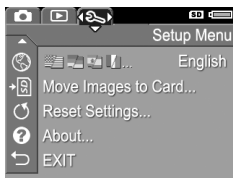
In addition to the method described in this section, you can also print images directly from the printer using the following method:



- If you have an optional memory card that has images or video clips stored on it that you want to print and your printer has a memory card slot, remove the optional memory card from the camera and insert it into the printer's memory card slot to print the images or video clips. If your printer can print video clips, you can insert the memory card directly in the printer's memory card slot and print the video clip. See your printer's manual for specific instructions.

5 Using the Setup Menu

The **Setup Menu** allows you to adjust a number of camera settings, such as the camera sounds, date and time, and the configuration of the USB.

1. While in **Live View**, press the **Live View/Playback**  /  button, and then press the $\frac{\text{Menu}}{\text{OK}}$ button.
2. Scroll to the **Setup Menu**  tab using the \blacktriangleleft \blacktriangleright buttons.



3. Use the \blacktriangleup \blacktriangledown buttons to scroll through the **Setup Menu** options.
4. Either press the $\frac{\text{Menu}}{\text{OK}}$ button to select a highlighted option and display its sub-menu, or use the \blacktriangleleft \blacktriangleright buttons to change the setting for the highlighted option without going to its sub-menu.
5. Within a sub-menu, use the \blacktriangleup \blacktriangledown buttons and then the $\frac{\text{Menu}}{\text{OK}}$ button to change the setting for the **Setup Menu** option.
6. To exit the **Setup Menu**, press the **Live View/Playback**  /  button. For other ways to exit a menu, see **Camera menus** on page 19.


Display Brightness

This setting allows you to adjust the brightness of the Image Display for the viewing conditions. You can use this setting to increase the brightness for harsh lighting environments, or reduce the brightness to extend battery life.

The default **Display Brightness** setting is **Medium**.

1. In the **Setup Menu** (page 59), select **Display Brightness**.

2. In the **Display Brightness** sub-menu, highlight the brightness level you prefer for the Image Display. The new setting is applied to the **Live View** screen behind the menu so you can see the effect the setting will have on the display brightness.

3. Press the  button to save the setting and return to the **Setup Menu**.

The new setting remains in effect until it is changed again, even when you turn the camera off.



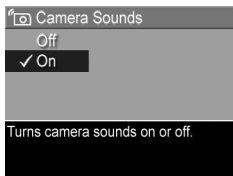
Camera Sounds

Camera sounds are the sounds that the camera makes when you turn it on, press a button, or take a picture. Camera sounds are not the audio sounds recorded with images or video clips.

The default **Camera Sounds** setting is **On**.

1. In the **Setup Menu** (page 59), select **Camera Sounds**.
2. In the **Camera Sounds** sub-menu, highlight **Off** or **On**.
3. Press the $\frac{\text{Menu}}{\text{OK}}$ button to save the setting and return to the **Setup Menu**.


The new setting remains in effect until it is changed again, even when you turn the camera off.

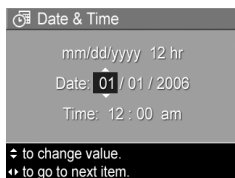


Date & Time

This setting allows you to set the date/time format, as well as the current date and time for the camera. This is usually done when you first set up the camera; however, you may need to re-set the date and time when you are travelling to different time zones, after the camera has been without power for an extended time, or if the date or time is incorrect.

The date/time format chosen will be used to display the date information in **Playback**. Also, the format chosen in this setting is what is used in the **Date & Time Imprint** feature (see **Date & Time Imprint** on page 36).


1. In the **Setup Menu** (page 59), select **Date & Time**.
2. In the **Date & Time** sub-menu, adjust the value of the highlighted selection by using the ▲▼ buttons.
3. Press the ◀▶ buttons to move to the other selections.
4. Repeat Steps 2 and 3 until the correct date/time format, date, and time are set.
5. Press the  button to save the setting and return to the **Setup Menu**.

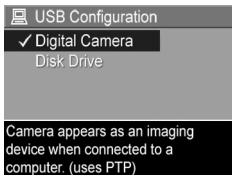


The date/time format setting remains in effect until it is changed again, even when you turn the camera off. The date and time settings also remain current as long as the camera batteries that are installed have a charge, or the batteries are removed for less than 10 minutes. If the camera is without batteries for a prolonged period, you may be prompted to update the date and time the next time you power on the camera.

USB Configuration

This setting determines how the camera is recognized when connected to a computer.



1. In the **Setup Menu** (page 59), select **USB**.
2. In the **USB Configuration** sub-menu, highlight one of these two choices:
 - **Digital Camera**—Causes the computer to recognize the camera as a digital camera using the Picture Transfer Protocol (PTP) standard. This is the default setting on the camera, and the setting needed to configure the camera for printing to a PictBridge-certified printer.
 - **Disk Drive**—Causes the computer to recognize the camera as a disk drive using the Mass Storage Device Class (MSDC) standard. Use this setting to transfer images to a Windows 2000, 98SE, or Me computer that does not have the HP Photosmart Software installed on it (see **Transferring images to a computer without HP Photosmart Software** on page 70). You may be unable to use this setting with a Windows 98 computer that does not have the HP Photosmart Software installed on it.
3. Press the  button to save the setting and return to the **Setup Menu**.



The new setting remains in effect until it is changed again, even when you turn the camera off.

Language

This setting allows you to set the language used in the camera interface, such as the text in menus.

1. In the **Setup Menu** (page 59), select .
2. In the **Language** sub-menu, use the ▲▼ and ◀▶ buttons to highlight the language you want to use.
3. Press the  button to save the setting and return to the **Setup Menu**.



The new setting remains in effect until it is changed again, even when you turn the camera off.

Move Images to Card


This option allows you to move images from the internal memory to an optional memory card that you have installed (see **Install and format a memory card (optional)** on page 11). This option is available in the **Setup Menu** if an optional memory card is installed in the camera and the internal memory contains at least one image.

1. In the **Setup Menu** (page 59), highlight **Move Images to Card...** and press the $\frac{\text{Menu}}{\text{OK}}$ button.
2. A confirmation screen appears in the Image Display.
 - If there is room on the memory card for all the images in internal memory, the confirmation screen asks if you want to move all the images.
 - If only some of the images will fit, the confirmation screen tells you how many images it can move and asks if you want to move them.
 - If no images can be moved to the memory card, the confirmation screen displays **CARD FULL**.
3. To move the images, highlight **Yes** and press the $\frac{\text{Menu}}{\text{OK}}$ button.

