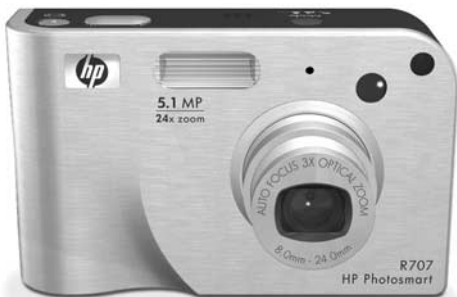




HP Photosmart R707 Digital Camera with HP Instant Share

User's Manual



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Chapter 1: Getting Started

Congratulations on your purchase of this HP Photosmart digital camera! This camera has many features to enhance your picture-taking experience, including HP Adaptive Lighting Technology, in-camera red-eye removal, 10 shooting modes (including panorama), HP Image Advice, **HP Instant Share™**, direct printing capability, manual and automatic controls, on-camera Help, and an optional camera dock.

With **HP Instant Share**, you can easily select images in your camera to be automatically sent to your favorite destinations (such as e-mail addresses and online albums) the next time you connect the camera to your computer. Your friends and family can easily receive and view your pictures in e-mail without being burdened by large file attachments. And with the direct printing capability, you can easily select images in your camera to be automatically printed the next time you connect the camera to your computer or directly to any HP Photosmart printer or PictBridge-compatible printer without ever connecting to your computer.

To further enhance your experience, you may purchase an HP Photosmart R-series dock. The camera dock allows you to easily transfer images to a computer, send images to a printer or television, and recharge the camera's battery plus a spare. The dock also provides a convenient home for your camera.



Setup

NOTE 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 21.

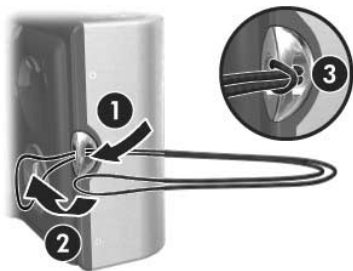
Installing the camera dock insert (Optional)

If you buy the HP Photosmart R-series dock, you will notice one or more clear dock inserts included in the box with the dock. When setting up the dock for use with this camera, make sure you use the dock insert that has the **GREEN** sticker on it. Follow the instructions in the dock User's Manual to connect the dock insert to the camera dock.



Attaching the Wrist Strap

Attach the wrist strap to the mount on the side of the camera as shown.



Installing a Memory Card (Optional)

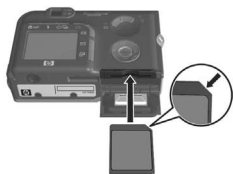
If you do not have a memory card, skip this section and go on to the next section, **Installing the Battery** on page 14. Your camera contains internal memory that allows you to store images and video clips. However, you can use a memory card (purchased separately) instead to store images and video clips. For more information about supported memory cards, see **Storage** on page 179.

When you install a memory card in the camera, all new images and video clips are stored on the card. The camera's internal memory is only used when there is no memory card in the camera.

- 1 Hold the camera with the bottom facing up, and the front of the camera facing you. Then slide the Battery/Memory card door on the bottom of the camera away from you, toward the back of the camera.



- 2 Insert the memory card in the smaller slot with the notched side of the card going in first, as shown. Make sure the memory card snaps into place.



- 3 Leave the Battery/Memory card door open and go on to the next section, **Installing the Battery** on page 14.

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.

Installing the Battery

Your camera can use either a rechargeable HP Photosmart R07 lithium ion battery (L1812A) or a disposable Duracell® CP1 battery.

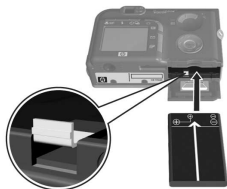
NOTE If a rechargeable battery was shipped with your camera, it will be partially charged, but you should fully charge it before using it the first time. You can charge the battery while it is in the camera. See **Charging the Battery** on page 16.

- 1 If the Battery/Memory card door is already open, skip this step and go on to step 2.

Hold the camera with the bottom facing up, and the front of the camera facing you. Then slide the Battery/Memory card door on the bottom of the camera away from you, toward the back of the camera.



- 2 Insert the battery in the larger slot as shown, and push it in until the latch catches.
- 3 Close the Battery/Memory card door by pushing the door down and then sliding the door toward the front of the camera until the door latches.



To remove the battery from the camera, first turn the camera off. Then open the Battery/Memory card door, release the battery latch, tilt the camera, and the battery will slide out of its slot.

Attaching the Ferrite to the AC Adapter Cord

A ferrite is included in the box with your camera. This ferrite prevents your camera from emitting radio frequency energy that might interfere with the reception of your radio, television, or other electronic devices which might be near the camera. The ferrite will not degrade the performance or safety of the camera.



Attach the ferrite to the thin HP AC adapter cord (the cord that attaches to the camera, not the cord that attaches to the wall) in the following way:

- 1 Wrap the cord around the ferrite so that the cord passes through the ferrite two times (as shown here).
- 2 Adjust the cord so that the edge of the ferrite is 10 cm (4 inches) from the end of the connector that connects to the camera (or camera dock).
- 3 Close the ferrite so that it snaps snugly into place around the cord.




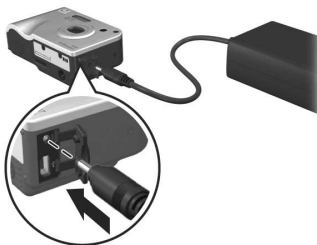
Charging the Battery

NOTE This section tells how to charge a battery in the camera.

You can also charge the battery in the extra battery bay of the camera dock or in the HP Photosmart Quick Recharger (see **Appendix B: Purchasing Camera Accessories** on page 173).

If the battery you installed is a disposable CP1 battery, you can skip this step. If the battery you installed is a rechargeable lithium ion battery, do the following.

- 1 Plug the power cord into the HP AC adapter. If more than one power cord is in the box, use the cord that is appropriate for power outlets in your country. Plug the other end of the power cord into an electrical outlet.
- 2 Open the small rubber door on the side of the camera.
- 3 Attach the thin cord from the AC adapter to the power adapter connector  on the side of the camera as shown. The Power/Memory light on the back of the camera will start blinking to show that the battery is charging.



The rechargeable lithium ion battery will usually charge fully in 5-7 hours. When the Power/Memory light stops blinking, the battery is fully charged, and you can then unplug the power adapter from the camera. You can continue to use the camera while the battery is being charged by the power adapter.

NOTE The camera may get warm while it is charging the battery, as well as after prolonged use under battery power. This is normal.

NOTE Digital cameras use batteries at a much faster rate than film cameras. Battery life in digital cameras can be measured in hours and minutes of use rather than the years more typical of film cameras. Battery life may also vary dramatically from one user to another, depending on what modes the camera is being used in most frequently. For hints on optimizing battery performance, see **Appendix A: Managing Batteries** on page 163.


Turning on Power

Turn the camera on by sliding the ► ON/OFF switch to the right and then releasing it.

The lens extends and the Power/Memory light on the back of the camera turns on solid green.

Choosing the Language

The first time you turn the camera on, the following screen appears and prompts you to choose a language.

- 1 Scroll to the language that you want by using the ▲ ▼ buttons on the **Controller** .
- 2 Press the **Menu/OK** button to select the highlighted language.



NOTE If you need to change the language later, you can do this with the **Language** setting in the **Setup** menu. See **Chapter 6: Using the Setup Menu** on page 115.

Setting 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 when viewing the image in the **Image Info** screen (page 92), in the **Playback** menu screen (page 86), or on your computer. You can also choose to have the date and time imprinted on the visible image (see **Date & Time Imprint** on page 76).

The first time you turn the camera on, a **Date & Time** screen appears after you choose the language, prompting you to set the date and time.



- 1 Adjust the value of the highlighted selection using the ▲ ▼ buttons.
- 2 Press the ◀ ▶ buttons to move to the other selections.
- 3 Repeat steps 1 and 2 until the correct date/time format, date, and time are set.
- 4 Press the **Menu/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.
- 5 If the date and time are correct, press the **Menu/OK** button to select **Yes**.

If the date and time are incorrect, press the ▼ button to highlight **No**, and then press the **Menu/OK** button. The **Date & Time** screen appears again. Repeat steps 1 through 5 to set the correct date and time.

NOTE 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 6: Using the Setup Menu** on page 115.

Installing the Software

The HP Image Zone software allows you to transfer images from the camera, and then view, edit, print, or e-mail them. It also allows you to configure the **HP Instant Share** menu on the camera.

NOTE If you do not install the HP Image Zone software, you can still use the camera, but certain features will be affected. For details, see **Using Your Camera without Installing the HP Image Zone Software** on page 125.

Windows

For the **HP Instant Share** component of the HP Image Zone software to function properly on your Windows computer, you must have installed at least Internet Explorer 5.01 on Windows 2000 or XP, or Internet Explorer 5.01 Service Pack 2 on Windows 98, 98 SE, or Me.

- 1 Close all programs and temporarily disable any virus protection software running on your computer.
- 2 Insert the HP Image Zone software CD into the CD drive of your computer. Follow the instructions in the installation screen that automatically appears.

NOTE If the installation screen does not appear, click **Start**, click **Run**, type **X:\Setup.exe**, where **X** is the letter of your CD drive, then click **OK**.

Your Windows CD may also include bonus software from other manufacturers. To install any bonus software:

- 1 Click **Start**, click **Run**, type **X:\Bonus\Setup.exe**, where **X** is the letter of your CD drive, then click **OK**.
- 2 Follow the on-screen instructions to install the software.

Macintosh

- 1 Close all programs and temporarily disable any virus protection software running on your computer.
- 2 Insert the HP Image Zone software CD into the CD drive of your computer.
- 3 Double-click the CD icon on the computer desktop.
- 4 Double-click the installer icon, and then follow the on-screen instructions to install the software.

NOTE Before you can transfer images from the camera to your Macintosh computer with the HP Image Zone software, or to take advantage of the **HP Instant Share** functionality, you must first change the **USB Configuration** setting to **Disk Drive** on the camera. See **Chapter 6: Using the Setup Menu** on page 115.

Your Macintosh CD may also include bonus software from other manufacturers. To install any bonus software:

- 1 Double-click the **Bonus** folder icon.
- 2 Double-click the installer icon for the bonus software.
- 3 Follow the on-screen instructions to install the software.

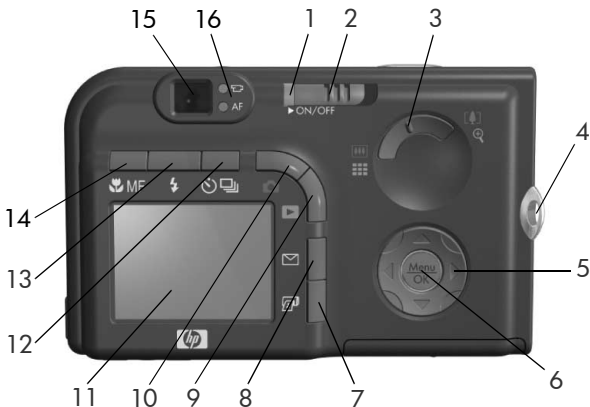
User Manual on the CD

A copy of this camera User's Manual in several different languages is located on the HP Image Zone software CD. Look in the `\docs\Readme` file on the CD to see where the manual is located.










Camera Parts








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



Back of the Camera



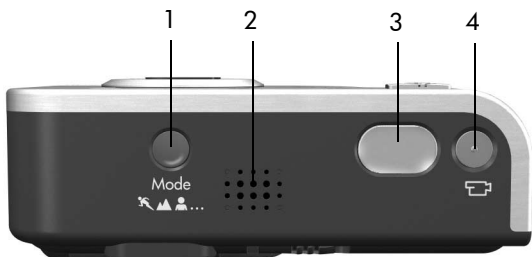
#	Name	Description
1	Power/Memory light	<ul style="list-style-type: none">● Solid—Camera is on.● Blinking rapidly—Camera is writing to either the internal memory or to an optional memory card that is installed.● Blinking slowly—Camera is off and is charging the battery.● Off—Camera is off.
2	▶ ON/OFF switch (page 17)	Turns the camera power on and off.


#	Name	Description
3	Zoom lever (page 41)	<ul style="list-style-type: none"> ●  Zoom Out—While taking still pictures, zooms out the lens to the wide angle position. ●  Thumbnails—While in Playback, allows you to view still images and the first frames of video clips arranged in a matrix of nine thumbnail images per screen. ●  Zoom In—While taking still pictures, zooms in the lens to the telephoto position. ●  Magnify—While in Playback, allows you to magnify a still image.
4	Wrist strap mount (page 12)	Allows you to attach a wrist strap to the camera.
5	 Controller with   and   buttons	Allows you to scroll through menus and images on the Image Display.
6	Menu/OK button (pages 55, 86)	Allows you to display the Capture and Playback menus and to select menu options and confirm certain actions on the Image Display.

#	Name	Description
7	 Print button (page 83)	Allows you to mark the current image for printing later when you connect the camera to your computer or directly to any HP Photosmart printer or PictBridge-compatible printer.
8	 HP Instant Share button (page 97)	Turns the HP Instant Share menu on and off on the Image Display.
9	 Playback button (page 80)	Turns Playback on and off on the Image Display.
10	 Live View button (page 35)	Turns Live View on and off on the Image Display.
11	Image Display (page 35)	Allows you to frame pictures and video clips using Live View and review them afterward in Playback , and to view all the menus.
12	 Timer/Burst button (pages 44, 46)	Allows you to select between Normal , Self-Timer , Self-Timer - 2 Shots , and Burst modes.
13	 Flash button (page 43)	Allows you to select between the different flash settings.
14	 MF Focus button (page 38)	Allows you to select between the different focus settings.

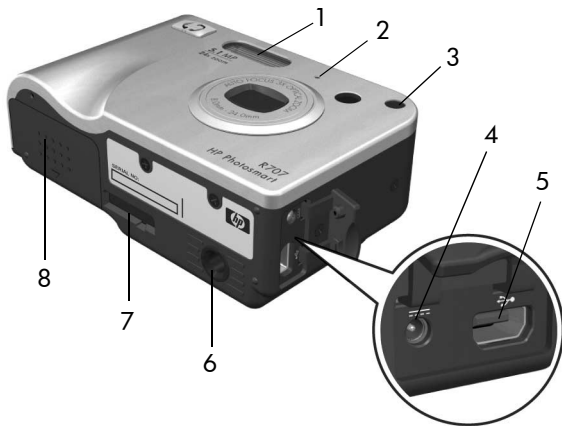
#	Name	Description
15	Viewfinder (page 31)	Allows you to frame the subject of your pictures or video clips.
16	Viewfinder lights	<ul style="list-style-type: none"> ●  solid red—Video is recording. ● AF solid green—When you press the Shutter button halfway down, this light turns on solid when the camera is ready to take a picture (auto exposure and auto focus are locked, and the flash is ready). ● AF blinking green—Either a focus warning occurred when you pressed the Shutter button halfway down, the flash is still charging, or the camera is processing a picture (see the following NOTE). ● Both  and AF blinking—An error has occurred that prevents the camera from taking the picture (see the following NOTE). <p>NOTE If an error prevents a picture from being taken, then an error message will appear on the Image Display. See Error Messages on the Camera on page 142.</p>



Top of the Camera



#	Name	Description
1	Mode button (page 46)	Allows you to select between different shooting modes for taking still pictures.
2	Speaker	Plays camera sounds and audio clips.
3	Shutter button (pages 31, 32)	Takes a picture and records audio.
4	 Video button (page 34)	Starts and stops recording a video clip.

Front, Side, and Bottom of the Camera





#	Name	Description
1	Flash (page 43)	Provides additional light to improve picture-taking.
2	Microphone (page 32)	Records sound (audio and video).
3	Self-Timer/Focus Assist light (pages 44, 117)	<ul style="list-style-type: none"> ● Blinking red—the Self-Timer is activated. ● Solid red—On for short periods in low light conditions to improve auto focus.
4	 Power adapter connector (page 16)	Allows you to connect the HP AC power adapter to the camera to either operate the camera without a battery, or recharge the lithium ion rechargeable battery in the camera.
5	 USB connector (pages 109, 112)	Allows you to connect a USB cable from the camera to a USB-enabled computer or printer.

#	Name	Description
6	Tripod mount	Allows you to mount the camera on a tripod.
7	Camera dock connector (page 174)	Allows you to connect the camera to the optional HP Photosmart R-series dock.
8	Battery/Memory card door (pages 13, 14)	Allows access to insert and remove the battery and an optional memory card.

Camera States



Your camera has two main states that allow you to complete certain tasks. Both of these states has an associated menu that you can use to adjust camera settings or perform tasks in that state. See **Camera Menus** on page 28.

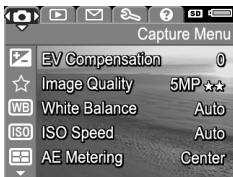
 **Capture**—Allows you to take still pictures and record video clips. For information about using **Capture**, see **Chapter 2: Taking Pictures and Recording Video Clips** on page 31.



 **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** on page 79.

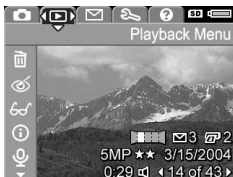
Camera Menus



Your camera has five menus that, when accessed, appear in the Image Display on the back of the camera. When any menu is displayed, you can then access the other menus by using the menu tabs at the top of the screen. To display another menu, use the ◀ ▶ buttons to move to the menu tab for that menu.

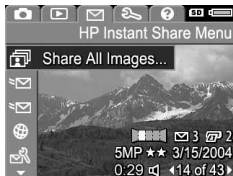
To display the **Capture Menu** , press the **Live View**  button to turn **Live View** on, then press the **Menu/OK** button. A shortcut is to simply press the **Menu/OK** button when **Live View** is off. For information about using this menu, see **Using the Capture Menu** on page 55.









To display the **Playback Menu** , press the **Playback**  button to turn **Playback** on, and then press the **Menu/OK** button. For information about using this menu, see **Using the Playback Menu** on page 86.








To display the **HP Instant Share Menu** , press the **HP Instant Share**  button. For information about using this menu, see **Using the HP Instant Share Menu** on page 103.



NOTE Before you can use the **HP Instant Share Menu** , you must first set up the menu. For information on how to do this, see **Setting Up the HP Instant Share Menu on the Camera** on page 98.


