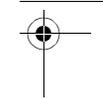
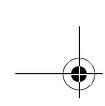
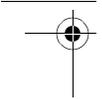
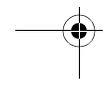
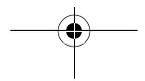
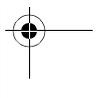
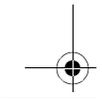
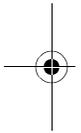




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hp photosmart 210 digital camera user's guide





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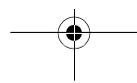
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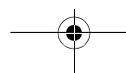
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Chapter 1: Getting Started

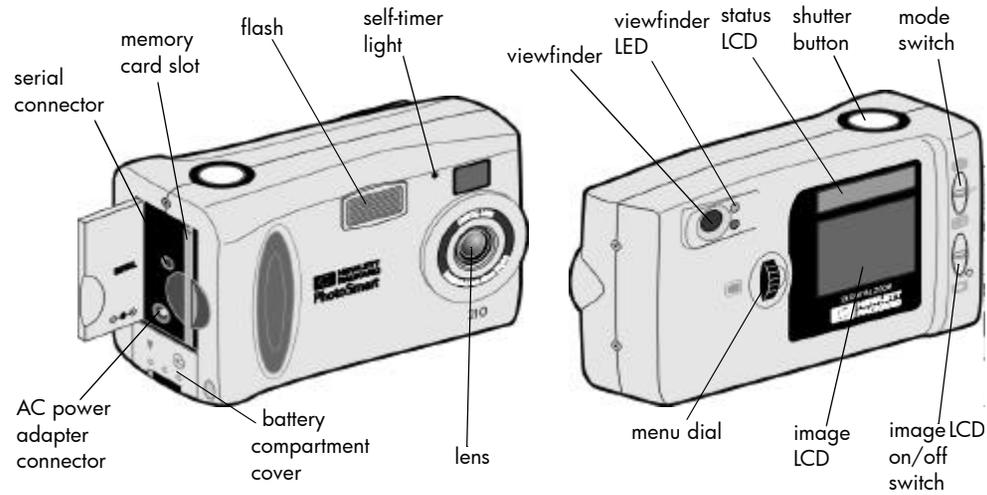
Product Overview

Your simple-to-use HP PhotoSmart 210 digital camera takes high-quality photos that you can print or share with family and friends on the Internet or via email. It comes with software for editing, storing, and printing your photos. Your camera includes the following features:

- 1.3 MP resolution
- Economical "digital film" (removable CompactFlash memory card)
- Automatic focus
- Point and shoot user interface
- Image LCD for previewing and reviewing photos
- Automatic exposure
- Integrated flash with red-eye reduction
- Self-timer
- Digital zoom

Camera Description

The following illustrations show the front, back, and sides of the HP PhotoSmart 210 digital camera.



Quick Setup

Setting up the HP PhotoSmart 210 digital camera is quick and easy—follow these steps and you'll be ready to take photos.

Step 1: Attach the Wrist Strap

1. Using the wrist strap included in the box with your camera, thread the short loop through the wrist strap attachment. You might need to use a paper clip to pull the end of the loop through.
2. Pull the strap through the loop, then pull the knot tight.

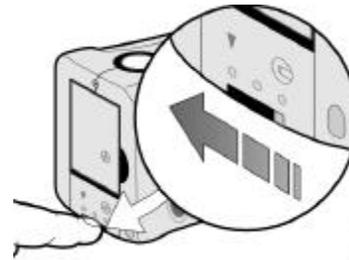
Note: Use the clip attached to the wrist strap to remove the memory card.



Step 2: Install the Batteries

1. Unlock and open the battery compartment.
2. Insert the 4 AA batteries (supplied), making sure the +/- electrodes match the indicators on the inside of the camera's battery compartment.

For details on changing batteries and recommended battery types, see "Chapter 7: Powering Your Camera" on page 41.



Step 3: Insert the memory card

1. Open the memory card compartment door.
2. Insert the memory card so that the side with pin-holes is placed into the camera first and the front of the card faces the image LCD.
3. Gently push the memory card all the way into the camera.
4. Close the memory card door.



Step 4: Choose the Camera Language

The Language menu automatically displays when the camera is turned on for the first time. For details on changing the language after the quick setup, see "Changing the Language" on page 24.

1. Slide the **mode** switch up to the camera icon to turn the camera on.
The Language menu displays.
2. Turn the **menu** dial to select a language, then press the **menu** dial.

Step 5: Set the Camera Date and Time

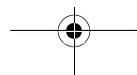
After setting the Language, the camera prompts you to enter the current date and time. For details on setting the date and time after the quick setup, see "Setting the Date and Time" on page 23.

1. Turn the **menu** dial to select the date or the time, then press the **menu** dial.
2. Change the month, date, year, hour and minute by turning the **menu** dial. Press the **menu** dial to move to a new field.



Note: You can also change the date and time format. Select the current date format located above the date to select the MM/DD/YYYY, DD/MM/YYYY or YYYY/MM/DD format. Select the current time format to set the time on a 12 or 24 hour clock.

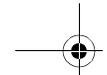
- 3. When you are finished, turn the **menu** dial to select **Exit**, then press the **menu** dial.



Chapter 2: Taking Photos

1. Slide the **mode** switch up to the camera icon to turn the camera on.
Note: After you turn the camera on, the Flash charges. Once the flash icon on the status LCD stops blinking, the camera is ready to take a photo.
2. Adjust the camera settings as needed.
 - You can change the photo quality, flash or focus setting or use the self-timer or digital zoom. See "Chapter 3: Adjusting the Camera Settings" on page 17 for details.
3. Frame your subject in the viewfinder.
4. Press the **shutter** button half way down to allow the camera to focus and adjust the exposure.
5. When you see the green light next to the viewfinder, press the **shutter** button all the way down to take the photo.

Your photo appears on the image LCD while it is saved to the CompactFlash memory card. If you want to immediately delete the photo while it is being saved, press the **menu** dial.



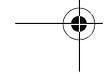
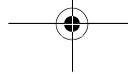
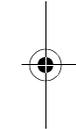
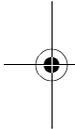
Using Instant Review

Your photo displays on the image LCD immediately after it is taken—this is called Instant Review. Instant Review is on by default. During Instant Review, you can choose to delete a photo before it saves to the memory card. If you do not wish to review your photos immediately after taking them, turn off Instant Review.

Note: For details on reviewing your photos after they are stored, see “Chapter 4: Reviewing Photos” on page 25.

To use Instant Review:

1. Take a photo.
The photo displays automatically on the image LCD for your review.
2. To delete the photo, press the **menu** dial.
If you do not delete the photo, the camera saves the photo to the memory card and turns off the image LCD.