During the move, a progress bar is shown. All of the images that are successfully moved to the memory card are then deleted from the camera's internal memory. When the move is complete, you return to the **Setup Menu**.

Reset Settings

This option allows you to reset the camera to the factory default settings.

1. If you have an optional memory card in the camera, remove the memory card (see page 12).
2. In the **Setup Menu** (page 59), select **Reset Settings....**
3. In the **Reset All Settings?** sub-menu, highlight one of these two choices:
 - **Cancel**—Exits the menu without resetting any of the settings.
 - **Yes**—Resets all camera settings to their default value in the **Capture Menu** and **Setup Menu** (except **Date & Time**, **Language**, and **USB Configuration**).
4. Press the  button to reset settings and return to the **Setup Menu**.
5. If you removed an optional memory card in Step 1, replace the memory card.

6 Troubleshooting and support

This chapter contains information on the following topics:

- Resetting the camera (page 68)
- HP Photosmart Software, including system requirements for HP Photosmart Essential and Premier (page 69)
- Using the camera without installing the HP Photosmart Software (page 69)
- Possible problems, causes, and solutions (page 76)
- Error messages on the camera (page 88)
- Error messages on the computer (page 98)
- Getting assistance from HP, including web and phone support (page 100)

NOTE: For more information about solutions to problems mentioned here, as well as any other issues you might have with your camera or the HP Photosmart Software, see the HP Customer Care website:

www.hp.com/support.

Resetting the camera

If your camera does not respond when you press any buttons, try resetting the camera as follows:

1. Turn off the camera.
2. If you have an optional memory card installed, remove it. (Although removing an optional memory card is not necessary for performing the reset, it eliminates the memory card as a possible cause of the problem.)
3. Remove the batteries from the camera for 5 to 10 seconds.
4. Reinsert the batteries and close the Battery/Memory card door.
5. After verifying that the camera works without an optional memory card, turn off the camera and reinsert the card if you have one.

HP Photosmart Software

The HP Photosmart Software provides features for transferring images and video clips to your computer, as well as features for modifying stored images (remove red eyes, rotate, crop, resize, adjust image quality, and more).

The CD that came with your camera contains the following versions of HP Photosmart Software:

- HP Photosmart Premier Software (for Windows XP and Windows x64 systems with at least 128 MB of RAM). This version of the software includes some extra features such as playing audio and video clips.
- HP Photosmart Essential Software (for Windows 98, 98SE, and Me systems, Windows 2000 systems, and for Windows XP and x64 systems). This version does not have all of the extra features in the HP Photosmart Premier version.
- HP Photosmart Mac Software (for Macintosh systems).

To learn more about the software features and how to use them, see the Help feature in the HP Photosmart Software.

Using your camera without installing the HP Photosmart Software

You can still transfer images and video clips from the camera to your computer without installing the HP Photosmart Software. However, the process for transferring will be different, since normally the HP Photosmart Software handles this task. See the following section for details.

Transferring images to a computer without HP Photosmart Software

If you do not, or cannot, install HP Photosmart Software on your computer, there are three ways to transfer images from your camera to the computer:

- Connect your camera to the computer as a Digital Camera (Windows XP or Mac OS X only)
- Use a memory card reader
- Configure the camera as a disk drive

Connecting your camera as a digital camera

If you have a Windows XP system, or a Mac OS X system, simply connect the camera to your computer directly, and the operating system will launch a program to help you transfer images. Check that your camera **USB Configuration** in the **Setup Menu** is set to **Digital Camera** (see page 63), and connect the camera to your computer with the USB cable.

Using a memory card reader

If you are using a memory card in your camera, you can simply remove it from the camera and put it in a memory card reader (purchased separately). The memory card reader acts just like a floppy disk drive or CD-ROM drive. In addition, some computers and HP Photosmart printers have memory card slots built into them, and you can use these memory card slots as you would use a regular memory card reader to save images to the computer.

Transferring images to a Windows computer using a memory card reader

1. Remove the memory card from your camera and insert it into the memory card reader (or the memory card slot in your computer or printer).
2. Right-click on the **My Computer** icon on your desktop, then select **Explore** from the menu.
3. A screen appears that shows a list of disk drives under **My Computer**. The memory card shows up as a removable disk drive. Click on the + sign just to the left of the removable disk.
4. Two directories (folders) appear under the removable disk. Click on the + sign next to the folder called **DCIM**, and a subdirectory for your camera should appear. When you click on the subdirectory under **DCIM**, the list of your images should appear on the right side of the Explorer screen.

NOTE: You may have more than one folder in your **DCIM** directory. If you cannot locate the images, check all the folders in the **DCIM** directory.

5. Select all the images (in the **Edit** pull-down menu click on **Select All**), then copy them (in the **Edit** menu click on **Copy**).
6. Click on the **Local Disk** under **My Computer**. You are now working in your computer's hard disk drive.
7. Create a new folder under **Local Disk** (go to the **File** pull-down menu and click on **New**, then click on **Folder**. A folder called **New Folder** appears in the right side of the Explorer screen). While the text of this new folder is highlighted, you can type in a new name (for example, **Pictures**). To change the name of the folder later, you can simply right-click on the folder name, choose **Rename** from the menu that appears, then type in the new name.
8. Click on the new folder you just created, then go to the **Edit** pull-down menu and click on **Paste**.
9. The images you copied in Step 5 are pasted into this new folder on your computer's hard drive. To verify that the images were successfully transferred from the memory card, click on the new folder. You should see the same list of files in that folder that you saw when you looked at them on the memory card (Step 4).
10. When you have verified that the images were successfully transferred from the memory card to your computer, put the card back in your camera. To free up space on the card, you can either delete the images or format the card (under the **Delete** option in the **Playback Menu** in the camera).

NOTE: It is recommended that you format the card rather than delete the images because it will help prevent corrupted images or cards.








