

hp
photosmart
812
digital
camera



user's manual



i n v e n t

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Materials disposal

This HP product contains the following materials that might require special handling at end-of-life:

- Alkaline manganese dioxide-zinc or lithium-iron disulfide AA batteries.
- Lead in the solder and some component leads.

Disposal of this material can be regulated because of environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (EIA) (www.eiae.org).

Table of Contents

1-Getting started	9
Camera Parts	10
Setup	15
Attaching the wrist strap	15
Installing the batteries	15
Installing the memory card	15
Turning on power	16
Choosing the language	16
Setting the date and time	16
Installing the software	17
2-Taking pictures	19
Taking still pictures	19
Focus lock	19
Instant Review	20
Recording video clips	20
Taking self-timer pictures	21
Recording audio	21
Using Live View	22
Using Zoom	23
Optical zoom	23
Digital zoom	23
Using Macro setting	24
Using flash settings	25
Understanding sleep and shutdown	25
Managing batteries	26
Recharging batteries	27
Power/Memory light	28

3-Managing images in the camera	29
Viewing images	29
Main menu	30
Play	32
Delete	32
Magnify	33
Rotate	34
Setup	34
4-Using HP Instant Share	35
Using HP Instant Share to Print Pictures	37
Using the HP Instant Share E-mail Service	38
Adding e-mail addresses to your camera	38
Selecting images to be e-mailed	40
5-Connecting	41
Connecting to a computer	41
Connecting to a printer	42
Connecting to a television	43
Connecting to the HP camera dock	44
Unloading images to a computer using the dock	46
Printing images using the dock	46
Displaying images on a TV using the dock	47
6-Adjusting camera settings	49
Setting still image quality level	50
Setting automatic audio recording	51
Adjusting camera sounds	51
Changing date and time	52
Changing the USB configuration setting	52
Changing the TV configuration setting	53
Changing the language	53
Exiting setup	53

7-Troubleshooting	55
Problems and solutions	55
Error messages	63
Getting assistance	68
Finding help on the web	68
Contacting HP Customer Support	68
Hardware repair services	69
Obtaining support in the United States	69
Obtaining support worldwide	70
Hewlett-Packard limited warranty statement	73
Appendix	75
Camera specifications	75

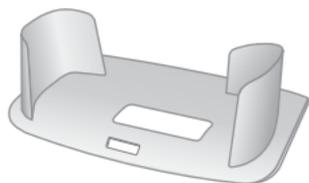
1 Getting started

The HP Photosmart 812 digital camera is a compact 4 Mega-pixel camera with a 3x optical zoom. This camera has an exciting new feature called **HP Instant Share** technology.

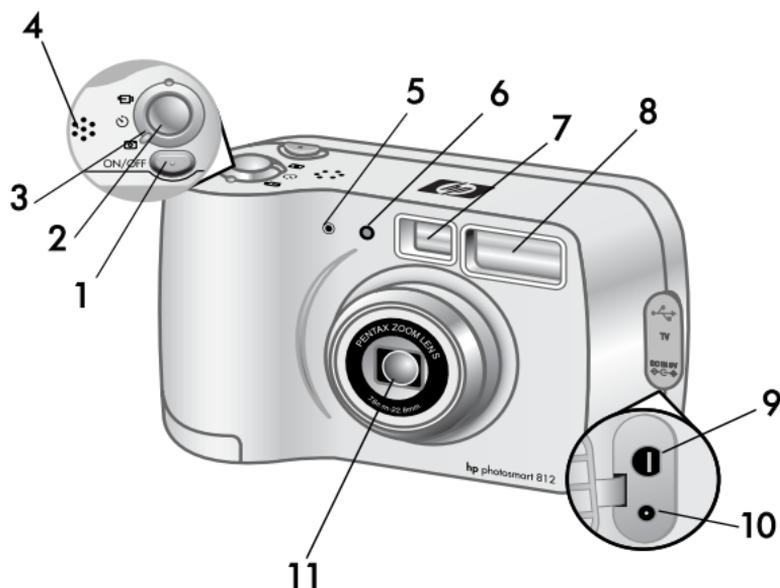
You can use the **Share** menu to select images that you want to print or e-mail. Then, you automatically e-mail or print your selected pictures when you connect to your computer. You can bypass the computer altogether and print your selected pictures directly on certain HP printers. You can also view slide shows of your pictures on your television.

You can enhance your experience by purchasing an HP Photosmart camera dock 8881. The camera dock allows you to easily download images to a computer, send images to a printer or television, charge the batteries, and provide a convenient home for your camera.

NOTE A camera dock insert is included in your camera box. This insert allows you to use the optional camera dock with your camera. **DO NOT** discard it. Instructions for its use are included with the camera dock that you can purchase separately.

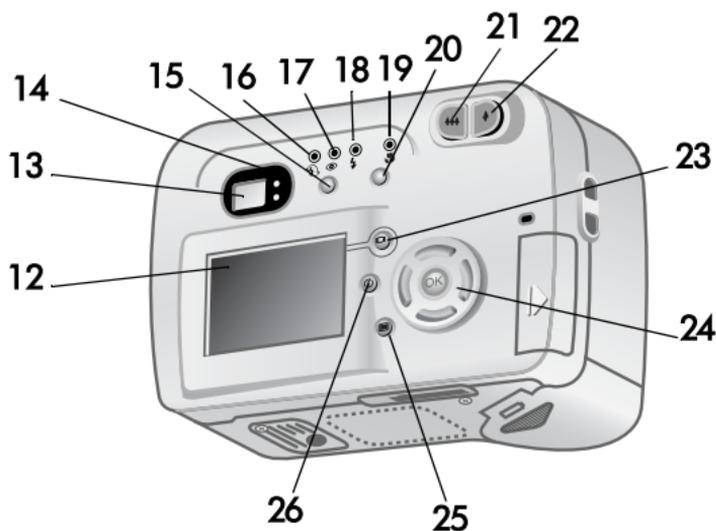


Camera Parts



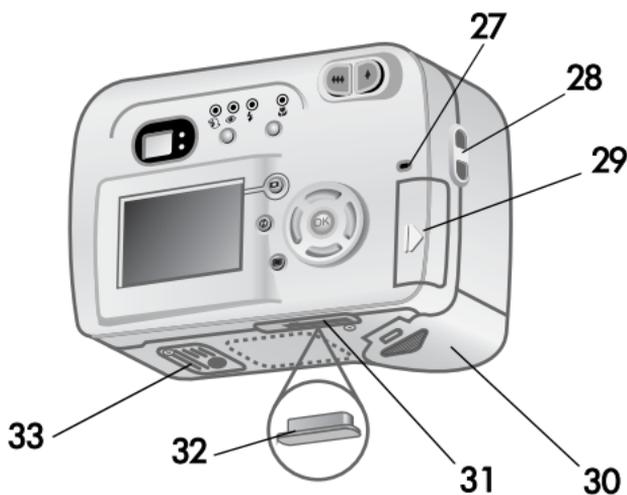
#	Name	Description
1	ON/OFF button	Turns the camera power on and off
2	Shutter button	Focuses and locks the exposure of the camera when pressed halfway down, and takes the picture when pressed all the way down
3	Capture Mode selector	Sets the camera mode to Still , Self-Timer , or Video mode
4	Speaker	Provides camera sounds and plays recorded audio
5	Microphone	Records audio clips

#	Name	Description
6	Self-Timer light	Blinks red during Self-Timer mode until picture is taken
7	Optical Viewfinder	Allows you to frame the subject of the picture
8	Flash	Provides flash illumination
9	USB/TV connector	Allows you to connect a USB cable or an optional TV cable to the camera
10	Power adapter connector	Allows you to connect an HP AC power adapter to the camera to operate the camera without batteries, or to charge optional rechargeable batteries
11	Zoom lens	3x optical zoom lens allows you to take telephoto and wide-angle pictures



#	Name	Description
12	Display	Provides menu information to operate the camera. You can also preview the picture before taking it and review it afterwards
13	Optical Viewfinder	Allows you to frame the subject of the picture
14	Viewfinder lights	Solid green light indicates the camera is in focus and ready. Solid red light indicates the camera is capturing a video clip
15	Flash button	Selects the Flash setting. The current setting is shown by the lights above this button (No light indicates Auto Flash)

#	Name	Description
16	 Flash Off light	Amber light on when the camera is set to Flash Off
17	 Auto with Red-eye light	Amber light on when the camera is set to Auto with Red-Eye reduction
18	 Flash On light	Amber light on when the camera is set to Flash On
19	 Macro light	Amber light on when the camera is set to Macro Focus
20	Macro button	Selects/deselects Macro Focus setting (for taking close-up pictures)
21	 Zoom Out button	Zooms the lens to wide angle position
22	 Zoom In button	Zooms the lens to telephoto position
23	 Display button	Turns the Display and Live View on and off
24	 4-way Controller with OK button	Allows you to move through menus and pictures, and then select choices
25	 Menu button	Turns the Main menu, shown on the Display , on and off
26	 Share button	Turns HP Instant Share menu on and off