To display the **Setup Menu** , first access either the **Capture**, **Playback**, or **HP Instant Share** menu, then use the   buttons to move to the menu tab for the **Setup Menu** . For information about using the **Setup Menu** , see **Chapter 6: Using the Setup Menu** on page 115.












To display the **Help Menu** , first access either the **Capture**, **Playback**, or **HP Instant Share** menu, then use the   buttons to move to the menu tab for the **Help Menu** . For information about using the **Help Menu** , see the next section.



Using the Help Menu

The **Help Menu**  provides helpful information and tips for using your camera.

- 1 Use the   buttons to move across the menu tabs to the **Help Menu**  tab. The **Help Menu**  displays in the Image Display.
- 2 Use the   buttons to highlight the Help topic you want to read.
- 3 Press the **Menu/OK** button to display the Help topic.
- 4 Use the   buttons to scroll through the Help topic to read it.
- 5 Press the **Menu/OK** button to exit the Help topic and return to the **Help Menu** .

Camera Status Screen

A status screen appears for a few seconds in the Image Display any time you press the **Mode**, **Focus**, **Flash**, or **Timer/Burst** buttons when **Live View** is off.



As shown in the example here, a text description of the current setting for the button that was just pressed appears at the top of the screen. Beneath that, icons for the current shooting mode, **Flash**, **Focus**, and **Timer/Burst** settings are shown, with the icon for the button that was just pressed highlighted. The bottom portion of the screen shows whether a memory card is installed (indicated by the **SD** icon), the battery level, the number of pictures remaining, and the Image Quality setting (indicated in the example by the **5MP** and two stars).

Chapter 2: Taking Pictures and Recording Video Clips

Taking Still Pictures

You can take a picture almost any time the camera is on, regardless of what is being shown on the Image Display. For example, if a menu is currently displayed when you press the **Shutter** button, the menu will be canceled, and the camera will take a picture.

To take a still picture:

- 1 Frame the subject for your picture in the viewfinder.
- 2 Hold the camera steady (especially if using zoom) and press the **Shutter** button on the top of the camera halfway down. The camera measures and then locks the focus and exposure (the AF viewfinder light turns on solid green when focus is locked - see **Using Auto Focus** on page 36 for details).
- 3 Press the **Shutter** button all the way down to take the picture. You will hear a shutter click when the camera takes the picture.



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 **Menu/OK** button.

You can use **Playback** to review the pictures you have taken (see **Using Playback** on page 80).

NOTE If you release the **Shutter** button only halfway after taking a picture, the focus, exposure, and white balance measurements from the previous picture are retained. You can then press the **Shutter** button all the way down again and take another picture with the same focus, exposure, and white balance as the previous picture. You can continue to do this to capture a sequence of pictures using the same focus, exposure, and white balance. This is helpful when rapidly taking pictures.

Recording Audio with Still Pictures

There are two ways to attach an audio clip to a still picture:

- Record the audio while you are taking the picture, as explained in this section.
- Add an audio clip to the picture later, or re-record the audio that was captured when the picture was taken. For details on how to do this, see **Record Audio** on page 94.

NOTE The method described in this section is not available in **Panorama** mode, nor with **Self-Timer** or **Burst** settings.

An audio clip can be up to 60 seconds long.

- 1 Press the **Shutter** button all the way down to take the picture.
- 2 Continue to hold the **Shutter** button down to record the audio clip. A microphone icon (🎤) and audio counter appear on the Image Display during recording.

3 To stop recording audio, release the **Shutter** button.

Audio recording stops when you release the **Shutter** button; otherwise, the audio will continue recording for up to 60 seconds or until the camera runs out of memory, whichever happens first. After recording has stopped, the image is displayed for several seconds in **Instant Review** on the Image Display. You can delete the image and the audio clip that is attached to the image during **Instant Review** by pressing the **Menu/OK** button.

You can use **Playback** to review the audio clips you have recorded. See **Using the Playback Menu** on page 86. To delete or record a new audio clip, use the **Record Audio** option in the **Playback** menu. See **Record Audio** on page 94.

Orientation Sensor

An electro-mechanical device in the camera determines whether the camera is being held horizontally or vertically when a still picture is taken. The camera uses the data from this sensor to automatically rotate the image to its proper orientation when saving the file.

NOTE You can also manually rotate still images using the **Rotate** option in the **Playback Menu**. See **Rotate** on page 95.





NOTE The orientation sensor is disabled when the camera is in the **Panorama** shooting mode.

Recording Video Clips

NOTE Zoom does not work while recording video clips.

Therefore, you may want to zoom first before starting to record a video clip.

A video clip includes audio.

- 1 Frame the subject for your video in the viewfinder.
- 2 To start recording video, press and release the **Video**  button, which is located on top of the camera. The Video  viewfinder light turns on solid red. A “video start” sound is played and, if **Live View** is on when the camera starts recording, a video  icon, **REC**, and a video counter appear on the Image Display. (See **Using Live View** on page 35.)
- 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.




NOTE If you have set the camera to **Self-Timer** or **Self-Timer - 2 Shots** (see **Using the Self-Timer Settings** on page 44), the camera will start recording 10 seconds after you press the **Video** button. However, with the **Self-Timer - 2 Shots** setting, the camera only records one video clip.

After recording has stopped, the first frame of the video clip appears on the Image Display. While it is processing, you can delete the video clip by pressing the **Menu/OK** button.

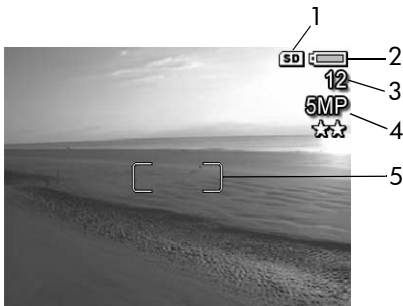
You can use **Playback** on the camera to review the video clips you have recorded.




Using Live View


The Image Display allows you to frame pictures and video clips using **Live View**. To activate **Live View** on the Image Display if the Image Display is off, press the **Live View**  button. To turn off **Live View**, press the **Live View**  button again.

NOTE Using **Live View** consumes a lot of battery power. To conserve battery power, use the viewfinder instead.

The following table describes the information that is displayed in the **Live View** screen of the Image Display 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 the **Live View** screen.



#	Icon	Description
1		Indicates that a memory card is installed in the camera
2	 or 	<ul style="list-style-type: none">Battery level when using battery power (actual icon shown depends on the state of your camera battery; see Battery Gauge on page 168)AC power when using the HP AC power adapter or optional HP Photosmart R-series dock

#	Icon	Description
3	12	Remaining pictures count (actual number depends on how much space remains in memory)
4	5MP ★★	Image Quality setting (default is 5MP ★★)
5		Focus brackets (see Using Auto Focus on page 36)

Focusing the Camera

Using Auto Focus


The focus brackets in the **Live View** screen show the focus region for the picture you are taking or the video clip you are recording. (See **Using Live View** on page 35.) When you press the **Shutter** button halfway down, the camera uses this focus region to automatically measure and then lock the focus.

NOTE In low light conditions, the red Focus Assist light on the front of the camera (see **Front, Side, and Bottom of the Camera** on page 26) may turn on briefly to help the camera focus. If you are in a situation where you do not want the Focus Assist light to turn on, you can turn it off in the **Setup** menu (see **Focus Assist Light** on page 117).

The **AF** viewfinder light turns on solid green and the focus brackets in the **Live View** screen turn green when the image is in focus and the camera can lock the focus. However, the **AF** viewfinder light blinks green and the focus brackets in **Live View** turn red when the camera is unable to focus.

- If the **AF** viewfinder light blinks green and the focus brackets turn red, release the **Shutter** button, re-frame the subject for your picture or video clip, and then press the **Shutter** button halfway down again. If the **AF** viewfinder light continues to blink green and the focus brackets continue to turn red after

several tries, there may not be enough contrast or light in the focus region. Try using a technique called **Focus Lock** to focus on an object about the same distance away but in a higher-contrast region, and then, without releasing the **Shutter** button, point the camera at the object you were originally trying to photograph (see **Using Focus Lock** on page 37). You can also simply turn on more light, if that is possible.

- If the **AF** viewfinder light blinks green, the focus brackets turn red, and the **Macro**  icon blinks in the **Live View** screen, one of the following is true:
 - The camera is set to the **Normal Focus** range but detects the focus is closer than the normal range.
 - The camera is set to the **Macro** (close-up) focus range but detects the focus is farther away than the macro range. In this case, the camera will not take a picture if it cannot find focus.

NOTE No focus brackets appear if the camera is set to **Manual Focus** (see **Using the Focus Range Settings** on page 38).


Using Focus Lock




Focus Lock allows you to focus on a subject that is not in the center of the picture, or to capture action shots more quickly by pre-focusing in the area where the action will occur. You can also use **Focus Lock** to help achieve focus in low light or low contrast situations.

- 1** Frame the subject for your picture within the focus brackets.
- 2** Press the **Shutter** button halfway down to lock the focus and exposure.

- 3 Continue to hold the **Shutter** button halfway down while you re-frame or adjust your subject for proper positioning.
- 4 Press the **Shutter** button all the way down to take the picture.

Using the Focus Range Settings

The **Focus**  **MF** button lets you toggle between four focus settings on the camera. The following table describes each of the focus range settings on the camera:

Setting	Description
Normal Focus	Use when taking pictures of subjects greater than 0.4 m (15.75 in) away. Auto focus is limited to a range of 0.4 m (15.75 in) to infinity. This is the default focus setting.
Macro 	Use when taking close-up pictures of subjects less than 0.4 m (15.75 in) away. In this mode, the camera will not take a picture if it cannot find focus (the AF viewfinder light blinks green and the focus brackets turn red in the Live View screen). Auto focus has a distance range of 0.18 to 0.5 m (7 to 19.5 in).
Infinity ∞	Use when taking pictures of distant objects and landscapes. Focus range is limited to a small region near infinity.
Manual Focus MF	Allows you to step manually through the full focus range. Use the   buttons to adjust the focus. You can determine the focus by observing the image in the Live View screen and by a meter that appears on the left side of the Live View screen. For more information, see Hints on Using Manual Focus on page 40.

Understanding the Focus Search Priority

When the camera is set to **Normal Focus** or **Macro** focus, it begins searching for focus from the last focus position. However, you can use the ▲ ▼ buttons to change this behavior. This feature is useful when there are multiple objects at different distances in the focus region.

- Holding the ▲ button while pressing the **Shutter** halfway down causes the camera to begin searching for focus from the farthest position (infinity in **Normal Focus** and 0.4 m in **Macro**), thus making the camera more likely to focus on an object in the background.
- Holding the ▼ button while pressing the **Shutter** halfway down causes the camera to begin searching for focus from the nearest position (0.4 m in **Normal Focus** and 0.18 m in **Macro**), thus making the camera more likely to focus on an object in the foreground.

Hints on Using Manual Focus

You may want to use **Manual Focus** in the following three cases:


- In low light conditions when auto focus may have a difficult time gaining the proper focus.
- After auto focus, you want to lock the focus for speed and repeatability for the next pictures you take.
- For fine-tuning **Macro** focus.

Otherwise, you may want to limit your use of **Manual Focus** because it is difficult to gain the exact focus position for the best shots using this feature. You may find, instead, that using the other focus settings will provide you with better or more consistent results in the pictures you take.

When using **Manual Focus**, here are some hints that may help:

- To find the best focus position, adjust the focus so that the image looks like it is in focus on the **Live View** screen. From this position, press the ▲ button until the image begins to blur, then press the ▼ button until the image begins to blur. Then set the focus position halfway between the locations where the image began to blur.
- To lock focus for a set of pictures, let the camera find the best focus using the **Normal Focus** setting, then switch to **Manual Focus**. The focus will then be locked at that distance until you adjust it manually or switch to another focus setting.



Using Zoom

NOTE The more you zoom in on the subject of your picture, the more that even small movements of the camera are magnified (this is called “camera shake”). So, especially at full telephoto zoom (3x), you really need to hold the camera steady in order to take a picture that is not blurry. If an icon of a shaking hand () appears in the **Live View** screen, you should set the camera on a tripod or stable surface; otherwise, the picture will likely be blurry.

Optical Zoom

NOTE Optical zoom does not work while recording video clips.

Optical zoom works like the zoom on a traditional film camera, with physical lens elements moving inside the camera to make the subject of your picture appear closer.


Press **Zoom Out**  and **Zoom In**  on the **Zoom lever** to move the lens between wide angle (1x) and telephoto (3x) positions.

Digital Zoom



NOTE Digital zoom does not work while shooting panoramic images or while recording video clips.

Unlike optical zoom, digital zoom uses no moving lens parts. The camera essentially crops the image to give an appearance of the subject of the picture being an additional 1.1x to 8x larger.

1 Press the **Zoom In**  on the **Zoom lever** to optically zoom in to the maximum level, then release the button.

- 2** Press **Zoom In**  again and hold it until you reach the desired size in the Image Display. A yellow frame surrounds the area of the image that will be captured. The resolution number on the right side of the screen also becomes smaller as you digitally zoom. For example, **4.2MP** appears in place of **5MP**, indicating that the image is being reduced to a size of 4.2 Megapixels.
- 3** When the yellow frame is at the desired size, press the **Shutter** button to take the picture.





To turn digital zoom off and return to optical zoom, press **Zoom Out**  on the **Zoom lever** until digital zooming stops. Release **Zoom Out** , and then press it again.






NOTE Digital zoom reduces the resolution of an image, so your picture will tend to be more pixilated than the same image taken with optical zoom. If you just intend to e-mail an image or post it to a website, this loss of resolution will not be noticeable, but in situations where the highest quality counts (such as printing), limit the use of digital zoom. It is also recommended to use a tripod when using digital zoom.

Setting the Flash

NOTE The flash does not work in **Panorama** mode, with the **Burst** setting, or while recording video clips.

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




NOTE If you change the flash setting, the camera will remain in that setting until you change it or turn off the camera. Except in **My Mode** (page 52), when you turn the camera on again, flash resets to the default **Auto Flash** setting.

Setting	Description
Auto Flash 	The camera measures light and uses the flash if necessary.
Red-Eye 	The camera measures light and uses the flash with red-eye reduction if necessary (see the following NOTE for a description of red-eye reduction).
Flash On 	The camera always flashes. 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 flash, no matter the lighting conditions.
Night 	The camera fires the flash if necessary (using red-eye reduction) to illuminate objects in the foreground. It then continues to expose as if the flash had not fired to gather the background (see the following NOTE for a description of red-eye reduction).

NOTE The red-eye phenomenon is caused by light from the flash reflecting off the subjects' eyes, which sometimes makes a human's or animal's eyes appear red in the captured image. When you use a flash setting with red-eye reduction, the camera flashes twice, minimizing the red-eye in the captured images of humans or animals. It will take longer to take a picture using red-eye reduction, because the shutter is delayed for the additional flash. In turn, make sure your subjects wait for the second flash.

NOTE You can remove red eyes from subjects in still images that you have taken using the **Remove Red Eyes** option in the **Playback Menu** (see page 91).

Using the Self-Timer Settings

- 1 Secure the camera to a tripod or set it on a stable surface.
- 2 Press the **Timer/Burst**  button until **Self-Timer**  or **Self-Timer - 2 Shots**  appears in the Image Display.
- 3 Frame the subject in either the viewfinder or in **Live View**. (See **Using Live View** on page 35.)
- 4 The next steps depend on whether you are capturing one or two still pictures, or are recording a video clip.

For Still Pictures:


- a. Press the **Shutter** button halfway down to gain **Focus Lock** (the camera measures and then locks the focus and exposure). The camera will hold these settings until it takes the picture.

b. Press the **Shutter** button all the way down. If the Image Display is on, a 10-second countdown appears on the screen. The Self-Timer light on the front of the camera then blinks for 10 seconds before the camera takes the picture. If you set the camera to **Self-Timer - 2 Shots**, the Self-Timer light blinks for a few more seconds until the second picture is taken.


NOTE If you immediately press the **Shutter** button all the way down without using **Focus Lock**, the camera will lock focus and exposure just before the end of the 10-second countdown. This is useful when one or more subjects will be entering the picture during the 10-second countdown period.

NOTE You cannot record audio with a still picture when using the **Self-Timer** settings, but you can add an audio clip later (see **Record Audio** on page 94).

For Video Clips:

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

NOTE With either the **Self-Timer** or the **Self-Timer - 2 Shots** setting, only one video clip is recorded after the 10-second countdown.



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

Using the Burst Setting

NOTE The **Burst** setting does not work in **Panorama** mode, nor while recording video clips. You also cannot record audio when using the **Burst** setting, but you can add an audio clip later (see **Record Audio** on page 94). Also, the flash does not work while using the **Burst** setting.

NOTE If you set the camera to **Burst** while in **AE Bracketing**, the camera honors the **Burst** setting, and ignores **AE Bracketing**.

Burst allows you to take 3 still pictures in a row as quickly as the camera possibly can.

- 1 Press the **Timer/Burst**  button until **Burst**  appears in the Image Display.
- 2 Frame the subject and press the **Shutter** button all the way down and hold it. The camera takes 3 pictures as quickly as possible until the **Shutter** button is released.





The Image Display remains off during the burst capture. After the burst pictures have been taken, each image appears one at a time on the Image Display.





Using the Shooting Modes

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

Shooting modes are pre-defined camera settings that are optimized for taking 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, F-number (aperture), and shutter speed, optimizing them for the particular scene or situation.

To change the shooting mode, press the **Mode** button on top of the camera until the desired shooting mode appears in the status screen. Alternatively, you can press the **Mode** button just once and then use the ◀ ▶ buttons to scroll to the desired shooting mode. The following table describes each of the shooting mode settings on the camera.

Setting	Description
Auto	In this mode, the camera automatically selects the best F-number (aperture) and shutter speed for the scene. Auto mode works well for most shots in normal situations. This mode is also useful when you need to take a good shot quickly, and do not have time to select a special shooting mode on the camera.
Action 	In this mode, the camera uses fast shutter speeds and higher ISO speeds to stop motion. Use Action mode to capture sporting events, moving cars, or any scene where you want to stop the action.
Landscape 	In this mode, the camera combines a higher F-number for better depth of field with higher saturation and sharpness for a more vivid effect. Use Landscape mode to capture mountain scenes or any shots with a deep perspective.
Portrait 	In this mode, the camera combines a smaller F-number to blur the background, with lower saturation, contrast, and sharpness for a more natural effect. Use Portrait mode for pictures that have one or more people as their primary focal point.
Beach & Snow 	This mode lets you capture bright, outdoor scenes and balance out harsh lighting.