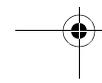
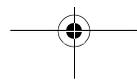
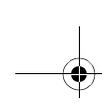
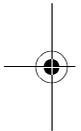




To turn Instant Review off:

1. Slide the **mode** switch up to the camera icon.
2. Press the **menu** dial to display the Capture menu on the image LCD.
3. Turn the **menu** dial to highlight the **Set Up** icon, then press the **menu** dial.
4. Turn the **menu** dial to select **Instant Review**, then press the **menu** dial.
5. Turn the **menu** dial to select **Off**, then press the **menu** dial.

Your photos will be stored to the CompactFlash memory card without being shown on the image LCD.





Using the Image LCD as a Viewfinder

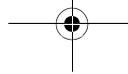


Instead of framing your photo through the viewfinder, you can use the image LCD. To optimally frame your photo, use the image LCD when you are taking photos using Macro or Digital Zoom. For more information on Macro, see "Using the Focus" on page 20. For more information on Digital Zoom, see "Using the Digital Zoom" on page 22.

To frame your photo using the image LCD:

1. Slide the **mode** switch up to the camera icon.
2. Slide the **image LCD** switch up to turn the image LCD on.
3. Point the camera at your subject and preview the photo on the image LCD.
4. Press the **shutter** button half way to allow the camera to focus and adjust the exposure. When you see the green light next to the viewfinder, you are ready to take your photo.
5. When the subject is optimally framed, press the **shutter** button all the way down to take the photo.

Note: For faster flash recharging time and extended battery life, use the viewfinder to frame your photos.



Tips for Taking the Best Photos

- Practice using the camera to get used to the timing before taking important photos. The camera takes about a second to focus when you press the **shutter** button half way down. After the camera has focused, be sure to push the **shutter** button all the way down until you hear the shutter click, indicating the photo has been taken.
- Avoid having the sun directly overhead or behind your subject. The best photos are taken with the sun to your back or side. If the sun is behind your subject, use the Fill Flash setting, see "Using the Flash" on page 19.
- Keep the subject within the flash range, 2 feet to 8 feet (.6m to 2.5m), if there is low light.
- Avoid taking flash photos in front of reflective objects like mirrors or glass to prevent hot spots in your photos.
- Clean the lens and LCD screens occasionally with a soft, lint-free cloth. Do not use cleaning solutions or chemically treated tissues.
- Although the HP PhotoSmart 210 digital camera has an electronic Auto Focus system, some conditions may cause the camera to focus improperly. Some examples are in the following table.

Subject	Examples
Black or very dark objects	Dark clothing
Objects that have no distinct or consistent form	Fountains, waterfalls, waves, smoke, flame, fireworks, a subject in mist or fog
Glossy and reflective surfaces	Glass, mirrors, automobiles
Multiple or flickering light sources	Neon signs, fluorescent lamps, television images, sun rays through trees
Rapidly moving objects	Baseballs, hummingbirds, race cars
Non-solid objects	Wire netting or fencing, latticework
Conditions involving low-light	Sunsets, candlelight

To take a photo of these types of subjects, focus on something near your subject and press the **shutter** button half way down. When the green light appears, re-aim your camera at your intended subject and press the **shutter** button all the way down. You can also try a different angle or change the lighting on your subject.

Chapter 3: Adjusting the Camera Settings

The HP PhotoSmart 210 digital camera has default settings that take great photos in most indoor and outdoor locations. To adjust the camera settings, use the Capture menu on the image LCD.

Changing the Photo Quality

Adjusting the photo quality setting changes the quality of the photo and determines how many photos can be stored on the CompactFlash memory card. To store the most photos, set the photo quality to basic. You can use different photo quality settings for different photos on the same memory card.

The current photo quality setting is indicated by an icon on the status LCD.

	Basic The most memory-efficient photo quality setting. Use this setting for photos you plan to send via email, place on the Internet, use for screen savers or wallpaper, or print up to 3x5 inches (7.6x12.7mm).
	Fine Produces high-quality photos and requires less memory than Super Fine. Use this setting for photos you plan to store on your disk or in a database, or print up to 5x7 inch (12.7x17.8mm) prints. This is the default setting.
	Super Fine Produces the highest-quality photos and uses the most memory per picture. Use this setting for taking photos you plan to enlarge.



Note: Because photo quality affects the number of photos that can be stored on a memory card, the number of available photos changes as you change the photo quality.

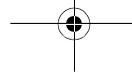


To change the photo quality:

1. Slide the **mode** switch up to the camera icon.
2. Press the **menu** dial to display the Capture menu on the image LCD.
3. Turn the **menu** dial to highlight the current **Photo Quality** icon, then press the **menu** dial.
4. Turn the **menu** dial to highlight a **Photo Quality** setting, then press the **menu** dial.



Note: The Photo Quality setting is retained until it is changed, even if the camera is turned off.



Using the Flash

When the camera is turned on, the flash setting defaults to **Auto Flash**. The flash setting is indicated by an icon on the status LCD:

	Auto Flash The camera determines the need for a flash based on lighting conditions.		Auto Flash with Red-eye reduction Minimizes the occurrence of red-eye in photos of people or animals. The flash goes off twice—once to condition the subject's eyes for the flash, and a second time to take the photo.
	Flash Off Set the flash to Off when you want to be sure the flash is not used.		Fill Flash Set the flash to Fill when the lighting for the entire photo is sufficient, but the lighting for the subject is not, as in a backlighting situation.

To adjust the flash:

1. Slide the **mode** switch up to the camera icon.
2. Press the **menu** dial to display the Capture menu on the image LCD.
3. Turn the **menu** dial to highlight the current **Flash** icon, then press the **menu** dial.
4. Turn the **menu** dial to highlight a **Flash** setting, then press the **menu** dial.

Using the Focus

The HP PhotoSmart 210 digital camera default setting is **Auto Focus**. You can change the camera setting to **Macro** for a subject that is very close to the camera. The focus setting is indicated by an icon on the status LCD.

AF	Auto Focus The camera will automatically focus on the subject in the center of the viewfinder from 2 feet (.6m) to infinity.
	Macro For use on subjects that are within 4 inches to 3 feet (10cm to 1m) of the camera lens.

To change the focus setting:

1. Slide the **mode** switch up to the camera icon.
2. Press the **menu** dial to display the Capture menu on the image LCD.
3. Turn the **menu** dial to highlight the current **Focus** icon, then press the **menu** dial.
4. Turn the **menu** dial to highlight the **Macro** or **Auto Focus** icon, then press the **menu** dial.

Note: The focus setting is retained until it is changed or the camera is turned off.

