

## **FCC STATEMENT**

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

### **Note:**

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This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Use of shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

## **READ THIS FIRST**

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### **Notice:**

- Product design and specifications are subject to change without notice. This includes primary product specifications, software, software drivers, and user's manual. This User Manual is a general reference guide for the product.
- The product and accessories that come with your digital video camera may be different from those described in this manual. This is due to the fact that different retailers often specify



slightly different product inclusions and accessories to suit their market requirements, customer demographics, and geographical preferences. Products very often vary between retailers especially with accessories such as batteries, chargers, AC adapters, memory cards, cables, carrying cases/pouches, and language support. Occasionally a retailer will specify a unique product color, appearance, and internal memory capacity. Contact your dealer for precise product definition and included accessories.

- The illustrations in this manual are for the purpose of explanation and may differ from the actual design of your digital video camera.
- The manufacturer assumes no liability for any errors or discrepancies in this user manual.
- For driver updates and revisions to this manual, please refer to our website [www.geniusnet.com.tw](http://www.geniusnet.com.tw).

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## WARNING

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- If foreign objects or water have entered the camera, turn the power OFF and remove the batteries.
  - If the camera has fallen or its case has been damaged, turn the power OFF and remove the batteries. Continued use in this state might cause fire or electric shock. Consult the store of purchase.
  - **Do not disassemble, change or repair the camera.** This might cause fire or electric shock. For repair or internal inspection, ask the store of purchase.
  - **Do not use the camera in areas near water.** This might cause fire or electric shock. Take special care during rain, snow, on the beach, or near the shore.
  - **Do not place the camera on inclined or unstable surfaces.** This might cause the camera to fall or tilt over, causing injury.
  - **Keep the batteries out of the reach of children.** Swallowing batteries might cause poisoning. If the battery is accidentally swallowed, immediately consult a physician.
  - **Do not use the camera while you are walking, driving or riding a motorcycle.** This might cause you to fall over or result in traffic accident.
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## CAUTION

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- **Insert the batteries paying careful attention to the polarity (+ or -) of the terminals.** Inserting the batteries with its polarities inverted might cause fire and injury, or damage to the surrounding areas due to the battery rupturing or leaking.
  - **Do not fire the flash close to anyone's eyes.** This might cause damage to the person's
-



eyesight.

- 
- **Do not subject the LCD monitor to impact.** This might damage the glass on the screen or cause the internal fluid to leak. If the internal fluid enters your eyes or comes into contact with your body or clothes, rinse with fresh water. If the internal fluid has entered your eyes, consult a physician to receive treatment.
  - **A camera is a precision instrument. Do not drop it, strike it or use excessive force when handling the camera.** This might cause damage to the camera.
  - **Do not use the camera in humid, steamy, smoky, or dusty places.** This might cause fire or electric shock.
  - **Do not remove the battery immediately after long period of continuous use.** The battery becomes hot during use. Touching a hot battery might cause burns.
  - **Do not wrap the camera or place it in cloth or blankets.** This might cause heat to build up and deform the case, resulting in fire. Use the camera in a well ventilated place.
  - **Do not leave the camera in places where the temperature may rise significantly, such as inside a car.** This might adversely affect the case or the parts inside, resulting in fire.
  - **Before you move the camera, disconnect cords and cables.** Failure to do this might damage cords and cables, resulting in fire and electric shock.
- 

## CAUTION

When you use the battery, carefully read and strictly observe the **Safety Instructions** and the notes described below:

- Different battery types and surrounding temperatures may affect the battery performance.
  - Avoid using batteries in extremely cold environments as low temperatures can shorten the battery life and reduce camera performance. This low temperature will also influence alkaline battery performance, therefore Ni-MH rechargeable battery is highly recommended.
  - If you are using the new rechargeable batteries or rechargeable batteries that have not been used for an extended period of time (batteries that pass the expiry date are exceptions) might affect the number of pictures that can be taken. Therefore, to maximize their performance and lifetime, we recommend that you fully charge the batteries and discharge them for at least one complete cycle before use.
  - The battery may feel warm when using the camera for an extended period of time or using the flash continuously. This is normal and not a malfunction.
  - The camera may feel warm when being used continuously or for an extended period of time. This is normal and not a malfunction.
-



- If you will not be using the batteries for an extended period of time, remove them from the camera to prevent leakage or corrosion.
- 
- Never use batteries of different types (together) or mix old and new batteries.
- 
- Always keep the terminals in a clean state.
- 
- Never use manganese batteries.
-



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## **INTRODUCTION**

### **Overview**

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Your new digital video camera delivers good quality, 2304 x 1728 resolution images using a 2.0 Mega pixel CMOS sensor. This digital video camera is designed as an "entry-level" handy cam. You can simply use this small digital video camera for video recording.

Using the 1.5" LTPS color image LCD monitor, you can record images and then review them in detail. An auto-flash sensor automatically detects the shooting (lighting) conditions and determines whether the flash should be used. This feature helps ensure that your images turn out right.

16MB internal (built-in) memory lets you capture and store images without the need for an additional memory card.

However, you may wish to expand the memory capacity (up to 512MB capacity) by using an external memory card. In addition to still image and video, your digital video camera can act as a voice recorder, MP3 player and PC camera.

Video clips or still images that you have captured can be downloaded to your computer using the USB cable (USB driver required for Win 98). You can enhance and retouch your images on your computer by using the provided editing software. You may share your images with your friends via e-mail, in a report, or on a website.

To play back the video clips on the computer, we recommend you to use Windows Media Player 9.0 (WMP 9.0) or the Software Application we offered. You can download WMP version from the website at [www.microsoft.com](http://www.microsoft.com).



**NOTE**

The illustrations in this manual are for the purpose of explanation and may differ from the actual setting of your camera.

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## Package contents

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Carefully unpack your camera and ensure that you have the following items:

- |                              |                   |
|------------------------------|-------------------|
| ■ Digital camera             | ■ Software CD-ROM |
| ■ USB cable                  | ■ User's manual   |
| ■ AV cable                   | ■ Quick guide     |
| ■ 2 x AAA alkaline batteries | ■ Camera pouch    |
| ■ Camera strap               | ■ Earphones       |
| ■ Tripod                     |                   |

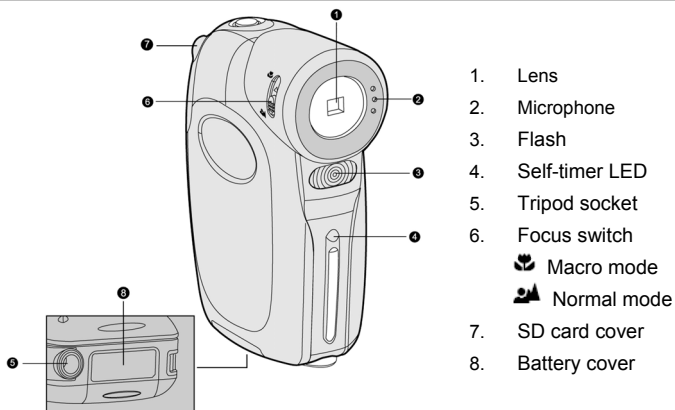
**NOTE**

- 
- Accessories and components vary by retailer.



