

## **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.

## **READ THIS FIRST**

1. The bundled driver, software, design, specifications and user's manual that were packaged with the camera are subject to change without notice.
2. The accessories that come with the camera may vary between regions.
3. For driver updates, you can check the "Download" section of our website, [www.geniusnet.com.tw](http://www.geniusnet.com.tw).
4. We are not liable whatsoever for any compensation arising from errors in descriptions in this user's manual.

## **WARNING**

- Do not use the camera if it is emitting smoke, becomes unusually hot to be touched, emitting any unusual odor or noise, or if it is in any other abnormal state. Operating the camera in any of these situations may cause a fire or an electrical shock. Stop using the camera immediately, turn the camera off, and then disconnect the power source (batteries or AC power adapter). If you are using the AC power adapter, unplug the adapter from the AC power outlet after you have disconnected the camera. After checking that smoke is no longer being emitted, contact your dealer or a local authorized service facility and request repairs. Never attempt to repair the camera yourself, as this will terminate the warranty.
- Do not use the camera if any foreign objects have entered the camera. Turn the camera off, and disconnect the power source (batteries or AC power adapter). If you are using the AC power adapter, unplug the adapter from the AC power outlet after you have disconnected the camera. Then contact 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.

- If the camera has been dropped or if the camera case has been damaged, turn the camera off, and then disconnect the power source (batteries or AC power adapter).  
If you are using the AC power adapter, unplug the adapter from the AC power outlet after you have disconnected the camera. Then contact 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 injury.
- Do not expose the camera to moisture and make sure that there is no 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. Your dealer should only carry out internal inspection, maintenance and repairs or a local authorized service facility.
- Do not touch the power plug during a thunderstorm if you are using the AC power adapter. This may cause an electrical shock.

## **CAUTION**

- 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 or the AC power adapter with a cloth or quilt. This may cause heat to build up and 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.
- Do not move the camera while it is switched on. (If you are using the AC power adapter, unplug the adapter from the AC power outlet after you have switched off the camera.) Ensure that any connector cords or cables to other devices are disconnected before moving the camera. Failure to do so may damage the cords or cables and cause a fire or an electrical shock.
- When leaving the camera unused for long periods, such as during a vacation, always remove the batteries from the camera or unplug it from the power source (AC power adapter) for safety. If you are using the AC power adapter, unplug the adapter from the AC power outlet after you have disconnected the camera. 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 batteries splitting or leaking and causing a fire, injury, or soiling of the battery compartment.
- When placing the batteries 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 batteries splitting or leaking and causing a fire, injury, or soiling of the battery compartment.
- Remove the batteries if the camera will not be used for an extended period of time. The batteries may leak and cause a fire, injury or soiling of the battery compartment. If the batteries leak, clean and wipe the battery compartment carefully and install new batteries. Wash your hands carefully if you touch the battery fluid.

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## **INTRODUCTION**

### **Overview**

Your new digital camera delivers high quality, 2304 x 1728 resolution images using a 4.0 Mega pixel CCD sensor. Using either the optical viewfinder or the 1.6" TFT color image LCD monitor, you can compose images and then examine them in detail. An auto-flash sensor automatically detects the shooting (lighting) conditions and determines whether the flash should be used. This feature helps ensure that your images turn out right.

The SD Memory Card is storage medium for saving images that you have photographed. Even if the camera's power is turned OFF, the images saved on the SD Memory Card are not erased. The SD Memory Card can be repeatedly read and written.

In addition to still images, you can record short videos using the movie function. Images you have taken can be downloaded to your computer using the USB cable (USB driver required for Win 98 and Mac OS 8.6) You can enhance and retouch your images on your computer by using the provided editing software, or image editing software you may already own. You may share your images with your friends via e-mail, in a report, or on a website.

DPOF functionality allows you to print your images on a DPOF compatible printer by simply

inserting the memory card.

## Package contents

---

Carefully unpack your package and make sure that you have the following items. In the event that any item is missing or if you find any mismatch or damage, promptly contact your dealer.

- |                             |                   |
|-----------------------------|-------------------|
| ■ Digital camera            | ■ USB cable       |
| ■ Video cable               | ■ Software CD-ROM |
| ■ User's manual             | ■ Camera strap    |
| ■ Quick guide               | ■ Camera pouch    |
| ■ 2 x AA alkaline batteries |                   |

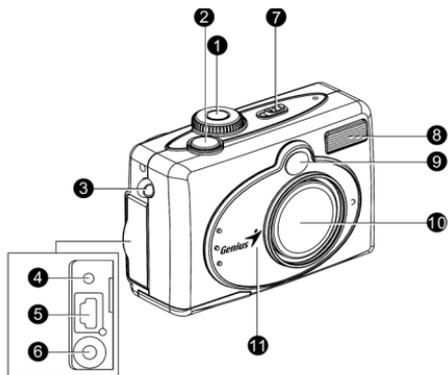
### Common (Optional) Accessories:

- SD memory card (up to 256MB capacity)
- AC power adapter

# GETTING TO KNOW YOUR CAMERA

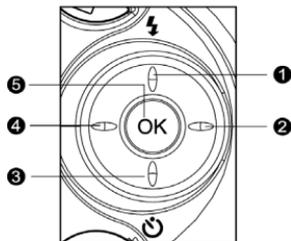
## Front view

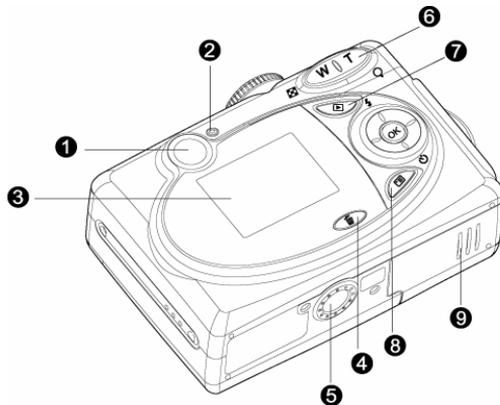
1. Mode dial
2. Shutter button
3. Camera strap
4. A/V OUT (Audio/Video Out) terminal
5. Digital terminal
6. DC-in connector
7. Power switch
8. Flash
9. Viewfinder window
10. Lens
11. Self-timer LED



## Rear view

1.  Arrow button (up)  
 Flash button
2.  Arrow button (right)
3.  Arrow button (down)
4.  Self-timer button
5.  Arrow button (left)
5. **OK** OK button





1. Viewfinder
2. LED indicator
3. LCD monitor
4.  Delete button
5. Tripod socket
6. **T** Zoom in button
-  Digital zoom button

