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ENGLISH

FCC STATEMENT

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.

Note:

This equipment has been tested and found to comply with the limits for Class B digital devices, 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 into 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**

Use of shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the FCC rules. Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

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READ THIS FIRST

Notice:

1. Product design and specifications are subject to change without notice. This includes primary product specifications, software, software drivers, and user's manual. This User Manual is a general reference guide for the product.
2. The product and accessories that come with your camera may be different from those described in this manual. This is due to the fact that different retailers often specify slightly different product inclusions and accessories to suit their market requirements, customer demographics, and geographical preferences. Products very often vary between retailers especially with accessories such as batteries, chargers, AC adapters, memory cards, cables, carrying cases/pouches, and language support. Occasionally a retailer will specify a unique product color, appearance, and internal memory capacity. Contact your dealer for precise product definition and included accessories.
3. The manufacturer assumes no liability for any errors or discrepancies in this user manual.
4. For driver updates, refer to our website.

WARNINGS

- ⊗ Do not use the camera if it is emitting any smoke, unusual odor or noise, becoming unusually hot to the touch, or if it is in any other abnormal state. Operating the camera in any of these circumstances may cause a fire or an electrical shock. Stop using the camera immediately, turn the camera off, and then disconnect the power source. After checking that smoke is no longer being emitted, contact to your dealer or a local authorized service facility for repairs. Never attempt to repair this camera by yourself, as this is dangerous.
- ⊗ Do not use the camera if any foreign objects have entered the camera. Turn the camera off and then disconnect the power source. Later on contact to your dealer or a local authorized service facility. Do not continue to use the camera as this may cause a fire or an electrical shock.
- ⊗ Do not place the camera in any unstable locations such as on a wobbly table or sloping surface where the camera may fall or tip over and cause damage. If the camera has been dropped or if the camera case has been damaged, turn the camera off and then disconnect the power source. Then contact to your dealer or a local authorized service facility. Do not continue to use the camera as this may cause a fire or an electrical shock.
- ⊗ Do not expose the camera to moisture and avoid water getting into the camera. Take particular care when using the camera under extreme weather conditions such as rain or snow, or when operating the camera at the beach or near water. Water in the camera may cause a fire or an electrical shock.
- ⊗ Do not attempt to modify the camera. This may cause a fire or an electrical shock.
- ⊗ Do not remove the camera casing. This may cause an electrical shock. Any internal inspection, maintenance and repairs should only be carried out by your dealer or a local authorized service facility.

CAUTIONS

- ⚠ Do not place the camera in damp or dusty locations. This may cause a fire or an electrical shock.
- ⚠ Do not place the camera in a location affected by oil fumes or steam, such as near a cooking stove or humidifier. This may cause a fire or an electrical shock.
- ⚠ Do not cover or wrap the camera with a cloth or quilt. This may cause heat to build up, distort the case and cause a fire. Always use the camera and its accessories in well-ventilated locations.
- ⚠ Handle the camera carefully and do not bump the camera into any hard object. Handling the camera roughly may cause a malfunction.
- ⚠ When leaving the camera unused for long periods, such as during a vacation, always unplug the camera from the power source for safety. Failure to do so could result in a fire.
- ⚠ Do not use batteries other than those specified for use with the camera. The use of unsuitable batteries may result in the battery splitting or leaking and causing a fire, injury, or soiling of the battery compartment.
- ⚠ When fitting the battery into the camera, check the polarity markings on the battery (- and +) to ensure that you insert the battery correctly. Incorrect battery polarity may result in the battery splitting or leaking and causing a fire, injury, or soiling of the battery compartment.
- ⚠ Remove the battery if the camera will not be used for an extended period of time. The battery may leak and cause a fire, injury or soiling of the battery compartment. If the battery leaks, clean and wipe the battery compartment carefully and install new battery. Wash your hands carefully if you touch the battery fluid.

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INTRODUCTION

Congratulation on your purchase of this digital camera!

Equipped with a 5.3 Mega pixel CCD, this state-of-the-art smart camera is capable of capturing high-quality digital pictures with a resolution of up to 2560 x 1920 pixels.

Other cool features that make this camera unique and special are as the followings:



LCD monitor

You may use either the optical viewfinder or the 1.5" TFT color image LCD monitor. With the rotatable LCD panel, the camera enables you to compose your subjects in different angles easily. The LCD monitor also makes it easy to examine the taken images in detail.



Recording medium

The camera supports external SD memory card up to 512MB.



Camera mode

Besides the auto and program modes, the camera provides four fancy modes including portrait mode, landscape mode, night view mode, and sports mode that allows you to take photographs fast and easy under all conditions.



Optical zoom

Ranging from 1x to 3x, the optical zoom lens allow you to take tele-photo and wide-angle photographs.



Digital zoom

In the record mode, the digital zoom extends from the optical telescope zoom, starts from 1.1x, 1.2x... to 3X; whereas in the playback mode, it enlarges the images on the LCD monitor for you to examine small details.



Flash settings

Four flash settings enable you to take perfect photographs under all kinds of lighting conditions.



Focus mode

Photographs can be taken with the distance to the subject set by auto focus, macro telescope side (0.5 ~Infinity), Macro wide side (0.1m~Infinity) and Normal (0.8m ~Infinity).



Self-timer mode

2 seconds, and 10 seconds time interval before the camera automatically takes the photograph.



Still image capture modes

The camera can take different kinds of still images including a single image, a series of 4 images with the same focus and exposure, and a series of 3 images with different exposure.



Movie mode

Live movie recording with voice.



Camera settings

The camera provides various detailed settings in the menu options.



Thumbnail display

Nine images display in playback mode enables an easier and quicker selection of images.



TV and PC connection

Use a USB cable to connect the camera to a TV or computer and view your images on a television or computer.



DPOF settings

Allow you to embed printing information on your SD card and to print your images on a DPOF compatible printer by simply inserting it.

Package Contents

Carefully unpack your camera and make sure that you have all the following items. If any item is missing or damaged, please contact your retailer.

Common Accessories

- Digital camera
- User's manual
- USB cable
- Software CD-ROM
- Camera strap
- Camera pouch
- A/V cable
- AC cable
- AC plug
- AC power adapter/Charger
- Rechargeable Battery

Optional Accessories

- SD Memory Card
- Remote Control
- Car Charger

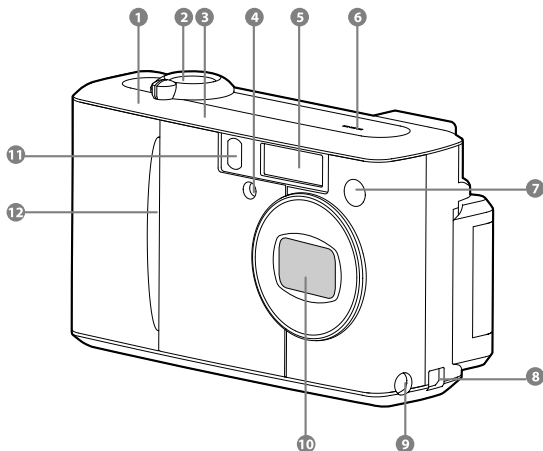


NOTE

- Included accessories and components may vary, as specified by different retailer. Check with your retailer for specific.

GETTING TO KNOW THE CAMERA

Front View



1. **T**

In Record Mode: **T** Tele Button

In Playback Mode: Zoom in button

2. Shutter Button

3. **W**

In Record Mode: **W** Wide-angle button

In Playback Mode: Thumbnail button

4. Photo Sensor

5. Built-in Flash

6. Microphone (MIC)

7. Optical Viewfinder

8. USB/AV OUT Terminal

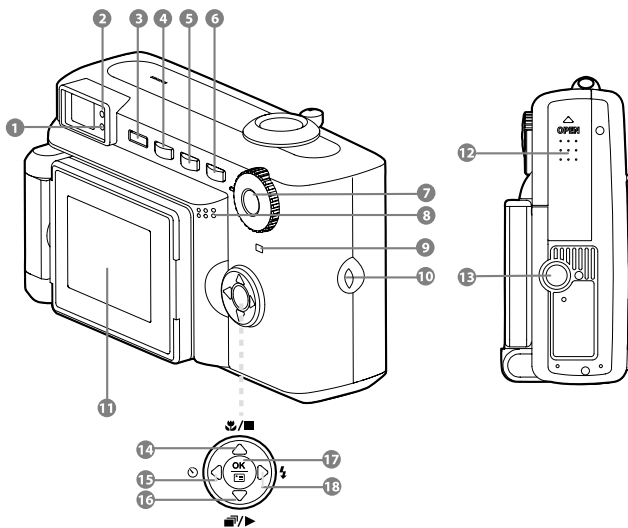
9. DC IN 5V Terminal

10. Lens/lens Cover

11. Remote Control Receiver

12. Power On/ Self-Timer LED

Rear View



1. Flash LED

2. Status LED

3. Power Button

4. Delete Button

5. Display Button

6. Q-VIEW Quick View Button

7. Mode Dial

8. Speaker

9. SD Card access LED

10. Strap Attachment

11. LCD Panel/Monitor

12. Battery/SD Memory Card Cover

13. Tripod Socket

14. Arrow Button (up)

Macro Button

Stop Video Clip Playback

15. Arrow Button (left)

Self-timer Button

Fast Rewind

16. Arrow Button (down)

Capture Mode Button

Start Video Clip Playback/Pause

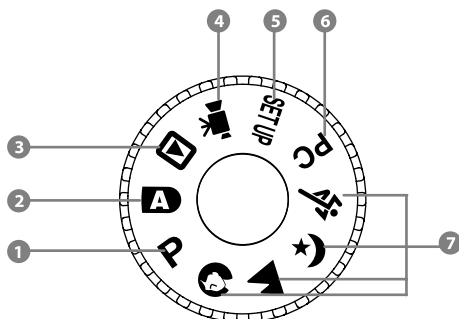
17. OK/Menu Button

18. Arrow Button (right)

Flash Button

Fast Forward

Mode Dial



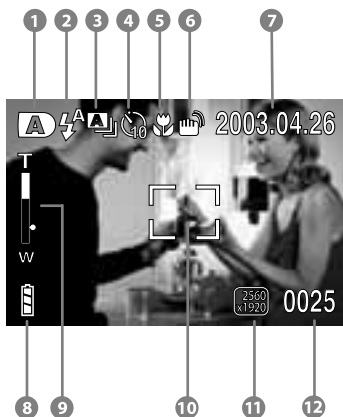
No	Icon	Name	Description
1.	P	Program Mode	This mode permits the shutter speed and aperture to be set automatically and other factors to be set manually.
2.	A	Auto Record Mode	This mode permits you to take images under a wide range of situations.
3.	▶	Playback Mode	This mode permits the camera to perform image playback, deletion, set DPOF.
4.	▶	Movie Mode	This mode is for recording Movies/ Video clips.
5.	SET UP	Set Up Mode	This mode allows you to change basic settings of the camera.
6.	PC	PC Mode	Select this when you wish to transfer your files to the computer
7.		Scene Mode	Description
		Sports Mode	Select this when photographing fast-moving subject.
		Night View	Select this when photographing evening or night scenes.
		Landscape Mode	Select this when you wish to photograph distant scenes.
		Portrait Mode	Select this when you wish to photograph a person and blur the background.

