

FCC STATEMENT

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: 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.

Product Information

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

SAFETY INSTRUCTIONS

Read and understand all **Warnings** and **Cautions** before using this product.

Warnings

- **If foreign objects or water have entered the camera, turn the power OFF and remove the batteries and the AC power adapter.**

Continued use in this state might cause fire or electric shock. Consult the store of purchase.



- **If the camera has fallen or its case has been damaged, turn the power OFF and remove the batteries and the AC power adapter.**

Continued use in this state might cause fire or electric shock. Consult the retailer where you bought it.



- **Do not disassemble, change or repair the camera.**

This might cause fire or electric shock. For repair or internal inspection, contact your retailer.



- **Use the supplied AC adapter only with the indicated power supply voltage.**

Use with any other power supply voltage might cause fire or electric shock.



- **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 a traffic accident.



Cautions

- **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.



Notes on Battery Usage

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

- Use only the specified battery (NP60, 3.7V).
- Avoid using the battery in extremely cold environments as low temperatures can shorten the battery life and reduce digital video camera performance.
- When you are using the new rechargeable battery or rechargeable battery that has not been used for an extended period of time (the battery that passed the expiry date is an exception) might affect the number of images that can be captured. Therefore, to maximize its performance and lifetime, we recommend that you fully charge the battery and discharge it for at least one complete cycle before use.

- The battery may feel warm after long period of continuous use of the digital video camera or the flash. This is normal and not a malfunction.
- The digital video camera may feel warm after long period of continuous use.
This is normal and not a malfunction.
- If the battery is not to be used for a long period of time, remove it from the digital video camera to prevent leakage or corrosion.
- If the battery is not to be used for a long period of time, store it after no battery power left. If the battery is stored for a long time in a fully charged state, its performance may be impaired.
- Always keep the battery terminals in a clean state.
- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.

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Section 1

Getting to Know Your Digital Video Camera

◆ Overview

The camera with 5 Mega Pixel sensor can take DVD-Quality MPEG-4 movies. By way of using MPEG-4 technology, more videos can be taken within a certain amount of memory. High quality images up to 11 mega-pixels can also be delivered smoothly. With a color LCD monitor, users can compose images and examine them easily.

Exposure and color balance can either be adjusted automatically or be changed manually. An 8x digital zoom increases user control over the movies and pictures you take. The camera is also ideally suited for using as a PC camera hooked up to your home computer via high speed USB 2.0 port

Build-in 32 MB memory allows you to take pictures and movies without a memory card. The memory card slot allows users to increase the storage capacity up to 1G.

◆ **Standard Accessories**

Unpack the package and make sure all standard accessories listed are included:

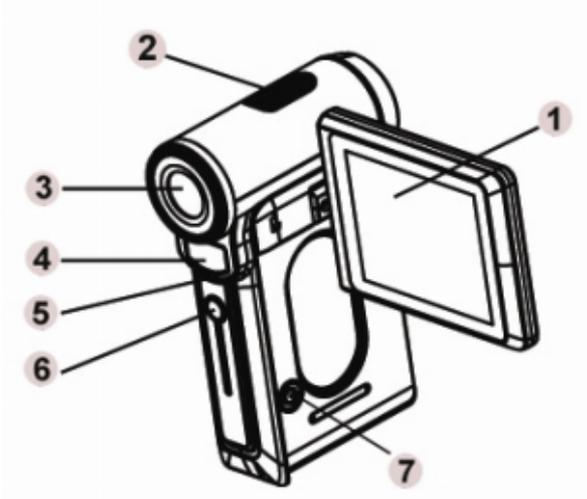
- Digital Video Camera
- Power Adaptor
- USB Cable
- AV Cable
- NP60 Rechargeable Lithium Ion Battery
- User's Manual
- CD-ROM (Driver, Ulead Software and User Manual)
- Earphone
- Remote Control
- Strap
- Pouch
- Tripod
- AC Plug Adaptor for EU to US



NOTE

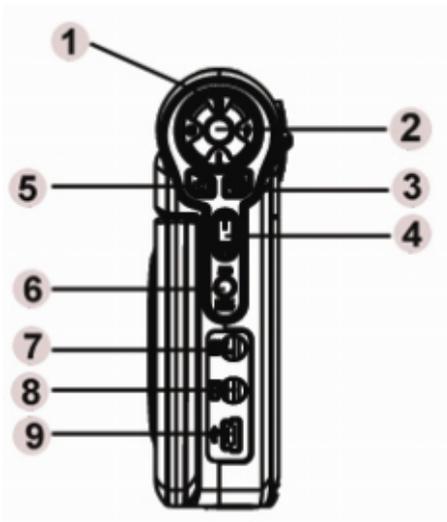
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- Accessory and components may vary by different retailer.
-

◆ Front View



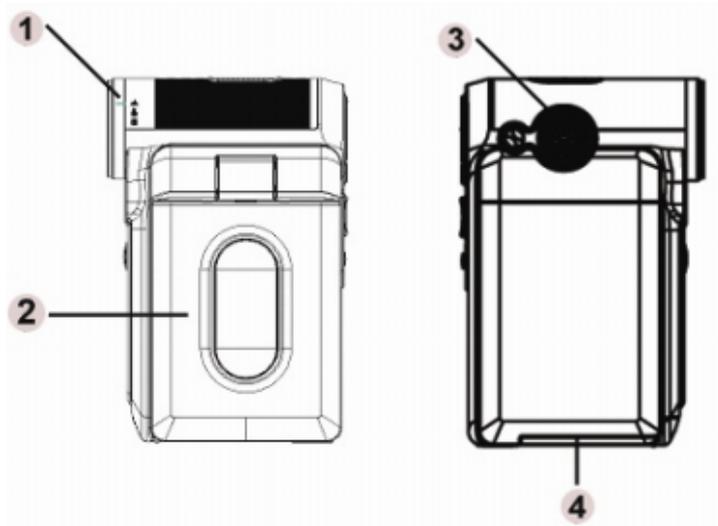
1. LCD Panel
2. Microphone
3. Lens
4. Flash
5. Self-Timer LED
6. IR Receiver
7. Power button

◆ KeyPad illustration



1. Direction Buttons
2. Enter Buttons
3. Movie Shutter Button
4. Tele-Wide Button
5. Picture Shutter Button
6. REC/PLAY Button
7. AV in
8. AV out/Earphone
9. USB 2.0 Port / Power Adaptor Port

◆ Side View



- 1. Macro, Portrait,
Normal mode Switch
- 2. LCD Panel
- 3. Speaker
- 4. Battery / SD Card
Cover

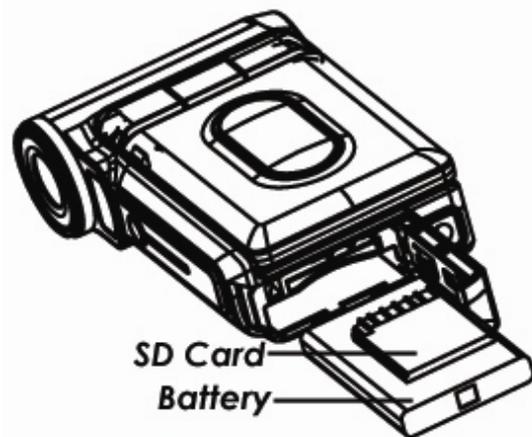
Section 2

Getting Up and Running

◆ Loading the Battery

Before using the camera, user must load NP60 rechargeable Li-ion battery.

1. Follow the arrow direction and slide to eject the battery / SD cover.
2. Insert the batteries according to the correct polarity marks (+ or -)
3. Close the battery/SD Card Cover firmly.



💡 NOTE

- NP60 is the widely-used rechargeable Li-ion battery developed by Nokia for mobile phones.

◆ Charging the Battery

Please fully charge Li-ion Battery via power adaptor for at least ten hours before you use the camera for the first time.

- (1) Plug power adaptor cable into the USB port.
- (2) When charging battery, the self-timer LED light keeps blinking. LED light will stay on after battery charge completes.

(3) It takes three hours to fully recharge the battery each time.

◆ Inserting and Removing an SD Card (Optional)

The camera comes with 32 MB built-in memory which allows you to store pictures, movies, recorded voice and music. You can expand the memory capacity by using an optional SD or MMC memory card up to 1G. To insert a memory card, refer to the figure above and:

1. Open the battery/SD card cover.
2. Insert the memory card until it locks into position.

To remove an installed SD card, press the card inwards to release it. When the card pops out, gently remove it from its slot.

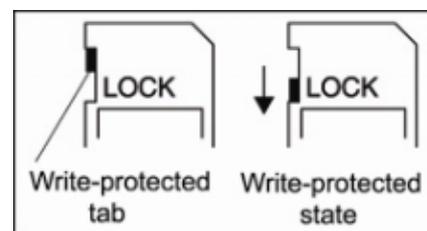


NOTE

- When a memory card is fitted, movies and pictures are saved on the card rather than on the built-in memory.

◆ Protecting Data on an SD Card

SD card is read-only by locking the SD card. No pictures, movies and voice can be recorded when the SD card is locked. Make sure the lock is on writeable position before recording any media.



◆ Turning the Digital Video Camera On and Getting Started

To turn on the camera:

(1) Flip out the LCD panel; the digital video camera will turn on automatically. When the digital video camera is turned on, the green LED will light up.

(2) Or press Power Button for one second to turn on it.

⇒ To take a movie, press the Movie Shutter Button ().

⇒ To take a picture, press the Picture Shutter Button ().

⇒ To record the voice, press the Upper Button of Direction Buttons and press the Movie Shutter Button () to start voice recording.

⇒ To view stored movies, pictures or listen to stored MP3 and voice recordings, press the REC/PLAY Button once to switch to Playback Mode. Press a second time to return to Record Mode.

