



CE STATEMENT

Products with the CE Mark comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN55022 (CISPR 22) Radio Frequency Interference
- EN50082 (IEC801-2, IEC801-3, IEC801-4) Electro-magnetic Immunity
- EN60950 (IEC950) Product Safety

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READ THIS FIRST

Please start by reading the important points below 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 contact our website "WWW.NYTECH.DE" for help.
4. We are not liable in any way for compensation arising from errors in descriptions in this user's manual.



FOR YOUR SAFETY

Warnings

- Do not use this camera if it is emitting smoke (or an unusual odor), becoming unusually hot to touch, making a peculiar noise, or exhibiting any other abnormal conditions. Operating the camera in any of these circumstances may cause a fire or an electric shock. Stop using the camera immediately, turn it off, remove the batteries, or disconnect the power source if you are using an AC power adapter. Contact your dealer or authorized service facility for repairs. Never attempt to repair this camera by yourself, as this may be dangerous.
- Do not expose the camera to moisture and make sure no water gets 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. Avoid using this camera in places subject to extreme moisture. Do not use the camera if water has entered it. Turn the camera off, remove the batteries, or disconnect the power source if you are using an AC power adapter. Unplug the adapter from the AC power outlet after you have disconnected the camera. Contact your dealer or authorized service facility. Do not continue to use the camera as this may cause a fire or an electric shock.
- Do not touch the power plug during a thunderstorm if you are using the AC power adapter. This may cause an electric shock.
- Do not use if any foreign objects have entered the camera. Turn the camera off, remove the batteries, or disconnect the power source if you are using an AC power adapter. Unplug the adapter from the AC power outlet after you have disconnected the camera. Contact your dealer or authorized service facility. Do not continue to use the camera as this may cause a fire or an electric shock.
- Do not place the camera in an unstable location such as on a wobbly table or sloping surface where the camera may fall or tip over and cause injury. If the camera has been dropped or damaged, turn the camera off and remove the batteries or AC power adapter. Contact your dealer or authorized service facility. Do not continue to use the camera as this may cause a fire or an electric shock.

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FOR YOUR SAFETY

Warnings

- Do not attempt to modify this camera. Do not remove the camera casing. This may cause a fire or an electric shock. Internal inspection and repairs should only be carried out by an authorized service facility.
- Never operate this camera while driving a vehicle. This may cause a traffic accident.
- Do not cover or wrap the camera or the AC power adapter with a cloth or blanket. 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.
- 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 electric shock.

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INTRODUCTION

Overview

Your new stylish digital camera delivers high quality, 2560 x 1920 resolution images using a 5.0 Megapixels CCD sensor. Using either the optical viewfinder or the 1.5" LTPS 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 every time.

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A 14MB internal (built-in) memory lets you capture and store images without the need for an additional memory card. However, you may wish to expand the memory capacity by using an external memory card.

In addition to still images, you can record short videos by using the movie function.

Images you have taken can be downloaded to your computer using the USB cable (a USB driver is 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 can 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 camera and ensure that you have the following items. In the event that any item is missing or if you find any differences or damage, promptly contact our hotline.

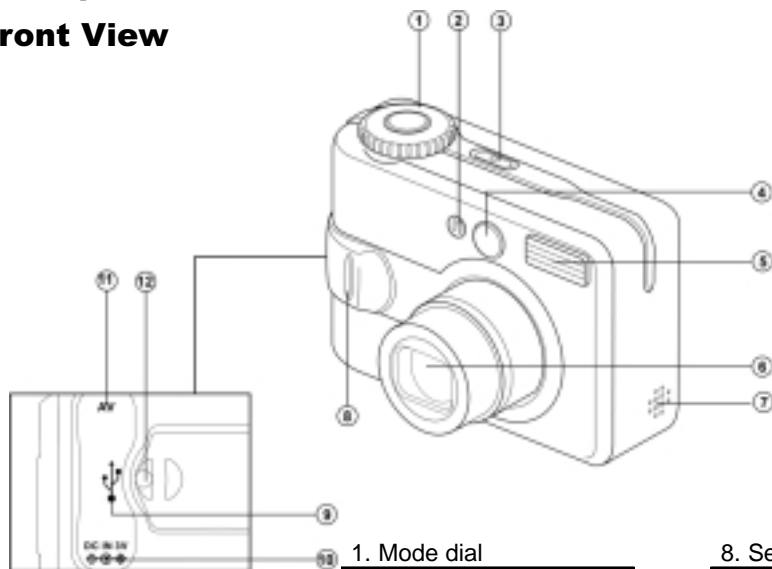
- Digital Camera
- User's Manual
- AC Power Adapter
- Rechargeable Batteries
- Camera Strap
- Checklist
- USB Cable
- Video Cable
- SD Memory Card
- Charger with the Instruction Manual
- Service Folder

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Components Guide

Front View



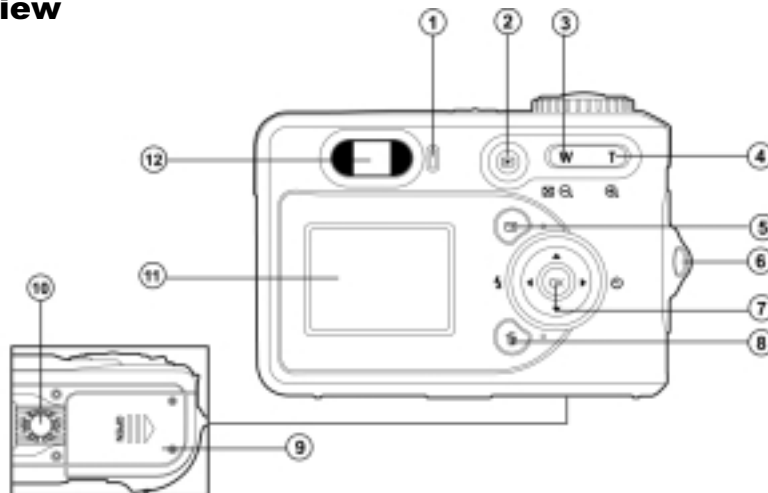
- 1. Mode dial
- 2. Microphone
- 3. Power button
- 4. Viewfinder window
- 5. Flash
- 6. Lens
- 7. Speaker

- 8. Self-timer LED
- 9. USB connector
- 10. DC IN jack
- 11. A/V (Audio/Video)
Out terminal
- 12. Strap eyelet



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Rear view



1. LED indicator

2.  Playback button
(Capture  Playback)

3. **W** /  Zoom out (wide-angle) button
 Thumbnail button

4. **T** /  Zoom in (telephoto) button

5.  Menu button

6. Strap eyelet

7. Control panel

8.  Delete button

9. Battery/SD Card cover

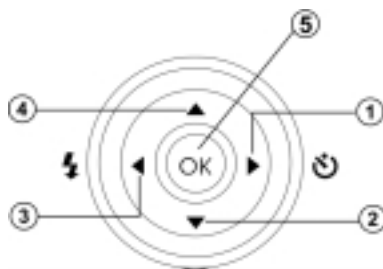
10. Tripod socket

11. LCD monitor


12. Viewfinder




Control Panel



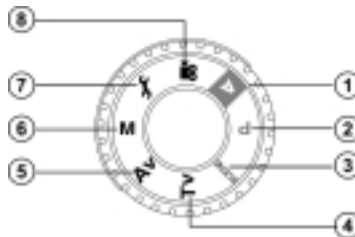
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- | | | |
|----|---|---|
| 1. | ▶ | Arrow button (Right) |
| | ⌚ | Self-timer button |
| 2. | ▼ | Arrow button (Down) |
| | | Aperture switch
(under Av/M mode) |
| | | Rotate the image 90° to the
right (under [] mode) |
| 3. | ◀ | Arrow button (Left) |
| | ⚡ | Flash button |

- | | | |
|----|-----------|--|
| 4. | ▲ | Arrow button (Up) |
| | | Scene mode switch
(under Scene mode) |
| | | Shutter speed switch
(under Tv/M mode) |
| | | Rotate the image 90° to the
left (under [] mode) |
| 5. | OK | OK button |



Mode Dial



	Mode	Description
1. [A]	Auto mode	Select this mode to adjust the “point-and-shoot” action.
2. [P]	Program mode	This mode permits the shutter speed and aperture to be set automatically whilst other factors are set manually.
3. [SCENE]	Scene mode	Select this mode to choose the right mode for the type of scene you want to capture.
4. [Tv]	Shutter Speed Priority mode	Select this mode to make people stand out against an indistinct background.
5. [Av]	Aperture Priority mode	Select this mode when you want your image(s) with aperture priority.
6. [M]	Manual mode	Select this mode to take still images with manual adjustments.
7. []	Setup Mode	Select this mode to adjust the camera settings.
8. []	Video mode	Select this mode to record video (movie) clips.