**W** Zoom out button

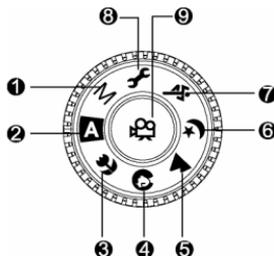
 Thumbnail button

7.  Playback button

8.  Menu button

9. Battery/SD card cover

## Mode dial



	Mode	Description
1.	<b>M</b>	Manual Mode Select this mode to set the aperture value and shutter speed values separately.
2.	<b>A</b>	Auto Mode Select this mode to a just "point-and-shoot" action.
3.		Macro Mode Select this mode to shoot a close-up of the subject.
4.		Portrait Mode Select this mode to make people stand out with the background out-of-focus.
5.		Landscape Mode This mode is used when the distance to the subject is between 1.9m and infinity.
6.		Night Scene Select this mode to take photographs of people

	Mode	against a dark or nighttime background.
7.	 Sports Mode	Select this mode to capture fast-moving subjects.
8.	 Setup Mode	Select this mode to adjust the camera settings.
9.	 Movie Mode	Select this mode to record video (movie) clips.

## LED indicators

Indicator	Status	Description/Activity	Sound
LED Indicator	Solid red	The camera is powering up.	No
LED Indicator	Solid green	The camera is powered and ready	Yes *(1)
LED Indicator	Blinking red	Camera error	Yes *(3)
LED Indicator	Blinking red	Charging the flash	No
LED Indicator	Blinking green	Image is being recorded to the memory card	No
LED Indicator	Blinking green	USB communication/transfer in progress	No
LED Indicator	Solid green	The camera is ready to record images (or movies)	Yes *(1)

Self-timer Indicator	Blinking red	The self-timer function is activated.	Yes *(1)
—	—	Error message	Yes *(3)
—	—	Valid button event	Yes *(1)

\*(1) The camera sounds one beep.

\*(3) The camera sounds three beeps.

## LCD monitor information

These indicators are displayed when recording still images:



## 1. Exposure mode

	Manual Mode
	Auto Mode
	Macro Mode
	Portrait Mode
	Landscape Mode
	Night Scene Mode
	Sports Mode
	Setup Mode
	Movie Mode

## 2. Image size

	2304 x 1728 pixels
	1600 x 1200 pixels
	1280 x 960 pixels
	640 x 480 pixels

## 3. Image quality

	Super fine
	Fine

 Normal

## 4. Saturation

	High
	Medium
	Low

## 5. Sharpness

	High
	Medium
	Low

## 6. White balance AUTO

	Daylight
	Cloudy
	Sunset
	Tungsten
	Fluorescent

**7. ISO AUTO**

100  
200  
400

**8. Flash mode**

- [] Auto flash
- [] Red-eye reduction
- [] Fill flash (on)
- [] Flash off

**9. Color**

- [] Full color
- [] Black and White

[] Sepia

**10. Card indicator****11. Remaining pictures****12.  Adapter indicator**

Battery level

- [] Full battery power
- [] Medium battery power
- [] Virtually no battery power

### 13. EV compensation

These indicators are displayed when recording video clips:

1. Movie mode
2. Recording indicator
3. Video counter
4. Battery level
5. Card indicator.



These indicators are displayed when playing images back:

1. Reverse Key
2. Card indicator
3. Forward Key
4. Print indicator
5. Image size
6. Date (year-month-day)
7. Current image/ total number of images
8. Battery level



These indicators are displayed when playing video clips back:

1. Reverse key
2. Battery level
3. Forward key
4. Current image number/ total number of images
5. Recorded time
6. Movie mode
7. Card indicator

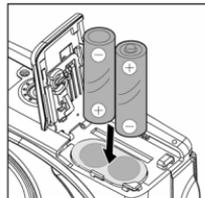


## GETTING STARTED

You can use either two AA size batteries (Alkaline, Ni-MH) or an AC power adapter (optional accessory) to power the camera. Battery power is convenient for recording images or video clips while the AC power adapter power is recommended for transferring images to your computer.

### Installing the batteries

1. Make sure the camera is off.
2. Slide the battery/SD card cover in the direction of the [OPEN] arrow.
3. Insert the batteries according to the correct polarity marks (+ or -).
4. Close the battery/SD card cover firmly.

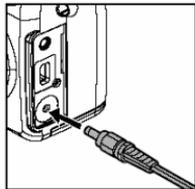


**NOTE**

- If you won't be using the batteries for an extended period of time, remove them from the camera to prevent any leakage or corrosion.
- Never use manganese batteries.
- Avoid using the batteries in extremely cold environments as low temperatures may shorten the battery life and reduce the camera performance.

## Using the AC power adapter (optional accessory)

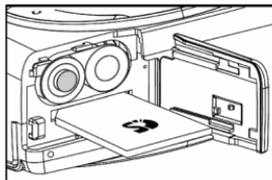
1. Make sure the camera is off.
2. Open the jack cover and connect one end of the AC power adapter to the DC IN jack on the camera.
3. Connect the other end to an electrical outlet.

**NOTE**

- Make sure to use only the AC power adapter specified for the camera. Damage caused by the use of an incorrect adapter is not covered under the warranty.
- To prevent unexpected auto power off resulting from no battery power left during the process of transferring your images to the computer, use the AC power adapter as a power supply.

## Loading an SD memory card (optional accessory)

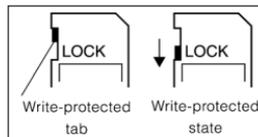
The camera comes with 11MB of internal memory, allowing you to store images and video clips in the camera. However, you can expand the memory capacity by using the SD memory card so that you can store additional images and video clips.



1. Make sure the camera is turned off.
2. Slide the battery/SD card cover in the direction of the OPEN arrow.
3. Insert the SD memory card.
  - The front side of the memory card (printed arrow) should face towards the front side of the camera.
  - If the card cannot be inserted, check the orientation.
4. Close the battery/SD card cover.
  - To remove the SD memory card, make sure the camera is off. Open the battery/SD card cover. Press lightly on the edge of the memory card and it will eject.

**NOTE**

- To prevent valuable data from being accidentally erased 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.

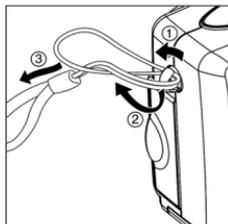


## Attaching the strap

To prevent accidental slippage during use, always use the strap.

■ Attach the camera strap as follows:

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



## Choosing the language

When you turn on the camera for the first time, the language setting screen appears, prompting you to choose a language for displayed information on the LCD monitor. Follow the steps below to set the OSD (On-Screen Display) language.