◆ Turning the Digital Video Camera Off

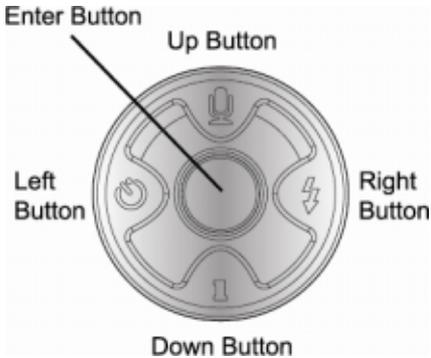
1. To turn off the Digital Video Camera, you can either press or hold the [Power] Button for one second, or you can place the panel back to its original position.

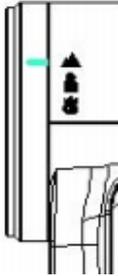
2. If no operation is made in 3 minutes, the digital video camera will turn itself off automatically to conserve battery power.

Section 3

Record Mode

◆ Button Function

	<p>Right Button : Flash AUTO/OFF Left Button : Self-Timer ON/OFF Up Button : Voice Recording Mode ON/OFF Down Button: LCD Information ON/OFF Enter Button : Menu ON</p>
	<p>Power Button: Press down for one second to turn on or turn off the camera.</p>
	<p>REC/PLAY Button: Switch between Record Mode and Playback Mode.</p>
	<p>Tele-Wide Button: Digital Zoom in and out.</p>
	<p>Movie Shutter Button: Start to take movie, or record voice.</p>
	<p>Picture Shutter Button: Start to take picture</p>

	<p>Macro switch: Switch between Macro Mode, Portrait Mode, and Normal Mode.</p>
---	--

◆ Option Menu

 Movie Mode		
 Resolution	 High	640 x 480 (1.8 Mbps)
	 Std	640 x 480 (1 Mbps)
	 Low	320 x 240 (500 Kbps)
 Sharpness	Adjust with nine sharpness settings to soften or sharpen picture/movie.	
WB White Balance	 Auto	Automatic adjustment
	 Daylight	Use under outside light condition
	 Fluorescent	Use under fluorescent light condition
	 Tungsten	User under tungsten light condition
 Motion Stabilization	On	Corrects camera shake instantly, giving you smooth and stable video.

	off	Disables motion stabilization
 Camera Mode		
 Resolution	★★★ High	3856 x 2892 (11M)
	★★ Std	2592 x 1944 (5 M)
	★ Low	1600 x 1200 (2 M)
 Two in One Mode	On	Combines two snapshots into one frame
	off	Disables Two in One
 Photo Frame	Adds photo frame to the picture	
 Flash	 On	The flash will fire in any light condition.
	 Auto	The flash fires automatically according to the scenic light condition.
	 Off	The flash will not fire in any light condition.
 Self-Timer Mode	 On	Activates 10-second-delayed Self-Timer.
	 Off	Disables Self-Timer
 Sharpness	Adjust with nine sharpness settings to soften or sharpen picture/movie.	

WB White Balance	 Auto	Automatic adjustment
	 Daylight	Use under outside light condition
	 Fluorescent	Use under fluorescent light condition
	 Tungsten	User under tungsten light condition
 Multi-Snap	On	Takes 5 continuous pictures at one time
	Off	Disables Multi-Snap
 Backlight	On	Brightens the object when its background is much brighter than the object.
	Off	Disables Backlight mode
 Date Printing	On	Imprints the date on picture.
	Off	Disables Date Printing

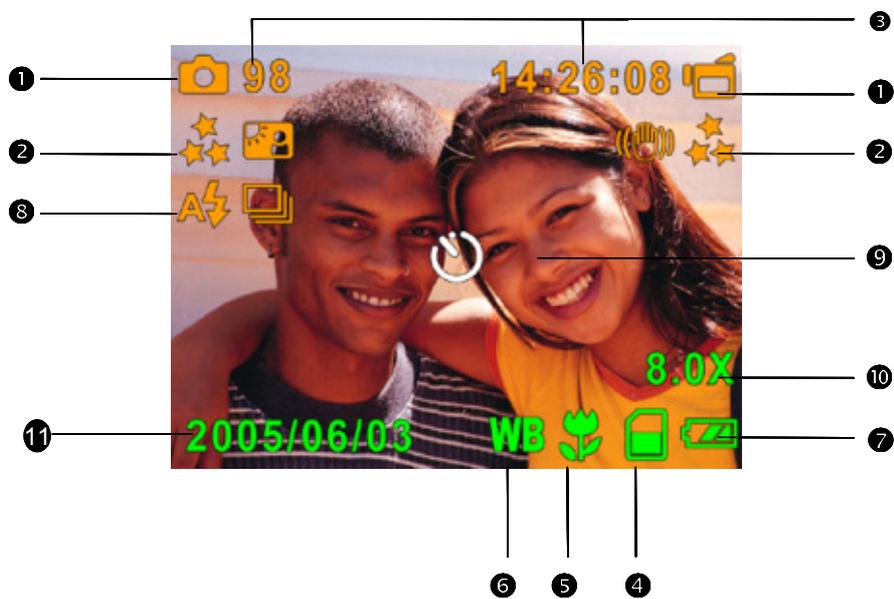
 Voice Pen	
 Enter	Enters the voice recording section
 Exit	Exits the menu.

 Exposure	
---	--

+1.0EV, +0.6EV, +0.3EV, 0EV, -0.3EV, -0.6EV, -1.0EV	Selects one of the 7 exposure compensation values (-1 to 1.0 EV)
 Effect	
Normal	No special effects applied to the picture.
B/W	Picture is converted to black-and-white.
Classic	Sepia look is applied to the image.
Negative	The image is converted as the negative of the normal.
SET Setting	
Sound	On: Enable operation sound; Off: Disable operation sound
Start-up Screen	Customize Startup Screen
Time Setting	Setup Date and Time
Format Card	YES: Format SD card; NO: Do not format SD card
TV System	TV output setting is NTSC standard
	TV output setting is PAL standard
Language	English, Russian, German, Spanish, Brazil Portuguese and Simplified Chinese.
Default Setting	Yes: Restore default factory setting No: Do not restore default factory setting

◆ LCD Monitor Information

There indicators may display on LCD when movies and pictures are recorded :



(1)	Record Mode	
		Movie Record Mode
		Picture Record Mode
		Voice Record Mode
		Motion Stabilization

		Two in One Mode
		Photo Frame
		Multi-Snap Mode
		Backlight Mode
	Resolution	
(2)	Movie :  High /  Standard /  Low	
	Picture:  High /  Standard /  Low	
(3)	Number of images or recording time of movie that can still be taken at current resolution.	
(4)		SD card inserted
(5)		Macro Position Focusing
(6)	WB	White Balance
(7)	Battery indicator :  Full power /  medium power /  low power /  power exhausted	
(8)		Auto Flash
		Flash Off
		Flash On

(9)		Self-Timer Mode
(10)	8X digital zoom	
(11)	Date/Time : YYYY/MM/DD HH: MM	

◆ MPEG4 Movie Recording

The camera is turned on in movie record mode as default setting. You can start recording movie by pressing the Movie Shutter Button (). When a movie is recording, a time indicator will display on LCD monitor.

To stop recording, press Movie Shutter Button again().

To view stored movies, press the REC/PLAY Button once to switch to Playback Mode.

Resolution	Quality	32 MB internal memory	SD Card			
			128 MB	256MB	512MB	1GB
640*480 (1.8Mbps) / 30 fps	 High Quality	01:06	10:38	21:16	42:32	01:25:04
640*480 (1 Mbps) / 30 fps	 Standard Quality	01:54	18:23	36:46	01:13:32	02:27:04
320*240 (500 Kbps) / 30 fps	 Low Quality	03:48	36:47	01:13:34	02:27:08	04:54:16

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

◆ Picture Recording

Press the Picture Shutter Button () to take a picture.

Three resolution settings are available.

Resolution	Image Quality	32 MB internal memory	SD Card			
			128MB	256MB	512MB	1GB
3856*2892 (11 M pixel)	 High Quality	5	34	68	136	272
2592*1944 (5 M pixel)	 Standard Quality	9	90	180	360	720
1600*1200 (2 M pixel)	 Low Quality	25	230	460	920	1840

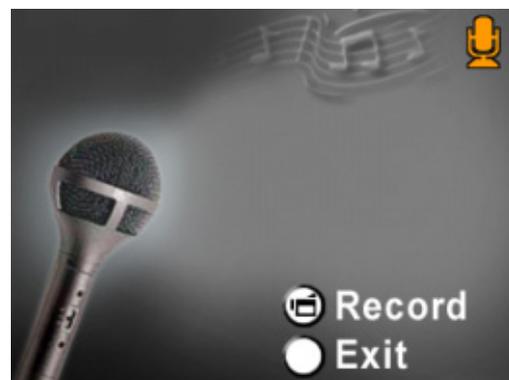
* The data shows the standard testing results. The actual capacity varies according to the shooting conditions and settings.

◆ Voice Recording

1. Press Upper Button of direction Buttons to switch to Voice Record Mode.

2. Press Movie Shutter Button

() to record voice.



3. Press Movie Shutter Button

() again to stop.

4. Press Enter button to exit.

◆ Taking Close up pictures

The camera has two close-up picture modes to allow you to take pictures at close range. The Macro Mode () should be used for object located at about 20 cm, while the Portrait Mode () should be used for objects located from 70 cm to 140 cm.

To take close-up pictures:

1. Rotate the lens ring to switch to Macro () or Portrait () positions. In Macro Mode, the macro icon () will appear on the LCD monitor.
2. Press the Picture Shutter Button () to take the picture.



NOTE

- Remember to turn the macro switch back to Normal () when you are not taking close-up pictures.

◆ Using Digital Zoom

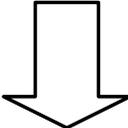
The digital zoom magnifies images up to eight times when recording movies or taking pictures.

1. To zoom in/out, press the Tele/Wide Button.
2. The digital zoom can be set from 1x to 8x and the magnification ratio is shown on the LCD monitor.

