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# INTRODUCTION

Thank you for purchasing the new digital camera!

Equipped with a 6.20 Megapixels CCD sensor, your camera delivers good quality, 2848 x 2136 resolution images. Other features provided by the camera include the following:

- **6.20 Megapixels**

A high-resolution CCD sensor provides 6.20 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 TFT-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 1GB 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 (optional)**

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
- Warranty card
- AV cable
- Camera strap
- 2 AA batteries

### Common (Optional) Accessories:

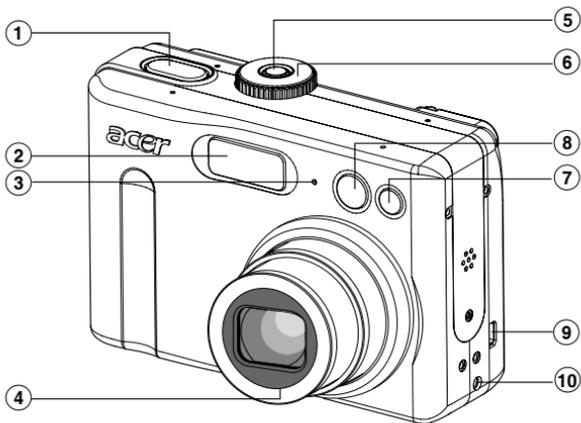
- SD memory card
- Battery charger
- AC power adapter
- Software CD-ROM
- Camera pouch



- 
- 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

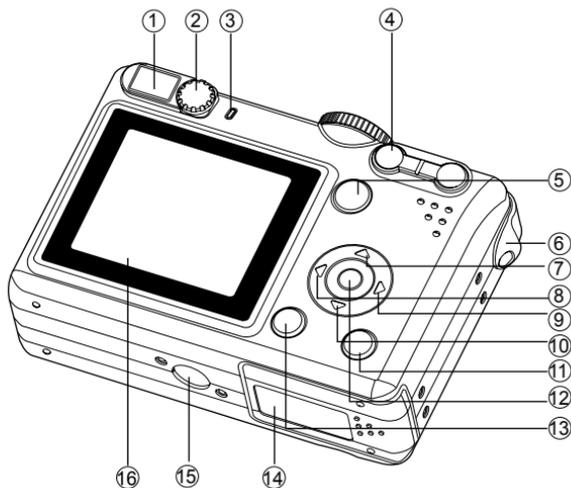
7. Self-timer LED

8. Viewfinder window

9. PC (USB) / AV OUT terminal

10. DC IN 3V terminal

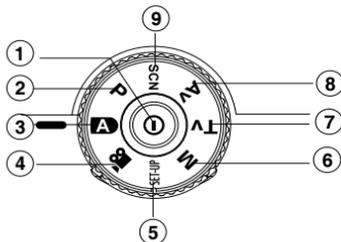
## Rear View



- |     |                              |  |  |
|-----|------------------------------|--|--|
| 1.  | Viewfinder                   |  |  |
| 2.  | Diopter adjustment dial      |  |  |
| 3.  | Viewfinder LED               |  |  |
| 4.  | Zoom in (telephoto) button   |  |  |
|     | Zoom out (wide-angle) button |  |  |
| 5.  | Playback button              |  |  |
| 6.  | Strap holder                 |  |  |
| 7.  | Arrow button (Up)            |  |  |
|     | Macro button                 |  |  |
| 8.  | Arrow button (Left)          |  |  |
|     | Flash button                 |  |  |
| 9.  | Arrow button (Right)         |  |  |
|     | Self-timer button            |  |  |
| 10. | Arrow button (Down)          |  |  |
|     | Exposure compensation button |  |  |
| 11. | Delete button                |  |  |
|     | Display button               |  |  |
| 12. | OK button                    |  |  |
| 13. | <b>MENU</b> Menu button      |  |  |
| 14. | Battery / SD card cover      |  |  |
| 15. | Tripod socket                |  |  |
| 16. | LCD monitor                  |  |  |

## Mode Dial

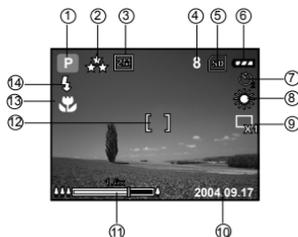
You can select from seven shooting modes and setup mode according to shooting conditions to achieve the desired effect.



