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INTRODUCTION

Thank you for purchasing the new digital camera!
Equipped with a 5.18 Megapixels CCD sensor, your camera delivers good quality, 2560 x 1920 resolution images. Other features provided by the camera include the following:

- **5.18 Megapixels**
  A high-resolution CCD sensor provides 5.18 megapixels for good quality of images.
- **Auto flash**
  An auto flash sensor automatically detects the shooting (lighting) conditions and determines whether the flash should be used.
- **2.0" LTPS color image LCD monitor**
- **Optical zoom: 1x~3x**
- **Digital zoom: 1x~4x**
- **12MB internal (built-in) memory**
  Images can be captured without using a memory card.
- **Support for SD memory card for memory expansion**
  You may wish to expand the memory capacity (up to 512MB capacity) by using an external memory card.
- **USB connection (USB 2.0 Full speed)**
  Still images or video clips files that you have recorded can be downloaded to your computer using the USB cable (A USB driver is required for Win 98 and Win98SE).
- **DPOF functionality**
  DPOF can be used to print your images on a DPOF compatible printer by simply inserting the memory card.
- **PictBridge support**
  You can connect the camera directly to printer that supports PictBridge and perform image selection and printing using the camera monitor screen and controls.
- **Provided editing software: NTI Photo Suite**
  You can enhance and retouch your images on your computer by using the provided editing software.

Package Contents

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

Common Product Components:

- Digital camera
- User's manual
- USB cable
- Software CD-ROM
- Warranty card
- AV cable
- Camera strap
- Camera pouch
- 2 AA batteries

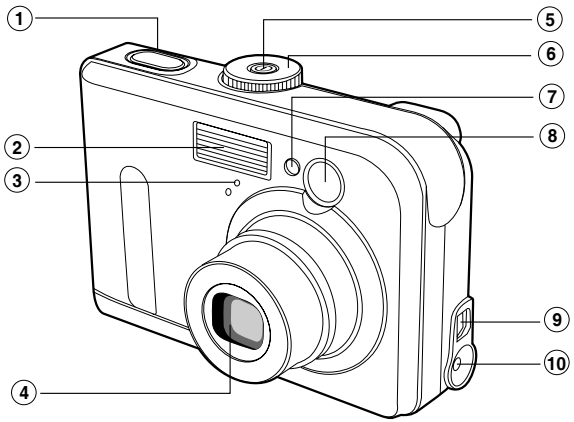
Common (Optional) Accessories:

- SD memory card
- Battery charger
- AC power adapter

- Accessories and components may vary by retailer.

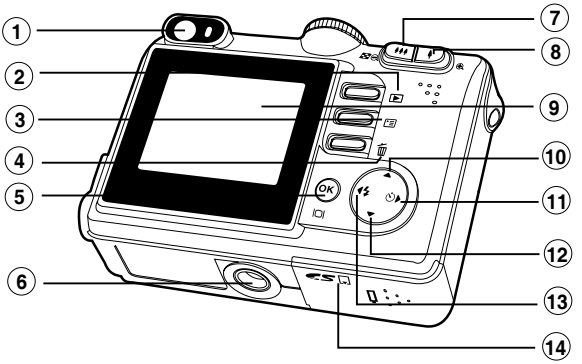
GETTING TO KNOW YOUR CAMERA

Front View



1. Shutter button
2. Flash
3. Microphone
4. Lens
5. Power button
6. Mode dial
7. Self-timer LED
8. Viewfinder window
9. PC (USB) / AV Out terminal
10. DC in 3V terminal

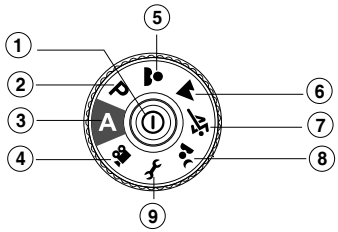
Rear View



1. Viewfinder
2. Playback button
3. Menu button
4. Delete button
5. OK / (Display) button
6. Tripod socket
7. / Zoom out (wide-angle) button
   Thumbnail button
8. / Zoom in (telephoto) button
9. LCD monitor
10. ▲ Arrow button (Up)
11. ▶ Arrow button (Right)
    Self-timer button
12. ▼ Arrow button (Down)
13. ◀ Arrow button (Left)
    Flash button
14. Battery / SD card cover

Mode Dial

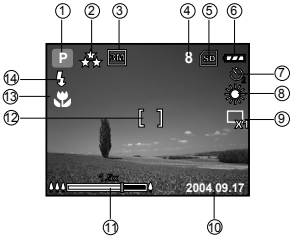
You can select from seven shooting modes and setup mode according to shooting conditions to achieve the desired effect.



		Mode	Description
1.	⏻	Power button	Press to turn on/off the power.
2.	**P**	Program	Select this mode to permit the shutter speed and aperture to be set automatically.
3.	**A**	Auto	Select this mode to adjust point-and-shoot action.
4.		Video	Select this mode to record video clips.
5.		Portrait	Select this mode to make people stand out with the background out-of-focus.
6.		Landscape	Use this mode to take photographs of distant scenery or landscapes.
7.		Sports	Use this mode to shoot fast moving objests.
8.		Night	Select this option to take photographs of people against a dusk or night-time background.
9.		Setup	Select this mode to adjust the camera settings.

LCD Monitor Information

■ **Camera Mode**



1. Mode indication
   - [A] Auto Mode
   - [ ] Setup Mode
   - [ ] Video Mode
   - [ ] Landscape Mode
   - [P] Program Mode
   - [ ] Sports Mode
   - [ ] Portrait Mode
   - [ ] Night Mode
2. Image quality
   - [ ] FINE
   - [ ] NORMAL
   - [ ] ECONOMY
3. Image size
   - [5M] 2560 x 1920
   - [3M] 2048 x 1536
   - [1.2M] 1280 x 960
   - [0.3M] 640 x 480
4. Possible number of shots
5. Internal memory/SD memory card indicator
   - [ ] Status of internal memory
   - [SD] Status of SD memory card
6. Remaining battery status
   - [ ] Full battery power
   - [ ] Medium battery power
   - [ ] Low battery power
   - [ ] No battery power
7. Self-timer mode
   - [OFF] OFF
   - [2] 2 sec. delay
   - [10] 10 sec. delay
   - [10+2] 10+2 sec. delay
8. White balance
   - AUTO
   - [ ] DAYLIGHT
   - [ ] CLOUDY
   - [ ] SUNSET
   - [ ] TUNGSTEN
   - [ ] FLUORESCENT
9. Capture mode indicator
   - [ ] SINGLE
   - [ ] BURST
   - [ ] AEB
10. Date
11. Zoom state
12. Focus area
13. Focus indicator
    (no indication for auto focus)
    - AUTO
    - [ ] MACRO
    - [∞] INFINITY
14. Flash mode
    - [A] Auto Flash (Default)
    - [ ] Red Eye
    - [ ] Forced flash
    - [ ] No Flash