◆ Options for Record Mode

Movie Mode	Picture Mode	Voice Pen	Exposure	Effect	Set
<ul style="list-style-type: none"> ● Resolution ● Sharpness ● White Balance ● Stabilization ● Exit 	<ul style="list-style-type: none"> ● Resolution ● Two in One ● Photo Frame ● Flash ● Self-Timer ● Sharpness ● White Balance ● Multi-snap ● Backlight ● Date printing ● Exit 	<ul style="list-style-type: none"> ● ON ● Exit 	<ul style="list-style-type: none"> ● +1.0EV ● +0.6EV ● +0.3EV ● 0EV ● -0.3EV ● -0.6EV ● -1EV ● Exit 	<ul style="list-style-type: none"> ● Normal ● B/W ● Classic ● Negative ● Exit 	<ul style="list-style-type: none"> ● Sound ● Start-up ● Screen ● Time Setting ● Format ● Memory ● TV System ● Language ● Default Setting ● Exit

◆ Options for Record Mode

Operation	Screen
<p>1. Press the Enter Button when in Movie/Picture Record Mode.</p>	
<p>2. Use the Right/Left Buttons to move between main menu options, which are Movie Mode, Camera Mode, Voice Mode, Exposure, Effect, and Set. Submenu will pop out while move to each main option.</p> <p>3. Press Enter button to validate sub option you select.</p>	<p style="text-align: center;">  Enter Button </p> 

◆ Default Setting and Validation

The following table indicates the camera's default setting as well as its validation.

1. Always: The setting always keeps valid.
2. One Time: The setting is only valid either once or till camera power off.

	Validation	Default Factory Setting
Resolution	Always	High for Movie Standard for Picture
Sharpness	One Time	Medium
White Balance	Always	Auto
Motion Stabilization	Always	Off
Two in One	One Time	Off
Photo Frame	Always	Off
Flash	Always	Off
Self-Timer	One Time	Off
Multi-Snap	One Time	Off
Backlight Mode	Always	Off
Date Printing	Always	Off
Exposure	Always	0EV
Effect	Always	Normal
Sound	Always	On
Start-Up Screen	Always	Optional
Format Card	One Time	Off
TV System	Always	Depends on shipping area
Language	Always	Depends on Shipping area
Volume	Always	Level 6

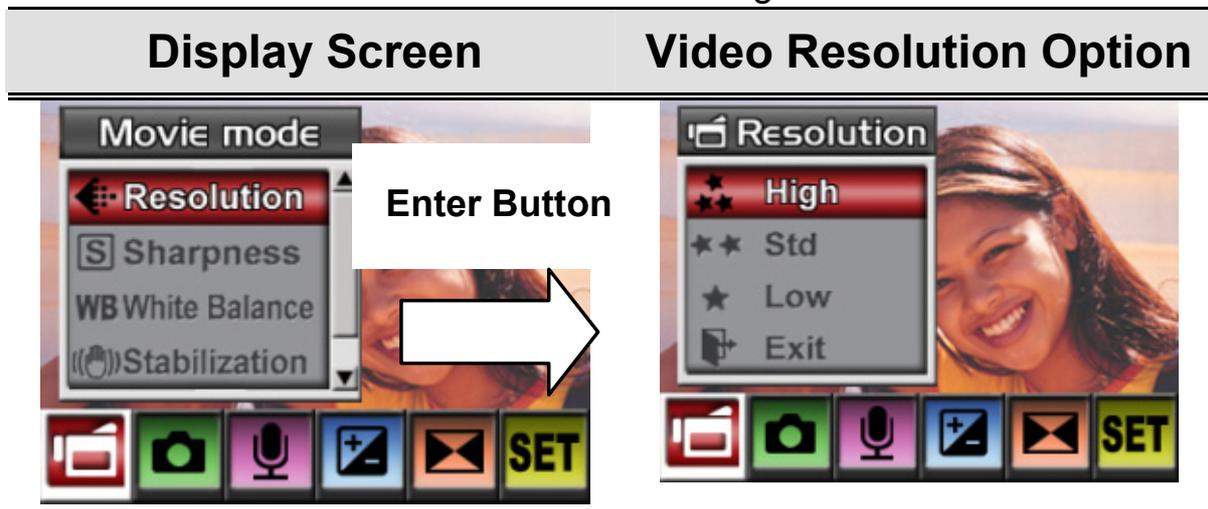
◆ Movie Mode submenu Setting

Record main menu includes camera setting and other advanced setting. You can use Right/Left Buttons to move between options and press Enter button to validate the setting.

◆ Movie Resolution

To change Movie Resolution:

1. In Movie/Picture Record Mode, press Enter button to switch to record menu screen.
2. The default main option is Movie Mode. Submenu of Movie Mode will pop out on the screen.
3. Use Up/Down buttons to select Resolution then press Enter buttons to switch to Resolution submenu.
4. Use Up/Down buttons to move between three settings.
5. Press Enter button to validate the setting and exit.

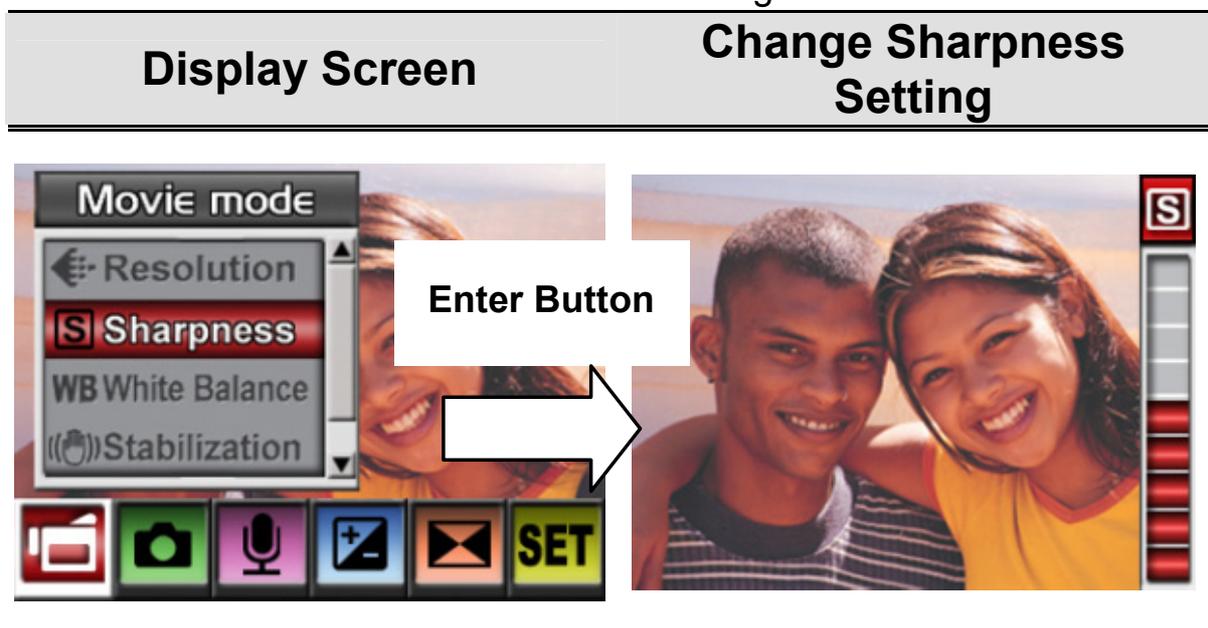


◆ Sharpness

Your can soften and sharpen images to achieve different effects.

To change Sharpness setting:

1. In Movie/Picture Record Mode, press Enter button to switch record menu screen. Submenu of Movie Mode will pop out on the screen.
2. Use Up/Down buttons to select Sharpness then press Enter buttons to switch to Sharpness submenu.
3. Use Up/Down buttons to move between nine levels. The change can be previewed immediately.
4. Press Enter button to validate the setting and exit.



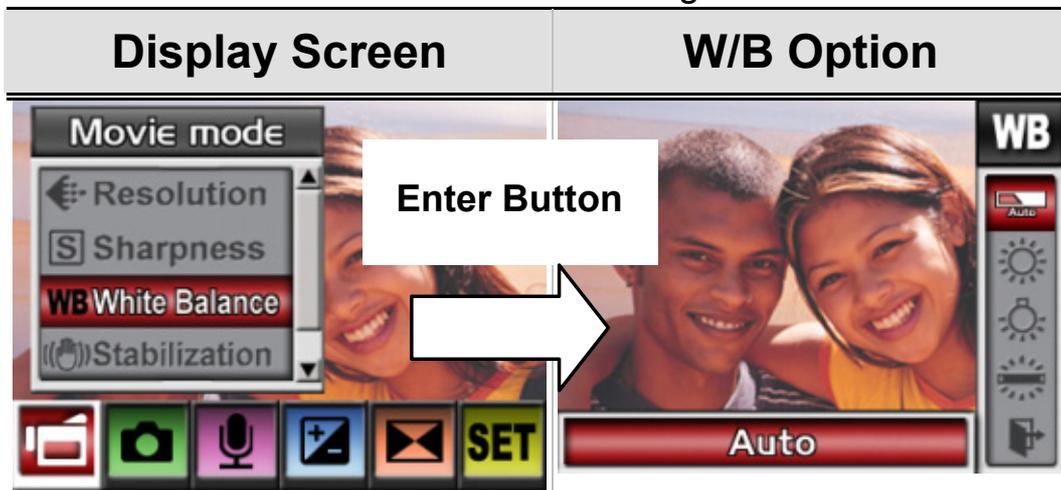
◆ White Balance

The camera adjusts the color balance of images automatically. Three manual white balance settings are available:

1. Auto (Default): The camera automatically adjusts white balance.
2. Daylight: Under outdoors
3. Fluorescent: Under fluorescent light condition.
4. Tungsten: Under tungsten light condition.

To change White Balance Setting:

1. In Movie/Picture Record Mode, press Enter Button to switch to record menu screen. Submenu of Movie Mode will pop out on the screen.
2. Use Up/Down Buttons to select White Balance, then press Enter buttons to switch to White Balance submenu.
3. Use Up/Down buttons to move between four settings. The change can be previewed immediately.
4. Press Enter button to validate the setting and exit.