1. Select a language that you prefer by using the

▲ / ▼ button.

2. Press the **OK** button to confirm.



### NOTE

- The language setting will be retained even if the camera is turned off.



## Setting the date and time

The Date/Time screen will be presented if/when:

- The camera is turned on for the first time.
- The camera is turned on after removing the batteries/AC power adapter or replacing the batteries.

When the date and time setting screen appears, follow the steps to set the correct date and time.

You may skip this procedure by pressing EXIT.



1. Enter the values of the date and the time by using the ▲ / ▼ button. Press EXIT after all fields are set.

- To increase the value, press the ▲ button.
- To decrease the value, press the ▼ button.

## Setting the image resolution and quality

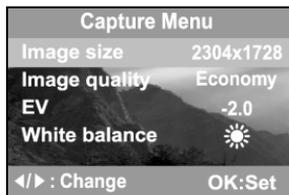
Resolution and quality settings determine the pixel size (dimension), image file size, and compression ratio for your image. These settings affect the number of images that can be stored in internal memory, or on an SD memory card.

Higher resolution and higher quality images offer the best photographic results but take up more memory space. High resolution/quality settings are recommended for printed output and situations requiring the finest detail. Lower resolution/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.

To change image resolution or image quality, perform the steps below:

1. Slide the **POWER** switch and turn on the camera.
2. Press the  button on the rear side of the camera.
3. Select Image size or Quality by using the  /  button.
4. Press **OK** button. Select the image size or image quality you prefer by using the  /  button.
5. Press **OK** to confirm. To exit the menu screen, press the  button.



The table below shows the approximate number of shots that you can take at each setting based on 16MB internal memory or an 8MB/16MB/32MB/128MB/256MB SD memory card.

Resolution	Quality	Compression ratio	16MB Internal Memory	8MB SD Memory Card	16MB SD Memory Card	32MB SD Memory Card	64MB SD Memory Card	128MB SD Memory Card	256MB SD Memory Card
2304x1728 	Fine	8:1	6	3	7	14	35	70	150
	Normal	12:1	10	5	12	24	55	115	225
	Economy	16:1	12	7	14	34	75	155	300
1600x1200	Fine	8:1	12	7	14	35	75	155	320
	Normal	12:1	18	11	25	55	115	240	480

	Economy	16:1	27	15	34	72	155	310	640
1280x960 	Fine	8:1	20	12	25	55	120	240	500
	Normal	12:1	30	18	38	85	180	370	740
	Economy	16:1	40	25	52	110	240	500	1000
640x480 	Fine	8:1	60	32	68	150	310	650	1350
	Normal	12:1	90	50	105	225	460	1000	2000
	Economy	16:1	120	66	140	300	620	1300	2650

\* The above data shows the standard testing results. The actual capacity varies according to the shooting conditions and settings.

## TAKING PHOTOGRAPHS

### Basic Setting

Your camera is equipped with both an optical viewfinder and a 1.6" full color TFT LCD monitor to compose images. Taking images by using the optical viewfinder will conserve more battery power. If your batteries' level is in low condition, it is recommended to compose images by using the viewfinder. The LCD monitor can help you accurately compose the pictures and examine all the details, but using it may also consume more battery power. However, always use the LCD monitor for MACRO shots to avoid parallax effects.

#### Using the viewfinder

Using the viewfinder helps you to compose images and adjust the subject in the focus.

1. Turn the camera on by sliding the **POWER** switch.
2. Set the mode dial base on the desired scenery (Manual, Auto, Macro, Portrait, Landscape, Night Scene or Sports).
3. Compose your picture in the viewfinder.
4. Press the shutter button.

■ The LED indicator blinks green while the camera is processing a captured image.

## Using the LCD monitor

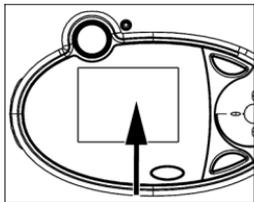
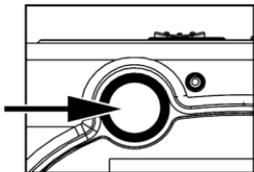
Using the LCD monitor can help you to confirm an image while taking pictures, to replay recorded images/video clips or to adjust menu settings. The mode icons, text and numbers that are displayed on the LCD monitor may vary according to the current settings.

1. Turn the camera on by sliding the **POWER** switch.
2. Set the mode dial base on the desired scenery (Manual, Auto, Macro, Portrait, Landscape, Night Scene or Sports).
3. Compose your shot in the LCD monitor.
4. Press the shutter button.

■ The LED indicator blinks green while the camera is processing a captured image.



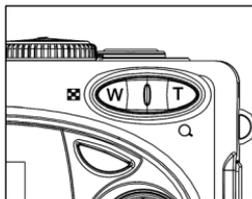
## NOTE



- In Capture mode, pressing the **OK** button will set the LCD **ON/OFF**.
- 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 conserve battery power and increase the number of shots you can take, it is recommended to turn the LCD monitor off and use the viewfinder instead.
- Always use the LCD monitor for **MACRO** shots.
- In [  ] Movie mode, the LCD monitor cannot be turned off.

## Using the Zoom Functions

The lens moves during the zoom photography. Zoom photography allows you to capture telephoto and wide-angle shots. By using the digital zoom, images can be closer by pressing the **(T)** telephoto button. Or appears smaller away by pressing the **(W)** wide-angle button.



To capture a digitally zoomed image, perform the following steps:

1. Turn the camera on by sliding the **POWER** switch.
2. Set the mode dial base on the desired scenery (Manual, Auto, Macro, Portrait, Landscape, Night Scene or Sports).
3. Press **T** button to activate the zoom function.

- Digital zoom range is from 1.25x to 4x (within 11 stages: 1.25x, 1.5x, 1.67x, 1.75x, 2x, 2.25x, 2.5x, 3x, 3.33x, 3.5x and 4x).
- To exit the digital zoom, press continuously the **W** button and return to the optical zoom status.

4. Press the shutter button to capture a "zoomed" image.



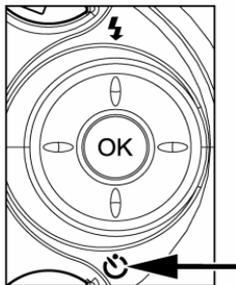
## NOTE

- You can only set the digital zoom at the resolution of 2304 x 1728 pixels; digital zoom is not available at the resolution of 1600 x 1200 pixels, 1280 x 960 pixels or 640 x 480 pixels.
- In Capture mode, zoom key is always active to zoom the lens between wide-angle and telephoto shots.
- Digital zoom cannot be used in [  ] Movie mode.

