

Ultra-slim digital camera

PT44434
SIC4434

User guide



PHILIPS

Table of Content

1	Brief Description	2
	● Package Contents	2
2	Before Using Your Camera	2
	● Holding the camera correctly	2
	● Test photos	2
	● Identifying the parts	3
3	Using Your Digital Camera.....	4
	● Charging the battery.....	4
	● Lithium-polymer battery tips:	4
	● Turning on the camera	5
	● Turning on the LCD.....	5
	● Understanding LCD icons.....	5
	● Mode selection.....	5
	● Picture-taking mode.....	6
	● Picture-taking mode menus.....	6
	● Picture-taking mode with timer on	7
	● Playback mode	8
	● Playback mode menus.....	8
	● USB mode	8
	● USB mode activity	8
	● Using Secure Digital (SD) memory cards	9
	● Changing resolution.....	9
	● Turning sound on/off	10
	● Taking pictures.....	10
	● About Autobrite® technology	10
	● Low light lock-out.....	10
	● Deleting an image	11
	● Formatting internal flash memory or SD card	11
4	Installing the Software.....	12
	● System requirements	12
	● PhotoImpress5.0.....	13
5	Connecting the Digital Camera to Your PC	14
6	Troubleshooting (Digital Camera).....	17
7	Specifications (Digital Camera)	19
8	Safety Notes.....	20
9	Trademarks	23

1 Brief Description

Your digital camera with color LCD display is roughly the size of a credit card - only 13 mm thick. The camera's portability and convenience are enabled by its "worry free" rechargeable battery, simple user interface, and easy image download when you connect the camera to a PC with the supplied USB cable.

Package Contents

Be sure to check that the package contains all the items listed below:

Camera	USB cable	User Manual
CD-ROM	Wrist Strap	Pouch

If any items are missing, please contact the store where you purchased the camera. Keep the camera packaging in a safe place as it will be needed if you return the camera for repairs, etc.

2 Before Using Your Camera

*To ensure that you use your camera correctly, read the **Safety Notes** in section 8 and the rest of this user's manual carefully.*

Holding the camera correctly

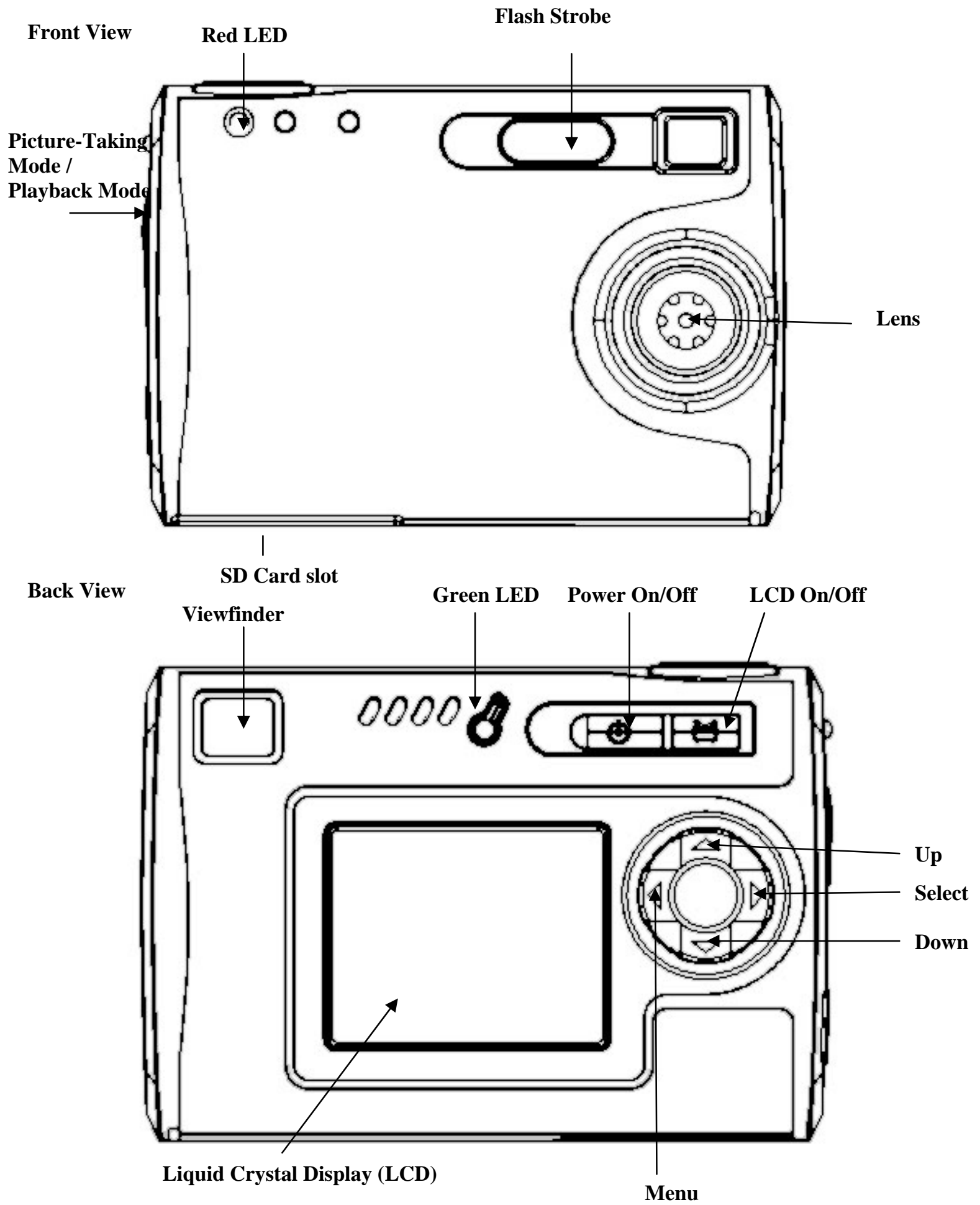
Due to the extremely compact size and light weight of the camera, it is critical that you hold the camera securely in order to avoid "camera shake". The camera is particularly sensitive to "shake" in low light environments. Taking a picture in low light requires a longer exposure time for the image to be captured and any movement during this time might cause a blurred image.