Transferring images to a Macintosh computer using a memory card reader

1. Remove the memory card from your camera and insert it into the memory card reader (or the memory card slot in your computer or printer).
2. Depending on your computer configuration and/or the version of the Mac OS you are running, an application called either Image Capture or iPhoto will launch automatically and guide you through the process of transferring images from your camera to your computer.
 - If the Image Capture application is launched, click on either the **Download Some** or **Download All** button to transfer the images to your computer. By default, the images will be put in the **Pictures** or **Movies** folder (depending on which kind of file they are).
 - If the iPhoto application is launched, click on the **Import** button to transfer the images to your computer. The images will be stored in the iPhoto application, so to access the images later, simply run iPhoto.
 - If no application launches automatically or if you want to copy the images manually, look on the desktop for a disk drive icon which represents the memory card, then copy the images from there to your local hard drive. For more information about how to copy files, visit Mac Help, the help system included with your computer.

Configuring the camera as a disk drive

You can set up your camera to function as a disk drive when it is connected to your computer, so you can transfer images without using the HP Photosmart Software.



NOTE: Recommended for Windows 2000, Me, and 98 SE computers. You may be unable to use this method with Windows 98 computers.

1. Set your camera to act as a **Disk Drive** (you only need to do this step once):
 - a. Turn the camera on, press the  button, then use the  button to navigate to the **Setup Menu** .
 - b. Use the  button to highlight the **USB** menu option, then use the  button to select **Disk Drive**.
 - c. Press the **Live View/Playback**  /  button to exit the **Setup Menu**.
2. Connect the camera to your computer using the USB cable.
3. At this point, the process is the same as described in **Using a Memory Card Reader** on pages 71, 73. On Windows computers, the camera will appear as a removable disk in the Windows Explorer screen. On Macintosh computers, either the Image Capture or iPhoto application will launch automatically.
4. When you have finished transferring images from the camera to the computer, simply disconnect the camera from the computer. If your computer is running Windows 2000 or XP and you get an **Unsafe Removal** warning, disregard the warning.

NOTE: On Macintosh computers, if either Image Capture or iPhoto do not launch automatically, look on the desktop for a disk drive icon with your camera's model number. For more information about how to copy files, visit Mac Help.

Problems and solutions








Problem	Possible Cause	Solution
The camera does not turn on.	You did not slide the lens cover far enough.	<ul style="list-style-type: none">• Slide the lens cover until it clicks.
	The batteries are functioning incorrectly, are dead, are installed incorrectly, are missing, or are the wrong type.	<ul style="list-style-type: none">• The charge in the batteries could be low or completely drained. Try installing new or recharged batteries.• Ensure that the batteries are installed correctly (see page 11).• Do not use ordinary Alkaline batteries. For best results, use Energizer Lithium AA or rechargeable NiMH AA batteries.

Problem	Possible Cause	Solution
The camera does not turn on (continued).	The optional memory card is not a supported card or is corrupted.	Ensure that the memory card is the proper type for your camera (see page 121). If the card is the proper type, remove the memory card and see if you can turn on the camera. If you can turn on the camera with the memory card removed, then the card is probably corrupted. Format the memory card with a computer and a card reader. If the camera still does not turn on, replace the memory card.
	The camera has stopped operating.	Reset the camera (see page 68).
The Power/Memory light is on but the Image Display is off.	The Image Display has shut down after one minute of inactivity.	Press the Live View/Playback  /  button to re-activate the Image Display.
	The camera may have experienced a transient problem.	Reset the camera (see page 68).
The Power/Memory light is on but the camera seems stuck and won't operate properly.	The camera may have experienced a transient problem.	Reset the camera (see page 68).



Problem	Possible Cause	Solution
I have to replace or recharge the batteries frequently.	Extended Image Display use for video recording, excessive flash use, or Display Brightness set to High , increases the rate of battery drain.	See Extending battery life on page 104.
	The NiMH batteries you are using were recharged incorrectly, or have drained on their own because they have not been used lately.	NiMH batteries are not fully charged when new, and they discharge over time whether or not they are installed in a camera. Batteries that are new or have not been charged recently must be recharged to reach full capacity (see page 109).
	Battery chemistry type is inappropriate for the way the camera is being used.	See Performance per battery type on page 106.
The camera does not respond when I press a button.	The camera is turned off or has shut down.	Turn on the camera, or turn it off and then on again.
	The batteries are drained.	Replace or recharge the batteries.

Problem	Possible Cause	Solution
The camera does not respond when I press a button (continued).	The camera is connected to a computer.	Most of the camera buttons do not respond when the camera is connected to a computer. If they respond, it is only to turn the Image Display on if it is off, or, in some cases, turn the Image Display off if it is on.
	The camera is processing an image.	Wait until the Power/Memory light turns solid green, indicating the camera has completed processing the previously taken image.
	The optional memory card is not a supported card or is corrupted.	Ensure that the memory card is the proper type for your camera (see page 121). If the card is the proper type, turn off the camera, remove the memory card, and turn on the camera. If the camera responds when you press a button, then the card is probably corrupted. Replace the memory card.
	The camera has stopped operating.	Reset the camera (see page 68).
A long delay occurs between pressing the Shutter button and the camera taking a picture.	The scene is dark and the camera is taking a long exposure.	<ul style="list-style-type: none"> • Use the flash. • If using flash is not possible, then use a tripod to keep the camera steady during the long exposure time.

Problem	Possible Cause	Solution
A long delay occurs between pressing the Shutter button and the camera taking a picture (continued).	The camera is using a flash setting with red-eye reduction.	It will take longer to take a picture with red-eye reduction. The shutter is delayed because of the additional flashes. In turn, make sure your subjects wait for the additional flashes.
The camera does not take a picture when I press the Shutter button.	You did not press the Shutter button hard enough.	Press the Shutter button all the way down.
	The internal memory or the optional memory card that is installed is full.	Transfer images from the camera to your computer, then format the internal memory or the memory card (page 11 and 49). Or replace the card with a new one.
	The optional memory card that is installed is locked.	With the camera turned off, remove the memory card and switch the locking tab on the card to the unlocked position.
	The flash is recharging.	Wait until the flash has recharged before taking another picture.
	The camera is still saving the last picture you took.	Wait a few seconds for the camera to finish processing the last image before taking another picture.

Problem	Possible Cause	Solution
<p>My image is blurry.</p>	<p>The light is low and the flash is set to Flash Off .</p>	<ul style="list-style-type: none"> • In dim light, the camera requires a longer exposure, and it is difficult to hold the camera steady for more than 1/60 of a second. Use a tripod to hold the camera steady, improve lighting conditions, or set the flash to Auto Flash  (see page 26). • Hold the camera with two hands as you gently press the Shutter button.
	<p>The subject was close to the camera, so the camera should have been set to the Macro  focus mode.</p>	<p>Set the camera to the Macro , focus mode and try taking the picture again (see page 28).</p>
	<p>The subject moved or you moved the camera while you took the picture.</p>	<ul style="list-style-type: none"> • Set the flash to Auto Flash  or Flash On  and set the shooting mode to Action . • Hold the camera with two hands as you press the Shutter button or use a tripod.