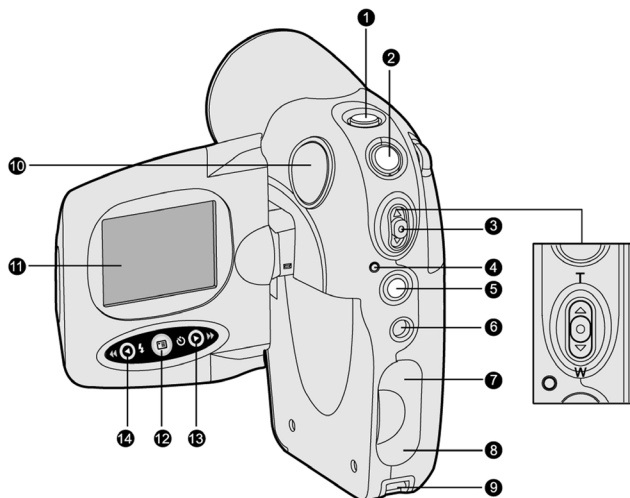
## GETTING TO KNOW YOUR CAMERA

### Front View





## Rear View



- |                           |                                  |
|---------------------------|----------------------------------|
| 1.  Power button          | 6.  Earphone connector           |
| 2.  Image button          | 7. A/V terminal                  |
| 3. Zoom lever             | 8. USB connector                 |
| Record button             | 9. Strap holder                  |
| <b>T / ▲ T</b> / Zoom in  | 10. Speaker                      |
| <b>W / ▼ W</b> / Zoom out | 11. LCD panel / monitor          |
| 4. State LED indicator    | 12.  Menu button                 |
| 5. <b>MODE</b> button     | 13.  Right / Fast forward button |
|                           | Self-timer button                |









14.  Left / Rewind button





-  Flash button

## LCD monitor information

Preview mode:




- Zoom state
- Macro mode
- Volume

-  Low sound level
-  Mild sound level
-  Medium sound level
-  High sound level
-  Fully sound level
-  OFF Mute



- Remaining battery status
-  Full battery power
-  Fairly consumed
-  Nearly exhausted
-  Virtually no battery power

- Memory card indicator

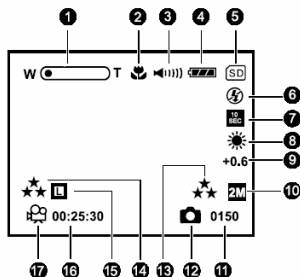
- Flash mode










-  Auto flash
-  Auto flash with red-eye reduction
-  Flash off

- Self-timer mode

-  3 sec. delay
-  10 sec. delay

- White balance



- Auto
-  Daylight
-  Shade
-  Fluorescent-1
-  Fluorescent-2
-  Lamp
- EV compensation
  - Image size
-  2304 x 1728 pixels
-  2048 x 1536 pixels
-  1600 x 1200 pixels
-  800 x 600 pixels
- Possible number of shots
  - Still image mode
  - Image quality



- ★★ Super fine
  - ★ Fine
  - ★ Normal
14. Video quality
- ★★ Ultra fine
  - ★★ Super fine
  - ★ Fine

- ★ Normal

15. Video size

**L** 640 x 480

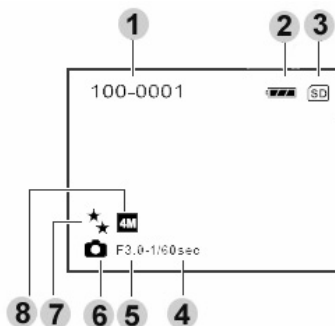
**M** 320 x 240

16. Possible recording time

17. Video mode

Playback mode-Still image  
playback:

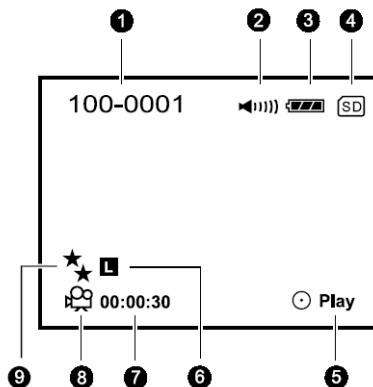
1. Folder & file number
2. Remaining battery status
3. Memory card indicator
4. Exposure time
5. Aperture value
6. Still image mode
7. Image quality
8. Image size





Playback mode-Video clip  
playback:

1. Folder and file number
2. Volume
3. Remaining battery status
4. Memory card indicator
5. Play / Pause indicator
6. Video size
7. Total of recorded time
8. Video mode
9. Video quality



## LED indicators

Indicator	State	Description/Activity
LED indicator	Solid green	1. The digital video camera is powering up. 2. The digital video camera is ready to record images (or movies).
LED indicator	Blinking green	USB communication/transfer in progress.
LED indicator	Blinking red	Charging the flash.
Self-timer indicator	Blinking red	The self-timer function is activated.

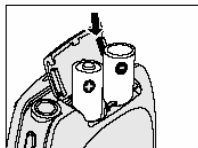


## GETTING STARTED

You can use 2 AAA size batteries (Alkaline, Ni-MH) to power the camera.

### Installing Batteries

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



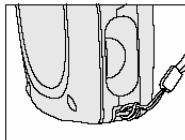
#### NOTE

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

### Attaching the Hand Strap

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

- Attach the camera strap as follows:
1. Thread the small loop of the hand strap through the hand strap eyelet on the camera.
  2. Pull the large loop through the small loop until the strap is firmly secured

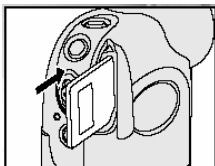




## Inserting an SD memory card (optional accessory)

The digital video camera comes with 16MB of internal memory, allowing you to record video clips, captured still images, MP3 and voice files in the digital video camera. However, 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 the camera is turned off.
2. Slide the battery card cover in the direction of the [OPEN] arrow.
3. Insert the SD memory card.
  - If the card cannot be inserted, check the orientation.
4. Close the battery card cover.



### **NOTE**

- Be sure to format the memory card with this camera before its initial usage. Refer to section in this manual titled "Formatting Media" for further details.