When taking a photo in low light the flash may trigger. Before this happens, try to avoid gripping the camera with your fingers placed on the front face of the camera. Instead, hold the camera on its edges so that the light of the flash does not reflect off your finger(s) and cause lens flare.

Test photos

Before you capture your first images, we recommend you take some test photos to make sure that the camera is working properly. This will also help you become comfortable holding the camera in order to capture satisfactory images.

Identifying the parts

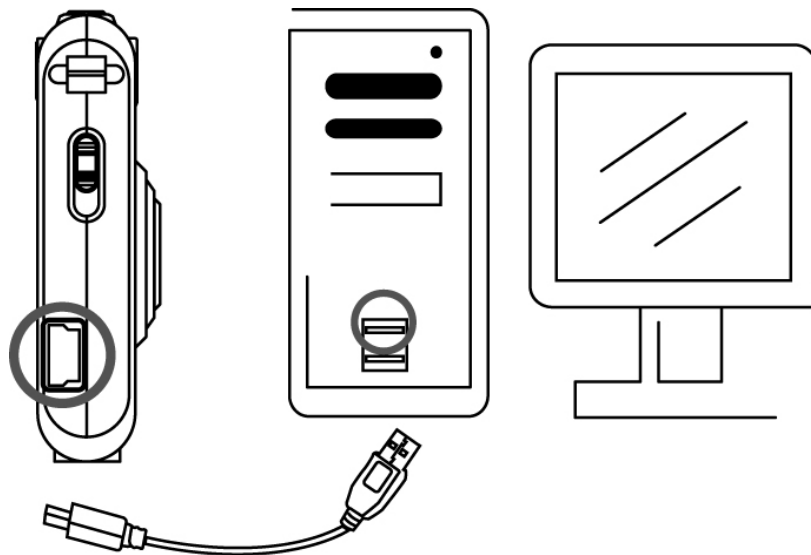


3 Using Your Digital Camera

Charging the battery

Long battery life is one of the key benefits of this camera compared to other digital cameras. On a full charge, the camera will capture hundreds of images. Your camera battery has already been charged prior to shipment. So, you should be able to take pictures without recharging it. However, just to be safe, you may want to follow the instructions below to make sure that your camera is fully charged before leaving home

The lithium-polymer battery used in the camera recharges automatically when the camera is plugged into a PC via the USB cable. In order to charge the battery the first time, first install the included software (see **Installing the Software** in section 4) and then plug the camera into your computer using the provided USB cable. When the battery is charging, the green LED will blink. When charging is complete, the green LED will be steady on.



Lithium-polymer battery tips:

- **Safety note:** Always observe the precautions described in Section 8.
- It takes approximately 3 hours to fully charge a depleted battery.
- The camera can be charged at ambient temperatures between 0°C (32°F) and +40°C (104°F).
- The battery does not need to be fully discharged or exhausted before being recharged.
- Lithium-polymer batteries lose their charge even when not used. So, be sure to charge the battery before taking pictures.
- To ensure that your battery lasts as long as possible, switch the camera off when you are not using it.
- The number of available shots will be lower at low temperatures. You can increase the amount of power produced by putting the camera in your pocket or another warm place to heat it just before taking pictures. If you are using a heating pad, take care not to place the camera directly against the pad.

Turning on the camera








Press the Power button once to turn on the camera. Press it again to turn the camera off.

- **Note:** The camera has an automatic time-out feature to conserve battery life. After one minute (or 2 minutes) the camera will time-out (turn off). When timed out, the camera will not take a photo when you push the shutter button. Press the Power button once to turn on the camera again.
- If power is low, the red LED blinks 5 times and then the camera turns off. Recharge the battery immediately.

Turning on the LCD

The LCD screen comes on automatically in preview mode when the power is turned on. Press the LCD button once more to switch to preview mode with icons visible. Press the LCD button again to turn off the LCD.

Understanding LCD icons

<i>LCD</i>	<i>Description</i>
	Picture Counter. Shows remaining number of shots.
	Indicates Battery Charge State  : The battery has ample charge.  : The battery is approximately half-charged. Suggest charging it before next use.  : The battery has no charge. Please recharge immediately.
	Secure Digital card indicator
	Strobe indicator. Flashes on and off while charging. Steady on when flash is set to Automatic.

Mode selection

Your camera has three modes of operation:

- Picture-taking (for capturing images)
- Playback (for reviewing and deleting images)
- USB mode (for downloading images to a computer and charging the battery)

When the USB cable is connected to the camera and a computer, the camera automatically goes to USB mode.

