

Warranty Policy

This camera is under warranty for one full year from the date of purchase by the original purchaser. In case of defects in materials or workmanship, we will replace or repair the camera free of charge. This warranty applies to the camera only. This warranty does not include batteries, or other accessories which have not been manufactured by our company. This warranty will not be honored if the camera has been mishandled or tampered with, or altered by anyone other than the manufacturer. Other than for the warranty herein, we are not responsible for loss, damage, or inconvenience of any kind. A defective camera being returned under warranty must be accompanied by a brief description of the difficulties encountered and also by a proof of purchase with the date of purchase clearly indicated. All related transportation costs and insurances are at the owner's expense. Any alteration of this warranty cannot be made without the written approval from our company.

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in commercial 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, detectable by turning the equipment in question 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 distance between the equipment and the receiver
- Connect the equipment to an outlet on a different circuit than that which the receiver is connected to
- Consult the dealer or an experienced radio/TV technician for help

NOTE

A shielded-type DC power cable incorporated with a ferrite core is required in order to meet the FCC emission limits and also to prevent interference to the nearby radio and television reception. Use only shielded I/O cable incorporated with a ferrite core to connect this equipment to host computer and TV set. Shielded AC power cable and shielded I/O cables are required in order to meet the FCC emission limits. It is essential that only the supplied power cord and I/O cable (s) can be used.

READ THIS FIRST

Notice:

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

WARNING

- ⊗ Do not use this 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 states.
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 your local authorized service facility and request repairs. Never attempt to repair this camera by yourself as this is dangerous.
- ⊗ Do not use the camera if any water has entered the camera.
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 your local authorized service facility.
Do not continue to use the camera as this may cause a fire or an electrical shock.
- ⊗ Do not use the camera if any foreign objects have entered the camera.
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 your 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 your 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 insert or drop metallic or inflammable foreign objects into the camera through access points such as the memory card slot.
This may cause a fire or an electrical shock.

WARNING

- ⊗ Do not attempt to modify this camera.
This may cause a fire or an electrical shock.

- ⊗ Do not remove the camera casing.
This may cause an electrical shock.

Internal inspection, maintenance and repairs should only be carried out by your dealer or local authorized service facility.

- ⊗ Avoid using this camera in the bathrooms.
Exposure to excessive moisture may cause a fire or an electrical shock.

- ⊗ Do not touch the power plug during a thunderstorm if you are using the AC power adapter.
This may cause an electrical shock.

- ⊗ Never operate this camera in any way while driving a vehicle.
This may cause a traffic accident.

CAUTION

- ⚠ Do not place this camera in damp or dusty locations.
This may cause a fire or an electrical shock.
- ⚠ Do not place this 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 leave this camera in a location subject to extremely high temperatures, such as in a sealed vehicle or in direct sunlight.
Exposure to high temperatures may adversely affect the camera case and internal components and may cause a fire.
- ⚠ 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 handling the camera, always unplug it from the power source (batteries or 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 may result in an electrical shock.
- ⚠ When leaving the camera unused for long periods, such as during a vacation, always unplug the camera from the power source (batteries or 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 camera.)
Failure to do so could result in a fire.
- ⚠ Do not use batteries other than those specified for use with your 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 fitting batteries into the camera, check the polarity markings on the battery (- and +) to ensure that 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

Congratulations on your purchase of the new digital camera.

Capturing high-quality digital pictures is fast and easy with this state-of-the-art smart camera. Equipped with a 4.0 Megapixel CCD, this camera is capable of capturing pictures with a resolution of up to 2272 x 1704 pixels.

Other cool features provided by the camera include the following:

LCD Monitor - The 1.6" full-color LCD at the back of the camera makes it easy to frame your subject when taking pictures. It also displays a preview of the pictures you have taken.

Digital Zoom - Zoom in 2x and get a larger, closer view of the subject (in Capture mode).

Macro Mode - Take pictures of people portrait or objects at close range using Macro mode.

Flexible Flash Settings - Change the flash setting according to your lighting environment.

Camera Settings - Have more control over picture quality by adjusting settings such as White Balance, EV Compensation, Resolution, and more.

Thumbnail View - Display in sets of nine pictures on the LCD for easier and quicker selection of pictures.

TV Connection - View pictures on a television monitor while browsing through your pictures.

Package Contents

- Digital Camera
- USB cable
- Video cable
- Software CD-ROM
- User manual
- Wrist strap
- Camera pouch