LED Indicator

Type	Color	State	Description
Status LED	Green	On	Camera is ready
		Blinking /Flashing	1) During an AF operation (S1) (Including an un-focus situation.) 2) During the image processing. 3) Camera cannot recognize the card. (No card or unknown card) 4) During the card formatting.
Flash LED	Red	Blinking	1) Flash is being charged. 2) When the user press the shutter button halfway down and the ambient lighting condition is dark.
Power On/ Self Timer LED	Blue	Blinking	1) During camera power on. 2) During Self-timer counting down. 3) When the shutter button is pressed.
Card Access LED	Green	On	1) Storing or reading data.

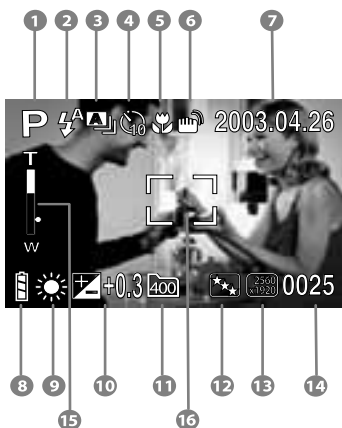
LCD Monitor Information

Auto Capture Mode



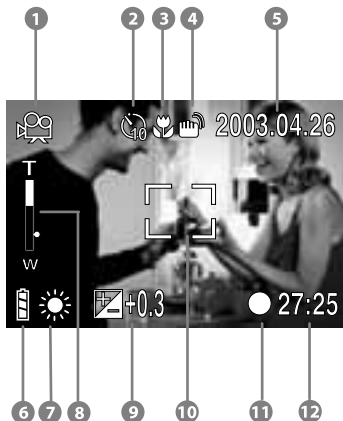
No.	Icon Indicator
1.	Mode dial setting
2.	Flash Mode
3.	Shot Mode (No icon) Single Burst Auto-bracket
4.	Self-Timer 10- second delay 2-second delay
5.	Macro (AF)
6.	Camera Shake
7.	Date
8.	Battery Condition Full Battery Power Fairly consumed Low Battery Power
9.	Zoom Status
10.	Focus Area [White] Normal [Green] The shutter button is pressed halfway, and the subject is ready to be captured. [Red] Warning, the subject is out of focus.
11.	Image Size 2560 X 1920 2048 X 1536 1280 X 960 640 X 480
12.	Possible number of shots

Program/ Night View/ Landscape/ Portrait/ Sports Mode



No.	Icon Indicator
1.	Mode dial setting
2.	Flash Mode: - OFF - Auto Flash - Fill in - Red-eye reduction
3.	Shot Mode
4.	Self-Timer
5.	Macro (AF)
6.	Camera Shake
7.	Date
8.	Battery Condition
9.	White Balance (No icon) Auto - Cloudy - Daylight - Bluish fluorescence - Reddish fluorescence - Incandescent fluorescence
10.	Exposure Compensation (EV)
11.	ISO (No icon) Auto - ISO 400 - ISO 200 - ISO 100
12.	Picture Quality - Fine - Normal - Basic
13.	Image Size
14.	Possible number of shots
15.	Zoom Status
16.	Focus Area

Movie Mode



No.	Icon Indicator
1.	Mode dial setting: Movie Mode
2.	Self-timer
3.	Macro
4.	Camera Shake
5.	Date
6.	Battery condition
7.	White balance
8.	Zoom Status
9.	Exposure Compensation value
10.	Focus Area
11.	Record Status:
	Previewing
	Recording
12.	Possible recording time

Playback Mode (Standard)



Icon	Indicator
1.	Mode dial Setting: Playback
2.	Captured Date and Time
3.	Digital zoom
4.	01 Print setting
5.	Protect
6.	Image Quality
7.	Image Size
8.	Folder Number
9.	File Number

Playback Mode for Movies/Video Clips:



No.	Icon Indicator
1.	Mode dial setting
2.	Captured Date and Time
3.	Motion Status: ■ Stop - Pause ▶ Play ▶▶ Fast Forward ◀◀ Fast Rewind
4.	Time: - Total recorded time - Playing recorded time
5.	Protect
6.	Motion
7.	Folder Number
8.	File Number

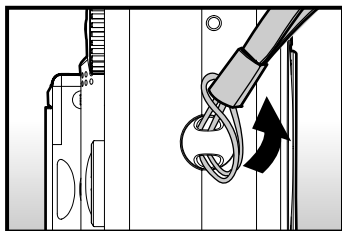
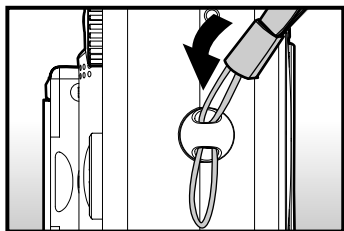
GETTING STARTED

The chapter introduces the basic steps and settings required to get your camera ready before taking pictures.

Attaching the Camera Strap

To prevent accidental dropping of your camera, always use the camera strap. Attach the camera strap as shown in the illustration:

1. Thread the small loop of the camera strap through the strap eyelet on the camera.
2. Pull the large loop through the small loop until the strap is firmly secured.



Installing the Battery

You can use either a rechargeable Lithium Ion battery, or an AC power adapter (5 V) to power your camera on. Battery power is convenient for capturing images or video clips. To install the battery, follow the steps below:

1. Make sure the camera is turned off.
2. Slide the battery/ SD Memory Card cover in the direction of the arrow.
3. Insert the battery pack, noting the correct polarity.

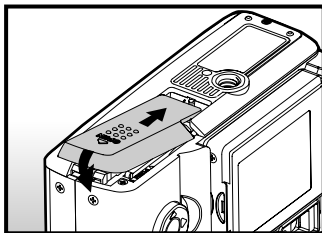
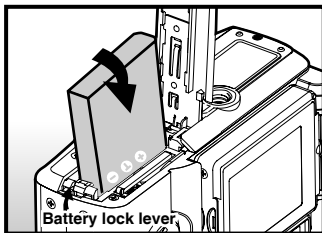
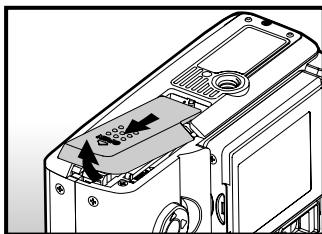
- Tilt the battery lock lever toward the strap attachment and then insert the battery following the direction of the arrow on the battery's label.

- Make sure the battery pack is properly inserted.

4. Close the battery/SD Memory Card cover.

- To remove the battery:

Open the battery/SD Memory Card cover and then release the battery lock lever. After the battery is slightly ejected, pull out the battery slowly.



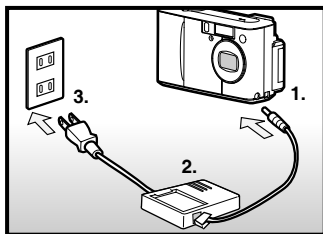
NOTE

- Low temperatures (under 0°C) may reduce the output efficiency of the batteries, thereby shortening the operation time of the camera.
- The camera cannot be powered on if the battery is inserted backwards. If so, please try to reverse the battery.
- Use only the specified battery type (Lithium Ion rechargeable).
- If you are not going to use the battery for an extended period of time, remove it from the camera to prevent leakage or corrosion.
- Avoid using cold battery in extremely cold environments as low temperatures will shorten the battery life and reduce the camera performance.
- Do not use Duracell Non-rechargeable Lithium battery.

Using an AC Power Adapter

It is recommended that you use an AC adapter power when transferring images to your computer to prevent accidental loss of image files.

1. Make sure the camera is turned off.
2. Connect one end of the AC plug (1) to the AC power adapter (2) and the other end of the AC plug to the jack labeled "DC IN 5V" terminal.
3. Connect one end of the AC cable (3) to the AC power adapter (2) and other end of the AC cable to an electrical outlet.



NOTE

- Make sure to use only the AC power adapter specified for this camera. Damage caused by the use of an incorrect adapter is not covered under the warranty.
- Use your AC power adapter while transferring images to your computer to conserve battery life and prevent unexpected automatic power off of the camera.
- The AC power adapter can provide camera power and charge the battery at the same time.

Charging the Battery

Make sure to use the rechargeable Lithium ion battery. To recharge the battery, please use the battery charger provided with the camera, and follow the steps below:

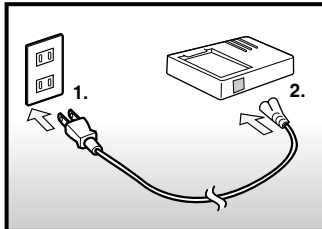
1. Insert the battery into the AC power Charger.(2)

- Make sure to match the polarity marked on the battery with the polarity marked on the AC power Charger.

2. Connect one end of the AC cable (1) to the AC power Charger.

3. Connect the other end of the AC cable (1) to a power outlet.

- Charge the new battery for at least 8 hours before initial use, even when the adapter light turns green.
- Light indication on th AC power charger turns red during charging and turns green when charging is completed.



NOTE

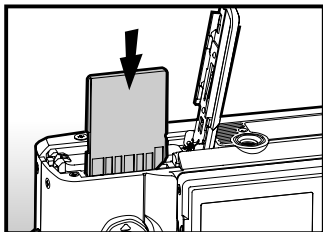
- Make sure to use the AC power adapter specified for this camera. Damage caused by the use of an incorrect adapter is not covered under the warranty.
- Do not charge the camera battery in a high temperature environment. Charge it only at room temperature.
- Never use a battery unspecified for the camera.
- New batteries or batteries that have not been used for an extended period of time (batteries that pass the expiry dates are exceptions) might affect the number of pictures that can be taken. Therefore, to maximize their performance and lifetime, we recommend that you fully charge the batteries and discharge them for at least one complete cycle before use.

Inserting an SD Memory Card (Optional)

All images and video clips taken by the camera are stored on an SD (Secure Digital) Memory Card. If the camera power is turned OFF, your images saved on the SD Memory Card will not be lost. An SD Memory Card can be used repeatedly. You may use an SD Memory Card up to 512MB so that you can store additional images and video clips.

1. Make sure the camera is off.
2. Slide open the battery/SD Memory Card cover.
3. Insert an SD Memory Card:

- Hold the SD card with its metal surface facing the LCD monitor side, then insert the card as far as it can go.
- Make sure the memory card is inserted in the correct orientation, otherwise you may damage the camera or card.



4. Close the battery/SD Memory Card cover.

- To remove the SD Memory Card, make sure the camera is off. Open the battery/SD Memory Card cover. Press lightly on the edge of the memory card and it will eject.



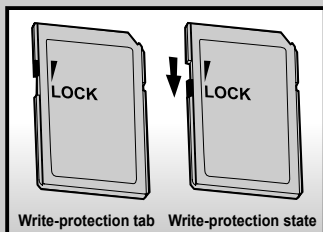
NOTE

- If the camera is turned on without the card, the "No SD Card" [] message appears on the LCD monitor.

- To prevent valuable data from being accidentally deleted from an SD Memory Card you can slide the write-protected tab (on the side of the SD Memory Card) to "LOCK".