Problem	Possible Cause	Solution
My image is too bright.	The flash provided too much light.	<ul style="list-style-type: none"> • Turn the flash off (see page 26). • Move back from the subject.
	You used EV Compensation when you should not have.	Set EV Compensation to 0.0 (see page 38).
	A natural or artificial source other than the flash provided too much light.	<ul style="list-style-type: none"> • Try taking the picture from a different angle. • Avoid pointing the camera directly toward a bright light or reflective surface on a sunny day. • Decrease EV Compensation (see page 38).
	The scene had many dark objects, such as a black object on a dark background.	Decrease the EV Compensation (see page 38).
	The Display Brightness needs to be adjusted.	Set the Display Brightness in the Setup Menu to Low or Medium (see page 60).

Problem	Possible Cause	Solution
My image is too dark.	The flash was on, but the subject was too far away.	Make sure your subject is within the flash working distance (see page 119). If not, try using the Flash Off  setting (see page 26). This setting will require a longer exposure, so use a tripod.
	The scene had many light-colored objects, such as a white object on a light background.	Increase the EV Compensation (see page 38).
	There was not enough light.	<ul style="list-style-type: none"> • Wait for natural lighting conditions to improve. • Add indirect lighting. • Use the flash (see page 26). • Increase the EV Compensation (see page 38).
	A light is behind the subject.	<ul style="list-style-type: none"> • Use the Flash On  setting (see page 26) to brighten the subject. This is called fill-flash. • Increase the EV Compensation (see page 38).
	Your finger blocked the flash.	Be sure to move your fingers away from the flash when you take a picture.

Problem	Possible Cause	Solution
My image is too dark (continued).	The Display Brightness needs to be adjusted.	Set the Display Brightness in the Setup Menu to Medium or High (see page 60).
My image is grainy.	The ISO Speed setting was too high.	Use a lower ISO Speed setting (see page 41).
	The Image Quality setting was too low.	Use a higher Image Quality setting, such as 5MP Best , which has the lowest image compression (see page 34).
	There was not enough light.	<ul style="list-style-type: none"> • Wait for natural lighting conditions to improve. • Add indirect lighting. • Use the flash (see page 26).
	The camera was too warm when the picture was taken. The camera may have been on for a long time or stored in a hot location. As the camera gets hotter, images you take may have more noise, resulting in more graininess.	The effect will diminish as the camera cools. For best image quality, avoid storing the camera in very hot locations.

Problem	Possible Cause	Solution
Images are missing on my camera.	You installed a memory card after taking one or more images. When you install a memory card, images in internal memory are not visible.	Move the images from the internal memory to the memory card (see page 65) or remove the memory card.
Some menu options are grayed out in the Playback Menu.	The option is not available for the image.	This is normal behavior. For example, if a video clip is selected, you cannot rotate it.
	The image was taken with another camera and cannot be edited on this camera.	Transfer the images from the camera to your computer (see page 55), then view or modify them using the HP Photosmart Software.
The wrong date and/or time is shown.	The date and/or time was set incorrectly or the time zone has changed.	Reset the date and time by using the Date & Time option in the Setup Menu (see page 62).
	The batteries were drained or were removed from the camera for too long.	Reset the date and time by using the Date & Time option in the Setup Menu (see page 62).

Problem	Possible Cause	Solution
The camera responds very sluggishly when trying to review images.	A slow optional memory card (like an MMC card) that is installed or too many images on the card can affect processing times.	See Storage on page 121 and Memory capacity on page 123 for tips about memory cards.
	The camera may be processing an image.	Wait until the Power/Memory light turns solid green, indicating that the camera has finished processing.
I cannot transfer images from the camera to my computer.	The HP Photosmart Software is not installed on the computer.	Either install the HP Photosmart Software (see page 12), or see Using your camera without installing the HP Photosmart Software on page 69.
	The computer is unable to understand the Picture Transfer Protocol (PTP) standard.	Set your camera to act as a Disk Drive (see page 74).

Problem	Possible Cause	Solution
I receive an error message while transferring images from the camera to my computer.	A power surge or electrostatic discharge may have interrupted the transfer.	Close the HP Photosmart Software, disconnect the camera from the computer, and reset the camera (see page 68). Then, restart the image transfer process (see page 55).
I am having a problem installing or using the HP Photosmart Software.	Your computer does not have enough RAM to install the software.	<ul style="list-style-type: none"> • Refer to the computer requirements (see page 69). • Refer to the HP Customer Care website: www.hp.com/support.

Error messages on the camera

Message	Possible Cause	Solution
BATTERIES DEPLETED. Camera is shutting down.	Battery power is too low to continue operation.	Replace or recharge the batteries.
Batteries are too low to take pictures.	Battery power is too low to take a still picture or video, but you can still view images in Playback . This message appears sooner with Alkaline batteries than with NiMH or Lithium batteries.	Replace or recharge the batteries.
UNSUPPORTED CARD	The optional memory card that is installed in the memory slot is not a supported memory card.	Ensure that the memory card is the proper type for your camera (see page 121). If it is the proper type, try reformatting the memory card (see page 49).

Message	Possible Cause	Solution
CARD IS UNFORMATTED. Press OK to format card.	The optional memory card that is installed needs to be formatted.	Format the memory card by following the instructions on the Image Display (or remove the card from the camera if you do not want it to be formatted). Formatting the memory card will delete all files on the card.
CARD HAS WRONG FORMAT. Press OK to format card.	The optional memory card that is installed is formatted for a different device, such as an MP3 player.	Re-format the memory card by following the instructions on the Image Display (or remove the card from the camera if you do not want it to be re-formatted). Formatting the memory card will delete all files on the card.
Unable to Format.	The optional memory card that is installed is corrupted.	Replace the memory card, or if you have a memory card reader, try formatting the card on your computer. See your card reader documentation for instructions.
CARD LOCKED	The optional memory card that is installed is locked.	With the camera turned off, remove the memory card from the camera and switch the locking tab on the card to the unlocked position.