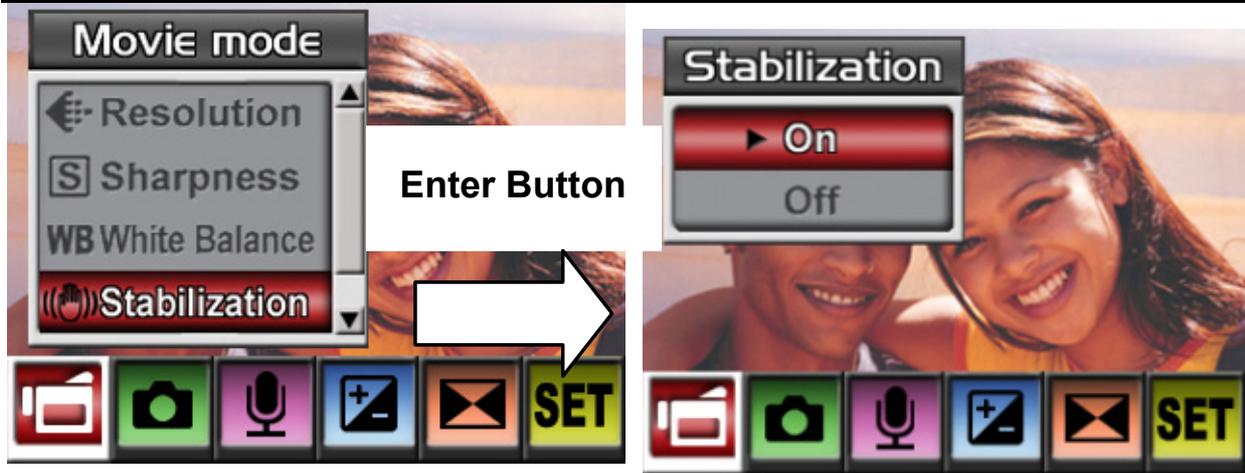
◆ Motion Stabilization

To enable Motion Stabilization:

1. In Movie/Picture Record Mode, press Enter button to switch to record menu screen. Submenu of Movie Mode will pop out on the screen.
2. Use Up/Down buttons to select Motion Stabilization then press Enter buttons to switch to Motion Stabilization submenu.
3. Use Up/Down buttons to choose ON or OFF.
4. Press Enter button to validate the setting and exit.

Motion Stabiization

Motion Stabilization Option



 **NOTE**

- The captured screen will be smaller when motion stabilization is enabled.

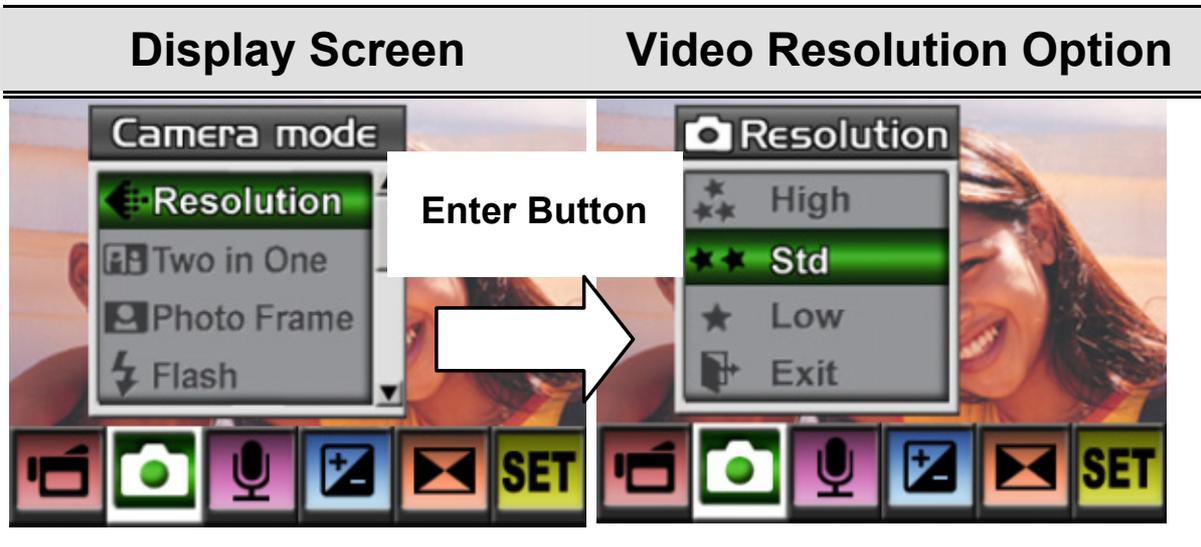
Camera Mode

◆ Picture Resolution

To change Picture Resolution:

1. In Movie/Picture Record Mode, press Enter button to switch to record menu screen.
2. Use Right/Left Buttons to select Camera Mode. Submenu of Camera Mode will pop out on the screen.
3. Use Up/Down Buttons to select Resolution then press Enter buttons to switch to Resolution submenu.
4. Use Up/Down buttons to move between three settings.

5. Press Enter button to validate the setting and exit.



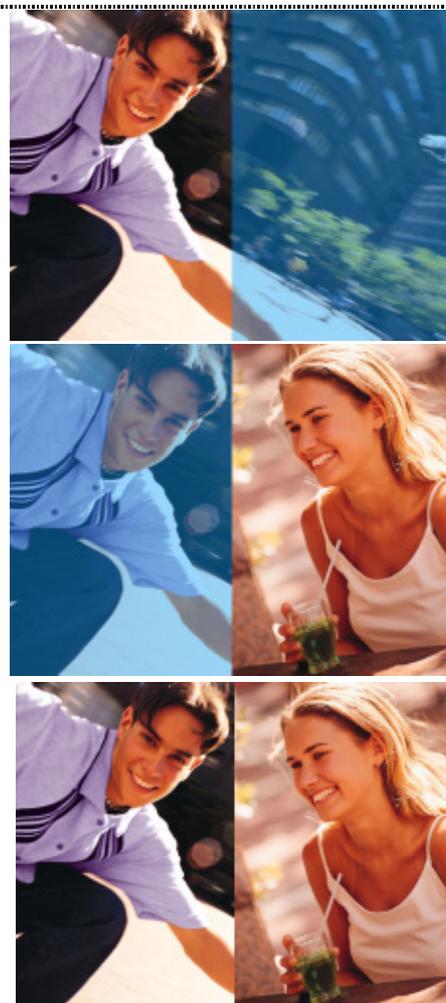
◆ Two in One (Picture Record Mode Only)

With camera set to Two in One mode, you can combine two snapshots into one picture. To enable Two in One:

1. In Movie/Picture Record Mode, press Enter button to switch to record menu screen.
2. Use Right/Left Buttons to select Camera Mode. Submenu of Camera Mode will pop out on the screen.
3. Use Up/Down buttons to select Two in One then press Enter buttons to switch to Two in One submenu.
4. Use Up/Down buttons to choose ON or OFF.
5. Press Enter button to validate the setting and exit.

Display Screen

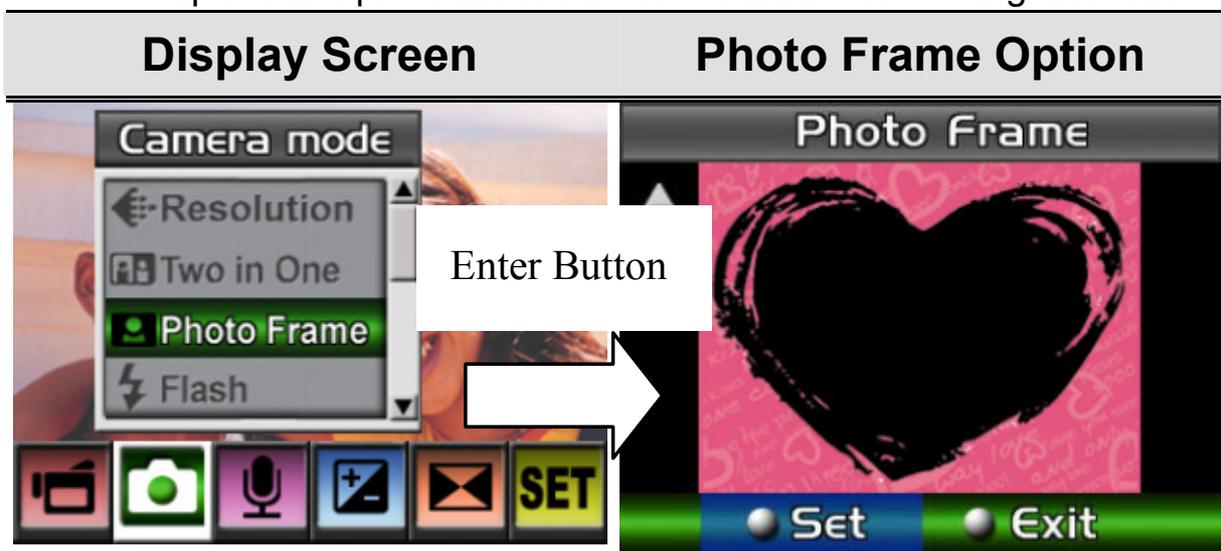
Two in One Option



◆ Photo Frame (Picture Record Mode Only)

Your camera features popular electronic photo frame. You can take your picture with preferred electronic photo frame. To enable Photo Frame:

1. When in Camera Mode, use Up/Down buttons to select Photo Frame option, then press Enter button to switch to Photo Frame submenu.
2. Use Up/Down buttons to locate preferred photo frame. Then select Set option and press Enter button to validate the setting and exit.



◆ Flash (Picture Record Mode Only)

This camera has two flash settings. You can change flash setting by either hot key (Right Button) or Option Setting.

- **Auto-flash**(A[⚡]) : the flash fires automatically according to light conditions. Use this mode for general photography.

- **Flash On** (⚡): the flash will fire in every shot.
- **Flash Off** (⚡ with slash): the flash will not fire under any circumstances. Use this mode when taking images in a place where flash photography is prohibited, or when the subject is distant (beyond the range of the flash).