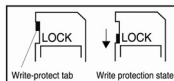
## To remove a memory card:

1. Make sure power is off.
2. Open the SD card cover.
3. Press lightly on the edge of the memory card and it will eject.



### **NOTE**

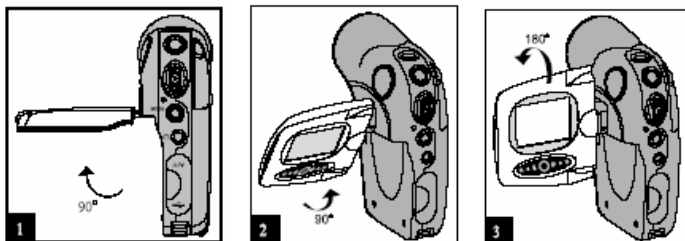
- To prevent valuable data from being accidentally erased from an SD memory card you can slide the write-protected tab (on the side of the SD memory card) to "LOCK".
- To save, edit, or erase data on an SD memory card, you must unlock the card.



## Using the LCD panel

1. Open the panel by pulling it away from the digital video camera.
2. Choose the angle of the monitor that suits you best by rotating the panel.



**NOTE**

- Make sure you open the LCD panel at 90 degrees before attempting to rotate it.
- Rotate the LCD panel carefully and in the correct direction, over rotation and rotation in the wrong direction may damage the hinge that connects the LCD monitor to the digital video camera.
- Avoid contact with the LCD monitor when moving the LCD panel.
- Do not hold the digital video camera by the LCD panel.

## Turning the Power On/Off

Press and hold the **⏻** button until the digital video camera turns on.

- To turn the power off, press and hold the **⏻** button again.

## Choosing the OSD (On-Screen Display) language

Specify in which language menus and messages are to be displayed on the LCD monitor for the first time. Select the displayed language with the zoom lever and press the **⏻** button. The setting will be stored. Refer to section in this manual titled "Language" in the [Setup] menu for further details.

**NOTE**

- The OSD language setting screen appears and prompts you to choose a language for



displayed information on the LCD monitor only when you first turn the digital video camera on.






It will not appear again until the next time as you power on it.

## Setting the Date and Time

The date/time setting screen will automatically appear:







- When first turning the camera on;
- When turning the power on after leaving the camera without the batteries for an extended period of time.

### To adjust the date and time:

1. Select the year, month, day and time fields with the  /  buttons.
2. Press the  button after all fields are set.
  - To increase a value, slide the zoom lever to the **T** /  side.
  - To decrease a value, slide the zoom lever to the **W** /  side.
  - The time is displayed in 24-hours format.

## Formatting an SD memory card

Format an SD memory card before its initial usage.

1. Turn on the power by pressing and holding the  button.
  - If you want to access [Setup] menu from the [Image/Movie] / [MP3] / [Voice] mode, first press the **MODE** button twice to go to [Select Mode] to select one of the mode with the zoom lever, and press the  button.
2. Press the  button, and select [Setup] with the  button.
  - [Setup] menu is displayed on the screen.
3. Select [Format] with the zoom lever, and press the  button.
4. Select [Yes] with the zoom lever, and press the  button.



Record	Setup	Play	Setup	MP3	Setup	Voice	Setup
<b>Format</b>		<b>Format</b>		<b>Format</b>		<b>Format</b>	
Sound effect	0	Sound effect	0	Sound effect	0	Sound effect	0
System tones	On	System tones	On	System tones	On	System tones	On
Speaker	0	Speaker	0	Speaker	0	Speaker	0
LCD brightness	0	LCD brightness	0	LCD brightness	0	LCD brightness	0
Exit: MENU Change	○	Exit: MENU Change	○	Exit: MENU Change	○	Exit: MENU Change	○



## NOTE

- Formatting an SD memory card also erases the protected images. All data other than images are also erased. Before formatting the card, make sure that all the images are unnecessary.
- 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.


## Setting Image Resolution and Quality

Resolution and quality settings determine the pixel size (dimension), image file size, and compression ratio for your images. These settings affect the number of images that can be stored in memory, or on a memory card. As you get to know the digital video camera, it is recommended that you try each quality and resolution setting to get an appreciation for the effects that these settings will have on your images.

Higher resolution and higher quality images offer the best photographic results but produce large files sizes. Therefore, few images will take up a lot of memory space.




High resolution and quality settings are recommended for printed output and situations requiring the finest detail. Lower resolution/quality images take up less memory space and may be quite suitable for sharing images via email, in a report, or on a web page.

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

1. Turn on the power by pressing and holding the  button.

Record	Setup
<b>Image size</b>	2M
Image quality	★★
Video size	L
Video quality	★★
Exposure	0 EV
Exit: MENU	Change: ○





2. Press the  button.
  - [Record] menu is displayed.
3. Select [Image size] with the zoom lever, and press the  button.
4. Select the desired setting with the zoom lever, and press the  button.
5. Follow the same steps 3 and 4 to set the [Image quality], [Video size] and [Video quality].

**NOTE**

- 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.

## PHOTOGRAPHY MODES

### Capturing still images

1. Turn on the power by pressing and holding the  button.
2. Compose the shot.
3. Press the  button to capture a still image.

**NOTE**

- The actual captured image appears to be larger than the one on LCD preview after image captured.

#### Number of recordable images






The frame counter indicates the approximate number of images that can be stored on the internal memory or the SD memory card. The number of recordable images may vary depending on the recorded subject, the capacity of the memory card, there are files other those images or when the recording is made while switching the picture quality or resolution.



Resolution	Quality	Compression ratio	16 MB internal memory
2304 x 1728 pixels	Super fine	4:1	12
	Fine	8:1	20
	Normal	12:1	29
2048 x 1536 pixels	Super fine	4:1	15
	Fine	8:1	24
	Normal	12:1	34
1600 x 1200 pixels	Super fine	4:1	21
	Fine	8:1	29
	Normal	12:1	45
800 x 600 pixels	Super fine	4:1	72
	Fine	8:1	100
	Normal	12:1	137

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




## Recording video clips



1. Turn on the power by pressing and holding the  button.
2. Compose the shot.
3. Press the  button.
  - The recording of the video clip will start.
  - Pressing the  button again will pause the recording. Pressing the  button during pause will resume recording.
4. Press the  button to stop recording.

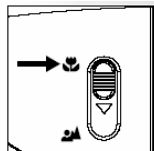
## Macro mode

Select this when you want to take a close-up photography.



1. Turn on the power by pressing and holding the  button.
2. Slide the focus switch to the  side.
3. Compose the shot.
4. Press the  button to capture a still image.

- To record video clips, press the  button to start recording, and then press the  button to end the recording.






## **NOTE**



- After a macro shot is taken **DO NOT FORGET** to reset the lens to the normal position.
- Flash mode is automatically set to off once you switch to Macro mode.

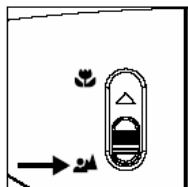
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## **Normal mode**

This mode is suitable for scenery and portrait shooting.