Optional Accessories




- Memory card
- AC power adapter
- Batteries

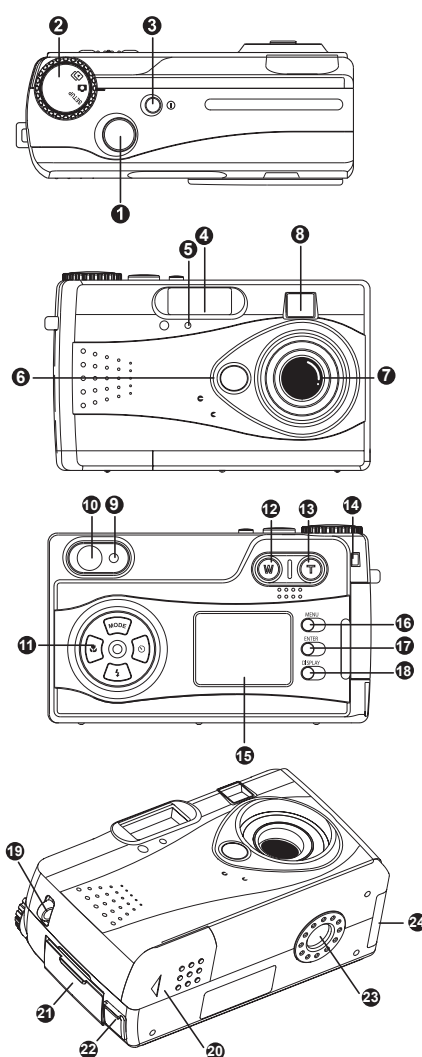
PREPARING THE CAMERA

This section introduces you to the digital camera. Follow the instructions in this section to install batteries, use the power adapter, and install a memory card.

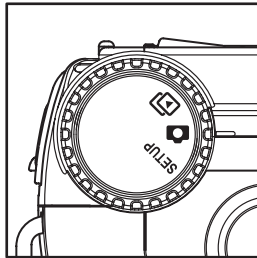
Getting to Know the Camera

Names of Parts


1. Shutter button
2. Dial knob
3. Power button
4. Built-in flash
5. Self-timer LED
6. Lens cover knob
7. Lens/Lens cover
8. Viewfinder
9. Viewfinder LED
10. Optical viewfinder
11. Navigation buttons
 - ▲ / MODE button
 - ▼ /  button
 - ◀ /  button
 - ▶ /  button
12. WIDE button
13. TELE button
14. Card access LED
15. LCD monitor
16. Menu button
17. ENTER button
18. LCD button
19. Strap attachment
20. Battery cover
21. Card cover
22. USB port
23. Tripod socket
24. Terminal cover
 - Video port
 - Adapter port





Dial Knob



It also allows you to choose from three camera modes:

Capture mode () – This mode enables taking pictures and stores pictures on the memory card.

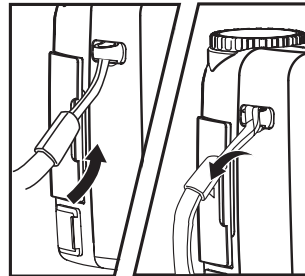
Playback mode () – This mode enables you to view pictures you have taken.

Setup mode () – This mode sets basic camera settings such as Date Setting, Card Formatting, Language, LCD Brightness, Beep, Auto Shut Off and Video Out.

Attaching the Strap

To attach the strap to the camera:

1. Insert the thin end of strap into the strap attachment.
2. Pass the other end of the strap through the loop of thin cord and pull the strap tight.



PREPARING THE CAMERA

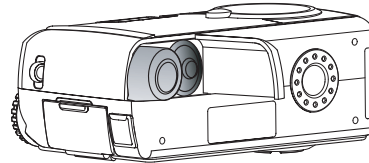
Preparing Power Supply

Always turn off the camera's power before changing power supply.

Loading Batteries

To load the batteries into the camera:

1. Open the battery cover.
2. Load batteries in the battery compartment.
Make sure they are loaded in their polarity as shown inside the battery compartment.
3. Close the battery door. Make sure that the battery cover is firmly closed.

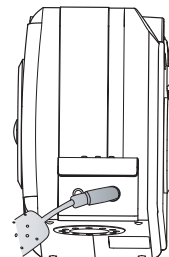


Note:

- It is recommended to use either two AA size Ni-MH rechargeable or one CR-V3 for battery power supply.
- If you are not going to be using the camera for an extended period of time, you should remove the batteries to prevent leaks or corrosion.
- Do not use a mix of different types, manufactures, classification of batteries.
- Low temperatures (under 0°) may reduce the output efficiency of batteries, thereby shortening the operation time of camera.

Using the Power Adapter (Optional Accessory)

1. Open the terminal cover and connect one end of the power adapter to the adapter port (DC IN 3.4V) as illustrated.
2. Connect the end of the power adapter to a power outlet.



Note:

- Only use the AC adapter specified for this camera. Use of any other power source may cause damage to the camera and possibly start a fire.
- The AC power adapter is an optional accessory which may (or may not) be included with your camera kit depending upon the retail bundling options specified by your camera dealer.
- Grasp the adapter, not the cord, when unplugging the adapter from a wall socket.
- If the power cord becomes damaged (exposed or severed wires, etc.), please purchase a new AC adapter. Use of a damaged cord may cause fire or electrical shock.
- Switch off and disconnect the camera from the AC adapter before unplugging it from the wall socket.

Inserting/Removing the Memory Card (Optional Accessory)

Always turn off the camera's power and confirm the card access LED is off before inserting/removing the memory card, otherwise the card may be damaged. You can use either the SD card (Secure Digital Memory Card) or the MMC(Multi Media Card).

Inserting a Memory Card

Your camera can store pictures on a removable memory card. Make sure a memory card is inserted into the camera before you start taking pictures.