Using the Self-timer

Use the self-timer to photograph yourself or take a posed group photo. The default setting is **Self-timer OFF**. When on, the **Self-timer ON** icon shows on the status LCD.

To use the self-timer:

1. Slide the **mode** switch up to the camera icon.
2. Attach the camera to a tripod or place it on a firm surface at an appropriate distance and height from the subject.
3. Press the **menu** dial to display the Capture menu on the image LCD.
4. Turn the **menu** dial to highlight the **Self-timer OFF** icon, then press the **menu** dial.
5. Turn the **menu** dial to highlight the **Self-timer ON** icon, then press the **menu** dial.
6. Frame your subject in the viewfinder.
7. Press and release the **shutter** button. The self-timer light starts blinking. After 10 seconds, the photo is taken.

Note: The self-timer turns off after the photo is taken. To turn it off before you press the **shutter** button, select the **Self-timer OFF** icon in the Capture menu.

Using the Digital Zoom

The HP PhotoSmart 210 digital camera includes a digital zoom so you can make a subject appear closer. When the digital zoom is on, the image LCD turns on to help you frame your subject. When the digital zoom is on, photos are captured at 640x480 resolution.

To set the digital zoom:

1. Slide the **mode** switch up to the camera icon.
2. Press the **menu** dial to display the Capture menu on the image LCD.
3. Turn the **menu** dial to highlight the **Digital Zoom** icon, then press the **menu** dial.
4. Turn the **menu** dial to highlight the **Digital Zoom ON** icon, then press the **menu** dial.

To turn off the digital zoom:

1. Follow steps 1–3 above.
2. Turn the **menu** dial to highlight the **Digital Zoom OFF** icon, then press the **menu** dial.

Setting the Date and Time

You can change the date and time setting at any time through the Set Up menu. If the camera has not had battery power for more than five minutes, the Date & Time menu automatically displays the next time the camera is turned on.

To change the date and time:

1. Slide the **mode** switch up to the camera icon.
2. Press the **menu** dial to display the Capture menu on the image LCD.
3. Turn the **menu** dial to highlight the **Set Up** icon, then press the **menu** dial.
4. Turn the **menu** dial to select **Date & Time**, then press the **menu** dial.
5. Turn the **menu** dial to select the date or the time, then press the **menu** dial.

Note: You can change the way the date and time are displayed by selecting the date and time format located above the current date and time. The date can display in a MM/DD/YYYY, DD/MM/YYYY or YYYY/MM/DD format. The time can be set on a 12 or 24 hour clock.

6. Change the month, date, year, hour and minute by turning the **menu** dial. Press the **menu** dial to move to a new field.
7. Turn the **menu** dial to **Exit**, and press the **menu** dial to return to the Set Up menu.

Changing the Language

With the HP PhotoSmart 210 digital camera you can change the language of the camera menus.

To change the language:

1. Slide the **mode** switch up to the camera icon.
2. Press the **menu** dial to display the Capture menu on the image LCD.
3. Turn the **menu** dial to highlight the **Set Up** icon, then press the **menu** dial.
4. Turn the **menu** dial to select **Language** (third menu item), then press the **menu** dial.
5. Turn the **menu** dial to select a language, then press the **menu** dial.
6. Turn the **menu** dial to **Exit**, and press the **menu** dial to return to the Set Up menu.



Chapter 4: Reviewing Photos



After you have taken some photos and they are stored on the CompactFlash memory card, you can view them using the image LCD. While viewing your photos, you can delete, magnify, and lock your photos and change the welcome screen.

Tip: To preserve battery life, connect the included AC power adapter while using the image LCD to review your photos.

Viewing Your Photos

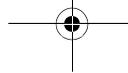


You can view photos one at a time or view multiple photos (thumbnails) on the image LCD.



To view photos one at a time:

1. Slide the **mode** switch down to the playback icon. The last photo taken or reviewed displays on the image LCD.
2. Turn the **menu** dial to scroll through your photos.





To view thumbnails of your photos:

1. Slide the **mode** switch down to the playback icon. The last photo taken or reviewed displays on the image LCD.
 2. Press the **menu** dial to access the Review menu.
 3. Turn the **menu** dial to highlight the **Thumbnails** icon, then press the **menu** dial. A set of thumbnail images displays.
- 
4. Turn the **menu** dial to scroll through the thumbnails. A frame marks the selected photo.
 5. Press the **menu** dial to exit thumbnail view and display the selected photo in full view.



Deleting Your Photos

While reviewing your photos, you can delete individual photos or all of the unlocked photos stored on the CompactFlash memory card. For details on locking and unlocking your photos, see "Locking and Unlocking Your Photos" on page 29.

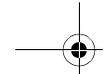


To delete photos from the memory card:

Caution: Once a photo is deleted from the CompactFlash memory card, it cannot be retrieved.

1. Slide the **mode** switch down to the playback icon. The last photo taken or reviewed displays on the image LCD.
2. Turn the **menu** dial to select a photo to delete.
3. Press the **menu** dial to access the Review menu.
4. Turn the **menu** dial to highlight the **Delete** icon, then press the **menu** dial.
5. Turn the **menu** dial to select a delete option, then press the **menu** dial.
 - **Current** deletes only the photo that is being displayed.
 - **All** deletes all unlocked photos on the CompactFlash memory card.
 - **Exit** returns to Review mode without deleting any photos.
6. If you selected **All**, select **Yes** to confirm.



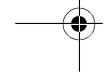
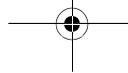


Magnifying Your Photos

You can enlarge an image to see more detail while viewing it on the image LCD.

To magnify a photo:

1. Slide the **mode** switch down to the playback icon. The last photo taken or reviewed displays on the image LCD.
2. Turn the **menu** dial to select the photo to magnify.
3. Press the **menu** dial to access the Review menu.
4. Turn the **menu** dial to highlight the **Magnify** icon, then press the **menu** dial.
The center of the photo is displayed at a magnification of 2X.
5. Turn the **menu** dial to scroll the image vertically. To scroll the image horizontally, press the **menu** dial and select **Scroll Left/Right**.
6. To return to full view, press the **menu** dial and select **Zoom Out**.



Locking and Unlocking Your Photos

You can prevent photos from being accidentally deleted by locking them.

Note: To delete all photos off a memory card, including locked photos, format your CompactFlash memory card. See "Formatting a Memory Card" on page 40 for more information.

To lock or unlock a photo:

1. Slide the **mode** dial down to the playback icon. The last photo taken or reviewed displays on the image LCD.
2. Turn the **menu** dial to select a photo to lock or unlock.
3. Press the **menu** dial to access the Review menu.
4. Turn the **menu** dial to highlight the **Lock/Unlock** icon, then press the **menu** dial.