Setting	Description
Sunset 	In this mode, the focus starts at infinity and the flash is set 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.
Aperture Priority Av	This mode lets you select the F-number (aperture) setting in Live View using the ◀ ▶ buttons, while the camera selects the best shutter speed. This allows you to control the depth of field (for example to blur the background). Use the Aperture Priority mode when you want specific control over the aperture.
Panorama 	This mode allows you to shoot a series of overlapping frames for stitching into one, large panoramic image using the included computer software. Use Panorama mode for grand landscapes, such as mountain ranges, or group pictures where you need to capture a wide shot that one image cannot capture. Flash is set to Flash Off in this mode. (See Using Panorama Mode on page 49). You can view the entire panoramic shot using the Preview Panorama option in the Playback Menu (see Preview Panorama on page 95).
Document 	This mode uses a high contrast setting and a low saturation setting, with flash set to Flash Off . Use Document mode for shooting flat, textual, or graphical pieces.
My Mode 	This is a customizable shooting mode that allows you to select, save, and then repeatedly use a group of preferred settings on your camera. See Using My Mode on page 52

Noise Reduction for Long Exposures

At longer shutter speeds the camera will automatically take a second exposure with the shutter closed in order to measure and reduce the noise (grainy look) in the image. In these cases, the exposure will seem to take twice as long as expected. For example, in a 1-second exposure, the Image Display will stay dark for 2 seconds until the noise reduction frame is exposed. This means that at longer shutter speeds, you may not be able to take quite as many shots back-to-back.



Using Panorama Mode

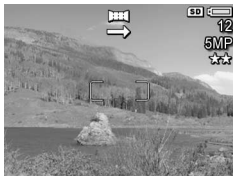
NOTE If the HP Image Zone software is not installed on your computer, see **Using Your Camera without Installing the HP Image Zone Software** on page 125.

Panorama mode allows you to take a sequence of 2–5 pictures that can be “stitched” together in order to capture a scene too wide to fit into a single picture. In **Panorama** mode, you take a picture as the first in the panoramic sequence, and each subsequent picture you take is added to the panorama until you end the sequence by pressing the **Menu/OK** button, or until you have taken the fifth picture in the sequence. You can then view a low-resolution image of your panorama with the **Preview Panorama Menu** option in the **Playback Menu** (see page 95), or you can transfer the images in the panoramic sequence to your computer for stitching together and then viewing or printing.


Your camera came with the ArcSoft® Panorama Maker™ software that automatically stitches the images in the panoramic sequence together on your computer during image transfer. The Panorama Maker software was automatically installed on your computer during the HP Image Zone software installation process (see **Installing the Software** on page 19). To transfer the panoramic sequence of images from your camera to your computer so that the ArcSoft Panorama Maker software can stitch the images together, see **Transferring Images to a Computer** on page 109.

Taking a Panoramic Sequence of Pictures


- 1 Press the **Mode** button on top of the camera until the **Panorama**  mode appears in the Image Display. The camera switches to **Live View** with  displayed in the Image Display. You are now ready to take the first picture in your panoramic sequence.



NOTE Panorama images are stitched together from left to right, so your first image must be at the left-most end of the panorama view.

- 2 Press the **Shutter** button to take the first picture in the panoramic sequence. After **Instant Review**, the camera switches to **Live View** with  displayed in the Image Display.



- 3 Position the camera to take the second picture. Notice the transparent overlay of the image of the first picture in the sequence superimposed on the left third of the **Live View** screen. Use this overlay to align your second picture horizontally with the first.
- 4 Press the **Shutter** button to take the second picture. After **Instant Review**, the camera switches to **Live View** with  displayed in the Image Display. Again, the transparent overlay of the previous image is superimposed on the left third of the **Live View** screen to enable you to align your third picture.
- 5 Continue adding more pictures to the panorama, or press the **Menu/OK** button to end the panoramic sequence. The panoramic sequence ends automatically after you take the fifth picture.



NOTE To view a low-resolution image of the panorama on your camera, see **Preview Panorama** on page 95.


Using My Mode

My Mode is a customizable shooting mode that allows you to select, save, and then repeatedly use a group of preferred settings on your camera. This shooting mode is especially useful when you frequently take pictures of the same type of subject or scene and want to have the camera set to the same settings each time. For example, you may often take action pictures of your child playing soccer outdoors on bright, sunny days. In this case, you could select and save **Action** as the shooting mode setting and **Sun** as the **White Balance** setting in **My Mode**, and then simply set your camera to the **My Mode** shooting mode every time in the future that you wish to take pictures at your child's soccer games or practices.

The settings in **My Mode** are completely independent from the group of settings used for all other shooting modes on the camera. And, unlike the other shooting modes, all of your settings in **My Mode** are saved by default when you turn the camera off.

Selecting and Saving Preferred Settings in My Mode

- 1 Press the **Mode** button on the top of the camera to toggle through the shooting modes until you see **My Mode** and the **MY** icon in the Image Display.
- 2 Press the **Menu/OK** button to display the **MY Mode Capture Menu**.
- 3 To change the setting for a particular menu option:
 - a. Use the **▲** or **▼** button to scroll to a menu option in the **My Mode Capture Menu**.
 - b. Press the **Menu/OK** button. The sub-menu for that menu option is displayed.


- c. Use the ▲ or ▼ button to highlight the new setting you want for that menu option.
 - d. Press the **Menu/OK** button to select that setting and return to the **My Mode Capture Menu**.
- 4 Repeat step 3 for each menu option setting you want to change.
 - 5 When you have finished changing settings in the **My Mode Capture Menu**, press the **Live View**  button on the back of the camera to exit the **My Mode Capture Menu** and return to **Live View**. The **MY** icon and the icons for the settings you selected for **My Mode** are now displayed in **Live View**.

The settings you selected are automatically saved and remain set in **My Mode** even if you switch to a different shooting mode or turn the camera off. To change any of the settings you selected in **My Mode**, repeat steps 1 through 5.

Using the **My Mode Saved Settings Sub-Menu**


You can further customize how **My Mode** works by using the **My Mode Saved Settings** sub-menu. This sub-menu allows you to specify exactly which settings you would like to save in **My Mode** and which you would like to return to their defaults when you turn the camera off. The **My Mode Saved Settings** sub-menu also has a menu option called **Start in My Mode** where you can specify that the camera start in **My Mode** instead of **Auto** mode each time you turn the camera on.

- 1 Press the **Mode** button on the top of the camera to toggle through the shooting modes until you see **My Mode** and the **MY** icon in the status screen.

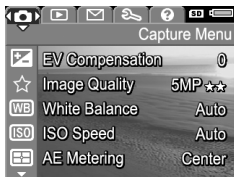
- 2 Press the **Menu/OK** button to display the **My Mode Capture Menu**.
- 3 Use the ▲ or ▼ button to scroll to the **My Mode Saved Settings** menu option and press the **Menu/OK** button. The **My Mode Saved Settings** sub-menu displays. The items with check marks in the **My Mode Saved Settings** sub-menu will be saved in **My Mode** any time you turn the camera off.
- 4 To change a setting so it will return to its default setting when you turn the camera off, or, in the case of **Start in My Mode**, to specify that the camera start in **My Mode** each time you turn the camera on:
 - a. Use the ▲ or ▼ button to scroll to the setting.
 - b. Press the ► button to either remove the check mark next to a setting so it will return to its default setting when you turn the camera off, or toggle the **Start in My Mode** setting to **Yes**.
- 5 Repeat step 4 for each setting you want to change.
- 6 When you have finished changing settings in the **My Mode Saved Settings** sub-menu, press the **Menu/OK** button to return to the **My Mode Capture Menu**.
- 7 To exit the **My Mode Capture Menu**, press the **Live View**  button on the back of the camera to exit the **My Mode Capture Menu** and return to **Live View**.

Using the Capture Menu

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

- 1 To display the **Capture Menu**, press the **Live View**  button, and then press the **Menu/OK** button. If the image Display is already off, you can simply press **Menu/OK**.

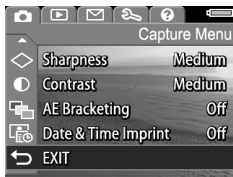
Screen 1:









Screen 2:



Screen 3:

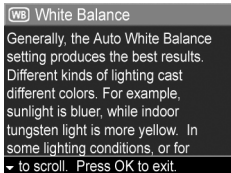


- 2 Use the   buttons to scroll through the **Capture Menu** options.
- 3 Either press **Menu/OK** to select a highlighted option and display its sub-menu, or use the   buttons to change the setting for the highlighted option without going to its sub-menu.
- 4 Within a sub-menu, use the   buttons and then the **Menu/OK** button to change the setting for the **Capture Menu** option.

- 5 To exit the **Capture Menu**, highlight the ↩ **EXIT** option and press **Menu/OK**.

Help for the Menu Options

Help... is the last option in each of the **Capture** sub-menus. The **Help...** option provides information about that **Capture** menu option and its settings. For example, if you press **Menu/OK** when **Help...** is highlighted in the **White Balance** sub-menu, the **White Balance Help** screen is displayed, as shown.



Use the ▼▲ buttons to scroll through the Help screens. To exit the Help and return to the particular **Capture** sub-menu, press the **Menu/OK** button.


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 house in the snow) or many dark objects (like a black cat on 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 55), select **EV Compensation**.
- 2 In the **EV Compensation** sub-menu, use the ◀ ▶ buttons to change the EV setting in 0.33 steps from -3.0 to +3.0. 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 **Menu/OK** to save the setting and return to the **Capture Menu**.



If the setting is anything other than the default setting of 0 (zero), the number value will appear in the **Live View** screen next to the  icon.

Except in **My Mode** (page 52), the new setting remains in effect until it is changed again or until the camera is turned off.

Image Quality

NOTE This setting does not apply when recording video clips.

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 pre-defined settings, as well as a menu option through which you can create your own custom **Image Quality** setting.

NOTE The resolution portion of all the **Image Quality** settings except for the **VGA** setting is represented by a number and **MP** (Megapixels), such as **5MP** or **3MP**. The higher the number of Megapixels, the higher the resolution. In the case of the **VGA** setting, the image will have 640 by 480, which is the lowest resolution.

The compression portion of the **Image Quality** settings is represented by the stars. The more stars, the less compression of the image, and the higher the quality. Conversely, the less number of stars, the higher compression of the image, and the lower the quality.

- 1 In the **Capture Menu** (page 55), select **Image Quality**.
- 2 In the **Image Quality** sub-menu, use the ▲ ▼ buttons to highlight a pre-defined setting or the **Custom...** menu option.
- 3 Press **Menu/OK** to save a pre-defined setting and return to the **Capture Menu**. Or, when the **Custom...** menu option is highlighted, press **Menu/OK** to go to the **Custom Image Quality** sub-menu (see page 60).



The following table helps explain the pre-defined **Image Quality** settings in more detail:

Setting	Description
5MP ★★★	Images will be full resolution and have the lowest pre-defined compression. This setting produces very high quality images, with greater color accuracy, but uses the most memory. This is recommended if you plan to enlarge images, or print images to a size larger than 18 by 24 cm (8 by 10 in).
5MP ★★	Images will be full resolution and have medium compression. This setting produces high quality images, but uses less memory than the 5MP setting above. This is the default setting and is recommended if you plan to enlarge images, or print images to a size of 18 by 24 cm (8 by 10 in) or larger.
3MP ★★	Images will be 3MP (medium) resolution and have medium compression. This setting produces high-quality images, but uses less memory than the 5MP settings above. This setting is recommended for printing images up to 13 by 18 cm (5 by 7 in).
1MP ★★	Images will be 1MP (low) resolution and have medium compression. This is a memory-efficient setting, ideal for images that you want to send via e-mail or post to the Internet.
VGA ★★	Images will be 640 by 480 (lowest) resolution and have medium compression. This is a memory-efficient setting, but produces the lower quality images. This setting is good for images you want to send via e-mail or post to the Internet.

The **Image Quality** setting not only affects the quality of the images, but as a result the amount of images that can be stored either in the internal memory in the camera or on an optional memory card. Higher resolution and lower compression images will take up more space than images with lower resolution and/or compression. For example, the highest pre-defined setting, **5MP ★★★**, results in high quality images, but consumes more storage space in memory than the next lower setting, **5MP ★★**. Likewise, many more still images can be stored in memory at the **1MP ★★** or **VGA ★★** settings than at **5MP ★★**; however, these settings will result in much lower quality images.

The **Pictures remaining** count at the bottom of the screen updates when you highlight each pre-defined setting. See **Memory Capacity** on page 183 for more information about how the **Image Quality** setting affects the number of images that can be saved on your memory card.

The icon for the new setting (in the previous table) 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 changes as you zoom in. See **Digital Zoom** on page 41.

Custom Image Quality

If you select the **Custom...** option from the **Image Quality** sub-menu, the **Custom Image Quality** sub-menu displays. This sub-menu allows you to select a custom **Image Quality** setting, including individually setting the resolution and the compression of the images you capture.

In the **Custom Image Quality** sub-menu, the default **Resolution** setting is **5MP** (full resolution), and the default **Compression** setting is **★★** (medium compression).

- 1 In the **Image Quality** sub-menu (page 58), select the **Custom...** option.
- 2 Use the ▲ ▼ buttons to move between the **Resolution** and **Compression** options.
- 3 Use the ◀ ▶ buttons to change the **Resolution** or **Compression** setting. The following tables help explain these settings.



Resolution Settings

5MP—Full resolution; therefore, highest quality

3MP—3MP (medium) resolution

1MP—1MP (low) resolution

VGA—640 by 480 (lowest) resolution; lowest quality

NOTE At higher compression levels, image quality is reduced.

Compression Settings

★ —Highest compression; most memory-efficient, and minimum quality

★★ —Medium compression

★★★ —Low compression

★★★★ —Little to no compression; least memory-efficient, and maximum quality

- 4 Press **Menu/OK** to save the custom **Image Quality** setting and return to the **Capture Menu**.

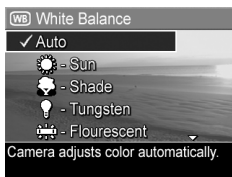
The custom **Image Quality** setting will appear in the **Live View** screen. The custom setting remains in effect until it is changes again, even when you turn the camera off.

NOTE When you use digital zoom, the resolution changes as you zoom in. See **Digital Zoom** on page 41.


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. Using the **Sun** setting can produce a warmer look to the image.

- 1 In the **Capture Menu** (page 55), 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 **Menu/OK** to save the setting and return to the **Capture Menu**.



The following table helps explain 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.

Setting	Description
Shade 	The camera balances color assuming the subject is outdoors in shade, in dark cloudy conditions, or at dusk.
Tungsten 	The camera balances color based on incandescent or halogen lighting (typically found in homes).
Fluorescent 	The camera balances color based on fluorescent lighting.
Manual 	The camera calculates a custom White Balance based on your target image (see the following subsection).

If the setting is anything other than the default **Auto** setting, the icon for the setting (in the previous table) will appear in the **Live View** screen.

Except in **My Mode** (page 52), 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.

Manual White Balance

If you select the **Manual** option, the **Manual White Balance** screen displays. The **Live View** portion of the screen shows the color tint from the previous **Manual White Balance** setting that was made.



NOTE To restore the previous **Manual White Balance** setting, simply press the **Menu/OK** button in the **Manual White Balance** screen without pressing the **Shutter** button.

To change the **Manual White Balance** setting:

- 1 Point the camera at a white or gray target (such as a piece of paper), making sure that the entire screen encompasses the white or gray target.
- 2 Press the **Shutter** button (the camera will not take a picture). The camera then calculates a custom **White Balance** setting based on the region inside the focus brackets. During the calculation, **PROCESSING...** is displayed on the screen. When the calculation is complete, the color tint in **Live View** changes to match the new **Manual White Balance** setting, and **WHITE BALANCE SET** is displayed.
- 3 If needed, repeat steps 1 and 2 until you get the desired **Manual White Balance** setting.
- 4 When you are satisfied with the **Manual** setting you have made, press the **Menu/OK** button to exit the **Manual White Balance** screen and return to the **Capture Menu**.

ISO Speed

NOTE This setting does not apply when recording video clips.

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 the best quality 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 pictures of fast moving objects. Higher ISO speeds produce pictures with more grain (or noise) and, thus, can be of lower quality.

- 1 In the **Capture Menu** (page 55), select **ISO Speed**.
- 2 In the **ISO Speed** sub-menu, use the ▲ ▼ buttons to highlight a setting.
- 3 Press **Menu/OK** to save the setting and return to the **Capture Menu**.



If the setting is anything other than the default **Auto** setting, the number value for the setting will appear in the **Live View** screen.

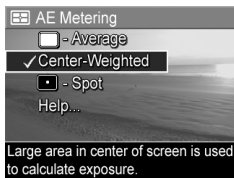
Except in **My Mode** (page 52), the new setting remains in effect until it is changed again or until the camera is turned off. The **ISO Speed** setting resets to the default **Auto** setting when you turn the camera off.

AE Metering


NOTE This setting does not apply when recording video clips.


This setting allows you to specify which region of a scene the camera will use to calculate the exposure.

- 1 In the **Capture Menu** (page 55), select **AE Metering**.
- 2 In the **AE Metering** 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 **Menu/OK** to save the setting and return to the **Capture Menu**.



The following table explains the settings in more detail:

Setting	Description
Average 	The camera uses the entire scene region to measure and calculate exposure. Use this setting when you want everything in the picture to be used equally when calculating exposure.

Setting	Description
Center-Weighted	The camera uses a large area in the center of the scene region to measure and calculate exposure. This setting is good to use when the subject of the picture is in the center of the frame. Exposure will be based more on the subject than on its surroundings. This is the default setting.
Spot 	The camera uses a small area in the center of the scene region to measure and calculate exposure. This can be useful in backlit scenes or when the subject of the picture is very dark or light compared to the rest of the scene. When using this setting, frame the subject of the picture in the center of the focus brackets, then press the Shutter button halfway down to lock the exposure and focus on the spot in the center. Then recompose the scene as desired and press the Shutter button all the way down. NOTE: When this setting is used, parts of the image can end up over or under-exposed.

If the new setting is anything other than the default **Center-Weighted** setting, the icon for the setting (in the previous table) will appear in the **Live View** screen.

Except in **My Mode** (page 52), the new setting remains in effect until it is changed again or until the camera is turned off. The **AE Metering** setting resets to the default **Center-Weighted** setting when you turn the camera off.