To insert a memory card into the camera:

1. Press the power button to turn off the camera's power.
2. Open the card cover.
3. Insert the memory card. The front side of memory card (printed arrow) and the front side of the camera should face in the same direction.
4. Close the card cover. Make sure that the card cover is firmly closed.



Note:

- Before you use the new memory card for the first time, be sure to format the memory card.
- Do not use force when inserting memory card. Damage may occur to the connector section.
- The storage capability of the memory card will diminish with extended use. It may be necessary to purchase a new card periodically.

Removing a Memory Card

To remove a memory card from the camera:

1. Press the power button to turn off the camera's power.
2. Open the card cover.
3. Push the memory card in as far as it can go, and pull it out with your fingers.
If you push memory card once in as far as it can go, it will protrude slightly. Pull it out with your fingers.
4. Close the card door. Make sure that the card cover is firmly closed.

Warning:

- Never open the card cover or remove the memory card while data is being recorded to the memory card (card access LED lights). This might damage the memory card or corrupt the data on the memory card.
- Improper use of the memory card may cause data loss or damage. It is recommended to make a back up copy of any important data in another storage media, such as hard disk, CD-ROM, etc.
- Keep away foreign objects from the terminal section.
- Keep away from static electricity and electromagnetic fields.
- Do not bend, drop or apply excessive force.
- Keep away from heat, moisture and direct sunlight while using and for storage.


GETTING STARTED

Once you have installed batteries or connected a power adapter and inserted a memory card into the camera, you are ready to use the camera.

Turning the Camera On/Off

You can turn camera on or off by pressing power button.

Checking Batteries

Located on the LCD monitor, the low battery indicator will be displayed if the battery is weakened with the  icon while the camera is on. The number of pictures that can be taken varies according to the performance and usage conditions of the batteries. Power is consumed by the following operations even when not recording and these will reduce the number of images that can be recorded.

- Repeated focus operations by pressing the shutter button halfway
- Repeated zoom operations
- Extensive use of the LCD monitor in the Playback mode
- Communication with a PC

Note:

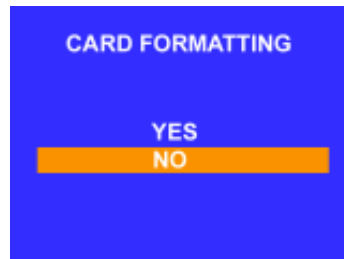
It is recommended that you do not use the Flash or Auto-Flash features while battery power is low.

Turning the LCD Monitor On and Off

To turn the LCD monitor off or back on, just toggle the LCD button. Since the LCD monitor consumes battery power fast, you may temporarily turn off the LCD monitor and use optical viewfinder instead when taking pictures.

Formatting the Memory Card

In most cases, you can directly use a newly purchased memory card to store pictures. But to avoid any possible problems, it is recommended that a new memory card be formatted first before using it.







1. Set the dial knob to SETUP.
The main menu of the setup mode is displayed on the LCD monitor.
2. Press the ▲ or ▼ button to choose CARD FORMATTING, and press the ENTER button.
3. To format a memory card, select YES with the ▲ or ▼ button, and press the ENTER button again to confirm.

Warning:

- If the memory card contains pictures, all files, including protected picture files, will be deleted when the memory card is formatted. The deleted files cannot be recovered. Memory card cannot be formatted if it is write-protected.
- The card access LED lights while the camera is accessing the memory card.
(Recording, reading and erasing the image data)

Memory Card Indicator

ICON on LCD MONITOR	STATUS
	No card
	Unknown card
	Card full
	No Image

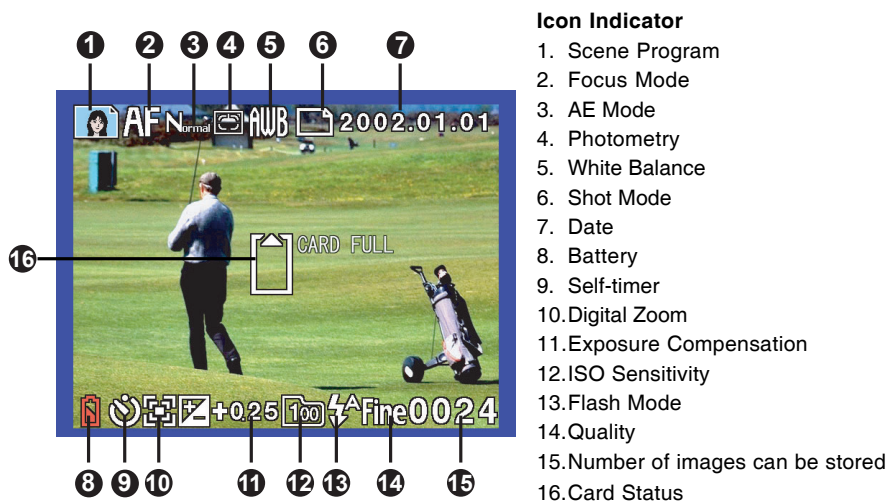
CAMERA OPERATION

The camera can capture the image and stores it on the memory card in Capture mode(). The camera shows the preview image on the LCD monitor. To adjust the current setting, switch the dial knob to appropriate mode and press the menu button.