5. Turn the menu dial to select a lock option:
 - **Lock/Unlock Current** locks or unlocks the current photo.
 - **Lock All** locks all photos on the CompactFlash memory card.
 - **Unlock All** unlocks all photos on the CompactFlash memory card.
6. If you selected **Lock All** or **Unlock All**, select **Yes** to confirm.

Personalizing Your Welcome Screen

The “Welcome Screen” is the image that appears when you turn on your camera. You can change it to a photo of your choice.

To personalize your welcome screen:

1. Slide the **mode** switch down to the playback icon. The last photo taken or reviewed displays on the image LCD.
2. Turn the **menu** dial to select the photo to be used as the welcome screen.
3. Press the **menu** dial to access the Review menu.
4. Turn the **menu** dial to highlight the **Welcome Screen** icon, then press the **menu** dial.
5. From the menu, select **Use This Photo**.



Chapter 5: Sharing and Printing Photos

Once you have taken some photos, you can download them to your computer to print, send via email or use for greeting cards, calendars and other projects.

System Requirements

Processor	166 MHz Pentium or equivalent
Memory (RAM)	32 MB RAM or more
Free hard disk space	150 MB
Video display	800x600, 16-bit or higher
CD-ROM	4x or better
Operating system	Windows 95, Windows 98, Windows 2000 or Windows Me
Port	Serial

Installing the Software

1. Insert the PhotoImpression CD into your computer's CD-ROM drive. The installation window automatically appears.

Note: If the installation window doesn't appear, use Windows Explorer to locate your CD-ROM drive, then double-click the file **setup.exe**.

2. Follow the instructions on the screen to install the software.

Connecting the Camera to Your PC

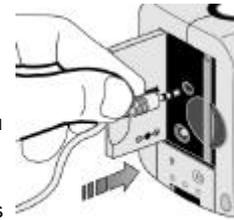
Tip: To preserve battery life, connect the AC power adapter while downloading photos to your PC. For more information on AC adapters see "Using an AC Power Adapter (recommended)" on page 44.

1. Connect the camera to your computer with the cable provided.
 - Plug the large end of the PC connection cable into the PC serial port

Note: The camera cable connects to a 9-pin serial port. If you don't have a 9-pin serial port available, you can use a 9-25 pin adapter (available at most computer supply stores) to connect to a 25-pin serial port. See your computer user's guide or contact your computer manufacturer if you have problems locating an available serial port.

- Plug the small end of the cable into the camera.
2. Download your photos. See the following page for details.

Tip: If you have a computer (such as a laptop) that has a PCMCIA slot, you can read photos directly from the CompactFlash memory card using a PCMCIA adapter. See the adapter manufacturer's instructions for details. When you use a PCMCIA adapter, the PhotoImpression software reads the memory card as an additional disk.



Downloading Photos to Your PC

1. Connect the camera to the computer and turn the camera on.
2. Click on the PhotoImpression software icon on your desktop to start the PhotoImpression software.
3. Click the flashing **Acquire** button.
4. Select an album to put your photos in. You can select the default album, create a new album by typing a new name, or select an existing album.

Note: The software will save your photos to the following location:

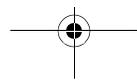
c:\My Documents\My Pictures*"album name"*\

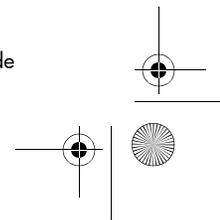
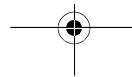
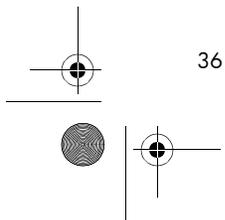
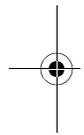
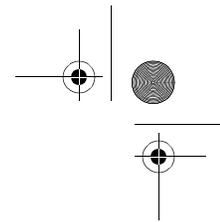
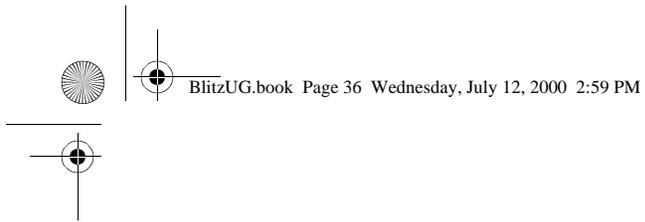
5. Select HP PhotoSmart 210/215 as your source. Thumbnails from the camera display in the dialog box.
Note: Photos are not saved to the hard drive until after the next step.
6. Download the photos to your computer:
 - To get every photo from the camera, click **Get All Photos From Camera**.
 - To get selected photos from the camera, select the photos to transfer and click **Get Selected Photos From Camera**.



Note: To delete all photos from the CompactFlash memory card after they are saved on your computer, select **Delete All Photos from Camera** after you download. The photos will be deleted off the CompactFlash memory card and are not recoverable once deleted.

7. Close the dialog box.
The photos appear in the Photo Album.





Chapter 6: CompactFlash Memory Card

The "film" used in the HP PhotoSmart 210 digital camera is a removable, reusable CompactFlash memory card. Once a photo is taken, it is stored on the memory card until you delete it or the card is formatted.

Use only CompactFlash Association (CFA) certified type I memory cards with the HP PhotoSmart 210 digital camera. These cards are manufactured by several vendors and are available in a variety of capacities. Hewlett-Packard does not support the use of non-certified memory cards.



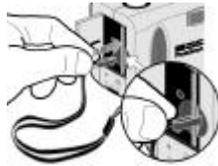
For information on supported CompactFlash memory cards, go to the HP PhotoSmart Web site, www.hp.com/photosmart, and click "Technical Support". To purchase a new CompactFlash memory card, go to www.hpshopping.com (selected countries) or your local computer store.

Installing and Removing Memory Cards

Before you install a new CompactFlash memory card, make sure it is compatible with the HP PhotoSmart 210 digital camera.

To remove a memory card:

Caution: Before you remove a memory card from the camera, turn the camera off and wait for the status LCD to go blank. If the camera is saving a photo, wait until the photo has been saved before removing the CompactFlash memory card.



1. Attach the clip on the wrist strap to the memory card. Check that the clip is gripping the card.
2. Pull with the clip to remove the card.

To install a new memory card:

1. Open the memory card compartment door.
2. If there is a card already in the camera, remove the existing card.

3. Insert the new memory card so the side with pin-holes is placed into the camera first and the front of the card faces the image LCD.
4. Gently push the memory card all the way into the camera.
5. Close the memory card door.

To make sure the memory card is correctly installed:

- Slide the **mode** switch up to the camera icon to turn the camera on.



If the CompactFlash Memory Card icon on the status LCD is blinking, there is a problem with the memory card. See "Chapter 9: Troubleshooting and Assistance" on page 51.