Adaptive Lighting

NOTE This setting does not apply in **Panorama** mode or when recording video clips.

This setting balances the relationship between bright and dark areas in a picture, preserving gentle contrasts but compressing harsh contrasts. Some areas in the picture are lightened, while others are left alone. Here is an example of how **Adaptive Lighting** can enhance an image:

Without Adaptive Lighting:



With Adaptive Lighting:



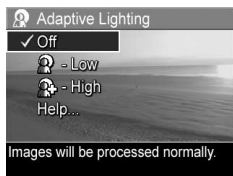
Adaptive Lighting is useful in situations like these:

- Outdoor scenes with a mixture of sun and shade
- Cloudy days when there is a lot of “glare” from the sky
- Indoor scenes that use flash photography (to soften or even out the effect of the flash)
- Backlit scenes where the subject is too far away for the regular flash to reach



NOTE When **Adaptive Lighting** is turned on, the camera will take longer to store an image in memory, since the image is being processed before storing it.

You can use **Adaptive Lighting** with or without regular flash, but it is not recommended as a replacement for regular flash. Unlike regular flash, **Adaptive Lighting** does not affect exposure settings, so brightened areas may appear “noisy” or grainy, and indoor or night images may be blurry if taken without a regular flash or a tripod.

- 1 In the **Capture Menu** (page 55), select **Adaptive Lighting**.
- 2 In the **Adaptive Lighting** sub-menu, use the ▲ ▼ buttons to highlight a setting.
- 3 Press **Menu/OK** 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 process the image as normal. This is the default setting.
Low 	The camera will brighten the dark regions of the image.
High 	The camera will greatly brighten the dark regions of the image.

If the new setting is anything other than the default **Off** setting, the icon for the setting (in the previous table) will appear in the **Live View** screen.

Except in **My Mode** (page 52), the new setting remains in effect until it is changed again, even when you turn the camera off.

Color

This setting allows you to control the color in which your images will be captured. For example, when you set **Color** to **Sepia**, your images will be captured in brown colors to make them look aged or old-fashioned.

NOTE Once you have taken a picture using either the **Black & White** or **Sepia** setting, the image cannot be adjusted back to **Full Color** later.

- 1 In the **Capture Menu** (page 55), select **Color**.
- 2 In the **Color** 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 **Menu/OK** to save the setting and return to the **Capture Menu**.



Except in **My Mode** (page 52), the new setting remains in effect until it is changed again or until the camera is turned off. The **Color** setting resets to the default **Full Color** setting when you turn the camera off.



Saturation

This setting allows you to determine how saturated the colors will be in your pictures.

- 1 In the **Capture Menu** (page 55), select **Saturation**.
- 2 In the **Saturation** sub-menu, use the ▲ ▼ buttons to highlight a setting.
- 3 Press **Menu/OK** to save the setting and return to the **Capture Menu**.



The following table helps explain the settings in more detail:

Setting	Description
Low 	Mutes colors to give a softer, more “natural” look to the subject.
Medium	Colors will be normally saturated. This is the default setting.
High 	Emphasizes more vivid colors in a scene. Outdoor landscape photography can use high saturation to create skies that are more blue, or sunsets that are more orange.

If the new setting is anything other than the default **Medium** setting, the icon for the setting (in the previous table) will appear in the **Live View** screen.

Except in **My Mode** (page 52), the new setting remains in effect until it is changed again or until the camera is turned off. The **Saturation** setting resets to the default **Medium** setting when you turn the camera off.

Sharpness

NOTE This setting does not apply when recording video clips.

This setting allows you to set how sharp the fine detail will be in your images.

- 1 In the **Capture Menu** (page 55), select **Sharpness**.
- 2 In the **Sharpness** sub-menu, use the ▲ ▼ buttons to highlight a setting.
- 3 Press **Menu/OK** to save the setting and return to the **Capture Menu**.



The following table helps explain the settings in more detail:

Setting	Description
Low ◊ ◊	The edges in your images will be softer, with less grain (or noise). You can use this setting for taking portrait pictures with softer, more natural edges.
Medium	The edges in your images will have normal sharpness. This is the default setting.
High ◊ ◊	The edges in your images will be more pronounced. This setting may be helpful for outdoor landscapes, but the images will contain more grain (or noise).

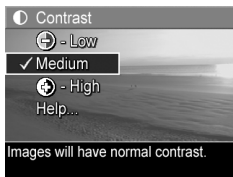
If the new setting is anything other than the default **Medium** setting, the icon for the setting (in the previous table) will appear in the **Live View** screen.

Except in **My Mode** (page 52), the new setting remains in effect until it is changed again or until the camera is turned off. The **Sharpness** setting resets to the default **Medium** setting when you turn the camera off.

Contrast

This setting allows you to control how much contrast there will be between the dark and light colors in your captured images, including the amount of detail there will be in the highlights and shadows within the images.

- 1 In the **Capture Menu** (page 55), select **Contrast**.
- 2 In the **Contrast** sub-menu, use the ▲ ▼ buttons to highlight a setting.
- 3 Press **Menu/OK** to save the setting and return to the **Capture Menu**.



The following table helps explain the settings in more detail:

Setting	Description
Low 	Your images will have less contrast. Dark and light colors in the image will be less distinct, and there will be more details in the highlights and shadows.
Medium	Your images will have normal contrast. This is the default setting.
High 	Your images will have more contrast. Dark and light colors in the image will be more distinct, and there will be less details in the highlights and shadows.

If the new setting is anything other than the default **Medium** setting, the icon for the setting (in the previous table) will appear in the **Live View** screen.

Except in **My Mode** (page 52), the new setting remains in effect until it is changed again or until the camera is turned off. The **Contrast** setting resets to the default **Medium** setting when you turn the camera off.

AE Bracketing

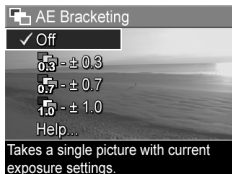
NOTE This setting does not apply in **Panorama** mode.

This setting allows you to take three pictures with the camera, with each picture set to a different exposure value. When you select one of the **AE (automatic exposure) Bracketing** settings, the camera will take the first picture at normal exposure (0 exposure value), followed by an underexposed picture at the negative (-) exposure value in the setting, and finally an overexposed picture at the positive (+) exposure value in the setting. The entire sequence of three shots is taken with only one press of the **Shutter** button. Use **AE Bracketing** when you want to try underexposing and overexposing a shot to get an image at the best exposure.

NOTE Flash is allowed when you select an **AE Bracketing** setting; however, the interval between each of the pictures in the sequence of three shots will be longer due to flash recharging.




NOTE If you have selected **Burst** mode, **AE Bracketing** is ignored. Also, when you use **AE Bracketing** with **Self-Timer - 2 Shots** set, the **Self-Timer - 2 Shots** setting is essentially ignored and is treated the same as the **Self-Timer** mode (only one 3-shot sequence is taken).

- 1 In the **Capture Menu** (page 55), select **AE Bracketing**.
- 2 In the **AE Bracketing** sub-menu, use the **▲ ▼** buttons to highlight a setting.
- 3 Press **Menu/OK** to save the setting and return to the **Capture Menu**.



- 4 To take the three pictures, each at a different exposure setting, simply press the **Shutter** button all the way down one time. The entire 3-shot sequence is taken with one press of the **Shutter** button, as long as there is enough space in the memory buffer of the camera to store all three images. Be sure to hold the camera still until all three pictures have been taken. After the three pictures have been taken, each image appears one at a time on the Image Display.

The following table helps explain the settings in more detail:

Setting	Description
Off	The camera will not use AE bracketing.
+/-0.3 	The camera will take the first picture at normal exposure (0 exposure value), followed by an underexposed picture at -0.3 exposure value, and finally an overexposed picture at +0.3 exposure value.
+/-0.7 	The camera will take the first picture at normal exposure (0 exposure value), followed by an underexposed picture at -0.7 exposure value, and finally an overexposed picture at +0.7 exposure value.
+/-1.0 	The camera will take the first picture at normal exposure (0 exposure value), followed by an underexposed picture at -1.0 exposure value, and finally an overexposed picture at +1.0 exposure value.

If the new setting is anything other than the default **Off** setting, the icon for the setting (in the previous table) will appear in the **Live View** screen.

NOTE Except in **My Mode** (page 52), the new setting remains in effect until it is changed again or until the camera is turned off. The **AE Bracketing** setting resets to the default **Off** setting when you turn the camera off.

Date & Time Imprint

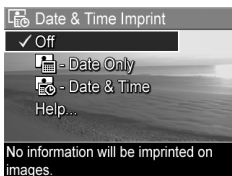
NOTE This setting does not apply in **Panorama** mode or when recording video clips.

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. Once 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 to previously captured images.



NOTE Once 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.

NOTE If you rotate the image using the **Rotate** option in the **Playback Menu** (page 86), the date or date and time imprint will likewise rotate with the image.

- 1 In the **Capture Menu** (page 55), select **Date & Time Imprint**.
- 2 In the **Date & Time Imprint** sub-menu, use the ▲ ▼ buttons to highlight a setting.
- 3 Press **Menu/OK** to save the setting and return to the **Capture Menu**.



The following table helps explain the settings in more detail:


Setting	Description
Off	The camera will not imprint a date or date and 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 (in the previous table) 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.






Chapter 3:



Reviewing Images and Video Clips

You can use **Playback** to review the images and video clips in your camera. When reviewing images in **Playback**, you can use the **Print**  button to select still images that you want to have printed automatically the next time you connect the camera to your computer or directly to any HP Photosmart or PictBridge-compatible printers. See **Selecting Images for Printing** on page 83. While in **Playback**, you can also use the **Zoom** lever to view thumbnails of images, or to magnify images so you can take a closer look at them on the camera. See **Viewing Thumbnails** on page 84 and **Magnifying Images** on page 85.

In addition, the **Playback Menu** allows you to delete images or video clips, manipulate images, such as removing red eyes from images and rotating images, and even get **HP Image Advice** (an analysis of images for any problems with focus, exposure, and so forth, that may have occurred while capturing the images). To do these things and more, see **Using the Playback Menu** on page 86.

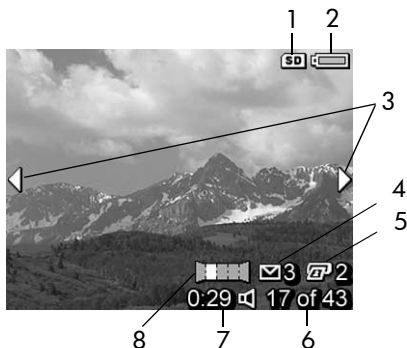
Using Playback











- 1 Press the **Playback**  button to activate **Playback**. The most recently taken or reviewed image or video clip appears on 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.

NOTE Audio clips attached to still images and video clips play automatically after the still image or the first frame of the video clip displays for 2 seconds. You can adjust the volume of the audio playback by pressing the   buttons.



- 3 To turn off the Image Display after reviewing your images and video clips, press the **Playback**  button again.


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



#	Icon	Description
1		Displays only when an optional memory card is installed in the camera.
2	 or 	<ul style="list-style-type: none"> ● Battery level when using battery (actual icon shown depends on the state of your camera battery; see Battery Gauge on page 168). ● AC power when using the HP AC power adapter or optional HP Photosmart R-series dock.
3		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.
4	 3	Indicates this image has been selected to be sent to 3 destinations using HP Instant Share (see Chapter 4: Using HP Instant Share on page 97).
5	 2	Indicates this image has been selected for printing 2 copies (see Selecting Images for Printing on page 83).
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  or 	<ul style="list-style-type: none"> ● Shows the recorded length of this audio or video clip. ● Indicates this image has an audio clip attached. ● Indicates this is a video clip.
8		Indicates this image is the second image in a panoramic sequence of images that was taken using the Panorama shooting mode.


Total Images Summary Screen

When you press the  button while viewing the last image, a screen appears showing the number of pictures taken, and the number of pictures remaining. Counters indicating the total number of images selected for printing  and for


HP Instant Share  are shown in the upper left-hand corner of the screen, and icons for an optional memory card if installed (the **SD** icon) and the battery level are shown in the upper right-hand corner of the screen.







Selecting Images for Printing

The **Print**  button on the back of the camera allows you to set how many copies of a still image you want to have printed automatically the next time you connect the camera to your computer or directly to any HP Photosmart or PictBridge-compatible printers.

NOTE You can select only individual images in a panoramic sequence for printing via the **Print** button. Even if you select all the images in a panoramic sequence individually using the **Print** button, only the individual images will print the next time you connect your camera to your computer or printer. To print an entire panoramic sequence of images instead, see **Printing Panoramas** on page 111.

You can use the **Print**  button any time that you see a still image displayed on the Image Display, such as during **Playback**, or when you access the main **Playback Menu** or the **HP Instant Share Menu**.

To select a still image for direct print:

- 1 Press the **Print**  button.
- 2 Use the   buttons to set the number of copies you want to print. The maximum number of copies is 99. The printer  icon with the number of copies that you set appears in the lower right-hand corner of the image.





The next time you connect the camera to your computer or printer, the images you have selected will print automatically (see **Chapter 5: Transferring and Printing Images** on page 109).





Viewing Thumbnails






Thumbnail view allows you to 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.

NOTE In **Thumbnail** view, each image in a panorama displays individually. To preview an entire panoramic sequence of images, see **Preview Panorama** on page 95.

- 1 While in **Playback** (page 80), press **Thumbnails**  (same as **Zoom Out** ) on the **Zoom** lever. 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 Press 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 each thumbnail, an **HP Instant Share**  icon signifies that the still image is selected for one or more **HP Instant Share** destinations, a printer  icon signifies that it is selected for printing, a panorama  icon indicates the image is part of a panoramic sequence, a Video  icon signifies that this is a video clip, and an Audio  icon signifies that an audio clip is attached to this still image.

Magnifying Images







NOTE This feature only works on still images; it does not work with video clips. Also, this feature is for viewing purposes only; it does not permanently alter the image.

- 1 While in **Playback** (page 80), press **Magnify**  (same as **Zoom In** ) on the **Zoom** lever. The currently displayed image is automatically magnified 2x. The center portion of the magnified image is displayed along with four arrows, which indicate that you can pan around the magnified image.
- 2 Use the   and   buttons to pan around the magnified image.
- 3 Use  **Zoom In** and  **Zoom Out** to increase or decrease the magnification.
- 4 Press the **Menu/OK** button to exit **Magnify** view and return to **Playback**. The current image is displayed in full view on the Image Display again.

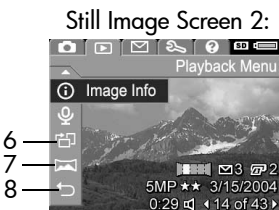
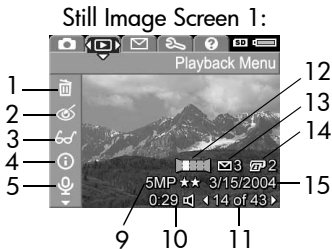


Using the Playback Menu









The **Playback Menu** allows you to delete still images or video clips, undelete images, format the camera's internal memory or optional memory card, and remove red eyes from still images. Additionally, you can get **HP Image Advice** (an analysis of an image which identifies problems with focus, exposure, and so forth), view all the settings you used when you captured an image or video clip, record audio clips to attach to an image, rotate images, and preview panoramic sequences of images.




- 1** To display the **Playback Menu**, press the **Menu/OK** button while you are in **Playback**. If you are not currently in **Playback**, press the **Playback**  button first, then press the **Menu/OK** button.
- 2** Move to the image or video clip you want to use by pressing the   buttons. This makes it easy to perform the same action on several images or video clips, such as deleting multiple images or video clips.
- 3** Use the   buttons to highlight the **Playback Menu** options on the left of the Image Display. Select a highlighted option by pressing the **Menu/OK** button. Each of the **Playback Menu** options are explained later in this section.
- 4** Use one of several ways to exit the **Playback Menu**. If, immediately after entering the **Playback Menu**, you decide not to change anything, simply press **Menu/OK** again to exit the menu. After you have used the **Playback Menu**, you can navigate to another menu via the menu tabs at the top of the Image Display. You can also select the  **Exit** option and press **Menu/OK**. If you want to return to **Playback**, or switch to another camera state, press the appropriate button on the back of the camera.

The following table summarizes each of the **Playback Menu** options and describes the information in the bottom right corner of each image or video clip while the **Playback Menu** is displayed.



#	Icon	Description
1		Delete - Presents a sub-menu where you can delete this image or video clip, delete the entire panoramic sequence of images, 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 89.)
2		Remove Red Eyes - Corrects the red effect which appears in the eyes of human subjects in still images. (See Remove Red Eyes on page 91.)

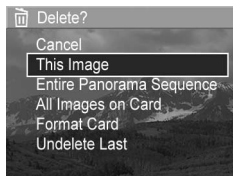
#	Icon	Description
3		Image Advice - Provides an analysis of the image which identifies problems with focus, exposure, and so forth. Also provides recommendations on how to improve similar images in the future. (See Image Advice on page 92.)
4		Image Info - Allows you to view all of the settings that were used when capturing this image. (See Image Info on page 92.)
5		Record Audio - Records an audio clip to attach to this still image. (See Record Audio on page 94.)
6		Rotate - Rotates the currently displayed still image 90 degrees clockwise. (See Rotate on page 95.)
7		Preview Panorama - Displays a low-resolution, stitched image of the currently selected panorama. (See Preview Panorama on page 95.)
8		EXIT - Exits the Playback Menu .
9	5MP ★★	Shows the Image Quality setting that was used to take this image, or blank if it is a video clip. (See Image Quality on page 58.)
10	0:29 	Visible if this image has an audio clip attached to it, with the length of the audio clip displayed to the left of the icon.
11	14 of 43	Shows the number of this image or video clip out of the total number of images and video clips in internal memory or on an optional memory card.
12		Indicates this image is the second image in a panoramic sequence of images that was taken using the Panorama shooting mode. (See Using Panorama Mode on page 49.)

#	Icon	Description
13	 3	Indicates this image has been selected to be sent to 3 destinations using HP Instant Share . (See Chapter 4: Using HP Instant Share on page 97.)
14	 2	Indicates this image has been selected for printing 2 copies. (See Selecting Images for Printing on page 83.)
15	3/15/ 2004	Shows the date that this image was captured or this video clip was recorded.
16	0:37 	Visible if this is a video clip, with the length of the video clip displayed to the left of the icon.