■ Video Mode

1. Video mode
2. Recordable movie time available
3. SD memory card indicator (if present)
4. Battery power indicator
5. Focus area

■ Image Playback

1. Playback mode
2. SD memory card indicator (if present)
3. Battery power indicator
4. Playback information

■ Video Playback

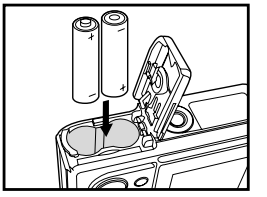
1. Playback mode
2. Video mode
3. SD memory card indicator (if present)
4. Battery power indicator
5. Playback indicator
6. Playback information

PREPARING THE CAMERA

Installing the Batteries

You can use 2 AA size batteries to power the camera. Make sure that the power of the digital camera is off before inserting or removing the batteries.

1. Make sure the camera is turned off.
2. Open the battery cover.
3. Insert the batteries in the correct orientation as shown in the illustration.
4. Close the battery cover.
   - To remove the batteries,turn the camera off before removing batteries and hold the camera with the battery cover facing upward, then open the battery cover.

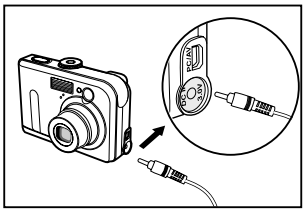


- Be careful not to drop the batteries when opening or closing the battery cover.

Using the AC Power Adapter

Use of the AC power adapter is recommended if you intend to use the LCD monitor for a long time or connect the camera to a PC.

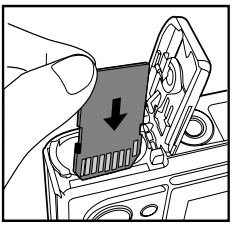
1. Make sure your camera is turned off.
2. Connect one end of the AC power adapter to the camera jack labeled "DC IN 3.0V".
3. Connect the other end to an electrical outlet.



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

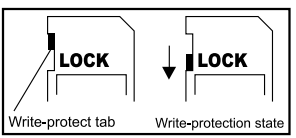
Inserting and Removing an SD Memory Card (Optional Accessory)

The digital camera comes with 12MB of internal memory, allowing you to store captured still images or video clips in the digital camera. Moreover, you can also expand the memory capacity by using an optional SD (Secure Digital) memory card so that you can store more files.



1. Make sure your camera is turned off before inserting or removing a memory card.
2. Open the SD memory card cover.
3. Insert an SD memory card in the correct orientation as shown in the illustration.
4. Close the battery/SD memory card cover.
   - To remove the SD memory card, make sure the camera is turned off. Press lightly on the edge of the memory card and it will eject.

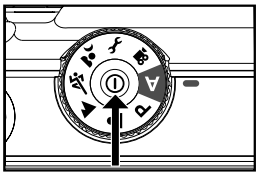
- Be sure to format an SD memory card with this digital camera before using it. Refer to section in the manual titled **"Formatting an SD Memory Card or Internal Memory"** for further details.
- To prevent valuable data from being accidentally erased from an SD card, you can slide the write protect tab (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.



GETTING STARTED

Turning the Power On/Off

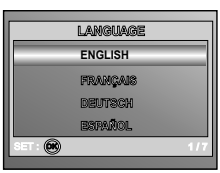
- Press the ⏻ button until the digital camera turns on.
- To turn the power off, press the ⏻ button again.



Choosing the Screen Language

Follow the steps below to choose the desired language.

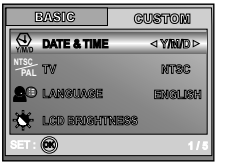
1. Rotate the mode dial to 🔧 and turn your camera on by pressing the ⏻ button.
2. Press ▶ to select the [CUSTOM] menu.
3. Use ▼ to select [LANGUAGE], then press the OK button.
4. Use ▲ or ▼ to select the language you want.
5. Press the OK button to confirm.

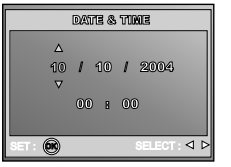


Setting the Date and Time

Follow the steps below to set the date display style, current date and time.

1. Rotate the mode dial to and turn your camera on by pressing the button.
2. Press ▶ to select the [CUSTOM] menu.
3. Use ▼ to select [DATE & TIME], then press the (OK) button.
   - You may press ◀ or ▶ to switch the date types.
4. Press the ◀ / ▶ buttons to select Year, Month, Day and Time fields.
   - To increase a value, press the ▲ button.
   - To decrease a value, press the ▼ button.
   - The time is displayed in 24-hours format.
5. Press the (OK) button after all fields are set.

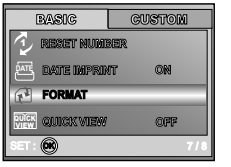




Formatting an SD Memory Card or Internal Memory

The term “Formatting” means preparing an “SD Memory Card” to record images; this process is also called “initialization”. This utility formats the internal memory (or memory card) and erases all stored images and data.

1. Rotate the mode dial to and turn your camera on by pressing the button.
   - The [BASIC] menu is displayed.
2. Use ▼ to select [FORMAT], then press the (OK) button.
3. Use ▲ or ▼ to select [YES], then press the (OK) button to confirm.

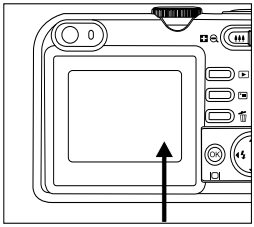


- When you format an SD memory card, be aware that all data of which will be permanently erased. Protected images are also erased.
- To format the internal memory, do not insert a memory card into the camera. Otherwise, you will format the memory card.
- Formatting is an irreversible action and data cannot be recovered at a later time.
- An SD memory card having any problem cannot be properly formatted.

Using the LCD Monitor

Your camera is equipped with a 2.0" full color TFT LCD monitor to help you compose images, replay recorded images/video clips or adjust menu settings. The mode icons, text and numbers displayed on the monitor may vary according to the current settings.

1. Rotate the mode dial to **A** , **P** , , , , , or .
2. Press the ⏻ button to turn on the power.
3. Compose your scene on the LCD monitor.
4. Press the shutter button.