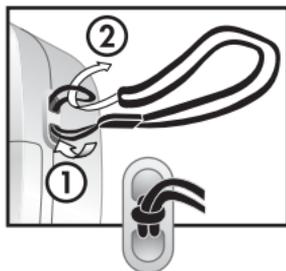
#	Name	Description
27	Three color Power/Memory light	<i>Green</i> —camera is on <i>Amber</i> —reading from or writing to memory card <i>Red</i> —camera has insufficient power and is shutting down
28	Wrist strap mount	Wrist strap attachment
29	Memory card door	Allows access to insert or remove the memory card
30	Battery door	Allows access to the batteries
31	Camera dock connector	Connects the camera to the optional camera dock
32	Dock connector plug	Protects the dock connector when camera is not in camera dock
33	Tripod mount	Allows tripod mounting

Setup

Attaching the wrist strap

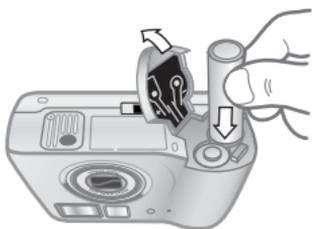
Attach the wrist strap as shown in the illustration.

NOTE It is easiest to install the wrist strap by inserting it from the bottom.



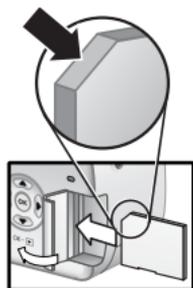
Installing the batteries

- 1 Open the **Battery Door** on the bottom of the camera.
- 2 Insert the batteries according to the markings on the metal contacts located on the door.



Installing the memory card

- 1 With the camera off, open the **Memory Card Door** by sliding it in the direction of the arrow.
- 2 Insert the memory card.
- 3 Close and ensure that the **Memory Card Door** is latched.

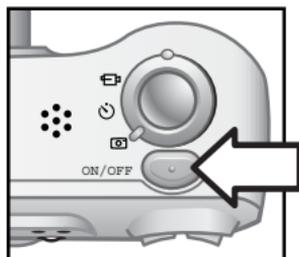


To eject the card, make sure the camera is off, and then push the card in to spring it from the camera.

Turning on power

When you press the **ON/OFF** button, the lens extends, the **Display** turns on briefly, and the **Power/Memory** light comes on green.

NOTE If the light comes on red, the batteries are very low.



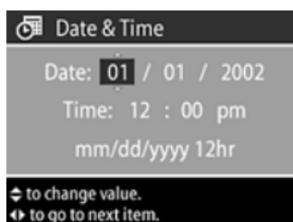
Choosing the language

- 1 Choose your language by scrolling with the **Up/Down** arrows on the **Controller** .
- 2 Press **OK** in the center of the **Controller**  to select the highlighted language.



Setting the date and time

- 1 Adjust the values of the highlighted selection by using the **Up/Down** arrows on the **Controller** .
- 2 Press the **Left/Right** arrows on the **Controller**  to move to the other sections and repeat steps one and two until the correct date and time are set.
- 3 Press **OK** when the proper values are entered.



Installing the software

Your HP Photosmart 812 camera software allows you to unload images from the camera, view them, print them, and e-mail them. It also allows you to configure the **Share** menu on the camera.

NOTE For Windows computers, the HP Photo Imaging software needs at least Internet Explorer 5.0 (Service Pack 2) in order to function properly.

Windows

1 Insert the HP Photosmart 812 CD into the CD-ROM drive of your computer. The installation window automatically appears.

NOTE If the installation window does not appear, click **Start**, and then click **Run**. Type **X:\Setup.exe**, where **X** is the letter of your CD-ROM drive.

2 Click **Next**, and then follow the on-screen instructions to install the software.

To install any bonus software you may have:

1 Click **Start**, click **Run**, and in the **Open** box, type **X:\Bonus\setup.exe** (where **X** is the drive letter of your CD-ROM drive).

2 Click **OK**, and then follow the on-screen instructions to install the bonus software.

Macintosh

- 1 Insert the HP Photosmart 812 CD into your computer's CD-ROM drive.
- 2 Double-click the CD icon on the desktop.
- 3 Double-click the appropriate language folder, and then double-click the installer icon.
- 4 Follow the instructions on the screen to install the software.

Before you can unload images from the camera to a Macintosh computer, you must change the USB configuration setting on the camera.

- 1 Select **USB Configuration** from the **Setup** menu on the camera.
- 2 Select **Disk Drive**, and then press **OK**.

To install any bonus software you may have:

- 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.

2 Taking pictures

Taking still pictures

You can take a picture any time the camera is on, no matter what is showing on the **Display**. To take still pictures:

- 1 Select **Still**  on the **Capture Mode** selector.
- 2 Frame the subject you want to photograph using the optical viewfinder.
- 3 Holding the camera steady, press the **Shutter** button all the way down to capture a picture quickly.



The **Shutter** button also controls audio recording. (See *Recording Audio* later in this chapter.) To achieve best focus in low light conditions, secure the camera to a tripod and make sure the focus area has sufficient contrast.

NOTE If the green **Viewfinder** light is blinking, there is an error in the camera and an error message shows on the **Display** (Refer to Chapter 5 for troubleshooting help.)

Focus lock

Focus Lock allows you to focus on a subject that is not in the center of the image. It is also useful to verify that your image is in focus before taking the picture. To use **Focus Lock**:

- 1 Press the **Shutter** button halfway down to lock the exposure and focus. When exposure and focus lock, the green **Viewfinder** light comes on solid.

- 2 When exposure and focus are locked, and you continue to hold the **Shutter** button halfway down, you can re-frame or adjust your subject for proper positioning.
- 3 Press the **Shutter** button all the way down until you hear a click and see the image on the **Display** in **Instant Review**.

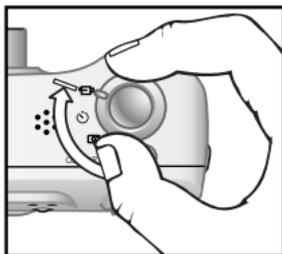
Instant Review

After you take a picture, the **Display** automatically shows the image for several seconds. A blinking microphone and the counter appear at the top of the **Display** if audio is being recorded during **Instant Review**. After a video clip is recorded, the **Display** shows the first frame of the clip.

Recording video clips

To record a video clip with audio for up to 60 seconds:

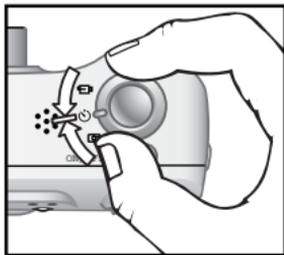
- 1 Select **Video**  on the **Capture Mode** selector.
- 2 Frame the subject that you want to record.
- 3 To start video recording, press the **Shutter** button all the way down and release it. The red **Viewfinder** light comes on and a short beep sounds.
- 4 To stop recording, press the **Shutter** button all the way down again. A click sounds and the red **Viewfinder** light turns off. The camera automatically stops recording when the maximum clip length of 60 seconds is reached or the memory card is full.



NOTE Video files can be very large and use a lot of space on the memory card.

Taking self-timer pictures

In **Self-Timer** mode, the camera locks automatic exposure and focus and then takes the picture 10 seconds later. To use **Self-Timer** mode:



- 1 Secure the camera to a tripod or set it on a stable surface.
- 2 Select **Self-Timer**  on the **Capture Mode** selector.
- 3 Frame the subject you want to photograph, then press the **Shutter** button all the way down. The **Self-Timer** light on the front of the camera as well as the red **Viewfinder** light on the back blinks for 10 seconds before the picture is taken.

Recording audio

To record audio with still pictures, you must first turn on **Audio Record** in the **Setup** menu (the camera is shipped with **Audio Record** turned off). See “Adjusting camera settings” on page 49.