Determining if a Memory Card is Full

A CompactFlash memory card is full when the camera's status LCD indicates there are zero photos available to be taken and the CompactFlash memory card icon blinks.

The photo quality setting determines the number of photos the memory card can hold. To increase the amount of photos you can store on the memory card, reduce the photo quality setting. See "Changing the Photo Quality" on page 17.

Formatting a Memory Card

Most CompactFlash memory cards are already formatted when you buy them. However, if you buy a memory card that has not been formatted, you need to format it before you can use it in the camera. If you insert a new, formatted card in the camera and it doesn't work, try re-formatting it—it may have been formatted improperly. Also re-format cards that you previously used in a different camera, to optimize them for use with the HP PhotoSmart 210 digital camera.

Caution: Formatting erases all photos or files from the card, including those that are locked.

To format a memory card:

1. Slide the **mode** switch up to the camera icon to turn the camera on.
2. Press the **menu** dial to display the Capture menu.
3. Turn the **menu** dial to highlight the **Set Up** icon, then press the **menu** dial.
4. Turn the **menu** dial to select **Reformat CF**, then press the **menu** dial.

Note: To cancel the formatting, select **No**, then press the **menu** dial.

5. Turn the **menu** dial to select **Yes**, then press the **menu** dial.

Chapter 7: Powering Your Camera

The HP PhotoSmart 210 digital camera can be powered by batteries or the included AC power adapter. For convenience, use the batteries when you are taking photos. To preserve battery power, use the AC adapter when you are reviewing photos on the image LCD for an extended period of time, or when you are transferring photos from the camera to your computer.

Determining if the Batteries Need to be Changed

The battery icon on the camera's status LCD indicates the battery level. There are three levels of battery charge: Full, Partially-charged, and Low/Empty. If the battery icon shows that the battery is Low/Empty, it is time to replace the batteries. A blinking Low/Empty battery appears when the battery is too low to take a picture.



Full

60–100% photo taking power



Partially-charged

10–60% photo taking power



Low/Empty

0–10% photo taking power

Battery Life

Caution: Do not use rechargeable batteries with your HP PhotoSmart 210 digital camera.

The life of the batteries depends on several factors. These include:

- The type of batteries you use. For longer battery life, use batteries that are designed for use in digital cameras and other electronic devices.
- How often you use the image LCD
- How often you use the flash
- The number of photos you take
- Whether you use an AC adapter for power when the camera is connected to the computer
- Temperature conditions (colder temperatures result in shorter battery life when the camera is operating)

To preserve battery life:

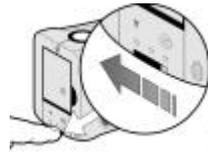
- Use the AC power adapter that came with your HP PhotoSmart 210 digital camera.
- Turn off the digital camera between photos.

- Limit your use of the image LCD, except when using an HP approved AC power adapter.

Replacing the Batteries

To insert new batteries:

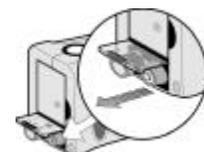
1. Make sure the **mode** switch is in the **Off** position.
2. Open the battery compartment.



- Unlock the battery compartment by sliding the lever to the unlock icon.



- To open the battery compartment, slide the cover down and lift it up.



- Remove all of the old batteries.

Caution: Replace all four batteries at the same time. Do not replace them individually. Always follow instructions on the battery package when handling batteries.

3. Insert four new batteries, making sure the +/- electrodes are facing the proper direction (see the diagram on the inside of the battery compartment).
4. Replace the battery compartment cover by pressing it down over the batteries while sliding it up.
5. Lock the battery compartment by sliding the lever to the lock icon.

Using an AC Power Adapter (recommended)

To extend the life of your batteries, use the AC power adapter as your power source when you connect your camera to a computer or when using the image LCD for an extended period of time. Only use the included AC power adapter with the HP PhotoSmart 210 digital camera.

Caution: Use of any other adapter voids your warranty and may damage your camera.

Additional AC power adapters are available from www.hpshopping.com (selected countries). For AC adapter specifications, refer to HP's PhotoSmart Web site at www.hp.com/photosmart.

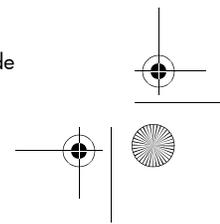
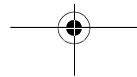
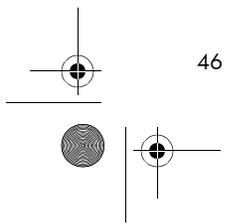
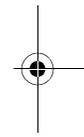
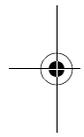
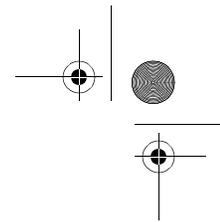
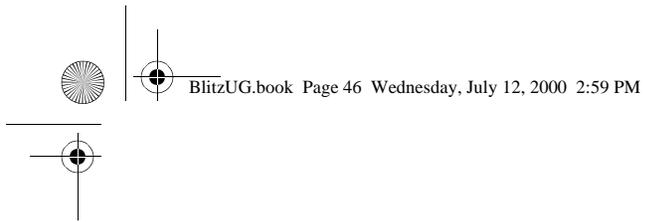
Note: An AC power adapter provides power to the camera. It does not recharge the batteries.

To connect an AC power adapter:

1. Plug the adapter into a power source (such as a wall outlet or power strip).
2. Connect the round end of the adapter cable to the camera.



Note: If you want to use battery power, disconnect the AC power adapter from the power source and the camera. If the AC power adapter is connected to the camera, even if it is not connected to a power source, the camera cannot draw battery power.





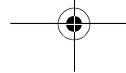
Chapter 8: Care, Maintenance and Safety



For years of trouble-free use, follow these simple tips to care for your camera and camera accessories.

Camera

- To avoid the risk of electric shock, do not disassemble the camera or expose the camera to excessive moisture. Disassembling any part of the camera voids your warranty.
- Do not leave the camera in the sun or in a very warm location (glove compartment, trunk, etc.) for long periods.
- The camera is designed to operate within the temperature range of 0 to 40 degrees Celsius (32 to 104 degrees Fahrenheit). Operation of the camera outside the temperature range can result in poor quality photos or camera malfunctions.
- If you move the camera from a cold to a warm location or from a warm to cold location, always allow the camera several minutes to adjust to the current ambient temperature before you use it.



AC Power Adapter

- Use the included AC power adapter with the HP PhotoSmart 210 digital camera.

Caution: Use of any other adapter voids your warranty and may damage your camera.