	Mode		Description
1.		Power button	Press to turn on/off the power.
2.	<b>P</b>	Program	Select this mode to permit the shutter speed and aperture to be set automatically.
3.		Auto	Select this mode to adjust point-and-shoot action.
4.		Video	Select this mode to record video clips.
5.	<b>SET-UP</b>	Setup	Select this mode to adjust the camera settings.
6.	<b>M</b>	Manual	Select this mode to permit full manual control over exposure, aperture and other settings.
7.	<b>Tv</b>	Shutter speed priority	Select this mode to specify the shutter speed while the camera sets the corresponding aperture.
8.	<b>Av</b>	Aperture priority	Select this mode to specify the aperture value while the camera sets the corresponding shutter speed.
9.	<b>SCN</b>	SCENE	Point-and-shoot simplicity when taking pictures under 4 special conditions.

# LCD Monitor Information

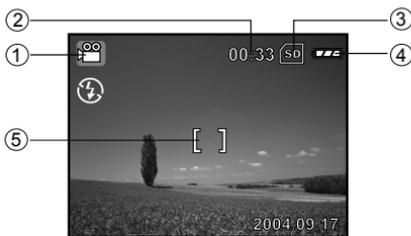
## ■ Camera Mode



1. Mode indication
  - [ P ] Program Mode
  - [ A ] Auto Mode
  - [ ] Video Mode
  - [ M ] Manual Mode
  - [ Av ] Aperture priority Mode
  - [ Tv ] Shutter speed priority
  - [ ] Scene Mode (Night scene)
2. Image quality
  - [ ] Fine
  - [ ] Normal
  - [ ] Economy
3. Image size
  - [ ] 2848 x 2136
  - [ ] 2272 x 1704
  - [ ] 1600 x 1200
  - [ ] 640 x 480
4. Possible number of shots
5. Internal memory/SD memory card indicator
  - [ ] Status of internal memory
  - [ ] 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
  - [ ] 2 sec. delay
  - [ ] 10 sec. delay
  - [ ] 10+2 sec. delay
8. White balance
  - Auto
  - [ ] Daylight
  - [ ] Cloudy
  - [ ] Tungsten
  - [ ] Fluorescent
9. Capture mode indicator
  - [ ] Single
  - [ ] Burst
  - [ ] AEB
10. Date
11. Zoom status
12. Focus area
13. Focus indicator
  - Auto
  - [ ] Macro
  - [ ] Infinity
14. Flash mode
  - [ ] Auto Flash
  - [ ] 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

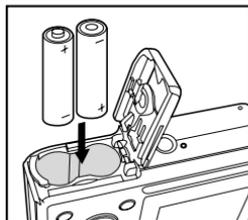


# PREPARING THE CAMERA

## 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.

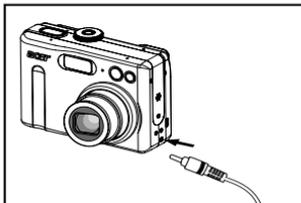


- 
- Be careful not to drop the batteries when opening or closing the battery cover.

## Using the AC Power Adapter (Optional Accessory)

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.

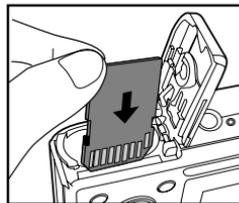


- 
- Make sure to use only the AC power adapter specified for the camera. Damage caused by the use of an incorrect adapter is not covered under the warranty.
  - To prevent unexpected auto power off resulting from no battery power left during the process of transferring your images to the computer, use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

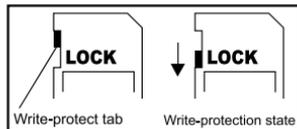
## Inserting and Removing an SD Memory Card (Optional Accessory)

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 card cover.
3. Insert an SD memory card in the correct orientation as shown in the illustration.
4. Close the SD 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.



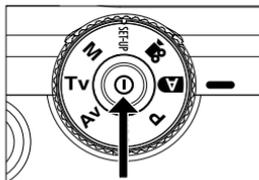
- Be sure to format an SD memory card with this digital camera before using it. Refer to section in the manual titled **“Formatting an SD Memory Card or Internal Memory”** for further details.
- To prevent valuable data from being accidentally erased from an SD card, you can slide the write protect tab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

When the camera is turned on for the first time, a language-selection screen will be displayed in the monitor. Follow the steps below to choose the desired language.