Picture-taking mode

The green LED will be solid when the camera is ready to take pictures. If the green LED is blinking, the camera is not ready. It may blink for 1 second while storing an image and for 5 seconds while recharging the flash.

Picture-taking mode menus

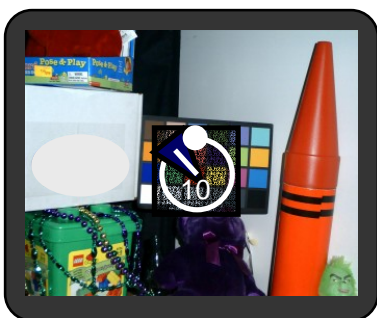
- Press the Menu button to access the menus.
- Use the Up and Down arrow buttons to make selections.
- Press the Select button to cycle through the available options.
- Press the Menu button to save your selections.

Function Menu	Setting	Description
FLASH	AUTO	Flash functions automatically in the dim condition
	OFF	Flash is disabled
	ON	Force flash to function under any lighting condition
TIMER	OFF	Self-timer is off
	10 S	Captures an image 10 seconds after pressing the shutter button Note: After taking the picture, self-timer function turns off.
	2 S	Captures an image 2 seconds after pressing the shutter button.
SIZE	LARGE	Takes 1500 x 2000 pixels 8 image in internal memory
	MEDIUM	Takes 750 x 1000 pixels 16 image in internal memory
	SMALL	Takes 375 x 500 pixels 32 image in internal memory
SOUND	ON	Turns audio beeps on
	OFF	Turns audio beeps off
LANGUAGE	ENG	Displays English menu
	FRA	Displays French menu
	ITA	Displays Italian menu
	DEU	Displays Deutsch menu
	ESP	Displays Spanish menu
	日本語	Displays Japanese menu
	汉语	Displays Chinese menu
	NL	Displays Dutch menu
ZOOM	POR	Displays Portuguese menu
	1x	Takes/Displays picture in normal size
	2x	Takes/Displays picture in double size
TIMEOUT	4x	Takes/Displays picture in 4 times size
	1 MIN	Turns camera off automatically after 1 minute of inactivity
DISPLAY	2 MIN	Turns camera off automatically after 2 minutes of inactivity
	HIGH	Sets high brightness LCD
COUNTER	LOW	Sets low brightness LCD
	RESET	Resets the picture counter to zero

Typical picture-taking mode menu displays



Picture-taking mode with timer on



Note the timer icon in the center of the display. When the timer is on, and set to 10 seconds (for example), the front red LED begins blinking when the shutter button is pressed. It begins counting down with 8 seconds of slow blinking (with audio beeps if the sound is on) and 2 seconds of fast blinking (with audio beeps). After the picture is taken there is a 1 second audio beep and the red LED goes steady.

Playback mode

Use the Playback mode to review images you have captured and to review images in order to delete them. Select Playback mode by sliding the mode switch to the right. The last picture taken is displayed first. If the camera is empty, the display will say “No pictures on camera.” Only the active media (SD card or internal memory) is displayed. In order to review pictures in internal memory, the SD card must be removed. After a picture has been deleted, the camera will return to Playback mode.

Playback mode menus

Menu	Selection	Description
Delete	Confirm delete of current image	Select Yes or No
Delete All	Confirm delete of all images	Select Yes or No
Format	Formats the SD memory card	Select Yes or No

USB mode

Use the USB mode to download images to your computer and to recharge the camera’s battery. The mode selection switch can be in either position (Picture-taking or Playback). Connect the mini USB plug to the mini USB socket on the camera and connect the larger size USB plug to the USB socket on your computer. You will hear a low-high beep when connecting and a high-low beep when disconnecting. All camera buttons are inactive during USB mode.

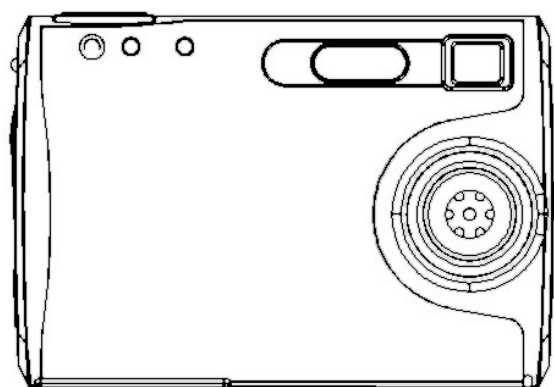
USB mode activity

Activity	What’s Happening
Blinking green LED	Charging
Solid green LED	Fully-charged
Medium blinking red LED	USB waiting for enumeration
Solid red LED	USB connected and transfer data
Fast blinking red LED	When connecting camera to PC before driver is installed. Please install driver.

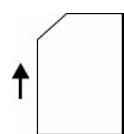
Note: See Section 5 on how to download images to your computer.

Using Secure Digital (SD) memory cards

Your camera is capable of storing images on Secure Digital (SD) memory cards. To use an SD card, insert the card into the SD slot in your camera. The LCD will show the SD card indicator when an SD card is in the slot.



SD card icon is displayed
When card is inserted



Insert SD card in
the card slot

It may be necessary to format the SD card if the card has been used in devices other than your camera. To format, see **Formatting Flash Memory or SD Card** in section 3.