- To save, edit or erase data on an SD Memory Card, you must unlock the card.

- This camera also supports Multi Media Card (MMC).
- It is suggested that you format the SD Memory Card in the camera before use.
- The camera only supports 16 MB SD cards or above.



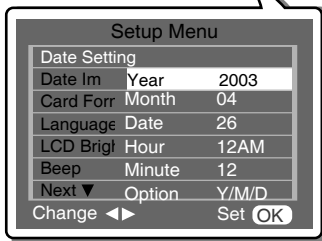
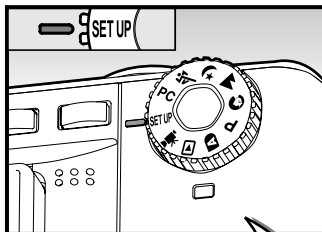
Setting the Date and Time

To change values for the date and time that have been previously set, set the mode dial to [SETUP] Set up mode.

1. Select the **Date Setting** with the ▲ and ▼ buttons.
2. Press the ► button to display the sub menu.
3. Select the desired item of **Year**, **Month**, **Date**, **Hour**, **Minute** or **Option** by using the ▲ and ▼ buttons.
4. Change the values of the date and time by pressing the ◀ and ▶ buttons.

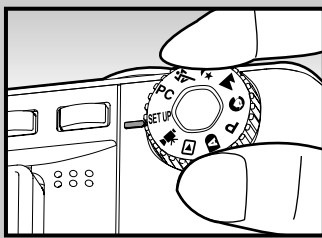
- The option item enables you to select the order of Year/Month/Day.
- To increase the value for each option, press the ► button.
- To decrease the value for each option, press the ◀ button.
- Seconds cannot be set.

5. Press the  **OK/Menu** button to confirm the setting.



NOTE

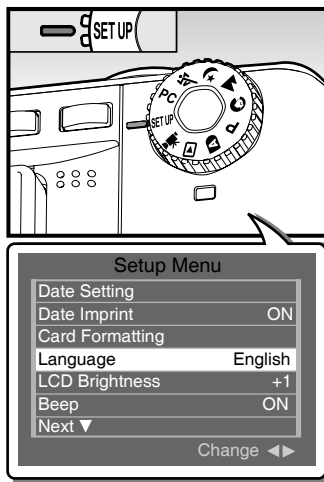
- It is highly suggested to rotate the mode dial with your thumb and index fingers.



Choosing the Language

Menus and messages can be displayed in English, German, French, Italian, Spanish, Portuguese, Simplified Chinese, Traditional Chinese and Japanese. To select your desired language:

1. Set the mode dial to [**SET UP**] Set up mode.
2. Select **Language** with the **▲** and **▼** buttons.
3. Select the desired language by using the **◀** and **▶** buttons.
4. Change the mode dial to exit the **Setup** menu.

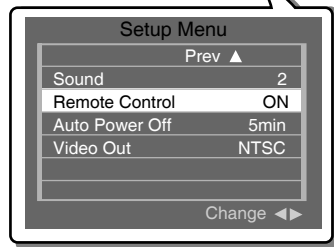
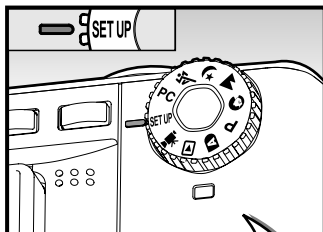
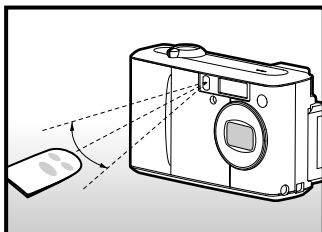


About the Remote Control

(Optional accessory only for the camera with remote control function)

The remote control allows you to capture or playback images away from the camera.

1. Set the mode dial to [SETUP] Set up mode.
2. Select **Remote Control** with the ▲ and ▼ buttons.
3. Use the ◀ and ▶ buttons to select [ON] or [OFF].
4. Change the mode dial to exit the Setup Menu.



- When you use the remote control to take a picture, AE, and AWB will be locked.
- Handle the remote control with care. Do not drop, shake, or subject it to strong impact.
- Avoid liquid spills to come in contact with the remote control.
- Do not disassemble the remote control.
- Do not operate the remote control in extreme temperature or humidity.
- Do not expose the remote control sensor to direct sunlight or other bright light sources.

TAKING PHOTOGRAPHS

Your camera provides single-image capture, continuous image capture and automatic exposure bracketing modes. It is equipped with both an optical viewfinder and a 1.5" full color TFT LCD monitor, which can be rotated to compose images.

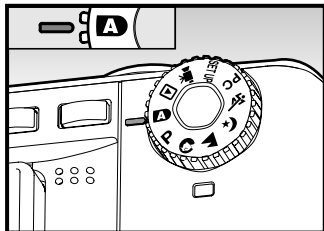
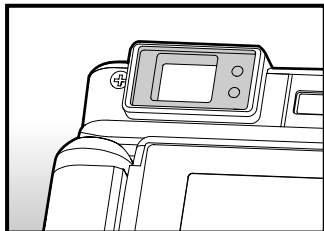
Shooting Still Images

Preparations

Using the Viewfinder

Capturing images by using the optical viewfinder will conserve battery power. The viewfinder is recommended when the battery power is low and when bright ambient lighting conditions make the LCD monitor display difficult.

1. Turn the camera on by pressing the **POWER** button.
2. Set the mode dial to [**A**].
3. Compose your picture in the viewfinder.
4. Press the shutter button down halfway to set exposure and focus, and then press it down fully to capture the image.

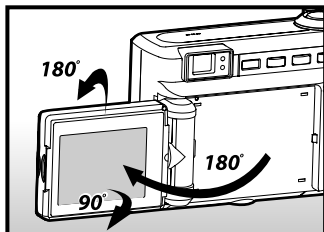


Changing the Angle of the LCD panel

The LCD panel can be rotated by 180° horizontally and rotated forward 180° and backwards 90° to help you accurately compose the pictures and examine all details.

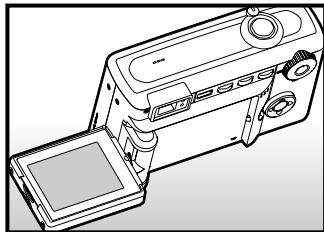
1. First, unfold the LCD panel horizontally by 180°, align the front side of the LCD panel with the rear side of the camera.

■ When the LCD panel is folded out as shown, it can be rotated forward 180° and backwards 90°.



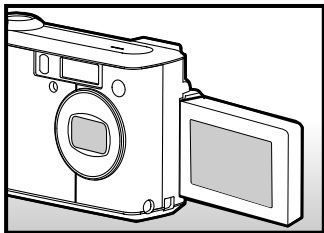
2. Hold the LCD panel and turn the camera up by less than 90°.

■ You can compose images of higher subject simply by looking at the LCD monitor.

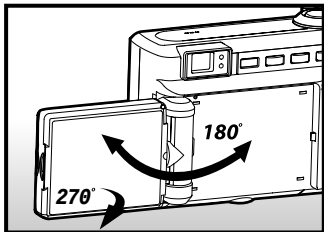


3. Rotate the LCD panel forward until the front side of LCD monitor is parallel to the front side of the camera.

■ This enables you to view your self-portrait on the LCD monitor during self-timer mode.

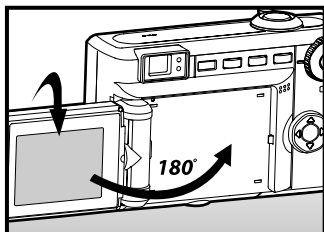


■ When the LCD panel is as shown it can be rotated backwards 270°.



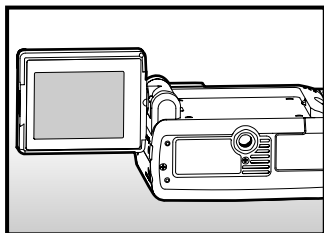
4. To fold the LCD panel back, rotate the LCD panel backwards by 180° until the front side of the LCD monitor is parallel to the rear side of the camera, and then fold it back to the camera body.

- If the LCD monitor is not in use, fold the camera back to protect it from dust or fingerprints.

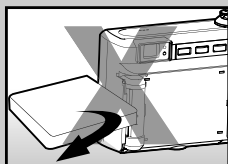
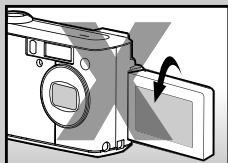


5. Hold the LCD panel and turn the camera down by less than 90°.

- This allows you to compose images of subject underneath.

**NOTE**

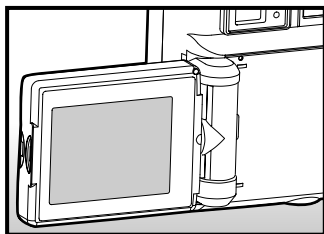
- Please rotate the LCD panel carefully and with the correct direction, over rotation and rotation with the wrong direction may damage the hinge that connects the LCD monitor to the camera.
- Avoid contact with the LCD monitor when moving the LCD panel.
- Do not hold the camera by the LCD panel.
- Make sure you open the LCD panel at 180°, before attempting to rotate it backwards or forwards.
- Always fully fold the LCD panel back until it clicks.
- Do not expose the LCD monitor, viewfinder or lens to direct sunlight.
- LCD monitor exposed to bright light may result in glare that makes it difficult for you to compose the image. Under such condition, turn off the LCD monitor and compose the image with the viewfinder. You may also try to adjust the brightness of the LCD monitor.



Using the LCD Monitor

The LCD monitor is convenient for you to compose the image before you shoot, view the images taken and allow you to delete images you don't want. However, using the LCD monitor will consume more battery power. Always use the LCD display for macro shots.

1. Turn the camera on by pressing the **POWER** button.
2. Rotate the mode dial to [**A**].
 - By default, the LCD monitor setting is [**ON**].
3. Compose the picture in the LCD monitor.
4. Press the shutter button down halfway to set exposure and focus, then press it down fully to capture the image.



LCD Monitor Display

The LCD monitor enables you to compose the image with icons indicating the status of various camera settings during shooting. You can use the [] Display button to turn the LCD monitor display and the display icons on and off.

Record Mode

Whether in [**Still Image**] or [**Movie**] mode, the [] display function enables you to preview image. Toggle the [] button, and the on screen display icon will follow the chart below.

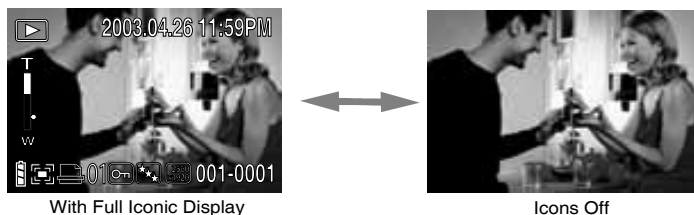
- By default, the LCD monitor setting is [**ON**] in Record mode.



Playback Mode

When the display button is pressed during the playback mode, press the [] button repeatedly, and the on screen display icon will follow the chart below.

- By default, the LCD monitor setting is [**ON**] in Playback mode.