## Using the Self-Timer

By using the self-timer you can join into the screen when taking group shots. You can take pictures with the self-timer in any shooting mode (Manual, Auto, Macro, Portrait, Landscape, Night Scene or Sports).

The self-timer duration is 10 seconds. After the self-timer is set, the shutter automatically releases after 10 seconds. The self-timer lamp starts blinking



relatively slow for 7 seconds and then blinking rapidly for the last 3 seconds.

1. Secure the camera to a tripod or place it on a stable surface.
2. Turn the camera on by sliding the **POWER** switch.
3. Set the mode dial base on the desired scenery (Manual, Auto, Macro, Portrait, Landscape, Night Scene or Sports).
4. Compose the picture.
5. Press the  button.
  - The count down is displayed on the LCD monitor.
6. Press the shutter button.
  - To cancel the self-timer photography at any time, press the self-timer button to disrupt the sequence.



## **NOTE**

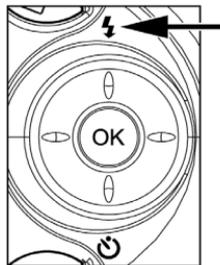
- In Capture mode, pressing the  button will set self-timer ON.
- After one shot is taken, the self-timer mode is turned to OFF.
- In self-timer mode, rotating the mode dial will change into Capture mode.
- In self-timer mode, pressing [  ] or [  ] will change into Capture mode.

## **Using the Flash**

The flash is designed to function automatically when lighting conditions warrant the use of flash. You can take an image using a suitable flash mode to your circumstances. If you change the flash mode, the camera will retain that setting even if the camera is turned off.

1. Turn the camera on by sliding the **POWER** switch.

2. Set the mode dial base on the desired scenery (Manual, Auto, Macro, Portrait, Landscape, Night Scene or Sports).
3. Press the  button located on the rear side of the camera repeatedly until your desired flash mode appears on the LCD monitor.
4. Compose the picture and press the shutter button.
  - The camera has four flash modes: Automatic Flash (default), Red-Eye Reduction, Fill Flash (on), and Flash Off. The modes appear cyclically when you press the  button on the rear side of the camera.



The table below will help to choose the appropriate flash mode:

Flash Mode	Description
[  ] Auto Flash	The flash fires automatically according to the ambient conditions. Select this mode for general photography.
[  ] Red-eye Reduction	The flash emits a precursor-flash before the main flash fires. This causes the pupil in the human eye to constrict, reducing the red-eye. Select this mode when taking pictures of people and animals in low-light conditions.

 Fill Flash on	The flash will always fire regardless of the surrounding brightness. Select this mode for recording images with high contrast (backlighting) and deep shadows.
 Flash off	The flash will not fire. Select this mode when taking images in a place where flash photography is prohibited, or when the distance to the subject is beyond the effective range of the flash.



## NOTE

- In  Macro mode and  Landscape mode, flash photography is not possible.
- In  Night Scene mode, flash photography is fixed to Fill Flash (on).

## Photography in a Variety of Modes

Your digital camera offers you choices of seven "scenes", which include Manual mode, Auto mode, Macro mode, Portrait mode, Landscape mode, Night Scene mode and Sports mode. In these modes, your camera setting can automatically be optimized for the selected subject's type, sparing you the trouble of adjusting the settings one-by-one.

Scene Mode	Description
[  ] Manual Mode	This mode is used to adjust to user's preferred conditions.
[  ] Auto Mode	This mode is used to simplify capturing procedures.
[  ] Macro Mode	This mode is used to shoot a close-up of the subject, such as flowers or insects.
[  ] Portrait Mode	This mode is used to make the main subject stands out precisely with the while the background details are out-of-focus.
[  ] Landscape Mode	This mode is used to enhance color, saturation shown in sky capes, mountains, forests and other landscape scenery, or to take portraits that feature a landmark in the background.
[  ] Night Scene Mode	This mode is used to capture human subjects against a dusk or nighttime background.
[  ] Sports Mode	This mode is used to capture fast moving subjects.



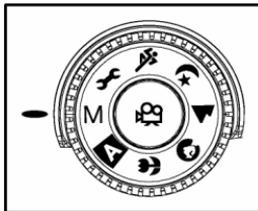
## NOTE

- In Capture mode, pressing the **OK** button will set the LCD monitor **On/Off**.

## Selecting the Manual Mode

You can capture images by manually adjusting conditions such as image quality, image size, saturation, sharpness, white balance, ISO speed, flash mode and EV compensation. For the above setting information, refer to the capture menu.

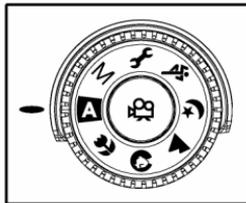
1. Turn the camera on by sliding the **POWER** switch.
2. Rotate the mode dial to **[M]**.
3. Press the  Menu button.
4. Set Image size, Image quality, EV, White balance, Color, Saturation and Sharpness by pressing  /  button and then press the **OK** button to confirm.
5. Compose the picture.
6. Press the shutter button down halfway to focus the image, then press it fully down.



## Selecting the Auto Mode

In this mode the camera adjusts the majority of the settings. Simply point the camera at the subject and then shoot.

1. Turn the camera on by sliding the **POWER** switch.
2. Rotate the mode dial to **[A]**.







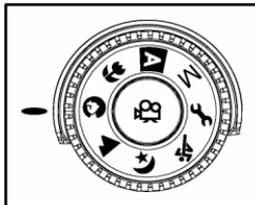
## NOTE

- When shooting a close-up in [  ] Macro mode, use the image LCD monitor to compose your shot, avoiding the off center parallax phenomenon.
- After a macro shot is taken DO NOT FORGET to reset the lens to the normal status.
- In [  ] Macro mode, the internal flash cannot be used.

## Selecting the Portrait Mode

Taking pictures by selecting the [  ] Portrait mode helps you to construct portraits in which the main subject stands out sharply and clearly against indistinct background's details. The effective range is between 0.4m and infinity.

1. Turn the camera on by sliding the **POWER** switch.
2. Rotate the mode dial to [  ].
3. Press the  Menu button.
4. Set Image size, Image quality, EV, White balance, Color, Saturation and Sharpness by pressing  /  button and then press the **OK** button to confirm.
5. Compose the picture.
6. Press the shutter button down halfway to focus the image, then press it fully down.