1. Turn on the power by pressing and holding the  button.
2. Slide the focus switch to the  side.
3. Compose the shot.
4. Press the  button to capture a still image.

- To record video clips, press the  button to start recording, and then press the  button to end the recording.





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## **Zoom photography**

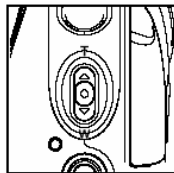
Zoom photography allows you to capture telephoto and wide-angle shots.






1. Turn on the power by pressing and holding the  button.
2. Compose the shot with the zoom lever.

- The subject appears closer by sliding the zoom lever to the  / **T** side.



- The subject appears farther away by sliding the zoom lever to the  / **W** side.



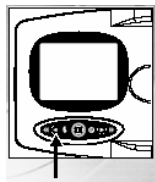
3. Press the  button to capture a “zoomed” image.
  - To record video clips, press the  button to start recording, and then press the  button to end the recording.
  - You can also use the zoom lever to zoom in or zoom out the subject while recording the video clips.


## Setting the flash

Set the flash to suite for the photographic conditions.



1. Turn on the power by pressing and holding the  button.
2. Press the  button to select the desired flash mode.

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



Flash Mode	Description
 Auto flash	The flash fires automatically to suit the photographic conditions.



 Auto flash with red-eye reduction	<p>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.</p> <p>When taking photographs, the red-eye phenomenon can be reduced by asking the subject (person) to look at the digital video camera or get as close to the digital video camera as possible.</p>
 Flash off	<p>Use this mode when taking pictures using indoor lighting, for stages and indoor competitions, and when the subject is too far away for the flash to be effective.</p>








## NOTE

- The flash cannot be set in the video mode.





## Setting the self-timer

This setting allows still images to be captured with the self-timer.

1. Turn on the power by pressing and holding the  button.
2. Press the  button to select the setting.
3. Compose the shot.
4. Press the  button.
  - The self-timer LED and self-timer icon flash, and then the image is captured after the preset time has elapsed.
  - To cancel the self-timer during operation, press again the  button.
  - Once the self-timer has been activated and the  button has been pressed, you can not slide the zoom lever.

The table below will help you choose the appropriate self-timer mode:



Self-timer mode	Description
 3 sec.	The picture is taken about 3 seconds after the  button is pressed.
 10 sec.	The picture is taken about 10 seconds after the  button is pressed.





## NOTE

- Self-timer cannot be set in the video mode.
- The self-timer setting is automatically cancelled after an image is captured.

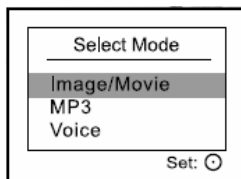
## PLAYBACK MODE



### Playing back still images

You can playback the still images on an LCD monitor.

1. Turn on the power by pressing and holding the  button.
2. Press the **MODE** button twice to go to [Select Mode].
3. Select [Image/Movie] with the zoom lever and press the  button.

- The last image/video clip appears on the LCD monitor.











4. Select the desired images with the zoom lever.
  - To view the previous image, slide the zoom lever to the  / **T** side.
  - To view the next image, slide the zoom lever to the  / **W** side.



## Playing back video clips

You can playback video clips recorded on the digital video camera. You can also playback voice.

1. Turn on the power by pressing and holding the  button.
2. Press the **MODE** button twice to go to [Select Mode].
3. Select [Image/Movie] with the zoom lever and press the  button.
  - The last image/video clip appears on the LCD monitor.
4. Select the desired images with the zoom lever.
  - To view the previous image, slide the zoom lever to the **▲ / T** side.
  - To view the next image, slide the zoom lever to the **▼ / W** side.
5. Press the  button.
  - A press of the  /  buttons during playback allows fast forward play / fast reverse play.
  - To pause video playback, press the  button.
  - To cancel pause, press the  button again.
  - To stop video playback, press the  button. This stops playback and returns to the start of the video clip.



### NOTE

- To playback the video clips on the computer, we recommend you to use Windows Media Player 9.0 (WMP 9.0) or the software applications we offer. You can download WMP version from the website at [www.microsoft.com](http://www.microsoft.com).
- To adjust the sound level, sliding the zoom lever to the **T / ▲** side will increase the volume, sliding the zoom lever to the **W / ▼** side will decrease the volume.



## Playing back still images/video clips on TV

You can also playback your images on a TV screen. Before connecting to any devices, 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 video camera, then turn all connected devices off.

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

## Zoom playback

Images that are being playback can be enlarged and displayed in 2 levels of 2 times and 4 times enlargement.

1. Turn on the power by pressing and holding the

ⓘ button.

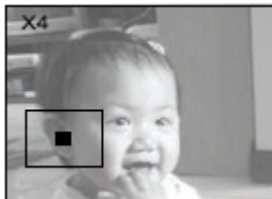
2. Press the **MODE** button twice to go to [Select Mode].

3. Select [Image/Movie] with the zoom lever and press the ⏪ button.


4. Select the desired images with the zoom lever.

- To view the previous image, slide the zoom lever to the ▲ / T side.
- To view the next image, slide the zoom lever to the ▼ / W side.

5. Each press of the 📷 button switches the displayed image in the sequence of 1x enlargement, 2x enlargements, 4x enlargements and thumbnail display.







- During zoom playback, the outer frame indicates the entire image; while the inner frame indicates the location of the currently enlarged area.
6. Slide the zoom lever upward or downward or press the  buttons to select the area to enlarge.




## Thumbnail display

This function allows you to view 9 thumbnail images on the LCD monitor at the same time, so you can quickly search for the image that you want.

1. Follow "Zoom Playback" section steps 1-5 until the thumbnail display on the screen.
2. Press the  buttons to select the image/video clip to be displayed at regular size.
3. Press the  button.





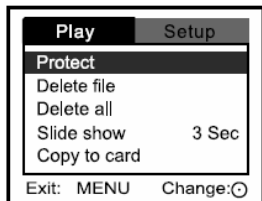
### NOTE

- A [, [, [] icon will be displayed in a thumbnail display.








## Protecting still images/video clips

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

1. Turn on the power by pressing and holding the  button.
2. Press the **MODE** button twice to go to [Select Mode].
3. Select [Image/Movie] with the zoom lever and press the  button.






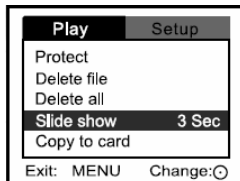


4. Select the still image/video clip that you want to protect with the zoom lever.
  - You may select the still image/ video clip that you want to protect from the thumbnail display.
5. Press the  button.
  - [Play] menu is displayed.
6. Select [Protect] with the zoom lever, and press the  button.
7. Select [One image] or [All images] with the zoom lever, and press the  button.
8. Select [Lock] with the zoom lever, and press the  button.
  - Protect is executed and the digital video camera returns to the play mode.
  - The protect icon  is displayed with protected images. When [All images] are selected,  is displayed with all the images.
  - To cancel protection, select [Unlock] with the zoom lever, and press the  button.
  - The removal of image protection is executed and the digital video camera returns to the play mode.