“0” displays at lower right of the LCD display when the SD card is full, or the SD card is write-protected, or there is an error writing to the card. You cannot take picture. To take picture, download the pictures to your computer, or delete some unimportant pictures from the SD card (refer to page 11), or use a writable SD card.

Changing resolution

Your 3MP Digital Camera offers three choices in resolution: Large, Medium and Small. Large resolution is 1500 x 2000 pixels, Medium resolution is 750 x 1000 pixels, and Small resolution is 375 x 500 pixels. The higher resolution setting allows for an image to be printed as large as 8 x 10 inches, but requires more memory to store. The lower resolution setting will allow for more images to be stored on the camera, but does not ensure print-quality detail. It is best suited for images to be e-mailed or posted on a Web site.

Size	Resolution Size	# of Available Shots	
		16MB internal memory	128M SD Card (optional)
Large	1500 x 2000 pixels	8	56
Medium	750 x 1000 pixels	16	112
Small	375 x 500 pixels	32	224

To change the resolution:

- Turn the camera on and press the mode button.
- Select Size and then select LARGE, MEDIUM or SMALL.

Turning sound on/off

- Turn the camera on and press the mode button.
- Select Sound and then select ON or OFF.

Taking pictures

To take pictures using your Digital Camera:

- Turn the camera on.
- In low light conditions, check to make sure the flash is ready. Be sure the Flash is set to AUTO.
- Use the aiming mark in the viewfinder to center the image you want to capture.
- Alternatively, use the color LCD display to view the image you want to capture. The color LCD comes on automatically in preview mode when the camera is turned on. Press the LCD button again to view preview mode with icons.
- Hold the camera still and press the shutter button.
- The LCD will indicate when the picture has been successfully taken by cycling through the number display. If the sound feature is turned on, one short beep will also indicate that a picture has been taken.

Note: Safety while taking pictures

Do not use the camera while you are walking, running, driving or operating machinery. Doing so can result in a serious accident.

About Autobrite® technology

The camera offers the benefits of a technology known as Autobrite. This technology automatically adjusts the exposure and captures crisp details in scenes where both dim and bright lighting conditions are present, such as glare or backlighting. Most existing digital cameras produce washed out or silhouetted images under such conditions. We suggest you try to avoid taking pictures pointing directly at bright objects (such as the sun), due to the potential impact of extremely bright lighting on image quality and lens flare.

Autobrite is proprietary to SMaL Camera Technologies, Inc. of Cambridge, Massachusetts, USA.

Low light lock-out

Low light lock-out is a feature that prevents the camera from taking pictures in low light settings when the flash is not ready. When low light lock-out is enabled the camera will give a warning beep – even if the sound is off. To override low light lock-out, continue holding the shutter button for 1 second after the warning beep.

Deleting an image

To delete the most recent image:

- Turn the camera on and switch the Picture-Taking Mode/ Playback Mode to playback.
- Press the Menu button and select Delete.
- Use the up/down arrow buttons to select “*Yes*” to delete the image or “*No*” to save the image.
- Press the Select button to confirm your selection. Two audio beeps will confirm your selection.
- Repeat the process again to delete the next most recent image.
- To resume taking pictures move the mode selection switch to the left to Picture-taking mode.

To delete all the images on the camera:

- Turn the camera on and switch the Picture-Taking Mode/ playback Mode to Playback.
- Press the Menu button and select Delete All.
- Use the up/down arrow buttons to select “*Yes*” to delete all the images or “*No*” to save all the images.
- Press the Select button to confirm your selection. Two audio beeps will confirm your selection.
- To resume taking pictures move the mode selection switch to the left to Picture-taking mode.

Formatting internal flash memory or SD card

To format internal flash memory or SD card

Warning: Formatting an SD card or flash memory will delete all information.

- If formatting an SD card, insert the card into the camera. Remove the SD card if you are formatting the internal flash memory.
- Turn the camera on and switch the Picture-Taking Mode/ Playback Mode to playback.
- Press the Menu button and use the up/down arrow buttons to Select Format.
- Press the Select button to confirm your selection.
- Use the up/down arrow buttons to select Yes/No.
- Press the select button to confirm your selection.
- To resume taking pictures, switch the mode selection switch to Picture-Taking mode.

4 Installing the Software

System requirements

Windows

- Windows ME, 2000, or XP
- 266 MHz Pentium or better
- 32MB RAM
- 200MB available Hard Drive space
- CD-ROM or DVD Drive
- Available USB port

PhotoImpression 5.0 Installation

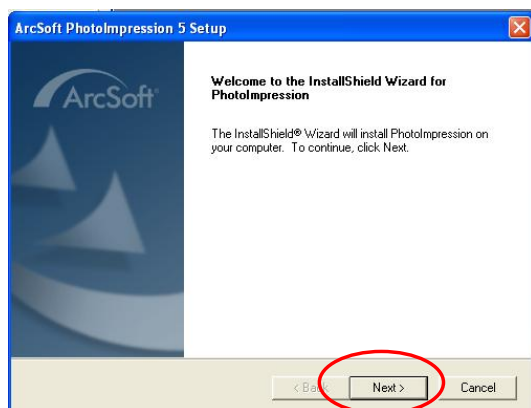
- Insert installation CD into your PC's CD-ROM drive.
- The introduction screen will appear automatically.
- Click "ArcSoft PhotoImpression 5.0".
- 4. Click "Next".