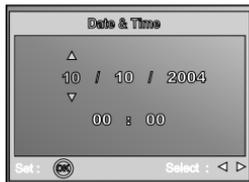
1. Rotate the mode dial to **SET-UP** and turn your camera on by pressing the  button.
  - The [Set-up1] menu is displayed.
2. Use  to select [Language], then press the  button.
3. Use  or  to select the language you want.
4. Press the  button to confirm.



## 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 **SET-UP** and turn your camera on by pressing the **⓪** button.
  - The [Set-up1] menu is displayed.
2. Use **▼** to select [Date & Time], then press the **⓪** button.
  - You may press **◀** or **▶** to switch the date types.
3. Press **◀** or **▶** to select Year, Month, Day and Time fields.
  - To increase a value, press **▲**.
  - To decrease a value, press **▼**.
  - The time is displayed in 24-hours format.
4. Press the **⓪** 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 **SET-UP** and turn your camera on by pressing the **ⓘ** button.
  - The [Set-up1] menu is displayed.
2. Use **▼** to select [Format], then press the **Ⓞ** button.
3. Use **▲** or **▼** to select [Yes], then press the **Ⓞ** button to confirm.

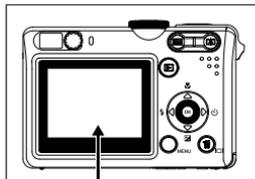


- When you format an SD memory card, be aware that all data of which will be permanently erased. Protected images are also erased.
- To format the internal memory, do not insert a memory card into the camera. Otherwise, you will format the memory card.
- Formatting is an irreversible action and data 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" LTPS 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**, **Av**, **Tv**, **M**, **SCN** 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 **P**, **Av**, **Tv**, **M** or **SCN** and turn your camera on by pressing the **ON** 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 **INFO** button switches the LCD monitor display mode. Each time you press the **INFO** 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**, **Av**, **Tv**, **M** or **SCN** and turn your camera on by pressing the **ON** button.
2. Press the **MENU** button, then use **◀** or **▶** to select the [Mode1] / [Mode2] / [Mode3] menu.
  - In **A** (Auto) Mode, press the **MENU** button to access the menu directly.
3. Use **▼** to select [Image Size], then press the **OK** button.
4. Use **▲** or **▼** to select the desired setting, then press the **OK** 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.)

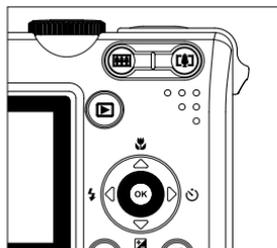
## Using the Zoom Function

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 **[Z]** button, or smaller away by pressing the **[W]** button.

Moreover, you can further enlarge the subjects with 4x digital zoom by pressing continuously the **[Z]** 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 **[P]** button to turn on the power.
2. Adjust the magnification ratio by using the **[Z]** / **[W]** button.
  - To access the optical zoom function, press the **[Z]** button as far as it can go. Press it again to activate the digital zoom.
  - To exit the zoom photography, press continuously the **[W]** button.
  - The status of digital magnification is displayed on the LCD monitor.
3. Compose your scene and press the shutter button.

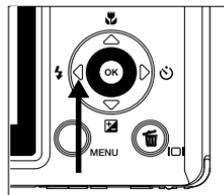


- 
- The digital magnification ranges from 1.0x to 4.0x.
  - As you record video clips, the zoom function cannot be activated.

## 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 **Av**, **P**, **Av**, **Tv**, **M** or **SCN**.
2. Press the **ON** button to turn on the power.
3. Toggle **◀ / ⚡** until your desired flash mode appears on the LCD monitor.
4. Compose your scene and press the shutter button.



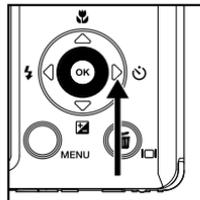
The table below will help you to choose the appropriate flash mode:

Flash mode	Description
<b>⚡</b> AUTO FLASH	The flash fires automatically according to suit the photographic conditions.
<b>⚡</b> 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.
<b>⚡</b> 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.
<b>ⓧ</b> 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**, **Av**, **Tv**, **M** or **SCN**.
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  $-2.0\text{EV}$  to  $+2.0\text{EV}$ .