## Slide show display

The slideshow function enables you to playback still images/video clips automatically in order one image at a time.

1. Turn on the power by pressing and holding the .
2. Press the **MODE** button twice to go to [Select Mode].
3. Select [Image/Movie] with the zoom lever and press the  button.
4. Press the  button.
  - [Play] menu is displayed.







5. Select [Slide show] with the zoom lever, and press the  button.
6. Set the playback interval with the zoom lever, and 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.



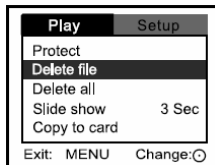
## NOTE



- You can adjust slide show display interval within the range of 1 sec., 3 sec., 5 sec., 7 sec. and 9 sec.

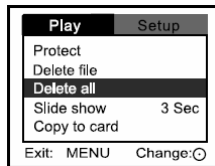
## Deleting still images/video clips


1. Turn on the power by pressing and holding the  button.
2. Press the **MODE** button twice to go to [Select Mode].
3. Select [Image/Movie] with the zoom lever and press the  button.

4. Select the still image/video clip that you want to erase with the zoom lever.
  - You may select the still image/ video clip that you want to erase from the thumbnail display.





5. Press the  button.
  - [Play] menu is displayed.
6. Select [Delete file] or [Delete all] with the zoom lever, and press the  button.





- Delete file: Delete the current still image/video clip.
  - Delete all: Delete all still images/video clips.
7. Select [Yes] with the zoom lever, and press the  button.

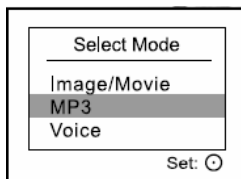


- To not delete, select [No], and press the  button.
- If all video clips/images are deleted, [ No images!] pops up.
- If you want to turn back to the photography mode, press the **MODE** button.





## MP3 MODE

The digital video camera offers you to playback MP3 files. You may download MP3 files to your computer and then copy them into the digital video camera via the USB cable or insert an SD memory card with MP3 files recorded into the digital video camera. Refer to section in this manual titled “**TRANSFERRING MP3 FILES**” for further details.





1. Turn on the power by pressing and holding the  button.
2. Press the **MODE** button twice to go to [Select Mode].
3. Select [MP3] with the zoom lever and press the  button.
  - MP3 play list appears on the screen.



### Button operations

State Button	MP3	
	Play list	During playback
	Power off (press & hold)	Power off (press & hold)
<b>T</b> / 	Scroll up	Volume +
<b>W</b> / 	Scroll down	Volume -
	Previous page	Playing previous MP3 music / Fast reverse playback







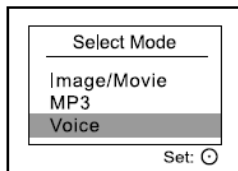
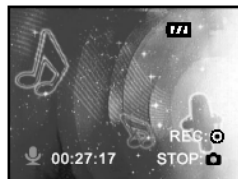
	Next page	Playing next MP3 music / Fast forward playback
<b>MODE</b>	Back to LCD preview	Repeat 1/ Repeat all / Off
	Enter MP3 menu	Playing previous or next MP3 music / Fast reverse or forward playback
	Select/Un-select	Stop playing MP3 music
	Start to play MP3 music	Pause playing MP3 music

## VOICE RECORDER MODE

The digital video camera enables you to record and playback voice files anytime and anywhere.



### Recording voice files

1. Turn on the power by pressing and holding the .
2. Press the **MODE** button to select voice record mode as the illustration.
3. Press the  button.
  - Voice starts recording.
  - To pause recording, press the  button again.
  - To stop recording, press the .
  - Based on 16MB internal (built-in) memory, the maximum recordable time for voice recording is 31 minutes and 20 seconds.














## Playing back voice files

1. Turn on the power by pressing and holding the  button.
2. Press the **MODE** button twice to go to [Select Mode].
3. Select [Voice] with the zoom lever and press the  button.
  - Voice play list appears on the screen.







### Button operations

Button State	Voice	
	Play list	During playback
	Power off (press & hold)	Power off (press & hold)
<b>T</b> / 	Scroll up	Volume +
<b>W</b> / 	Scroll down	Volume -
	Previous page	Playing previous voice file / Fast reverse playback
	Next page	Playing next voice file / Fast forward playback
<b>MODE</b>	Back to LCD preview	Repeat 1 / Repeat all / Off
	Enter Voice menu	Playing previous or next MP3 music / Fast reverse or forward playback
	Select/Un-select	Stop playing voice file
	Start to play voice file	Pause playing voice file

## Deleting MP3 / Voice files

1. Turn on the power by pressing and holding the  button.
2. Press the **MODE** button twice to go to [Select Mode].







3. Select [MP3] / [Voice] with the zoom lever and press the  button.
  - MP3 / Voice play list appears on the screen.
4. Press the  button.
  - [MP3] / [Voice] menu appears on the screen.
5. Select [Delete file] or [Delete all] with the zoom lever and press the  button.
  - Delete file: Delete the current MP3 / Voice file.
  - Delete all: Delete all MP3 / Voice files.
6. Select [Yes] with the zoom lever, and press the  button.
  - To not delete, select [No], and press the  button.
  - If all files are deleted,  No files!] pops up.
  - If you want to turn back to the photography mode, press the **MODE** button.

## MENU OPTIONS

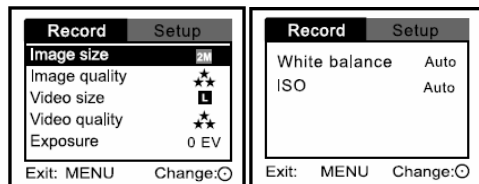
### Record menu

This menu is for the basic settings to be used when capturing still images/video clips in the photography mode.

1. Turn on the power by pressing and holding the  button.
2. Press the  button.
  - [Record] menu is displayed on the screen.
3. Select the desired [Record] option item with the zoom lever, and press the  button.
4. Select the desired setting with the zoom lever, and press the  button.



5. To exit from the menu, press the  button.



### ***Image size***

This sets the size of the still image that will be captured.

**4M** : 2304 x 1728

**3M** : 2048 x 1536

**2M** : 1600 x 1200

**1/4M** : 800 x 600

### ***Image quality***

This sets the quality (compression rate) at which the still image is captured.

★★ Super fine

★ Fine

★ Normal

### ***Video size***

This sets the size of the video clip that will be captured.