To record audio with a picture:

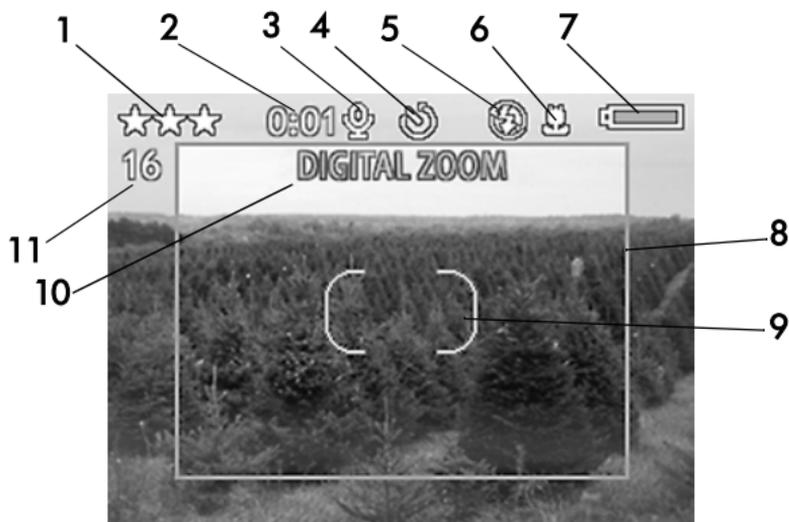
- 1 Press the **Shutter** button half-way down to begin audio recording (focus and exposure also lock).
- 2 Press the **Shutter** button all the way down to take the picture.
- 3 Continue to hold the **Shutter** button down until you are finished recording audio (up to 30 seconds or until the memory card is full).

NOTE A microphone appears on the **Display** and blinks while recording audio.

Using Live View

You can use the **Display** as a viewfinder by pressing the **Display**  button to turn it on.

In **Live View**, the following icons provide information about current camera settings.



#	ICON	Function
1	★★★ or 	★★★ Displays the quality setting for the current image  Shows the camera is set to Video mode
2	0:01	Counts audio or video recording
3		Appears when an audio clip is recorded

#	ICON	Function
4		Appears when the camera is set to Self-Timer mode and blinks during countdown
5		Shows current flash setting if other than Auto
6		Appears when the camera is set to Macro
7		Displays the battery condition
8	Digital crop	Displays the boundaries of the picture taken in Digital Zoom setting
9	Focus region	Two brackets frame the subject the camera is focusing on. The brackets are green when the Shutter button is pressed halfway down and the image is in focus. The brackets are red if the camera is unable to focus.
10	Info line	Appears for two seconds with an explanation when a camera setting is changed. It also displays error messages.
11	Pictures remaining	Displays the number of remaining pictures or recording time remaining for video clips.

Using Zoom

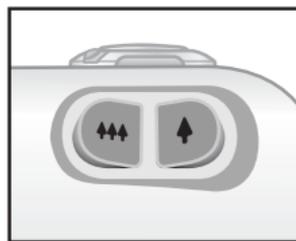
Optical zoom

Press the **Zoom** buttons to move the lens between wide angle and telephoto positions (1 to 3x).

Digital zoom

To use **Digital zoom**:

- 1 Press the **Display**  button to turn on **Live View**.



- 2 Press the **Zoom in**  button to optically zoom to the maximum position.
- 3 Release the **Zoom in**  button and then press it again and hold it until you reach the desired size (**Digital zoom** goes from 1.2x to 7x). A red cropping frame appears in the **Display** showing the region being captured.

To turn **Digital zoom** off, press the **Zoom out**  button until zooming stops, and then release the button.

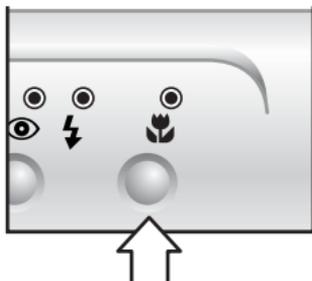
Using **Digital zoom** results in lower resolution and therefore smaller file sizes that are good for e-mailing or posting to the Web.

NOTE **Digital zoom** does not work with **Video** mode.

Using Macro setting

The **Macro** setting button moves between **Normal** and **Macro** focus settings.

Use the **Macro** setting for taking close-up pictures.

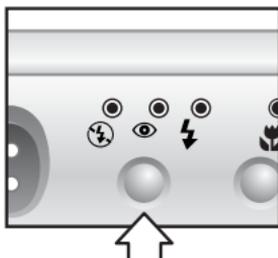


Setting	Light	Description
Normal	None	Auto focus is limited to a range of 0.5 m to infinity (default setting).
Macro		Amber macro light is on when the camera is set to Macro . The focus range is limited to <0.7 m.

Using flash settings

When the camera is on, the **Flash** is automatically set to **Auto**. To change the setting, press the **Flash** button.

The **Flash** setting button moves through the flash settings in the following order.



Setting	Light	Description
Auto	None	The camera measures light and flashes if necessary.
Flash off		The camera will not flash. Use this setting when you do not want a flash (such as bright conditions or distant objects).
Auto with Red-Eye		The camera measures light and flashes with red-eye reduction if necessary.
Flash On		The camera always flashes, called "fill-flash". Use this setting with bright back-lighting.

Understanding sleep and shutdown

In **Sleep** state, the camera is still on, but the **Display** is shut down to conserve power.

The camera goes into **Sleep** state when:

- There has been no menu activity for one minute.

- The batteries are low and you try to turn on **Live View**. The **Display** shuts off and exits any menus in operation.

NOTE To wake the camera from **Sleep**, press any button.

During normal operation, the camera shuts down when:

- You press the **On/Off** button.
- The camera no longer has sufficient power to operate. The **Power/Memory** light blinks with a fast blinking red light and the camera shuts off.
- The camera has been inactive for six minutes.

Managing batteries

The following battery levels are displayed during **Live View** and **Playback** and when the camera is connected to a computer or printer.

Level	Icon	Description
Full		Batteries have >1/3 life remaining
Good		Batteries have <1/3 life remaining
Low		Battery low and camera will shut down soon. Live View is disabled.
Depleted		"Blinking" battery is empty and the camera shuts down.
AC power	None	Camera is powered by AC.

The camera uses two AA batteries, preferably lithium-iron disulfide. These are typically called Photo Lithium batteries.

To extend battery life:

- Use the Optical **Viewfinder** to take pictures rather than **Live View**.
- Use either an HP AC adapter or HP camera dock when unloading pictures to your computer or connecting to a printer or TV.
- Turn the **Display** off during a pause in picture taking by pressing the **Display** button.
- Use **Auto Flash** rather than **Flash On** (fill flash), unless needed.
- Avoid zooming in and out unnecessarily.

Recharging batteries

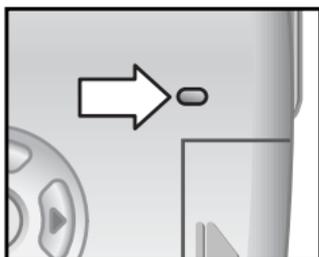
Your camera can charge rechargeable batteries in the camera. To recharge Ni-MH or Ni-Cd batteries, use either the optional HP AC adapter or the optional HP Photosmart camera dock 8881.

- 1 Turn the camera off (the camera charges only during the **Sleep** state or while it is off).
- 2 Plug in the HP AC adapter or place the camera in the HP camera dock.
- 3 The Power/Memory light blinks a slow green light while the batteries charge. When the batteries are fully charged, the light is off.

NOTE Battery charging is slow (trickle charging) and can take 15 hours to charge fully.

Power/Memory light

The Power/Memory light indicates power and memory status.



State	Indication
Solid green	Camera is on.
Slow blinking green	Camera is in Sleep state or off and charging batteries.
Fast blinking red	Camera has insufficient power and is shutting down.
Amber	Camera is reading from or writing to the memory card.
Off	Camera is off.

3 Managing images in the camera

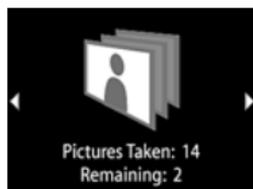
Viewing images

To review pictures you have taken, press the **OK** button with the **Display** off or from **Live View**. The last picture taken appears on the **Display**.



#	Icon	Description
1	◀ ▶	Displays for first few seconds to allow you to scroll through other pictures you have taken.
2	🔊 or 📺	🔊 Indicates image has an audio clip 📺 Indicates image is a video clip
3	5 of 14	Image number of total number of images

When you press the right arrow while viewing the last image, a screen appears showing the camera status. The first image appears if you press the right arrow again.



To turn the **Display** off after reviewing pictures, press **OK** or the **Display** button.

Main menu

Pressing the **Menu**  button displays the **Main** menu. Use the **Up/Down** arrows to highlight the menu options on the left of the **Display**. Highlight your choice and press the **OK** button to select it. Press the **Menu**  button again to exit the menu and return to viewing images.



#	Icon	Description
1	 or 	 Plays an audio clip  Plays a video clip
2		Deletes the current image, all images, or formats the memory card
3		Magnifies the displayed image
4		Manually rotates displayed image
5		Allows you to adjust camera settings
6		Shows battery condition
7	5 of 14	Shows the current image number from the total number on the memory card
8	date/ time	Shows the date and time that the current image was taken
9	 or 	 —Visible if the current image has an audio clip attached to it  —Visible if the current image is a video clip
10	★★★	Shows the quality for the current image, blank if image is a video clip
11	 or 	 —Visible if the current image is selected for printing  —Visible if the current image is selected for e-mail or other e-service.