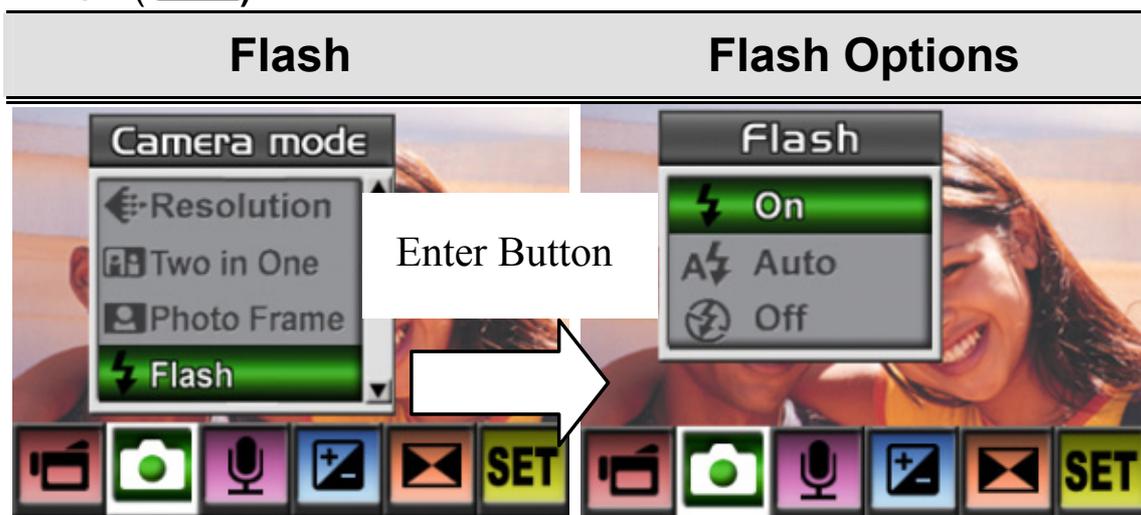
To change Flash setting:

3. When in Camera Mode, use Up/Down Buttons to select Flash Option, then press Enter buttons to switch to Flash submenu.
4. Use Up/Down Buttons to move between three settings.
5. Press Enter button to validate the setting and exit.



NOTE

- The flash will be disabled automatically when battery power is low (🔋)



◆ Self-Timer (Picture Record Mode Only)

The self-timer allows you to take pictures with a ten-second time delay. Activate Self-Timer by either hot key (Left Button) or Option Setting. The self-timer LED on the front of the camera beneath the flash light will also blink. The speed of blinking will increase just before the picture is taken.

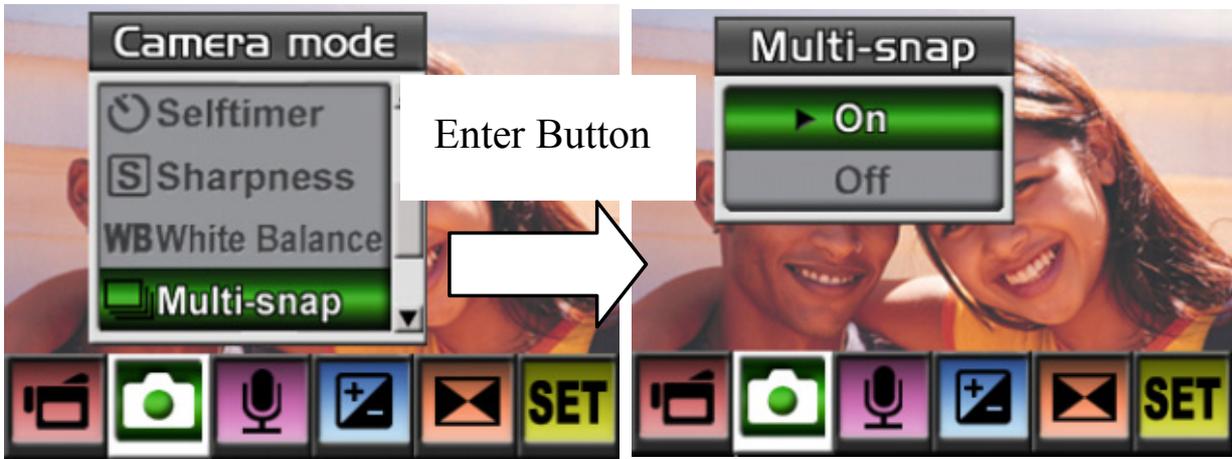
Self-Timer



◆ Multi-Snap (Picture Record Mode Only)

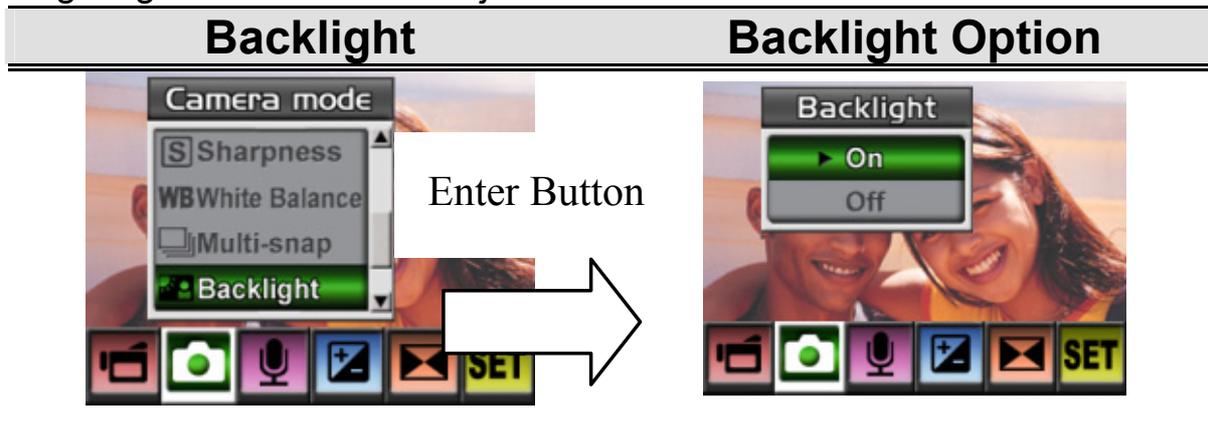
With the camera set to Multi-Snap Mode, you can take five continuous pictures.

Multi-Snap	Multi-Snap Option
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◆ Backlight (Picture Record Mode Only)

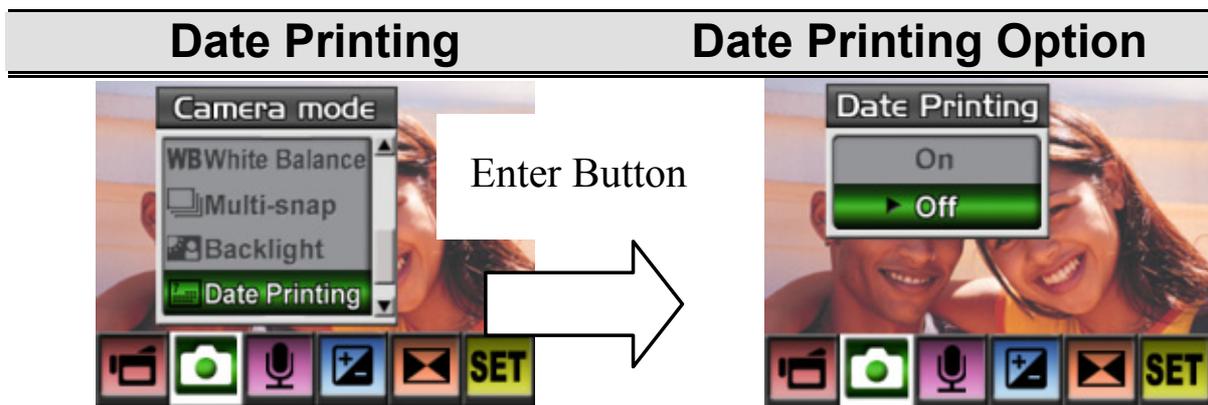
With the camera set to backlight Mode, you can take shots when bright light is behind the subject.



◆ Date Printing

To enable Date Printing:

1. When in Camera Mode, use Up/Down Buttons to select Date Printing, then press Enter buttons to switch to Date Printing submenu.
2. Use Up/Down Buttons to choose On or Off.
3. Press Enter button to validate the setting and exit.



Voice Mode

To enable voice recording:

1. In Movie/Picture Record Mode, press Enter button to switch to record menu screen.
2. Use Right/Left Buttons to move to Voice Option. Then Voice Submenu will pop out on the screen.
3. Use Up/Down Buttons to move between Enter and Exit Option.
4. Choose Enter option to enable voice recording and press Enter button to validate the setting and exit.



◆ Exposure Setting

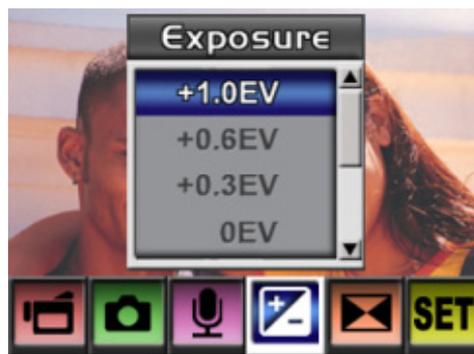
The camera adjusts image exposure automatically. In certain circumstances you may wish to adjust the exposure compensation setting.

To change Exposure setting:

1. In Movie/Picture Record Mode, press Enter button to switch to record menu screen.
2. Use Right/Left Buttons to move to Exposure Option. Then Exposure Submenu will pop out on the screen.

3. Use Up/Down Buttons to choose preferred EV value. The change can be previewed immediately.
4. Press Enter button to validate the setting and exit.

Exposure



◆ Effect Setting

There are four modes are Normal, Black/White, Classic and Negative.