NOTE

- The image on the LCD monitor darkens in strong sunlight or bright light. This is not a malfunction.
- Using the LCD monitor for an extended period of time will decrease the number of images you can take. To increase the shots and conserve battery power, it is recommended to turn the LCD monitor off and use the viewfinder instead.
- By default, the LCD monitor setting is [**ON**] in Setup mode and [**OFF**] in PC mode.

Setting the Still Image Size and Quality

Image resolution and quality settings determine the pixel size (resolution dimension), image file size, and compression ratio for your images. These settings affect the number of images that can be stored on an SD Memory Card. Larger resolution and higher quality settings are recommended for printed output and situations requiring the finest detail.

Smaller resolution/ lower quality images take up less memory space and may be quite suitable for sharing images via e-mail, in a report, or on a web page.

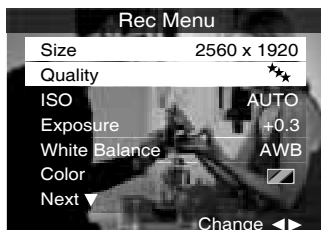
1. Rotate the mode dial to one of the following modes: **[P]** Program mode, Scene modes **[C]**, **[M]**, **[A]**, **[S]**.

2. Press the **OK/ Menu** button.

3. Use the **▲** and **▼** button to select **Size** or **Quality** options.

4. Use **◀** and **▶** buttons to select the desired quality and size.

5. Press the **OK/ Menu** button again to confirm the setting.



- The table below indicates the approximate number of images that can be stored in a given memory capacity.

Quality Image Size		SD Memory Card			
		16 MB	32MB	64MB	128MB
Fine (1/4)	2560X1920	5	12	25	51
	2048 X1536	9	19	39	80
	1280X 960	23	48	99	200
	640 X 480	82	172	352	712
Normal(1/8)	2560X1920	11	24	50	103
	2048 X1536	18	38	79	159
	1280X 960	45	94	193	391
	640 X 480	150	315	645	1305
Basic (1/16)	2560X1920	23	48	99	200
	2048 X1536	36	75	155	313
	1280X 960	82	172	352	712
	640 X 480	226	473	968	1958



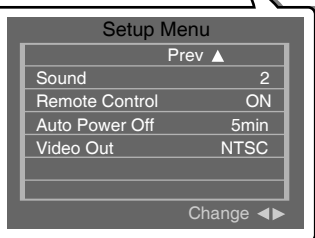
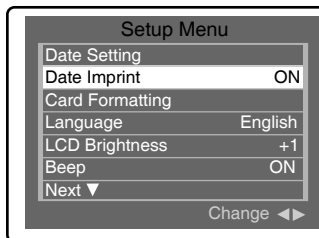
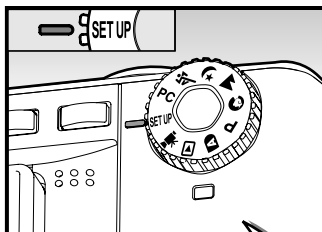
- The numbers above are only for reference; the actual number will vary under different conditions and captured subjects.
- In the [] Movie record mode, the available image size is 320x240 pixels.

Shooting with the Date imprinted

This option allows you to imprint the date and time on the still image.

To enable this function:

1. Rotate the mode dial to [**SETUP**] Set up mode.
2. Press the **OK/Menu** button.
3. Select the **Date Imprint** by using the and buttons.
4. Use the and buttons to choose [**ON**] or [**OFF**].
 [**ON**]: Imprint the date on the still image.
 [**OFF**]: No data imprinted.
5. Change the mode dial to exit the Setup menu.

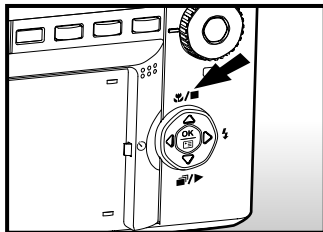


Auto Record Mode

In the Auto Record mode, the camera is locked into the most default setting to guarantee the best images under a wide variety of situations.

Selecting the Focus

The macro setting is for photographing objects very close to the camera. Remember to return to the normal focus mode when you try to take a normal picture.



1. Set the mode dial to one of the following modes: [**A**] Auto mode, [**P**] Program mode, or [**M**] Movie mode.
2. To change the Focus Mode, toggle the **▲** button and select the correct Focus Mode.

ICON	Focus Mode	Description
No	Normal	Select this when the subject for your photograph is about 0.8 m from the camera or further.
	Macro	Select this when the subject for your photograph is about 0.5m(TELE)/ 0.1m(WIDE) from the camera or further.

3. The selected focus mode is displayed on the LCD monitor.
 4. Use the LCD monitor to compose the picture.
 5. Press the shutter button halfway down, and then press it down fully.
- When the shutter button is pressed halfway down, the focus indicator will show the subject's framing status:
- [Green]: The subject is ready to be captured.
 [Red]: Warning, the subject is out of focus.





NOTE

This camera offers an accurate auto-focus mechanism. However, sometimes it will be difficult to focus or not be able to focus under the following situations:

- When there are other objects before or behind the subject;
- When the subject is very shiny such as a mirror or a car body.
- When the subject hardly reflects any light such as hair or fur.
- When the contrast is extremely low.
- When the subject is moving at high speed.
- When the subject has no substance such as smoke or flame.
- When the subject is viewed through glass.
- When the subject is far away and dark.

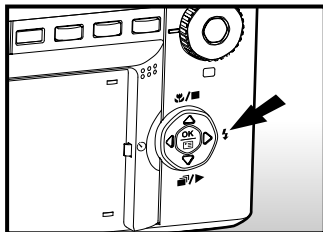
Selecting the Flash Mode

Evaluate the ambient lighting conditions and select the proper flash mode. When the camera is turned on, the Flash is automatically set to Auto.

1. To change the Flash Mode, set the mode dial to one of the following modes:

[**A**] Auto mode, [**P**] Program mode, Scene modes [], [], [], [].

2. Toggle the button to select one of the following flash modes:



ICON	Flash Mode	Description
	Auto Flash	The camera will use the flash accordingly based on the ambient lighting conditions.
	Fill In	The flash will be used compulsively regardless of the ambient lighting conditions. (Select this mode when recording high contrast and dark shadow images.)
	Red-Eye Reduction	The camera uses a strobe light before shooting to eliminate the red-eye phenomenon. (Select this mode when taking photos of people and animals in low-light condition.)
	OFF	The flash is turned off.

3. Use the LCD monitor to compose the picture.
4. Press the shutter button halfway down, and then press it down fully.



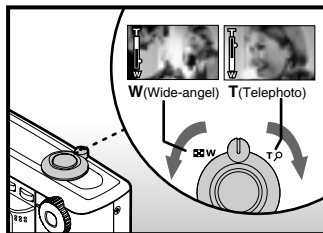
NOTE

- Flash cannot be used in Burst capture mode.
- Flash cannot be used in Movie recording mode.
- Both the status LED light and Flash LED light will blink when the flash is being charged.

Using the Optical Zoom

The lens moves during zoom photography. Zoom photography allows you to take telephoto and wide-angle shots. The subject appears closer by pressing the [**T**] button and appears farther away by pressing the [**W**] button.

1. Rotate the mode dial to one of the following Record modes: [**A**] Auto mode, [**P**] Program mode, Scene modes [**SCN**], [**▲**], [**☺**], [**❄**].
2. Make sure the LCD monitor is turned on, if it is not, press the [**ON**] button.
3. Compose the picture by using the [**T**] and [**W**] button to adjust the zoom range.
 - Press the **T** button to zoom in on the subject, and enlarge the subject on the LCD monitor.
 - Press the **W** button to zoom out for a wide-angle shot.
4. Press the shutter button halfway down, and then press it down fully.



NOTE

- The lens position moves according to the zoom button setting.
- The optical zoom range from 1x to 3x.
- There are 7 zoom levels in the optical zoom.

Using the Digital Zoom

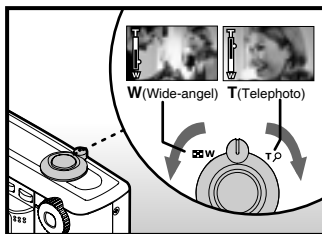
By using the digital zoom, images can be enlarged so that the subject appears closer. However, the more the image is enlarged, the grainier the image will become. The digital zoom function is only available when you set the LCD monitor ON. To capture the digitally zoomed image, perform the below steps:

1. Make sure the camera is turned on.
2. Rotate the mode dial to one of the following Record modes: [**A**] Auto mode, [**P**] Program mode, Scene modes [**Q**], [**▲**], [**☺**], [**❄**].
3. Compose the picture by using the [**T**] and [**W**] button to adjust the zoom range.

- Press the **T** button to zoom in on the subject, and enlarge the subject on the LCD monitor.

- The digital zoom extends from the optical telescope zoom, and starts from 1.1x, 1.2x... to 3X.

- Press the **W** button to zoom out for a wide-angle shot.



4. Press the shutter button halfway down, and then press it down fully.



NOTE

- The digital zoom range from 3X to 9 X and the optical zoom range from 1x ~ 3x.

Using the Self-Timer

When the  Self Timer button is used, the camera will not take a picture until either two or ten seconds after the shutter released button is pressed. To set the Self Timer:

1. Secure the camera on a tripod or place it on a stable surface.

2. Rotate the modes dial to one of the following modes:

Record modes: [] Auto mode, [] Program mode, Scene modes [], [], [], [] and [] Movie mode.

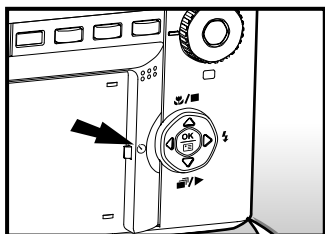
3. Toggle the  button to select the desired setting:

[OFF]: The default self- timer setting is off.

[]: 2-second: The camera automatically takes a picture after two seconds delay.

[]: 10- second: The camera automatically takes a picture after ten seconds delay.

- The selected self-timer icon will be displayed on the LCD monitor.



4. Compose the picture.
5. Press the shutter button down halfway, and then press it down fully to start the count down.
 - The count down starts.
 - The front LED light will blink during the self-timer's counting down.
 - To cancel the Self Timer, press the shutter button a second time during the counting down.



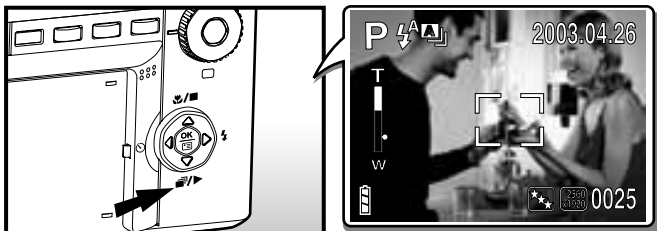
NOTE

- You may need to anchor the camera on a tripod when you use the self-timer function.
- In Self-Timer mode, the automatic exposure (AE) and automatic white balance (AWB) will be locked.
- No icon will be displayed on the LCD monitor when the self-timer function is turned off.

Selecting Capture Mode

This is an entertaining function that allows you to take consecutive pictures in seconds with different and creative effects.