Play

Selecting this option in the **Main** menu causes the camera to play either a video clip or an audio clip that is attached to a still image. If there is no audio clip or video clip, you cannot select this option.

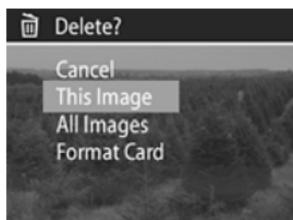
You can adjust the volume by pressing the **Up/Down** arrows while the clip is played.

To stop the clip while it is playing, press the **OK** button.

Delete

Selecting this option in the **Main** menu displays another screen with several options. Scroll up and down by pressing the **Up/Down** arrows. Press **OK** to choose the highlighted selection.

- **Cancel** returns to **Main** menu.
- **This Image** deletes the current image.
- **All Images** deletes all the images in the camera.
- **Format Card** deletes all images and files on the memory card.



Magnify

Selecting this option in the **Main** menu allows you to enlarge the image on the **Display**. This option is only for viewing an image on the **Display**; it does not permanently alter the image.

Pressing the **OK** button selects this option and magnifies the image 4x and causes four arrows to appear on the screen.

You can scroll around the image by pressing the **Up/Down** and **Left/Right** arrows.

Press **OK** to exit and return to the **Playback** menu.

NOTE If the image is a video clip, you cannot select this option.



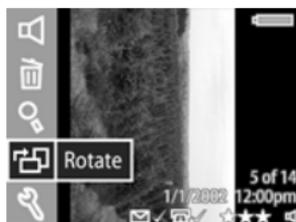
Rotate

Selecting this option in the **Main** menu rotates the image on the **Display** 90 degrees clockwise. When the rotation is complete, the **Main** menu appears again.



Each time you press the **OK** button, the image rotates an additional 90 degrees and the **Main** menu reappears.

NOTE If the image is a video clip, you cannot select this option.



Setup

For information on **Setup**, refer to Chapter 6, *Adjusting camera Settings*.



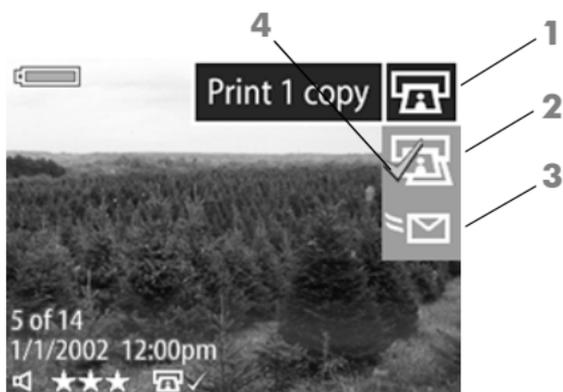
4 Using HP Instant Share

This camera has an exciting new feature called **HP Instant Share**. This feature lets you select images in the camera to be automatically processed later when the camera is connected to your computer or to certain HP printers.

For example, you can select images that you want to have printed, then connect the camera to the computer or printer, and the selected images will be printed automatically.

As another example, you can select images in the camera to be automatically processed by HP's e-mail service. When the camera connects to your computer, the selected images are uploaded to an HP website, and e-mail is sent to family or friends that point to the location of your pictures.

To use the HP Instant Share feature, press the **Share**  button on the camera. The **Share** menu appears on the camera **Display**. The following illustration and table provide information about the **Share** menu.



#	Icon	Description
1		Print 1 copy of current image at a standard size. If paper size is 4x6" or 8.5x11", the picture is printed 4x6". If paper size is 10x15cm or A4, the picture is printed at 10x15cm.
2		Print 2 copies of current image at a standard size.
3		E-mail... This selection brings up a new screen to customize the Share menu with specific addresses. You must customize the Share menu before using it to send e-mail.
4	✓	Check mark indicates the destination has been selected for the currently displayed image. (You can select more than one destination per image.)

Using HP Instant Share to Print Pictures

- 1 Turn the camera on, then press the **Share** (🔗) button.
- 2 Use the **Left/Right** arrows to scroll to the image that you want to print.
- 3 Use the **Up/Down** arrows to scroll to the print option that you want.
- 4 Press **OK**. A check mark appears next to that option. (To print three copies of an image, select both **Print 1 copy** and **Print 2 copies**)
- 5 Scroll to other images by using the **Left/Right** arrows and repeat steps 3 and 4 to select print options for each image.
- 6 When you are finished selecting all the images you want to have printed, press the **Share** (🔗) button.
- 7 The next time you connect the camera to your computer or a compatible printer, the images you selected will be automatically printed. See “Connecting” on page 41 for information about connecting the camera to a computer or printer.

NOTE Video clips cannot be selected for printing in the **Share** menu.

NOTE The **Share** menu creates a standard Digital Print Order Format (DPOF) file for print options.

Using the HP Instant Share E-mail Service

Using HP Instant Share to e-mail images involves three steps:

- 1 Adding e-mail addresses to the camera's **Share** menu.
- 2 Selecting images to be sent to the E-mail service using the **Share** menu on the camera.
- 3 Connecting to the computer to send selected images.

Adding e-mail addresses to your camera

NOTE You will need an internet connection to complete this procedure.

- 1 Turn on the camera, press the **Share**  button, then select the **E-mail...**  option and press **OK**. A message on the camera Display appears asking you to connect the camera to your computer.
- 2 Connect the camera to your computer (by using a USB cable or an optional HP camera dock)
- 3 On the computer, click on **Retrieve from Camera**.
- 4 In the screen called **Modify Share Menu** check to see that **Photo E-mail** is visible above the **Add...** button, then click on the **Add...** button.
- 5 If you are using a Macintosh computer, skip to step 7. If you are using a computer running Windows, you will be asked to sign in to HP's Passport program. HP Passport allows you to use HP's free e-mail service and other services that may be available in the future. The first time you see this screen, you will need to register as a new user. Follow the instructions in the screen for doing that.

- 6 Once you have successfully registered, sign in to the HP Passport program, and then the **Photo E-mail Setup** screen will appear. Here, you can enter an e-mail address and specify how you want it to appear in the camera's **Share** menu. You can also enter a subject and message to go with the e-mail that will be sent to that address. After completing the form, click **Next**. In the confirmation screen that appears, click **Finish**.
- 7 Your newly added e-mail destination should now appear in the **Modify Share Menu** screen (in the **Current Share Menu** section). To add additional e-mail addresses to the **Share** menu, repeat steps 4-6 (you will not need to sign in to the HP Passport program again).
- 8 When you have finished adding e-mail addresses, click on **Save to Camera** to add the new addresses to the camera **Share** menu. When the computer confirms that the addresses were saved to your camera, disconnect the camera from the computer, and press the **Share**  button to view the new e-mail destinations in your Share menu.
- 9 You are now ready to select images on the camera to be e-mailed. See the next section for how to do this.

Selecting images to be e-mailed

- 1 Turn the camera on, then press the **Share**  button.
- 2 Use the **Left/Right** arrows to scroll to the image you want to e-mail.
- 3 Use the **Up/Down** arrows to scroll to the e-mail address that you want.
- 4 Press **OK**. A check mark appears next to that option. (You can select more than one e-mail address or print option for an image.)
- 5 Scroll to other images by using the **Left/Right** arrows and repeat steps 3 and 4 to select e-mail addresses.
- 6 When you are finished selecting all the images you want to have e-mailed, press the **Share**  button.
- 7 The next time you connect the camera to your computer, images are unloaded to your computer, and the images you selected for e-mail will be uploaded to the special HP website. An e-mail message will be sent to every address that you had selected for each image. See “Connecting” on page 41 for information about connecting the camera to a computer.

NOTE Video clips cannot be selected for e-mail in the **Share** menu.

NOTE The images in your camera are not e-mailed to anyone directly as attachments. Rather, a message is sent to one or more e-mail addresses that you can specify in the camera’s Share menu. The message contains a web link where the recipient can view your images. From that web page, the recipient can do things like reply to you or print the image. 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.

5 Connecting

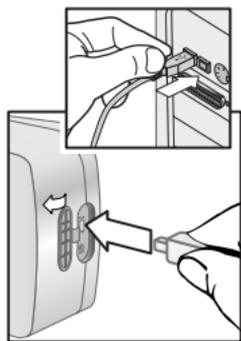
Connecting to a computer

Connect the camera to your computer to unload images. The camera connects to your computer using a USB cable.

NOTE You can also connect your camera to a computer by using the optional HP camera dock. See *Connecting to the HP camera dock* later in this chapter.

NOTE If you are using a Macintosh computer, switch the camera to **Disk Drive** in the **USB Configuration** menu found in the **Setup** menu.