## NOTE

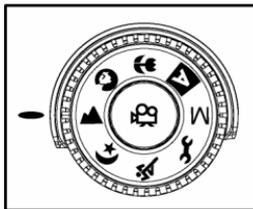
- In [  ] Portrait mode, ISO speed settings and EV compensation cannot be set.
- In [  ] Portrait mode, in a dusk or nighttime background, the Flash mode defaults to [  ] (automatically set to Red-Eye Reduction).

## Selecting the Landscape Mode

Taking pictures by selecting the [  ] Landscape mode helps you to capture vivid and expansive landscape pictures with the enhancement of image's color and saturation. The [  ]

Landscape mode is used when the distance to the subject is between 0.4m and infinity.

1. Turn the camera on by sliding the **POWER** switch.
2. Rotate the mode dial to [  ].
3. Press the [  ] Menu button.
4. Set Image size, Image quality, EV, White balance, Color, Saturation and Sharpness by pressing  /  button and then press the **OK** button to confirm.
5. Compose the picture.



6. Press the shutter button down halfway to focus the image, then press it fully down.



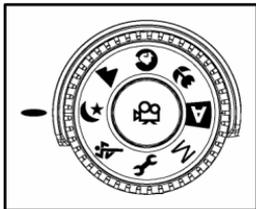
## NOTE

- In [▲] Landscape mode, ISO speed cannot be set and Flash mode defaults to [⊕] Flash Off.

## Selecting the Night Scene Mode

Capturing human subjects by using the [☾] Night Scene mode helps to provide a natural balance between the main subject and the background. The people in an evening sky or night scene are illuminated with lights from the flash while the background is captured at a slow shutter speed to prevent blurring and let both (people and the background) appear according to the exposure.

1. Turn the camera on by sliding the **POWER** switch.
2. Rotate the mode dial to [☾].
3. Press the [☰] Menu button.
4. Set Image size, Image quality, EV, White balance, Color, Saturation and Sharpness by pressing ▲ / ▼ button and then press the **OK** button to confirm.
5. Compose the picture.
6. Press the shutter button down halfway to focus the image, then press it fully down.





## PLAYBACK MODE

In  mode, you can view, magnify, delete images, play video clips, or run a slide show. Playback mode also provides a thumbnail image display, allowing you to quickly scan for the image you want.



### NOTE

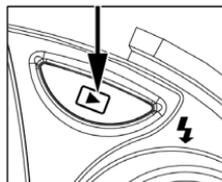
- In Playback mode, pressing the  Playback button or rotating the mode dial will change into Capture mode.
- In Playback mode, pressing the shutter button will change into Capture mode and automatically take the current image.

## Viewing Images

You may view your recorded images on the LCD monitor by pressing the  button.

1. Turn the camera on by sliding the **POWER** switch.
2. Press the  button, and then press the menu button and the playback menu displays on the screen.
3. View and select your recorded images by using the  button.

- To view the previous image, press the  button.



- To view the next image, press the  button.
- Through the LCD monitor, the screen also displays the detailed information of the captured image, such as print indicator, image size, date, current number of the image, total number of the images and the battery level.
- The print icon only appears on the LCD monitor when the image is set to print out.
- The recorded time only appears on the LCD monitor, when it is recoded by using [  ] movie mode.



## NOTE

- If there is no image stored in the internal memory or the memory card, an indication of “No image” will appear on the LCD monitor.
- You can also view your images on a TV screen. Connect one end of the video cable to the video out jack of the camera and connect the other end to the video input of your input of your TV. Press the  button and then turn on TV or camera.

## Zoom Playback

While reviewing your images, you may enlarge a selected portion of an image. This magnification allows you to view fine details.

1. Turn the camera on by sliding the **POWER** switch.

- Press the  button.
- View and select your recorded images by using the  /  button.
- To zoomed the image press the [T] button.
  - Digital zoom in the playback mode can magnify up to 6x.
- To return to the regular display from 6x status, keep pressing the [W] button and it will change into thumbnail images.



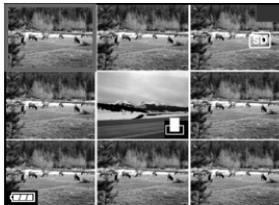
## NOTE

- When you zoom the maximum portion of the selected image, the  /  /  /  keys will disappear.

## Displaying Thumbnail Images

This function allows you to view nine thumbnail images on the LCD monitor simultaneously so that you can quickly scan for a particular image.

- Turn the camera on by sliding the **POWER** switch.
- Press the  button and then the  button.
  - Nine thumbnail images appear on the LCD monitor (assuming there are nine or more recorded images in the memory).



- To view a full-size image, press [T] the telephoto or **OK** button after the image selection by using the ▲ / ▼ / ◀ / ▶ button.



## NOTE

- While displaying thumbnail images, pressing the  delete button will cause the current chosen image to be deleted.
- While displaying thumbnail images, by pressing the  playback button, the screen will change to Capture mode and be ready to take next shot.

## Slide Show Display

The slide show function enables you to play your images back automatically in sequential order as a slide show. This is a very useful and entertaining feature reviewing recorded images, video clips and good for presentations.

1. Turn the camera on by sliding the **POWER** switch.
2. Press the  Playback button.
3. Then press the Menu button and select Slide show by using ▲ / ▼ button.
4. Press the **OK** button and to set the playback interval by using ▲ / ▼ button.
5. And then press the **OK** button again to confirm as your preference.



- The slide show starts, displaying your images on the LCD monitor one by one with the interval.
- To stop the slide show display, press the **OK** button or rotate the mode dial.



## NOTE

- You can adjust the slide show display interval within the range of 1 sec. to 10 sec. (1 sec. / 3 sec. / 6 sec. / 10 sec.)
- To not set the slide show display you may choose Exit. The slide show display defaults to 1 sec. intervals.

## Setting DPOF

DPOF (Digital Print Order Format) allows you to embed printing information on your memory card.

By using DPOF, you can select an image to be printed and then specify how many prints or which image you would like. Take your memory card to a DPOF enabled printer that accepts memory cards. The DPOF/card-compatible printer will read the embedded information on the memory card and print your images as specified.



### To set DPOF:

1. Turn the camera on by sliding the **POWER** switch.
2. Press the  Playback button.

3. Then press the  Menu button and select DPOF by using the  /  button.
4. Choose the option you prefer by using the  /  button and then press the  /  button to select quantity or image.

 The DPOF icon will appear on the DPOF-setting image.

### The DPOF menu options:

[Quantity]: select the image quantity from 0~9

[Set image]: allows you to select your preference image

[Exit]: to exit the screen.



### NOTE

- To print images from the internal memory, it is necessary to copy your images to the SD memory card first.
- The  print icon will also display on the LCD monitor to indicate images selected for printing.