Viewfinder LED Indicators

Indicator	Status	Description/Activity	Sound
LED indicator	Solid red	The camera is powering up	Yes
LED indicator	Solid green	The camera is powered and ready	No
LED indicator	Blinking red	Camera error	Yes
LED indicator	Blinking red	Charging the flash	No
LED indicator	Blinking green	The 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
Self-timer indicator	Blinking Self-timer LED	The self-timer function is activated	No
----	Blinking red	Error message	Yes
----	----	Valid button event	Yes

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LCD Monitor Information

Capture Mode:



1. Mode indication






- [**A**] Auto mode icon
- [] Video mode icon
- [] Setup mode icon
- [**M**] Manual mode icon
- [**Av**] Aperture Priority mode icon
- [**Tv**] Shutter Speed mode icon
- Scene mode [] Landscape mode icon
- Scene mode [] Portrait mode icon
- Scene mode [] Sports mode icon
- Scene mode [] Night Scene mode icon
- Scene mode [] Backlight mode icon
- Scene mode [] Pan mode icon
- [**PRG**] Program mode icon

2. Zoom state





3. White balance

(no indication for auto white balance)

AUTO





- [] DAYLIGHT
- [] CLOUDY
- [] SUNSET
- [] TUNGSTEN
- [] FLUORESCENT

4. Flash mode

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



5. Image size

- [] 2560X1920
- [] 2048X1536
- [] 1280X960
- [] 640X480





6. [] Card indicator

7. [] Self-timer indicator

8. [] Histogram indicator

9. Remaining number of shots

10. Power supply






- [] Fully battery level
- [] Medium battery power
- [] Virtually no battery power
- [] Adapter indicator

11. Aperture priority indication





12. Shutter speed indication



13. Focus indicator (no indication for auto focus)

- [] AUTO
- [] MACRO
- [] 1M
- [] 3M
- [] INFINITY

14. Capture mode indicator (no indication for single image capturing)

- [] SINGLE
- [] MULTI
- [] BURST
- [] AEB

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Video Mode:

1. Zoom state
2. [SD] Card indicator
3. Power supply
 - [Full battery icon] Fully battery level
 - [Medium battery icon] Medium battery power
 - [Virtually no battery icon] Virtually no battery power
 - [Adapter icon] Adapter indicator
4. [Video mode icon] Video mode icon



Playback Mode: (Standard)

1. [SD] Card indicator
2. Forward key
3. [DPOF icon] DPOF icon
4. Current image number / total number of images
5. [Protect icon] Protect indicator
6. Power supply
 - [Full battery icon] Full battery level
 - [Medium battery icon] Medium battery power
 - [Virtually no battery icon] Virtually no battery power
 - [Adapter icon] Adapter indicator
7. [Voice memo icon] Voice memo
8. Reverse key










Playback Mode: (Detailed Information)

1. ISO speed
2. Shutter speed
3. Date
4. Image size
5. Flash mode
6. Aperture priority
7. File name



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Playback Mode: (Video Clips)

1. [] Card indicator
2. Power supply
 - [] Fully battery level
 - [] Medium battery power
 - [] Virtually no battery power
 - [] Adapter indicator
3. Recorded time





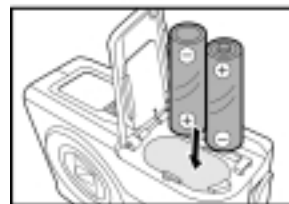
Preparing Your Camera

Installing the Batteries

Use 2 AA-size batteries (either Ni-MH or CR-V3) to power the camera. Battery power is convenient for capturing images or recording video clips.

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1. Make sure your camera is off.
2. Slide open the battery/SD card cover lock.
3. Insert the batteries according to the correct polarity marks (+ or -).
4. Close the battery/SD card cover lock firmly.



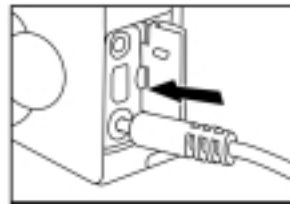
- New batteries or batteries that have not been used for an extended period of time (or batteries that have passed their expiry date) may affect the number of pictures that can be taken. To maximize their performance and lifetime, we recommend that you fully charge the batteries and discharge them for at least one complete cycle before use.
- Never use manganese batteries.
- Never use different types of batteries together or mix old and new batteries.
- Avoid using batteries in extremely cold environments as low temperatures will shorten the battery life and reduce the camera performance.
- Low temperature will influence Alkaline battery performance. A Ni-MH rechargeable battery is recommended.
- If you will not be using the batteries for an extended period of time, remove them from the camera to prevent leakage or corrosion.



Using an AC Power Adapter

You can also power your camera by using an AC power adapter. The AC power adapter is recommended for long periods of continuous use or for transferring images to your computer.

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



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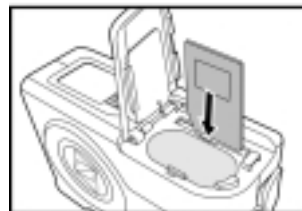


- Make sure you only use the AC power adapter specified for the camera. Damage caused by the use of an incorrect adapter is not covered under the warranty.
- To prevent unexpected auto power off resulting from no battery power during the process of transferring your images to the computer, use the AC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



Installing an SD Memory Card

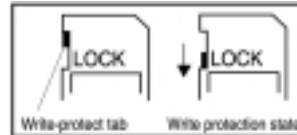
Your camera comes with 14MB of internal memory, allowing you to store images and video clips in the camera. However, you can also expand the memory capacity by using the SD memory card. An optional SD memory card provides removable, reusable storage for images and video clips.



1. Make sure your camera is off.
2. Slide open the SD card/battery cover lock.
3. Insert the SD memory card.
 - If the card cannot be inserted, check its orientation.
4. Close the SD card/battery cover lock firmly.

To remove an SD memory card

1. Make sure your camera is off.
2. Slide open the SD card/battery cover lock.
3. Press lightly on the edge of the memory card and it will eject.










- Memory cards may become hot during use; observe due caution when removing memory cards.
- To prevent valuable data from being accidentally erased from an SD memory card you can slide the write protect 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.
- To fully capture all the images you want, reformat your SD memory card first.
- Be sure to format your SD memory card on this camera before using it.
- Not all SD memory cards are compatible with this camera. We highly recommend using Panasonic, Toshiba and SanDisk memory cards to ensure good camera performance.

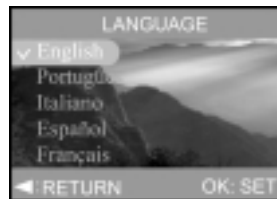


Setting the Language

When you turn on the camera for the first time, choose a language for displayed information on the LCD monitor.

Follow the steps below to set the OSD (On-Screen Display) language.

1. Set the mode dial to [].
2. Select "LANGUAGE" by using the  /  buttons, and press the  button.
3. Select the displayed language by using the  /  buttons, and then press the  button.
4. To exit the menu, change the mode dial setting.



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- The language setting will be retained even when the camera is turned off.
- The provided languages are [English], [Português], [Italiano], [Español], [Français] and [Deutsch].










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 the batteries/AC power adapter have not been used for a long time or after replacing the batteries.

When the date and time setting screen appears, follow these steps to set the correct date and time. You may also skip this procedure by selecting the **EXIT** option and pressing the  button.

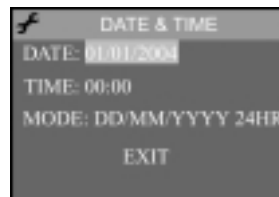
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1. Select the "DATE" or "TIME" option by using the  /  buttons and press the  button.
2. Select the item's field by using the  /  buttons and adjust the value for the date and time by using the  /  buttons.

The date default setting is set in the order day-month-year.

3. After confirming all settings are correct, press the  button.
4. Select the "MODE" option by using the  /  buttons and press the  button.
5. Select the "MODE" type by using the  /  buttons and press the  button.
6. Select "EXIT" by using the  /  buttons and press the  button.

The setting will be stored and the screen will return to the capture mode.

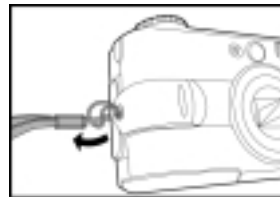


Attaching the Camera Strap

To prevent accidentally dropping the camera, always use the camera 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.

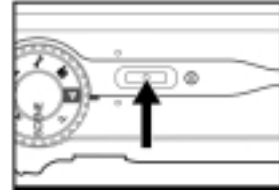




Basic Functions

Turning the Power On

1. Press the **POWER** button in the direction of the arrow.
 - The LED indicator lights red and the camera starts up.
 - With the lens opened  Photography mode
 - With the PC connected  PC mode



Turning the Power Off

With the power on, press the **POWER** button again to turn the camera off.





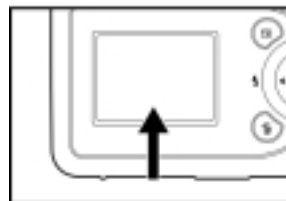
Using the LCD Monitor



Using the LCD monitor can help you to compose 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.

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1. Rotate the mode dial to your desired scene (Auto/Program/Scene/Tv/Av/Manual/Video) and power on your camera.
2. Compose your image in the LCD monitor.
3. Press the shutter button.