- The LCD monitor darkens in strong sunlight or bright light. This is not a malfunction.
- To prevent your images from being blurred while pressing the shutter button, always hold it carefully. This is especially important when you are shooting under low lighting conditions, which your camera may decelerate the shutter speed to ensure your images are properly exposed.

PHOTOGRAPHY MODE

Shooting Images - The Basics

1. Rotate the mode dial to **A** , **P** , , , , or and turn your camera on by pressing the button.
2. Compose the image on the monitor screen so that the main subject is within the focus frame.
3. Press the shutter button down half way to focus the image.
   - When you press the shutter button down half way, the camera's Auto Focus feature automatically focuses the image and exposure.
4. Press the shutter button the rest of the way down to capture the image.

- The actual captured image appears to be larger than the one on LCD after image captured.
- Pressing the button switches the LCD monitor display mode. Each time you press the button, the display changes in the following order: Focus Frame On → Indicators Off → Composition Line On → LCD Off.

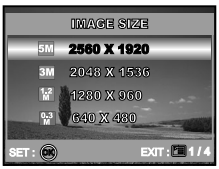
Setting Image Resolution and Quality

As you get to know the digital camera, you can set the image resolution (number of vertical and horizontal pixels) and image quality (compression ratio) based on the types of images you want to shoot. These settings affect the number of images that can be stored in memory, or on a memory card.

Higher resolution and higher quality images provide finer detail but cause the images' file size to be larger.

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

1. Rotate the mode dial to **A** , **P** , , , or and turn your camera on by pressing the button.
2. Press the button.
   - The [PICTURE] menu is displayed.
3. Use ▼ to select [IMAGE SIZE], then press the button.
4. Use ▲ or ▼ to select the desired setting, then press the button to confirm.
5. Follow the step 3 and 4 above to set the [QUALITY].



- The possible number of shots and recording time depend on the storage size, resolution and quality settings and the subject of the image to be captured.
- You can resize the images later. (Please refer to section in this manual titled "**Resizing an Image**" for further detail.)

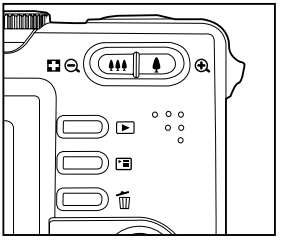
Using the Zoom Function

This camera is equipped with 3x optical zoom. The lens moves during the optical zoom photography, allowing you to capture telephoto and wide-angle shots. By using the optical zoom function; images appear closer by pressing the button, or smaller away by pressing the button.

Moreover, you can further enlarge the subjects with 4x digital zoom by pressing continuously the button. It is activated after your camera reaches its maximum optical zoom factor (3x). A useful feature as it is, however, the more the image is magnified, the grainier the image may become.

To capture a zoomed image, perform the following steps:

1. Press the button to turn on the power.
2. Adjust the magnification ratio by using the / button.
   - To access the optical zoom function, press the button as far as it can go. Press it again to activate the digital zoom.
   - To exit the zoom photography, press continuously the button.
   - The status of digital magnification is displayed on the LCD monitor.
3. Compose your scene and press the shutter button.

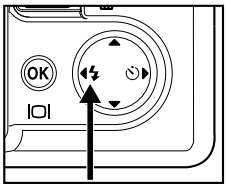


- The digital magnification ranges from 1.0x to 4.0x.
- As you record video clips, the zoom function cannot be activated.

Using the Flash

The flash is designed to function automatically when lighting conditions warrant the use of flash. You can take an image using a desired flash mode to suit your circumstances.

1. Rotate the mode dial to **A** , **P** , , , , or .
2. Press the button to turn on the power.
3. Toggle ◀ / ϟ until your desired flash mode appears on the LCD monitor.
4. Compose your scene and press the shutter button.

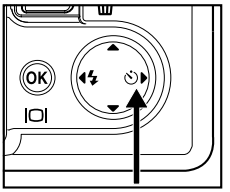


The camera has four flash modes:Auto Flash, Red Eye, Forced Flash and No Flash. The table below will help you to choose the appropriate flash mode:

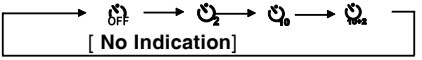
Flash mode	Description
AUTO FLASH	The flash fires automatically according to suit the photographic conditions.
RED EYE	Use this mode to reduce the red-eye phenomenon when you want to take natural-looking photographs of people and animals in low-light conditions. When taking photographs, the red-eye phenomenon can be reduced by asking the subject (person) to look at the digital camera or get as close to the digital camera as possible.
FORCED FLASH	The flash will always fire regardless of the surrounding brightness. Select this mode for recording images with high contrast (backlighting) and deep shadows.
NO FLASH	Use this mode in the environment that the flash use is prohibited or under the situation that the distance to the subject is too far away for the flash to have any effect.

Using the Self-Timer

The self-timer can be used in situations such as group shots. When using this option, you should either mount the camera on a tripod (recommended) or rest it on a flat, level surface.



1. Secure the camera to a tripod or place it on a stable surface.
2. Rotate the mode dial to **A** , **P** , , , or .
3. Press the ⏻ button to turn on the power.
4. Toggle ▶ / ⏲ until your desired self-timer mode appears on the LCD monitor.



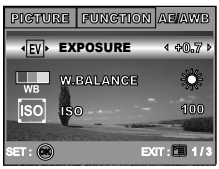
5. Compose your scene and press the shutter button.
   - The self-timer function is activated.
   - The photography is then taken after the preset time.
   - To cancel the self-timer at any time, press the shutter or ⏻ button, switch the mode dial to another mode or press ▶ to disrupt the sequence.

- After one shot is taken, the self-timer mode is turned off.
- If you wish to take another image using the self-timer, repeat these steps.

Adjusting the Exposure (EV Compensation)

You can manually adjust the exposure determined by the digital camera. Use this mode when the proper exposure cannot be obtained, for example, when the contrast (different between light and dark) between the subject and the background is extremely large. The EV compensation value can be set in the range from -2.0EV to +2.0EV.

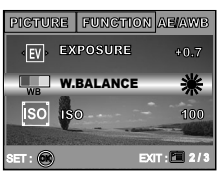
1. Rotate the mode dial to **P** , , , or .
2. Press the button to turn on the power.
3. Press , then use ▶ to select the [AE/AWB] menu.
4. Use ▼ to select [EXPOSURE], then use ◀ or ▶ to set the range of EV compensation value from –2.0EV to +2.0EV.
5. To exit from the menu, press the button.