## Deleting Images/Video Clips

To delete one image or video clip at a time, use the  button on the rear side of the camera.  
To delete all images or video clips at once, you may find this option in Playback menu.

■ To Delete One Image/Video Clip

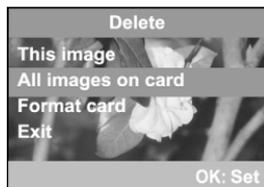
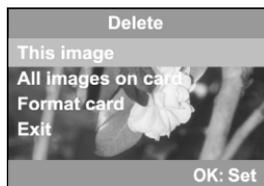
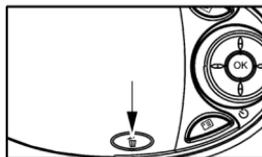
1. Turn the camera on by sliding the **POWER** switch.
2. Press the  button on the rear side of the camera to see the captured images and video clips.
3. Select the unwanted image/video clip by using the  /  button and then press the  button.
4. Continue the deletion if necessary.

■ If all images are deleted, [No image] will pop up.

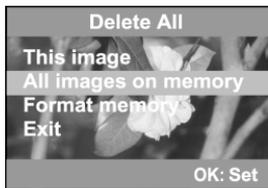
5. To exit this screen, rotate the mode dial.

■ To Delete All Images/Video Clips

1. Turn the camera on by sliding the **POWER** switch.
2. Press the  button on the rear side of the camera to see the captured images and video clips.



3. Then press the  button.
4. Select Delete by using the  /  button.
5. Press the **OK** button and then select [All images on card] by using the  /  button.
6. Press the **OK** button again to confirm.
  - After that, [No image] pops up. To exit the screen, press the  playback button,  menu button, or rotate the mode dial. The camera is ready to take the next image now or video clip.



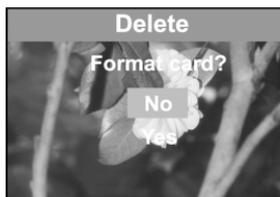
## NOTE

- To delete the images or video clips stored in the internal memory, the steps are the same as mentioned above. Be sure to remove the SD memory card first and the OSD screen will display as "All images on memory".
- The OSD message for deleting all images or video clips will display as "All images on card" or "All images on memory" based on your decision whether to delete information recorded in the card or in the internal memory.

## Formatting an SD card or Internal Memory

Using this option you may format the internal memory or the SD memory card.

To perform the format function, press the  /  and then press OK.



## NOTE

- To format the images or video clips stored in the internal memory, be sure to remove the SD card memory card first and the OSD screen will display as "Format memory?"

## Movie MODE

### Recording Video Clips

The movie mode allows you to record video clips at a resolution of 320 x 240 pixels.

- Turn the camera on by sliding the **POWER** switch.
- Press the  button.
  - The recording movie time, REC icon, the card indicator and the battery level will all display on the LCD monitor.
- You can start recording the video clip simply by



pressing the  button.

■ To stop the recording, press the  button.



## NOTE

- It is not possible to zoom in or zoom out while in the [] Movie mode.
- In movie mode, image size, image quality and self-timer's functions cannot be set or activated.
- In movie mode, the flash mode is automatically set to OFF.

## Viewing Video Clips

To view the recorded video clips, follow the steps below.

1. Turn the camera on by sliding the **POWER** switch.
2. Press the  button.
3. View and select your recorded video clips by using the  /  button.

■ While playing back the video clips, within 2 sec. the camera will automatically play the whole movie recording again.

■ While viewing the video clips, the  /  keys, the current image, recorded time will also indicated on the LCD monitor.



- To stop playback, press the **OK** button.
- To exit playback, press the  playback button or rotate the mode dial. Then the camera is ready to take the next shot or video clip.



## NOTE

- The zoom function cannot be activated while playing back the video clips.
- When playing back the video clips, the screen will also count down the recorded time.
- To play out the voice recorded in the video clips, you can use a video-compatible television connected via the supplied AV cable.
- PC connected with the USB cable can also play out the recorded voice in the video clip. Be sure to turn ON your speaker.

## TRANSFERRING RECORDED IMAGES TO YOUR COMPUTER

You can share recorded images/video clips with your family or friends via e-mail or post them on the Web. Before doing this, you need to connect the camera to your computer by using the USB cable and then transfer the images/video clips.

To transfer images/video clips from the camera to your computer, follow the steps below:

**Step 1:** Install the USB driver (only for Windows 98)

**Step 2:** Connecting the camera to your computer

**Step 3:** Downloading images/video clips

	<b>System requirements (Windows)</b>	<b>System requirements (Macintosh)</b>
CPU	Pentium 166 MHz processor or higher	PowerPC G3/G4
OS	Windows 98/98SE/Me/2000/XP	OS 8.6 or later
Memory	32MB RAM (64MB recommended)	32MB RAM (64MB recommended)
Free Space on Hard Disk	128MB hard disk space	128MB hard disk space
Required Devices	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)

## **Step 1: Installing the USB driver on Windows computers**

**The USB driver on the supplied CD-ROM is exclusively for Windows 98. Installing the USB driver on computers running Windows 2000/ME/XP is not necessary.**

1. Insert the CD-ROM packaged with the camera into the CD-ROM drive. The welcome screen appears.
2. Click "Install USB Driver". Follow the onscreen instructions to complete the installation. After the USB driver installation is complete, restart your computer.

## Installing the USB driver on Macintosh computers

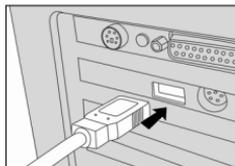
Mac OS 8.6 users must install a USB driver. For Mac OS 9.0 or higher, the computer will automatically recognize the camera and load its own USB drivers.

1. Insert the CD-ROM packaged with the camera into the CD-ROM drive.
2. Select and double-click "Digital Camera Driver Installer".
3. Select "Install Location" and click "Install".
4. Follow the on-screen instructions to complete the installation and restart your computer.

## Step 2: Connecting the camera to your computer

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1. Connect one end of the USB cable to an available USB port on your computer.
2. Connect the other end of the USB cable to the USB connector on the camera.
3. Turn the camera on.
4. Look for a new "Removable disk" icon appearing in the "My Computer" window. Your recorded images/video clips will be in a folder on this "removable disk". (For Mac users, double-click the "untitled" disk drive on the desktop.)



## Step 3: Downloading images/video clips

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When the camera is turned on and connected to your computer, it is considered as a disk drive,

just like a floppy disk or CD. You can download (transfer) images/video clips by copying them from the “removable disk” (“untitled” disk on a Macintosh) to your computer hard drive or to another kind of disk.