Message	Possible Cause	Solution
MEMORY FULL or CARD FULL	There is insufficient room to save more images in internal memory or on the optional memory card that is installed.	Transfer images from the camera to your computer, then delete all images in internal memory or on the memory card (see page 49). Or replace the card with a new one.
Memory/card too full to record audio.	There is insufficient room to record audio in internal memory or on the optional memory card that is installed.	Transfer images, video clips, and/or audio files from the camera to your computer, then delete enough files in internal memory or on the memory card to make enough room for the audio recording (see page 49). Or replace the card with a new one.
Insufficient space on card to rotate image. or Insufficient space in memory to rotate image.	There is insufficient room in internal memory or on the optional memory card to save a rotated image.	<ul style="list-style-type: none"> • Delete an image to free up memory space, then try rotating the image again. • Transfer images from the camera to your computer, then rotate the image using the HP Photosmart Software or another image editing package.

Message	Possible Cause	Solution
The image is too large to magnify.	The image was probably taken with another camera.	Transfer the image to your computer and resize it using the HP Photosmart Software.
The image is too large to rotate.	The image was probably taken with another camera.	Transfer the image to your computer and rotate it using the HP Photosmart Software.
CARD IS UNREADABLE	The camera is having trouble reading the optional memory card that is installed. The card may be corrupted or an unsupported type.	<ul style="list-style-type: none"> • Try turning the camera off and then back on. • Ensure that the memory card is the proper type for your camera (see page 121). If the memory card is the proper type, try re-formatting the card using the Format option in the Delete sub-menu of the Playback Menu (see page 49). If it will not format, it is probably corrupted. Replace the memory card.

Message	Possible Cause	Solution
Unknown image error. Unable to complete request.	The camera could not complete the image modification you requested.	<ul style="list-style-type: none"> • Try modifying the image again. • If the same message displays, transfer the image to your computer and modify it using the HP Photosmart Software.
PROCESSING...	The camera is processing data, such as saving the last picture you took.	If you are in Live View , wait a few seconds for the camera to finish processing before taking another picture or pressing another button.
CHARGING FLASH...	The camera is recharging the flash.	It takes longer to charge the flash when the battery is low. If you see this message a lot, you may need to replace or recharge the battery.

Message	Possible Cause	Solution
ERROR SAVING IMAGE. or ERROR SAVING VIDEO.	The optional memory card that is installed was removed before the camera finished writing to the card or was half-locked.	<ul style="list-style-type: none"> • Always wait until the Power/Memory light stops blinking before removing the memory card from the camera. • With the camera turned off, remove the memory card and check to see if the locking tab on the edge of the card is fully in the unlocked position.
Cannot display image <filename>.	The image was taken with another camera or the image file was corrupted when the camera was shut down improperly.	<ul style="list-style-type: none"> • The image may still be okay. Transfer the image to a computer and try opening it with the HP Photosmart Software. • Do not remove the memory card when the camera is turned on.
Camera has experienced an error. or Camera has experienced an error and is shutting down.	The camera may have experienced a transient problem.	Turn the camera off, if it is on, and then on again. If that does not fix the problem, try resetting the camera (see page 68). If the problem persists, note the error code and then call HP Support (see page 100).

Message	Possible Cause	Solution
Unknown USB device.	The camera is connected to a USB device that it does not recognize.	Make sure that the camera is connected to a supported printer or computer.
Unsupported printer	The printer is an unsupported device.	Connect the camera to a PictBridge-certified printer. Or connect the camera to a computer and print from there instead.
Unable to communicate with printer.	There is no connection between the camera and printer.	<ul style="list-style-type: none"> • Check that the printer is turned on. • Make sure the cable is connected between the printer and the camera. If that does not work, turn off the camera and disconnect it from the USB cable. Turn the printer off and then on again. Re-connect the camera and turn it on.
Unable to Print. Error reading image file.	The image file may be corrupt, or too large.	<ul style="list-style-type: none"> • Turn off the camera. Re-connect the camera and turn it on. • If that does not work, transfer the image file to your computer and try printing the image file from the computer.

Message	Possible Cause	Solution
No printable images in memory. or No printable images on card.	The camera has no still images. Video clips cannot be printed directly from the camera.	Disconnect the camera from the printer, then take still images before reconnecting the camera to the printer.
Cannot print video clips.	You tried to select video clip for printing. Video clips cannot be printed from the camera.	If your printer supports printing video clips, transfer the video clip to your computer and print them from your computer.
Printer top cover is open.	The printer is open.	Close the top cover of the printer.
Incorrect or missing print cartridge. or Incorrect or missing print head.	The printer cartridge is the incorrect model or is missing.	Install a new printer cartridge, turn the printer off, then turn it back on.
The selected combination of paper type and size is not supported.	You are trying to print a picture larger than the paper size, you are trying to print borderless prints on plain paper, or your printer does not support borderless prints.	Try selecting a smaller print size, or try using photo paper to make borderless prints.

Message	Possible Cause	Solution
There is a problem with the printer's ink.	The ink cartridge may be low or the ink cartridge may not be supported for the printer.	Install a supported printer cartridge, turn the printer off, then turn it back on.
Low ink.	The printer cartridge is running low on ink.	Replace the ink cartridge. You may be able to print some images using the current cartridge, but their color and quality may not be of high quality.
Printer is out of ink.	The printer cartridge is empty.	Replace the ink cartridge.
Printer ink cover is open.	The printer ink cover is open	Close the ink cover.
Paper error.	The paper tray may be empty or there may be a paper jam.	<ul style="list-style-type: none"> • Examine the paper tray. If it is empty, refill it. • Examine the paper path for a paper jam. If you find one, clear it.
Paper is not loaded correctly in the printer.	The paper is not aligned correctly in the paper tray.	Realign the paper in the tray.
Printer has a paper jam.	There is a paper jam.	Turn off the printer. Completely clear the paper jam, then turn the printer back on.

Message	Possible Cause	Solution
Printer is out of paper.	The printer is out of paper.	Load paper into the printer, and then press the OK or Continue button on the printer.
Printer error.	There is a problem with the printer.	Turn the printer off, then on again. Press the $\frac{\text{Menu}}{\text{OK}}$ button on the camera. Complete the print request again.