- 1 Connect the flat end of the USB cable to the computer.
- 2 Open the rubber door on the side of the camera, and connect the round end of the USB cable to the USB/TV connector on the camera.
- 3 Turn the camera on. The **HP Image Unload** software will launch on your computer, and the images in the camera will automatically unload to the computer. If there were any images on the camera that had been selected in the **Share** menu for printing or e-mail, those actions are started after the images have been unloaded to the computer.
- 4 When the unload screen says “Finished”, your images have been saved and shared. You can now disconnect the camera from the computer.

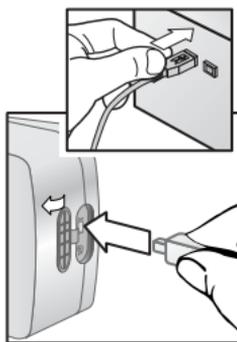


Connecting to a printer

You can connect the camera directly to HP DeskJet and Photosmart printers that have a USB connection. You can then print images selected from the **Share** menu or all images in the camera. Your camera came with a special USB cable for connecting the camera to a printer.

NOTE You can also connect your camera to a printer by using the optional HP camera dock. See *Connecting to the HP camera dock* later in this chapter.

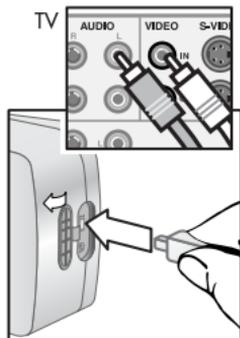
- 1 Connect the square end of the USB cable to the printer.
- 2 Open the rubber door on the side of the camera and connect the round end of the USB cable to the USB/TV connector on the camera.
- 3 After connecting the camera to the printer, the **Print Setup** screen appears on the camera. Follow the on-screen instructions to complete the printing process.



Connecting to a television

NOTE If you have the optional the HP camera dock, see *Connecting to the HP camera dock* later in this chapter.

- 1 To connect the camera directly to a television, you must first purchase a custom cable (HP #Q2146-61601). This cable is listed in the accessory catalog included in the camera box.
- 2 On the camera, check that the **TV Configuration** setting in the **Setup** menu is set for your area. See “Changing the TV configuration setting” on page 53.
- 3 Connect the TV cable to the USB/TV connector on the camera, and then to the Audio/Video input on the television.
- 4 Refer to the documentation for your television to determine how to set the television to take video input from your camera instead of the antenna or cable TV.
- 5 When connected, the camera starts a slide show of each image, playing any attached audio clip or video clip, and then fading to the next image.



NOTE The **Display** on the camera turns off when the camera is connected to a TV.

You can also manually scroll through the images by pressing the **Left/Right** arrows on the camera.

NOTE You can still use the **Main**  and **Share**  menus while connected to the television.

Connecting to the HP camera dock

NOTE The camera dock does not work without AC power. Be sure to use **ONLY** the HP AC adapter and the cables that came with the camera dock.

- 1 Follow the setup instructions provided with the HP camera dock. This includes installing the **Camera Dock Insert** onto the dock, installing rechargeable batteries in the camera, connecting the AC power source, and connecting the camera dock to a computer, printer, and/or television.
- 2 Remove the dock plug from the bottom of your camera. Also remove any cables that are connected to the camera.
- 3 Place the camera in the HP camera dock with the rear of the camera facing the front of the camera dock.



The camera dock has three I/O connectors on the back:

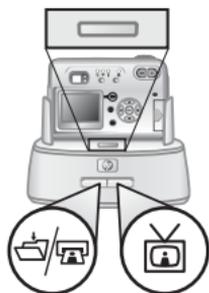
-  —Connects to the television
-  —Connects directly to HP USB DeskJet and Photosmart printers
-  —Connects to your computer



There is a sliding door over the computer and printer connectors that prevents you from selecting both connectors at the same time (the camera dock is not a USB hub).

The camera dock has a light near the top front that provides battery charging status. A blinking light indicates that batteries are charging.

There are two buttons on the front that light to show that the camera is connected to the associated device.



-  — This button activates the connection to the computer or the printer, depending on which of those devices is connected to the dock.
-  — This button activates the television connection.

The functions of the dock button lights are described below:

State	Indication
On	Camera dock has power and a device is connected. When you press a button for one device, the other button device light goes out.
Blinking	The selected device is active.
Off	<ul style="list-style-type: none">● The device selected is not connected to the camera dock.● The device selected is not available because the other device is active.● Camera dock has no power or there is no camera connected.

Unloading images to a computer using the dock

NOTE If you are using a Macintosh computer, switch the camera to **Disk Drive** in the **USB Configuration** menu found in the **Setup** menu.

- 1 Check that the HP camera dock is connected to your computer.
- 2 Place the camera in the HP camera dock. It will turn on automatically.
- 3 Press the  button on the dock to start the unload process. The **HP Image Unload** software will launch on your computer, and the images in the camera will automatically unload to the computer. If there were any images on the camera that had been selected in the **Share** menu for printing or e-mail, those actions are started after the images have been unloaded to the computer.
- 4 When the unload screen says “Finished”, your images have been saved and shared. You can now take the camera out of the dock, or leave it there to recharge the camera batteries.

Printing images using the dock

- 1 Check that the HP camera dock is connected to your printer. (The dock cannot be connected directly to both a computer and a printer at the same time).
- 2 Place the camera in the HP camera dock. It will turn on automatically.
- 3 Press the  button on the dock to start printing.
- 4 The **Print Setup** screen appears on the camera. Follow the on-screen instructions to complete the printing process.

Displaying images on a TV using the dock

- 1 Check that the HP camera dock is connected to your TV.
- 2 Refer to the documentation for your television to determine how to set the television to take video input from your camera instead of the antenna or cable.
- 3 On the camera, check that the **TV Configuration** setting in the **Setup** menu is set for your area. See “Changing the TV configuration setting” on page 53.
- 4 Place the camera in the dock. It will turn on automatically.
- 5 Press the  button on the dock to start displaying images. The camera starts a slide show of each image, playing any attached audio clip or video clip, and then fading to the next image. You can also manually scroll through the images by pressing the **Left/Right** arrows on the camera

NOTE The **Display** on the camera turns off when the camera is connected to a TV.

NOTE You can still use the **Main**  and **Share**  menus while connected to the television.

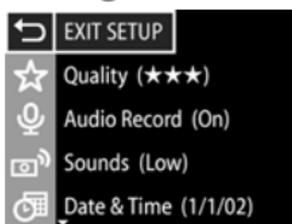
6 Adjusting camera settings

You can personalize the camera settings by using the **Setup** menu. Press the **Menu**  button on the back of the camera to display the **Main** menu. Select the **Setup** menu option using the **Up/Down** arrows.



When you select the **Setup** option, a two page screen appears showing the following choices. The current camera settings are shown in parentheses.

Page one



Page two



Use the **Up/Down** arrows to scroll through the settings and then press the **OK** button to select the setting you want to change. A new screen appears for that setting. Each of these screens are described in the following pages.

After changing settings, select **EXIT SETUP** to return to the **Main** menu.

Setting still image quality level

The higher the quality, the better the image looks, especially when it is enlarged. However, the higher the quality, the more memory is used.



- 1 Select **Quality** in the **Setup** menu.
The **Quality Level** screen appears.
- 2 Using the **Up/Down** arrows,
highlight the quality you want and then press **OK**.

Setting	Pictures on a 16 MB card	Description
★★★★	5	Highest quality level. Image is saved at full resolution at a very low compression rate. 27.9x43.1cm (11x17") maximum print size
★★★	14	Medium-high quality level. Image is saved at full resolution at a medium compression rate. 20.3x25.4cm (8x10") maximum print size
★★	28	Medium-low quality level. Image is saved at 1/4 resolution with a medium compression rate. 12.7x17.8cm (5x7") maximum print size
★	56	Lowest quality level. Image is saved at 1/4 resolution with a high compression rate. 8.9x12.7cm (3x5") maximum print size (best for e-mail and web)

Setting automatic audio recording

You can choose to turn automatic audio recording on or off.

- 1 Select **Audio Record** in the **Setup** menu. The **Audio Record** screen appears.
- 2 Using the **Up/Down** arrows, select either on or off and then press **OK**.



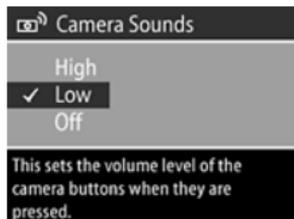
For more information on **Audio**, see Chapter 2.

Adjusting camera sounds

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

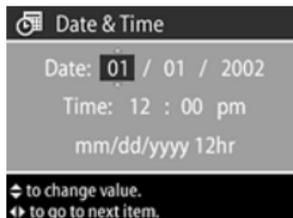
You can choose to adjust or turn your camera sounds on or off.