Delete

In the **Playback Menu** (page 86), when you select **Delete**, the **Delete** sub-menu displays. The **Delete** sub-menu provides the following options:

- **Cancel**—Returns you to the **Playback Menu** without deleting the image.
- **This Image**—Deletes the currently displayed image or video clip.



NOTE When one shot from the center of a panoramic sequence is deleted, all of the panorama tags are removed, therefore breaking the panoramic sequence. These images are now considered individual still images. However, if you delete an image from the beginning or end of the panorama, and there are at least 2 images remaining, the panoramic sequence is preserved.

- **Entire Panorama Sequence**—Deletes all images associated with the panoramic sequence.
- **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.
- **Undelete Last**—Recovers the most recently deleted image.

NOTE You can recover only the most recent delete operation, including entire panoramic sequences. Once you proceed to another operation, for example, powering off the camera or taking another picture, the delete operation you performed is permanent, and the image is no longer recoverable.

Also, you cannot **Undelete** a **Delete All Images** operation.

Use the ▲ ▼ buttons to highlight an option, and then press the **Menu/OK** button to select it.

Remove Red Eyes

NOTE This menu option is only available for still images that were taken with a flash.

In the **Playback Menu** (page 86), when you select **Remove Red Eyes**, the camera immediately begins processing the still image to remove red eyes from the subjects in the image. The red-eye removal process takes a few seconds. After processing is complete, the corrected image displays, along with the **Remove Red Eyes** sub-menu, which lists three options:

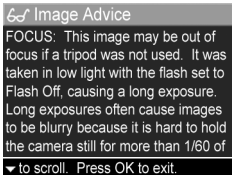
- **Save Changes**—Saves the red eye changes and returns to the **Playback Menu**.
- **View Changes**—Displays a view of the image which has green boxes around the portions that were corrected for red eyes. You can zoom in and pan around the image in this view. To return to the **Remove Red Eyes Menu**, press the **Menu/OK** button.
- **Cancel**—Returns to the **Playback Menu** without saving the red eye changes.

Image Advice

NOTE This menu option is not available for video clips or for images that were copied to the camera.

In the **Playback Menu** (page 86), when you select **Image Advice**, the camera checks the image for any problems with focus, exposure, and so forth.

If there are any problems, an analysis appears on the Image Display listing the problem, its cause, and the recommended solution for images taken in the future, as shown in the example screen here. If **Image Advice** finds more than one problem with the image, the two most severe problems will be displayed, one per category.

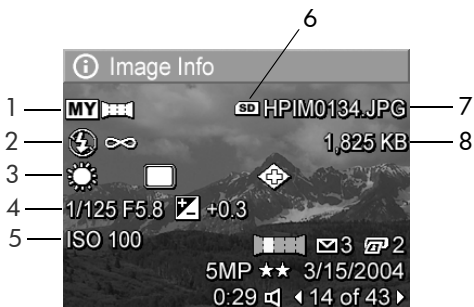


To exit the **Image Advice** screen, press **Menu/OK**.

Image Info

In the **Playback Menu** (page 86), when you select **Image Info**, the **Image Info** screen displays. This screen shows all of the settings that were used when capturing the currently displayed image or video clip.

The following table explains the information that is displayed for each image when you select the **Image Info** option.




NOTE The information in the last three rows in the bottom, right-hand corner of the image is the same information that is provided in the **Playback Menu** view of the image.

#	Description
1	Non-default shooting mode (Action, Landscape, Portrait, Beach/Snow, Sunset, Aperture Priority, Panorama, Document, My Mode)
2	Non-default Flash setting (Red-Eye, Flash On, Flash Off, Night) and non-default Focus setting (Macro, Infinity, Manual Focus)
3	All non-default Capture Menu settings
4	F-number (aperture), shutter speed, and EV Compensation setting
5	ISO Speed setting
6	Displays only when an optional memory card is installed in the camera
7	File name of the image in internal memory or on an optional memory card
8	File size of the image in internal memory or on an optional memory card

Record Audio

NOTE This menu option is not available for video clips.

To record an audio clip for a still image that does not already have an audio clip attached to it:

- 1 In the **Playback Menu** (page 86), select **Record Audio**. Audio recording starts immediately after you select this menu option. A microphone  icon and an elapsed time counter are displayed during recording.
- 2 To stop recording, press **Menu/OK**; otherwise the audio continues to record until the camera runs out of memory. When recording stops, the display returns to the **Playback Menu**.

NOTE Audio clips can be attached to single panorama images in a sequence, but are not attached to the final stitched panoramic file.

If the currently displayed image already has an audio clip attached to it, when you select **Record Audio**, the **Record Audio** sub-menu is displayed instead. The **Record Audio** sub-menu lists several 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**.

Rotate

NOTE This menu option is not available for video clips or for still images that were captured in **Panorama** mode.

In the **Playback Menu** (page 86), when you select **Rotate**, the currently displayed image is automatically rotated 90 degrees clockwise. The image then displays and is saved in its new orientation. You can select **Rotate** as many times as needed to gain the orientation of the image you want.

Preview Panorama

NOTE This menu option is only available for images in a panorama.

Preview Panorama displays a low-resolution, stitched image of a panoramic sequence of images.

- 1 Use the ◀▶ buttons to scroll to one of the images in a panoramic sequence of images.
- 2 In the **Playback Menu** (page 86), select **Preview Panorama**.

The center of the panoramic sequence displays first, and the right and left side of the sequence appear cropped by the boundaries of the screen. Use the ◀▶ buttons to scroll to the left and right of the image to review the entire panoramic sequence. Press **Menu/OK** to exit the **Preview Panorama** option and return to the **Playback Menu**.

Chapter 4:

Using HP Instant Share

This camera has an exciting feature called **HP Instant Share**. This feature allows you to easily select still images in your camera to be automatically sent to a variety of destinations the next time you connect the camera to your computer. For example, you can select images in your camera to be automatically sent to e-mail addresses (including group distribution lists), online albums, or other online services the next time you connect the camera to your computer.

NOTE Available online services vary by region.

Once you have taken still pictures with your camera, using **HP Instant Share** is as easy as 1-2-3!

- 1** Set up the **HP Instant Share Menu** on your camera, as explained in the next section starting on page 98.
- 2** Use the **HP Instant Share Menu** to select images in your camera for particular **HP Instant Share** destinations. First see **Using the HP Instant Share Menu** on page 103, and then see **Selecting All Images for HP Instant Share Destinations** on page 104 or **Selecting Individual Images for HP Instant Share Destinations** on page 106.
- 3** Connect the camera to your computer and transfer the images as explained in **Transferring Images to a Computer** on page 109. Once the images are transferred to your computer, they will be automatically sent to their respective **HP Instant Share** destinations.




NOTE Visit www.hp.com/go/instantshare to see **HP Instant Share** in action.


Setting Up the HP Instant Share Menu on the Camera

Before you can use **HP Instant Share**, you must first set up the **HP Instant Share Menu** on your camera. The following procedure explains how to do this.

NOTE You will need an Internet connection to complete this procedure on a Windows computer. Macintosh users, however, will not need an Internet connection.

NOTE If you have an optional memory card installed in your camera, make sure that the memory card in your camera is not locked and has some free space on it.

- 1 Make sure that the HP Image Zone software is installed on your computer (see page 19).
- 2 Turn on the camera, and then press the **HP Instant Share**  button on the back of the camera.
- 3 The **HP Instant Share Menu** appears on the Image Display. Use the  button to scroll to the bottom of the list in the **HP Instant Share Menu**, highlight **HP Instant Share Setup...** , and press the **Menu/OK** button.



Once you have selected **HP Instant Share Setup...** , a message appears on the Image Display asking you to connect the camera to your computer.

NOTE If your computer is running Windows XP, when you connect the camera to your computer in the next step, a dialog box may display that requests you to **Select the program to launch for this action**. Simply click **Cancel** to close this dialog box.

4 Connect the camera to your computer by using either the special USB cable for connecting the camera to a computer that came with your camera, or the optional HP Photosmart R-series dock:

- Connect the camera to the computer with the USB cable by connecting the larger end of the cable to the computer, and connecting the small end of the cable to the USB connector behind the rubber door on the side of the camera.



- Connect the camera to the computer with an optional HP Photosmart R-series dock by putting the camera in the dock and pressing the **Save/Print** /  button on the dock.

This activates the camera **HP Instant Share Menu** setup wizard on your computer. See **Setting Up Destinations on a Windows Computer** on page 100 or **Setting Up Destinations on a Macintosh Computer** on page 101 for instructions for your computer.

Setting Up Destinations on a Windows Computer

- 1 At the **Welcome** screen, click **Start**.
- 2 The **Set Up Your HP Instant Share Destinations** screen appears. Any **HP Instant Share** destinations you have already set up will be listed here. Click **Create** to add a new destination to your camera **HP Instant Share Menu**.
- 3 The **Go Online** screen appears, prompting you to connect to your Internet service provider. Connect to the Internet, if not already online, and click **Next**.
- 4 Sign in to your secure **HP Instant Share** account:
 - If this is your first time using **HP Instant Share**, the **One-Time Setup - Region and Terms of Use** screen appears. Select your region, read and agree to the Terms of Use, and click **Next** to continue. Then follow the instructions to register for a secure **HP Instant Share** account.
 - If you have used **HP Instant Share** before, sign in to your **HP Instant Share** account.

Click **Next** to continue.

- 5 Choose an **HP Instant Share Service** for your destination. Click **Next**, and follow the instructions to set up the service to be used when you select this destination.
- 6 When you finish setting up the service for this destination, you are returned to the **Set Up Your HP Instant Share Destinations** screen, and the name of your new destination appears in the list of destinations.

NOTE You can configure a maximum of 34 **HP Instant Share** destinations (such as individual e-mail addresses or group distribution lists) that can be listed in the **HP Instant Share Menu** on your camera.

- 7 Click **Create** to add another destination (repeating steps 2, 5, and 6 above), or select a destination and do one of the following:
 - Click **Edit** to modify the destination.
 - Click **Remove** to delete the destination.
- 8 When you have finished adding **HP Instant Share** destinations, click **Save to my camera**. The new destinations are then saved to the camera's **HP Instant Share Menu**. When the computer confirms they have been saved to your camera, disconnect the camera from the computer.


Setting Up Destinations on a Macintosh Computer

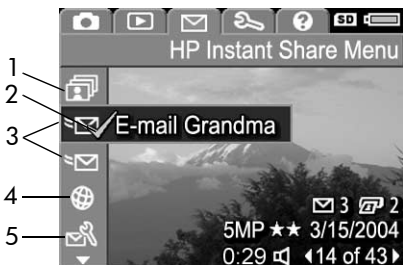
- 1 At the **Modify Share Menu** screen, any **HP Instant Share** destinations you have already set up will be listed. Click **Add** to add a new destination to your camera's **HP Instant Share Menu**.
- 2 The **New Share Menu Item** screen appears. Enter a name for the destination in the **Menu Item Name** field, and do either of the following:
 - Select **Use my local e-mail application** to send images directly to the e-mail address(s) you specify below in this screen without using **HP Instant Share**.
 - Select **Use HP Instant Share e-mail and services** to create an **HP Instant Share** destination.
- 3 Click **OK** to add the new destination to the camera's **HP Instant Share Menu**. You are returned to the **Modify Share Menu** screen, and the name of your new destination appears in the list of destinations.




NOTE You can configure a maximum of 34 **HP Instant Share** destinations (such as individual e-mail addresses or group distribution lists) that can be listed in the **HP Instant Share Menu** on your camera.



- 4 Click **Add** to add another destination (repeating steps 2 & 3), or select a destination and do one of the following:
 - Click **Edit** to modify the destination.
 - Click **Remove** to delete the destination.
- 5 When you have finished adding destinations, click **Update Camera**. The new destinations are then saved to the camera's **HP Instant Share Menu**. When the computer confirms they have been saved to your camera, disconnect the camera from the computer.

Using the HP Instant Share Menu

Once you have set up the **HP Instant Share Menu** on the camera (see page 98), you can now use the **HP Instant Share Menu**. When you press the **HP Instant Share**  button on the camera, the most recently taken or viewed image appears on the Image Display. The **HP Instant Share Menu** also displays on the left side of the screen. The following table describes each of the **HP Instant Share Menu** options as shown in the following example **HP Instant Share** screen.






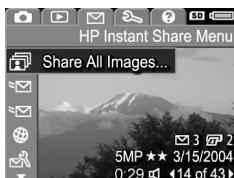
#	Icon	Description
1		Share All Images... lets you share all still images in internal memory or on an optional memory card to the selected destinations.
2		Check mark indicates this destination has been selected for the currently displayed image. (You can select more than one destination per image.)
3		E-mail destinations that were set up in this example HP Instant Share Menu .

#	Icon	Description
4		A website destination that was set up. Other types of destinations may have different icons.
5		HP Instant Share Setup... lets you add more e-mail and other HP Instant Share destinations to the HP Instant Share Menu . (See Setting Up the HP Instant Share Menu on the Camera on page 98.)




Selecting All Images for HP Instant Share Destinations

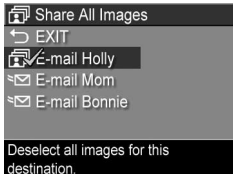
To select **HP Instant Share** destinations for all still images in internal memory or on an optional memory card:

- 1 Turn on the camera, and then press the **HP Instant Share**  button.
- 2 Use the  button to highlight  **Share All Images**.
- 3 Press the **Menu/OK** button to display the **Share All Images** sub-menu.














NOTE If you have not yet set up destinations for **HP Instant Share**, a message appears offering you help in setting up your destinations. Follow the instructions to set up your **HP Instant Share** destinations.

- 4 Use the ▲ ▼ buttons to scroll to the destination that you want to select in the **Share All Images** sub-menu, and press the **Menu/OK** button. The **Share All Images**  icon appears beside the selected destination, and a ✓ appears over the destination. To deselect the destination, press the **Menu/OK** button again.
- 5 Repeat step 4 to select any additional **HP Instant Share** destinations for all of the images in internal memory or on an optional memory card.
- 6 When you are finished selecting all of the **HP Instant Share** destinations for your images, select  **EXIT** to return to the **HP Instant Share Menu**.
- 7 Press the **HP Instant Share**  button again to exit the **HP Instant Share Menu**.
- 8 Connect the camera to your computer and transfer the images as explained in **Transferring Images to a Computer** on page 109. Once the images are transferred to your computer, they will be sent automatically to the **HP Instant Share** destinations. Macintosh users will need to add addressing information for their **HP Instant Share** destinations before the images and messages can be sent.



Selecting Individual Images for HP Instant Share Destinations

NOTE You can select each still image for any number of HP Instant Share destinations. However, you cannot select video clips for any HP Instant Share destinations, and images within a panoramic sequence selected for HP Instant Share destinations will be sent as individual images.

- 1 Turn on the camera, and then press the **HP Instant Share**  button.
- 2 Use the   buttons to scroll to the destination in the **HP Instant Share Menu** that you want to select, such as an e-mail destination.
- 3 Use the   buttons to scroll to a still image for which you want to select this **HP Instant Share** destination.
- 4 Press the **Menu/OK** button to select the destination, and a  appears over that destination in the **HP Instant Share Menu**. To deselect the destination, press the **Menu/OK** button again.
- 5 Repeat steps 3 and 4 to select any other **HP Instant Share** destinations for this image.
- 6 Scroll to other images by using the   buttons, and repeat steps 3 through 5 to select **HP Instant Share** destinations for each of the other images. You can also use the   buttons to scroll to other images to review their destinations.
- 7 When you are finished selecting all of the **HP Instant Share** destinations for your images, press the **HP Instant Share**  button again to exit the **HP Instant Share Menu**.

- 8 Connect the camera to your computer and transfer the images as explained in **Transferring Images to a Computer** on page 109. Once the images are transferred to your computer, they will be automatically sent to their respective **HP Instant Share** destinations. Macintosh users will need to add addressing information for their **HP Instant Share** destinations before the images and messages can be sent.

How HP Instant Share E-mails Images

The way images are e-mailed via **HP Instant Share** works much the same on Windows and Macintosh computers.

Images are not e-mailed as attachments. Rather, a message is sent to each e-mail address that you selected in the **HP Instant Share Menu**. The message contains thumbnail images of the pictures you selected for that address, as well as a link to a web page where the recipient can view the images. From that web page, the recipient can do things like reply to you, print the images, save images to their computer, forward images, and more. This makes it easy for people who use different e-mail programs to be able to see your images without the difficulty of dealing with e-mail attachments.

On Windows, the process of e-mailing images via **HP Instant Share** is fully automated: once you have selected your destinations, messages will be sent to each of your recipients and the images will be posted on the web page when you transfer the images from the camera to the computer.

On Macintosh, the process of e-mailing images is not automatic. After images marked with **HP Instant Share** destinations are transferred to your Macintosh, they will be displayed in the **HP Instant Share** application. Simply follow the instructions in the **HP Instant Share** application to send your messages and post your images on the web page.

Chapter 5: Transferring and Printing Images

Transferring Images to a Computer

NOTE You can also use the optional HP Photosmart R-series dock to do this task. See the dock User's Manual for instructions.

1 Confirm the following:

- The HP Image Zone software is installed on your computer (see **Installing the Software** on page 19). To transfer images to a computer that does not have the HP Image Zone software installed on it, see **Using Your Camera without Installing the HP Image Zone Software** on page 125.
- If you are using a Macintosh computer, the camera's **USB Configuration** is set to **Disk Drive** in the **Setup Menu** (see **USB Configuration** on page 119.)
- If images on the camera are selected for printing or selected for **HP Instant Share** destinations, make sure the computer is connected to a printer and/or the internet.

2 Turn off the camera.

- 3 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.
- 4 Open the rubber door on the side of the camera and connect the small end of the USB cable to the USB connector on the camera.



NOTE If your computer is running Windows XP, when you turn on the camera in the next step, a dialog box will display that requests you to **Select the program to launch for this action**. Simply click **Cancel** to close this dialog box.

- 5 Turn on the camera. The HP Image Transfer software will launch on your computer. If you have set the software to automatically transfer the images in the camera, the images will automatically transfer to the computer. Otherwise, in the **Welcome** screen, click **Start Transfer**. The images are transferred to the computer, and then if there are any still images that were previously selected for printing (page 83) or selected for **HP Instant Share** destinations (page 97), those actions are started.

NOTE If the images being transferred to your computer include a panoramic sequence of images (see **Using Panorama Mode** on page 49), the ArcSoft Panorama Maker software starts automatically. Follow the instructions on the screen to stitch the images in the panoramic sequence together as a single panoramic image on your computer.