Batteries

- Before installing batteries, turn the camera off.
- Replace all the batteries at the same time. Do not replace the batteries individually.
- Only use batteries that are in good condition. Batteries that show signs of leakage, corrosion or swelling should not be installed in the camera.

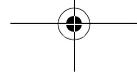
Memory Cards

- To avoid erasing data from a memory card or damaging it, do not expose memory cards to heat, moisture, or static electricity.
- Before removing or installing a memory card, turn the camera off.



Cleaning the Camera and Lens

- Use a dry, soft, lint-free cloth, to gently wipe fingerprints and dust from the lens, viewfinder and status and image LCDs.
- Wipe the outside surfaces of the camera with a clean, dry cloth. Never use a rough cloth or abrasive cleaners that can scratch the camera.



Camera Specifications

Resolution	1.3 MegaPixel (Super Fine and Fine photo quality settings: 1200x1600 pixels; Basic photo quality setting: 640x480 pixels)
Memory Card	CompactFlash Type 1; all storage sizes supported (4MB card supplied)
Lens System	f/2.8; 6.68mm (43.4mm equivalent)
Zoom	2x digital zoom
Aperature	f/2.8-f/8
Shutter speed	1/750 to 1/3 seconds
Focus	Normal: 2 feet to infinity (60cm to infinity) Macro: 4 inches to 3 feet (10cm to 1m)
Sensitivity	ISO 100
Self-timer	10 second delay
Flash	Built-in flash with range of 2 to 8 feet (.6m to 2.5m) Modes: Auto, Auto with Red-eye reduction, On and Off
LCD	1.8 inch color LCD with 61,600 pixels
Power	4 AA batteries (included) or AC power adapter (included)
Interfaces	Serial to PC, standard tripod mount

Chapter 9: Troubleshooting and Assistance

If you have a problem using your HP PhotoSmart 210 digital camera, first review this section. If you cannot find the solution to your problem here, see "Getting Assistance" on page 58.

Problems and Solutions

Problem	Possible Cause	Solution
The camera won't turn on.	The camera powered off.	Slide the mode switch to the OFF position and then turn the camera back on.
	The batteries are low.	Replace the batteries.
	The AC power adapter is connected to the camera, but not to a power source.	Plug the AC power adapter into the wall. When you have an AC adapter connected to the camera, the camera cannot draw battery power even if the adapter is not connected to a power source. If you want to use battery power, disconnect the AC adapter.
	The camera needs to be reset.	Turn the camera off and then on again. Remove the batteries and reinstall them. Or, if you are using an AC power adapter, unplug the adapter from the camera and then plug it in again.

Problem	Possible Cause	Solution
When I press the Shutter button, nothing happens.	The flash is recharging.	Wait until the flash icon on the status LCD stops flashing before taking another photo.
	You are in Review mode	Slide the mode switch up to the camera icon.
	The camera is still saving the last photo you took.	Wait until the photo is saved to the memory card, then take a photo.
	The memory card is full.	Install a new memory card or make room on the current card by deleting or downloading photos, or selecting a lower photo quality setting.
	The memory card is damaged or is not formatted.	Format the memory card or replace it with a new, formatted card.
	The camera is connected to a computer.	To take a photo, disconnect the camera from the computer.
The camera powered off.	Slide the mode switch down to the OFF position and then back up to the camera icon.	

Problem	Possible Cause	Solution
When I press the Shutter button half way down, a green blinking light appears next to the viewfinder.	The flash is turned off and there is not enough light.	Use the flash.
The date and/or time is wrong.	The batteries were dead or removed from the camera for more than five minutes.	Reset the date and time. To avoid losing date and time information, replace low batteries promptly.
When I connect the camera to my computer, the software says it can't find the camera.	The camera is not connected to the computer properly. The camera is turned off. The batteries are low. A conflicting software application may be open.	Make sure the serial cable is firmly connected at both ends and the cable is connected directly to a port. The connection will not work if the camera is connected to a port data switch or a sharing device. Slide the mode switch down to the playback icon to turn the camera on. Replace the batteries or use an AC power adapter. Exit from all programs while you are using the ArcSoft PhotoImpression software.

Problem	Possible Cause	Solution
	There may be a serial port conflict.	Check the windows device manager for device conflicts or errors. Go to www.hp.com/photosmart and click on "Technical Support" for more information.
I can't delete a photo.	The photo is locked.	Unlock the photo.
My photo turned out blurry.	The subject moved while you were taking the photo. You moved the camera while you were taking the photo. Your subject was too close to the camera lens.	For sharp focus, if possible, ask the subject to stay still. Hold the camera steady as you press the shutter button. The camera's Auto Focus range is 2 feet (60cm) from the front of the lens to infinity. For a clear, sharp image, make sure your subject is not closer than 2 feet (60cm) or use the Macro mode.

Problem	Possible Cause	Solution
	Your subject was not in the center of the frame.	The camera focuses on the object in the center of the frame. For best results, compose your photo with your subject in the center of the frame. Point the camera at a subject in the center of the photo and press the shutter button half way down until the green light appears. Re-aim your camera at your intended subject and press the shutter button all the way down.
My photo turned out too dark.	There was not enough light. The flash was on, but the subject was too far away.	Wait for natural lighting conditions to improve or use the flash to illuminate your subject. The flash can only illuminate objects that are within 2–8ft. (.6–2.5 m) of the camera. Make sure your subject is within range of the flash when you take the photo.

Problem	Possible Cause	Solution
	The subject in the center of the photo was very light.	<p>The camera sets the exposure based on the object in the center of the frame. If the surrounding area is darker than the subject, the photo will be underexposed.</p> <p>Point the camera at a dark subject in the center of the photo and press the shutter button half way down until the green light appears. Re-aim your camera at your intended subject and press the shutter button all the way down.</p>
My photo turned out too bright.	<p>The flash provided too much light.</p> <p>You were too close to the subject.</p> <p>There was too much light provided by a natural or artificial source other than the flash.</p>	<p>Change the flash setting to Auto or Off.</p> <p>Set the flash to Off and take the photo again.</p> <p>Try taking the photo from a different angle. Avoid pointing the camera directly toward a bright light or reflective surface on a sunny day. Use the Fill Flash setting if there is light behind your subject.</p>

Problem	Possible Cause	Solution
The number of photos remaining did not change after I took my photo.	The number is an approximation of how many photos with that photo quality can be stored.	This is normal camera behavior. To verify that your photo was saved, review your photos. If instant review is off, turn it on.
The camera does not recognize the CompactFlash memory card.	The card is inserted incorrectly.	Take the memory card out and reinsert it so the side with the pin holes is placed into the camera first and the front of the card faces the image LCD.
	The card is not inserted all the way.	Push the memory card in until it is completely inserted.
	The card is not certified by the CompactFlash Association.	Use a type I CFA certified card. For information about supported CompactFlash memory cards, see the HP PhotoSmart Web site at: www.hp.com/photosmart .