Error messages on the computer

Message	Possible Cause	Solution
Cannot Connect To Product	The camera is turned off.	Turn on the camera.
	The camera is not working correctly.	Try connecting the camera directly to a PictBridge-certified printer, and print an image. This will verify that the optional memory card, USB connection, and the USB cable are functioning correctly.
	The cable is not connected correctly.	Make sure that the cable is firmly connected to the computer and camera.
	The camera is set to the Digital Camera setting, but the computer cannot recognize the camera as a digital camera.	Change the USB setting to Disk Drive (see page 63). The camera then appears as another disk drive on the computer so you can copy the image files to the computer.
	The camera is connected to the computer through a USB hub, and your USB hub is not compatible with the camera.	Connect the camera directly to a USB port on the computer.

Message	Possible Cause	Solution
Cannot Connect To Product (continued)	The optional memory card that is installed is locked.	With the camera turned off, remove the memory card and switch the locking tab on the card to the unlocked position.
	The USB connection failed.	Reboot the computer.
Could Not Send To Service	The computer is not connected to the Internet.	Make sure your computer is online.

Product support

Helpful websites

Camera tips, product registration, newsletter subscriptions, driver and software updates, support alerts	www.hp.com www.hp.com/photosmart (English only)
Customers with disabilities	www.hp.com/hpinfo/community/accessibility/prodserv (English only)
HP Customer Care, guidelines for phone support	www.hp.com/support

Getting assistance

In order to get the best from your HP product, please consult the following standard HP support offerings:

1. Consult the product documentation that came with the product.
 - Review **Problems and solutions** on page 76.
 - Review the electronic Help section within the software.
2. Visit the HP online support at **www.hp.com/support** or contact the store where you purchased this camera.

HP online support is available to all HP customers. It is the fastest source of up-to-date product information and expert assistance, including:

 - Fast e-mail access to qualified online support specialists
 - Software and driver updates for your product

- Valuable product and troubleshooting information for technical issues
 - Proactive product updates, support alerts, and HP newsletters (available when you register your product)
3. HP support by phone
Support options and fees vary by product, country and language. For a list of support conditions and phone numbers, visit **www.hp.com/support**.
 4. Post-warranty period
After the limited warranty period, help is available online at **www.hp.com/support**.
 5. Extending or upgrading your warranty
If you would like to extend or upgrade your camera's warranty, please contact the store where you bought the camera or check the HP Care Pack offers at **www.hp.com/support**.
 6. If you already purchased an HP Care Pack Service, please check the support conditions on the contract.

A Managing batteries

Your camera uses two AA batteries. For best results, use Energizer Lithium AA or rechargeable Nickel Metal Hydride (NiMH) AA batteries. Alkaline batteries provide far less battery life than Lithium or NiMH batteries.

Top points about batteries

- The first time that you use a set of NiMH batteries, be sure that you fully charge them before using them in the camera.
- If you do not intend to use your camera for extended periods of time (more than two months), HP recommends that you remove the batteries.
- When inserting the batteries in the camera, always be sure to orient the batteries as directed by the markings in the battery compartment. If the batteries are inserted improperly, the compartment door may close but the camera will not operate.
- Never use batteries of different chemistries (for example, a Lithium battery and a NiMH battery), brands, or ages. This can cause erratic camera behavior, as well as battery leakage. Always use two identical batteries of the same chemistry, brand, and age.

- The performance of all batteries will decrease as the temperature drops. For best performance in cold environments, use Energizer Lithium AA batteries. NiMH batteries may also provide acceptable low temperature performance. To improve the performance of all battery types, keep the camera and/or batteries stored in a warm inside pocket when in a cold environment.

Extending battery life

Here are some tips for extending battery life:

- Change the **Display Brightness** setting in the **Setup Menu** to **Low**, so that the Image Display consumes less power when in **Live View** (see **Display Brightness** on page 60).
- Minimize the use of flash by setting your camera to **Auto Flash**, instead of **Flash On** (see **Setting the flash** on page 26).
- Turn the camera off between shots.

Safety precautions for using batteries

- Do not charge any batteries other than NiMH batteries in the optional HP Photosmart Quick Recharger.
- Do not place a battery in fire or heat the battery.
- Do not connect the positive terminal and the negative terminal of a battery to each other with any metal object (such as wire).
- Do not carry or store a battery together with coins, necklaces, hairpins, or other metal objects. Placing an NiMH battery in contact with coins is especially dangerous to you! To avoid injury, do not drop this battery into a coin-filled pocket.

- Do not pierce the battery with nails, strike the battery with a hammer, step on the battery, or otherwise subject it to strong impacts or shocks.
- Do not solder directly onto the battery.
- Do not expose the battery to water or salt water, or allow the battery to get wet.
- Do not disassemble or modify the battery. The battery contains safety and protection devices, which, if damaged, may cause the battery to generate heat, explode, or ignite.
- Immediately discontinue use of the battery if, while using, charging, or storing the battery, the battery emits an unusual smell, feels excessively hot (note that it is normal for the battery to feel warm), changes color or shape, or appears abnormal in any other way.
- In the event the battery leaks and the fluid gets into your eye, do not rub the eye. Rinse well with water and immediately seek medical care. If left untreated, the battery fluid could cause damage to the eye.

Performance per battery type

The following table shows how Alkaline, Lithium, and rechargeable NiMH batteries perform in different types of use scenarios.

Type of use	Alkaline	Lithium	NiMH
Most economical if you take more than 30 pictures per month	Poor	Fair	Good
Most economical if you take fewer than 30 pictures per month	Fair	Good	Fair
Heavy use of flash, frequent pictures	Poor	Good	Good
Heavy use of video	Poor	Good	Good
Heavy use of Live View	Poor	Good	Good
Overall battery life	Poor	Good	Fair
Low temperature/winter use	Poor	Good	Fair
Infrequent use	Fair	Good	Fair
Want to recharge batteries	No	No	Good

Number of shots per battery type

The following table shows the minimum, maximum, and average number of shots that may be obtained using Alkaline, Lithium, and rechargeable NiMH batteries.






Battery type	Minimum number of shots	Maximum number of shots	Approximate number of shots under average use
Alkaline	70	120	100
NiMH	110	280	190
Lithium	260	490	340

In the above table, please note that in all cases, four pictures are taken per session with at least a 5 minute break between sessions. In addition:

- The minimum number of shots is obtained with extensive use of **Live View** (30 seconds per picture), **Playback** (15 seconds per picture), and **Flash On**.
- The maximum number of shots is obtained with minimal use of **Live View** (10 seconds per picture) and **Playback** (4 seconds per picture). Flash is used on 25% of shots.
- The average number of shots is obtained with **Live View** used at 15 seconds per picture and **Playback** used for 8 seconds per picture. Flash is used on 50% of shots.
- The average number of shots obtained using Alkaline batteries was measured using High Drain Alkaline batteries.