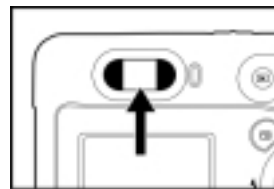
- In Capture mode, pressing the  button will set LCD Off and LCD On.
- Press **OK** button once to hide the OSD menu, press twice to turn the LCD off, press again to turn the LCD and OSD on.
- The LCD monitor darkens in strong sunlight or bright light. This is not a malfunction.
- Using the LCD monitor for an extended period of time will decrease the number of images you can take. To conserve battery power and therefore increase the number of pictures you can take, we recommend that you turn the LCD monitor off and use the viewfinder instead.
- In [] Video mode, the LCD monitor can be turned off. However, in Playback mode the LCD monitor cannot be turned off.
- The LCD monitor must be on when the **Digital Zoom** is to be used.



Using the Optical Viewfinder to Shoot

Your camera is also equipped with an optical viewfinder to compose images. Using the viewfinder helps you compose images and focus clearly on the subject. Taking images by using the optical viewfinder will conserve more battery power. We recommend that you use the viewfinder when the level of your batteries is low.

1. Rotate the mode dial to your desired scene (Auto/Program/Scene/Tv/Av/Manual/Video) and power on your camera.
2. Compose your image in the viewfinder.
3. Press the shutter button.
 - The LED indicator blinks green while the camera is processing a captured image.



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Adjusting the Zoom

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

1. Rotate the mode dial to your desired scene (Auto/Program/Scene/Tv/Av/Manual/Video) and power on your camera.


2. Compose your image by pressing the [**T**] telephoto button or the [**W**] wide-angle button.

- Press and hold the [**T**] telephoto button to the maximum position. Press the [**T**] telephoto button again to activate the digital zoom function.

- Toggle continuously the [**T**] telephoto button. The digital zoom's range is from 1.25x to 4x in 11 steps: 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, toggle continuously the [**W**] wide-angle button until it returns to the optical zoom status.




■ The digital zoom cannot be used in [] Video mode.



Using the Self-Timer / Interval Photography

This setting enables images to be taken with the [] self-timer and also interval photography.

The [] self-timer button can select the mode of capture between “Off” (default) and “Self timer” (5 seconds, 10 seconds, 10+2 seconds or Interval).


[5 SEC]: Your camera automatically takes a picture after a five-second delay.

[10 SEC]: Your camera automatically takes a picture after a ten-second delay.

[10+2 SEC]: Your camera automatically takes a picture after a ten-second delay, and takes another picture again after two seconds.

[Intv]: This feature allows images to be taken with settings of a fixed interval and number of image cycles. The image interval can be set at 1, 3, 10 or 60 minutes, and the number of image cycles can be set from 2 to 99.

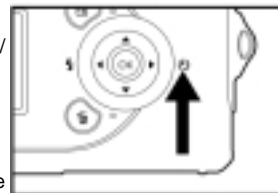
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1. Secure the camera to a tripod or place it on a stable surface.
2. Rotate the mode dial to your desired scene (Auto/Program/Scene/Tv/Av/Manual) and power on your camera.
3. Compose your image.
4. Press the [] self-timer button.

- The countdown is displayed on the LCD monitor.

- When you toggle the self-timer button, the following are displayed in the shown order:

Off  5 SEC  10 SEC  10+2 SEC  Intv
















5. Press the shutter button.

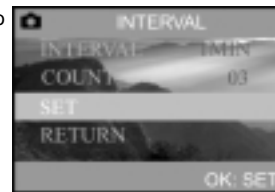
- To cancel the self-timer photography at any time, press the [] self-timer button to interrupt the sequence.

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To Use Interval Photography:

1. Set the mode dial to any one of the photography modes apart from Video mode.
2. Press the [] menu button.
3. Select "INTERVAL" by using the  /  buttons, and press the  button.
4. Select "INTERVAL" or "COUNT" by using the  /  buttons.
5. Select the desired setting by using the  /  buttons.
6. Select "SET" by using the  /  buttons, and press the  button.
7. To exit the menu, press the [] menu button.
8. Toggle the [] self-timer button to select "Intv".
9. Compose your image and press the shutter button.
 - During the interval between one photograph and another, the camera is in standby mode.





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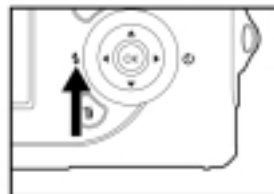


Using the Flash





The flash is designed to function automatically when lighting conditions warrant its use. You can take an image using a flash mode that most suits your circumstances.

1. Rotate the mode dial to your desired scene (Auto/Program/Scene/Tv/Av/Manual) and power on your camera.
2. Press the [] flash button located on the back of the camera repeatedly until your desired flash mode appears on the LCD monitor.

■ When you toggle the [] flash button, the following are displayed in the shown order:



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



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








3. Compose your image and press the shutter button.



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

Flash Mode	Description
[] Automatic flash	The flash fires automatically according to the environmental lighting conditions. Select this mode for general photography.
[] Red-eye reduction	The flash emits a precursory flash before the main flash fires. This causes the pupil in the eye to constrict, reducing the red-eye phenomenon. Select this mode when taking images 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.













- In [] Macro mode and [] Landscape mode, flash photography is not possible.
- In [] Night Scene mode, flash photography is fixed to [] Fill Flash (on).
- In [] Video mode, the flash cannot be set.



Photography Mode

Auto Mode []

When using [] Auto mode, the majority of the settings are adjusted by the camera. Simply point at the subject and shoot.

1. Rotate the mode dial to [] Auto mode and power on your camera.
2. Press the [] menu button.
3. You can change the settings by using the  /  buttons and then pressing the  button to enter the sub-menu. Select the desired setting by using the  /  buttons, and press the  button. To exit the menu, press the [] menu button again.



■ The provided capture menus are [IMAGE SIZE], [IMAGE QUALITY], [COLOR], [SATURATION], [SHARPNESS], [FOCUS], [QUICK VIEW], [HISTOGRAM], [CAPTURE MODE], [METERING], [SELF TIMER] and [INTERVAL].

4. Point the camera at your subject.
5. Press the shutter button.




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





- In [] Auto mode, [EV], [WHITE BALANCE] and [ISO] cannot be set.
- The original camera status is set as [] Auto mode.
- The scene setting will be retained even when the camera is turned off.



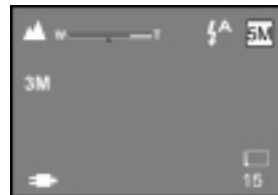
Scene Mode – Landscape []




Taking images by choosing the [] Landscape mode helps you capture vivid and expansive landscape pictures by enhancing the color and saturation of the image.

1. Rotate the mode dial to [**SCENE**] Scene mode and power on your camera.
2. Scene modes will display on the LCD monitor. Select [] Landscape mode by pressing the  button.
3. Press the [] menu button.
4. You can change the settings by using the  /  buttons and then pressing the  button to enter the sub-menu. Select the desired setting by using the  /  buttons, and press the  button. To exit the menu, press the [] menu button again.

■ The provided **capture menus** are [IMAGE SIZE], [IMAGE QUALITY], [COLOR], [SATURATION], [SHARPNESS], [FOCUS], [QUICK VIEW], [HISTOGRAM], [CAPTURE MODE], [METERING], [SELF TIMER] and [INTERVAL].


5. Point the camera at your subject.
6. Press the shutter button.













- In [] Landscape mode, [EV], [WHITE BALANCE] and [ISO] cannot be set.
- In [] Landscape mode, Flash mode is automatically set to [] Flash off.
- The scene setting will be retained even if the camera is turned off.
- Macro photography is not possible in the Scene mode.



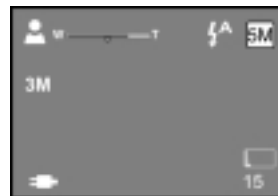
Scene Mode – Portrait []

Taking pictures by selecting the [] Portrait mode helps you to compose portraits in which the main subject stands out sharply and clearly against an indistinct background.

1. Rotate the mode dial to the [**SCENE**] Scene mode and power on your camera.
2. Scene modes will display on the LCD monitor. Select [] Portrait mode by pressing the  button.
3. Press the [] menu button.
4. You can change the settings by using the  /  buttons and then pressing the  button to enter the sub-menu. Select the desired setting by using the  /  buttons, and press the  button. To exit the menu, press the [] menu button again.




■ The provided capture menus are [IMAGE SIZE], [IMAGE QUALITY], [COLOR], [SATURATION], [SHARPNESS], [FOCUS], [QUICK VIEW], [HISTOGRAM], [CAPTURE MODE], [METERING], [SELF TIMER] and [INTERVAL].

5. Point the camera at your subject.
6. Press the shutter button.




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










- In [] Portrait mode, [EV], [WHITE BALANCE] and [ISO] cannot be set.
- In [] Portrait mode, with a dark or night-time background, Flash mode defaults to [] Red-eye reduction.
- The scene setting will be retained even if the camera is turned off.
- Macro photography is not possible in the Scene mode.



Scene Mode – Sports []




For dynamic action select [] Sports mode. This allows you to capture fast-moving objects.