1. Rotate the mode dial to one of the following Record modes: [**A**] Auto mode, [**P**] Program mode, Scene modes [**☺**], [**▲**], [**☺**], [**☺**].
2. Toggle the ▼ button to select the desired shot mode:



ICON	Capture Mode	Description
No icon	Single	A single shot. Auto-exposure (AE) and white balance are (AWB) locked.
	Burst Capture Mode	The camera takes 4 shots consecutively. All images are captured under the same auto-focus and auto-exposure (AE) condition.
	Auto Bracket	The camera takes 3 shots consecutively, and each with different exposure value, - 0.5EV, 0EV, +0.5EV.

3. Press the shutter button halfway down, and then press it fully down.



NOTE

- Flash is unavailable in Burst mode and Auto Bracket capture mode.
- Both burst capture mode and auto bracket capture mode are unavailable in the movie record mode.

Taking Photographs with the Remote Control

You can take photographs with the remote control, and thus include yourself in the photo.

1. Make sure to set the remote control [ON] in [SETUP] Set up mode.

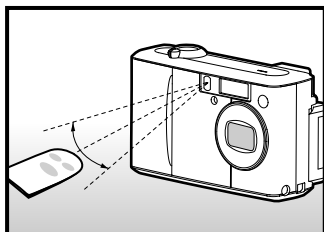
- Make sure the remote control is installed with a battery.

2. Set the mode dial to one of the following record modes: [**A**] Auto mode, [**P**] Program mode, Scene modes [], [], [], [] or [] Movie mode.

3. Press the remote control button.

- The camera automatically takes a picture or starts movie record after two seconds delay.

4. To stop movie record, press the remote control button a second time during movie recording.



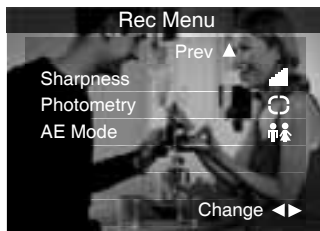
Program Record Mode

In the [**P**] Program record mode, you can adjust the **Exposure**, **White Balance**, **Photometry Mode**, and **AE mode** settings manually to meet your specific requirements for special effects.

Selecting the Exposure (EV)

You can change the automatic exposure to one of your own choices and make the photograph brighter or darker. The Exposure values range from **-2.0 EV** to **+2.0EV**, in 1/3 steps. At values other than ± 0 , the [] icon will be displayed on the LCD monitor. To change the exposure value:

1. Rotate the mode dial to [**P**] Program mode.
2. Press the  **OK/Menu** button.
3. Use the  and  buttons to select the **Exposure** options
4. Use the  and  buttons to select the desired exposure value.
5. Press the  **OK/Menu** button after all options are set.



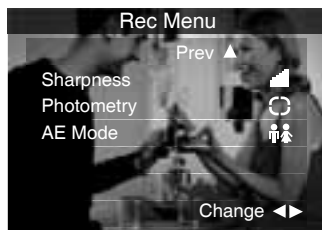
NOTE

- You may also change the exposure value in one of the Scene modes [], [], [], [] or [] Movie mode.

Selecting the White Balance (WB)

White balance is used to preserve natural colors under different types of lighting. The setting allows you to set the white balance when taking photographs under specific lighting conditions.

1. Set the mode dial to [**P**] Program mode.
2. Press the  OK/Menu button.
3. Use the  and  buttons to select **White Balance** option.



4. Use the  and  buttons to select the desired setting.

ICON	White Balance	Description
(No Icon)	Auto	White balance is automatically adjusted to suit different lighting conditions.
	Daylight	Photography under sunlight.
	Cloudy	Photography under cloudy skies.
	Bluish Fluorescent	Photography under bluish fluorescent lamp.
	Reddish Fluorescent	Photography under reddish fluorescent lamp.
	Incandescent	Photography under incandescent lamp.

5. Press the  OK/Menu button to confirm the setting.



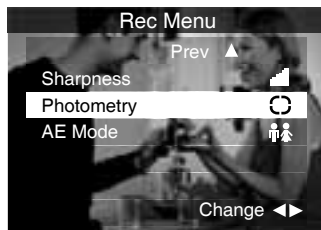
NOTE

- You may also change the White Balance setting in [] **Movie mode**.

Selecting the Photometry Mode

The photometry mode enables you to select the metering method, which measures the amount of light in the current frame and calculates the best-fit exposure.

1. Rotate the mode dial to [**P**] Program mode.
2. Press the  **OK/Menu** button.
3. Use the  and  buttons to select **Photometry** option.
4. Use the  and  buttons to select the desired setting.



ICON	Photometry	Description
	Center Weighted	In this mode, the exposure is measured and calculated for the entire area of the screen. By dividing the entire area of the screen, the exposure level for each unit is calculated. A well-balanced exposure can be obtained.
	Spot Photometry	In this mode, the camera aims for the subject directly in the central spot of the frame while the exposure of the rest of the frame is ignored. Select this when you want to take very bright or portrait shots.
	Multi - Point	The camera divides the image into several zones for photometry by evaluating such complex lighting conditions as the position of the subject, the brightness, the direct light, and the backlighting. As well, it calculates the optimal exposure for the main subject.

5. Press the  **OK/Menu** button to confirm the setting.



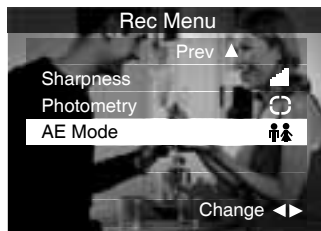
NOTE

- None of the photometry icon will be displayed on the LCD monitor during previews.

Selecting the AE Mode

Set the AE mode. The effective lighting range of the auto-exposure is from LV5 to LV 16 at ISO 100. There are three AE modes available in the program mode. Follow the steps below to select your desired AE mode:

1. Rotate the mode dial to [**P**] Program mode.
2. Press the  **OK/Menu** button.
3. Use the  and  buttons to select **AE Mode** option.
4. Use the  and  buttons to select the desired setting.



ICON	AE Mode	Description
	Normal	Normal shutter speed.
	Action	Faster shutter speed. To capture a moving subject.
	Creative	Slower shutter speed. To capture a still-life subject.

5. Press the  **OK/Menu** button to confirm the setting.



NOTE

- None of the AE mode icon will be displayed on the LCD monitor during previews.
- You may need to anchor the camera on a tripod when you select the creative AE mode.

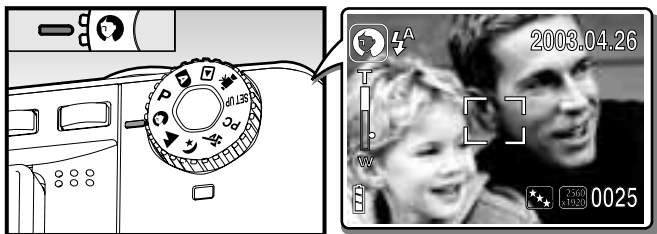
Scene Modes

The camera provides 4 scene modes, Portrait mode, Landscape mode, Night view mode, and Sports mode. Selecting the proper mode for your circumstance allows you to capture satisfying images.

[P] Photography in the Portrait Mode

In the Portrait mode, the camera will highlight the subject sharp and clear, while fading out the background.

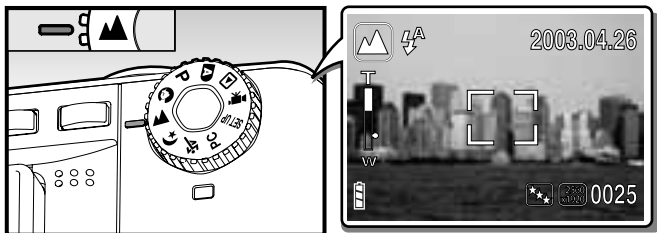
1. Turn the camera on.
2. Rotate the mode dial to [P] Portrait mode.
3. Compose your picture in the viewfinder.
4. Press the shutter button down halfway to set exposure and focus, then press it down fully to capture the image.



[L] Photography in the Landscape Mode

In the Landscape mode, the camera enables the photographer to capture panoramic, scenic views and distant objects.

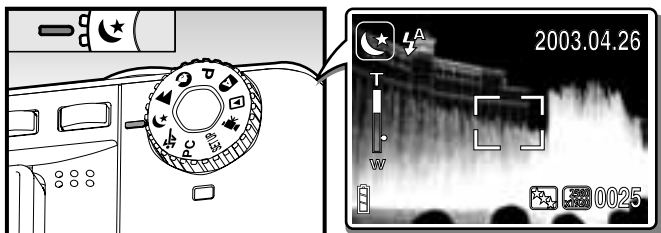
1. Turn the camera on.
2. Rotate the mode dial to [L] Landscape mode.
3. Compose your picture in the viewfinder.
4. Press the shutter button down halfway to set exposure and focus, then press it down fully to capture the image.



[🌙] Photography in the Night View Mode

Select the Night View mode to take images of people against a dusk or nighttime background.

1. Turn the camera on.
2. Rotate the mode dial to [🌙] Night View mode.
3. Compose your picture in the viewfinder.
4. Press the shutter button down halfway to set exposure and focus, then press it down fully to capture the image.



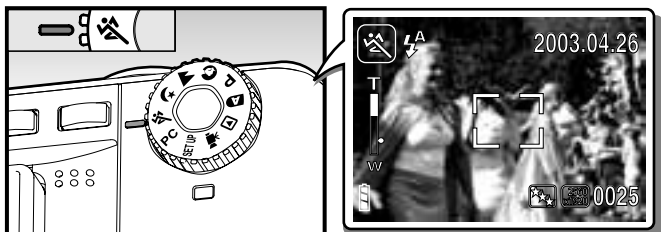
NOTE

- In this mode, the camera will automatically set a slow shutter speed. To avoid hand shaking and image blurring, you may need to anchor the camera on a tripod.

[🏃] Photography in the Sports Mode

Select Sports mode to take images of fast moving subjects.

1. Turn the camera on.
2. Rotate the mode dial to [🏃] Sports mode.
3. Compose your picture in the viewfinder.
4. Press the shutter button down halfway to set exposure and focus, then press it down fully to capture the image.



Shooting Movies

Recording Video Clips

The [] Movie-recording mode enables you to record video clips at a resolution of 320 X 240 pixels with audio via the camera's built-in microphone. The movie recordable time depends on the remaining space of the memory card.

1. Turn the camera on.
2. Rotate the mode dial to [] Movie mode.
3. Compose the movie clip.
 - The LCD monitor will display the possible recordable time.
 - The [] previewing icon will be displayed on the LCD monitor.
4. Press the shutter button down halfway and then press it fully down.
 - The video clip recording starts. The [] recording icon will be displayed on the LCD monitor.
5. To stop movie recording, press the shutter button all the way down again.



NOTE

- Flash and Shot Mode are unavailable during the Movie-recording mode.
- The camera will automatically stop recording under the below conditions:
 - When the memory card is full.
 - When battery power is at low level.
 - When the power button is pressed.

PLAYING BACK PHOTOGRAPHED IMAGES

In the playback mode, you can view, display and protect your images.

Viewing

You can either use the Quick view button in one of the record modes or go to playback mode to view the recorded images.