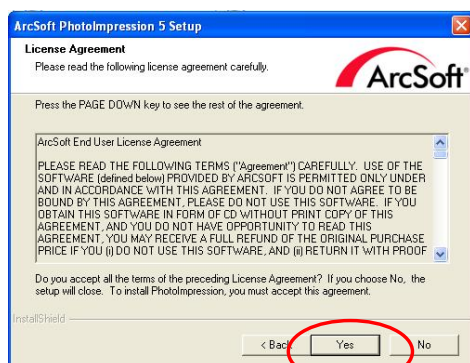
1. Choose Setup Language.



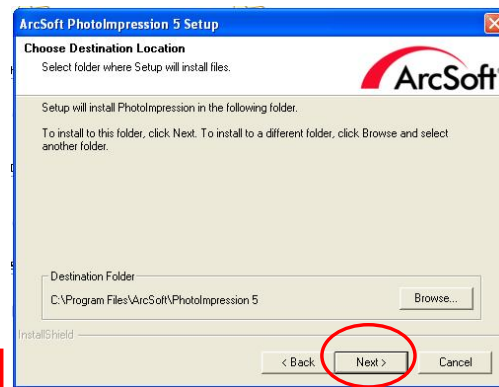
2. Click "Next".



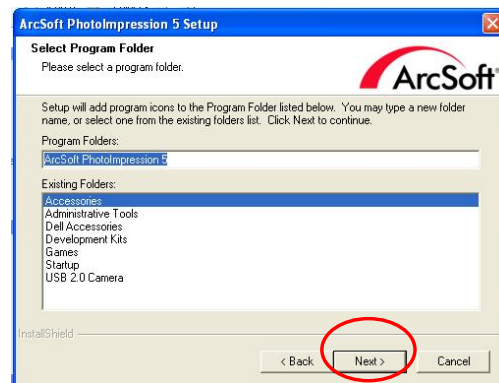
3. Click "Yes".



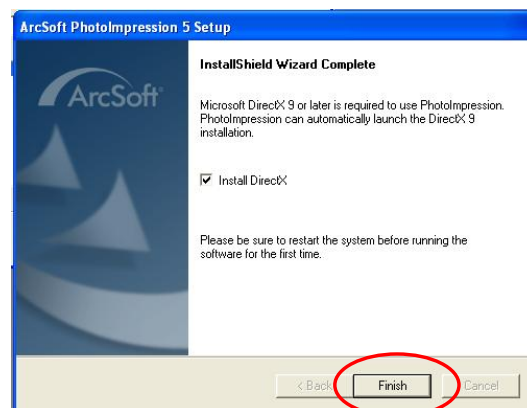
Note: To find out more about PhotoImpression 5.0 or how to use it, consult online help by clicking the "?" icon or "Help" on the pull-down menu.



5. Click "Next".



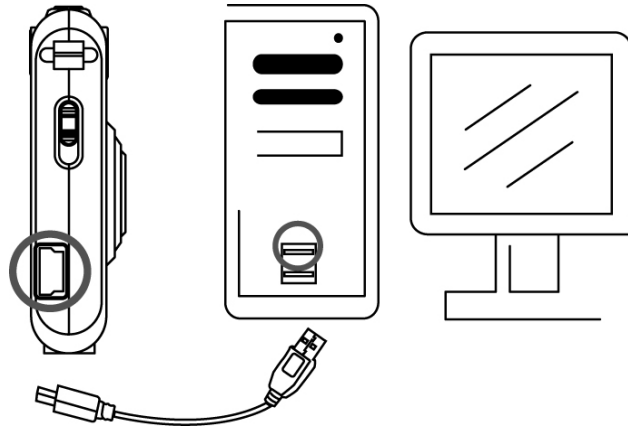
6. Click "Finish".



5 Connecting the Digital Camera to Your PC

After the software has been installed on your computer, plug the camera into an available USB port using the provided USB cable. The Windows operating system requires that you install drivers for the camera so that the camera and computer can communicate properly. To do this:

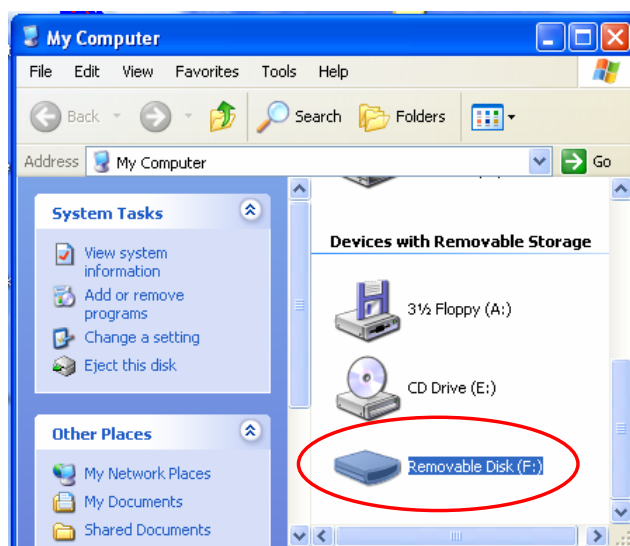
- Connect your camera to an available USB Port.