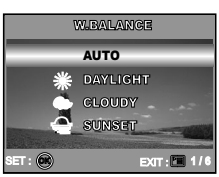


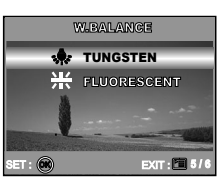
Setting White Balance

This feature lets you make adjustments to compensate for different lighting types according to your shooting conditions.

1. Rotate the mode dial to **P** , , , or .
2. Press the button to turn on the power.
3. Press , then toggle ▶ to select the [AE/AWB] menu.
4. Use ▼ to select [W. BALANCE], then press the OK button.
5. Use ▲ or ▼ to select the desired setting, then press the OK button to confirm.
6. To exit from the menu, press the button.







USING THE MODE DIAL

Auto Mode -

A (Auto) mode is the simplest way which allows you to take still pictures without having to set special functions or manual adjustments. The camera sets the optimal focusing and exposure.

1. Rotate the mode dial to **A** mode and turn your camera on by pressing the ⏻ button.
2. Compose your subject within the focus frame.
3. Press the shutter button down halfway to focus the image.
   - When you press the shutter button down half way, the camera's Auto Focus feature automatically focuses the image and exposure.
4. Press the shutter button the rest of the way down to capture the image.

Program Mode -

In **P** (Program) mode, the camera automatically sets the shutter speed and aperture for taking still images. You can adjust other functions, such as flash mode or continuous shooting mode.

1. Rotate the mode dial to **P** mode and turn your camera on by pressing the ⏻ button.
2. Compose your subject within the focus frame.
3. Press the shutter button to capture the image.

Portrait Mode -

Select this mode to make people stand out with the background out-of-focus.

1. Rotate the mode dial to 👤 mode and turn your camera on by pressing the ⏻ button.
2. Compose your subject within the focus frame.
3. Press the shutter button to capture the image.

Landscape Mode

This mode allows you to take photographs of distant scenery or landscapes.

1. Rotate the mode dial to ▲ mode and turn your camera on by pressing the ⏻ button.
2. Compose your subject within the focus frame.
3. Press the shutter button to capture the image.

Sports Mode

This mode allows you to shoot fast moving objects.

1. Rotate the mode dial to 🏃 mode and turn your camera on by pressing the ⏻ button.
2. Compose your subject within the focus frame.
3. Press the shutter button to capture the image.

Night Mode

This mode allows you to take photographs of people against a dusk or night-time background.

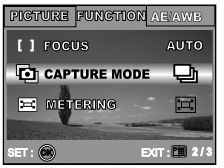
1. Rotate the mode dial to 🌙👤 mode and turn your camera on by pressing the ⏻ button.
2. Compose your subject within the focus frame.
3. Press the shutter button to capture the image.

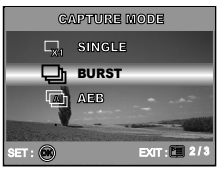
ADVANCED SHOOTING

Burst

This mode is used for continuous shooting. 3 pictures are taken continuously once the shutter button is pressed.

1. Rotate the mode dial to **P** , , , , or and turn your camera on by pressing the button.
2. Press , then use ▶ to select the [FUNCTION] menu.
3. Use ▼ to select [CAPTURE MODE], then press the button.
4. Use ▲ or ▼ to select [BURST], then press the button.
5. To exit from the menu, press the button.
   - The indicator is displayed on the monitor screen.
6. Press the shutter button halfway to lock the focus.
7. Press the shutter button all the way to shoot.



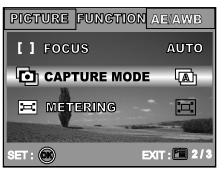


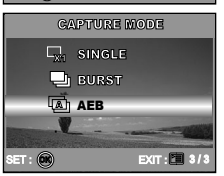
■ In Burst mode, the flash mode will be set to **OFF** automatically.

Auto Exposure Bracketing (AEB)

In this mode, the camera automatically changes the exposure within a set range to take three shots after you press the shutter button once. AEB settings can be combined with exposure compensation settings to extend the adjustment range.

1. Rotate the mode dial to **P** , , , , or and turn your camera on by pressing the button.
2. Press , then use ▶ to select the [FUNCTION] menu.
3. Use ▼ to select [CAPTURE MODE], then press the button.
4. Use ▲ or ▼ to select [AEB], then press the button.
5. To exit from the menu, press the button.
   - The indicator is displayed on the monitor screen.
6. Press the shutter button to shoot.



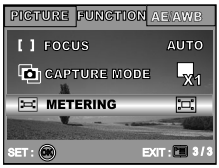


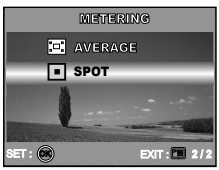
■ In AEB mode, the flash mode will be set to **OFF** automatically.

Selecting the Metering Mode

You can select the metering mode that sets which part of the subject to measure to determine the exposure.

1. Rotate the mode dial to **P** , , , , or and turn your camera on by pressing the button.
2. Press , then use ▶ to select the [FUNCTION] menu.
3. Use ▼ to select [METERING], then press the button.
4. Use ▲ or ▼ to select the desired metering mode, then press the button.
   - [AVERAGE]: Averages the light metered from the entire frame, but gives greater weight to the subject matter at the center.
   - [SPOT]: Meters the area within the spot automatic exposure point frame at the center of the LCD monitor.
5. To exit from the menu, press the button.
6. Compose your subject within the focus frame.
7. Press the shutter button to capture the image.





PLAYBACK MODE - THE BASICS

Viewing Images

You can display the still images you have just captured at a time.

1. Press the ⏻ button to turn on the camera.
2. Press the ▶ (Playback) button.
   - The last recorded image appears on the LCD monitor.
3. Use ◀ or ▶ to select the desired images.
   - To view the previous image, press the ◀ button.
   - To view the next image, press the ▶ button.

- The playback information displayed on the LCD monitor will disappear after seconds of time.
- If there is no image stored in the internal memory or on the memory card. [NO IMAGE] message will appear on the monitor.

Magnifying Images

While reviewing your images, you may enlarge a selected portion of an image. This magnification allows you to view fine details. The zoom factor displayed on the screen shows the current magnification ratio.