**L** : 640 x 480

**M** : 320 x 240



### ***Video quality***

This sets the quality (compression rate) at which the video clip is captured

- ★★ Ultra fine
- ★★ Super fine
- ★ Fine
- ★ Normal

### ***Exposure***

Your digital video camera adjusts the exposure of each scene automatically. However, if the subject is very dark, or very bright, you may override the digital video camera's automatic exposure determination to make the subject brighter or darker. This is called EV compensation. The EV compensation can be adjusted from -1.8EV to +1.8EV.

#### **Examples of Exposure Compensation -**

- + (positive) compensation
  - \* Printed matter comprising black text on whitish paper
  - \* Backlighting
  - \* Bright scenes or strong reflected light such as ski slopes
  - \* When the sky accounts for a large area on the screen
- - (negative) compensation
  - \* People illuminated by a spotlight, in particular, against dark background
  - \* Printed matter comprising white text on blackish paper
  - \* Weak reflecting bodies such as evergreen trees or darkish leaves


### ***White balance***


This 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: Automatic adjustment



[] Daylight: For recording outdoors on a bright day

[] Shade: For recording outdoors on a cloudy day

[] Fluorescent-1: Cool white fluorescent (W3900-4500K)

[] Fluorescent-2: Day white fluorescent (W4600-5400K)

[] Lamp: For recording under lamp light

## ISO

This sets the sensitivity for photography. When the sensitivity is raised (and the ISO figure is increased), photography will become possible even in dark locations, but the more pixelated (grainer) the image will appear.

**[Auto]:** Auto adjustment

**[100]:** Equivalent to ISO100

**[200]:** Equivalent to ISO200

**[400]:** Equivalent to ISO400

## Playback menu

This menu sets which settings are to be used for playback.


1. Turn on the power by pressing and holding the

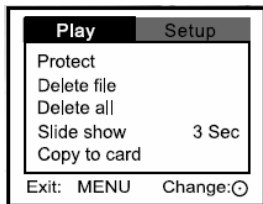
 button.

2. Press the **MODE** button twice to go to [Select





Mode].

3. Select [Image/Movie] with the zoom lever and

press the  button.





4. Press the  button.  
■ [Play] menu is displayed on the screen.
5. Select the desired [Play] option item with the zoom lever, and press the  button.
6. Select the desired setting with the zoom lever, and press the  button.
7. To exit from the menu, press the  button.

### ***Protect***

#### ***Protect***

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

Refer to section in this manual titled "Protecting still images/video clips" for further details.

#### ***Delete file***

Delete the current file

**[No]:** Disable deletion

**[Yes]:** Enable deletion

#### ***Delete all***

Delete all files.

**[No]:** Disable deletion

**[Yes]:** Enable deletion

#### ***Slide show***

Automatically displays one image at a time in sequence with a selected interval time.

Refer to section in this manual titled "Slide show display" for further details.

**[1 Sec], [3 Sec], [5 Sec], [7 Sec], [9 Sec]**



### Copy to card







This feature allows you to copy your files from the digital video 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.

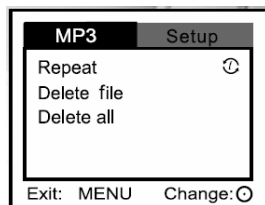
**[No]:** Disable copy files from digital video camera's internal memory to a memory card.

**[Yes]:** Copy files from digital video camera's internal memory to a memory card.

## MP3 menu

This sets whether or not to play MP3 files repeatedly or delete MP3 files.

1. Turn on the power by pressing and holding the  button.
2. Press the **MODE** button twice to go to [Select Mode].
3. Select [MP3] with the zoom lever, and press the  button.  
■ MP3 play list is displayed.
4. Press the  button.  
■ [MP3] menu is displayed on the screen.
5. Select the desired [MP3] option item with the zoom lever, and press the  button.
6. Select the desired setting with the zoom lever, and press the  button.
7. To exit from the menu, press the  button.




### Repeat

This sets to playback the files repeatedly.



 All: Repeat all files or all selected files.

 Single: Repeated one file or the selected file.

Off: Does not repeat.

### Delete file

Delete the current file.

**[No]**: Disable deletion

**[Yes]**: Enable deletion

### Delete all




Delete all files.

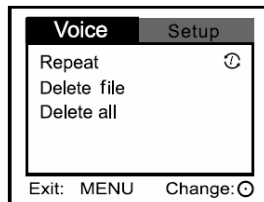
**[No]**: Disable deletion

**[Yes]**: Enable deletion




## Voice menu

This sets whether or not to play voice files repeatedly or delete voice files.

1. Turn on the power by pressing and holding the  button.
2. Press the **MODE** button twice to go to [Select Mode].
3. Select [Voice] with the zoom lever, and press the  button.
  - Voice play list is displayed.
4. Press the  button.
  - [Voice] menu is displayed on the screen.






5. Select the desired [Voice] option item with the zoom lever, and press the  button.
6. Select the desired setting with the zoom lever, and press the  button.
7. To exit from the menu, press the  button.

### ***Repeat***

This sets to playback the files repeatedly.

 All: Repeat all files or all selected files.

 Single: Repeated one file or the selected file.

Off: Does not repeat.

### ***Delete file***

Delete the current file.

**[No]:** Disable deletion

**[Yes]:** Enable deletion

### ***Delete all***


Delete all files.

**[No]:** Disable deletion






**[Yes]:** Enable deletion

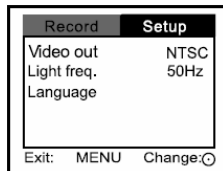
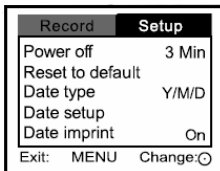
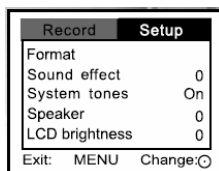
## **Setup menu**

Sets your digital video camera's operating environment.

1. Turn on the power by pressing and holding the  button.
  - This menu can be accessed from all modes.



- Press the  button, and select [Setup] with the  button.
  - [Setup] menu is displayed on the screen.
- Select the desired [Setup] option item with the zoom lever, and press the  button.
- Select the desired setting with the zoom lever, and press the  button.
- To exit from the menu, press the  button.



### Format

This function will delete all still images/video clips and other data recorded on the internal memory or external memory card. Memory card cannot be formatted if it is write-protected.

**[No]:** Does not format the internal memory (or memory card).

**[Yes]:** Formats the internal memory (or memory card) and erase all still images/video clips and other data.

### Sound effect

Selects power on sound effect.

**[0]:** No sound effect.

**[#]:** Select the number of sound effects.

### System tones

This sets the operating sound.