CAPTURE MODE

Switch the dial knob to , the camera enables you to capture the image and stores it on the memory card. You can frame subjects using either the optical viewfinder or 1.6" full color LCD monitor. The camera provides such shooting modes as a single image shot and burst shot (up to 3 images), in 2.8x optical and 2x digital zooming.

LCD Monitor Display



Note:

- The number that how many images can be stored will not appear while the "No Card" or "Unknown Card" icon is displayed on the screen.
- The icons of the Focus, AE, Photometry and White Balance appear only when the scene program is "Standard".
- The icons of Self-timer, Digital Zoom and EV appear only while each function is applied to the preview images.





CAPTURE MODE

LCD button

Each press of the LCD button switches the display format as follows:

→ **ICON OFF → LCD OFF → LCD and ICON ON** →

Taking Pictures

1. Make sure that a memory card is properly inserted.
2. Press the power button to turn on the camera's power.
Open the lens cover beforehand.
3. Set the dial knob to .
 - Toggle the **MODE** button to select the desired scene program(refer to page 18).
 - Toggle the  button to select the desired flash mode (refer to page 19).
 - Toggle the  button to select the desired focus mode(refer to page 19).
 - Press the  button to toggle self-timer on/off (refer to page 20).
4. Look at the image on the LCD monitor or optical viewfinder to compose the picture.
Press the WIDE/TELE button to set the subject size and image composition.
5. Press the shutter button down half way, and press it down fully .
 - Pressing the shutter button down half way adjusts the exposure, and pressing the shutter button down fully takes the shot.
 - The viewfinder LED always lights when the camera is ready.
 - The card access LED lights while image data is being recorded onto the memory card.

Note:

The warning message "OPEN THE LENS COVER" if the lens cover is closed in the capture mode.

Number of Recordable Images

All images are stored on a memory card inserted in the camera. The camera does not have any resident memory for the image storage. The total number of stored images is varied with the free space of the card, the mixture of the image quality modes, and also the complexity of the subject. The following are examples of the roughly estimated file size and the reference number to be displayed on the LCD monitor in the still capture mode after the camera formats the card.

IMAGE QUALITY	16MB	32MB	64MB	128MB
Fine	11	23	48	97
Standard(STD)	22	47	96	195
Basic	34	72	149	301
Economy (Eco)	129	270	553	1118

Zoom Control

This camera features two types of zooming, optical zooming (2.8x) and digital zooming (2x).

Optical Zoom

1. Press hold the WIDE button, it will move the lens towards to the wide-angle position, which means zooming away from your subject.
2. Press hold the TELE button, it will move the lens towards the telephoto position, which means zooming in your subject.

Digital Zoom

If you want your subject to appear larger and closer when the picture is taken, use your camera's Digital Zoom feature. Your digital camera provides 2x Digital Zoom.



To use Digital Zoom, the LCD monitor is required.

1. Toggle the LCD button to turn on the LCD monitor.
2. Press hold the TELE button to zoom in your subject until the maximum TELE position, and then release the button. Press the TELE button once again, it will advance to 2x digital.

Digital zoom is indicated by  icon on the LCD monitor.

3. Press the shutter button halfway down to lock in the auto focus and exposure, and then press the shutter button all the way down to take the picture.

Selecting the Scene Program

The camera provides three scene program modes besides the standard mode, which are Landscape mode, Portrait mode and Night View mode. Toggle the **MODE** button to select the desired Scene program.

Portrait mode



Suitable for portrait shot of person. The background get slightly blurred and a subject becomes in-focus in this mode. The camera automatically sets the proper shootingn conditions.

Landscape mode



Suitable for shot of the landscape. Please choose this program to take a picture for both your subject and the background in focus.

Night view mode






Suitable for shot of a night view. The camera sets the slower shutter speed, even though the camera fires the flash. Since this may result in the image becoming handshaken, use of a tripod is recommended.

Note:

- For standard mode, there is no indicator for the icon on the LCD monitor.

Focus Mode Setting


Toggle the  button to select the desired focus mode.

Focus Mode	Icon Indicator	Focusing Range
Auto Focus		70cm to infinity
Macro		10cm to 70cm (WIDE) 25cm to 70cm (TELE)
Infinity		Infinity

Note:

The auto focus operation activates when the shutter button is pressed halfway in AF mode and Macro mode. The focus is locked as long as this button is kept pressing. The image is captured when the shutter button is fully pressed.

Selecting the Flash Mode

Toggle  button to select Auto flash, Fill-in, Flash Off, Auto flash with Red-eye reduction until the desired mode is displayed on the LCD monitor.

Auto Flash mode

When recording in a dark place condition, the camera will automatically determine whether the flash is necessary.

Fill-In Flash mode

Used to soften dark shadows on the face of the subject due to backlight, strong direct light or sunlight. The flash will always be used regardless the surrounding brightness.