## **For computers running Windows**

Open the “removable disk” by double-clicking on it. Double-click on the folder that contains your recorded images/video clips. Select the images/video clips that you prefer and choose “Copy” from the “Edit” menu. After that, open the destination location and choose “Paste” from the “Edit” menu.

## **For computers running Mac OS**

Open the “untitled” disk window and the hard disk or the destination location. Drag and drop from the camera disk 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 any camera cut off unexpectedly if the batteries run out.
- Memory card users may prefer to use a memory card reader (highly recommended).

## INSTALLING PHOTOSUITE

PhotoSuite is a very user-friendly image-editing program. With PhotoSuite, you can easily retouch, compose and organize your images. It contains a variety of templates, such as photo frames, birthday cards, calendars and more.

Get your images ready and go explore this amazing program.

To install PhotoSuite

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



### **NOTE**

- For information on how to use PhotoSuite to edit and retouch your recorded images, please refer to its online help.
- For Windows 2000/XP users, make sure to install and use the PhotoSuite while logged in as a user with an Administrator account.
- PhotoSuite is not supported on the Mac.

## INSTALLING PHOTOVISTA

PhotoVista is an easy-to-use program that lets you create spectacular 360<sup>0</sup> 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.



### **NOTE**

- For information on how to use PhotoVista to create spectacular 360<sup>0</sup> panoramic images, please refer to its online help.
- For Windows 2000/XP users, make sure to install and use the PhotoVista while logged in as a user with an Administrator account.
- PhotoVista is not supported on the Mac.

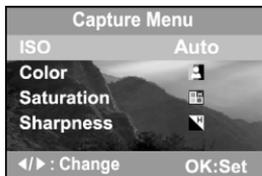
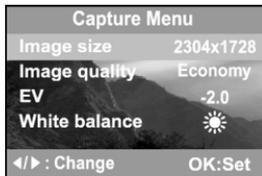


## MENU OPTIONS

### The Capture Menu

In the Capture menu, you can determine the conditions you would like to choose such as image size, image quality, EV compensation, white balance, ISO, color, saturation and sharpness.

1. Turn the camera on by sliding the POWER switch.
2. Set the mode dial base on the desired scenery (Manual, Auto, Macro, Portrait, Landscape, Night Scene or Sports).
3. Press the  button and then scroll through the options by pressing the  /  button.
4. After setting your preferences in the capture menu, press  or rotate the mode dial to go back to Capture mode.



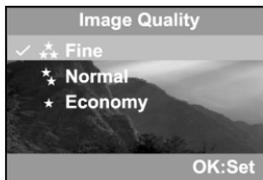
## Image size

Refer to Setting the Image Resolution and Quality.



## Image quality

Refer to Setting the Image Resolution and Quality.



## EV

Your camera adjusts the exposure for each scene automatically. However, when the subject is too dark or too bright, the camera adjusts the brightness or darkness. This is called EV compensation. The EV compensation of your camera can be adjusted from [-2.0 EV] to [+2.0 EV] (0.5 EV step). To select the EV compensation you wish, first press the OK button.



Then increase or decrease the EV compensation depending on what you need by using the ▲ / ▼ button and then press the OK button again to confirm.

## Effective Subjects and Set Values

### Positive (+) Compensation

- Copying of printed text (black characters on white paper)
- Backlit portraits
- Very bright scenes (such as snowfields) and highly reflective subjects
- Shots made up predominantly of sky

### Negative (-) Compensation

- Spot lighted subjects, particularly against dark backgrounds
- Imaging of printed text (white characters on black paper)
- Scenes with low reflectivity, such as shots of green or dark foliage



### NOTE

- In [  ] Portrait mode, the EV compensation cannot be set.

## White balance

When the brightness of the light changes, our eyes adapt to the difference so that the white object remains white. For digital still cameras, they can also see the white object as white by averaging the light around the subject.

The camera determines the white balance by averaging the various kinds of light that actually enters the lens. You may set in advance the white balance when taking photographs under specific lighting conditions (Auto, Daylight, Cloudy, Sunset, Tungsten and Fluorescent).

To set the white balance, first press the OK button. Then choose the appropriate white balance

setting you prefer by pressing the ▲ / ▼ button and then pressing the OK button again to confirm.

**[Auto]**

: automatically adjusting the white balance



[Daylight]

: for recording outdoors on a bright day



[Cloudy]

: recording for overcast, shaded, twilight or evening skies



[Sunset]

: for recording under sunset



[Tungsten]

: for recording under tungsten lighting condition



[Fluorescent]

: for recording under fluorescent lighting condition

**ISO**

The ISO speed decides the sensitivity to the lights. The higher the ISO number is, the more sensitive it is to the lights.

When recording under dark situations or recording fast movements, use a high-number setting.

However, while recording high quality images, we suggest you to use a low-number setting.

To set the ISO speed, first press the OK button. Then choose the appropriate ISO speed by pressing the ▲ / ▼ button and then press the OK button again to confirm.

[Auto] : adjusts the ISO speed automatically

[100] : equivalent to ISO 100

[200] : high-sensitive photography, equivalent to ISO 200

[400] : high-sensitive photography, equivalent to ISO 400



## NOTE

- In [  ] Portrait mode, [  ] Landscape mode and [  ] Sports mode, the ISO speed setting is not possible.

## Color

To capture an image, the camera offers three types of color (Full Color/Black and White/Sepia) for you to match as your wish. Your images will demonstrate different impressions by choosing different types of color.

To set the color, first press the OK button. Then

choose the appropriate color background Full (Color/Black and White/ Sepia) you prefer by pressing the  /  button and then pressing the OK button again to confirm.



## NOTE

- The color setting is not possible in [A] Auto mode.

## Saturation

To capture an image, the camera offers you three different degrees of color (High/Medium/Low) for you to match as you wish. Your images will give a different impression by choosing these different degrees of color. This is called Saturation.

To set the color, first press the OK button. Then choose the appropriate color saturation (High/Medium/Low) you prefer by pressing the ▲ / ▼ button and then pressing the OK button again to confirm.

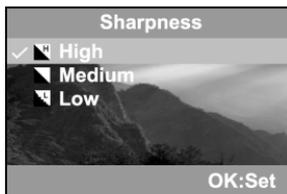


### NOTE

- The saturation setting is not possible in [A] Auto mode.

## Sharpness

The camera will automatically emphasize the borders between light and dark areas of the image. This will make the image's edges seem sharper. To set the Sharpness detail, first press the OK button. Then choose the appropriate sharpness degree (High/Medium/Low) you prefer by pressing the ▲ / ▼ button and then pressing the OK



button again to confirm.