- 1 Select **Camera Sounds** in the **Setup** menu. The **Camera Sounds** screen appears.
- 2 Using the **Up/Down** arrows, highlight the sounds you want and then press **OK**.



Changing date and time

- 1 Select **Date & Time** in the **Setup** menu. The **Date & Time** screen appears.
- 2 Follow the instructions on the **Display** to adjust date and time.

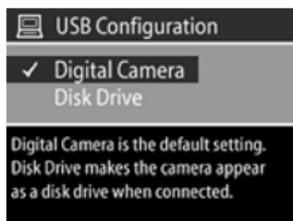


You can select the format as **mm/dd/yy**, **dd/mm/yyyy**, or **yyyy/mm/dd**, and 12 or 24 hour time.

- 3 Press **OK** when the correct date and time appears.

Changing the USB configuration setting

This selection determines how the camera appears when connected to a computer.



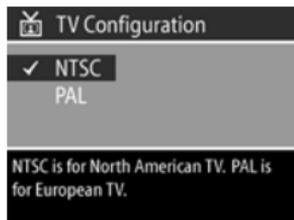
- 1 Select **USB** in the **Setup** menu. The **USB Configuration** screen appears.
- 2 Using the **Up/Down** arrows, make one of the following two choices and then press **OK**.
 - **Digital Camera** — connects to the computer by using Picture Transfer Protocol (PTP) (default setting used most often for computers running Windows).
 - **Disk Drive** — connects to a computer as a USB Mass Storage Device Class (MSDC) and appears as a disk drive in the computer's file structure. (Use this setting for automatic unloading and sharing features on a Macintosh computer.)

Changing the TV configuration setting

This selection sets the format of the video signal for displaying camera images on a television with an optional cable or HP camera dock.

- 1 Select **TV Configuration** in the **Setup** menu. The **TV Configuration** screen appears.
- 2 Using the **Up/Down** arrows, make one of the following two choices and then press **OK**.
 - **NTSC** — used primarily in North America and Japan
 - **PAL** — used primarily in Europe

For more information on connecting the camera to a TV, refer to Chapter 5.



Changing the language

This selection sets the language of the menus and text on the camera **Display**.

- 1 Select **Language** in the **Setup** menu. The **Language** screen appears.
- 2 Using the **Up/Down** arrows, select a language and then press **OK**.



Exiting setup

Selecting **EXIT SETUP** takes you back to the **Main** menu.

7 Troubleshooting

Problems and solutions

Problem	Possible cause	Solution
The camera does not turn on.	The batteries are not functioning correctly.	Use only photo-quality AA lithium, alkaline, Ni-Cd or Ni-MH batteries. Ensure the batteries are inserted correctly. The charge in the batteries can be low or completely drained. Try installing new or recharged batteries.
	The HP AC power adapter is not functioning correctly.	Ensure the HP AC power adapter is not damaged or defective and plugged into an electrical outlet with power.
	The HP AC power adapter is connected to the camera, but it is not connected to a power outlet.	If you want to use battery power, disconnect the HP AC adapter from the camera. If you want to use HP AC power, connect the HP AC adapter to a working electrical outlet.

Problem	Possible cause	Solution
The camera does not respond when I press a button.	The camera is off.	Turn on the camera.
	The camera is connected to a computer.	The camera buttons do not respond when the camera is connected to a computer.
	The batteries are drained.	Replace the batteries.
	The button may be inactive for the current setting.	Check the manual for proper button operation.
	The camera could be "hung".	Remove the batteries and let the camera sit for 48 hours. Reinstall the batteries and try again.
The camera does not take a picture when I press the Shutter button.	The camera is not in desired capture mode.	Check the Capture Mode selector.
	The camera is in the camera dock.	Remove the camera from the camera dock.
	You did not press the Shutter button hard enough.	Press the Shutter button all the way down until you hear a click and see your image on the camera Display .

Problem	Possible cause	Solution
<p>I replace the camera batteries frequently.</p>	<p>Extended Display use, excessive fill flash use, and excessive zoom use consume a lot of battery power.</p>	<p>Use the optical viewfinder instead of Live View to take pictures.</p> <p>Use an HP AC power adapter to power the camera when you are using the Display for an extended period of time and when you are unloading several images to your computer.</p> <p>Use fill flash only when needed.</p> <p>Use zoom only when needed.</p> <p>Do not use ordinary alkaline batteries. Purchase higher-grade batteries, such as "ultra" or "premium" grade alkaline or photo lithium batteries, or switch to rechargeable Ni-MH batteries.</p>
	<p>The Ni-MH batteries you are using were recharged incorrectly.</p>	<p>You must recharge both Ni-MH batteries after fully draining them four times for the batteries to reach their optimum capacity and performance.</p>

Problem	Possible cause	Solution
The wrong date and/or time is shown.	The batteries are dead or were removed from the camera for more than 10 minutes.	Replace the batteries and reset the date and time by using the camera menus. To avoid losing date and time information, replace low batteries promptly.
A long delay occurs between the time I press the Shutter button and the camera takes a picture.	The camera is still saving the last picture you took.	Wait a few seconds for the camera to finish processing the image, and then press the Shutter button halfway down. When a steady green light appears next to the viewfinder, the camera is ready to take another picture.
	The flash is recharging.	Wait until the green light in the viewfinder stops blinking before taking another flash picture.
	The light is low, and the flash is turned off.	In dim light the camera requires a longer exposure. Use a tripod to hold the camera steady, improve the lighting conditions, or use the flash.
	The camera is in Self-Timer mode.	Switch to Still mode.

Problem	Possible cause	Solution
My image is blurry.	Your subject was too close to the camera lens.	Do not try to get closer than the camera's minimum focus range of 0.14m (~5.5 inches) wide angle and 0.4m (~15.7 inches) at other focal lengths.
	The subject wasn't centered in the frame or the subject did not provide enough contrast for the camera to focus properly.	You can lock the focus by pointing at your subject and then pressing and holding the Shutter button halfway down. Re-frame your subject, then press the Shutter button all the way down.
	You moved the camera while you took the picture.	Hold the camera steady as you press the Shutter button or use a tripod.
	The scene was dark so the exposure was long.	Turn on flash or use a tripod.

Problem	Possible cause	Solution
My image is too dark.	There was not enough light.	Wait for natural lighting conditions to improve or add indirect lighting.
	The flash was turned off.	Turn Auto Flash setting on.
	The flash was on, but the subject was too far away.	Make sure your subject is within 2.5 m (~8 feet) of the camera when you take the picture.
	A light shone behind the subject.	Use Flash On setting to brighten the subject when there is a bright light such as the sun or a window behind your subject.
	Your finger blocked the flash.	Be sure to move your fingers away from the flash when you take a picture.

Problem	Possible cause	Solution
My image is too bright.	The flash provided too much light.	Change the flash setting to Flash Off .
	A natural or artificial source other than the flash provided too much light.	Try taking the picture from a different angle. Avoid pointing the camera directly toward a bright light or reflective surface on a sunny day. If there is light behind your subject, use the Flash On .
	You were too close to the subject to use the flash.	Move back from the subject or set the flash to Flash Off and take the picture again.

Problem	Possible cause	Solution
When I connect the camera to my computer, the software says it cannot find the camera.	The camera is turned off.	Turn on the camera.
	The cable is not connected correctly.	Make sure that the cable is firmly connected at both ends.
	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.
When I connect the camera to a Macintosh computer, I do not get a disk drive icon on my desktop.	Camera USB Configuration setting is not set to Disk Drive .	Change the USB Configuration setting to Disk Drive .

Error messages

Error messages on the Display

Message	Possible cause	Solution
Unable to focus	The subject did not provide enough contrast for the camera to focus properly.	You can lock the focus by pointing at your subject and then pressing and holding the Shutter button halfway down while you re-frame your subject. When the green light comes on, press the Shutter button all the way down.
Focus too far	The focus distance is beyond where the camera can focus.	Make sure the camera is not in Macro setting.
Focus too close	The focus distance is closer than the camera can focus.	Put the camera in Macro setting or, if in Macro setting, move further away from the subject.
Low light	It is too dark to take a properly exposed picture.	Try turning on the Auto Flash .

Message	Possible cause	Solution
Too much light	It is too bright to take a properly exposed picture.	Try to recompose the picture to reduce the amount of bright white objects in the scene. Also, avoid pointing the camera directly into the sun or into a bright light.
Unsupported card	The card in the memory slot is not a memory card.	Check and ensure that the card is a Secure Digital memory card.
Card is write-protected	The locking tab on the side of the memory card is in the locked position.	Switch the locking tab to the unlocked position to add new pictures or delete old ones.
Battery low	Battery power is low and the camera will shut down soon.	Either recharge or replace the batteries.
No images in camera	There are no images in the camera and you are trying to review them.	Take some pictures.
No card in camera	You are attempting to use the camera without a card installed.	Install a memory card.