1. Rotate the mode dial to [**SCENE**] Scene mode and power on your camera.
2. Scene modes will display on the LCD monitor. Select [] Sports mode by pressing the  button.
3. Press the [] menu button.
4. You can change the settings by using the  /  buttons and then pressing the  button to enter the sub-menu. Select the desired setting by using the  /  buttons, and press the  button. To exit the menu, press the [] menu button again.

■ The provided capture menus are [IMAGE SIZE], [IMAGE QUALITY], [COLOR], [SATURATION], [SHARPNESS], [FOCUS], [QUICK VIEW], [HISTOGRAM], [CAPTURE MODE], [METERING], [SELF TIMER] and [INTERVAL].


5. Point the camera at your subject.
6. Press the shutter button.













- In [] Sports mode, [EV], [WHITE BALANCE] and [ISO] cannot be set.
- In [] Sports mode, Flash mode is automatically set to [] Flash off.
- The scene setting will be retained even if the camera is turned off.
- Macro photography is not possible in the Scene mode.



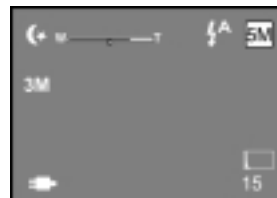
Scene Mode – Night Scene []

Capturing human subjects using [] Night Scene mode helps to provide a natural balance between the main subject and the background. People against an evening sky or night scene are illuminated with light from the flash while the background is captured at a slow shutter speed to prevent blurring, thus allowing both people and background to receive the correct amount of exposure.

1. Rotate the mode dial to [**SCENE**] Scene mode and power on your camera.
2. Scene modes will display on the LCD monitor. Select [] Night Scene mode by pressing the  button.
3. Press the [] menu button.
4. You can change the settings by using the  /  buttons and then pressing the  button to enter the sub-menu. Select the desired setting by using the  /  buttons, and press the  button. To exit the menu, press the [] menu button again.




■ The provided capture menus are [IMAGE SIZE], [IMAGE QUALITY], [COLOR], [SATURATION], [SHARPNESS], [FOCUS], [QUICK VIEW], [HISTOGRAM], [CAPTURE MODE], [METERING], [SELF TIMER] and [INTERVAL].

5. Point the camera at your subject.
6. Press the shutter button.




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- In [] Night Scene mode, [EV], [WHITE BALANCE] and [ISO] cannot be set.
- In [] Night Scene mode, Flash mode defaults to [] Fill flash (on).
- The scene setting will be retained even if the camera is turned off.
- Macro photography is not possible in the Scene mode.



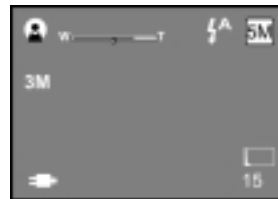
Scene Mode – Backlight []




Use the [] Backlight mode when the light is coming from behind your subject, casting shadows on their features, or when your subject is in the shade but the background is brightly lit.

1. Rotate the mode dial to [**SCENE**] Scene mode and power on your camera.
2. Scene modes will display on the LCD monitor. Select [] Backlight mode by pressing the  button.
3. Press the [] menu button.
4. You can change the settings by using the  /  buttons and then press the  button to enter the sub-menu. Select the desired setting by using the  /  buttons, and press the  button. To exit the menu, press the [] menu button again.

■ The provided capture menus are [IMAGE SIZE], [IMAGE QUALITY], [COLOR], [SATURATION], [SHARPNESS], [FOCUS], [QUICK VIEW], [HISTOGRAM], [CAPTURE MODE], [METERING], [SELF TIMER] and [INTERVAL].


5. Point the camera at your subject.
6. Press the shutter button.













- In [] Backlight mode, [EV], [WHITE BALANCE] and [ISO] cannot be set.
- In [] Backlight mode, Flash mode defaults to [] Fill flash (on).
- The scene setting will be retained even if the camera is turned off.
- Macro photography is not possible in the Scene mode.



Scene Mode – Pan []

Using the [] Pan mode fixes the focus so images can be taken quickly when the shutter button is pressed. Use Pan mode when you do not want to miss a shot, but you cannot predetermine the subject's position or the exact focal distance. The focal length is preset to the maximum wide angle setting.

1. Rotate the mode dial to [**SCENE**] Scene mode and power on your camera.
2. Scene modes will display on the LCD monitor. Select [] Pan mode by pressing the  button.
3. Press the [] menu button.
4. You can change the settings by using the  /  buttons and then pressing the  button to enter the sub-menu. Select the desired setting by using the  /  buttons, and press the  button. To exit the menu, press the [] menu button again.


■ The provided capture menus are [IMAGE SIZE], [IMAGE QUALITY], [COLOR], [SATURATION], [SHARPNESS], [FOCUS], [QUICK VIEW], [HISTOGRAM], [CAPTURE MODE], [METERING], [SELF TIMER] and [INTERVAL].

5. Point the camera at your subject.
6. Press the shutter button.





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







- In [] Pan mode, [EV], [WHITE BALANCE] and [ISO] cannot be set.
- The scene setting will be retained even if the camera is turned off.
- Macro photography is not possible in the Scene mode.



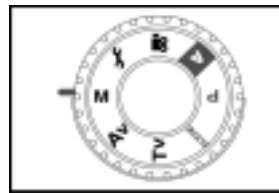
Manual Mode [M]



You can take pictures by manually adjusting the camera settings. The flash default setting for [M] Manual mode is [] flash off. For long period exposure photography, be sure to set the flash setting to [] flash off.

1. Rotate the mode dial to [**M**] Manual mode and power on your camera.
2. Press the [] menu button.
3. You can change the settings by using the  /  buttons and then pressing the  button to enter the sub-menu. Select the desired setting by using the  /  buttons, and press the  button. To exit the menu, press the [] menu button again.

■ The provided capture menus are [IMAGE SIZE], [IMAGE QUALITY], [COLOR], [SATURATION], [SHARPNESS], [FOCUS], [QUICK VIEW], [HISTOGRAM], [CAPTURE MODE], [EV], [WHITE BALANCE], [ISO], [METERING], [SELF TIMER] and [INTERVAL].


4. Point the camera at your subject.
5. Press the shutter button.




■ You can set the shutter speed by using the  button, and aperture value by using the  button.



Video Mode []

By using the [] Video mode you can record video clips at a resolution of 320X240 pixels or 160x120 pixels. Voice can also be recorded.

The provided video menus are [VIDEO SIZE], [VIDEO QUALITY] and [VIDEO COLOR].







1. Rotate the mode dial to [] Video mode and power on your camera.
2. You can start recording a video clip by pressing the shutter button. The elapsed time displays on the LCD monitor while recording a video clip.
3. To stop recording, press the shutter button again.



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Possible Recording Time/Seconds (Video Clip)

The table shows the approximate movie time that you can record at each setting based on 14MB internal memory or an optional SD memory card from 8MB to 512MB.

Image size	Quality	14 MB Internal memory	SD Memory Card						
			8 MB	16 MB	32 MB	64 MB	128 MB	256 MB	512 MB
320 x 240		0:00:24	0:00:11	0:00:24	0:00:50	0:01:44	0:03:30	0:07:00	0:14:06
		0:00:48	0:00:22	0:00:48	0:01:41	0:03:28	0:07:01	0:14:00	0:28:13
		0:01:36	0:00:44	0:01:37	0:03:22	0:06:56	0:14:03	0:28:01	0:56:27
160 x 120		0:01:36	0:00:44	0:01:37	0:03:22	0:06:56	0:14:03	0:28:01	0:56:27
		0:03:13	0:01:28	0:03:15	0:06:45	0:13:52	0:28:07	0:56:02	1:52:55
		0:06:27	0:02:57	0:06:30	0:13:31	0:27:44	0:56:14	1:52:05	3:45:50

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



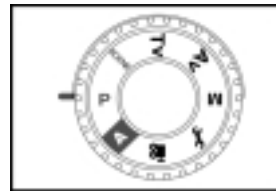
- In [] Video mode, the digital zoom cannot be activated; however, the optical zoom can be used while composing.
- Be sure not to cover the camera's microphone while recording video clips.



Program (Automatic Exposure) Mode [P]

Using the Program (Automatic Exposure) the camera automatically sets the shutter speed and the aperture to match the brightness of the scene.

The provided capture menus are [IMAGE SIZE], [IMAGE QUALITY], [COLOR], [SATURATION], [SHARPNESS], [FOCUS], [QUICK VIEW], [HISTOGRAM], [CAPTURE MODE], [EV], [WHITE BALANCE], [ISO], [METERING], [SELF TIMER] and [INTERVAL].





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1. Rotate the mode dial to [P] Program.
2. Power on your camera.
3. Compose your picture.
4. Press the shutter button.

Shutter Speed Priority Mode [Tv]

When you set the shutter speed mode, the camera automatically selects an aperture setting according to the amount of light in the image. Faster shutter speeds allow you to capture an instantaneous image of a fast-moving subject while slower speeds create a flowing impression and let you capture images without a flash in dark environments.

The flash default setting for [Tv] Shutter Speed Priority mode is [] flash off. For long period exposure photography, be sure to set the flash setting to [] flash off.