- 6 When the transfer screen on the computer says **Finished** or **Transfer Complete**, you can disconnect the camera from the computer.

Printing Panoramas

When a set of images marked as a panoramic sequence is transferred to your computer with **HP Image Transfer**, the ArcSoft Panorama Maker application that was installed with the **HP Image Zone** software on your computer automatically stitches the images together to form a single panoramic image. This panoramic image can then be printed from Panorama Maker or from **HP Image Zone**.

Printing Panoramas from Panorama Maker

To print a panoramic image from Panorama Maker:

- 1 Start the ArcSoft Panorama Maker application installed on your computer.
- 2 Click **Open**, and browse to the panoramic image file on your computer's hard disk.

NOTE The panoramic image file name is the same as the name of the last image in the panoramic sequence, with **"-P"** added to the file name.

- 3 Click **Print**, select a printer, and specify the desired format for printing the image.


Printing Panoramas from HP Image Zone

To print a panoramic image from **HP Image Zone**:

- 1 Start the **HP Image Zone** application on your computer.
- 2 In the **My Images** tab, select the panoramic image, and do one of the following:
 - Select **Print**, and then select **Quick Prints**. Click **Fit To Page**, and click **Print**.
 - Select **Print**, and then select **Photo Prints**. In the **Advanced** section, specify the **Custom Size** dimensions that will produce the desired output (use the **Preview** button to confirm), and click **Print**.
 - Select the **Edit** tab, select **Print**, and then select **Current Image**. Click **Fit To Page**, and click **Print**.

Printing Images Directly from the Camera

NOTE You can also use the optional HP Photosmart R-series dock to do this task. See the dock User's Manual for instructions.

You can connect the camera directly to any HP Photosmart printer or PictBridge-compatible printer to print images. You can then print either all images in the camera, or just those images you have selected using the **Print**  button on the camera (see **Selecting Images for Printing** on page 83).

NOTE Printing only works with still images; it does not work with video clips. Also, images within a panoramic sequence can be printed individually directly from the camera, but you cannot print an entire panorama from the camera. To print a panorama, see **Printing Panoramas** on page 111.

- 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.
- 2 Connect your camera to the printer.







- If you are printing directly to an HP printer that does *not* display the PictBridge logo (see below), use the special USB cable for connecting the camera directly to an HP printer. Connect the square end of that USB cable to the HP printer.



- If you are connecting the camera to a printer displaying the PictBridge logo (see right) from HP or another manufacturer, use the USB cable that came with your camera for connecting to the computer, instead. Connect the larger end of that USB cable to the PictBridge-compatible printer.



NOTE HP does not support printers from other manufacturers. If your printer will not print, contact the manufacturer of your printer.

- 3 Open the rubber door on the side of the camera and connect the small end of the USB cable to the USB connector on the camera.
- 4 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 **Print**  button, the number of images selected is shown. Otherwise, **Images: ALL** is displayed. To select or change the selections of images to print, press the **Print** button, scroll through the images using the   buttons, then use the   buttons to adjust the number of copies for each image. When satisfied with your selections, press the **Print**  button again to return to the **Print Setup** menu.
- 5 If all the settings in the **Print Setup** menu look correct, press **Menu/OK** on the camera to begin printing. Or, you can change settings in the **Print Setup** menu using the arrow keys on the camera, then follow instructions on the screen to begin printing.



NOTE There is a print preview in the lower right-hand corner of the **Print Setup** screen showing the page layout that will be used for printing images. This print preview updates as you change the settings for the **Print Size** and **Paper Size**.

Chapter 6: Using the Setup Menu

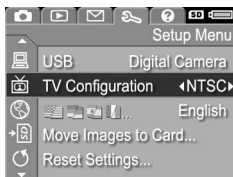
The **Setup Menu** allows you to adjust a number of camera settings, such as the camera sounds, date and time, and the configuration of the USB or TV connection.

- 1 To display the **Setup Menu**, first display any other menu (see **Camera Menus** on page 28) and then use the ◀ ▶ buttons to move to the menu tab for the **Setup Menu** ⌨.

Screen 1:



Screen 2:



- 2 Use the ▲ ▼ buttons to scroll through the **Setup Menu** options.
- 3 Either press the **Menu/OK** button to select a highlighted option and display its sub-menu, or use the ◀ ▶ buttons to change the setting for the highlighted option without going to its sub-menu.
- 4 Within a sub-menu, use the ▲ ▼ buttons and then the **Menu/OK** button to change the setting for the **Setup Menu** option.
- 5 To exit the **Setup Menu**, highlight the ↶ EXIT option and press the **Menu/OK** button.

Display Brightness

This setting lets you 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.

- 1 In the **Setup Menu** (page 115), 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 **Menu/OK** 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.

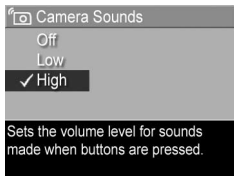
Camera Sounds

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 **High**.

- 1 In the **Setup Menu** (page 115), select **Camera Sounds**.

- 2 In the **Camera Sounds** sub-menu, highlight the volume level you prefer.
- 3 Press **Menu/OK** to save the setting and return to the **Setup Menu**.



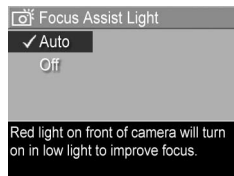
The new setting remains in effect until it is changed again, even when you turn the camera off.

Focus Assist Light

Sometimes in low-light situations, the camera will use the red focus assist light on the front of the camera to aid in focusing. This setting allows you to turn off this light (for example, when you do not want the focus assist light to distract the subject of your picture).

The default **Focus Assist Light** setting is **Auto**.

- 1 In the **Setup Menu** (page 115), select **Focus Assist Light**.
- 2 In the **Focus Assist Light** sub-menu, highlight **Auto** or **Off**.
- 3 Press **Menu/OK** to save the setting and return to the **Setup Menu**.



NOTE HP recommends leaving this setting at **Auto**, since turning it off hinders the ability of the camera to focus correctly in low light.

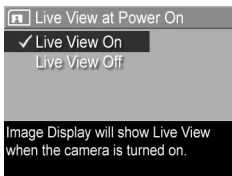
The new setting remains in effect until it is changed again, even when you turn the camera off.

Live View at Power On

This setting allows you to have the camera automatically display **Live View** every time you turn the camera on, or to have the Image Display turned off every time.

NOTE Setting **Live View at Power On** to **Off** can save battery power.

- 1 In the **Setup Menu** (page 115), select **Live View Setup**.
- 2 In the **Live View at Power On** sub-menu, highlight **Live View On** or **Live View Off**.
- 3 Press **Menu/OK** 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, or if the date and time is incorrect.

NOTE The date/time format chosen will be used to display the date information in **Playback**. Also, this format chosen in this setting is what is used in the date & time imprint feature (see **Date & Time Imprint** on page 76).

- 1 In the **Setup Menu** (page 115), 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 **Menu/OK** to save the setting and return to the **Setup Menu**.

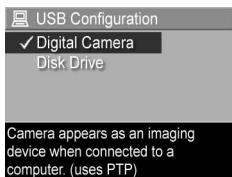


The new setting remains in effect until it is changed again, even when you turn the camera off.

USB Configuration

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

- 1 In the **Setup Menu** (page 115), 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.
 - **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 computer that does not have the HP Image Zone software installed on it (see **Transferring Images to a Computer without HP Image Zone Software on page 126**). This setting may not work with a



Windows 98 computer that does not have the HP Image Zone software installed on it.

- 3 Press **Menu/OK** 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.

TV Configuration

This setting allows you to set the format of the video signal for displaying camera images on a television (TV) that is connected to the camera with an optional HP Photosmart R-series camera dock.

The default **TV Configuration** setting depends on the language that you selected when you turned on the camera for the first time.

- 1 In the **Setup Menu** (page 115), select **TV Configuration**.
- 2 In the **TV Configuration** sub-menu, highlight one of these two choices:
 - **NTSC**—Format used primarily in North America and Japan
 - **PAL**—Format used primarily in Europe




- 3 Press **Menu/OK** 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.

For more information on connecting the camera to a TV, see the User's Manual for the HP Photosmart R-series camera dock.

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 115), select .
- 2 In the **Language** sub-menu, highlight the language you want to use.
- 3 Press **Menu/OK** 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

The **Move Images to Card** 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.

In the **Setup Menu** (page 115), if you press **Menu/OK** when the **Move Images to Card** option is highlighted and there is room on the memory card, a confirmation screen appears explaining that there is enough room to move all internal files to the memory card. If only some of the images will fit, then a confirmation screen appears explaining how many images in internal memory can be moved to the memory card. If no images can be moved to the memory card, then the screen displays **CARD FULL**.

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. Once 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** In the **Setup Menu** (page 115), select **Reset Settings...**
- 2** 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**, **TV Configuration**, and **USB Configuration**).
- 3** Press **Menu/OK** to reset settings and return to the **Setup Menu**.

Chapter 7: Troubleshooting and Support

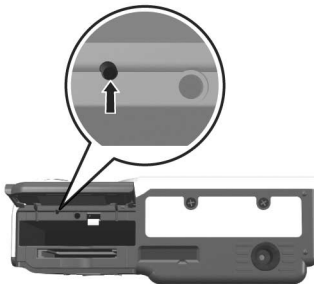
This chapter contains information on the following topics:

- Resetting the camera (page 124)
- Using the camera without installing the HP Image Zone software (page 125)
- Possible problems, causes, and solutions (page 131)
- Error messages on the camera (page 142)
- Error messages on the computer (page 151)
- Self-diagnostic tests on the camera (page 154)
- How to get assistance from HP (page 154)

Resetting the Camera

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

- 1** Holding the camera upside down with the back of the camera facing you, open the battery/memory card door on the bottom of the camera.
- 2** Remove the battery from the camera, and make sure the HP AC power adapter is not connected to the camera.
- 3** The Reset switch is the small hole located above the battery slot, as shown. Press the straightened end of a paper clip into the Reset switch until the switch is depressed, and hold it down for approximately three seconds, then remove the paper clip. The camera is now reset.
- 4** Reinsert the battery and close the battery/memory card door. You may now use the camera again.



Using Your Camera without Installing the HP Image Zone Software

If you do not, or cannot, install the HP Image Zone software on your computer for some reason (such as there is not enough RAM in your computer, or your computer is not running a supported operating system), you can still use your camera to take pictures and video clips. However, some of the things you can do with the camera will be affected:

- The **HP Instant Share** feature depends on the HP Image Zone software, so if the software is not installed on your computer, you will not be able to use the **HP Instant Share** feature on the camera.
- The **Panorama** shooting mode on the camera uses the ArcSoft Panorama Maker component of the HP Image Zone software to automatically stitch images together in the computer. Therefore, if the software is not installed on your computer, images taken in **Panorama** mode will not be automatically stitched into a panorama when you transfer the images to your computer. However, you can still use **Panorama** mode in the camera to take sequences of pictures that you want to make into a panoramic image later. You will simply need to use some other kind of image stitching software to create the panorama on your computer.
- Images you have marked for printing using the **Print** button on the camera will not automatically print out when the camera is connected to the computer. However, this feature will still work in the following scenarios:
 - When you connect the camera directly to a printer.

- If your printer has a memory card slot in it, and if you are using a memory card in your camera, you can simply remove the memory card from the camera and insert it in the memory card slot in the printer.
- The process for transferring images and video clips from the camera to your computer will be different, since normally the HP Image Zone software handles this task. See the following section for details.

Transferring Images to a Computer without HP Image Zone Software

NOTE If you have a Windows Me or XP system, you do not need to read this section. Simply connect the camera to your computer with the USB cable, and the operating system will launch a program to help you transfer images.

If you do not, or cannot, install HP Image Zone on your computer, there are two ways to transfer images from your camera to the computer: using a memory card reader, or configuring the camera as a disk drive.

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

- 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 will show a list of disk drives under **My Computer**. The memory card will show up as a disk drive called **Removable Disk** (or something similar). Click on the + sign just to the left of **Removable Disk**.
- 4** Two directories (folders) should appear under **Removable Disk**. Click on the + sign next to the folder called **DCIM**, and a subdirectory 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.
- 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 that you copied in step 5 should then get pasted into this new folder on your computer's hard drive. To check to see if 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 Once 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).

Transferring Images to a Macintosh Computer

- 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 the configuration and/or version of the Mac OS X operating system you are running, either an application called Image Capture or one called 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 itself, so to access them later, just start up iPhoto.
 - If no application launches automatically, 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

NOTE This method may not work with Windows 98 computers.

This method sets up your camera to function as a disk drive when it is connected to your computer.

- 1 Set your camera to **Disk Drive** mode (you only need to do this step once):
 - a. Turn the camera on, and then press the **Menu/OK** button to display the **Capture Menu**.
 - b. Use the **▶** button to navigate to the **Setup Menu**.
 - c. Use the **▼** button to highlight the **USB** menu option, and then press **Menu/OK**.
 - d. Use the **▼** button to select **Disk Drive**, and then press **Menu/OK**.
 - e. Use the **▼** button to highlight **EXIT**, and then press **Menu/OK**.
- 2 Once your camera is set to **Disk Drive** mode, connect the camera to your computer using the USB cable
- 3 At this point, the process for transferring images is the same as described in the section **Using a Memory Card Reader** on page 126. 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.

NOTE On Macintosh computers, if either Image Capture or iPhoto do not launch automatically, look on the desktop for a disk drive icon with the label **HPxnnn** (where **xnnn** is the model of the camera). For more information about how to copy files, visit Mac help, the help system included with your computer.

Problems and Solutions


Problem	Possible cause	Solution
The camera does not turn on.	The battery is functioning incorrectly, is dead, is installed incorrectly, or is missing.	<ul style="list-style-type: none">● The charge in the battery could be low or completely drained. Try installing a new or recharged battery.● Ensure that the battery is inserted correctly (page 14).● Ensure that you are using the correct type of battery. For best results, use only a rechargeable HP Photosmart R07 lithium ion battery for HP Photosmart R-series cameras (L1812A) or a disposable Duracell CP1 battery.
	If you are using the HP AC power adapter, it is not connected to the camera, or is not plugged into a power outlet.	Ensure that the HP AC power adapter is connected to the camera and is plugged into a working electrical outlet.
	The HP AC power adapter is not functioning correctly.	Ensure that the HP AC power adapter is not damaged or defective and is plugged into a working electrical outlet.
	The camera has stopped operating.	Reset the camera (see Resetting the Camera on page 124).





Problem	Possible cause	Solution
The battery gauge goes up and down frequently.	Different operating modes of the camera require different power levels.	See Battery Gauge on page 168 for a full explanation.
I have to recharge the lithium ion battery frequently.	Extended Image Display use for Live View or video recording, excessive flash use, and excessive zooming consume a lot of battery power.	See Extending Battery Life on page 164.
	The lithium ion battery you are using was recharged incorrectly.	A lithium ion battery is not fully charged when new, and it discharges over time whether or not it is installed in a camera. A battery that is new or has not been charged recently must be recharged to reach full capacity (see Appendix A: Managing Batteries on page 163).

Problem	Possible cause	Solution
I have to recharge the lithium ion battery frequently (continued).	The lithium ion battery has drained on its own because it has not been used lately.	A lithium ion battery discharges on its own when not in use and when not installed in the camera. So, if you have not used it in two months or more, it may benefit from being charged (see Appendix A: Managing Batteries on page 163).
The lithium ion battery will not charge.	Battery is already charged.	Battery charging will not start if the battery was recently charged. Try charging it again after it has drained awhile.
	The wrong AC power adapter is being used.	Use only the HP AC power adapter approved for use with this camera (see Appendix B: Purchasing Camera Accessories on page 173).
	Battery voltage is too low for charging to start.	The camera will not attempt to charge a battery that may be damaged or over-discharged. Remove the battery from the camera and charge it in the HP Quick Recharger for R-series cameras or the spare battery charging bay of the dock (both purchased separately), then try it in the camera again. If this does not work, it is likely that the battery is bad. Purchase a new lithium ion battery and try again. (See Appendix B: Purchasing Camera Accessories on page 173)



Problem	Possible cause	Solution
The lithium ion battery will not charge (continued).	The battery is damaged or bad.	A lithium ion battery degrades over time and can fail. If the camera detects a problem with the battery, it will not start charging or will stop charging prematurely. Purchase a new battery. (See Appendix B: Purchasing Camera Accessories on page 173)
	Battery is not inserted correctly.	Ensure that the battery is inserted correctly (see page 14).
The camera does not respond when I press a button.	The camera is turned off or has shut down.	Turn on the camera.
	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 battery is drained.	Replace or recharge the battery.
	The camera has stopped operating.	<ul style="list-style-type: none"> ● If the AC adapter is connected to the camera, disconnect it. Then reset the camera (see Resetting the Camera on page 124). ● Format the internal memory and/or the optional memory card (see Delete on page 89).

Problem	Possible cause	Solution
A long delay occurs between pressing the Shutter button and the camera taking a picture.	The camera needs time to lock focus and exposure.	Use Focus Lock (see page 37).
	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. ● Make sure that the Focus Assist light is set to Auto (see Focus Assist Light on page 117).
	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 flash. In turn, make sure your subjects wait for the second flash.

Problem	Possible cause	Solution
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 delete all images in internal memory or on the memory card. Or replace the card with a new one.
	The optional memory card that is installed is locked.	Switch the locking tab on the memory card to the unlocked position.
	The flash is recharging.	Wait until the flash has recharged before taking another picture.
	The camera is set to Macro  focus and cannot take a picture until it finds focus.	<ul style="list-style-type: none"> ● Re-focus the camera (try using Focus Lock; see page 37). ● Make sure the subject of the picture is within the Macro (close-up) range (see Using the Focus Range Settings on page 38).
	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
My image is blurry.	The light is low and the flash is set to Flash Off  .	In dim light, the camera requires a longer exposure. Use a tripod to hold the camera steady, improve lighting conditions, or set the flash to Flash On  (see Setting the Flash on page 43).
	The camera was set to the wrong focus setting for the scene.	Set the camera to Macro  , Normal , or Infinity ∞ focus and try taking the picture again (see Using the Focus Range Settings on page 38).
	You moved the camera while you took the picture.	Hold the camera steady as you press the Shutter button or use a tripod. Watch for the  icon in the Image Display (this means that it is almost impossible to hold steady, and you must use a tripod).
	The camera focused on the wrong thing, or was unable to focus.	<ul style="list-style-type: none"> ● Make sure the focus brackets turn green before taking the picture (see Focusing the Camera on page 36). ● Use Focus Lock (see page 37). ● Use focus search priority (see page 39).