Message	Possible cause	Solution
Card full	You are attempting to take pictures when the card is full.	Unload the pictures from the camera, delete unwanted pictures, or replace the card with a new one.
Card is unformatted	Card needs to be formatted.	Format the memory card by using the Format Card option in the Delete menu. This will delete all data on the card. NOTE If you format the memory card on a Windows XP computer, you must change the setting on the computer to FAT 16 from the default of FAT 32.
Card has wrong format	The card is formatted for a different device such as an MP3 player.	Re-format the card using the Format Card option in the Delete menu.
Unable to format	The card is corrupted.	Replace the card.

Message	Possible cause	Solution
Cannot display image	Possibly comes from copying images to the card from a computer or a corrupted image caused by the camera not shutting down properly.	Use the HP software to edit the images copied on the card. Also, do not remove batteries or the memory card when the camera is turned on.
Unable to communicate with the printer	There is no connection between the camera and printer.	Make sure the cables are connected between the camera or camera dock and the printer. 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.
	A supported printer is either turned off or not connected to the camera.	Make sure the camera is connected to a supported printer and that the printer is turned on.

Message	Possible cause	Solution
Unsupported printer	The printer is not supported by HP Direct Print capability.	Either purchase a printer with Direct Print capability or connect the camera to a computer and print from there.
Unknown device	The camera is connected to a USB device that it does not recognize.	Make sure you are connected to a supported printer or computer.

Error messages on the computer

Message	Possible cause	Solution
Connection between the imaging device and computer failed.	The camera might be connected to a computer through a USB hub.	Try connecting the camera directly to the computer or printer or disconnect other devices attached to the hub.
Photos are still present on the camera.	You have not chosen to have the images deleted from the camera when you unload them to a computer.	If you want to have the software automatically delete images from the camera after unload, choose that option in the Image Unload Settings screen of the software.

Getting assistance

Finding help on the web

HP product support

Visit www.hp.com/go/support to find information for your camera model. You can choose information about setting up and using your camera, unloading drivers, solving a problem, ordering, and information about the warranty.

HP photosmart website

Visit www.hp.com/photosmart for tips on using your camera more effectively and creatively as well as HP digital camera driver updates and software.

HP accessibility website

Visit www.hp.com/hpinfo/community/accessibility/prodserv/ if you have a disability and need help.

Contacting HP Customer Support

In addition to the Web, you can contact HP by telephone or mail for support and service for your camera. Prices, availability, and hours of support are subject to change without notice.

How HP can help

The HP support hotline can help resolve problems with setup, installation, configuration, and operation. For help with non-HP hardware or software, please contact the manufacturer.

Before you call

Review troubleshooting tips.

Have the following information ready before you call:

- serial number (found on the bottom of your camera)
- product name
- date of purchase

Hardware repair services

If you think your camera or camera dock needs repair, first call the Customer Support Center, which can help determine if service is required and direct you to a service site. Otherwise, contact the store where you purchased the product. Or, visit www.hp.com/cpso-support/guide/psd/repairhelp.html for the nearest sales and service office.

Service is free of charge during the warranty period. Beyond the warranty period, service will be charged.

Obtaining support in the United States

Free telephone support for one year

Within one year of your purchase, telephone support is provided to you free of charge. If this is a long distance call for you, long distance charges will apply.

Call (1) (208) 323-2551.

Our support staff is available from 6 am to 10 pm Mountain Time, Monday through Friday, or 9 am to 4 pm Saturday.

After the first year

Call (1) (208) 323-2551.

A fee of \$25.00 per call (U.S.) will be charged to your credit card. Charges begin only when you connect with a support technician.

Upgraded warranty options

You can select one of the following upgraded warranty options (available in the U.S. only):

- Standard Next Day Exchange
- Accidental Damage Protection with Next Day Exchange

Upgrade your standard factory warranty to three years with the HP SupportPack. Service coverage begins on product purchase date and the pack must be purchased within the first 180 days of product purchase. HP will determine the hardware service offering based upon the outcome of system self-test programs run by the customer through the initial call to the HP Customer Care Center. If during your technical support call it is determined that your product needs replacement, HP will ship you this replacement product next business day free of charge. Optional Accidental Damage Protection is also available. This warranty upgrade protects against accidental breakage such as spills, drops, or falls. Both of these warranty upgrades offer maximized uptime and productivity, the convenience of door-to-door pickup with delivery, packaging and freight prepaid by HP.

For more information call 1-888-999-4747 or visit www.homeandoffice.hp.com and select "warranty upgrades" under "product support."

Obtaining support worldwide

Telephone support is free for 1 year in Asia and the South Pacific and 30 days in the Middle East and Africa.

The information contained in this document and the applicable conditions for HP phone support are subject to change without notice. Please check for the latest information and conditions at www.hp.com/cposupport/loc/regional.html

Alternatively, you can ask your dealer or call HP at the phone number listed in this document. For English support in Europe, contact +44 (0) 207 512-52-02.

Algeria +213 (0)61 56 45 43

Argentina 0-810-555-5520

Australia +63 (3) 8877 8000 (or local (03) 8877 8000)

Austria +43 (0)810-00-6080

Belgium Dutch: +32 (0)2 626-8806
French: +32 (0)2 626-8807

Brazil (11) 4689-2012 (Grande São Paulo)
0800 157 751 (outside Grande São Paulo)

Canada 905-206-4663 (during the warranty period)
877-621-4722 (after the warranty period)

Chile 800-360-999

China +86 (10) 6564-5959

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Denmark +45 39-29-4099

Egypt 02 532-5222

Finland +358 (0)203-47-288

France +33 (0)8 92-69-60-22 (Euro 0.34/min)

Germany +49 (0)180-52-58-143 (DM .24/min, Euro 0.12/min)

Greece +30 10-60-73-603

Guatemala 1-800-999-5305

Hong Kong +852 3002-8555

Hungary +36 (0)1 382-1111

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Ireland +353 (0)1 662-5525

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Korea, Republic of +82 (2) 3270-0700 (Seoul)
0-80-999-0700 (outside Seoul)

Malaysia 1-800-805-405

Mexico +52 5 52-58-9922 (Mexico City)
01-800-472-6684 (outside Mexico City)

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United Arab Emirates +971 4-883-8454

United Kingdom (UK) +44 (0) 207-512-52-02

Venezuela 800-477-7777

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Hewlett-Packard limited warranty statement

The HP photosmart 812 camera comes with a one year limited warranty.

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- HP products may contain remanufactured parts equivalent to new in performance or may have been subject to incidental use.
- Warranty does not apply to defects resulting from (a) improper or inadequate maintenance or calibration, (b) software, interfacing,

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A Appendix

Camera specifications

Feature	Description																				
Sensor	3.92 MP effective pixel, 4.13 total, 1/1.8-inch CCD																				
Color depth	30-bit (10 bits x 3 colors)																				
Resolution	3.92 MP (2280x1720 effective pixel count) 4.13 MP (2384x1734 total pixel count) 3.89 MP (2272x1712 file size)																				
Memory type	One SD card slot. 16 MB card included																				
Memory capacity	16 MB card <table><thead><tr><th>Quality</th><th># Images</th><th>File Size</th><th>Resolution</th></tr></thead><tbody><tr><td>★</td><td>56</td><td>250 KB</td><td>1136x848</td></tr><tr><td>★★</td><td>28</td><td>500 KB</td><td>1136x848</td></tr><tr><td>★★★</td><td>14</td><td>1 MB</td><td>2272x1712</td></tr><tr><td>★★★★</td><td>5</td><td>2.5 MB</td><td>2272x1712</td></tr></tbody></table>	Quality	# Images	File Size	Resolution	★	56	250 KB	1136x848	★★	28	500 KB	1136x848	★★★	14	1 MB	2272x1712	★★★★	5	2.5 MB	2272x1712
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★★★★	5	2.5 MB	2272x1712																		

Feature	Description
Lens	<p><i>Focal length</i></p> <ul style="list-style-type: none"> ● Wide – 7.6 mm ● Telephoto – 22.8 mm <p><i>F-Number</i></p> <ul style="list-style-type: none"> ● Wide – 2.6 ● Telephoto – 4.8 <p>TTL auto focus</p>
Zoom	<p>3x optical, 7x digital zoom</p> <p>37-111 mm (35 mm equivalent)</p>
Capture modes	Still, Self-Timer, and Video
Exposure control	Auto exposure
Aperture	<p>Wide: f/2.6 – f/5.0</p> <p>Tele: /f4.8 – f/9.0</p>
Shutter speed	1/2000 to 12 seconds
Audio & video capture and playback	<p><i>Still pictures</i></p> <p>30 seconds of audio captured with every picture (can be turned on/off in Setup menu)</p> <p><i>Video</i></p> <p>Audio captured with video (cannot be turned off)</p>
Flash settings	Auto, flash off, auto w/red-eye, flash on
Flash working distances	<p>Wide zoom—0.5 to 2.8m</p> <p>Telephoto zoom—0.5 to 2.0m</p>