[Q-VIEW] Quick View

Pressing the [Q-VIEW] Quick View button in one of the following record modes allows you to display the most recently taken image: [] Auto mode, [**P**] Program mode, Scene mode [], [], [], [] or [] Movie mode.

- Press the **Quick View** button again to return to preview state.

Playing Back

After you have taken picture or recorded video clips, you can use the playback mode to review them. In this mode you can also perform various ways of displaying your image—thumbnail display, zoom playback, slide show display and display with image information.

Playing back Photographed Images (Single-Frame Playback)

Play back photographed still images one image at a time

1. Turn on the camera, and rotate the mode dial to [] Playback mode.

- The last recorded image appears on the LCD monitor.

2. Use the ◀ and ▶ buttons to view the image.

- ◀ button: Display the previous image.

- ▶ button : Display the next image.



NOTE

- If there are no images in the SD Memory Card, the message “**No Image**” [] will be displayed on the LCD monitor.
- You can also playback your images on a TV screen. First connect one end of the A/V cable to the A/V out terminal of the camera. Then connect the other end to the A/V input socket of your TV. Set the mode dial to Playback mode and then turn the TV and camera on.
 - Make sure to turn off the camera before connecting or disconnecting with the A/V cable.
 - Some brands of SD and MMC memory cards are not supported during movie recording, due to their low transmission rate.

Playing Back Video Clips

Video clips are indicated by the [] icon in the bottom right hand corner of the display in full screen playback. During movie playback, sound recorded with the movie is played back over the camera's built-in speaker.

To view a recorded video clip, follow the step below:

1. Turn on the camera, and rotate the mode dial to [] Playback mode.
 - The last recorded video clip is displayed on the LCD monitor.
 - The [] previewing icon will be displayed on the LCD monitor.
2. Use the ◀ and ▶ buttons to select the desired video clip.
3. Press the ▼ button to start video clip playback.
 - Press the ▶ button to fast forward; the ►► sign will appear in the top right-hand corner of the LCD monitor.
 - Press the ◀ button to fast rewind; the ◀◀ sign will appear in the top right-hand corner of the LCD monitor.
4. Press the ▼ button again to pause ■■ .
 - Press the ▼ button again to return to continue playback.
 - Press the ▶ button to go to the next frame, and the ◀ button to go back to the previous frame.
5. Press the ▲ button to stop video clip playback.



NOTE

- The zoom function cannot be activated in the video clip playback mode.
- To playback the video clip on the computer, we recommend that you use the "Quick Time Player". This software is free of charge, and is compatible for Mac and Windows based computers and can be downloaded from the Web site at www.apple.com. For Quick Time Player usage, please refer to its on-line help for more information.

Playback with the Remote Control

In Playback mode, you can use the remote control to advance the displayed image.

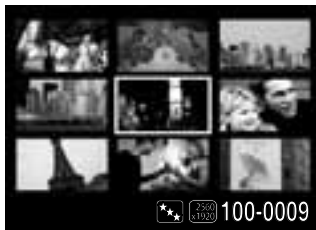
1. Rotate the mode dial to [] Playback mode.
 - The last recorded image appears on the LCD.
2. Press the remote control button to display the next playback image.

Displaying

Thumbnail Display (A List of Images)

This function allows you to view nine thumbnail images on the LCD monitor simultaneously and helps you select the particular image.

1. Turn on the camera and rotate the mode dial to [] Playback mode.
 - The last recorded image appears on the LCD monitor.
2. Press the  **W** button.
 - Nine images are displayed simultaneously.
3. Use the , ,  and  buttons to select the image for display.
4. Press the  **OK/MENU** button to display the selected image on full screen.



NOTE

- In thumbnail display, the [] movie icons distinguish movie data from still image data.

Zoom Playback

This function allows you to enlarge a specific portion of the image while reviewing it.

1. Turn on the camera and rotate the mode dial to [] Playback mode.
 - The last image frame appears on the LCD monitor.
2. Use the  and  buttons to select the **image** for enlargement.
3. Press the  **T** button to enlarge the image.
 - Toggle the **T** button to magnify the image from 2x to 3x to 4x.
4. Use the , ,  and  buttons to select a portion of the image to enlarge.
5. Press the  **W** **zoom** button to return to its normal size: 4x to 3x to 2x to normal.



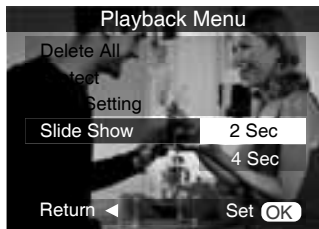
NOTE

- This function is unavailable in Movie mode.

Slideshow Display

The slideshow function enables you to playback your images automatically in a sequential order. This is a very useful and entertaining feature for reviewing recorded images and for presentation.

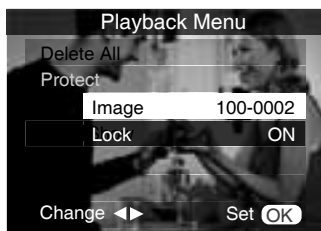
1. Turn on the camera, and rotate the mode dial to [] Playback mode.
 - The last frame appears on the LCD monitor.
2. Press the  **OK/Menu** button.
 - The menu screen appears.
3. Select **Slide Show** by using the  and  buttons.
4. Press the  button to enter the submenu.
5. Press the  and  buttons to select 2 seconds or 4 seconds slideshow time interval.
6. Press the  **OK/Menu** button to confirm the setting and start the slideshow display.
 - The slideshow display stops under the below conditions:
 - Press any button will stop the slide show.
 - The  **OK/Menu** button is pressed again during the slide show display.
 - The mode dial is rotated.
 - After 15 minutes.
 - The battery is weak.



Protect

This function can prevent accidental deletion of an image. Follow the steps below to set up the image protection.

1. Rotate the mode dial to [] **Playback** mode.
2. Press the  **OK/Menu** button.
■ The menu screen appears.
3. Select [**Protect**] by using the  and  buttons.
4. Press the  button to enter the submenu.
5. Use the  and  buttons to select the file number of an image for protection.
■ The selected image will be displayed on the screen.
6. Use the  and  buttons to select [**Lock**].
7. Use the  and  buttons to select [**ON**].
■ Select [**OFF**] to cancel the protection.
8. Press the  **OK/Menu** button to confirm the setting.
9. Press the  **OK/Menu** button again to exit the setting.



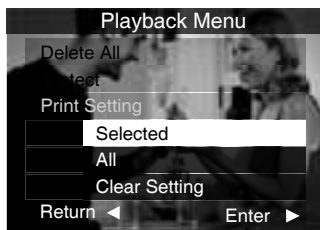
NOTE

- Card Formatting function will delete all images and video clips including the protected images.

Print Setting (DPOF)

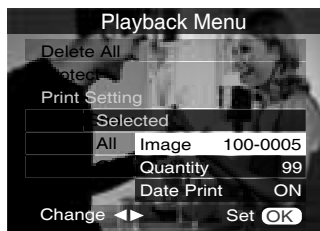
This function allows you to select the image, and quantity for printing.

1. Rotate the mode dial to [] Playback mode.
2. Press the  **OK/Menu** button.
3. Use the  and  buttons to select [**Print Setting**].
4. Press the  button to enter the [**Print Setting**] sub-menu.



For [**selected**] option:

5. Press the  button again to enter the [**selected**] sub-menu.
6. In the **selected** menu, choose the sub-menu item (**Image/Quantity/Date Print**) by using the  and  buttons.
7. Change the setting by pressing the  and  buttons, and then press the  **OK/Menu** button.
8. Press the  button to return to Playback menu and press the  **OK/Menu** button again to exit the menu.



Option	Description
Image	Select the image for print setting.
Quantity	Select the quantity 0-99 for print out.
Date Print	Select [ON] if you want the captured date to be printed out. Select [OFF] if you do not want to print out the captured date.

For [All] option:

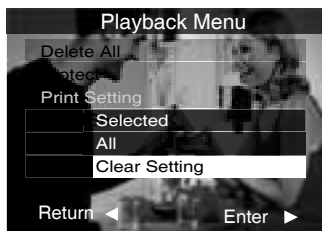
- Use the ▲ and ▼ buttons to select **[All]** and press the ► button to enter the **[All]** menu.
- In the **[All]** menu, choose the sub-menu item (**Quantity/Date Print**) by using the ▲ and ▼ buttons.

Option	Description
Quantity	Select the quantity 0- 99 for print out.
Date Print	Select [On] if you want the captured date to be printed Out. Select [Off] if you do not want to print out the captured date.

- Change the setting by pressing the ◀ and ▶ buttons, and then press the  **OK/Menu** button to confirm the setting.
- Press the ◀ button to return to **Playback** menu, and press the  **OK/Menu** button again.

**For [Clear Settings] Option:**

- Use the ▲ and ▼ buttons to select **[Clear Settings]**.
- Press the ► button to enter the **[Clear Settings]** menu.
- Use the ▲ and ▼ buttons to choose **[Yes]** or **[No]**.
[Yes]: Clear All Print settings.
[No]: Keep the Print Settings.
- Press the  **OK/Menu** button to confirm the setting.
- Press the ◀ button to return to **Playback** menu, and press the  **OK/Menu** button again to exit the menu.

**NOTE**

■ Print Setting is unavailable for movie data.

DELETING IMAGES

Deleting Images

You can delete the present image, a selected image, or all images at once. The function allows you to delete unwanted images and leave space for memory card.

Deleting the Present Image

In Record and Playback Modes:

You may use **Q-View** button to delete the most recent taken image or video clip in record mode:

- When the camera is set in one of the following modes:
 - **Record modes:** [**A**] Auto mode, [**P**] Program mode, Scene modes [**☀**], [**▲**], [**☾**], [**❄**], or [**🌊**] Movie mode.
- Press the **Q-View** button to view the most recent image taken.
- Press the  button to delete the current image or video clip.
 - The message “**Delete This Image?**” is displayed on the LCD monitor.
 - In [**▶**] Playback mode, you can use the ◀ and ▶ buttons to select an image or a video clip for deletion.
- Use the ▲ and ▼ buttons to select [**Yes**].
 - Choose [**No**] to cancel the deletion.
- Press the  **OK/Menu** button to confirm the setting.



DELETING IMAGES

Deleting Images

You can delete the present image, a selected image, or all images at once. The function allows you to delete unwanted images and leave space for memory card.

Deleting the Present Image

In Record and Playback Modes:

You may use **Q-View** button to delete the most recent taken image or video clip in record mode:

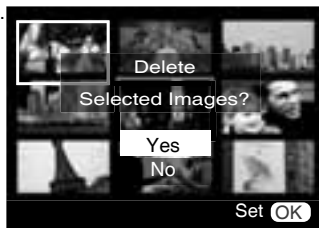
- When the camera is set in one of the following modes:
 - **Record modes:** [**A**] Auto mode, [**P**] Program mode, Scene modes [**☀**], [**▲**], [**☾**], [**❄**], or [**🌊**] Movie mode.
- Press the **Q-View** button to view the most recent image taken.
- Press the  button to delete the current image or video clip.
 - The message “**Delete This Image?**” is displayed on the LCD monitor.
 - In [**▶**] Playback mode, you can use the ◀ and ▶ buttons to select an image or a video clip for deletion.
- Use the ▲ and ▼ buttons to select [**Yes**].
 - Choose [**No**] to cancel the deletion.
- Press the  **OK/Menu** button to confirm the setting.