1. Rotate the mode dial to **P**, **Av**, **Tv**, **M** or **SCN**.
2. Press the  $\odot$  button to turn on the power.
3. Press the  $\square$  button.
4. Use  $\blacktriangleleft$  or  $\blacktriangleright$  to set the range of EV compensation value from  $-2.0\text{EV}$  to  $+2.0\text{EV}$ .
5. To exit from the menu, press the  $\odot$  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**, **Av**, **Tv**, **M** or **SCN**.
2. Press the  $\odot$  button to turn on the power.
3. Press the **MENU** button, the [Mode1] menu is displayed.
4. Use  $\blacktriangledown$  to select [W. Balance], then press the  $\odot$  button.
5. Use  $\blacktriangle$  or  $\blacktriangledown$  to select the desired setting, then press the  $\odot$  button to confirm.
6. To exit from the menu, press the **MENU** button.

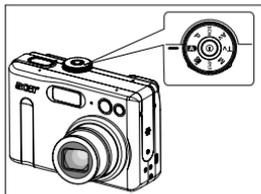


# USING THE MODE DIAL

## Auto Mode [ **A** ]

**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.

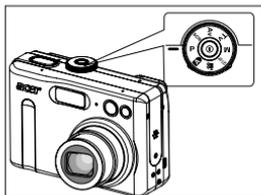
1. Rotate the mode dial to **A** and turn your camera on by pressing the **ON** button.
2. Compose your subject within the focus frame.
3. Press the shutter button down halfway to focus the image.
  - When you press the shutter button down half way, the camera's Auto Focus feature automatically focuses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



## Program Mode [ **P** ]

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** and turn your camera on by pressing the **ON** button.
2. Compose your subject within the focus frame.
3. Press the shutter button to capture the image.



## Shutter Speed Priority Mode [ **Tv** ]

If you set a fast shutter speed, you can capture images of moving subjects that look as if they are still. If you set a slow shutter speed, you can capture images that give the impression that the subject is in motion.

1. Rotate the mode dial to **Tv** and turn your camera on by pressing the **ON** button. A guide appears for a few seconds.
2. Press the **OK** button.
3. Set the aperture value with **◀** or **▶**, and press the **OK** button.
4. Compose your subject within the focus frame.
5. Press the shutter button to capture the image.



## Aperture Priority Mode [ Av ]

In this mode, images are captured with the priority given to aperture. The shutter speed is automatically set according to the aperture. The aperture will affect the depth-of-field of the picture.

If you set a large aperture (lower F value), you can capture portrait images with an out-of-focus background. Alternatively, if you set a small aperture (higher F value), both close objects and distant objects will be in focus, for example when capturing subjects in the foreground together with landscape images.

1. Rotate the mode dial to **Av** and turn your camera on by pressing the **⏻** button. A guide appears for a few seconds.
2. Press the **OK** button.
3. Set the aperture value with **◀** or **▶**, and press the **OK** button.
4. Compose your subject within the focus frame.
5. Press the shutter button to capture the image.



## Manual Mode [ M ]

In manual mode, the aperture value and the shutter speed can be varied individually. This can be useful for compensating tricky lighting conditions, for getting creative results or for capturing night-time scenes.

1. Rotate the mode dial to **M** and turn your camera on by pressing the **⏻** button. A guide appears for a few seconds.
2. Press the **OK** button.
3. Use **▲** or **▼** to select aperture/shutter speed item.
4. Adjust the value with **◀** or **▶**, and press the **OK** button.
5. Compose your subject within the focus frame.
6. Press the shutter button to capture the image.



## Scene Mode [ SCN ]

You can select the scene mode according to the shooting scene. There are 4 available modes in this scene mode.

- [  ] Night scene: This mode allows you to take photographs of people against a dusk or night-time background.
- [  ] Landscape: This mode allows you to take photographs of distant scenery or landscapes.
- [  ] Portrait: Select this mode to make people stand out with the background out-of-focus.
- [  ] Sports: This mode allows you to shoot fast moving objects.