1. Press the ▶ (Playback) button.
   - The last recorded image appears on the LCD monitor.
   - To view the previous image, press the ◀ button.
   - To view the next image, press the ▶ button.
2. Adjust the zoom ration by using the Zoom 🌲🌲 / 🌲 button.
   - To enlarge the selected image, press the 🌲 button.
   - To return to the normal image, press the 🌲🌲 button.
   - The magnification factor is displayed on the LCD monitor.
3. To view different portion of the images, press the ▲ / ▼ / ◀ / ▶ button to adjust the display area.

- The magnification factors range from 1x to 4x (within 7 stages: 1.0x, 1.5x, 2.0x, 2.5x, 3.0x, 3.5x and 4.0x).

Thumbnail Display

This function allows you to view 9 thumbnail images on the LCD monitor simultaneously so you may search for a particular image.

1. Press the ▶ (Playback) button.
   - The last recorded image appears on the LCD monitor.
2. Press the 🔭 / ▪ button once.
   - Nine thumbnail images are displayed simultaneously.
   - For recorded video clips, the 🎥 video mode icon will be displayed.
3. Use the ▲ / ▼ / ◀ / ▶ button to move the cursor to select the image to be displayed at regular size.
4. Press the OK button to display the selected image on full screen.

Slideshow Display

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

1. Press the ▶ (Playback) button.
   - The last recorded image appears on the LCD monitor.
2. Press ☰ , then use ▼ to select [SLIDE SHOW] and press the OK button.
3. Use ▲ or ▼ to set the playback interval, then press the OK button.
   - The slide show starts.
   - The video clips are displayed the first frame image, and not played back.
   - To stop slide show, press the OK button.

- You can adjust the slide show display interval within the range of 3 SEC., 5 SEC., 10 SEC.

Resizing an Image

You can change the image size of a captured image to one of the following sizes: 2560 x 1920 pixel, 2048 x 1536 pixel, 1280 x 960 pixel and 640 x 480 pixel.

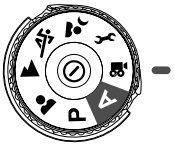
1. Press the ▶ (Playback) button.
   - The last recorded image appears on the LCD monitor.
2. In ▶ (Playback) mode, use ◀ or ▶ to select the desired images.
   - To view the previous image, press the ◀ button.
   - To view the next image, press the ▶ button.
3. Press ☰ to access in PLAYBACK menu, then use ▲ or ▼ to select [RESIZE] and press the OK button.
4. Use ▲ or ▼ to select the desired setting, then press the OK button to confirm.

VIDEO MODE

Recording Video Clips

This mode allows you to record video clips with sound via built-in microphone.

1. Rotate the mode dial to 🎥 mode and turn your camera on by pressing the ⏻ button.
2. Press the shutter button to start recording.
3. To stop recording, press the shutter button again.



- The zoom function of optical zoom (3x) can be activated before you start to record video clips.
- Pressing the DISP button switches the LCD monitor display mode. Each time you press the DISP button, the display changes in the following order: Focus Frame On → Indicators Off → Composition Line On → LCD Off.

Playing Back Video Clips

You can play back recorded video clips. A guide to operation appears on the LCD monitor during the video playback.

1. Press the ▶ (Playback) button.
2. Use ◀ or ▶ to go through the images until the video clip you want to play back is displayed.
   - To view the previous image, press the ◀ button.
   - To view the next image, press the ▶ button.
3. Press the OK button to start playing back the video clips.
   - To pause or resume video playback, press the OK button again.

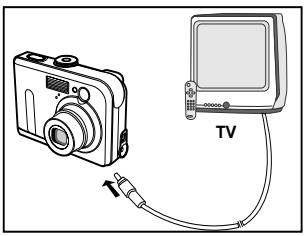
- The playback information displayed on the LCD monitor will disappear after seconds of time.
- The zoom function cannot be activated while playing the video clips back.
- To playback the video clips on the computer, we recommend you to use Windows Media Player 9.0 (WMP 9.0). You can download WMP version from the website at www.microsoft.com.

PLAYBACK MODE – ADVANCED FEATURES

Playing Back Still Images/Video Clips on TV

You can also playback your images on a TV screen. Before connecting to any device, make sure to select NTSC/PAL system to match the video output system of the video equipment you are going to connect to the digital camera, then turn all connected devices off.

1. Connect one end of the A/V cable to the A/V terminal of the digital camera.
2. Connect the other end to the A/V input socket of the TV set.
3. Turn the TV and digital camera on.
4. Playback the images/video clips.
   - The method of operation is the same as playing back still images and video clips on the digital camera.



- The sound recorded with video clips can only be played back on TV or computers.

Deleting Images/Video Clips

Use this function to delete one or all images/video clips stored in the internal memory or memory card. Please note that the deleted images or video clips cannot be recovered. Exercise caution before deleting a file.

■ To delete the latest single image/video clip

1. Press the ⏻ button to turn on the power.
2. Press 🗑 . When the delete message appears, use ▲ or ▼ to select [YES], then press the OK button to delete the last image or video clip.
   - ■ If you wish to cancel the deletion, select [NO].

■ To delete image/video clip by preference

1. Press the ▶ (Playback) button.
   - ■ The last recorded image appears on the LCD monitor, which can also be deleted directly by pressing 🗑.
2. Use ◀ or ▶ to select the image you want to delete.
3. Press ☰ , then use ▲ or ▼ to select [DELETE] and press the OK button.
4. Use ▲ or ▼ to select [THIS IMAGE] or [ALL IMAGES] by your preference, then press the OK button.
5. When the delete message appears, use ▲ or ▼ to select [YES], then press the OK button to confirm the deletion.
   - ■ If you wish to cancel the deletion, select [NO].

■ Protected images cannot be deleted with the delete function.

Protecting Images/Video Clips

Set the data to read-only to prevent images from being erased by mistake.

1. Press the ▶ (Playback) button.
   - The last recorded image appears on the LCD monitor.
2. In ▶ (Playback) mode, use ◀ or ▶ to select the desired images.
   - To view the previous image, press the ◀ button.
   - To view the next image, press the ▶ button.
3. Press MENU, then use ▼ to select [PROTECT] and press the OK button.
4. Use ▲ or ▼ to choose the desired setting, then press the OK button.
   - [PROTECT ONE]: Protect one image/ movie.
   - [PROTECT ALL]: Protect all images/ movies (at once).
5. Use ▲ or ▼ to select [LOCK], then press the OK button to confirm.
   - Press MENU to return to the ▶ (Playback) mode.
     The 🔑 indicator appears on the selected image.
   - If you wish to cancel the protect function, select [UNLOCK].