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 Setting the Flash on page 43). ● Move back from the subject and use the zoom to get the same framing.
	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 the EV Compensation (see page 57). ● Use AE Bracketing (see page 74).
	The scene had many dark objects, such as a black dog on a black couch.	Decrease the EV Compensation (see page 57).
	The Image Display is set for outdoor display, making images appear too bright.	Change the Display Brightness in the Setup Menu for more accurate brightness on the Image Display. (see page 116).
	You used EV Compensation when you should not have.	Set EV Compensation to 0 (see page 57).

Problem	Possible cause	Solution
My image is too dark.	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 43). ● Adjust the EV Compensation (see page 57). ● Use AE Bracketing (see page 74). ● Use Adaptive Lighting (see page 68).
	The flash was on, but the subject was too far away.	Make sure your subject is within the flash working distance (see page 178). If so, try using the Flash Off  setting (see page 43), which will require a longer exposure (use a tripod).
	A light is behind the subject.	<ul style="list-style-type: none"> ● Use the Flash On  setting (see page 43), or use Adaptive Lighting (see page 68) to brighten the subject. ● Increase the EV Compensation (see page 57). ● Use the Spot setting for AE Metering (see page 66).
	The scene had many light-colored objects, such as a white dog in snow.	Increase the EV Compensation (see page 57).

Problem	Possible cause	Solution
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 118).
The Power/Memory light is on but my camera seems “stuck” and won’t operate properly.	While the camera was running, the power was cut off then reapplied quickly.	Press the Reset button (see Resetting the Camera on page 124). Or, remove all power sources (batteries and AC) for 5 to 10 minutes. This should be sufficient to allow the camera to reset completely.
The camera responds very sluggishly when trying to review images.	A slow optional memory card that is installed or too many images on the card can affect actions like scrolling through images, magnifying, deleting, etc.	<ul style="list-style-type: none"> ● Run the camera self-diagnostic test (see Camera Self-diagnostic Tests on page 154) to test the speed of your memory card. ● See Storage on page 179 and Memory Capacity on page 183 for tips about memory cards.

Problem	Possible cause	Solution
<p>The camera has a rattling noise when I shake it.</p>	<p>There is an electronic component that senses the orientation of the camera when you take pictures. This component uses a small ball inside a metal fixture and will rattle when shaken.</p>	<p>This is normal.</p>
<p>The camera gets warm (or even hot) to the touch.</p>	<p>You are using the HP AC power adapter to power the camera or to charge the battery in the camera, or you have been using the camera for a prolonged period of time (15 minutes or longer).</p>	<p>This is normal. However, if anything seems out of the ordinary, turn off the camera, unplug the camera from the HP AC power adapter, and allow the camera to cool. Then examine the camera and the battery for signs of possible damage.</p>



Error Messages on the Camera

Message	Possible cause	Solution
BATTERY DEPLETED. Camera is shutting down.	Battery power is too low to continue operation.	Replace or recharge the battery, or use the HP AC power adapter.
Battery is defective	Battery is shorted or severely overdischarged.	Purchase a new battery. (See Appendix B: Purchasing Camera Accessories on page 173).
Battery cannot be charged	Either an error occurred during charging, an AC power disruption occurred during charging, the wrong AC power adapter is being used, battery is defective, or no battery is installed in the camera.	Retry charging the battery a couple of times. If that fails, purchase a new battery and try again. (See Appendix B: Purchasing Camera Accessories on page 173).
Battery too low for Live View	Battery power is too low to use Live View . This message appears sooner with a disposable CP1 battery than with a rechargeable battery.	You can still take pictures and video clips, just use the optical viewfinder instead of the Image Display. To use Live View , replace or recharge the battery or use the optional AC adapter.

Message	Possible cause	Solution
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 Storage on page 179.)
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 (remove the card from the camera if you do not want it to be formatted).
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 (remove the card from the camera if you do not want it to be re-formatted).
Unable to Format	The optional memory card that is installed is corrupted.	Replace the memory card.
The card is locked. Please remove the card from your camera.	When trying to configure your HP Instant Share menu, the optional memory card that is installed is locked.	Simply remove the card from the camera and continue the HP Instant Share task, or switch the locking tab on the memory card to the unlocked position before continuing.

Message	Possible cause	Solution
CARD LOCKED	The optional memory card that is installed is locked.	Switch the locking tab on the memory card to the unlocked position.
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 Delete on page 89). Or replace the card with a new one.
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. ● Try re-formatting the memory card using the Format (Memory/Card) option in the Delete sub-menu of the Playback Menu (see Delete on page 89). ● Ensure that the memory card is the proper type for your camera (see Storage on page 179). If it is the proper type, try formatting it. If it will not format, it is probably corrupted. Replace the memory card.

Message	Possible cause	Solution
PROCESSING...	The camera is processing data, such as saving the last picture you took.	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.
FOCUS TOO FAR and blinking 🌸	The focus distance is beyond where the camera can focus in Macro mode.	<ul style="list-style-type: none"> • Set the camera to Normal focus. • Move closer to the subject, within the range of Macro 🌸 focus (see Using the Focus Range Settings on page 38).
FOCUS TOO CLOSE	The focus distance is closer than the camera can focus in Macro mode.	Move farther away from the subject (within the range of Macro 🌸 focus - see page 38).
Blinking 🌸	The focus distance is closer than the camera can focus without being in Macro mode.	Set the camera to Macro 🌸 focus or move farther away.

Message	Possible cause	Solution
UNABLE TO FOCUS	The camera cannot find focus in Macro mode, possibly due to low contrast.	<ul style="list-style-type: none"> ● Use Focus Lock (see page 37). Point at a part of the scene that is brighter. ● Make sure the camera is within the range of Macro  focus (see page 38).
LOW LIGHT - UNABLE TO FOCUS	The scene is too dark and the camera cannot focus.	<ul style="list-style-type: none"> ● Add an external light source. ● Use Focus Lock (see page 37). Point at a part of the scene that is brighter. ● Make sure the Focus Assist light is set to Auto (see page 117).
 (camera shake warning)	The light is low and the image is likely to be blurry due to the long exposure required.	Use the flash (see Setting the Flash on page 43), or use a tripod.
ERROR SAVING IMAGE	The optional memory card that is installed was half-locked or was removed before the camera finished writing to the card.	<ul style="list-style-type: none"> ● Check to see if the tab on the edge of the memory card is fully in the unlocked position. ● Always wait until the Power/Memory light stops blinking before removing the card from the camera.

Message	Possible cause	Solution
F-number and shutter speed turn red in Live View	The camera is out of range for the selected aperture or shutter speed.	Select a different aperture when using the Aperture Priority Av shooting mode.
Cannot display image	Possibly an image taken with another camera or a corrupt image file caused by the camera not shutting down properly.	<ul style="list-style-type: none"> ● The image may still be okay. Transfer the image to your computer and try opening it with the HP Image Zone software. ● Do not remove the memory card when the camera is turned on.
Camera has experienced a fatal error	The camera may have a firmware problem.	Turn the camera off and then on again. If that does not fix the problem, try resetting the camera (see Resetting the Camera on page 124). If the problem persists, note the error code and then call HP Support (see Getting Assistance on page 155).
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.

Message	Possible cause	Solution
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 or the optional HP Photosmart R-series dock. If that does not work, turn off the camera and disconnect it. Turn the printer off and then on again. Re-connect the camera and turn it on.
Unsupported printer	The printer is an unsupported device.	Connect the camera to a supported printer, such as an HP Photosmart or PictBridge-compatible printer. Or connect the camera to a computer and print from there instead.
Photo tray is engaged. Disengage photo tray or select smaller paper size.	The selected paper size cannot be used with the printer photo tray.	Disengage the printer photo tray, or change the paper size.
Printer top cover is open	The printer is open.	Close the top cover of the printer.
Incorrect or missing print cartridge	The printer cartridge is the incorrect model or is missing.	Install a new printer cartridge, turn the printer off, then turn it back on.

Message	Possible cause	Solution
Printer has a paper jam or The print carriage has stalled	There is a paper jam or the printer carriage has stalled.	Turn off the printer. Completely clear the paper jam, then turn the printer back on.
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.
Selected print size is larger than selected paper size.	Print size is too large for the paper size.	Press Menu/OK on the camera to return to the Print Setup screen and select a print size that matches the paper size. Or select a larger paper size and load larger paper into the printer.
Selected paper size is too big for printer.	Selected paper size is larger than the maximum size supported in the printer.	Press Menu/OK on the camera to return to the Print Setup screen and select a paper size that fits the printer.
Borderless printing is only supported on photo paper.	You tried to print a borderless image on plain paper.	Select a smaller print size or make sure Paper Type on the Print Setup screen is set to Photo (press Menu/OK on the camera to return to the Print Setup screen and set Paper Type to Photo). Put photo paper in the printer.

Message	Possible cause	Solution
Borderless printing is not supported on this printer.	The printer does not support borderless printing.	Press Menu/OK on the camera to return to the Print Setup screen and select a smaller print size.
Printing canceled	The print job has been canceled.	Press the Menu/OK button on the camera. Complete the print request again.

Error Messages on the Computer

Message	Possible cause	Solution
Cannot Connect To Product	The computer needs to access files in memory during HP Instant Share setup. But either the internal memory is full, or if an optional memory card is installed, the card is either full or locked.	If internal memory or the optional memory card is full, transfer the images to a computer (see Transferring Images to a Computer on page 109) and then delete the images from the camera to free-up space (see Delete on page 89). If the optional memory card is locked, unlock it by switching the locking tab on the card to the unlocked position.
	The camera is turned off.	Turn on the camera.
	The camera is not working correctly.	Try connecting the camera directly to an HP Photosmart or PictBridge-compatible printer, and print an image. This will verify that the image, 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.

Message	Possible cause	Solution
Cannot Connect To Product (continued)	The camera is set to the Digital Camera setting in the USB Configuration sub-menu of the Setup Menu , but the computer cannot recognize the camera as a digital camera.	Change the USB Configuration setting to Disk Drive in the Setup Menu . (See page 119.) This allows the camera to appear as another disk drive on the computer so that you can easily copy the image files from the camera to the computer hard drive.
	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.
	You are using the HP Photosmart R-series dock and forgot to press the Save/Print button.	Press the Save/Print button on the dock.

Message	Possible cause	Solution
Cannot Connect To Product (continued)	The optional memory card that is installed is locked.	Switch the locking tab on the memory 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.
Communication Problem	Other HP Instant Share software is running with exclusive access to your camera.	Close the other HP Instant Share program.

Camera Self-diagnostic Tests

If you think your camera may be defective or malfunctioning in some way, there is a diagnostic program (a set of eleven different tests) that you can run on the camera to try to determine the problem. The following are tested on the camera: flash, lights, buttons, **Live View**, color on the Image Display, **Audio Playback**, **Record Audio**, optional memory card, and internal memory.

NOTE The test is in English only.

- 1 Turn off the camera.
- 2 Hold down the **Flash** ⚡ button on the back of the camera.
- 3 Turn on the camera while continuing to hold down the **Flash** ⚡ button on the back of the camera. A blue screen titled **CAMERA SELF-DIAGNOSTICS** appears on the Image Display.
- 4 Follow the simple instructions on the Image Display to perform the set of tests. Some tests will tell you if the camera passed or failed, while other tests will make the camera do something, and you must check to see if the camera did it correctly. If any of the tests fail, note which one(s) so that you can provide this information when you contact HP Support. The entire set of tests takes only a few minutes to complete.
- 5 To exit the diagnostic program at any point, simply turn off the camera.

Getting Assistance

This section contains support information for your digital camera, including support website information, an explanation of the support process, and support phone numbers.

HP Accessibility Website

Customers with disabilities can get help by visiting www.hp.com/hpinfo/community/accessibility/prodserv

HP Photosmart Website

Visit www.photosmart.hp.com or www.hp.com/photosmart for the following information:

- Tips on using your camera more effectively and creatively
- HP digital camera driver updates and software
- Register your product
- Subscribe to newsletters, driver and software updates, and support alerts

Support Process

The HP support process works most effectively if you perform the following steps in the order specified:

- 1 Review the troubleshooting section of this User's Manual (see **Problems and Solutions** on page 131).
- 2 Access the HP Customer Support Center website for support. If you have access to the Internet, you can obtain a wide range of information about your digital camera. Visit the HP website for product help, drivers, and software updates at www.hp.com/support

Customer Support is available in the following languages: Dutch, English, French, German, Italian, Portuguese, Spanish, Swedish, Traditional Chinese, Simplified Chinese, Japanese, Korean. (Danish, Finnish, and Norwegian support information is available in English only.)

- 3** Access HP e-support. If you have access to the Internet, connect with HP via e-mail by going to: www.hp.com/support. You will receive a personal reply from an HP Customer Support technician. E-mail support is available in the languages listed at that website.
- 4** (US and Canadian customers, skip this step and go on to Step 5.) Contact your local HP dealer. If your digital camera has a hardware failure, take it to your local HP dealer for a solution. Service is free during your digital camera's limited warranty period.
- 5** Contact the HP Customer Support Center for support by phone. Please consult the following website to check the details and conditions of phone support in your country/region: www.hp.com/support. As a part of HP's continuing efforts to improve phone support information services, we advise you to check the HP website on a regular basis for new information regarding service features and delivery. If you cannot solve the problem using the above options, call HP while you are in front of your computer and digital camera. For faster service, please be prepared to provide the following information:
 - The digital camera's model number (on the front of the camera)
 - The digital camera's serial number (on the bottom of the camera)
 - The computer's operating system
 - The version of the HP software (on the CD label)
 - Messages displayed at the time the situation occurred

The applicable conditions for HP phone support are subject to change without notice.

Telephone support is free from the date of purchase for the period specified unless otherwise noted.

Locations	Phone Support Period
Africa	30 days
Asia Pacific	1 year
Canada	1 year
Europe	1 year
Latin America	1 year
Middle East	30 days
United States	1 year

Phone Support in the United States

Support is available both during and after the warranty period.

Within the period of your warranty, telephone support is provided free of charge. Call (800) 474-6836.

US phone support is available in both English and Spanish 24 hours a day, 7 days a week (days and hours of support may change without notice).

After the warranty period, call (800) 474-6836. Charges are \$25.00 per issue, and are charged to your credit card. If you think your HP product needs service, call the HP Customer Support Center, which can help determine if service is required.

Phone Support in Europe, the Middle East, and Africa

HP Customer Support phone numbers and policies may change. Visit the following website to check the details and conditions of phone support in your country/region:
www.hp.com/support.

Algeria +213 61 56 45 43

Austria +43 1 86332 1000
0810-001000 (in-country)

Bahrain 800 171 (in-country toll-free)

Belgium 070 300 005 (Dutch)
070 300 004 (French)

Czech Republic +420 261307310

Denmark +45 70 202 845

Egypt +20 2 532 5222

Finland +358 (0)203 66 767

France +33 (0)892 69 60 22 (Euro 0.34/minute)

Germany +49 (0)180 5652 180 (Euro 0.12/minute)

Greece +30 210 6073603 (international number)
801 11 22 55 47 (in-country)
800 9 2649 (toll-free from Cyprus to Athens)

Hungary +36 1 382 1111

Ireland 1890 923 902

Israel +972 (0) 9 830 4848

Italy 848 800 871

Luxembourg 900 40 006 (French)
900 40 007 (German)

Middle East +971 4 366 2020 (international number)

Morocco +212 22 404747

Netherlands 0900 2020 165 (Euro 0.10/minute)

Nigeria +234 1 3204 999

Norway +47 815 62 070

Poland +48 22 5666 000

Portugal 808 201 492

Romania +40 (21) 315 4442

Russian Federation +7 095 7973520 (Moscow)
+7 812 3467997 (St. Petersburg)

Saudi Arabia 800 897 1444 (in-country toll-free)

Slovakia +421 2 50222444

South Africa 086 0001030 (Republic of South Africa)
+27 11 2589301 (international number)

Spain 902 010 059

Sweden +46 (0)77 120 4765

Switzerland 0848 672 672 (German, French, Italian—
Peak time 0.08 CHF/Outside peak 0.04 CHF)

Tunisia +216 71 89 12 22

Turkey +90 216 579 71 71

Ukraine +7 (380 44) 4903520 (Kiev)

United Arab Emirates 800 4520 (in-country toll-free)

United Kingdom +44 (0)870 010 4320

West Africa +351 213 17 63 80 (French-speaking countries only)

Other Phone Support Worldwide

HP Customer Support phone numbers and policies may change. Visit the following website to check the details and conditions of phone support in your country/region:
www.hp.com/support.

Argentina (54)11-4778-8380 or 0-810-555-5520

Australia +61 (3) 8877 8000 or local (03) 8877 8000

Brazil 0800-157751 or (11)3747-7799

Canada 1-800-474-6836
(905-206-4663 from within local Mississauga calling area)

Chile 800-360-999

China +86 (21) 3881 4518

Colombia 01-800-011-4726

Costa Rica 0-800-011-0524

Guatemala 1800-999 5105

Hong Kong SAR +852 2802 4098

India 1 600 447737

Indonesia +62 (21) 350 3408

Jamaica 0-800-7112884

Japan 0570 000 511 (inside Japan)
+81 3 3335 9800 (outside Japan)

Korea, Republic of +82 1588-3003

Malaysia 1 800 805 405

Mexico 01-800-4726684 or (55)5258-9922

New Zealand +64 (9) 356 6640

Panama 001-800-7112884

Peru 0-800-10111

Philippines +63 (2) 867 3551

Republica Dominicana 1-800-7112884

Singapore +65 6272 5300

Taiwan +886 0 800 010055

Thailand +66 (0)2 353 9000

Trinidad & Tobago 1-800-7112884

United States +1 (800) 474-6836

Venezuela 01-800-4746.8368

Vietnam +84 (0) 8 823 4530

Appendix A: Managing Batteries

Your camera uses either a rechargeable HP Photosmart R07 lithium ion battery for HP Photosmart R-series cameras (L1812A), or a disposable Duracell CP1 battery. For best results, use only a rechargeable HP branded lithium ion battery or high-quality lithium disposable battery.