To change Effect setting:

1. In Movie/Picture Record Mode, press Enter button to switch to record menu screen.
2. Use Right/Left Buttons to move to Effect Option. Then Effect Submenu will pop out on the screen.
3. Use Up/Down Buttons to move between four settings. The change can be previewed immediately.
4. Press Enter button to validate the setting and exit.

Display Screen



◆ Set Menu

The Setting submenu contains options for configuring your camera set up.

To change advanced setting:

1. In Movie/Picture Record Mode, press Enter button to switch to record menu screen.
2. Use Up/Down Buttons to select Setting then press Enter buttons to switch to Setting submenu.
3. Use Up/Down Buttons to move between settings.

Display Screen

Setting Option



- Sound (operation sound)
- Start-Up Screen
- Time Setting
- Format Card
- TV System
- Language
- Default Setting

• **Sound Setting**

Enable or disable KeYPad tone and operation sound by using Up/Down buttons, press Enter button to validate the setting.

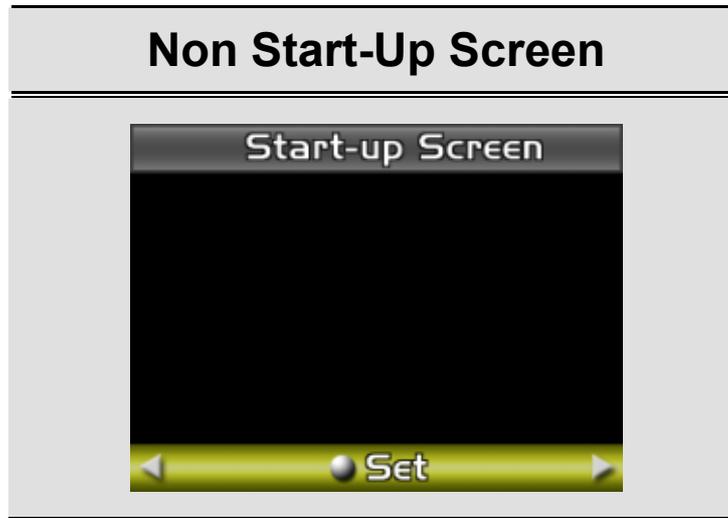
Submenu	Display Screen	Sound Setting
Sound		

• **Start-up Screen**

Customize the Start-Up Screen with your favorite pictures. Press Right/Left buttons to select the picture you want and press Enter button to validate the setting and exit.

Submenu	Display Screen	Start-Up Screen
Start-Up Screen		

If you do not want to customize the start up screen, press Left/Right Buttons and select Non Start-Up Screen.



• Time Setting

1. Move between Date, Time and Exit by using Left/Right Buttons.
2. Adjust date and time by using Up/Down Buttons, then select SET to validate each change.
3. Select EXIT to leave Time Setting without any change.

Submenu	Display Screen	Time Setting
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Time
Setting



• **Format Card**

Submenu	Display Screen	Format Card Options
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Format Card



Yes : Format the SD Card / built-in memory

No (Default) : Do not format SD Card / built in memory

• **TV System**

Ensure that the appropriate TV standard of your area is selected – either NTSC or PAL.

Wrong TV system setting may cause image flicker.

NTSC standard: USA, Canada, Japan, South Korea and Taiwan etc.

PAL standard: UK, Europe, China, Australia, Singapore and Hong Kong etc.

Submenu	Display Screen	TV System Option
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TV System



- **Selecting Interface Language**

Submenu	Display Screen	Language Option
Language		English, Russian, German, Spanish, Brazil Portuguese and Simplified Chinese.

- **Default Setting**

To restore the default factory setting, select this option.

Submenu	Display Screen	Default Setting Options
Default Setting		

Section 4

Playback Mode

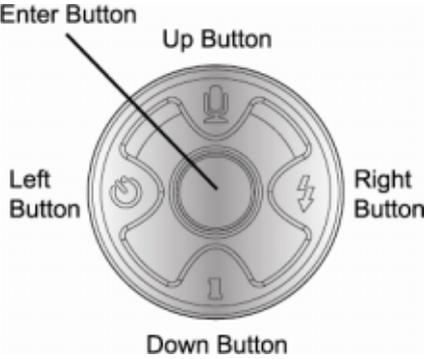
Press REC/PLAY Button to switch from Record Mode to Playback Mode.

The Playback Mode is for viewing and managing movies and pictures as well as listening to voice and music on the built-in memory or on an optional memory card.

Operation	Display Screen
<p>Press REC/PLAY Button to switch from Record Mode to Playback Mode Main Menu.</p> <ul style="list-style-type: none"> • There are four options in the Playback Mode: movie, picture, voice, and music. • Up/Down Button can be used to select the specific option. <p>Press Enter button to view movies/pictures or listen to voice/music.</p>	 <p>The screenshot shows a vertical list of four menu items, each with a folder icon and a corresponding icon to its left: a film strip for 'Movie', a camera for 'Picture', a microphone for 'Voice', and musical notes for 'Music'. The background is a dark purple gradient.</p>

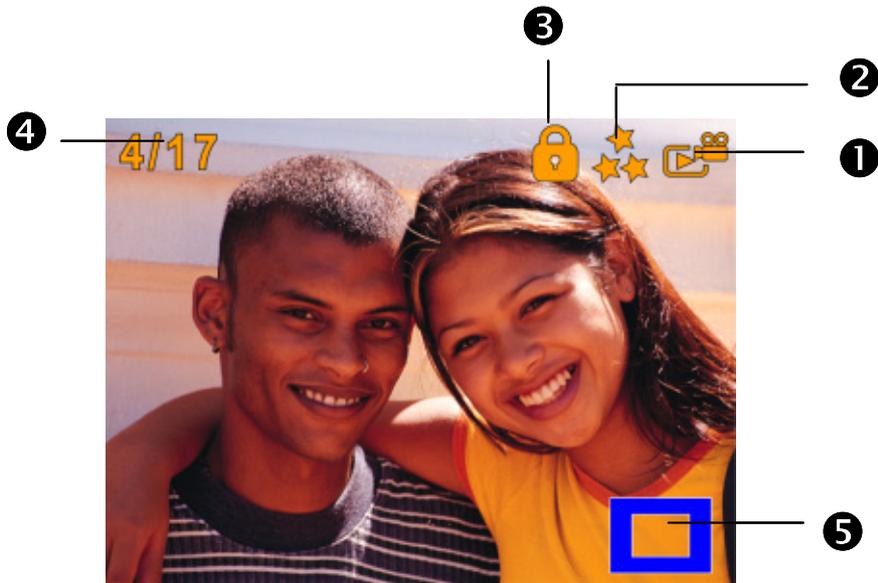
◆ Button Functions

The Direction Buttons have the following functions in Movie and Picture Playback Modes.

	<p>Right Button: Go to the next movie/ picture.</p> <p>Left Button: Go to the previous movie/ picture.</p> <p>Up Button: Invalid</p> <p>Down Button: Information ON/OFF</p> <p>Enter Button: Enter to movie, picture, voice, or music option menu.</p>
	<p>REC/PALY Button: Switch between Movie/Picture Record Mode and Playback Menu.</p>
	<p>Tele-Wide Button: Digital Zoom in and out.</p>

◆ LCD Monitor Information

Indicators on the LCD screen while in Playback Mode :



	Mode Indicator	
(1)		Movie Playback Mode
		Picture Playback Mode
		Voice Playback Mode
		Music Playback Mode

	Resolution Indicator
(2)	Movie :  High /  Standard /  Low
	Picture:  High /  Standard /  Low
(3)	 Indicate the selected movie/picture is locked.
	 Indicate the single movie/voice/MP3 is being repeated.
	 Indicate all of the movies/voices/MP3s are being repeated.
	 Indicate the slide show is playing.
(4)	Current Number/ Total number of movie, picture, voice, or music.
(5)	 Magnification Indicator.

◆ Movie Playback

Operation	Display Screen
<ol style="list-style-type: none"> 1. Use Direction Buttons to select the Movie option. 2. Press Enter button to go to Movie Playback Mode. 	
<ol style="list-style-type: none"> 3. Use Right/Left Buttons to go to the next or last movie. 4. Press Movie Shutter Button to start the movie playing, and then press it again to pause. 5. While playing movie, press down Right or Left button to fast-forward/fast back forward, then release the button to stop. 6. Use the Up or Down buttons to adjust volume. 	

<ol style="list-style-type: none"> 7. Press Enter button to go to the movie option menu. 8. Use Direction Buttons to select six options, Delete, Thumbnail, Lock, Repeat One, Repeat All, or Exit. 	
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◆ Delete Movies

Operation	Display Screen
<ol style="list-style-type: none"> 1. Use Direction Buttons to select the Delete option (). 	

Operation	Display Screen
<ol style="list-style-type: none"> 2. Press Enter button to go to the Delete menu. 3. Use Right/Left Buttons to select the movie. 4. Use Up Button to delete all movies and Down Button to delete single movie. 5. Before a movie is deleted, a confirmation screen will appear. Choosing “Yes” will execute the operation, “No” will cancel the operation. Press Enter button to confirm the operation. 6. Press Enter button to exit. 	

NOTE

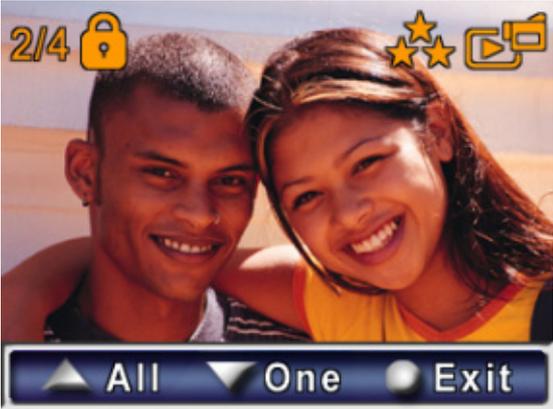
- If a memory card is fitted, you can delete only those movies stored on the card.
- Movies on a written-protected memory card cannot be deleted.
- The delete function will only erase unlocked movies. Locked movies must be unlocked before being deleted.