**[On]:** Enable the system tone.

**[Off]:** Disable the system tone.




### NOTE

- If the system tones is set to [On], the operating sound of some buttons will be enabled based



on the following situations:

1. One press of the **MODE** button
2. One press of the  button
3. The countdown of Self-timer

### ***Speaker***

This sets the playback volume. The volume becomes louder by sliding the zoom lever to the **T / ▲** side and softer to the **W / ▼** side. The adjustment range is from 0 to 5.

### ***LCD brightness***

This adjusts the brightness of the LCD monitor. The LCD becomes brighter by sliding the zoom lever to the **T / ▲** side and darker to the **W / ▼** side. The adjustment range is from -5 to +5.

### ***Power off***

If no operation is performed for a specific period of time, the power to the digital video camera is automatically turned off. This feature is useful to reduce battery wear.

- [3 Min]:** When the digital video camera has not been operated, it turns the power off after 3 minutes.
- [5 Min]:** When the digital video camera has not been operated, it turns the power off after 5 minutes.
- [10 Min]:** When the digital video camera has not been operated, it turns the power off after 10 minutes.
- [30 Min]:** When the digital video camera has not been operated, it turns the power off after 30 minutes.
- [Cancel]:** The system turns into idle mode and LCD monitor turns off. You can press any button to resume operation.



### ***Reset to default***

This returns all basic settings to the digital video camera's default settings.

**[No]:** Does not return to the default settings.

**[Yes]:** Returns to the default settings.

### ***Date type***

This sets the displayed type of date and time on the screen.

**[Y/M/D]:** Year/Month/Day

**[D/M/Y]:** Day/Month/Year

**[M/D/Y]:** Month/Day/Year

### ***Date setup***

This sets the date and the time.

Refer to section in this manual titled "Setting the date and time" for further details.

### ***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]:** Imprints the date on the still images when capturing images.

**[Off]:** Does not imprint the date on the still images when capturing images.

### ***Video out***

This sets video output system of the video equipment that you are going to connect to the digital video camera.

**[NTSC]:** NTSC system

**[PAL]:** PAL system



### ***Light freq.***

This digital video camera supports different lighting frequencies: 50Hz and 60Hz. Select the correct frequency setting depending on your local area's voltage.

### ***Language***

This sets the language that is displayed on the LCD monitor.

The provided languages are [English], [Français], [Deutsch], [Español], [Portuguès], [Italiano], [日本語], [繁體中文], [简体中文].

## **TRANSFERRING RECORDED FILES TO YOUR COMPUTER**

To transfer the recorded files from the digital video camera to your computer, follow these steps:

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

Step 2: Connecting the digital video camera to your computer.

Step 3: Downloading image, voice and video files.

### **System Requirements (Windows)**

- Pentium 200 MHz or higher
- Windows 98/98SE/Me/2000/XP
- 64MB RAM
- 128MB hard disk space
- CD-ROM drive
- Available USB port

### **Step 1: Installing the USB driver**

---

#### **Windows 98 computers**

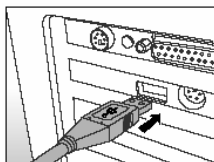
The USB driver on the CD-ROM is exclusively for Windows 98 computers. Installing the USB driver on computers running Windows 2000/ME/XP is not necessary.




1. Insert the CD-ROM that came with the camera into your CD-ROM drive. The welcome screen appears.
2. Click **"Install USB/PC-Cam Driver"**. Follow the on-screen instructions to complete the installation. After the USB driver has been installed, restart your computer.

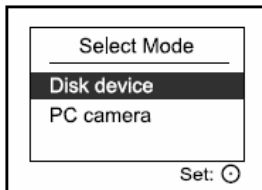
## Step 2: Connecting the camera to your computer

1. Connect one end of the USB cable to the USB connector on the digital video camera.
2. Connect the other end of the USB cable to an available USB port on your computer.
3. Turn on the power.
  - [Select Mode] menu appears on the screen.
4. Select [Disk device] with the zoom lever, and press



the  button.

5. From the Windows desktop, double click on "My Computer".
6. Look for a new "Removable disk" icon. This "Removable disk" is actually the memory or memory card in your digital video camera.
7. Double click on the removable disk and locate the DCIM, MP3 and VOICE folders.



- If a memory card is not inserted in the digital video camera, double click on the removable disk and locate the CAMERA, MP3 and VOICE folders.



### NOTE

- When connecting to the computer, there is no need to install any batteries into the digital video camera.
- Whenever the USB power supply is used while transferring images to your computer, the other buttons on your digital video camera will not perform the functions.



### Step 3: Downloading Images/Video clips

When the camera is turned on and connected to your computer, it is considered as a disk drive, just like a floppy disk or CD. You can download (transfer) images/video clips by copying them from the "removable disk" ("untitled" disk on a Macintosh) to your computer hard drive or to another kind of disk.

#### Windows-

Open the "removable disk" and subsequent folders by double clicking on them. Your images are inside these folder(s). Select the images that you want, 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 camera to a desired location.




#### NOTE

- The recorded voice files are stored on the "VOICE" folder.
- 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.

## TRANSFERRING MP3 FILES

You may download MP3 files to your computer and then copy them into the digital video camera via the USB cable or insert an SD memory card with MP3 files recorded into the digital video camera.

To transfer the MP3 files from your computer to the digital video camera, follow these steps:

1. Install the USB driver (Windows 98 users only).
2. Connect one end of the USB cable to the USB connector on the digital video camera.
3. Connect the other end of the USB cable to an available USB port on your computer.
4. Turn on the power.
  - [Select Mode] menu appears on the screen.
5. Select [Disk device] with the zoom lever, and press the  button.



6. From the Windows desktop, double click on "My Computer".
7. Look for a new "Removable disk" icon. This "Removable disk" is actually the memory or memory card in your digital video camera.
8. Double click on the removable disk and locate the DCIM, MP3 and VOICE folders.
  - If a memory card is not inserted in the digital video camera, double click on the removable disk and locate the CAMERA, MP3 and VOICE folders.
9. Copy MP3 files from your computer hard drive to the "MP3" folder and playback music via the digital video camera.

## INSTALLING PHOTOSUITE

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

To install PhotoSuite

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



### NOTE

- For information on how to use PhotoSuite to edit and retouch your recorded images, please refer to its online help.
- For Windows 2000/XP users, make sure to install and use the PhotoSuite while logged in as a user with an Administrator account.
- PhotoSuite is not supported on the Mac. iPhoto or iPhoto2 is recommended.

## INSTALLING PHOTOVISTA

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

To install PhotoVista:

1. Insert the CD-ROM packaged with the camera into the CD-ROM drive. The welcome screen



appears.