Top Points About Batteries

- New rechargeable batteries are shipped partially charged. Lithium ion rechargeable batteries must be fully charged before first use or if unused for 2+ months.
- If you do not intend to use your camera for extended periods of time (more than two months), HP recommends that you remove the battery unless you are using a rechargeable battery and are leaving the camera docked or connected to an HP AC power adapter.
- When inserting the battery in the camera, always be sure to orient the battery as directed by the markings in the battery compartment. If the battery is inserted improperly, the compartment door may close but the camera will not operate.
- You might notice that occasionally the battery gauge will fluctuate with the same battery. This occurs because some operating modes, such as **Live View** or video recording, consume more power than other modes. This will cause the battery gauge to indicate that your battery level is lower, because battery operating time in those modes is shorter.

When you switch to a mode that requires less power, like **Playback**, the battery gauge may go up, indicating that there is more operating time left in the battery if you stay in that mode.

Extending Battery Life

Here are some tips for extending battery life:

- Turn off the Image Display and use the viewfinder instead when framing pictures and video. Leave the Image Display off whenever possible.
- Change the **Live View at Power On** setting in the **Setup Menu** to **Live View Off**, so that your camera does not power on in **Live View** (see **Live View at Power On** on page 118).
- 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 116).
- Minimize the use of flash by setting your camera to **Auto Flash**, instead of **Flash On** (see **Setting the Flash** on page 43).
- Use optical zoom only when necessary to minimize moving the lens (see **Optical Zoom** on page 41).
- Minimize unnecessary power cycling. If you expect to average more than two picture every five minutes, leave the camera on with the Image Display off, rather than turning off the camera after each shot. This minimizes the number of times the lens must extend and retract.
- Use the HP AC power adapter or optional HP Photosmart R-series dock when the camera will be on for extended periods of time, such as when you transfer images to your computer or when printing.

Safety Precautions for Using Lithium Ion Batteries

- Do not place the battery in fire or heat the battery.
- Do not connect the positive terminal and the negative terminal of the battery to each other with any metal object (such as wire).
- Do not carry or store the battery together with coins, necklaces, hairpins, or other metal objects. Placing a lithium ion battery with coins is especially dangerous to the user! To avoid injury, do not drop this battery into a change-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 one's 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 the rechargeable HP Photosmart R07 lithium ion battery and the disposable Duracell CP1 battery perform in different types of use scenarios.:

Type of use	Lithium ion	CP1
Most economical (more than 30 pictures per month)	Good	Fair
Most economical (fewer than 30 pictures per month)	Good	Good
Heavy use of flash, frequent pictures	Good	Fair
Heavy use of video	Good	Fair
Heavy use of Live View	Good	Fair
Overall battery life	Good	Good
Low temperature/winter use	Fair	Good
Infrequent use (without dock)	Fair	Good
Infrequent use (with dock)	Good	Good
Spare battery (for long-term storage)	Poor	Good
Want to recharge battery	Yes	No

Number of Shots per Battery Type

The following table shows the minimum, maximum, and average number of shots that may be obtained using the rechargeable HP Photosmart R07 lithium ion battery and the disposable Duracell CP1 battery.

Battery type	Minimum number of shots	Maximum number of shots	Approximate number of shots under average use
Lithium ion	115	260	200
CP1	90	190	130








NOTE When using the disposable CP1 battery, you may get more shots after **Live View** is disabled than you get with the rechargeable lithium ion battery.

In the above table, please note that:

- The minimum number of shots is obtained with extensive use of **Live View** (30 seconds per picture) and **Playback** (15 seconds per picture), and **Flash On**. Optical zoom (both directions) is used on 75% of shots. Four pictures are taken per session with at least 5 minutes off between sessions.
- The maximum number of shots is obtained with minimal use of **Live View** (25% of pictures for 10 seconds) and **Playback** (4 seconds per picture). Flash is used on 25% of shots, and optical zoom (both directions) is used on 25% of shots. Four pictures are taken per session with at least 5 minutes off between sessions.
- The average number of shots is obtained with **Live View** used for 50% of the pictures for 15 seconds, and **Playback** used for 8 seconds per picture. Flash is used on 50% of shots, and optical zoom (both directions) is used on 50% of shots. Four pictures are taken per session with at least 5 minutes off between sessions.

Battery Gauge

The following battery levels may be displayed on the status screen, in **Live View**, in **Playback**, and when the camera is connected to a computer or printer.

Icon	Description
	Battery has 65-100 percent battery life remaining.
	Battery has 35-65 percent battery life remaining.
	Battery has 10-35 percent battery life remaining.
	Battery has less than 10 percent battery life remaining. Camera will power down soon. Live View is disabled (see Note below).
 Blinking	Battery is depleted. Camera will proceed to power down.
	Camera is operating on AC power (with a non-rechargeable battery or no battery installed).
Animated battery filling up	Camera is operating on AC power and is charging the battery.
	Camera has successfully completed battery charging and is operating on AC power.

NOTE When using the disposable CP1 battery, you may get more shots after **Live View** is disabled than you get with the rechargeable lithium ion battery.

NOTE The battery gauge is most accurate after a few minutes of use. When the camera is turned off, the battery recovers and the initial gauge reading when the camera is turned on again may not be as accurate as that obtained after a few minutes of use.


NOTE When you remove the battery from the camera, the date and time settings are preserved for approximately 10 minutes. If the camera is without a battery for longer than 10 minutes, the clock is set to the last date and time at which the camera was used. You may be prompted to update the date and time the next time you power on the camera.

Recharging the Lithium Ion Battery

The rechargeable HP Photosmart R07 lithium ion battery can be recharged in the camera when the camera is connected to the HP AC power adapter or optional HP Photosmart R-series dock. The lithium ion battery can also be recharged with the optional HP Photosmart battery quick recharger or in the spare battery bay of the HP Photosmart R-series dock. See **Appendix B: Purchasing Camera Accessories** on page 173.

When the HP AC adapter is used to charge the battery and the camera is off, the Power/Memory light on the back of the camera will blink during charging. When the dock is used, the dock light will blink. When the quick recharger is used, the light on the quick recharger will be yellow.

The following table shows the average time it takes to recharge a battery that has been fully discharged, depending on where the battery is being charged. The table also notes the signal you will see when the battery has been recharged.

Where battery is charged	Average charge time	Signal when charging has completed
In camera with HP AC power adapter connected or while camera is in the dock	5-7 hours	Power/Memory light on camera (or the Power light on the dock) stops blinking and turns on solid. On the Image Display of the camera, the battery gauge changes to  .
In battery bay of dock	2.5-3.5 hours	Spare battery light on dock stops blinking and turns on
In HP quick recharger	1-2 hours	Light on quick recharger turns green

If you will not be using your camera immediately after charging the battery, we recommend that you leave the camera in the dock or plugged in to the HP AC adapter. The camera will top off the battery periodically to ensure that the camera is always ready for use.

Some things to keep in mind when using a lithium ion battery are as follows:

- The first time that you use a new lithium ion battery, be sure that you fully charge it before using it in the camera.
- A lithium ion battery discharges when not in use, whether it is installed in a camera or not. If a lithium ion battery has not been used for more than two months, recharge it before using it again. Even if you are not using your battery, it is a good idea to charge it every six months to a year to prolong its useful life.
- The performance of all rechargeable batteries, including lithium ion, 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 battery with an HP Photosmart R07 lithium ion battery for HP Photosmart R-series cameras (L1812A).

- The camera, the dock, or the quick recharger may be warm while operating and charging a lithium ion battery. This is normal.
- A lithium ion battery can be left in the camera, the dock, or the quick recharger for any period of time without harm to the battery or the camera, the dock, or the quick recharger. Always store charged batteries in a cool location.

Safety Precautions for Recharging Lithium Ion Batteries

- Do not charge any other battery than the HP Photosmart R07 lithium ion battery in the camera, the dock, or the quick recharger.
- Insert the lithium ion battery in the correct orientation in the camera, the dock, or the quick recharger.
- Use the camera, the dock, or the quick recharger in a dry location only.
- Do not charge a lithium ion battery in a hot location, such as in direct sunlight or near a fire.
- When recharging a lithium ion battery, do not cover the camera, the dock, or the quick recharger in any way.
- Do not operate the camera, the dock, or the quick recharger if the lithium ion battery appears damaged in any way.
- Do not disassemble the camera, the dock, or the quick recharger.

- Unplug the HP AC power adapter or the quick recharger from the electrical outlet before cleaning the power adapter or quick recharger.
- After extensive use, the lithium ion battery may begin to swell. If it becomes difficult to insert the battery into or remove the battery from the camera, the dock, or the quick recharger, discontinue use of the battery and replace it with a new one. Please recycle the old battery.

Sleep Time-out for Power Conservation

To conserve battery power, the Image Display turns off automatically if there is no button activity for 60 seconds, and the camera shuts down after 5 minutes. 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, unless it is connected to a computer, printer, or HP AC power adapter.

Appendix B: Purchasing Camera Accessories

You can purchase additional accessories for your camera.

For information on your HP R707 and compatible accessories, go to:

- www.hp.com/go/myhpcamera (US)
- www.hp.ca/myhpcamera (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)
- www.hp.com/apac/homeandoffice (Asia Pacific)

Some accessories for this digital camera are as follows:

- **HP Photosmart R-series dock—C8887A**

Charge your camera's battery plus a spare in the extra charging bay, so your camera is always ready to go. Transfer photos easily to your computer, send photo e-mails via **HP Instant Share**, or print photos at the touch of a button. Connect to your TV and view photo slideshows with the remote control.



Includes a dock with extra charging bay for a lithium ion battery, a remote control, a rechargeable HP Photosmart R07 lithium ion battery, an audio/video cable, a USB cable, and an HP AC power adapter (North America only).

- **HP Photosmart Quick Recharge Kit for HP Photosmart R-series cameras—L1810A** (Not available in Latin America)

Quick recharging of the lithium ion battery, plus protection for your HP Photosmart R-series camera. Includes all you need to provide a home away from home for your camera: a recharger, a camera case, a travel pouch, and a rechargeable HP Photosmart R07 lithium ion battery.

- **Rechargeable HP Photosmart R07 lithium ion battery for HP Photosmart R-series cameras—L1812A**

High-capacity battery that can be recharged hundreds of times.

- **HP Photosmart 3.3V AC power adapter for HP Photosmart R-series cameras—C8912B** (Not available in Latin America)

This is the only power adapter supported for use with R-series cameras.

- **HP Photosmart SD memory cards**
(For important information about supported types of memory cards, see **Storage** on page 179.)
 - HP Photosmart 64 MB SD memory card —C8896A
 - HP Photosmart 128 MB SD memory card—C8897A
 - HP Photosmart 256 MB SD memory card—L1813A
 - HP Photosmart 512 MB SD memory card—L1814A

NOTE: HP Memory cards are not available in Asia Pacific and Latin America.

NOTE: The 64 MB HP memory card is available in North America only.

- **HP Photosmart premium case for HP Photosmart R-series cameras— L1811A**


Protect your HP Photosmart R-series camera with this padded leather case. Designed to fit HP digital cameras, the case features a storage pouch for memory cards, extra batteries, and more.

- **www.casesonline.com**—Go to **www.casesonline.com** to design your own custom case to fit your HP Photosmart R-series camera. Choose the style, material, and color for your camera case.

Appendix C: Specifications

Feature	Description
Resolution	Still pictures: <ul style="list-style-type: none">• 5.36 MP (2690 by 1994) total pixel count• 5.14 MP (2612 by 1968) effective pixel count Video clips: <ul style="list-style-type: none">• 320 by 240 total pixel count
Sensor	Diagonal 9.075 mm (1/1.8-inch, 4:3 format) CCD
Color depth	36 bit (12 bits by 3 colors)
Lens	Focal length: <ul style="list-style-type: none">• Wide—8 mm• Telephoto—24 mm• 35 mm equivalent approximately 39 mm - 117 mm F-Number: <ul style="list-style-type: none">• Wide—f/2.8 to f/4.8• Telephoto—f/4.9 to f/8.4
Lens threads	None
Viewfinder	Optical real image zoom type viewfinder, 3x magnification, without diopter adjust
Zoom	3x optical, 8x digital zoom

Feature	Description																		
Focus	<p>Normal (default):</p> <ul style="list-style-type: none"> • Wide—500 mm (20 in) to infinity • Telephoto—700 mm (28 in) to infinity <p>Macro:</p> <ul style="list-style-type: none"> • Wide—140 mm to 900 mm (6 in to 35 in) • Telephoto—500 mm to 1,000 mm (20 in to 39 in) <ul style="list-style-type: none"> ● Focus settings: Normal Focus (default), Macro, Infinity, Manual Focus 																		
Shutter speed	1/2000 to 16 seconds																		
Tripod mount	Yes																		
Built-in flash	Yes, 6-second typical recharge time																		
Flash working distance	<table border="1"> <thead> <tr> <th>Zoom Position</th> <th>ISO 100</th> <th>ISO 200</th> <th>ISO 400</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Wide</td> <td>2.7 m</td> <td>4.0 m</td> <td>6 m</td> </tr> <tr> <td>8.9 ft</td> <td>13 ft</td> <td>19.7 ft</td> </tr> <tr> <td rowspan="2">Telephoto</td> <td>1.5 m</td> <td>2.5 m</td> <td>3.25 m</td> </tr> <tr> <td>4.9 ft</td> <td>8.2 ft</td> <td>10.7 ft</td> </tr> </tbody> </table>	Zoom Position	ISO 100	ISO 200	ISO 400	Wide	2.7 m	4.0 m	6 m	8.9 ft	13 ft	19.7 ft	Telephoto	1.5 m	2.5 m	3.25 m	4.9 ft	8.2 ft	10.7 ft
Zoom Position	ISO 100	ISO 200	ISO 400																
Wide	2.7 m	4.0 m	6 m																
	8.9 ft	13 ft	19.7 ft																
Telephoto	1.5 m	2.5 m	3.25 m																
	4.9 ft	8.2 ft	10.7 ft																
External flash	No																		
Flash settings	Flash Off, Auto Flash (default), Red-Eye, Flash On, Night																		
Image Display	1.5-inch color active matrix TFT LCD with backlight, 119,548 pixels (494 by 242)																		

Feature	Description
Storage	<ul style="list-style-type: none"> ● 32 MB internal flash memory, with approximately 27 MB for storage of images ● Slot for memory card ● This camera supports both Secure Digital (SD) and MultiMediaCard™ (MMC) memory cards 8 MB 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. ● SD cards are recommended, as they are faster than MMC cards at reading and writing data. ● This camera may support memory cards up to 2 GB, though HP has only tested up to 512 MB. Cards larger than 2 GB will not work. A high capacity card itself does not affect camera performance, but a large number of files (over 300) does affect the time it takes for the camera to turn on. ● The number of images that can be saved in memory depends on the Image Quality settings (see Memory Capacity on page 183).
Image capture options	<ul style="list-style-type: none"> ● Still (default) ● Self-Timer—still picture or video clip taken after 10-second delay ● Self-Timer - 2 shots—still picture taken after 10-second delay, then a second picture taken about 3 seconds later. Single video taken after 10-second delay. ● Burst—camera takes 3 shots in a row as quickly as it possibly can until the buffer is full ● Video—30 frames per second (includes audio), until the camera runs out of memory

Feature	Description
Audio capture	<ul style="list-style-type: none"> ● Still pictures—maximum of 60 seconds can be recorded ● Burst—audio capture not available ● Video clips—audio is recorded automatically
Shooting modes	Auto (default), Action, Landscape, Portrait, Beach/Snow, Sunset, Aperture Priority, Panorama, Document, My Mode
Image Quality settings	<ul style="list-style-type: none"> ● 5MP ★★★ ● 5MP ** (default) ● 3MP ** ● 1MP ** ● VGA ** ● Custom Image Quality (Resolution and Compression) settings
Exposure Compensation settings	Can be set manually from -3.0 to +3.0 EV (Exposure Value) in 1/3 EV increments.
White Balance settings	Auto (default), Sun, Shade, Tungsten, Fluorescent, Manual
AE Metering settings	Average, Center-Weighted (default), Spot
ISO Speed settings	Auto (default), 100, 200, 400
Adaptive Lighting settings	Off (default), Low, High
Color settings	Full Color (default), Black & White, Sepia
Saturation settings	Low, Medium (default), High

Feature	Description
Sharpness settings	Low, Medium (default), High
Contrast settings	Low, Medium (default), High
AE Bracketing settings	Off (default), -/+ 0.3 EV, -/+ 0.7 EV, -/+ 1.0 EV
Date & Time Imprint settings	Off (default), Date Only, Date & Time
Playback magnification	Magnifies a still image to 140x on the Image Display
Compression format	<ul style="list-style-type: none"> ● JPEG (EXIF) for still images ● MPEG1 for video clips
Interfaces	<ul style="list-style-type: none"> ● USB Mini-AB receptacle; allows USB (A to Mini-B) to a computer or USB (Mini-A to B) to certain printers (any HP Photosmart or PictBridge-compatible printers) ● DC input 3.3 Vdc @ 2500 mA ● HP Photosmart R-series dock
Orientation Sensor	Yes
Standards	<ul style="list-style-type: none"> ● PTP transfer (15740) ● MSDC transfer ● NTSC/PAL ● JPEG ● MPEG1 ● DPOF 1.1 ● EXIF 2.2 ● DCF 1.0 ● PictBridge 1.0 ● USB 2.0

Feature	Description
Power	<p>Typical power usage: 2.3 Watts (with image LCD on). 4 Watts maximum power usage.</p> <p>Power sources include:</p> <ul style="list-style-type: none"> ● Either one rechargeable HP Photosmart R07 lithium ion battery for HP Photosmart R-series cameras (L1812A), or one disposable Duracell CP1 battery. Rechargeable battery can be recharged in the camera using the HP AC power adapter or optional HP Photosmart R-series dock. ● HP AC power adapter (3.3 Vdc, 2500 mA, 8.25 W) ● Optional HP Photosmart R-series dock <p>Recharging in camera with the HP AC power adapter or optional HP Photosmart R-series dock: average charge time 5-7 hours.</p>
External body dimensions	<p>Measurements with camera off and lens retracted:</p> <p>98.5 mm (L) by 35.3 mm (W) by 60 mm (H) 3.88 in (L) by 1.39 in (W) by 2.36 in (H)</p>
Weight	180 grams (0.3969 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>
Warranty	1 year limited warranty backed by HP Customer Support

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 32 MB 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.

5MP ★★★	10 images (2.5 MB each)
5MP ** (default)	21 images (1.25 MB each)
3MP **	32 images (800 KB each)
1MP **	52 images (500 KB each)
VGA **	175 images (150 KB each)

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