## NOTE

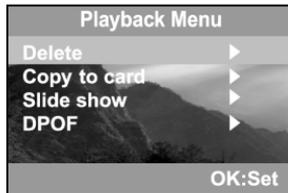
- The sharpness setting is not possible in [A] Auto mode.

## The Playback Menu

Use the Playback menu to transfer your recorded images/video clips to a memory card, or to create an on-camera slide show displaying or figure DPOF settings. You can also use the Playback menu to delete one or all images, to format the memory card or the internal memory and also record voice/sound if you prefer.

To access the Playback menu, press the  button

first and then press the  button. Scroll through the menu options by using the  /  button.



### Delete

Refer to "Deleting Images/Video Clips" in Playback Mode.

### Copy to card

This feature allows you to copy your images from the camera's memory card or the internal

memory. However, you can only do this when the memory card is installed and the internal memory contains images.

To perform this function, first press the **OK** button. Then select [No] or [Yes] by using the ▲ / ▼ button and press OK button to confirm. Showing the copying process a bar displays and the screen indicates "Copy to card".

## Slide show

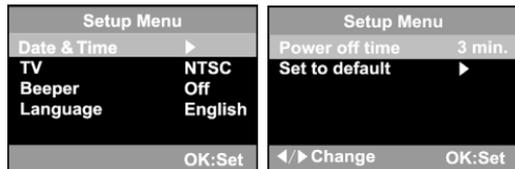
Refer to "Slide Show Display" in Playback Mode. (p. 43)

## DPOF

Refer to "Setting DPOF" in Playback Mode. (p. 44)

## The Setup Menu

You can select your preference for the camera settings in Setup mode. Rotate the mode dial to Setup mode and navigate to the option you wish to configure by using the ▲ / ▼ button.



## Date & time

Refer to "Setting the Date and the Time" in GETTING STARTED. (p. 19)

## TV

You can view your images on a TV. Remember to select the correct video output type according to where you are located. To set this option, first press the OK button. Then use the ▲ / ▼ button to select your TV receiving system [NTSC] or [PAL] and press the OK button to confirm.

[NTSC]: Select this format when located in the U.S.A., Canada, Japan, Korea, Taiwan, Central America, or Mexico.

[PAL]: Select this format when located in Australia, Belgium, China, Denmark, Finland, Germany, Great Britain, Holland, Italy, Kuwait, Malaysia, New Zealand, Norway, Singapore, Spain, Sweden, Switzerland, Thailand or Yugoslavia.

## Beeper

The camera makes a sound (beep) each time you press the camera button if this function is enabled.

Press the OK button.

Then select the beeper [Louder], [Soft] or [Off] by using the ▲ / ▼ button and then the OK button to confirm.

■ The camera defaults to [OFF].



## Language

This option allows you to select the language for the menus and the texts displayed on the LCD monitor. To set the language, refer to the section "Choosing the Language". (p.19)

■ The camera defaults to English.

## Power off time

If the camera remains unused for a certain period of time while the camera is powered on, the camera will switch to "idle" mode, and eventually turn itself off to conserve the power.

Inactivity period (Batteries)	Inactivity period (AC Power Adapter)	Camera Status
60 seconds	60 seconds	Stay idle
3 minutes	30 minutes	Shut off

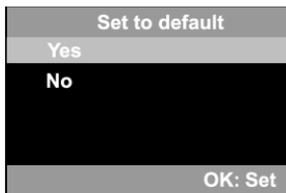
If the camera is idle, re-activate the camera by pressing any button or rotate the mode dial. If the camera has powered-off then you must turn the camera on again by sliding the POWER switch. To change the power saving interval when the camera is charging with batteries, first press the OK button. Then select the power-off interval you prefer by using the ▲ / ▼ button and then the OK button to confirm.

[3 min], [5 min], [10 min], [30 min], [OFF]

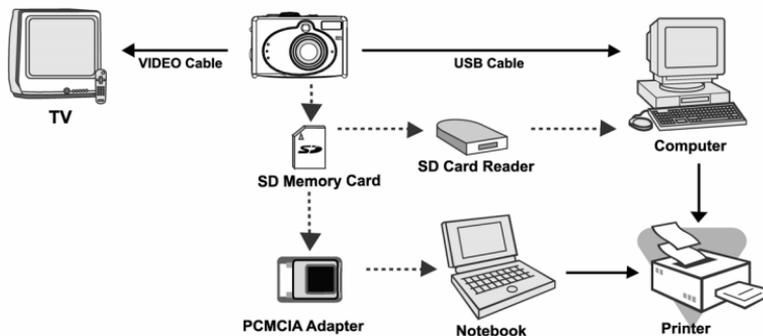
■ The camera defaults to [3 min].

### Set to default

If you wish to restore all camera settings to their original status, select this option and then press the OK button. Then select [No] or [Yes] by using the ▲ / ▼ button and then OK button to confirm.



## CONNECTING THE CAMERA TO OTHER DEVICES



## CAMERA SPECIFICATIONS

Item	Description
Image sensor	1/1.8" CCD
Image size	Still Image: 2304 x 1728 1600 x 1200 1280 x 960 640 x 480 Movie image: 320 x 240
Image quality	Fine Normal Economy
Recording media	16MB internal memory; SD memory card (optional)
Lens	Focal length: 7.8mm~23.44mm Focusing range: Wide---0.2m~infinity; Tele---0.4m~ infinity; F-number: 2.77~4.9
LCD monitor	1.6" color TFT LCD monitor
Self-timer	10-second delay
Zoom	Optical: 3X Digital: Capture mode:4X / Playback mode: 6X

Exposure compensation	Auto; Manual: -2.0 ~ +2.0EV (0.5EV step)
White balance	Auto; Manual: Daylight, Cloudy, Sunset, Tungsten, Fluorescent
Compressed format	JPEG, MPEG 1 Level I for video clip
Standards	JPEG, EXIF 2.1, DPOF 1.1, DCF 1.1, MPEG 1 Level I
Interface	DC IN jack, USB connector, VIDEO OUT jack (NTSC or PAL)
Operating environment	Operation: 0°C~40°C, 15%~90% humidity Storage: -20°C~60°C, 10~95% humidity
Power	2 x AA Alkaline batteries, 2 x AA Ni-MH batteries, AC power adapter
Tripod socket	Yes
Dimensions	95 x 64 x 36 mm (W x H x D) (without protruding parts)
Weight	Approx. 180g (without batteries and the SD memory card)

\*Design and specifications are subject to change without notice.