Setting the DPOF

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

■ **To configure print settings for a single image / all images.**

Step	Figure	Procedure
1		Press the ▶ (Playback) button, then use ◀ or ▶ to select the desired image you want to mark 🖶 . * The playback information displayed on the LCD monitor will disappear after seconds of time.
2		Press the ☰ button. Use ▲ or ▼ to select [DPOF], then press the (OK) button.
3		Use ▲ or ▼ to select by your preference, then press the (OK) button. [ONE IMAGE]: To configure print settings for a single image. [ALL IMAGES]: To configure print settings for all images. [RESET ALL]: Returns all basic settings to the digital camera's default settings.
4	 	Use ▲ or ▼ to select by your preference, then press the (OK) button. [QUANTITY]: Allows you to select image quantity (0~10). Use ◀ or ▶ to set the image quantity. [DATE]: The date of recording can be printed directly on the images. Choose [YES] or [NO] with ◀ or ▶ . [RETURN]: To exit the mark function, use ▲ or ▼ to select [RETURN], then press the (OK) button.

Step	Figure	Procedure
5		Press [MENU] to return to the image playback mode. * The [print] is marked on the displayed image.
		To unmark the [print] mark, go back to step 3 to select [RESET ALL] with ▲ or ▼.

- Before you perform the DPOF settings on your camera, always remember to copy your images from the internal memory to an SD memory card first.
- The [print] print icon will appear on the monitor indicating images selected for printing.
- You cannot print movies.

Connecting to a PictBridge Compliant Printer

Even if you do not have a computer, you can connect the camera directly to a printer that supports PictBridge to perform image selection and printing using the camera monitor screen and controls. DPOF support also lets you specify which images you want to print and how many copies of each should be printed.

Connecting the camera to the printer

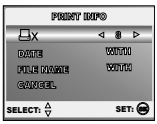
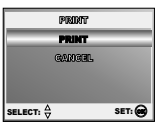
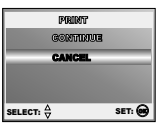
1. Rotate the mode dial to ✎ and turn your camera on by pressing the ⏻ button.
2. Press ▶ to select the [CUSTOM] menu, then use ▼ to select[USB].
3. Press the OK button.
4. Use ▲ or ▼ to select [PRINT], then press the OK button.
5. Connect your camera and the printer via a supplied USB cable.
   - The screen turns off automatically and the setting screen wil appear on the monitor after seconds of time.

Printing images

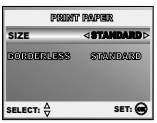
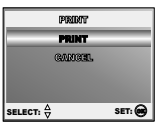
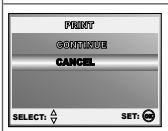
When the camera is properly connected to a PictBridge compliant printer, the [PRINT MODE SELECT] screen is displayed on the monitor. Use ▲ or ▼ to select the print mode.

- **In [PRINT] Mode**: Lets you print the specified image with PictBridge.

Step	Figure	Procedure
1		Use ▲ or ▼ to select the [PRINT] mode, then press the OK button. * The [PRINT PAPER] screen is displayed.
2		Use ▲ or ▼ to access in the selection of paper setting, then press the OK button to confirm. [SIZE]: You may select the desired item depending on the type of printer being used. [BORDERLESS]: You may select the desired item depending on the type of printer being used.

Step	Figure	Procedure
3		Use ◀ or ▶ to select the image you want to print, then press ▼ to proceed more detailed settings. * The [PRINT INFO] screen is displayed.
4		Use ▲ or ▼ to select by your preference, then press the OK button. [X] : Specifies the number of prints. You can select the number up to 10. [DATE]: If you select WITH, images are printed with the date. [FILE NAME]: If you select WITH, images are printed with the file name. [CANCEL]: To cancel the print settings, use ▲ or ▼ to select [CANCEL].
5		After the step 4 finished, you can still use ◀ or ▶ to change the image by your preference, then press the OK button to print.
6		Use ▲ or ▼ to select [PRINT], then press the OK button to confirm. * The TRANSFERRING screen is displayed.
7		This starts printing and displays the message “TRANSFERRING” on the monitor screen.The message will disappear after the printing finished.
		* To cancel printing: Pressing the OK button during print data transfer displays the screen for selecting whether to [CONTINUE] or [CANCEL] printing.

■ **In [PRINT ORDER] Mode**: This function only lets you print the specified image based on the previous DPOF settings.

Step	Figure	Procedure
1		Use ▲ or ▼ to select the [PRINT ORDER] mode, then press the (OK) button. * The [PRINT PAPER] screen is displayed.
2		Use ▲ or ▼ to access in the selection of paper setting, then press the (OK) button to print. [SIZE]: You may select the desired item depending on the type of printer being used. [BORDERLESS]: You may select the desired item depending on the type of printer being used.
3		Use ▲ or ▼ to select [PRINT], then press the (OK) button to confirm. * The TRANSFERRING screen is displayed.
4		This starts printing and displays the message "TRANSFERRING" on the monitor screen. The message will disappear after the printing finished.
		* To cancel printing: Pressing the (OK) button during print data transfer displays the screen for selecting whether to [CONTINUE] or [CANCEL] printing.

TRANSFERRING FILES FROM YOUR DIGITAL CAMERA TO COMPUTER

After using USB cable to establish a USB connection between the camera and your computer, you can use your computer to share recorded images or video clips with your family or friends via e-mail or post them on the Web. In order to do this, you must install the USB driver onto your computer first. Note that before you begin to install the software, you need to check your system according to the table as shown below.

	System Requirements (Windows)	**System Requirements (Macintosh)**
CPU	Pentium III 600 MHz processor or higher	PowerPC G3/G4
Operating System	Windows 98/98SE/ME/2000/XP	OS 9.0 or higher
RAM	32MB (64MB RAM recommended)	32MB (64MB RAM recommended)
Hard Disk Space	128MB hard disk space	128MB hard disk space
Required Devices	A CD-ROM drive An available USB port	A CD-ROM drive An available USB port
Display	Color Monitor (800x600, 24-bit higher recommended)	Color Monitor (800x600, 24-bit or higher recommended)

Step 1: Install the USB driver

■ **Installation on Windows 98 & 98SE**

The USB driver on the supplied CD-ROM is exclusively for Windows 98 and 98SE. Windows 2000/ME/XP users need not install the USB driver.

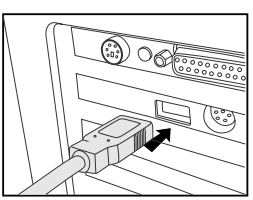
1. Insert the enclosed CD-ROM into your CD-ROM drive.
2. When the welcome screen appears, click "**INSTALL USB DRIVER** ". Follow the on-screen instructions to complete the installation.
3. After the USB driver has been installed, restart your computer.