1. Rotate the mode dial to **SCN** and turn your camera on by pressing the  button. A guide appears for a few seconds.
2. Press the  button.
3. Use  or  to select the desired scene mode.
4. Press the  button to confirm the selection.
5. Compose your subject within the focus frame.
6. Press the shutter button to capture the image.



- Press the shutter button halfway to confirm if the exposure is set correctly on the LCD monitor.

# 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 **A**, **P**, **SCN**, **Tv**, **Av** or **M** and turn your camera on by pressing the **⏻** button.
  - In **A** (Auto) Mode, press the **MENU** button to access in menu directly.
2. Press the **MENU** button, then use **▶** to select the [Mode2] menu.
3. Use **▼** to select [Capture Mode], then press the **OK** button.
4. Use **▲** or **▼** to select [Burst], then press the **OK** button.
5. To exit from the menu, press the **MENU** 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 **A**, **P**, **SCN**, **Tv**, **Av** or **M** and turn your camera on by pressing the **ON** button.
  - In **A** (Auto) Mode, press the **MENU** button to access in menu directly.
2. Press the **MENU** button, then use **▶** to select the [Mode2] menu.
3. Use **▼** to select [Capture Mode], then press the **OK** button.
4. Use **▲** or **▼** to select [AEB], then press the **OK** button.
5. To exit from the menu, press the **MENU** button.
  - The **A** 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**, **SCN**, **Tv**, **Av** or **M** and turn your camera on by pressing the **⓪** button.
2. Press the **MENU** button, then use **▶** to select the [Mode2] menu.
3. Use **▼** to select [Metering], then press the **⓪** button.
4. Use **▲** or **▼** to select the desired metering mode, then press the **⓪** button.
  - [  Center-Weighted]: 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 **MENU** 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 .
  - To view the next image, press .



- 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 .
  - To view the next image, press .
2. Adjust the zoom ratio by using the  /  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  /  /  /  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  /  /  /  to move the cursor to select the image to be displayed at regular size.
4. Press the  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 the **MENU** button, then toggle  to select the [Playback1] menu.
3. Use  to select [Slide Show] and press the  button.
4. Use  or  to set the playback interval, then press the  button.
  - The slide show starts.
  - The video clips are displayed the first frame image, and not played back.
  - To stop slide show, press the  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: 2848 x 2136 pixel, 2272 x 1704 pixel, 1600 x 1200 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 .
  - To view the next image, press .
3. Press the **MENU** button, then use  to select the [Playback2] menu.
4. Use  or  to select [Resize] and press the  button.
5. Use  or  to select the desired setting, then press the  button to confirm.

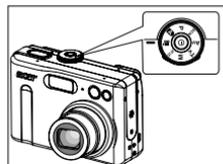


# VIDEO MODE

## Recording Video Clips

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

1. Rotate the mode dial to  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  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.

## 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 .
  - To view the next image, press .
3. Press the  button to start playing back the video clips.
  - To pause or resume video playback, press the  button again.



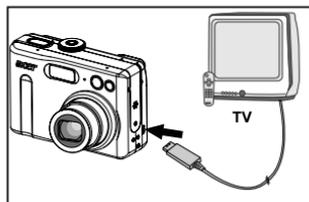
- The playback information displayed on the LCD monitor will disappear after seconds of time.
- The zoom function cannot be activated while playing the video clips back.
- To playback the video clips on the computer, we recommend you to use Windows Media Player 9.0 (WMP 9.0). You can download WMP version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

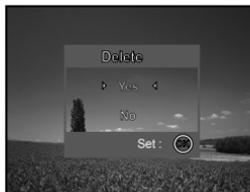


- 
- The sound recorded with video clips can only be played back on TV or computers.

## 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.

1. Rotate the mode dial to **P**, **Av**, **Tv**, **M**, **SCN** or **☒** and turn your camera on by pressing the **⏻** button.
2. Press the **▶** button.
  - The last recorded image appears on the LCD monitor.
3. Use **◀** or **▶** to select the image you want to delete.
4. Press the **🗑** button.
5. Use **▲** or **▼** to select [This Image] or [All Images] by your preference, then press the **OK** button.
6. 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 the **MENU** button, then toggle  to select the [Playback1] menu.
4. Use  to select [Protect] and press the  button.
5. Use  or  to choose the desired setting, then press the  button.
  - [Protect One]: Protect one image/movie.
  - [Protect All]: Protect all images/movies (at once).
6. Use  or  to select [Lock], then press the  button to confirm.
  - Press the **MENU** button 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 <b>MENU</b> button. The [Playback1] menu is displayed. Use  or  to select [DPOF], then press the  button.
3		Use  or  to select by your preference, then press the  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  button. [Quality]: 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  button.