Getting Assistance

HP Customer Care

HP products set the standard for quality and reliability. You've made an excellent choice. Should you need help, however, HP Customer Care service and support can always provide expert advice on using your HP product or help solve a problem you're having. Whether online or by phone, you'll find the support you need—fast.



Be sure to register your HP product to get the full benefits of HP Customer Care. The brief information you provide helps HP Customer Care respond to you faster with more personalized, proactive support options.

HP Customer Care E-Support Has Answers Anytime, Anywhere: www.hp.com/go/support

HP Customer Care E-Support offers online support for as long as you own your HP product. Get instant, interactive access to everything from helpful printing tips to the latest product and software updates—24 hours a day, seven days a week. You'll find the answers that get you back on track—whenever you need them.

Whatever the HP product, the latest information is always on hand. After you register your HP product, HP Customer Care E-Support's newsletters and tips keep you up-to-date so you can prevent problems from happening. FAQs (Frequently Asked Questions) cover most major topics, including the latest troubleshooting advice.

Downloading the latest software is fast and easy, too. You'll find all the updates, upgrades and driver downloads that help you avoid incompatibilities.

One-to-one email gives product owners direct answers to non-urgent questions from an HP Customer Care service technician. To send an email, either select your HP product at the HP Customer Care E-Support home page and follow the links, or go to <http://contact.external.hp.com/email/> and select your HP product.

Phone Support Always At Hand During Your Warranty Period

HP Customer Care provides fast, responsive phone support at (208) 376 3686. Call 6 days a week—6 am-10 pm MST weekdays; 9 am-4 pm MST Saturdays.

Within one year of purchase, HP provides telephone support free of charge. Before placing a call for help, please follow this checklist:

- Consult your User's Guide for installation and troubleshooting tips
- Check HP Customer Care E-Support for information and help



- Call an HP service technician. Before calling, you should be near your computer and camera and have the following information ready:

Model No.: 210 digital camera

Serial No.: _____

Purchase Date: _____

After Your Warranty Period

Fee phone support is always available. For brief questions in the U.S., call (900) 555-1500. The charge is \$2.50 per minute and begins when you connect with a service technician (prices are subject to change without notice.) For calls from Canada, or for calls in the U.S. that you anticipate might be longer than ten minutes, call (800) 999-1148. The fee is \$25 US per call, charged to your Visa or MasterCard.

Choose the Most Convenient Service Solution

During the Warranty

With your one-year warranty, you can always get convenient service solutions—from HP or a local authorized service provider. You choose what works best for you

If your HP product is ever in need of repair, simply call the HP Customer Care Center at (208) 376 3686. A trained HP service technician will diagnose the problem and coordinate the process for you—without making you wait or do a lot of work to get





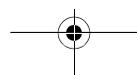
you back up and running. They'll direct you to the best solution, whether it's an authorized service provider well-trained in repair and replacement procedures, or an HP facility strategically located to ensure timely service.

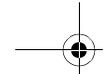
HP Customer Care makes it easy to replace your HP product. HP will ship a permanent replacement unit directly to you. Simply return the defective product in the same box within three days.

After the Warranty: Meet Your Needs with Upgrade Options

Upgrade your warranty by choosing service options that offer protection around-the-clock (service levels and availability vary by product, country or region). Extend or enhance your service coverage and get peace of mind that expert help is there if you need it.

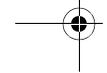
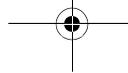
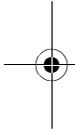
To extend coverage beyond the limited warranty period, call your reseller or HP directly and ask about our HP service agreements. In the U.S., call (800) 446-0522; in Canada, call (800) 268-1221. For HP service agreements outside the U.S. and Canada, contact your local HP sales office. To find HP resellers in the U.S., visit our service locator at www.hp.com/service_locator/. Worldwide HP office locations can be found at www.hp.com/abouthp/world.html.





ArcSoft Software Support

For help with your ArcSoft PhotoImpression Software, visit the ArcSoft Web site at www.arcsoft.com. The technical support section of the Web site offers an online manual for the software, answers to commonly asked questions, troubleshooting tips, and ideas. You can also email a technician for assistance at support@arcsoft.com or call 510-440-9901 (Monday through Friday, 8:30 a.m. to 5:30 p.m, Pacific time).



Appendix A: Reference

Checking the Camera's Status

The status LCD is located above the image LCD on the back of the camera. In Capture and Review modes the status LCD displays information about the camera, the settings that are selected, and any problems.



The following messages may appear on the status LCD:

Icon	Status	Meaning
	Blinking CF Card	The card is full, corrupt, missing or being written to.
	Basic Photo Quality	Indicates the current photo quality setting is set at Basic. 640x480 resolution.
	Fine Photo Quality	Indicates the current photo quality setting is set at Fine. 1280x960 resolution, medium compression.
	Super Fine Photo Quality	Indicates the current photo quality setting is set at Super Fine. 1280x960 resolution, low compression.
	Full Battery	The battery is new.
	Partially-charged Battery	The battery has been used.

Icon	Status	Meaning
	Low/Empty Battery	The battery needs to be replaced.
	Photos Remaining	Displays the approximate number of photos available to be taken at the current photo quality level. The number will not always change after a photo is taken.
	PC Connect	Indicates the camera is connected to a PC.
	Auto Flash	Indicates the Flash is set to Auto. The Auto Flash icon blinks when the flash is charging.
	Auto Flash with Red-eye Reduction	Indicates the Flash is set to Auto Flash with red-eye reduction.

Icon	Status	Meaning
	Flash OFF	Indicates the Flash is set to Off.
	Fill Flash	Indicates the Flash is set to Fill. Set the flash to Fill when the lighting for the entire photo is sufficient, but the lighting for the subject is not, as in a backlighting situation.
AF	Auto Focus	Indicates the current Focus is set to Auto. Focus range is 2 feet (.6m) to infinity.
	Macro	Indicates the current Focus is set to Macro. Macro range is 4 inches to 3 feet (10cm to 1m).
	Self-timer ON	Indicates the Self-Timer is on.
	Self-timer OFF	Indicates the Self-Timer is off.

Capture Mode Menu

To get to the Capture menu, slide the **mode** switch up to the camera icon and press the **menu** dial. In Capture mode, you can change the settings for taking photos. For more information about changing settings, see “Chapter 3: Adjusting the Camera Settings” on page 17. The following are the menu items available in the Capture menu:

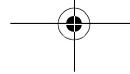




Playback Mode Menu



To get to the Playback menu, slide the **mode** switch down to the playback icon. In Playback mode, you can delete, review, magnify and lock your photos, set your welcome screen and change the camera's setup. For more information about reviewing your photos, see "Chapter 4: Reviewing Photos" on page 25. The following are the menu items available in the playback menu:



Appendix B: Regulatory and Warranty Information

Regulatory Notices

U.S.A.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities.