The provided capture menus are [IMAGE SIZE], [IMAGE QUALITY], [COLOR], [SATURATION], [SHARPNESS], [FOCUS], [QUICK VIEW], [HISTOGRAM], [CAPTURE MODE], [EV], [WHITE BALANCE], [ISO], [METERING], [SELF TIMER] and [INTERVAL].

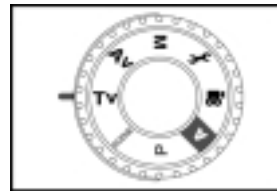
1. Rotate the mode dial to [Tv] Shutter Speed Priority mode.
2. Power on your camera.
3. Press the  button to select a speed.



- The setting range is as follows:



8 ➔ 6 ➔ 5 ➔ 4 ➔ 3.2 ➔ 2.5 ➔ 2 ➔ 1.6 ➔ 1.3 ➔ 1 ➔ 0.8 ➔ 0.6 ➔ 0.5 ➔ 0.4
 ➔ 0.3 ➔ 1/4 ➔ 1/5 ➔ 1/6 ➔ 1/8 ➔ 1/10 ➔ 1/13 ➔ 1/15 ➔ 1/20 ➔ 1/25 ➔ 1/30
 ➔ 1/40 ➔ 1/50 ➔ 1/60 ➔ 1/80 ➔ 1/100 ➔ 1/125 ➔ 1/160 ➔ 1/200 ➔ 1/250
 ➔ 1/320 ➔ 1/400 ➔ 1/500 ➔ 1/640 ➔ 1/800 ➔ 1/1000 ➔ 1/1250 ➔ 1/1500

4. Compose your picture.
5. Press the shutter button.




Aperture Priority Mode [Av]

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When you set the aperture mode, the camera automatically selects a shutter speed according to the amount of light. Choosing a lower aperture value (Higher F value) will fade the background and create a beautiful portrait. With a higher aperture value (Lower F value) both close objects and distant objects (such as landscape scenery) will be in focus. The higher the aperture value, the more the range of the image brought into clear focus. The flash default setting for [Av] Aperture Priority mode is [] flash off. For long period exposure photography, be sure to set the flash setting to [] flash off.

The provided capture menus are [IMAGE SIZE], [IMAGE QUALITY], [COLOR], [SATURATION], [SHARPNESS], [FOCUS], [QUICK VIEW], [HISTOGRAM], [CAPTURE MODE], [EV], [WHITE BALANCE], [ISO], [METERING], [SELF TIMER] and [INTERVAL].

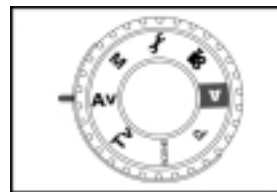
1. Rotate the mode dial to [Av] Aperture Priority mode.
2. Power on your camera.
3. Press the  button to select a value. The aperture range varies depending on the optical zoom status.

- The setting range is as follows:

Wide mode: F2.6 ➔ F3.1 ➔ F3.7 ➔ F4.4 ➔ F5.3 ➔ F6.3

Tele mode: F4.5 ➔ F5.4 ➔ F6.4 ➔ F7.6 ➔ F9.2 ➔ F10.9.

4. Compose your picture.
5. Press the shutter button.





Photography –Selecting Particular Effects

Changing Image Resolution and Quality









Resolution and quality settings determine the pixel size (dimension), image file size, and compression ratio for your images. These settings affect the number of images that can be stored in the memory or on an SD memory card. As you get to know your camera, we recommend that you try each quality and resolution setting to appreciate the effects they will have on your images.

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Higher resolution and higher quality images offer the best photographic results but produce large file sizes. Therefore, fewer images will take up more memory space.

High resolution and 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 and quality settings:

















1. Rotate the mode dial to one of [**A**] Auto mode, [**M**] Manual mode, [**Av**] Aperture Priority mode, [**Tv**] Shutter Speed Priority mode, [**SCENE**] Scene mode or [**P**] Program mode.
2. Power on your camera.
3. Press the [] menu button.
4. Select **IMAGE SIZE** or **IMAGE QUALITY** by using the  /  buttons, then press the  button.
5. Change the settings with the  /  buttons and press the  button again to confirm.
6. To exit from the menu mode, press the [] menu button.
7. Compose your picture.
8. Press the shutter button.





Possible Number of Shots (Still Images)

The frame counter indicates the approximate number of images that can be stored on the internal memory or the SD memory card at the camera's image quality and size settings.

















Resolution	Quality	14MB Internal Memory	SD Memory Card						
			8MB	16MB	32MB	64MB	128MB	256MB	512MB
2560 x 1920 		5	1	6	12	25	52	102	209
		11	5	12	25	51	104	205	419
		23	10	24	50	103	208	411	838
2048 x 1536 		9	4	9	19	40	81	160	327
		18	8	18	39	80	162	321	655
		37	17	37	78	160	325	642	1310
1280 x 960 		23	10	24	50	103	208	411	838
		47	21	48	100	206	417	822	1676
		95	43	96	200	412	834	1644	3553
640 x 480 		95	43	96	200	412	834	1644	3353
		191	87	193	401	824	1668	3289	6707
		383	175	386	803	1648	3336	6579	13414

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



Adjusting the Exposure Compensation

Your camera adjusts the exposure of each scene automatically. However, if the subject is very dark or very bright, you may override the camera's automatic exposure determination to make the subject brighter or darker. This is called "EV compensation".

1. Rotate the mode dial to one of [**M**] Manual mode, [**Av**] Aperture Priority mode, [**Tv**] Shutter Speed Priority or [**P**] Program mode.
2. Power on your camera.
3. Press the [] menu button.
4. Select "EV" by using the  /  buttons, then press the  button.
5. Change the settings with the  /  buttons and press the  button again to confirm .
 - The EV compensation can be adjusted from [-2.0 EV] to [+2.0 EV].
 - The setting range is as follows:
+2.0  +1.5  +1.0  +0.5  +0.0  -0.5  -1.0  -1.5  -2.0
6. To exit from the menu mode, press the [] menu button.
7. Compose your picture.
8. Press the shutter button.



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

- * Spotlit 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









Setting the White Balance

The human eye adapts to changes in light so that white objects still appear white even when the light changes. With cameras, however, the color of the subject is influenced by the color of the light surrounding it. This color adjustment is called “white balance adjustment”. This setting allows you to set the white balance when taking images under specific lighting conditions.

1. Rotate the mode dial to one of [**M**] Manual mode, [**Av**] Aperture Priority mode, [**Tv**] Shutter Speed Priority or [**P**] Program mode.
2. Power on your camera.
3. Press the [] menu button.
4. Select “WHITE BALANCE” by using the  /  buttons, then press the  button.
5. Change the setting with the  /  buttons and press the  button again to confirm.
6. To exit from the menu mode, press the [] menu button.
7. Compose your picture.
8. Press the shutter button.










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- | | |
|---|--|
| [] AUTO]: | automatically adjusts the white balance. |
| [] DAYLIGHT]: | for recording outdoors on a bright day. |
| [] CLOUDY]: | for recording overcast, dull, twilight or evening skies. |
| [] SUNSET]: | for recording during sunsets. |
| [] TUNGSTEN]: | for recording in tungsten lighting conditions. |
| [] FLUORESCENT]: | for recording in fluorescent lighting conditions. |



Switching between Metering Modes

Set the metering method to calculate the exposure.


1. Rotate the mode dial to one of [**M**] Manual mode, [**Av**] Aperture Priority mode, [**Tv**] Shutter Speed Priority or [**P**] Program mode.
2. Power on your camera.
3. Press the [] menu button.
4. Select "METERING" by using the  /  buttons, then press the  button.
5. Change the setting with the  /  buttons and press the  button again to confirm.

■ MULTI

(The camera divides images into several zones for metering and evaluates complex lighting conditions).

■ SPOT

(Meters the area within the spot automatic exposure point frame at the center of the LCD monitor).

6. To exit from the menu mode, press the [] menu button again .
7. Compose your picture.
8. Press the shutter button.











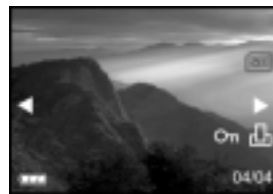


Replaying

Single Image Replay



Play back photographed still images one image at a time.

1. Power on your camera.
2. Press the [] playback button.
 - The last recorded image appears on the LCD monitor.
3. View and select your recorded images by using the  /  buttons.
 - To view the previous image, press the  button.
 - To view the next image, press the  button.
 - Press the  button to display the images in a clockwise direction.
 - Press the  button to display the images in an anticlockwise direction.
 - Press the  button to display detailed information of the image.



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- If there is no image stored in the internal memory or on the memory card, [ NO IMAGE] appears.
- You can also view your images on the TV screen. First connect one end of the A/V cable to the A/V OUT jack of the camera. Then connect the other end to the video input socket of the TV. Set the camera to the [] mode and then turn the TV and camera on.




Recording Voice Memos

A maximum of 30 seconds of audio can be recorded as a memo for photographed still images.