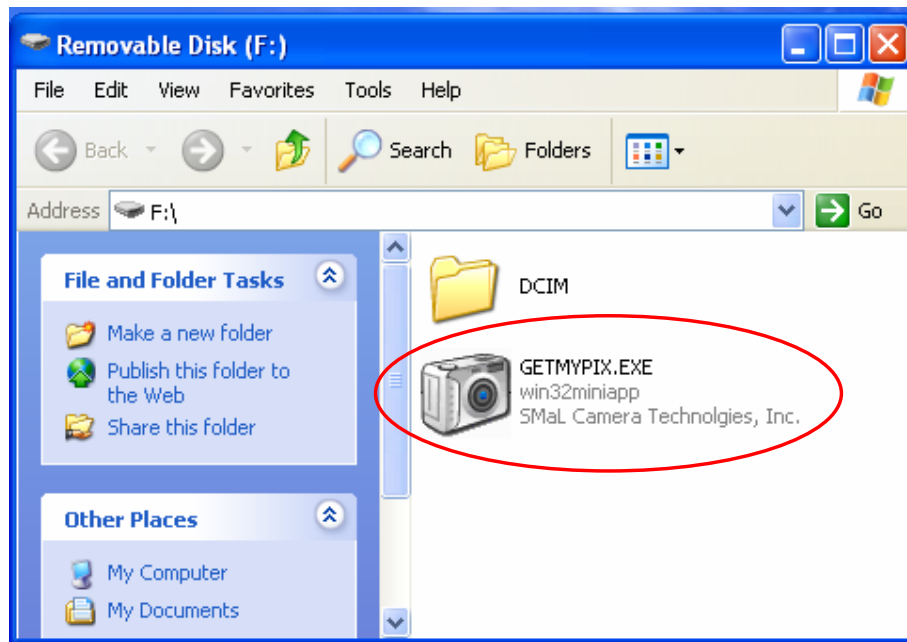
- Click “My Computer”



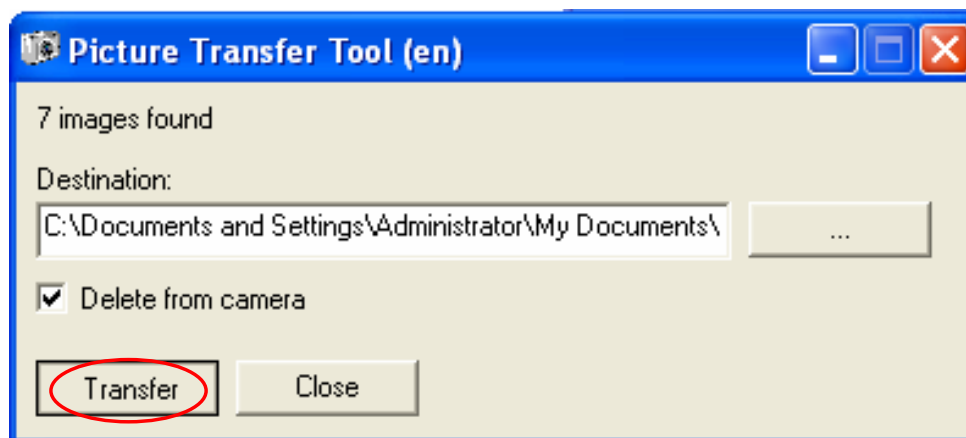
- Removable Disk Displayed
- Click “Removable Disk”



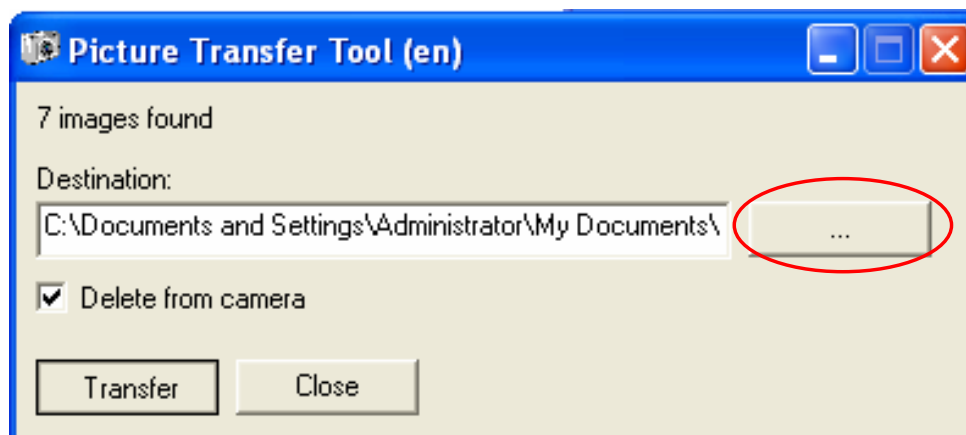
- Click “GETMYPIX.EXE”



- Click “Transfer” to download the photos to the default directory on C: \MyDocuments\ the folder will be named with the date.