Flash Off mode

Used when recording in a place where flash photography is prohibited, or when utilizing the night view or indoor lightning for recording. The flash will always be off during recording. Under low light conditions, the shutter speed will become slow. Since this may result in the image becoming blurred, use of a tripod is recommended.


Red-eye reduction mode(RER)



Pre-flash is performed before the main flash to reduce the red-eye; an effect caused by light reflected from the retina. Use in low light conditions when photographing people or animals. The pre-flashes contract the pupils of the subject's eyes.

Note:

- The red-eye reduction may have little effect if the subject is not directly facing the pre-flash or main flash, or when there is some distance between the camera and the subject.
- The flash turns off automatically when you select burst mode in shot mode.

Self-timer Photography

The camera can be set with 10 seconds delayed shutter. Press the  button to toggle the self-timer on/off. The camera start counting the time and the self-timer LED turns on when a user fully pressed the shutter button. The self-timer LED lights steadily for 7 seconds and then blinks another 3 seconds, after which the shot is taken.

1. Set the dial knob to .
2. Toggle the  button to turn on the self-timer function.


It is indicated by  icon on the LCD monitor.

3. Press the shutter button.
4. After 10 seconds, an image is captured and the timer will turn itself off.

Note:

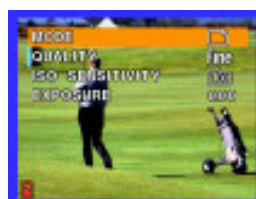
The self-timer operation will be cancelled when you press the shutter button again while the self-timer is processing.

CAPTURE MENU

By pressing the menu button in Capture mode , the following Menu 1 is displayed, when the Standard scene program is selected at Scene program. When the other is selected at the program, the following Menu 2 is displayed. The Scene program can be set by pressing the MODE button in the Capture Mode.



Menu 1 (Scene: Standard)





Menu 2 (Scene: Landscape/Night View/Portrait)


Navigation Buttons

Press the ▲ or ▼ button to select the desired setting. The selected setting item can be seen with highlighted icon. Each setting value can be changed by pressing the ◀ or ▶ of the Navigation buttons.

Mode

Set the image capture mode.

MODE	ICON	DESCRIPTION
Single		Capture single image.
Burst		Capture a series of images (up to 3 images). Exposure and focus are fixed.





1. Set the dial knob to .
2. Press the menu button.
3. Press the ▲ or ▼ button to select MODE.
4. Press the ◀ or ▶ button to select the desired mode setting.
5. Press the menu button to exit from the menu mode.


Note:

- In single mode, each image is captured with each focus and exposure condition.
- In burst mode, all images are captured the same focus and exposure condition, which are decided at the first shot of the burst capturing. You need to keep pressing the shutter button to capture the series of images (up to 3 images).

Quality




Set the quality mode of any image to be captured.


IMAGE QUALITY	ICON	RESOLUTION
Fine		2272 x 1704 pixels
Standard		1600 x 1200 pixels
Basic		1280 x 960 pixels
Economy		640 x 480 pixels

1. Set the dial knob to .
2. Press the menu button.
3. Press the ▲ or ▼ button to select QUALITY.
4. Press the ◀ or ▶ button to select the desired quality setting.
5. Press the menu button to exit from the menu mode.

ISO Sensitivity


Set the ISO sensitivity.

SENSITIVITY	ICON	DESCRIPTION
100		ISO 100 (default)
200		ISO 200
400		ISO 400

1. Set the dial knob to .
2. Press the menu button.
3. Press the ▲ or ▼ button to select ISO SENSITIVITY.
4. Press the ◀ or ▶ button to select the desired ISO sensitivity setting.
5. Press the menu button to exit from the menu mode.





Exposure


Set the exposure compensation. The exposure can be compensated manually to make the image brighter or darker by setting the exposure compensation value. The range of the exposure compensation is from -1.5 EV to +1.5 EV at 0.25 EV step.

1. Set the dial knob to .
2. Press the menu button.
3. Press the ▲ or ▼ button to select EXPOSURE.
4. Press the ◀ or ▶ button to adjust the desired exposure setting.
5. Press the menu button to exit from the menu mode.

White Balance


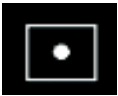
Set the white balance mode.


WHITE BALANCE	ICON	DESCRIPTION
Auto WB		Automatic white balance mode (default)
Daylight		Day light mode
Fluorescence		Fluorescent light mode
Incandescence		Incandescence light mode

1. Set the dial knob to .
2. Press the menu button.
3. Press the ▲ or ▼ button to select WHITE BALANCE.
4. Press the ◀ or ▶ button to select the desired white balance setting.
5. Press the menu button to exit from the menu mode.

Photometry




Set the photometry. The camera calculates the exposure level before a photograph is taken.


PHOTOMETRY	ICON	DESCRIPTION
Center Weighted		The exposure is measured and calculated for the entire area of the screen. By dividing the entire area of the screen, the exposure level for each unit is calculated. A well balanced exposure can be obtained.
Spot		The exposure is measured in a very small area at the center of the screen. It is possible to calculate the exposure of a subject without being affected by the surrounding environment.