◆Thumbnail Function

Operation	Display Screen
<p>1. Use Direction Buttons to select the Thumbnail option .</p>	
<p>2. While selecting Thumbnail option, press Enter button to view nine thumbnail pictures.</p> <p>3. To view a picture, use Direction Buttons to select the picture.</p> <p>4. Press Enter button to view the selected picture.</p>	

◆Lock Movies

Single or all movies can be locked. This function can prevent the movies from being deleted accidentally.

Operation	Display Screen
<ol style="list-style-type: none"> Use Direction Buttons to select the Lock option (). Press Enter button to go to the Lock menu. 	
<ol style="list-style-type: none"> Use Right/Left Buttons to select the movie. Use Up Button to lock/unlock all movies and Down Button to lock/unlock single movie. Before a movie is locked/unlocked, a confirmation screen will appear; choosing “Yes” will execute the operation, “No” will cancel the operation. Press Enter button to exit. 	

◆ Repeat Movies

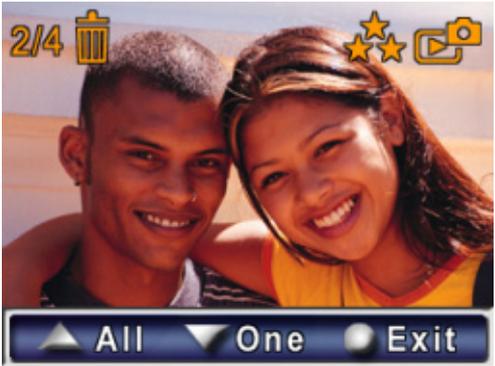
This function automatically repeats playing single movie or all movies in order.

Operation	Display Screen
<p>1. Use Direction Buttons to select the Repeat One option () or Repeat All option ().</p> <p>2. Press Enter button to start repeating.</p>	 

◆ Picture Playback

Operation	Display Screen
<ol style="list-style-type: none"> 1. Use Direction Buttons to select the Picture option. 2. Press Enter button to go to Picture Playback Mode. 	 <p>A screenshot of the main menu interface. It features four large, rounded rectangular buttons stacked vertically. Each button has a small icon on the left and a folder icon followed by text on the right. From top to bottom: a green camera icon with 'Movie', a red camera icon with 'Picture', a yellow microphone icon with 'Voice', and a blue music note icon with 'Music'. The 'Picture' button is highlighted with a blue border.</p>
<ol style="list-style-type: none"> 3. Use Right/Left Buttons to go to the next or last picture. 4. While the picture is selected, use Tele/Wide Buttons to magnify. 5. Use Direction Buttons to navigate the magnified picture. 	 <p>A screenshot showing a magnified photograph of a smiling man and woman. In the top left corner, the text '4/17' is displayed. In the top right corner, there are several small icons: a yellow padlock, three yellow stars, and a yellow camera icon. A blue square frame is overlaid on the bottom right corner of the photo, indicating the current magnification area.</p>
<ol style="list-style-type: none"> 6. Press Enter button to go to the picture option menu. 7. Use Direction Buttons to select Delete, Thumbnail, Lock, Slideshow, or Exit. 	 <p>A screenshot showing the picture playback menu. The background is the same magnified photo of the man and woman. At the bottom, the word 'Delete' is written in white on a red background. Below this, there is a row of five icons: a red trash can, a green checkered pattern, a purple padlock, a blue film strip, and a yellow exit door.</p>

◆ Delete Picture

Operation	Display Screen
<p>1. Use Direction Buttons to select the Delete option ().</p>	
<p>2. Press Enter button to go to the Delete menu.</p> <p>3. Use Right/Left Buttons to select the picture.</p> <p>4. Use Up Button to delete all pictures and Down Button to delete single picture.</p> <p>5. Before a picture is deleted, a confirmation screen will appear; choosing “Yes” will execute the operation, “No” will cancel the operation.</p> <p>6. Press Enter button to exit.</p>	

NOTE

- If a memory card is fitted, you can delete only those pictures stored on the card.
- Pictures on a written-protected memory card cannot be deleted.
- The delete function will only erase unlocked pictures. Locked pictures must be unlocked before being deleted.

◆ Lock Pictures

Single or all pictures can be locked. This function can prevent the pictures from being deleted accidentally.

Operation	Display Screen
1. Use Direction Buttons to select the Lock option ().	
1. Press Enter button to go to the Lock menu. 2. Use Right/Left Buttons to select the picture. 3. Use Up Button to lock/unlock all pictures and Down Button to lock/unlock single picture. 4. Before a picture is	

<p>locked/unlocked, a confirmation screen will appear; choosing “Yes” will execute the operation, “No” will cancel the operation.</p> <p>5. Press Enter button to exit.</p>	
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◆ Make Slide Show

This function automatically repeats all pictures in order.

Operation	Display Screen
<ol style="list-style-type: none"> Use Direction Buttons to select the Slide option (). Press Enter button to start the slide show; Press it again to stop. 	

Voice Playback

◆ Direction Buttons Function

In Voice Playback Mode, the Direction Buttons have the following functions:

<p>Enter Button</p> <p>Up Button</p> <p>Left Button</p> <p>Right Button</p> <p>Down Button</p>	<p>Right/ Left Buttons : Select the last or next voice.</p> <p>Up/Down Buttons : Adjust the voice playback volume.</p> <p>Enter Button : Switch to voice option menu.</p>
--	--

Operation	Display Screen
<ol style="list-style-type: none"> 1. Use Direction Buttons to select the Voice option. 2. Press Enter button to go to Voice Playback Mode. 	

Operation	Display Screen
<p>3. Use Right/Left Buttons to go to the next or last voice recording.</p> <p>4. Press Movie Shutter Button to start playing back the selected voice. Press it again to stop.</p> <p>5. Use Up/Down Buttons to adjust the volume.</p> <p>6. Press Enter button to go to the voice playback option menu.</p>	 <p>The screenshot shows a blue background with musical notes at the top. In the top left, it says '2/2'. In the center, it displays 'WAV 001' with left and right arrow icons, and '00:06:03' below it. On the left is a speaker icon. On the right is a vertical volume slider with a red triangle at the top and a speaker icon at the bottom. At the bottom, there are two options: 'Play' with a camera icon and 'Menu' with a white circle icon.</p>
<p>7. Use Up Button to select Delete option and Down Button to select Repeat option.</p>	 <p>The screenshot shows a blue background with musical notes at the top. In the top left, it says '1/2'. In the center, it displays 'WAV 001' with left and right arrow icons, and '00:06:03' below it. On the left is a speaker icon. On the right, there are three options: 'Delete' with an upward-pointing triangle, 'Repeat' with a downward-pointing triangle, and 'Exit' with a white circle icon.</p>

Operation	Display Screen
<p>8. Press Up Button once to repeat single voice; Press twice to repeat all voice recording.</p> <p>9. Press it again to disable the repeat function.</p> <p>10. The repeat icons will be different while selecting Repeat One option and Repeat All option.</p>	
<p>11. To delete a voice, use Right/Left Buttons to select the voice.</p> <p>12. Use Up Button to delete all voice recordings and Down Button to delete single voice recording.</p> <p>13. Before a voice is deleted, a confirmation screen will appear; choosing "Yes" will execute the operation, "No" will cancel the operation.</p> <p>14. Press Enter button to exit.</p>	

Section 5

Listening to MP3 Music

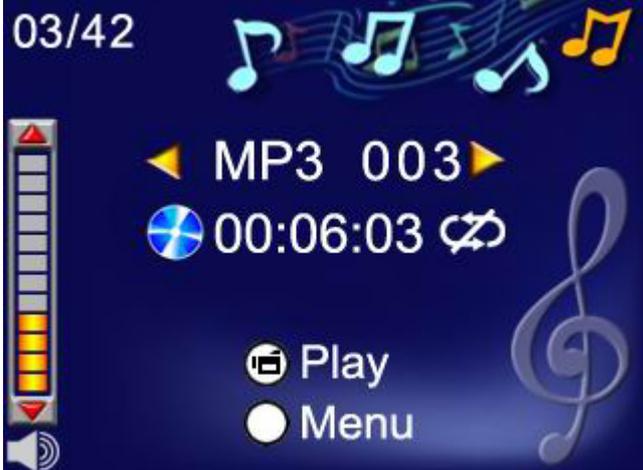
◆MP3 Music

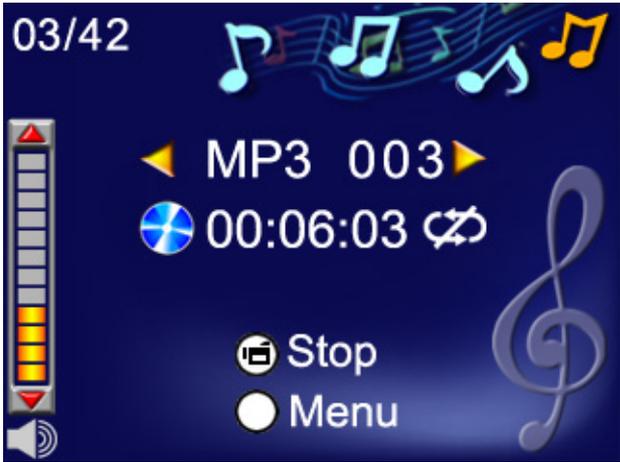
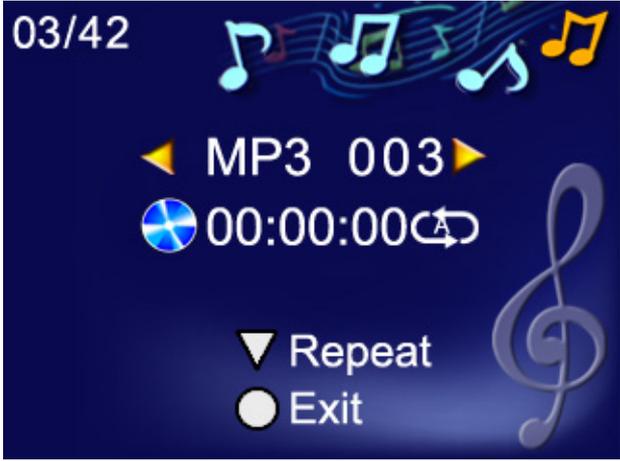
MP3 is a compressed audio file format. The MP3 music can be downloaded from some MP3 web sites.