■ **Installation on MAC OS 9.0**

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

Step 2: Connect the digital camera to your computer

1. Rotate the mode dial to ✎ and turn your camera on by pressing the ⏻ button.
2. Press ▶ to select the [CUSTOM] menu, then use ▼ to select [USB].
3. Press the OK button.
4. Use ▼ to select [PC], then press the OK button.
5. Connect one end of the USB cable to an available USB port on your computer.
6. There will be a new "Removable Disk" icon detected in "My Computer", in which contains your recorded images or video clips.
   (For Mac users, double-click [untitled] or [unlabeled] disk drive icon on our desktop.)



Step 3: Download images or video clips

When the digital 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” or “unlabeled” disk on a Macintosh) to your computer hard drive.

■ **Windows**

Open the “removable disk” and double click on the DCIM / DSCIM folder to open it to find more folders. Your images are inside these folder(s). Select the desired still images or video clips and then choose “Copy” from the “Edit” menu. Open the destination location (folder) and choose “Paste” from the “Edit” menu. You may also drag and drop image files from the digital camera to a desired location.

■ **Macintosh**

Open the “untitled” disk icon, and the destination location on your hard disk. Drag and drop from the digital camera to the desired destination.

- Memory card users may prefer to use a memory card reader (highly recommended).
- Video playback application is not included with the package. Make sure that video playback application has been installed in your computer.

EDITING SOFTWARE INSTALLATION

Installing NTI Photo Suite

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

To install NTI Photo Suite:

1. Insert the CD-ROM that came with the camera into your CD-ROM drive. The welcome screen appears.
2. Click "**INSTALL NTI PHOTO SUITE**". Follow the onscreen instructions to complete the installation.

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

USING THE DIGITAL CAMERA AS A PC CAMERA

Your digital camera can act as a PC camera, which allows you to videoconference with business associates, or have a real-time conversation with friends or family. To use the digital camera for videoconferencing, your computer system must include the items as below:

- Microphone
- Sound card
- Speakers or headphones
- Network or Internet connection

- Video conferencing (or video editing) software is not included with the digital camera.
- This mode is not supported for Mac.

Step I: Install the PC camera driver

The PC-camera driver included in the CD-ROM is exclusively for Windows. The PC camera function is not supported for Mac platforms.

1. Insert the enclosed CD-ROM into your CD-ROM drive.
2. When the welcome screen appears, click " **DRIVER For PC CAM** ". Follow the on-screen instructions to complete the installation.
3. After the driver installation is completed, restart your computer.

Step 2: Connect the digital camera to your computer

1. Rotate the mode dial to ✎ and turn your camera on by pressing the ⏻ button.
2. Press ▶ to select the [CUSTOM] menu, then use ▼ to select [USB].
3. Press the OK button.
4. Use ▲ or ▼ to select [PC CAM.], then press the OK button.
5. Connect one end of the USB cable to an available USB port on your computer.
6. Position the digital camera steadily on top of your computer monitor or use a tripod.

■ When using this digital camera as a PC camera, it is necessary to install the battery into the digital camera.

Step 3: Run your application software (i.e. Windows NetMeeting)

To use Windows NetMeeting for videoconferencing:

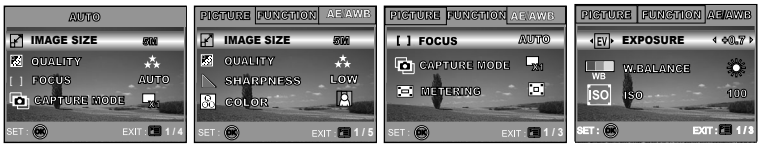
1. Go to **Start → Programs → Accessories → Communications → NetMeeting** to launch the NetMeeting program.
2. Click the Start Video button to view live video.
3. Click the Place Call button.
4. Type the e-mail address or the network address of the computer that you are calling.
5. Click Call. The person that you are calling must also have Windows NetMeeting running and be
   willing accept your call to start the videoconference.

■ The video resolution for videoconferencing applications is generally 320 x 240.
■ For more information about the operation of videoconference application software, refer to its respective help documentation.

MENU OPTIONS

Camera Menu

This menu is for the basic settings to be used when capturing still images.



1. Rotate the mode dial to **A** , **P** , , , , or and turn your camera on.
2. Press , then use ◀ or ▶ to select the [PICTURE] / [FUNCTION] / [AE/AWB] menu.
   - In **A** (Auto) Mode, press to access in menu directly.
3. Press ▲ or ▼ to select the desired setting, then press the (OK) button.
4. To exit from the menu, press the button.

■ In **A** (Auto) Mode

Item	Functional Description
IMAGE SIZE	Sets the size of the image that will be captured. * 5M 2560x1920 * 3M 2048x1536 * 1.2M 1280x960 * 0.3M 640x480
QUALITY	Sets the quality (compression rate) at which the image is captured. * ★★★ FINE * ★★ NORMAL * ★ ECONOMY

Item	Functional Description
FOCUS [ ]	You can take images with the distance to the subject set by auto focus, macro or infinity. * AUTO * MACRO * ∞ INFINITY
CAPTURE MODE	Sets the recording method at the time of taking pictures. * SINGLE * BURST * AEB

■ In **P**, , , , or Mode

PICTURE	Item	Functional Description
	IMAGE SIZE	Refer to “Camera Menu - In **A** (Auto) Mode” in LIST OF MENU OPTIONS.
	QUALITY	Refer to “Camera Menu - In **A** (Auto) Mode” in LIST OF MENU OPTIONS.
	SHARPNESS	Sets the level of image sharpness. * LOW * MEDIUM * HIGH

PICTURE	Item	Functional Description
	COLOR	Sets the color of the image that will be captured. * FULL COLOR * BLACK & WHITE * SEPIA
	SATURATION	To capture an image, your camera offers you three different degrees of color to match with your preference. Your images will demonstrate different impression by selecting different degrees of color. This is called “Saturation”. * LOW * MEDIUM * HIGH
FUNCTION	**Item**	**Functional Description**
	FOCUS [ ]	Refer to “Camera Menu - In **A** (Auto) Mode” in LIST OF MENU OPTIONS.
	CAPTURE MODE	Refer to “Camera Menu - In **A** (Auto) Mode” in LIST OF MENU OPTIONS.
	METERING	Refer to section in this manual titled “Selecting the Metering Mode” for further details.