Step	Figure	Procedure
5		<p>Press the <b>MENU</b> button to return to the image playback mode.</p> <p>* The  is marked on the displayed image.</p>
		<p>To unmark the  mark, go back to step 3 to select [Reset All] with <b>▲</b> or <b>▼</b>.</p>



- 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 icon will appear on the monitor indicating images selected for printing.
- You cannot print movies.

# 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.

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

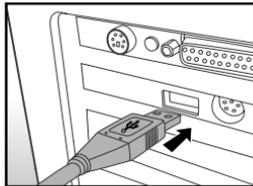
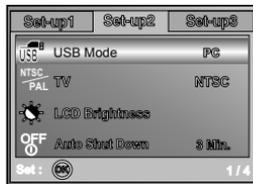
1. Insert the enclosed CD-ROM into your CD-ROM drive.
2. When the welcome screen appears, click **"INSTALL USB DRIVER"**.  
Follow the on-screen instructions to complete the installation.
3. After the USB driver has been installed, restart your computer.

### ■ 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 **SET-UP** and turn your camera on by pressing the **⓪** button.
2. Press **▶** to select the [Set-up2] menu, then use **▼** to select [USB Mode]. Press the **⓪** button.
3. Use **▼** to select [PC], then press the **⓪** button.
4. Connect one end of the USB cable to an available USB port on your computer.
5. 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 **"INSTALL USB DRIVER"**.  
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 **SET-UP** and turn your camera on by pressing the **ⓘ** button.
2. Press **▶** to select the [Set-up2] menu, then use **▼** to select [USB Mode]. Press the **OK** button.
3. Use **▼** to select [PC CAM.], then press the **OK** button.
4. Connect one end of the USB cable to an available USB port on your computer.
5. 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 to 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**, **SCN**, **Tv**, **Av** or **M** and turn your camera on.
  2. Press the **MENU** button, then use **◀** or **▶** to select the [Mode1] / [Mode2] / [Mode3] menu.
    - In **A** (Auto) Mode, press the **MENU** button to access the menu directly.
  3. Press **▲** or **▼** to select the desired setting, then press the **OK** button.
  4. To exit from the menu, press the **MENU** button.
- In **A** (Auto) Mode

Item	Functional Description
Image Size 	Sets the size of the image that will be captured. *  2848 x 2136 *  2272 x 1704 *  1600 x 1200 *  640 x 480
Quality 	Sets the quality (compression rate) at which the image is captured. *  Fine *  Normal *  Economy
Capture Mode 	Sets the recording method at the time of taking pictures. *  Single *  Burst *  AEB

■ In P, SCN, Tv, Av or M Mode

Mode1	Item	Functional Description
	Image Size 	Refer to "Camera Menu - In  (Auto) Mode" in LIST OF MENU OPTIONS.
	Quality 	Refer to "Camera Menu - In  (Auto) Mode" in LIST OF MENU OPTIONS.
	W. Balance  <b>WB</b>	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. <ul style="list-style-type: none"> <li>* Auto</li> <li>*  Daylight</li> <li>*  Cloudy</li> <li>*  Tungsten</li> <li>*  Fluorescent</li> </ul>
	ISO 	Sets the sensitivity for taking pictures. When the sensitivity is raised (and the ISO figure is increased), photography will become possible even in dark locations, but the more pixelated (grainier) the image will appear. <p>*Auto / 50 / 100 / 200</p>

Mode2	Item	Functional Description
	Metering 	Refer to section in this manual titled “Selecting the Metering Mode” for further details.
	Capture Mode 	Refer to “Camera Menu - In  (Auto) Mode” in LIST OF MENU OPTIONS.
	Digital Zoom 	This sets whether or not to use digital zoom at the time of shooting. * On / Off
	Quick View 	Set to display a photographed image on LCD monitor immediately after you have taken the shot. * On / Off

Mode3	Item	Functional Description
	Color 	Sets the color of the image that will be captured. *  Full Color *  Black & White *  Sepia
	Sharpness 	Sets the level of image sharpness. *  Low *  Medium *  High
	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
	Date Imprint 	The date of recording can be printed directly on the still images. This function must be activated before the image is captured. The date appears on the right bottom of the captured picture. When images are shot with date imprint feature, the date cannot be removed later. * On / Off

## Video Menu

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



1. Rotate the mode dial to  and turn your camera on.
2. Press the **MENU** button.
3. Press **▲** or **▼** to select the desired setting, then press the **OK** button.
4. To exit from the menu, press the **MENU** button.