Power indicators

The following icons may be displayed on the status screen, in **Live View**, in **Playback**, and when the camera is connected to a computer or printer. If no icon is displayed, this means that the camera has sufficient battery power to function normally.

Icon	Description
	Batteries have more than 70 percent energy remaining.
	Batteries have 30 to 70 percent energy remaining.
	Batteries have 10 to 30 percent energy remaining.
	Batteries' level is low. Only Playback mode available: camera will not take pictures.
 Blinking	Batteries are depleted. Camera will power down.

Recharging NiMH batteries

NiMH batteries can be recharged with the optional HP Photosmart battery quick recharger. For information about this optional accessory, see **Appendix B, Purchasing camera accessories**, starting on page 113.

The following table shows the average time it takes to recharge NiMH batteries that have been fully discharged when the batteries are being charged in the HP quick recharger. The table also notes the signal you will see when the batteries have been recharged.

Average charge time	Signal when charging has completed
1 hour for 2 batteries. About 2 hours for 4 batteries	Light on quick recharger turns on solid green.

Some things to keep in mind when using NiMH batteries are as follows:

- The first time that you use a set of NiMH batteries, be sure that you fully charge them before using them in the camera.
- You may notice that the first several times you use NiMH batteries, the battery life seems shorter than what you expect. Performance will improve and become optimal after the batteries have been charged and then discharged (used) completely four or five times. You can use the camera normally to discharge the batteries during this conditioning period.
- Always recharge both NiMH batteries at the same time. One low-charged battery will reduce the battery life for the other battery in the camera.

- NiMH batteries discharge when not in use, whether they are installed in a camera or not. If they have not been used for more than two weeks, recharge them before using them again. Even if you are not using your batteries, it is a good idea to charge them every six months to a year to prolong their useful life.
- The performance of all rechargeable batteries, including NiMH, will degrade over time, especially if they are stored and used at high temperatures. If battery life has become unacceptably reduced over time, replace the batteries.
- The quick recharger may be warm while operating and charging NiMH batteries. This is normal.
- NiMH batteries can be left in the quick recharger for any period of time without harm to the batteries. Always store charged batteries in a cool location.

Safety precautions for recharging NiMH batteries

- Do not charge any batteries other than NiMH batteries in the quick recharger.
- Insert the NiMH batteries in the correct orientation in the quick recharger.
- Use the quick recharger in a dry location only.
- Do not charge NiMH batteries in a hot location, such as in direct sunlight or near a fire.
- When recharging NiMH batteries, do not cover the quick recharger in any way.
- Do not operate the quick recharger if the NiMH batteries appear damaged in any way.
- Do not disassemble the quick recharger.
- Unplug the quick recharger from the electrical outlet before cleaning the quick recharger.

Sleep time-out for power conservation

To conserve battery power, the Image Display turns off automatically if there is no button activity for 30 seconds. When the camera is connected to a computer, the Image Display turns off automatically 10 seconds after the connection is made. When the camera is in this sleep state, pressing any button will wake up the camera again. If no buttons are pressed during the sleep state, the camera will turn off after an additional 5 minutes.

B Purchasing camera accessories

You can purchase additional accessories for your camera.

For information on your HP E327 camera and compatible accessories, go to:

- www.hp.com/photosmart (US)
- www.hp.ca/photosmart (Canada)
- www.hp.com (all other countries)

To purchase accessories, visit your local retailer or order online at:

- www.hpshopping.com (US)
- www.hpshopping.ca (Canada)
- www.hp.com/eur/hpoptions (Europe)

Below are some accessories for this digital camera. These camera accessories may not be available in all regions.

- **HP Photosmart Quick Recharger Kit for AA Battery Cameras**
(L1815A)

One hour recharging of AA NiMH batteries, plus stylish protection for your HP Photosmart E-series camera.

Includes all you need to provide a home away from home for your camera: an ultra-lightweight portable recharger, a camera case, and four high-capacity rechargeable AA NiMH batteries.

- **HP Photosmart SD memory cards** (For important information about supported types of memory cards, see **Storage** on page 121.)
 - HP Photosmart 128MB SD memory card (L1873A/L1873B)
 - HP Photosmart 256MB SD memory card (L1874A/L1874B)
 - HP Photosmart 512MB SD memory card (L1875A/L1875B)
 - HP Photosmart 1GB SD memory card (L1876A / L1876B)
- **HP Photosmart camera cases**

Protect your camera with a compact padded case. Includes neck strap, belt loop, and an organizer for memory cards. Available in either black (Q6216A) or silver (Q6217A).

C Caring for your camera

Your HP camera has been designed to withstand most conditions under which you would normally take pictures. However, you should take some basic precautions when using your camera (see **Basic camera care** below) and clean it regularly (see **Cleaning the camera** on page 117).

Basic camera care

You should take some basic precautions to ensure that your camera continues to perform optimally.

- Before storing the camera, wipe moisture from the camera body with a clean, dry, soft cloth.
- Whenever you go from a cold location to a warm one (from a snowy mountain to a hotel room, for example), wrap the camera tightly in a plastic bag. Let the camera adapt to the warmer temperature for about an hour before removing it from the plastic bag. Doing so will help prevent condensation inside the camera and extend its life.
- Store your digital camera in a cool, dry place away from windows, furnaces, and damp basements.
- Always slide the lens cover over the lens when you are not using your camera. This precaution not only protects the lens from dust and scratches but also conserves battery life.

- Always turn the camera off when you are not using it to protect the lens. When the camera is off, the camera lens retracts and the lens wink mechanism closes over the lens to protect it.
- Clean your camera body, Image Display, and lens regularly with cleaning supplies designed specifically for cameras. See **Cleaning the camera** on page 117.
- Keep your camera and accessories in a padded case with a good strap for easy transport. Most HP digital camera cases have built-in pockets for batteries and memory cards. See **Purchasing camera accessories** on page 113.
- Always keep your camera equipment with you as carry-on when you travel. Never check it with suitcases, since rough handling and extreme weather can damage it.
- Never open your camera's casing or attempt to repair the camera yourself. Touching the inside of a digital camera can result in electrical shock. Contact an authorized HP Service Center for repairs.