AE/AWB	Item	Functional Description
	EXPOSURE	Sets to obtain the correct exposure when the subject is much brighter or darker than the background. The EV compensation value can be set in the range from –2.0EV to +2.0EV.
	W. BALANCE	Sets the white balance photographing under a variety of lighting conditions and permits photographs to be taken that approach the conditions that are seen by the human eye. * AUTO * DAYLIGHT * CLOUDY * SUNSET * TUNGSTEN * FLUORESCENT
	ISO	Sets the sensitivity for taking pictures. When the sensitivity is raised (and the ISO figure isincreased), photography will become possible even in dark locations, but the more pixilated (grainer) the image will appear. *AUTO / 50 / 100 / 200

Video Menu

This menu is for the basic settings to be used when recording video clips.

1. Rotate the mode dial to mode and turn your camera on.
2. Press the button.
3. Press the button to access the [COLOR] menu.
4. To exit from the menu, press the button.

Item	Functional Description
COLOR	REFER TO “Camera Menu-In the **P** , , , , or Mode” of MENU OPTIONS.

Playback Menu

In the ▶ (Playback) menu, set which settings are to be used for playback.

1. Press the ▶ (Playback) button.
   - The last recorded image appears on the LCD monitor.
2. Press ☰ , then use ▲ or ▼ to select the desired setting and press the OK button.
3. To exit from the playback menu, press the ☰ button.

Item	Functional Description
DELETE	Delete one or all images you captured. * Refer to section in this manual titled is “Deleting Images/Video Clips¨ for further details.
SLIDE SHOW	You can play back recorded images in order with a selected interval time. This function is useful for checking your images or for presentations, etc. * Refer to section in this manual titled “Slideshow Display” for further details. * 3 SEC. / 5 SEC. / 10 SEC.
PROTECT	Set the data to read-only to prevent images from being erased by mistake. * Refer to section in this manual titled “Protecting images/ Video clips” for further details.

Item	Functional Description
QUALITY CHANGE	Change to set the desired quality (compression rate) at which the image is captured. * ★★★ FINE * ★★ NORMAL * ★ ECONOMY
RESIZE	Changes the size of a recorded image. * 5M 2560x1920 * 3M 2048x1536 * 1.2M 1280x960 * 0.3M 640x480
DPOF	Allows you to select the desired pictures to be printed and set the number of prints and date displayed in DPOF format. You can print images easily just by inserting the memory card to a DPOF-compatible printer or a print shop. Refer to section in this manual titled “Setting the DPOF” for further details.
COPY TO CARD	Allows you to copy your files from the digital camera’s internal memory to a memory card. Of course, you can only do this if you have a memory card installed and some files in internal memory. * YES / NO

Setup Menu

This feature allows you to set up the default settings by preference for using your camera.

1. Rotate the mode dial to (Setup) mode and turn your camera on.
2. Press ◀ or ▶ to select the [BASIC] / [CUSTOM] menu.
3. Use ▲ or ▼ to select the desired option item, then press the (OK) button.
4. To exit from the setup menu, rotate the mode dial to other desired mode again.

■ **BASIC settings**

Item	Functional Description
BEEPER	This sets whether or not to mute the startup sound and the camera sound each time you press the camera button. * LOUDER / SOFT / OFF
POWER OFF	If no operation is performed for a specific period of time, the power to the camera is automatically turned off. This feature is useful to reduce battery wear. * 2 MIN. / 3 MIN. / 5 MIN. / OFF
DIGITAL ZOOM	This sets whether or not to use digital zoom at the time of photography. * ON / OFF

Item	Functional Description
SET TO DEFAULT	Returns all basic settings to the digital camera's default settings. The time setting will not be reset. * YES / NO
RESET NUMBER	Set whether or not to reset the file number when you take photographs. This creates a new folder. The captured images are recorded to the newly created folder 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 / NO
DATE IMPRINT	The date of recording can be printed directly on the still images. This function must be activated before the image is captured. * ON / OFF
FORMAT	Erases all images and reformats the SD card loaded in your camera. Protected images are also erased. SD card cannot be formatted if it is write-protected. Refer to section in this manual titled "Formatting an SD Memory Card or Internal Memory" for further details. * YES / NO
QUICK VIEW	Set to display a photographed image on LCD monitor immediately after you have taken the shot. * ON / OFF

■ **CUSTOM settings**

Item	Functional Description
DATE & TIME	This sets the date and the time. Refer to section in this manual titled “Setting the Date and Time” for further details. * Y/M/D * D/M/Y * M/D/Y
TV	Sets video output system of the video equipment that you are going to connect to the camera. * PAL / NTSC
LANGUAGE	Sets the language that is displayed on the LCD monitor. Refer to section in this manual titled “Choosing the Screen Language” for further details. * ENGLISH / FRANÇAIS / DEUTSCH / ESPAÑOL/ ITALIANO / 繁体中文 / 简体中文
LCD BRIGHTNESS	This sets the brightness of the LCD monitor. The adjustment range is from -5 to +5.
USB	Select to choose one of the following modes for further settings. * PC / PRINT / PC CAM.

SPECIFICATIONS

Item	Description
Image Sensor	CCD
Effective pixels	5.18 Mega pixels
Image size	Still image: 2560 x 1920, 2048 x 1536, 1280 x 960, 640 x 480 Video clip: 320 x 240 (20 fps)
Image quality	Still image: Fine, Normal, Economy Movie image: Economy
Recording media	12MB internal memory SD memory card (Optional, up to 512MB)
File format	Motion JPEG (AVI); PictBridge support PC-CAM support (QVGA @ 20fps)
Lens	F-no.: Wide: 2.8 / Tele: 4.8 Focal length: 5.4mm-16.2mm (Equivalent to 35mm Camera: 32~96 mm)
Focus range	Normal: 50 cm-infinity Wide: 6 cm-infinity Tele: 35 cm-infinity
LCD monitor	2.0" LTPS TFT-LCD High-resolution 130K pixels display
Self-timer	10 sec delay, 2 sec delay, 10+2 sec delay
Exposure compensation	-2.0EV~ +2.0EV (in 0.3EV increments)
White balance	Auto, Daylight, Cloudy, Sunset, Tungsten, Fluorescent
ISO	Auto, 50, 100, 200
Interface	DC-IN jack, USB connector, A/V terminal
Power	2 AA batteries AC-DC Adapter (3V/2.5A)
Dimension	Approx. 91 x 61 x 27 mm
Weight	Approx. 130g (without batteries and the SD memory card)

* Design and specifications are subject to change without notice.