1. Set the dial knob to .
2. Press the menu button.
3. Press the ▲ or ▼ button to select PHOTOMETRY.
4. Press the ◀ or ▶ button to select the desired photometry setting.
5. Press the menu button to exit from the menu mode.


AE Mode

Set the AE mode. The effective range of the auto-exposure of the standard mode is from LV 6 to LV 16 at ISO 100. By halfway pressing the shutter button, the AE is also locked together with auto white balance. The camera provides three AE modes available with Standard scene program mode:

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

1. Set the dial knob to .
2. Press the menu button.
3. Press the ▲ or ▼ button to select AE MODE.
4. Press the ◀ or ▶ button to select the desired AE mode setting.
5. Press the menu button to exit from the menu mode.

PLAYBACK MODE

Switch the dial knob to  to preview the recorded images on the LCD monitor.

LCD Monitor Display



Icon Indicator

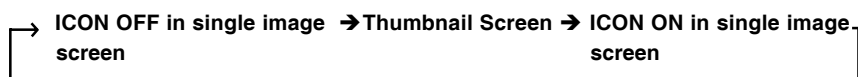
1. Captured Date & Time
2. Battery
3. Magnification
4. DPOF (Print Setting)
5. Protected
6. Quality
7. DCF Directory-file Number

Note:


- The icons showing the image status cannot be displayed when the card status icon is on the screen. However the low battery indicator can be displayed if the battery is weakened.
- The icons of the magnification and erase protection appear when each function is applied to the displayed image.

LCD Button

Each press of the LCD button switches the display format as follows:



Playback Single Image


1. Set the dial knob to .
The camera displays a latest stored image on the memory card.
2. Press the ◀ or ▶ button, which has the function to backward/forward, to browse through the recorded images.

Note:

If no image in the card, the  icon is displayed on the LCD monitor.

Thumbnail Display


For quicker selection of pictures, you can display them as the thumbnails on the LCD monitor. A set of 9 thumbnails can be displayed per screen.

1. Set the dial knob to .
2. Toggle the LCD button until thumbnail screen appears on the LCD monitor.
3. You can select the thumbnail image and switch the thumbnail page by pressing the navigation buttons (▲, ▼, ◀ or ▶ button)
4. To display the selected image on full screen, press the ENTER button .

Zoom Playback

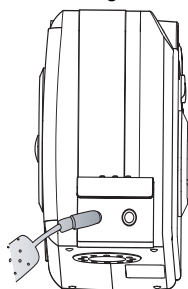
The single displayed image can be magnified up to four times by pressing the TELE/WIDE button.

Zoom Button	Zoom Playback Status
Wide	4x → 3x → 2x → Normal
Tele	Normal → 2x → 3x → 4x

1. Set the dial knob to .
2. Toggle the WIDE/TELE button to view the single image in zoom playback mode.
Extended image area can be scrolled by pressing the ▲, ▼, ◀ or ▶ button.

Viewing Images on a TV Monitor


Television sets can be used to compose images for playback. To do this, the camera must first be connected to the TV. We recommend using the AC adapter on an indoor power outlet when available.



1. First, connect the TV to your digital camera. Plug one end of the video cable to the VIDEO port of the digital camera, and connect the other end of the cable to the video-in port on the television.
2. Select the appropriate video mode either NTSC or PAL, depending on what TV standard you are using (refer to page 34).
3. Turn on the camera and television.
4. Playback the recorded images.

Details of operation are the same as playing them back on the LCD monitor.

PLAYBACK MENU


When you press the menu button in Playback mode  , the following menu is displayed.



You can select the option by pressing the ▲ or ▼ button. To quit the PLAYBACK MENU, press the menu button again.

Erase All Images

Erase all images in the memory card except the protected images (if any).

1. Set the dial knob to .
2. Press the menu button.
3. Press the ▲ or ▼ button to select ERASE ALL IMAGES and press the ENTER button, the following sub menu is displayed.



4. To erase all image, press the ▲ or ▼ button to select YES, and press the ENTER button to confirm.
5. Toggle the menu button to exit from the menu mode.

Erase Single Image



Erase the selected image.

1. Set the dial knob to .
2. Press the menu button.
3. Press the ▲ or ▼ button to select ERASE SINGLE IMAGE and press the ENTER button, the following sub menu is displayed.






4. Press the ◀ or ▶ button to select the image to be erased.
5. To erase an image, use the ▲ or ▼ button to select YES, and press the ENTER button to confirm.
6. Toggle the menu button to exit from the menu mode.

Note:



- In case the display image is protected, it is indicated by  icon. To erase a protect image file, the file must be unlocked in the PROTECT menu before erasing the image (refer to page 30).
- The images with the  icon also cannot be erased. You need to clear the print setting in the PRINT SETTING menu before erasing the images (refer to page 31).


Protect

Toggle the protection status of the selected image. When the images are protected, they cannot be erased until unlocked. However, the protected images can be lost if the memory card (SD card or MMC) is formatted by the camera.

1. Set the dial knob to .
2. Press the menu button.
3. Press the  or  button to select PROTECT and press the ENTER button, the following sub menu is displayed.