Deleting the Selected Image (Playback Mode)

You can select the image for deletion in playback mode.

1. Rotate the mode dial to [] playback mode.
2. Press the  **W** button.
 ■ Nine images are displayed simultaneously.
3. Use the , ,  and  buttons to choose the image.
4. Press the  button to select the image or video clip.
5. Press the  **OK/Menu** button.
6. Use  and  buttons to select [**Yes**].
 ■ Select [**NO**] to cancel the deletion.
7. Press the  **OK/Menu** button to delete the selected image.
8. Press the  **OK/Menu** button to exit.



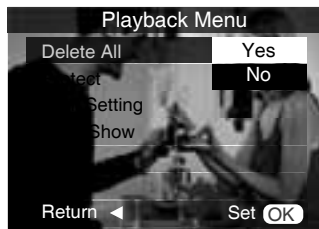
NOTE

- Images cannot be erased under the following two conditions:
 - When they are protected
 - When the SD memory Card is written-protected.

Deleting All Images/Video Clips

If you want to delete all the images at once:

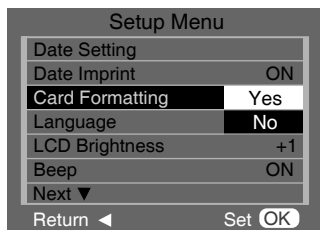
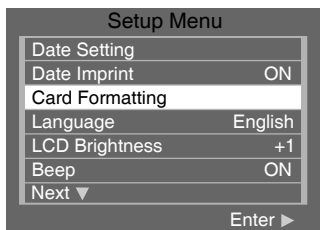
1. Rotate the mode dial to [] playback mode.
2. Press the  **OK/Menu** button.
3. Use the  and  buttons to select [**Delete All**].
4. Press the  button to enter the sub-menu
5. Use the  and  buttons to select [**Yes**].
 ■ Select [**No**] to cancel the deletion.
6. Press the  **OK/Menu** button to confirm the setting.
7. Press the  **OK/Menu** button again to exit the Playback menu.



Formatting the SD Memory Card

This function enables you to delete all the images in the SD Memory card permanently. Before formatting the SD card, make sure that all the images are unnecessary.

1. Rotate the mode dial to [**SETUP**] Set up mode.
2. Use the **▲** and **▼** buttons to select [**Card Formatting**].
3. Press the **▶** button to enter the sub-menu.
4. Use the **▲** and **▼** buttons to select [**Yes**].
 - Select [**No**] if you want to cancel the card formatting.
5. Press the **OK** **OK/Menu** button to confirm your setting.



NOTE

- Make sure that the memory card is inserted into the camera before you perform the Card Formatting function.
- If the SD Memory is locked, this function will be unavailable.
- If all images are deleted, the message “**No Image**” pops up in Playback mode

CONNECTING THE CAMERA TO ALL DEVICES

Transferring Recorded Images / Video Clips to Your Computer

You can share recorded images and movies with your family or friends via e-mail or post them on the Web. To do so, first connect the camera to your computer by using the USB cable, then load the files to your computer, or upload them directly to the Internet.

To transfer images/movies from the camera to your computer, follow these steps:

Step 1: Installing the USB driver

Step 2: Connecting the camera to your computer

Step 3: Downloading images/Video clip

System Requirements:

System Requirements	Windows	Macintosh
CPU	Pentium 166 MHZ processor or higher	Power PC G3/G4
OS	Windows 98/98SE/Me/2000/XP	OS 9.0 or higher
Memory	32MB(64 MB RAM recommended)	32MB(64 MB RAM recommended)
Free Space on Hard Disk	128MB hard disk space.	128MB hard disk space.
Required Device	A CD-ROM Drive, An Available USB Port	A CD-ROM Drive, An Available USB Port
Color Monitor	Color Monitor (800X600, 24-bit or higher recommended)	Color Monitor (800X600, 24-bit or higher recommended)

Installing the USB Driver

If your computer system belongs to Window98 , please install the USB driver on the CD-ROM.

If you are using Windows 2000/ME/XP, you may skip this step.



For Windows 98 computers

1. Insert the supplied CD-ROM that came with the camera into your CD-ROM drive.
 - The Welcome screen appears.
2. Click **"INSTALL USB DRIVER"** on the opening window.
3. Follow the on-screen instructions to complete the installation. After the USB driver has been installed, restart your computer.

For Macintosh computers

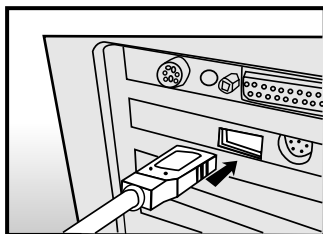
For Mac OS 9.0 or higher, the computer will automatically recognize the camera and load its own USB drivers.

- The camera does not support Mac 8.6, it is only compatible with Mac OS 9.0 or higher.

Connecting the Camera to Your Computer

When the camera is turned on and connected to your computer, it is considered to be a disk drive, just like a floppy disk or CD. You can download (transfer) images by copying them from the “**removable disk**” (“**untitled**“ disk on a Macintosh) to your computer hard drive.

1. Connect the flat end of the USB cable to an available USB port on the computer.
2. Connect the round end of the USB cable to the USB/A/V OUT Terminal on the camera.
3. Turn the camera on.



Downloading Images/Video Clips

For Windows Users

To download images and video clips to your computer:

1. Turn the camera on.
2. Rotate the mode dial to **PC** mode.
3. From the window desktop double click on **"My Computer"**, then double click "removable disk".
 - For Mac User, double click the "untitled" disk drive on the desktop.
4. Double click the **"DCIM"** folder and located the folder with your recorded image files.
5. Select the images/ video clips that you prefer and then choose **"Copy"** from the **"Edit"** menu.
6. Open a new folder on your computer and choose **"Paste"** from the **"Edit"** menu.



For Macintosh Users

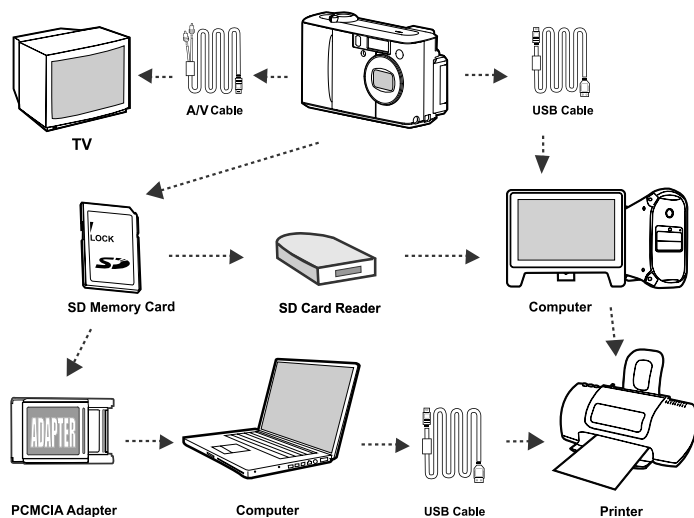
Double click the **"untitled"** or **"unlabeled"** disk drive icon, and create a new folder. Drag the selected files from the camera disk and drop them to the desired destination.



NOTE

- It is recommended that you use the AC power adapter as a power supply for the camera while transferring your images/ video clips from the camera to your computer to avoid accidental power off due to low battery power.
- The **auto power off function** is inactive during the PC mode.
- You may also use a memory card reader to download image files. (Highly recommended)

Connecting your camera to other devices



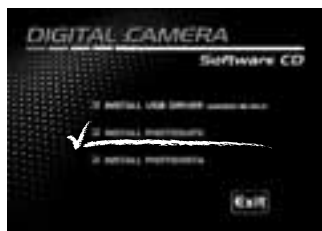
ABOUT YOUR SOFTWARE

Installing PhotoSuite

PC users will find that PhotoSuite is a very user-friendly image-editing program. With PhotoSuite, you can retouch, compose, and organize your images. It includes a variety of templates, such as photo frames, birthday cards, calendars and more. Get your images ready and explore this amazing program.

To install PhotoSuite:

1. Insert the CD-ROM packaged with the camera into the CD-ROM drive.
 - The welcome screen appears.
2. Click **"Install PhotoSuite"**. Follow the on-screen instructions to complete the installation.



NOTE

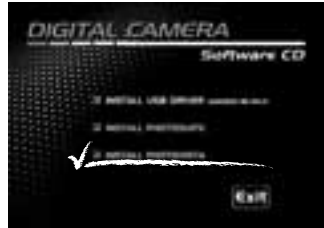
- To use PhotoSuite to edit and retouch your recorded images, please refer to the on-line help.
- For Windows 2000/XP users, please make sure to install and use the PhotoSuite in "Administrator" mode.
- Photo Suite is not supported on the Mac. iPhoto or iPhoto2 is recommended.

Installing PhotoVista

PC users will find that PhotoVista is an easy-to-use program that lets you create spectacular 360° panoramic images in a snap. When you view these panoramas, you get the experience of being totally immersed in a realistic environment. PhotoVista's powerful engine quickly and automatically stitches images together, and its intuitive interface will let even a novice get great results in minutes.

To install PhotoVista:

1. Insert the CD-ROM packaged with the camera into the CD- ROM drive. The welcome screen appears.
2. Click "Install PhotoVista". Follow the on-screen instructions to complete the installation.



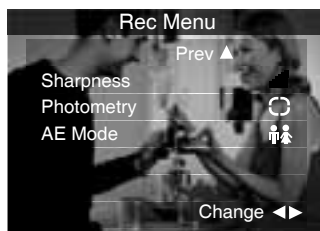
- To use PhotoVista to create spectacular 360° panoramic images, please refer to the on-line help for this software.
- For Windows 2000/XP users, please make sure to install and use the PhotoVista in "Administrator" mode.
 - The Mac does not support Photo Vista.
- Windows XP users who have not installed XP Service Pack 1, be sure to link to http://www.java.com/en/download/windows_automatic.jsp please download and install the Java Virtual Machine from the website. For more information about Java, please refer to its on-line help at <http://java.sun.com/getjava/help.html>. After this Java installation, you can install iSee Media PhotoVista.
- The computer system requirement for PhotoVista.
 - Windows 98, Windows NT 4 (Service Pack 3 or higher)
 - Windows 2000, Windows Me, Windows XP Service Pack 1 or higher

MENU OPTIONS

Record Menu

In the record modes [P],[Q],[M],[S],[A],[L],[P],[S],[P],[S], press the **OK/menu** button and you will see the following items: **Image Size, Image Quality, ISO, Exposure Compensation, White Balance, Color, Sharpness, Photometry, and AE mode.**

1. Rotate the mode dial to one of the following modes: [P],[Q],[M],[S],[A],[L],[P],[S],[P],[S]
2. Press the **OK/menu** button.
3. Use the **▲** and **▼** buttons to select the item.
4. Change the value of the selected item by pressing the **◀** and **▶** buttons.
5. Press the **OK/menu** button to confirm the setting and exit the menu.