NOTE: For information about handling batteries safely, see **Appendix A, Managing batteries**, starting on page 103.

Cleaning the camera

TIP: If your camera needs cleaning beyond what is described in this section, take the camera to a camera store that specializes in cleaning digital cameras.

Cleaning your camera not only keeps it looking its best, it also improves the quality of your photos. It is especially important to clean the lens regularly because dust particles and fingerprints can mar the quality of any photos you take.

To clean your camera, you will need lens-cleaning tissue and a soft, dry, lint-free cloth commonly available at photo-specialty stores. You can also purchase these items in a camera-cleaning kit.

NOTE: You should purchase lens-cleaning tissue that has not been chemically treated. Some chemically treated lens tissue can cause scratching of the lens and Image Display.

Cleaning the camera lens

Do the following to remove any fingerprints, dust, and so forth that have accumulated on the lens.

1. Slide the lens cover to uncover the lens.
2. Blow gently on the lens to remove dust.
3. Lightly wipe the lens with lens-cleaning tissue, using a circular motion.

Cleaning the camera body and image display

Do the following to remove any fingerprints, dust, moisture, and so forth that have accumulated on the camera body and Image Display.


1. Blow gently on the Image Display to eliminate dust.
2. Wipe the entire surface of the camera and the Image Display using a clean, dry, soft cloth.

NOTE: You can also wipe the Image Display with lens-cleaning tissue.

D Specifications

Feature	Description
Resolution	Still pictures: <ul style="list-style-type: none">• 5.19 MP (2654 by 1955) total pixel count• 4.92MP (2560 by 1920) effective pixel count Video clips: <ul style="list-style-type: none">• QVGA 256 by 192 at 24 frames per second
Sensor	Diagonal 7.2 mm (1/2.5-inch, 4:3 format) CCD
Color depth	36 bit (12 bits by 3 colors)
Lens	Focal length: <ul style="list-style-type: none">• 7.7 mm• 35 mm equivalent, approximately 46.1 mm F-Number: f/3.5
Lens threads	None
Zoom	4x digital zoom
Focus	Fixed focus. Focus ranges: <ul style="list-style-type: none">• Normal (default)—1 m (39 in) to infinity• Macro—60 cm to 1m (24 to 39 in)
Shutter speed	1/2000 to 2 seconds
Tripod mount	Yes
Built-in flash	Yes, 6-second typical recharge time
Flash working range	Maximum with ISO Speed set to Auto : 5 meters (16.5 feet)
External flash	No

Feature	Description
Flash settings	Flash Off, Auto Flash (default), Red-Eye, Flash On
Image Display	1.8-inch color active matrix TFT LTPS with backlight, 153,600 pixels (640 by 240)
Image capture options	<ul style="list-style-type: none"> • Still (default) • Self-Timer—still picture or video clip taken after 10-second delay • Video—24 frames per second (includes audio), until the camera runs out of memory
Audio capture	<ul style="list-style-type: none"> • Still pictures—audio clip length is 30 seconds or until the camera runs out of memory, whichever comes first • Video clips—audio is recorded automatically
Shooting modes	Auto (default), Action, Landscape, Portrait, Sunset
Image Quality settings	<ul style="list-style-type: none"> • 5MP Best • 5MP (default) • 3MP • 1MP • VGA
Date & Time Imprint settings	Off (default), Date Only, Date & Time
EV Compensation settings	Can be set manually from -2.0 to +2.0 EV (Exposure Value) in 1/3 EV increments.
White Balance settings	Auto (default), Sun, Shade, Tungsten, Fluorescent
ISO Speed settings	Auto (default), 100, 200, 400

Feature	Description
Compression format	<ul style="list-style-type: none"> • JPEG (EXIF) for still images • EXIF2.2 for still images with embedded audio • MPEG1 for video clips
Storage	<ul style="list-style-type: none"> • 16MB internal flash memory • Slot for memory card • This camera supports both standard and high-speed HP-branded Secure Digital (SD) and MultiMediaCard (MMC) memory cards 16MB and larger. Only MMC cards that have been verified compliant to the MultiMediaCard specification are supported. Compliant MMC memory cards have the  MultiMediaCard logo on the card or package. While other SD and MMC cards may work in your camera, only HP-branded cards are supported. • SD cards are recommended, as they are faster than MMC cards at reading and writing data. • This camera supports memory cards up to 1GB. A high capacity card does not affect camera performance. • The number of images that can be saved in memory depends on the Image Quality settings (see Memory capacity on page 123).

Feature	Description
Power	<p>Typical power usage: 1.8 Watts with Image Display on. 3.6 Watts maximum power usage. Power sources can be either:</p> <ul style="list-style-type: none"> • Two non-rechargeable AA Lithium batteries, or • Two rechargeable AA NiMH batteries. <p>Rechargeable batteries can be recharged in the optional HP Photosmart Quick Recharger. Average recharging time of NiMH batteries is provided in the section Recharging NiMH batteries on page 109.</p>
Standards	<ul style="list-style-type: none"> • PTP transfer (15740) • MSDC transfer • JPEG • MPEG1 level 1 • DPOF 1.1 • EXIF 2.2 • DCF 1.0 • DPS
Interfaces	USB mini B connector to a computer or PictBridge-certified printer
External body dimensions	99.3 mm (L) by 32 mm (W) by 52.6 mm (H) 3.91 in (L) by 1.40 in (W) by 2.07 in (H)
Weight	110 grams (0.23 pounds) without battery
Temperature range	<p>Operational: 0 to 50° C (32 to 122° F) at 15 to 85% relative humidity</p> <p>Storage: -30 to 65° C (-22 to 149° F) at 15 to 90% relative humidity</p>

Memory capacity

The following table lists the approximate number and average size of still images that can be stored in the internal memory in the camera when the camera is set to different **Image Quality** settings available in the **Capture Menu**.

NOTE: Not all 16MB of internal memory is available for storing images, because some memory is used for internal camera operations. Also, the actual file sizes and number of still images that can be stored in the internal memory in the camera or on an optional memory card will vary, depending on the content of each still image and the length of the recorded audio clip.

5MP Best	8 images (1.2MB each)
5MP (default)	10 images (1.0MB each)
3MP	18 images (600KB each)
1MP	21 images (500KB each)
VGA	95 images (120KB each)

NOTE: The values shown are for images without audio clips.

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