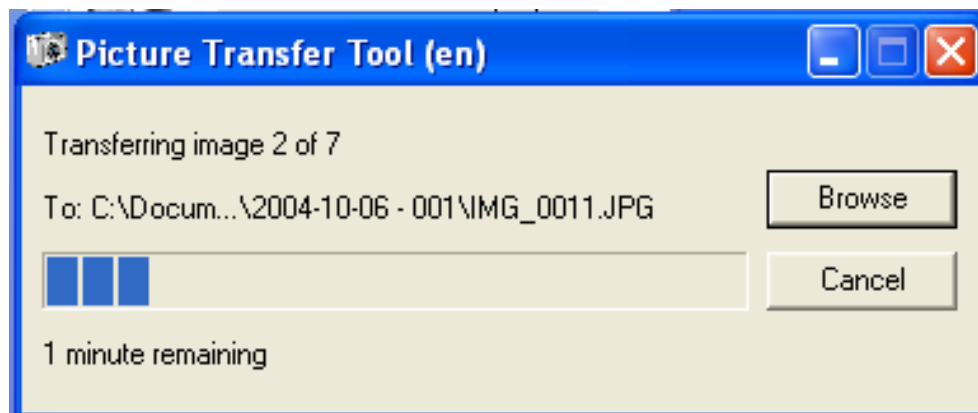


- Or click the right box as shown to browse the destination to download the photos.

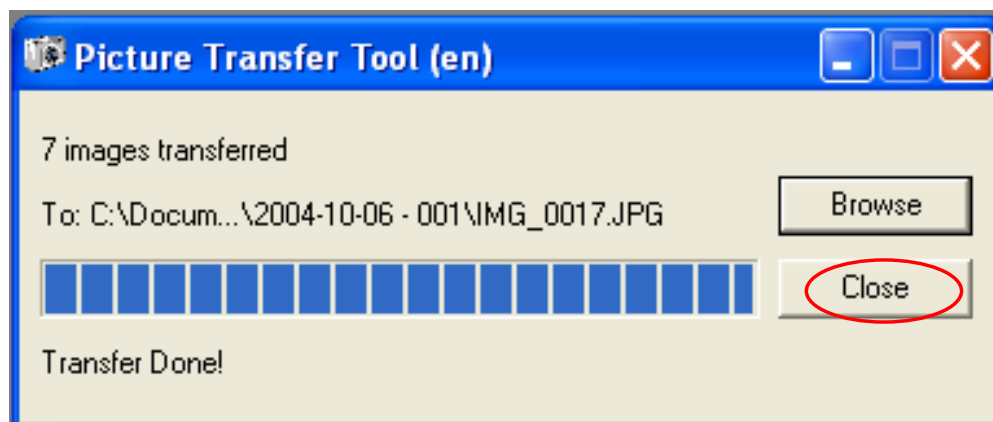




- Photos transferring, this may take a few moments.



- Click “Close” when it’s done. The photos are copied from the camera to the specified folder.



6 Troubleshooting

Problem	Symptom	Likely Cause	Solution
No power	Camera will not turn on	Battery power has been depleted	Recharge the internal battery (section 3)
Picture-taking	Image appears blurred or dark	The camera or subject was moving when the shot was taken	Hold the camera firmly
		The subject is too close	Move away from the subject
		The lens is dirty	Clean the lens with a soft cloth
	Flash does not go off as expected	Flash has not finished charging	Wait until the green LED is steady
		The flash has been turned off	Make sure the flash is set to AUTOMATIC or ON
	Camera will not focus	Subject is not in the center of the lens viewfinder or LCD (preview)	Move the subject to the center of the lens viewfinder or LCD (preview)
	Cannot take pictures when the shutter button is pressed	Camera is not turned on	Turn on the camera
No space on the SD card / internal memory		Delete unwanted files (section 3) or insert a new SD card (section 3)	
The camera has timed out		Turn the camera on	
PC Connection	PC does not recognize the camera	Check the USB cable connection	Make sure both ends of the USB cable are connected
		Interference from other USB devices	Disconnected other USB devices

		Check computer	Connect the camera to the PC with the USB cable and select [My Computer] – [Control Panel] – [System] – [Device Manager]. In the [Device Manager] window delete [Compose USB device] or [Unknown device] in [Other devices]. Then disconnect the camera and install the software before reconnecting the camera to the PC.
Camera malfunctions during use	Electrostatic discharge interfered with the camera	Check if the camera is connected to the PC	Turn off the camera and then turn it back on. If connected to the PC disconnect the camera from the USB cord, and turn it off then on again.
LCD	The LCD does not light.	If you turn the power off with the LCD off, the LCD screen is still set to OFF the next time the power is turned on.	Press the LCD button once to turn on the LCD.
Everything on the LCD flashes and “7” or “8” is displayed	Camera firmware defect	Sync firmware with PC	If the “Camera firmware is out of sync. Update recommended. Update firmware?” message appears when you connect the camera to your PC with the USB cable, click the [Yes] button to update your firmware.
LCD displays “E2” when a SD memory card is inserted	Incompatible file system on SD memory card	Format SD card	See Deleting an image/Formatting flash memory or SD card in section 3