Available Menu in Record Mode

Menu	Auto	Program	Portrait	Landscape	Night View	Sports	Movie
Size	O	O	O	O	O	O	X
Quality	X	O	O	O	O	O	X
ISO	X	O	O	O	O	O	X
Exposure	X	O	O	O	O	O	O
White Balance	X	O	X	X	X	X	O
Color	X	O	X	O	O	O	O
Sharpness	X	O	O	O	O	O	O
Photometry	X	O	X	X	X	X	X
AE mode	X	O	X	X	X	X	X

O Available

X Unavailable

Size

For detail, please refer to the section "Setting the still Image Size and Quality".

Quality

For detail, please refer to the section "Setting the still Image Size and Quality".

ISO

The ISO value represents the photographic sensitivity. To take high speed or low light photographs, select higher ISO values. For normal lighting conditions, select ISO 100 or 200.



ICON	Description
Auto (No icon will be displayed)	The camera will automatically adjust the photographic sensitivity according to the lighting conditions.
 400	High sensitivity especially designed for low light conditions.
 200	Average sensitivity, for normal lighting conditions.
 100	Low sensitivity especially designed for bright lighting conditions.



NOTE

- Images of higher ISO value might cause noise.
- During the movie record mode, ISO value is automatically set.

Exposure

For detail, please refer to the section "Selecting the Exposure Compensation (EV)".

White Balance

For detail, please refer to the section "Selecting the White Balance".

Color

Color options allow you to create special effect on the image taken.

Icon	Name	Description
	Vivid	The image colors will be emphasized to make the image more vivid.
	Normal	The standard color.
	Black/White	Select this when you want to create a monochrome.



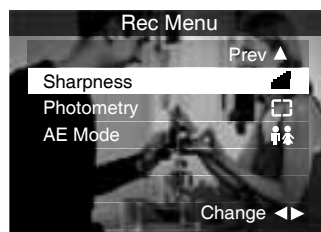
NOTE

- The color icon will not be displayed on the LCD monitor during recording modes.

Sharpness

This function enables you to enhance the edge detail, which is the visibility of a boundary between light and dark tones in an image. Adjust the setting to decide on the level of sharpening applied to an image.

Icon	Name	Description
	Sharp	This enables you to make the image boundary distinct.
	Normal	The standard sharpness.
	Soft	This enables you to soften the image boundary.



NOTE

- The sharpness icon will not be displayed on the LCD screen during recording modes.

Photometry

For detail, please refer to the section “Selecting the Photometry Mode”.

- Scene Modes and movie mode do not have photometry in the menu option.

AE Mode

For detail, please refer to the section “Selecting the AE Mode”.

- Scene Modes and movie mode do not have AE Mode in the menu option.

Playback Menu

In the [] **Playback mode**, press the  **OK/Menu** button, and you will see the following items: Delete All, Protect, Print Setting, and Slide Show.



Delete All

For detail, please refer to the section “Deleting Images”.

Protect

For detail, please refer to the section “Protect”.

Print Setting

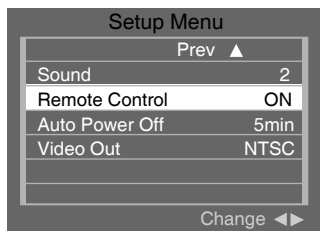
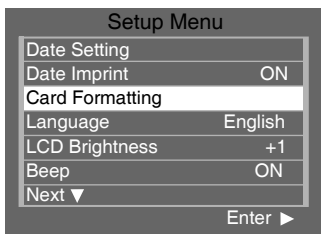
For detail, please refer to the section “Print Setting”.

Slide Show

For detail, please refer to the section “Slide Show”.

Set Up Menu

In the [**SETUP**] Set up mode, you will see the following items: **Date Setting**, **Date Imprint**, **Card Formatting**, **Languages**, **LCD brightness**, **Beep**, **Sound**, **Remote Control**, **Auto Power off**, **Video Out**.



Date Setting

For Detail, please refer to the section "Setting the Date and Time".

Date Imprint

For Detail, please refer to the section "Shooting with the Date inserted".

Card Formatting

For Detail, please refer to the section "Formatting SD Card".

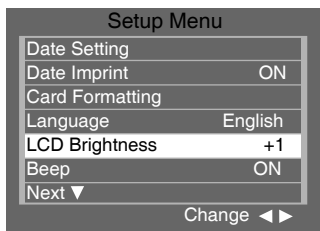
Language

For Detail, please refer to the section "Choosing the Language".

LCD Brightness

You can adjust the brightness of the LCD monitor by selecting the LCD brightness.

1. Rotate the mode dial to [**SETUP**] Set up.
2. Use the ▲ and ▼ buttons to select [**LCD Brightness**].
3. Press the ◀ and ▶ buttons to adjust the LCD brightness.
 - Press the ◀ button to darken the LCD monitor (-3 ~0).
 - Press the ▶ button to lighten the LCD monitor (0 ~3).
4. Change the mode dial to exit the **Setup** menu.



NOTE

- The LCD monitor's adjustment range from -3 to 3, in 1 step.
- The default value is 0.

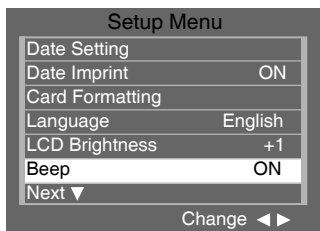
Beep

Set the beep sound of the camera during each operational step.

1. Rotate the mode dial to [**SETUP**] **Set up** mode.
2. Use the ▲ and ▼ buttons to select [**Beep**].
3. Use the ◀ and ▶ buttons to select **ON/OFF**.

[ON]: Turn on the beep setting.

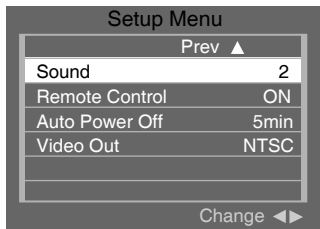
[OFF]: Cancel the beep setting.
4. Change the mode dial to exit the **Setup** menu.



Sound

Changing the sound volume.

1. Rotate the mode dial to [SETUP] Set up mode.
2. Use the ▲ and ▼ buttons to select **[Sound]**.
3. Use the ◀ and ▶ buttons to adjust the sound volume from 0 to 4.
4. Change the mode dial to exit the **Setup** menu.



Remote Control

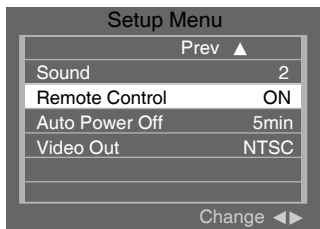
Set the remote control ON/OFF.

1. Rotate the mode dial to [SETUP] Set up mode.
2. Use the ▲ and ▼ buttons to select **[Remote Control]**.
3. Use the ◀ and ▶ buttons to select the desired setting:

[On]: Enable you to use the remote control.

[Off]: The remote control function is unavailable.

4. Change the mode dial to exit the **Setup** menu.



Auto Power off

When no operation is performed for a period of time, the camera will automatically turn off to conserve battery power. This setting allows you to decide the idle time of the camera before it turns off automatically.

1. Rotate the mode dial to [**SETUP**] **Set up mode**.
2. Use the **▲** and **▼** buttons to select [**Auto Power Off**].
3. Use the **◀** and **▶** buttons to select the desired setting:

[**1 min**]: Auto power off when no operation is performed for one minute.

[**2 min**]: Auto power off when no operation is performed for two minutes.

[**3 min**]: Auto power off when no operation is performed for three minutes.

[**5 min**]: Auto power off when no operation is performed for five minutes.

4. Change the mode dial to exit the **Setup** menu.



NOTE

- The camera will never auto-power off during PC mode and Movie Recording mode.
- For slide show display, the camera will automatically turn off if no operation is performed for 15 minutes.
- When using an AC adaptor, the camera will automatically turn off if no operation is performed for five minutes.



Video Out

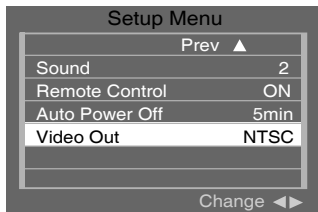
Set the video output format (**NTSC/PAL**) according to your country of residence

1. Rotate the mode dial to [**SETUP**] **Set up mode**.
2. Use the **▲** and **▼** buttons to select [**Video Out**].
3. Use the **◀** and **▶** buttons to select the desired setting.

[**NTSC**]: NTSC system.

[**PAL**]: PAL system.

4. Change the mode dial to exit the **Setup** menu.



- Only the Playback mode and the setup mode are available, when you try to display your images via a TV."

ADDITIONAL INFORMATION

Warning Messages

Warning Messages In Record Mode

ICON	Message	Description
	No SD Card	The message will show up when the card is not inserted into the camera.
	Record Error	The message will show up if errors occur during the Record mode.
	Protected Card	The message will show up if the card is written protected.
	Card Full	The message will show up when there is not enough space for further image storage.
	Unknown Card	The message will show up when the inserted card is unidentified.

Warning Messages In Playback Mode

Icon	Message	Description
	Unknown Card	The message will show up when the inserted card is unidentified.
	No SD Card	The message will show up when the card is not inserted into the camera.
	Playback Error	The message will show up if errors occur during the Playback Mode.
	No Image	The message will show up when there is no image in the SD memory card.

CAMERA SPECIFICATIONS

Items	Description
Image Sensor	1/1.76" CCD Total Pixel : 5.36 Mega pixels. Effective pixels:5.14 Mega pixels
LCD monitor	1.5" full color LTPS TFT LCD
Viewfinder	Real image viewfinder
Image Quality	Fine / Normal / Basic
Image resolution	Still Image resolution 2560 x 1920 pixels / 2048 x 1536 pixels 1280 x 960 pixels / 640 x 480 pixels Movie Image resolution 320x240 pixels
Image storage	SD Memory Card (up to 512MB), MMC(Multimedia Card).
Image file format	Still Image files: DCF2.0, DPOF1.1, EXIF2.21 Video File: M-JPEG
Lens	f = 8~24mm (Equivalent to 39~117 mm for 35mm Film camera) F: 2.8~4.9
Focus range	Macro : 0.5m ~ infinity (Tele) ; 0.1m ~ infinity (Wide) Normal:0.8m ~ infinity
Shutter speed	2 sec ~ 1/2000 sec
Digital zoom	Still record Mode: 1.1~3x Still image playback mode: 1x, 2x, 3x, 4x
Exposure compensation	± 2EV in 1/3 EV step
White balance	Auto/Day light/Cloudy/ Bluish fluorescent Reddish fluorescent/ Incandescent light
Flash	Auto/ Fill /OFF / Red Eye Reduction
Flash Effective range	0.5 ~ 2.5m
ISO sensitivity	100/200/400/Auto
Self-timer	2 sec/ 10 sec
Terminal	USB/AV OUT Terminal / DC IN 5V Terminal
Power supply	Lithium ion rechargeable, or AC adapter (5V, 2.0A)
Dimension (W x D x H)	96x41x60mm
Weight	Approx. 180g (without battery and memory card)

■ Design and specifications are subject to change without notice.