4. Press the  or  button, to select the image to be protected.
5. To protect image, press the ENTER button to toggle image protected on/off.

The protected image is indicated by  icon on the LCD monitor.




6. Toggle the menu button to exit from the menu mode.

Print Setting



Print setting allows you to select and mark images for printing. The camera also lets you specify the number of copies to print for each selected image. When you insert your memory card to a DPOF-compatible printer, only the marked images will be printed.

[PRINT SETTING]



Enables you to set the print setting.

1. Set the dial knob to .
2. Press the menu button.
3. Press the  or  button to select PRINT SETTING, and press the ENTER button, the following sub menu is displayed.





4. Press the  or  button to select one of the PRINT SETTING sub menus (SELECT/DATE PRINT/QUANTITY).




[SELECT]: allows you to select the image to set the print setting.

Press the  or  button to select the desired image.

[DATE PRINT]: allows you to include date imprint on the image.



Press the  or  to select if the captured date is printed or not.

[QUANTITY]: allows you to select the image quantity from 1 ~ 99.

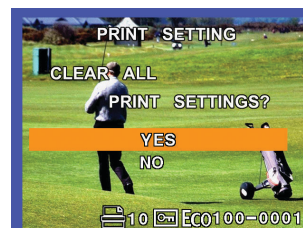
Select the image quantity you want to print by pressing the  or  button. It is indicated by  icon.

[CLEAR ALL PRINT SETTINGS]


If the memory card has the images that have already been set the print setting, this menu is displayed.

Press the  or  button to select YES/NO option.

If you select YES and press the ENTER button, all the print settings in the memory card are cleared and the "PRINT SETTING" menu is displayed. If you select NO and press the ENTER button, the print settings in the memory card are not cleared. Then the Playback main menu is displayed.



Note:

- You need to clear the old print settings that have been set in the memory card before you set the new print setting.
- The images with the  icon cannot be erased. You need to clear the print setting before erasing the images.

SETUP MENU

This feature allows to set up the default settings for using this camera. The settings are held in memory even if the camera is turned off. By switching the dial knob to **SETUP**, the SETUP MENU appears. You can select the each setting item by pressing the ▲ or ▼ button.



DATE SETTING	Sets the Time and Date
CARD FORMATTING	Formats the Memory Card
LANGUAGE	Sets On-screen Display Language
LCD BRIGHTNESS	Adjusts LCD Monitor's Brightness
BEEP	Turns On and Off the Sound
AUTO SHUT OFF	Selects the Time for Automatic Power Off
VIDEO OUT	Sets Video Output System

Date Setting

Set the date, time and date display option. It can hold the information when the camera's power is turned off by pressing the power button.

1. Set the dial knob to **SETUP**.
2. Press the ▲ or ▼ button to select DATE SETTING and press the ENTER button, the following sub menu is displayed.



3. Press the ▲ or ▼ button to select the item(YEAR/MONTH/DAY/HOUR/MINUTE/OPTION) to set, and press the ◀ or ▶ button to set the value for each item.
4. Press the menu button to confirm the changes on DATE SETTING.

Card Formatting

Format the card in the camera. This will erase all data stored in the card. For more detail information, please refer to page 14.

Language

Set the on-screen display language of menus displayed on the LCD monitor.

1. Set the dial knob to **SETUP**.
2. Press the **▲** or **▼** button to select LANGUAGE, and press the ENTER button.
3. Press the **▲** or **▼** button to choose one the desired language.

LCD Brightness

Adjust the brightness of the LCD monitor. It can be adjusted within the range [-3] to [+3], interval of 1.

1. Set the dial knob to **SETUP**.
2. Press the **▲** or **▼** button to select LCD BRIGHTNESS.
3. Press the **◀** or **▶** button to change the value.

Beep

Set whether or not to sound the beep tone.

1. Set the dial knob to **SETUP**.
2. Press the **▲** or **▼** button to select BEEP.
3. Press the **◀** or **▶** button to toggle the option:
[ON]: Sounds the beep tone according to the operating state or operation.
[OFF]: Does not sound the beep tone in any state.

Auto Shut Off

If no operation is carried out for a fixed amount of time, power consumption is set to its minimum state (power almost turned off) to prevent battery wear. This setting allows you to set the time when the camera turns off automatically. To return to the normal state after the Auto Shut Off has been executed, press the Power button to turn the power on again. When the camera power is supplied by an AC adapter, the auto shut off is fixed at 5 minutes.

1. Set the dial knob to **SETUP**.
2. Press the **▲** or **▼** button to select AUTO SHUT OFF.
3. Press the **◀** or **▶** button to choose one of the following options:
 - [1 MIN] : Auto power off after 1 minute
 - [3 MIN] : Auto power off after 3 minutes
 - [5 MIN] : Auto power off after 5 minutes

Note:

This function is not activate in the PC mode.

Video Out

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

1. Set the dial knob to **SETUP**.
2. Press the **▲** or **▼** button to select VIDEO OUT.
3. Press the **◀** or **▶** button to toggle the option:
 - [NTSC]: NTSC system
 - [PAL]: PAL system

TRANSFERRING PICTURES TO THE COMPUTER

Before you can transfer the pictures from the memory card to your computer, you need to install first the camera software into your computer.