Canada

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Class B respecte toutes les exigences du Règlement sur le matériel brouiller du Canada.

Hewlett-Packard Limited Warranty Statement

HP Product	Duration of Limited Warranty
HP PhotoSmart digital camera	1 year
CompactFlash memory card	1 year
ArcSoft PhotoImpression Software	90 days
Accessories	90 days

A. Extent of Limited Warranty

1. Hewlett-Packard (HP) warrants to the end-user customer that the HP products specified above are free of defects in material and workmanship for the duration specified above, which duration begins on the date of purchase by the customer.
2. For software products, HP's limited warranty applies only to a failure to execute programming instructions. HP does not warrant that the operation of any product are uninterrupted or error free.
3. HP's limited warranty covers only those defects which arise as a result of normal use of the product, and does not cover any other problems, including those which arise as a result of:
 - a. Improper maintenance or modification;
 - b. Software, media, parts, or supplies not provided or supported by HP; or
 - c. Operation outside the product's specifications.
4. For HP printer products, the use of a non-HP ink cartridge or a refilled ink cartridge does not affect

either the warranty to the customer or any HP support contract with the customer. However, if printer failure or damage is attributable to the use of a non-HP or refilled ink cartridge, HP will charge its standard time and materials charges to service the printer for the particular failure or damage.

5. If HP receives, during the applicable warranty period, notice of a defect in any product which is covered by HP's warranty, HP shall either repair or replace the defective product, at HP's option.
6. If HP is unable to repair or replace, as applicable, a defective product which is covered by HP's warranty, HP shall, within a reasonable time after being notified of the defect, refund the purchase price for the product.
7. HP shall have no obligation to repair, replace, or refund until the customer returns the defective product to HP.
8. Any replacement product may be either new or like-new, provided that it has functionality at least equal to that of the product being replaced.
9. HP products may contain remanufactured parts, components, or materials equivalent to new in performance.
10. HP's limited warranty is valid in any country where the covered HP product is distributed by HP. Contracts for additional warranty services may also be available from any authorized HP service facility in countries where the product is distributed by HP or by an authorized importer.

B. Limitations of Warranty

1. TO THE EXTENT ALLOWED BY LOCAL LAW, NEITHER HP NOR ITS THIRD PARTY SUPPLIERS MAKE ANY OTHER WARRANTY OR CONDITION OF ANY KIND, WHETHER EXPRESS OR IMPLIED, WITH RESPECT TO THE HP PRODUCTS, AND SPECIFICALLY DISCLAIM THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY, AND FITNESS FOR A

PARTICULAR PURPOSE.

C. Limitations of Liability

1. To the extent allowed by local law, the remedies provided in this Warranty Statement are the customer's sole and exclusive remedies.
2. TO THE EXTENT ALLOWED BY LOCAL LAW, EXCEPT FOR THE OBLIGATIONS SPECIFICALLY SET FORTH IN THIS WARRANTY STATEMENT, IN NO EVENT SHALL HP OR ITS THIRD PARTY SUPPLIERS BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER BASED ON CONTRACT, TORT, OR ANY OTHER LEGAL THEORY AND WHETHER ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

D. Local Law

1. This Warranty Statement gives the customer specific legal rights. The customer may also have other rights which vary from state to state in the United States, from province to province in Canada, and from country to country elsewhere in the world.
2. To the extent that this Warranty Statement is inconsistent with local law, this Warranty Statement shall be deemed modified to be consistent with such local law. Under such local law, certain disclaimers and limitations of this Warranty Statement may not apply to the customer. For example, some states in the United States, as well as some governments outside the United States (including provinces in Canada), may:
 - a. Preclude the disclaimers and limitations in this Warranty Statement from limiting the statutory rights of a consumer (e.g. the United Kingdom);
 - b. Otherwise restrict the ability of a manufacturer to enforce such disclaimers or limitations; or

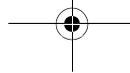


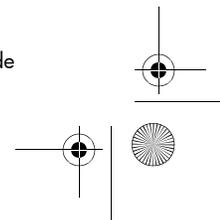
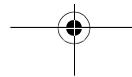
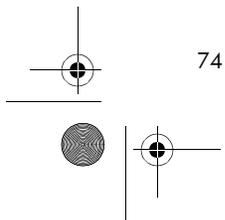
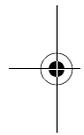
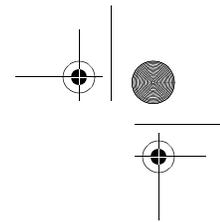
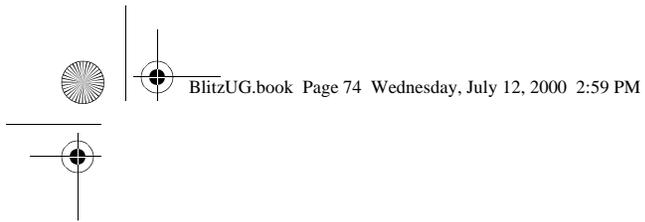
- c. Grant the customer additional warranty rights, specify the duration of implied warranties which the manufacturer cannot disclaim, or not allow limitations on the duration of implied warranties.
3. FOR CONSUMER TRANSACTIONS IN AUSTRALIA AND NEW ZEALAND, THE TERMS IN THIS WARRANTY STATEMENT, EXCEPT TO THE EXTENT LAWFULLY PERMITTED, DO NOT EXCLUDE, RESTRICT, OR MODIFY, AND ARE IN ADDITION TO, THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE SALE OF THE HP PRODUCTS TO SUCH CUSTOMERS.

Hewlett-Packard Year 2000 Warranty for Consumer Products Distributed Through Authorized Resellers



Subject to all of the terms and limitations of the HP Limited Warranty Statement provided with this HP Product, HP warrants that this HP Product will be able to accurately process date data (including, but not limited to, calculating, comparing, and sequencing) from, into, and between the twentieth and twenty-first centuries, and the years 1999 and 2000, including leap year calculations, when used in accordance with the Product documentation provided by HP (including any instructions for installing patches or upgrades), provided that all other products (e.g. hardware, software, firmware) used in combination with such HP Product(s) properly exchange date data with it. The duration of the Year 2000 warranty extends through January 31, 2001.





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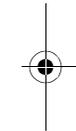
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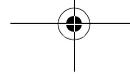
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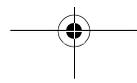
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