1. Power on the camera.
2. Press the [] Playback button.
 - The last recorded image appears on the LCD monitor.
3. Select the still image that you want to attach the voice memo to by using the  /  buttons.
4. Press the [] menu button and select "VOICE MEMO" by using the  /  buttons and press the  button.
5. Select "RECORD" and press the  button.
 - [PROCESSING...] is displayed on the screen and the recording starts.
6. To stop recording the voice memo, press the  button again.
 - A [] icon is displayed with images that have been recorded with a voice memo.

Playing back the voice memo

Press the  button twice to play back the voice memo.











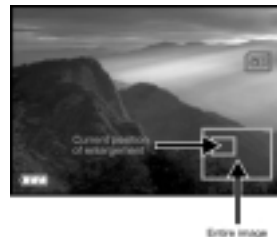
- Recording voice memos automatically reduces the space available on your memory card for pictures.



Magnifying Images

While reviewing your images, you may enlarge a selected section. This magnification allows you to view fine details.

1. Power on your camera.
2. Press the [] playback button.
 - The last recorded image appears on the LCD monitor.
3. Use the  /  buttons to select the frame you want to enlarge.
4. Adjust the zoom ratio by using the [**T**] telephoto button or [**W**] wide-angle button.
 - Pressing the [**T**] telephoto button will enlarge the image.
 - To return to normal magnification, press the [**W**] wide-angle button.
 - The image is displayed enlarged. You will see a green frame with a green box inside. The green frame indicates the entire image, while the green box shows the location of the currently enlarged area.
5. Use the  /  /  /  buttons to select the area to enlarge.
6. To return to the regular display from 6X-enlarged status, press the  button.
 - If you keep pressing the [**W**] wide-angle button, it will change into thumbnail images.



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- Pressing the [**T**] button magnifies the image from 1.3X ➡ 2.0X ➡ 2.2X ➡ 2.4X ➡ 2.6X ➡ 2.8X ➡ 3.0X ➡ 3.2X ➡ 3.4X ➡ 3.6X ➡ 3.8X ➡ 4X ➡ 6X.






Thumbnail Display






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

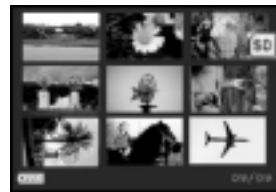
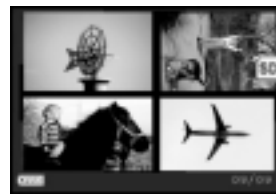
1. Power on your camera.
2. Press the [] playback button.


The last recorded image appears on the LCD monitor.

3. Press the [] thumbnail button once.

- Four thumbnail images are displayed on the LCD monitor. If you press again the [] thumbnail button whilst displaying four thumbnail images, nine thumbnail images will appear.
- If the image is recorded with voice memo, Voice icon will be displayed.
- For recorded video clips, the [] video mode icon will be displayed.

4. Use the  /  /  /  button to move the cursor to select the image to be displayed at regular size.
5. Press the  button to display the selected image on the full screen.



















- If you press the [] delete button while displaying thumbnail images, the currently selected image will be erased.



Viewing Video Clips

Play back video clips recorded on the camera. Voice is also played back.

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

1. Power on your camera.
2. Press the [] playback button.
3. Select the video clip that you want to view by using the  /  buttons.
4. Press the  button to start.
 - While playing the video clips, the screen also indicates the recorded time.
 - If you press the  button the recorded video clip will display as
x1  x2  x3  x1/2 (fast reverse)

 - If you press the  button the recorded video clip will display as
x1  x2  x3  x1/2 (fast forward)

 - To pause playback, press the  button.
 - To stop playback, press the  button.



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- The zoom function cannot be activated while playing back the video clips.
- When playing the video clips on TV, recorded voice can be also played out.



Automated Playback (Slide Show)

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

1. Power on your camera.
2. Press the [] playback button.
3. Press the [] menu button and select "SLIDE SHOW" by using the  /  buttons and press the  button.
4. Set the playback interval by using the  /  buttons.
5. To confirm the setting press the  button again.
 - The slide show starts displaying your images on the LCD monitor, one by one with the interval that you set.
 - Only the first frame of videos is played back.
 - To stop the slide show, press the  button.














- You can adjust the slide show display interval to between 3 sec. and 10 sec.
- If you do not wish to set automated playback (slide show), press **RETURN**.



Protecting Images/Video Clips


This option enables you to prevent recorded images or video clips from being accidentally erased.

1. Power on your camera.
2. Press the [] playback button.
3. Press the [] menu button and select "PROTECT" by using the  /  buttons and press the  button.
4. You can select whether to protect one image / video or all images / video clips by using the  /  buttons and pressing the  button.
 - [PROTECT ONE]: Protect one image / one video clip.
 - [PROTECT ALL]: Protect all images / all video clips in one go.
5. Select "UNLOCK" or "LOCK" by using the  /  buttons and press the  button to confirm the setting.
 - [UNLOCK]: Unlock the protected image or video clip.
 - [LOCK]: Protect the selected image / video clip or all images/video clips



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- The [] protect icon will show on the LCD monitor to indicate a protected image or video clip.



Erasing

Deleting Single Images/Video Clips

You can erase a captured image or a recorded video clip individually by pressing the [] delete button.













1. Power on your camera.
2. Press the [] playback button.
 - The last image frame appears on the LCD monitor.
3. View and select unwanted photographed images by using the  /  buttons, then press the [] delete button.
4. Continue deleting if necessary
 - If all images are erased, [ NO IMAGE] will pop up.
 - To exit deleting, press again the [] playback button or rotate the mode dial.



- Please note that deleted images cannot be recovered. Exercise adequate caution before deleting a picture.
- Protected images cannot be deleted with the erase function.

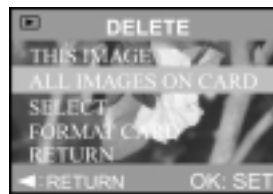


Deleting All Images/Video Clips

1. Power on your camera.
2. Press the [] playback button.
3. Press the [] menu button and select “DELETE” by using the  /  buttons and press the  button to enter the sub-menu.
4. Select [ALL IMAGES ON MEMORY] by using the  /  buttons, then press the  button.
 - If an SD card is inserted, then [ALL IMAGES ON CARD] is displayed.
5. The “DELETE ALL IMAGES ON MEMORY?” message appears on the image.
 - If an SD card is inserted, then “DELETE ALL IMAGES ON CARD?” is displayed.
6. Use the  /  buttons to select YES, and press the  button.
 - If you want to cancel deleting, select NO.
 - If all images are erased, [ NO IMAGE] will pop up.



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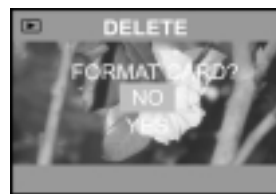
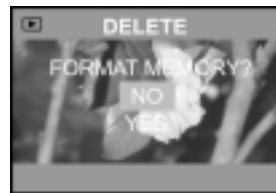
- Please note that deleted images cannot be recovered. Exercise adequate caution before deleting a picture.
- Protected images cannot be deleted with the erase function.



Formatting an SD Memory Card or Internal Memory

Using this option to remove all the recorded images/video clips or other data on camera internal memory or on an SD card.

1. Power on your camera.
2. Press the [] playback button.
3. Press the [] menu button and select "DELETE" by using the  /  button and press the  button to enter the sub-menu.
4. Select [FORMAT MEMORY] by using the  /  buttons, then press the  button.
 - If an SD card is inserted, then [FORMAT CARD] is displayed.
5. "FORMAT MEMORY?" message appears on the image.
 - If SD card is inserted, then "FORMAT CARD?" is displayed.
6. Use the  /  buttons to select YES, and press the  button.
 - If you want to cancel deleting, select NO.
 - If all data is formatted, [ NO IMAGE] will pop up.











- The SD memory card cannot be formatted when it is write-protected.
- Formatting the SD memory card also erases the protected images. All data other than images is also erased. Before formatting the card, make sure that none of the images on the card are still required.
- If no memory card is inserted in the camera, the internal memory will be formatted. This will erase all images stored in the internal memory.



Print Settings (DPOF Settings)

DPOF (Digital Print Order Format) allows you to embed printing information on your SD 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 SD memory card to a DPOF enabled printer or to a laboratory printing service 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. Power on your camera.
2. Press the [] playback button.
3. Press the [] menu button and select DPOF by using the  /  buttons and press the  button to enter the sub-menu.
4. Select the desired setting by using the  /  buttons.
 - The [] DPOF icon is displayed on the DPOF-setting image.

The DPOF sub-menu options:

[QUANTITY]: Select the print quantity from 0~9.

[SET IMAGE]: Allows you to select your preferred image.

[RETURN]: Exit the menu.



- To print out images recorded in the internal memory, it is necessary to copy your images to an SD memory card first.