7 Specifications

Imager	1/2-inch SMaL CMOS imager with Autobrite*
Imager Resolution	2032 x 1524 active pixels
Dynamic Range	55 dB linear / up to 85 dB with Autobrite*
Exposure Control	Automatic with Autobrite and low-light-level strobe activation
Sensitivity	Equivalent to ISO 100
Exposure time	1/15 second to 1/1,000 second
Exposure-to-exposure time	<4 seconds
Lens	Glass, F.L. = 8.2mm, F/3.0 (equivalent to 42 mm lens on a 35 mm camera)
Lens focus	Fixed, 1.5 m (4.9 ft) to infinity
Viewfinder	Reverse-Galilean optical viewfinder
Display	1.5" Color TFT
Controls	Power on-off, mode selection, shutter button, LCD on-off, menu, select, arrow up, arrow down
Strobe	Xenon flash lamp, guide number = 4.5
Strobe activation	Automatic (low-light detection)
Strobe distance	Approx. 0.8m ~ 2m
Image resolution settings	Large (1500 x 2000) pixels Medium (750 x 1000) pixels Small (375 x 500) pixels
White Balance	Autobrite*
Built-in storage	16MB flash memory holds 21 images (Medium-resolution); 32 images (Small-resolution)
Expansion slot	SD card
Computer/host interface	USB 1.1
System requirements	266 MHz Pentium 2 or greater with MS Windows ME, 2000, or XP
Dimensions	90 mm x 60 mm x 13mm (3.46" x 2.20" x .044")(not including protruding lens)
Weight	Approx. 80 grams
Battery specification	Lithium-polymer battery (rechargeable, non-removable)
Operation environment	Temperature: Approx. 0°C ~ 40°C (32°F ~ 104°F) Humidity: 80% or less (no condensation)

*Autobrite is a registered trademark of SMaL Camera Technologies, Inc. of Cambridge, MA, USA.

8 Safety Notes

We strongly recommend that you read these Safety Notes (and associated materials) before using your camera.

FCC compliance

The 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.

Note!

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any unauthorized modification to this equipment could result the revocation of the authorization to operate the equipment.

WARNING

- The enclosed disk is a computer CD-ROM. Never attempt to play this disk on an ordinary music CD player as it may produce extremely high noise levels that could damage your hearing or your audio equipment.
- The camera is a precision instrument. Never attempt to dismantle this device. There is a serious danger of a powerful electric shock.
- Do not drape the connection cord around your neck or otherwise treat the cable carelessly, as this could result in suffocation or injury.
- Do not look through the viewfinder at the sun or other strong light. Doing so could damage your eyesight.
- Do not leave the camera in locations exposed to direct sunlight, as this could cause a fire due to magnification by the lens.
- Do not bring the camera close to a flame or throw it into a fire.
- Do not drop the camera or otherwise subject it to strong impact.
- Do not immerse the camera in water.

Notes on Copyright

Images recorded using your digital camera system cannot be used in ways that infringe copyright laws without the consent of the owner, unless intended only for personal use. Note that some restrictions apply to the photographing of stage performances, entertainments and exhibits, even when intended purely for personal use. Users are also asked to note that the transfer of memory containing images or data protected under copyright laws is only permissible within the restrictions imposed by those copyright laws.

Liquid Crystal

If the liquid crystal display (LCD) is damaged, take particular care with the liquid crystal inside the panel. If any of the following situations arise, take the urgent action indicated:

- If liquid crystal comes in contact your skin: Wipe the area with a cloth and then wash thoroughly with soap and running water.
- If liquid crystal gets into your eye: Flush the affected eye with clean water for at least 15 minutes and then seek medical assistance.
- If liquid crystal is swallowed: Flush your mouth thoroughly with water. Drink large quantities of water and induce vomiting. Then seek medical assistance.

Handling Your Digital Camera Safely

This camera contains precision electronic components. To ensure that images are recorded correctly, do not subject the camera to impact or shock while an image is being recorded.

Places to Avoid

Do not use or store the camera in the following types of locations:

- In the rain or in very humid, dirty or dusty places.
- Places subject to extreme temperature rises, such as in direct sunlight or a closed car in summer. Extremely cold places.
- Places subject to strong vibration.
- Places affected by smoke or steam.
- Places subject to strong magnetic fields (such as near motors, transformers or magnets).
- In contact with chemicals such as pesticides or next to rubber or vinyl products for long periods of time.
- Sandy places such as beaches or deserts, or places where there is wind-borne sand.

Note on Condensation

If the camera is carried suddenly from a cold location into a warm location, water droplets may form on the inside of the camera or on the lens (condensation). When this occurs, switch the camera off and wait an hour before using the camera.

Cleaning Your Camera

- Use a blower brush to remove dust from the lens, LCD or viewfinder, and then wipe lightly with a soft, dry cloth. Leaving the lens extended for long periods can allow dust to enter the camera's viewfinder. However, this does not affect the image.
- Do not scratch hard objects against the lens, LCD or viewfinder as these surfaces are easily damaged.
- Clean the body of the camera with a soft, dry, cloth. Do not use volatile substances such as thinners, benzine or insecticide, as these may react with the camera body finish and cause deformation or remove the coating.

Checked Baggage

When traveling by air, do not place your camera in the check-in baggage. Baggage handling at airports may subject baggage to violent shocks, and the camera may be damaged internally even when no external damage is visible.

To prevent fire or shock hazard, do not expose the camera to rain or moisture.

<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>

Disposing of This Product

When disposing of this product, do so in accordance with your local waste disposal regulations.

9 Trademarks

- Autobrite is a registered trademark of SMaL Camera Technologies, Inc. of Cambridge, Massachusetts, USA.
- Microsoft and Windows are trademarks of the Microsoft Corporation of the U.S. and other countries. Windows is an abbreviated term referring to the Microsoft Windows Operating System.
- Pentium is trademark of Intel Corporation.
- All other company or product names are trademarks or registered trademarks of the respective companies.