Item	Functional Description
Color 	Refer to “Camera Menu-In <b>P</b> , <b>Av</b> , <b>Tv</b> , <b>M</b> or <b>SCN Mode</b> ” of MENU OPTIONS.
Digital Zoom 	Refer to “Camera Menu-In <b>P</b> , <b>Av</b> , <b>Tv</b> , <b>M</b> or <b>SCN Mode</b> ” 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 the **MENU** button, then use  or  to select [Playback1] or [Playback2] menu.
3. Use  or  to select the desired setting and press the  button.
4. To exit from the playback menu, press the **MENU** button.

### ■ [Playback1] settings

Item	Functional Description
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 the 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 the section in this manual titled "Protecting Images/ Video clips" for further details.
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 taking it to a print shop. Refer to the section in this manual titled "Setting the DPOF" for further details.

■ [Playback2] settings

Item	Functional Description
Resize 	Changes the size of a recorded image. Resizing replaces the original image with the changed image. Only resizing to the smaller size is available. *  2848x2136 *  2272x1704 *  1600x1200 *  640x480
Quality Change 	Change the quality (compression rate) of a recorded image. Compresses images down to half of their size or more, overwrites an old size images with a newly compressed image. Only quality changing to the lower quality level is available. *  Fine *  Normal *  Economy
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 **SET-UP** and turn your camera on.
2. Press the **MENU** button, then use ◀ or ▶ to select the [Set-up1] / [Set-up2] / [Set-up3] 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.

### ■ [Set-up1] settings

Item	Functional Description
 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 the section in this manual titled “Formatting an SD Memory Card or Internal Memory” for further details. * Yes / No
 Beeper	This sets whether or not to mute the startup sound, and the camera sound each time you press a camera button. * Louder / Soft / Off
 Date & Time	This sets the date and the time. Refer to the section in this manual titled “Setting the Date and Time” for further details.
 Language	Sets the language that is displayed on the LCD monitor. Refer to the section in this manual titled “Choosing the Screen Language” for further details. * English / Français / Deutsch / Español / Italiano / 繁體中文 / 简体中文

## ■ [Set-up2] settings

Item	Functional Description
USB Mode 	Selects to choose one of the following modes for further settings. * PC / PictBridge / PC CAM.
TV 	Sets video output of the camera for matching the video output system of the equipment that you are going to connect to the camera. * PAL / NTSC
LCD Brightness 	This sets the brightness of the LCD monitor. The adjustment range is from -5 to +5.
Auto Shut Down 	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

### ■ [Set-up3] settings

Item	Functional Description
Reset Number 	Sets 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
Set To Default 	Returns all basic settings to the digital camera's default settings. The time setting will not be reset. * Yes / No
Version 	This displays the current firmware version of the camera.

# SPECIFICATIONS

<b>Item</b>	<b>Description</b>
Image Sensor	CCD
Effective pixels	6.20 Mega pixels
Image size	Still image: 2848 x 2136, 2272 x 1704, 1600 x 1200 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 1GB)
File format	Motion JPEG (AVI) PC-CAM support (QVGA @ 20fps)
Lens	F-no.: Wide: 2.8 / Tele: 4.8 Focal length: 7.5mm - 22.5mm (Equivalent to 35mm Camera: 36~108 mm)
Focus range	Normal: 50cm - infinity Macro: 5cm - infinity (Wide) 30cm - infinity (Tele)
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, Tungsten, Fluorescent
ISO	Auto, 50, 100, 200
Interface	DC-IN jack, USB connector, A/V terminal
Power	2 AA batteries AC-DC Adapter (3V/3A)
Dimension	Approx. 91 x 61 x 31.5 mm (3.6 x 2.5 x 1.3 inches)
Weight	Approx. 160g (without batteries and the SD memory card)

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