(Driver installation: Applicable only on Windows 98 and Mac OS 8.6)

System Requirements

Before installing the camera software, make sure your computer meets the following system requirements:

Windows 98/2000/Me/XP, Pentium 166 MHz or higher for PC Users

Mac OS 8.6/9.0/9.1/X, Power PC CPU for Macintosh Users

Color monitor (800 x 600 24-bit or higher recommended)

Available USB port, CD-ROM drive

80 MB available hard disk space

At least 32 MB RAM

Installing the Software (Driver & Image Application)

1. Insert your camera's Installation CD into your CD-ROM drive.
2. The installation program starts. Follow the on-screen instructions to complete the camera software installation.
3. Restart your computer.

Connecting the Camera to Your Computer

Your digital camera comes with a USB cable that you can use to connect the camera to your computer.

1. Plug the smaller connector of the USB cable into the USB port on your camera.

2. Plug the other end of the USB cable to your computer's USB port.

Note:

Since downloading pictures eats up battery power fast, use the AC power adapter whenever you are transferring pictures to your computer.

Downloading Pictures

Once you have properly connected the camera to your computer, you are now ready to transfer pictures.



1. Make sure the USB cable is properly connected between your camera and computer.
2. Turn on your camera's power.
The camera gets into the PC mode regardless the dial knob position.
3. To access the pictures on the memory card:
If you are using Windows, double-click **My Computer** on the desktop. You will then see a drive labeled "Removable disk". Click that drive letter.
If you are using Macintosh, double-click the "untitled" disk on the desktop.
4. Double-click the **DCIM** folder.
5. To copy the picture files:
Double-click the existing sub folders. Then, drag and drop the image files to the desired location on your computer's hard disk.






Note:

While the camera is connected to your computer, the camera will not allow you to take pictures. You will also not be able to view pictures on the camera.

Warning and Error Messages

Error Message Related the Memory Card in the Playback Mode

If the card error occurs in either the Capture mode  or the Playback mode , the following icon is displayed according to the situation on the background.

ICON	Status	MODE
	It is displayed when the card is not inserted into the camera.	Capture Mode Playback Mode
	It is displayed when the “unknown” card (the camera cannot recognize it) is inserted into the camera.	Capture Mode Playback Mode
	It is displayed when the card contains no image is inserted into the camera.	Playback Mode
	It is displayed when the card that is fully recorded is inserted into the camera.	Capture Mode
	It is displayed when the image cannot be displayed for any reason (for example, the image is broken, etc.).	Playback Mode

Warning Messages

Warning messages will be displayed according to the camera status as the following table.

Warning message	Status	Mode
OPEN THE LENS COVER (White letter and Black back)	The lens cover is closed in Capture mode.	Capture Mode
REC ERROR (White letter and Preview)	The camera fails to save the captured image for any reason.	Capture Mode
CARD ERROR (White letter and Blue background)	The camera can not format the card in the “Card Format” function.	Setup Mode
CARD PROTECTED (White letter and Preview in Capture mode, White letter and playback image in Playback mode)	The camera tries to write the data into the protected card.	Capture Mode Playback Mode

SPECIFICATIONS

Image Sensor	4.0 Megapixels (1/1.8" CCD sensor)
Image Quality	2272 x 1704 pixels (Fine) 1600 x 1200 pixels (Standard) 1280 x 960 pixels (Basic) 640 x 480 pixels (Economy)
File Format	Still & Burst files: Exif 2.2 (JPEG Compression)
Recording Medium	Internal memory: None External memory: SD card/Multi Media Card(MMC)
File System	DCF
Print File System	DPOF
Lens	2.8x zoom lens F2.9 (WIDE) ~ F4.8 (TELE)
Focal Length	f=7.25mm-20.3mm (equivalent to 34mm-97mm on a 35mm camera)
Focal Range	Standard: 70 cm ~ infinity Macro: 10 cm ~ 70 cm (WIDE) 25 cm ~ 70 cm (TELE)
Digital Zoom	Capture mode: 2x Playback mode: 2x, 3x, 4x
Viewfinder Type	Real image viewfinder
Shutter Speed	1/1000 ~ 2 seconds
Exposure Metering	Spot, Center Weighted
Exposure Control	Auto, AE Range: LV 6 ~ 16
Exposure Compensation	-1.5 EV to +1.5 EV (in 0.25EV increments)
White Balance	Auto/ Daylight/ Incandescence/Fluorescence
Sensitivity	Equivalent to ISO 100/200/400
Flash	Auto, Fill-in, Flash Off, Red-eye reduction
Flash Range	3.0m at WIDE (Guide #7.5)
Self-timer	10 seconds delay
LCD monitor	1.6" color TFT LCD
Connectors	AC power port (DC IN 3.4V), USB port, Video Output (NTSC/PAL)
Weight	Approx. 210g (without battery)
Dimension	106mm(W) x 40mm(H) x 63mm(D)

*Design and Specifications are subject to change without notice.