Transferring Recorded Images/Video Clips To Your Computer

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

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

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

Step 2: Connecting the camera to your computer

Step 3: Downloading images/video clips

	System Requirements (Windows)	System Requirements (Macintosh)
CPU	Pentium 166 MHz processor or higher	PowerPC G3/G4
OS	Windows 98/98SE/Me/2000/XP	OS 8.6 or higher
Memory	32MB (64MB RAM recommended)	32MB (64MB RAM recommended)
Free Space on Hard Disk	128 MB hard disk space	128 MB 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 a Windows PC

The USB driver on the supplied CD-ROM is exclusively for Windows 98. It is not necessary to install the USB driver on computers running **Windows 2000/Me/XP**.

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



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Installing the USB Driver on a Macintosh PC

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

1. Insert the CD-ROM that was packaged with the camera into your 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

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 on the desktop.)



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Step 3: Downloading Images/Video Clips

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.

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 then choose “Copy” from the “Edit” menu. Afterwards, open the destination location and choose “Paste” from the “Edit” menu.

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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.



- 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 the camera power being 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. Insert the CD-ROM that was 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.



- 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 you install and use PhotoSuite while logged in as a user with an "Administrator" account.
- PhotoSuite is not supported on the Mac.

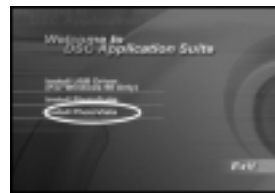


Installing PhotoVista

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



- For information on how to use PhotoVista to create spectacular 360° panoramic images, please refer to its online help.
- For Windows 2000/XP users, make sure you install and use PhotoVista while logged in as a user with an Administrator account.
- For Windows XP users whose OS version does not include Service Pack 1 or higher, please link to: http://www.java.com/en/download/windows_automatic.jsp first and download the Java Virtual Machine installation. For more detailed information about Java, please refer to its online help at: <http://java.sun.com/getjava/help.html> After the Java software installation, you can start to install iSee Media Photovista Panorama.

Below are iSee Media Photovista Panorama system requirements and recommendations:

Windows 95/ Windows 98/ Windows NT 4 (Service Pack 3 or higher);
Windows 2000/ Windows Me/ Windows XP (Service Pack 1 or higher).

- PhotoVista is not supported on the Mac.



List Of Menu Options

Capture Menu (Full function)

This feature allows you to determine the conditions you would like to choose before taking images.

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Navigate the options you wish to configure by using the ▲ / ▼ buttons.

Press the ▲ / ▼ buttons and then the OK button to enter the sub-menu. To confirm the setting press the OK button again.

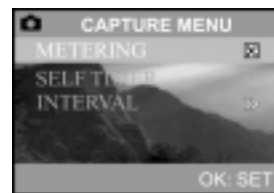
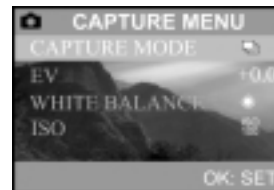
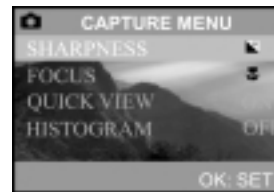
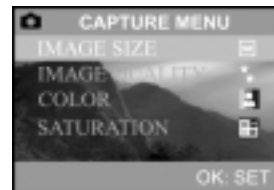
Capture menu items: IMAGE SIZE, IMAGE QUALITY, COLOR, SATURATION, SHARPNESS, FOCUS, QUICK VIEW, HISTOGRAM, CAPTURE MODE, EV, WHITE BALANCE, ISO, METERING, SELF TIMER and INTERVAL.

IMAGE SIZE

Refer to "Changing Image Resolution and Quality" in Photography Selecting Particular Effects.

IMAGE QUALITY

Refer to "Changing Image Resolution and Quality" in Photography Selecting Particular Effects.









COLOR

To capture an image, your camera offers you four types of color (Full color/ Vivid/Black and White/Sepia) to suit your preferences.

Your images will have a different look by choosing different types of color.

- [ FULL COLOR]: Records the image in full colors.
- [ VIVID]: Records the image in brighter colors.
- [ BLACK & WHITE]: Records the image in black and white.
- [ SEPIA]: Records the image in sepia tones.






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SATURATION

To capture an image, your camera offers you three different degrees of color (Low/Medium/High) to suit your preference.

Your images will have a different look by selecting different degrees of color.

This is called "Saturation".

- [ LOW]: Decreases the image contrast.
- [ MEDIUM]: Averages the image contrast
- [ HIGH]: Increases the image contrast








SHARPNESS

Your camera will automatically emphasize the edges (Low/Medium/High) between light and dark areas of the image.

This will make the edges of the image look sharper.





- [ LOW]
- [ MEDIUM]
- [ HIGH]



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FOCUS

You can take images with the distance to the subject set by auto focus, macro, fixed at 1 meter, fixed at 3 meters or infinity.

- [AUTO]: The camera adjusts the settings to allow you to take images with ease.
- [ MACRO]: Take images of subjects within 0.1m (wide) and 0.3m (tele) of the camera. Macro photography is not possible in the Scene mode.
- [ 1M]: Take images of subjects about 1m from the camera.
- [ 3M]: Take images of subjects about 3m from the camera.
- [ INFINITY]: Take images of subjects about 8m or more from the camera.

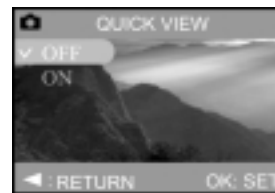


QUICK VIEW

Set to display a captured image on the LCD monitor immediately after you have taken the shot.

[OFF]: Do not display quick view.

[ON]: Display quick view.





HISTOGRAM

Set to display a graph indicating the distribution of brightness in the image.

[OFF]: Do not display the histogram.

[ON]: Display the histogram.





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CAPTURE MODE

Set the capture method that is used for taking images.

[SINGLE]: 1 image recorded at each shot.

[ MULTI]: 16 frames are taken successively. Effective for taking moving subjects continuously.

[ BURST]: 3 images are taken successively. Effective for taking moving subjects continuously.

[ AEB] (Automatic Exposure Bracketing):
3 images are taken consecutively in the order of standard exposure, underexposure and overexposure compensation.



EV

Refer to the title “Adjusting the Exposure Compensation” in Photography—Selecting Particular Effects for further details.



WHITE BALANCE

Refer to the title “ Setting the White Balance “ in Photography–Selecting Particular Effects for further details.

ISO

The ISO speed decides the sensitivity to the light. The higher the ISO number is, the more sensitive it is to the light. When recording under dark conditions or recording a fast moving subject, use a high-number setting. However, while recording high quality images, we suggest you use a low-number setting.

[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.



METERING


Refer to the title “ Switching between Metering Modes “ in Photography–Selecting Particular Effects for further details.




SELF TIMER

Set to use self-timer either continuously or for single photos. Refer to chapter “Using the Self-timer/Interval Photography” for further details.

[CONTINUE OFF]: Disable continuous self-timer photography (default setting).

For each self-timed photograph, you need to toggle the [] button to activate the function.

[CONTINUE ON]: Enable continuous self-timer photography

When you select this setting and activate self-timer photography, the red self-timer icon appears on the screen. If you want to cancel continuous self-timer photography while the self-timer is in operation, press the [] button.



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INTERVAL

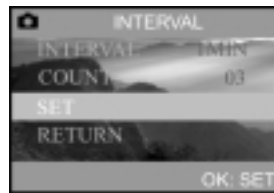
This option automatically photographs at a fixed interval for the number of set cycles. Refer to chapter “Using the Self-timer/Interval Photography” for further details.

[INTERVAL]: Set capture at interval time (1 MIN/3 MIN/10 MIN/60 MIN)

[COUNT]: Set the number of images from 2 to 99 times.

[SET]: Confirm the setting.

[RETURN]: Exit the sub-menu







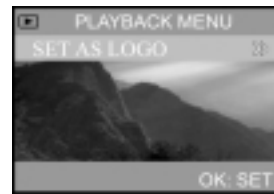
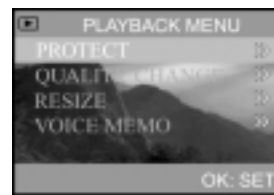
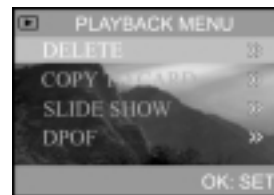
Playback Menu

This feature allows you to transfer your recorded images/video clips to an SD memory card, to create an on-camera slide show or configure DPOF settings. You may also delete one or all stored images, format your SD memory card or the internal memory.

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Navigate the options you wish to configure by using the ▲ / ▼ buttons. Press the ▲ / ▼ buttons and then the  button to enter the sub-menu. To confirm the setting press the  button again.

Playback menu items: DELETE, COPY TO CARD, SLIDE SHOW, DPOF, PROTECT, QUALITY CHANGE, RESIZE, VOICE MEMO and SET AS LOGO.

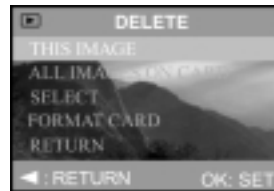




DELETE

Refer to the title "ERASING" for further detail.