2. Click "Install PhotoVista". Follow the on-screen instructions to complete the installation.



## **NOTE**

- For information on how to use PhotoVista to create spectacular 360° panoramic images, please refer to its online help.
- For Windows 2000/XP users, make sure to install and use PhotoVista while logged in as a user with an Administrator account.
- PhotoVista is not supported on the Mac.
- Windows XP users who have not installed XP Service Pack 1, be sure to link to **<http://java.sun.com/getjava/download.html>** first and download the Java Virtual Machine installation. For more information about Java, please refer to its on-line help at <http://java.sun.com/getjava/help.html> After this Java installation, you can install iSee Media PhotoVista.
- PhotoVista System Requirements are:
  - \* Windows 98, Windows NT 4 (Service Pack 3 or higher)
  - \* Windows 2000, Windows Me, Windows XP Service Pack 1 or higher

## **Install WinDVD Creator SVCD**

WinDVD Creator is an easy-use software to help you to edit recorded video clips and make your own DVDs. WinDVD Creator lets you easily transfer your recorded videos from a camcorder, add picture, music, titles, transitions between scenes, special effects or edit the length you prefer. This program also includes Automatic Scene Detection that automatically breaks up the video you transfer into both short clips and scenes.

### **To Install WinDVD Creator SVCD**

1. Insert the CD-ROM packaged with the camera into the CD-ROM drive.
2. Click "Install WinDVD Creator SVCD" Follow the on-screen instructions to complete the installation.



**WinDVD Creator System requirements:**

Computer Part	Minimum	Recommended
Processor	Intel Celeron 800Mhz	Intel Pentium III 600Mhz *For Direct DVD Support, requires P4 1.6GHz higher for real-time requirement
RAM	128 MB	256MB
Operating System	Windows 98SE / 98 / Me / 2000 / XP	Windows 2000 / XP
Sound	On board AC'97 Codec	Windows compatible sound card that supports 48KHz playback (PCI recommended)
Video	On board Graphic Windows compatible PCI graphic card (overlay support is recommended)	Windows compatible AGP or PCI graphic card (overlay support is recommended)
Hard Drive	* 70 MB got installation * 620MB for every hour of VCD quality MPEG-1 video * 2 GB for every hour of DVD quality MPEG-2 video	
Other	CD or DVD burner required for VCD and DVD burning. Appropriate hardware need to import video from external sources like DV cameras and camcorders.	

## USING THE DIGITAL VIDEO CAMERA AS A PC CAMERA

Your digital video 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 video camera as a PC camera, follow these steps:

Step 1: Installing the PC camera driver (same as USB driver).

Step 2: Connecting the digital video camera to your computer.

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



**NOTE**

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

## General System Requirements for Videoconferencing

To use the camera for videoconferencing, your computer system must include:

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

## Step 1: Installing the PC camera driver (same as USB driver)

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

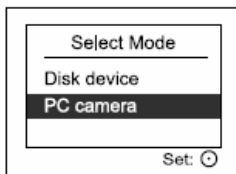
1. Insert the CD-ROM that came with the camera into your CD-ROM drive. The welcome screen appears.
2. Click "**Install USB/PC-Cam Driver**". Follow the on-screen instructions to complete the installation. After the driver installation is completed, restart your computer.

**NOTE**


- The USB driver that bundled with the CD-ROM is designed in a form 2 in 1 (USB & PC camera driver).
  - a) In Windows 98, the Windows OS will install both USB & PC camera drivers.
  - b) In Windows 2000/ME/XP, it will only install PC camera driver.

## Step 2: Connecting the digital video camera to your computer

1. Connect one end of the USB cable to the USB connector on the digital video camera.
2. Connect the other end of the USB cable to an available USB port on your computer.
3. Turn on the power.





- [Select Mode] menu appears on the screen.
- 4. Select [PC camera] with the zoom lever, and press the  button.
- 5. Position the digital video camera steadily on top of your computer monitor or use a tripod.

**NOTE**

- When using this digital video camera as a PC camera, there is no need to install any batteries into the digital video camera.

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

To use Windows NetMeeting for videoconference:

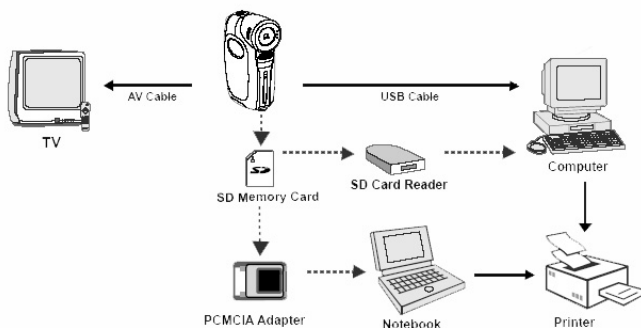
1. Go to **Start => Programs => Accessories => Communications => Net Meeting** to launch the NetMeeting program.
2. Click the Start Video button to view live video.
3. Click the Place Call button.
4. Type the e-mail address or the network address of the computer that you are calling.
5. Click Call. The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

**NOTE**

- 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.
- When the PC cam function is activated (i.e. images are being transferred), the LED (green color) blinks. If the USB cable is unplugged at the time of transferring images, the screen would become blank the next time when you run the PC cam function. In this situation, you should restart the computer. The proper operating method should be: Close the PC cam application, then remove the USB cable.



## CONNECTING THE DIGITAL VIDEO CAMERA TO OTHER DEVICES



## DIGITAL VIDEO CAMERA SPECIFICATIONS

Item	Description
Image Sensor	1/2" CMOS sensor
Effective pixels	2.0 Mega pixels
Image size	Still image: 2304 x 1728, 2048 x 1536, 1600 x 1200, 800 x 600 Video clip: 640 x 480, 320 x 240
Image quality	Still image: Super fine, Fine, Normal Video clip: Ultra fine, Super fine, Fine, Normal
Recording media	16MB internal memory SD memory card (optional, up to 512MB)
Compression format	MPEG 4 SP (Video), IMA-ADPCM (Audio)
File format	EXIF 2.1, DCF 1.0, JPEG, ASF (Video)



Lens	F-no. 3.0 Focal length:7.7mm
Focus range	Normal: 1.1m-infinity
	Macro: 0.35m-0.5m
LCD monitor	1.5" LTPS color LCD High-resolution 120K pixels display
Self-timer	3-sec delay, 10-sec delay
Exposure compensation	-1.8EV- +1.8EV (in 0.3EV increments)
White balance	Auto, Daylight, Shade, Fluorescent-1, Fluorescent-2, Lamp
ISO	Auto, 100, 200, 400
Interface	USB connector, A/V terminal
Power	2 x AA Alkaline/Ni-MH batteries (optional)
Dimension	Approx. 98 x 66 x 34 mm (excluding protruding parts)
Weight	Approx. 150g (without batteries and the SD memory card)

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