Feature	Description
Focus	TTL auto focus Normal: 0.50m to infinity Macro: 0.14m to 0.70m (wide focal) 0.40m to 0.70m (greater than wide focal length)
ISO (Sensitivity)	Auto (ISO 100 - 400)
Metering	Average
White Balance	Automatic
Self-Timer	10 second delay
Viewfinder	Zooming optical viewfinder
Flash guide number	Built in flash with range up to 2.5 meters @ wide
LCD	Color LED Backlit, 1.5" polysilicon TFT LCD 4x playback zoom
Compressed format	JPEG (EXIF) MPEG-1 for video clip
Video out	Slide show on TV using A/V out capability

Feature	Description
Power	<p>2 AA batteries (included) or optional HP AC adapter</p> <p>Slow trickle recharging in camera with optional HP AC adapter or HP camera dock (100% in 15 hours)</p> <p>Automatic advanced power management</p> <p>The camera has a maximum power consumption of 2.5 A.</p>
Interfaces	<p>USB/TV connector</p> <ul style="list-style-type: none"> ● USB to your PC ● USB to HP USB DeskJet and Photosmart printers ● Audio/Video to TV <p>AC in camera dock interface</p>
Standards	<ul style="list-style-type: none"> ● PTP transfer (15740) ● MSDC transfer ● NTSC/PAL ● JPEG ● MPEG-1 ● DPOF-1 ● EXIF ● DCF
Tripod mount	Yes

Feature	Description
Dimensions	External Body Dimensions: 95mm (L) x 41mm (W) x 70mm (H) With lens fully extended 95mm (L) x 60mm (W) x 70 mm (H)
Weight	199 grams (without batteries) 7 ounces (without batteries)
Warranty	HP 1 year exchange warranty

Index

A

- AC power adapter
 - connector **11**
 - HP part number **78**
 - not working correctly **55**
- AC power indicator **26**
- audio clips
 - play and adjust volume **32**
 - record **10, 21, 51**
 - recording indicator **22**
- audio/video connector **43**
- Auto flash setting **12, 25**
- Auto with Red-Eye setting **25**
- automatic
 - exposure/focus **21**
 - shutdown **26**

B

- batteries
 - condition indicator **22**
 - door on camera **14**
 - extend life **27, 57**
 - indicators **26**
 - install **15**
 - need replacement often **57**
 - not working correctly **55**
 - recharge **27**
 - types to use **27**
- blinking lights
 - on camera **19, 28**
 - on dock **45**
- bonus software **17, 18**

buttons

- on camera **10**
- on camera dock **45**

C

- camera dock. *See* HP camera dock
 - Capture mode **10**
 - compression format **77**
 - computer
 - connect camera to **41**
 - connect dock to **44**
 - connections
 - as a USB Mass Storage Device Class (MSDC) **52**
 - failed **67**
 - to camera dock **44**
 - to computer **41**
 - to printer **42**
 - to TV **43**
 - USB/TV **52**
 - connectors
 - audio/video **43**
 - HP camera dock **14, 44**
 - power adapter **11**
 - USB/TV **11**
 - conserve power **25**
 - customer support **68**
- ## D
- date and time
 - change **52**
 - set **16**
 - wrong one displayed **58**

delay, shutter button **58**
delete images and files **32**
Digital Print Order Format **37**
digital zoom **22, 23**
disk drive, connect as **52**
dock. See HP camera dock
DPOF **37**

E

e-mail addresses, adding to
 Share menu **38**
e-mail feature **35**
empty battery indicator **26**
enlarge images **33**
error messages **63**
exposure/focus, automatic **21**

F

files
 compression formats **75**
 delete on memory card **32**
 DPOF **37**
 size versus quality **50, 75**
flash
 automatic **12**
 buttons and lights **11, 12, 13**
 current setting **22**
 provided too much light **61**
 range **60, 76**
 settings **12, 25**
focus
 automatic **21**
 lock **19, 59**
 problems **63**
 range **59, 77**
 range for Macro setting **24**
 region **22**
format card **32**

H

help from customer support **68**
HP camera dock
 buttons **45**
 connect to **14, 44**
 description **9**
 display to TV **47**
 printing from **46**
 unload images **46**
HP Instant Share
 button **13**
 description **9, 35**
 turn on/off **13**
HP SupportPack **70**
HP Web sites **68**

I

images
 delete **32**
 magnify **33**
 rotate **34**
 set quality level **50**
 unloading camera to
 computer **41**
 unloading using camera
 dock **46**
 view **29**
install
 batteries **15**
 bonus software **17, 18**
 camera dock **9**
 memory card **15**
 software **17**
Instant Share. See HP Instant
 Share

L

- language
 - change **53**
 - choose **16**
- LEDs (lights) on camera
 - description **10**
- lights
 - on camera, blinking **19, 28**
 - on dock, blinking **45**
- Live View **13, 22**
- lock focus **19, 59**
- low battery indicator **26**

M

- Macintosh computer
 - bonus software **18**
 - connect to **41, 46**
 - install software **18**
 - USB setting **52**
- Macro Focus **13, 22, 24**
- magnify images **33**
- Main menu **30**
- memory card
 - capacity **50, 75**
 - delete files **32**
 - install **14, 15**
 - troubleshoot **65**
- memory indicator **14, 28**
- Menu on/off button **13, 30**
- messages, error **63**
- microphone **10, 22**
- mount for tripod **14**

N

- NTSC video signal **53**

O

- on/off button **10**

- optical viewfinder **11, 12**
- optical zoom **23**

P

- PAL video signal **53**
- Picture Transfer Protocol **52**
- pictures
 - number remaining **22**
 - review **20, 29**
 - share **35**
 - take **19**
- play video or audio clips **32**
- power
 - adapter **11**
 - automatic conservation **25**
 - indicator **14, 26, 28**
 - insufficient **28**
 - specifications **78**
 - turn on/off **16**
- print images
 - automatically with HP Instant Share **35**
 - directly from camera **42**
 - using camera dock **46**
- printer
 - connect dock to **44**
 - connect to camera **42**
 - unsupported **67**
- PTP **52**

Q

- quality levels **22, 31, 50**

R

- range
 - flash **60, 76**
 - focus **59, 77**
- recharge batteries **27**

- record
 - audio clips **10, 21, 51**
 - video clips **20**
- recycling information **3**
- red-eye **13, 25**
- repair and replace services **69**
- review pictures **20**
- rotate images **34**

S

- self-timer
 - mode **10, 22**
 - selector and light **10**
 - take pictures with **21**
- Setup menu **49**
- Share button **13**
- Share menu
 - customize **38**
 - description **35**
 - e-mail service **38**
 - printing options **37**
- share pictures **35**
- shutdown, automatic **25**
- shutter button
 - delay **58**
 - description **10**
 - speed **76**
- sleep state **25, 28**
- software
 - bonus **17, 18**
 - cannot find camera **62**
 - install **17**
 - warranty **73**
- sounds
 - adjust **32, 51**
- speaker **10**
- specifications **75**
- Still mode **10**

SupportPack 70

T

- telephoto/wide-angle button
 - and lens **11**
- time and date
 - change **52**
 - set **16**
 - wrong one displayed **58**
- tripod mount **14**
- troubleshoot problems **55**
- turn on/off
 - auto audio recording **51**
 - camera does not **55**
 - camera power **10, 16**
 - camera sounds **51**
 - HP Instant Share **13**
 - Live View **13, 22**
 - menu **13, 30**
 - sleep state **26**

TV

- button, camera dock **45**
- configuration setting **53**
- connect camera to **43**
- connect dock to **44, 47**
- connector **11**

U

- unknown device **67**
- unloading images
 - camera to computer **41**
 - using camera dock **46**

USB

- change configuration **18, 52**
- connector, camera **11**
- connector, camera dock **44**

V

- video clips
 - play and adjust volume **32**
 - record **20**
 - recording indicator **22**
 - set for NTSC or PAL **53**
- Video mode **10, 20**
- video selector **10**
- view images in camera **29**
- viewfinder **11, 12**
- volume, adjust **32**

W

- warranty **70, 73**
- Web sites for HP **68**
- wide-angle button and lens **11, 13**
- Windows computer
 - bonus software **17**
 - install software **17**
- wrist strap, attach **14, 15**

Z

- zoom
 - buttons **13, 23**
 - lens **11**
 - specifications **76**
 - use optical or digital **23**

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