- [THIS IMAGE]: Delete the current image or video clip.
- [ALL IMAGES ON CARD/MEMORY]: Delete all images or video clips recorded on the SD memory card or internal memory.
- [SELECT]: Delete the selected image or video clip.
- [FORMAT CARD/MEMORY]: Format all data recorded on the SD memory card or internal memory.
- [RETURN]: Exit from the delete menu.



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COPY TO CARD

This feature allows you to copy your images from the camera's internal memory to a memory card. Of course, you can only do this if you have a memory card installed and some images on the internal memory.

- [NO]: Does not copy the images to the memory card.
- [YES]: Copies all images to the memory card.



SLIDE SHOW

Your camera can display your images sequentially as a slide show. Refer to the title "Automated Playback (Slide show)" for further details.

- [3 SEC]: Set 3 seconds as slide show interval.
- [6 SEC]: Set 6 seconds as slide show interval.
- [10 SEC]: Set 10 seconds as slide show interval.
- [RETURN]: Does not play slide show.





DPOF

Refer to the title "Print Settings (DPOF Settings)" for further details.

PROTECT

Refer to the title "Protecting Images/Video Clips" in Replaying for further details.

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QUALITY CHANGE

Compresses images down to half their size or more and overwrites an old size image with a newly compressed image.

Compressing a previously saved image when the memory capacity has been reached during photography increases space on the memory so that you can continue taking photographs.

The following images cannot be resized:

- (Economy) quality images
- Images taken with other cameras
- Protected images
- Video clips
- Image quality cannot be changed when the SD card is write-protected.





RESIZE

Resizing a previously saved image when the memory capacity has been reached during photography increases space on the memory so that you can continue taking photographs.

The following images cannot be resized:

- Image size (640x480)
- Images taken with other cameras
- Protected images
- Video clips
- Images cannot be resized when the SD card is write-protected



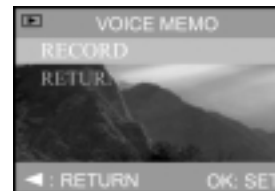
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VOICE MEMO

You can record a voice memo on the captured images. Recording time is up to 30 seconds. Refer to chapter “Recording Voice Memos” for further details.

[RECORD]: Record voice memo on the image.

[RETURN]: Does not record voice memo on the image.



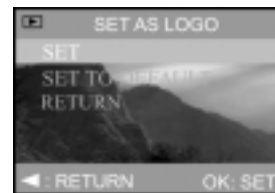
SET AS LOGO

You can set a startup image for your camera according to your preference.

[SET]: Select the camera's startup image.

[SET TO DEFAULT]: Do not select the camera's startup image.

[RETURN]: Exit from the menu.





Video Menu

This feature allows you to adjust video size, video quality and video color while recording movies.

Navigate the options you wish to configure by using the / buttons. Press the / buttons and then the button to enter the sub-menu. To confirm the setting press the button again.

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Video menu items: VIDEO SIZE, VIDEO QUALITY and VIDEO COLOR.

VIDEO SIZE

Change the size (resolution) of image to 320x 240 pixels or 160x120 pixels to create a different image.

[320X240]

[160X120]



VIDEO QUALITY

Change the quality (compression ratio) of image to economy, normal or fine.

[ECONOMY]

[NORMAL]





[FINE]

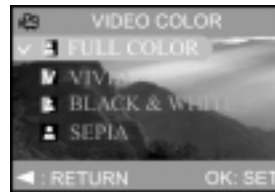




VIDEO COLOR

Change the color of image to full color, vivid, black and white and sepia.

- [ FULL COLOR]: Records the image in full colors.
- [ VIVID]: Records the image in brighter colors.
- [ BLACK & WHITE]: Records the image in black and white.
- [ SEPIA]: Records the image in sepia tones.





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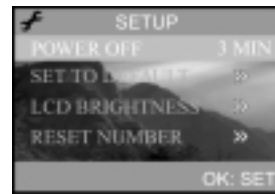


Setup Menu

This feature allows you to set up the default settings for your camera in addition to image-related settings. You can select your personal preferences for the camera by using this mode.

Navigate the options you wish to configure by using the ▲ / ▼ buttons. Press the ▲ / ▼ buttons and then the  button to enter the sub-menu. To confirm the setting press the  button again.

Setup menu items: DATE & TIME, TV, SOUND, LANGUAGE, POWER OFF, SET TO DEFAULT, LCD BRIGHTNESS, RESET NUMBER and DATE IMPRINT.



DATE & TIME

Refer to the title “Setting the Date and Time” in Preparing Your Camera for further details.





TV

Set the video output system according to the country in which your camera is used.

[NTSC]: NTSC system.

[PAL]: PAL system.



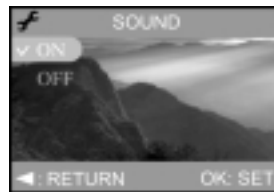
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SOUND

Set to adjust the sound to on or off.

[ON]: Enable the sound setting.

[OFF]: Disable the sound setting.



LANGUAGE

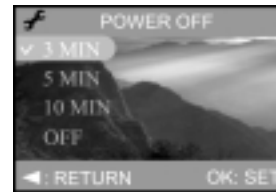
Refer to the title “Setting the Language” in Preparing Your Camera for further details.



POWER OFF

If no operation is performed for a specific period of time, the camera power is automatically turned off. This feature is useful for conserving power.

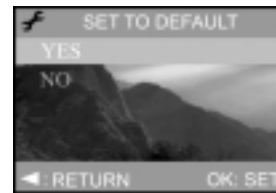
- [3 MIN]: If no operation is carried out for 3 minutes, auto power off is activated.
- [5 MIN]: If no operation is carried out for 5 minutes, auto power off is activated.
- [10 MIN]: If no operation is carried out for 10 minutes, auto power off is activated.
- [OFF]: Disable Auto power off.



SET TO DEFAULT

Set all the parameters to default settings.

- [YES]: Reset to default settings.
- [NO]: The current settings remain.



LCD BRIGHTNESS

Adjust the brightness of the LCD monitor.

- ◀ button: Darkens the display.
- ▶ button: Lightens the display.





RESET NUMBER

Set if you want to reset the file number when you take photographs. This creates a new folder. The photographed images are recorded into the newly created folder starting from number 0001. If you want to reset the file number, be sure that no images are recorded in the internal memory or the SD memory card.

[YES]: Reset the file number.

[NO]: Do not reset the file number.



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DATE IMPRINT

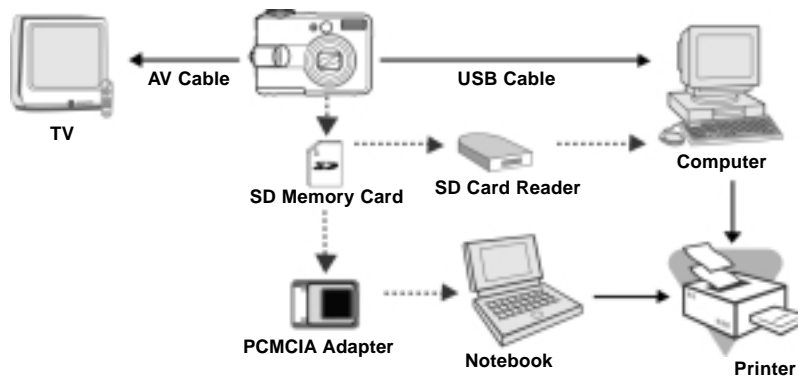
The date of recording can be printed directly onto the still images. This function must be activated before the image is taken.

[YES]: Date and time will be displayed on the captured image.

[NO]: Date and time will not be displayed on the captured image.



Connecting Your Camera To Other Devices





Camera Specifications

Item	Description
Image sensor	CCD
Effective pixels	5.0 Million
Image size	Still Image: 2560 x 1920; 2048 x 1536; 1280 x 960; 640 x 480 Video clip: 320 x 240; 160 x 120
Image quality	Economy, Normal, Fine
Recording media	14MB internal memory; SD memory card (optional) (up to 512MB capacity)
Lens	Focal length: 7.2mm~Tele: 21.6mm Focusing range: Macro: 0.01m~infinity Normal: 0.3m~infinity F-number: Wide: F2.6-F6.3 Tele: F4.5-F10.9
LCD monitor	1.5" LTPS TFT color LCD; High-resolution display (130000 pixels)
Self-timer	5-second delay, 10-second delay, 10+2-second delay, Interval
Zoom	Optical: 3X; Digital: Capture mode: 4X/ Playback mode: 6X
Exposure compensation	Auto; Manual: -2.0 ~ +2.0 EV

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Item	Description
White Balance	Auto; Manual: Daylight, Cloudy, Sunset, Tungsten, Fluorescent
Compressed format	JPEG, MPEG 1 Level 1 for video clip
Standards	JPEG, EXIF 2.2, DPOF, DCF 1.0, MPEG 1 Level 1
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 Ni-MH batteries (optional), 2 x AA CR-V3 (optional), AC power adapter (2.5A/3.0V) (optional)
Tripod socket	Yes
Dimensions	93mm x 64mm x 34mm (WxHxD)
Weight	Approx. 185g (without batteries and the SD memory card)

* Design and specifications are subject to change without notice.