◆Transfer MP3 Music to the camera

1. Install the camera driver on your computer.
2. Connect your camera to the computer USB port.
3. The RED LED will light when the camera is connected to the computer and in Mass Storage Mode.
4. Transfer MP3 music to My Computer\Removable Disk\MP3.
5. Once all the music is transferred, disconnect the USB cable from the PC.

◆ Listen to MP3 Music

Operation	Display Screen
<p>1. In Playback Mode, use Direction Buttons to select the Music option</p>	
<p>2. Use Right/Left Buttons to select MP3 you want to play.</p>	

Operation	Display Screen
<p>3. Press Movie Shutter Button to play MP3</p> <p>4. Press Movie Shutter Button again to stop playing.</p> <p>5. Press Up/Down Buttons to adjust volume.</p>	
<p>6. Press Enter button to go to repeat menu.</p> <p>7. Press Down Button once to repeat current MP3 (↺).</p> <p>8. Press Down Button twice to repeat all MP3 (↻).</p> <p>9. Press Enter button to exit.</p>	

◆ Listen to MP3 Music with earphone

MP3 stored in the camera can be played either by built-in speaker, Earphone, or TV.

When the earphone cable is plugged in the camera, the option menu of Earphone/TV pops out on the LCD Screen. Choose earphone or TV and press Enter button to validate the setting.



Section 6

Viewing MPEG4 Movie on PC

◆ MPEG4 Movie

MPEG4, the multimedia format and compression standards, is a cutting-edge compression technology developed by MPEG (Motion Picture Expert Group). It not only enhances the image quality but also improves the efficiency of recording capacity.

MPEG4 is adopted in this camera to take DVD-quality MPEG4 movies. The MPEG4 movie format of AVI is used in this digital video camera. When playing a MPEG4 movie for the first time, MPEG4 Video Codec Xvid should be installed in PC.

◆ View MPEG4 Movie on PC

When playing an MPEG4 movie for the first time, MPEG4 Video Codec Xvid should be installed in PC. To do this:

1. Insert the CD-ROM into the computer's CD-ROM drive. Click "Install Driver" (Install MPEG4 Video Codec Xvid) and follow the on-screen instructions to complete the installation.
2. Start video player such as Widows Media Player to view MPEG4 AVI Movies.

◆ Share MPEG4 Movie

You can share the recorded MPEG4 movies to your friends via internet or CD. Make sure MPEG4 Video Codec Xvid is installed in your friends' PC. MPEG4 Video Codec Xvid is available in the provided CD or can be downloaded from Internet.

Section 7

Viewing Pictures and Movies on a TV

You can view stored movies and pictures on a television. To connect to a television:

1. Connect one end of the AV cable to your camera's AV Out port.
2. Connect the other end of the cable to a television.
3. The option menu of Earphone/TV pops out on the LCD Screen.
4. Choose TV option and press Enter button to validate the setting.
5. The steps for viewing stored pictures and movie on a TV are exactly the same as for viewing them on the LCD monitor.



 **NOTE**

- The LCD monitor does not work when the camera is connected to a television

Section 8

Record movie clip from AV device

Your camera features a newly designed AV recorder function that can record a movie, TV program or TV news from any AV device such as a TV.

To record a movie, TV program or TV news from video device:

1. Connect AV in cable between video device and camera's AV-In Port.
2. Turn on the camera by flipping out the panel or pressing the Power Button for one second
3. Stereo/Mono AV-in menu will pop out on the screen. Use Up/Down Button to select Stereo or Mono and press Enter button to validate the setting.
4. The movie or TV program from your video source will show up on the screen.



- 5. Press Movie Shutter  Button to start recording and press again to stop
- 6. To change recording resolution, enter the Movie Mode menu and select the desired Resolution in the recording mode.

Resolution	Quality
640*480 (1.8Mbps) / 30 fps	High Quality ★★★
640*480 (1 Mbps) / 30 fps	Standard Quality ★★
320*240 (500 Kbps) / 30 fps	Low Quality ★

Display Screen	Video Resolution Option
	

- 7. Files are saved in MPEG4 Xvid format in your camera. To watch the video recorded from video device, press Rec/Play Button.

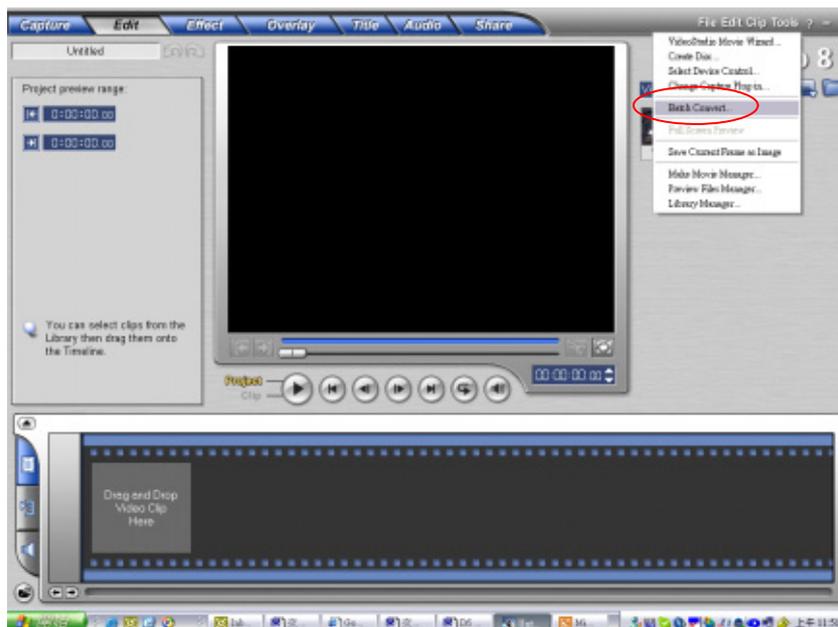
Section 9

Video File Converter

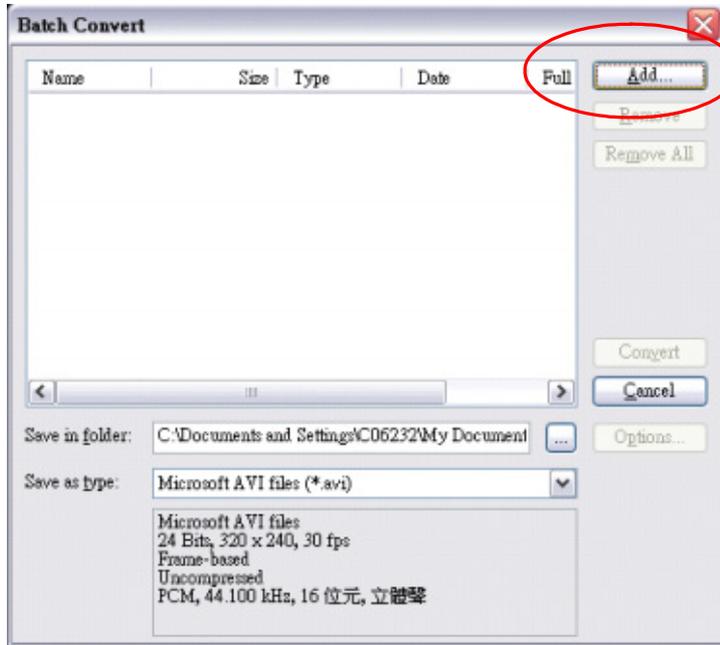
Bundled software CD contains Ulead VideoStudio that features a video file converter to convert multiple video formats into MPEG4 Xvid compatible format with your camera. In this way, you can convert any format of video files and playback your favorite movies on your camera.

To convert a video file:

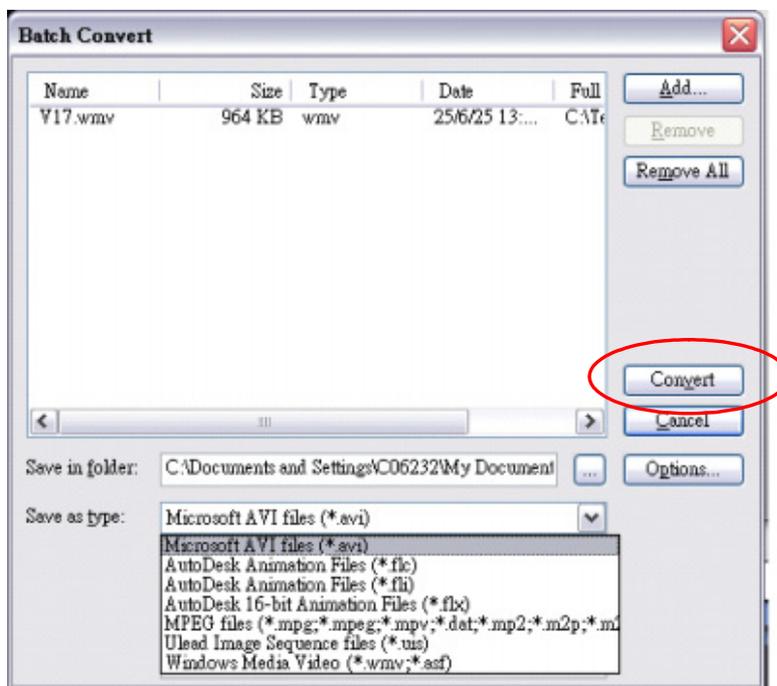
- (1) Install Ulead VideoStudio (Refer to section 11)
- (2) Click Start→ Select Programs→ Ulead VideoStudio 8.0
- (3) VideoStudio 8.0 main Screen will appear on your desktop.
- (4) Click “Tools” menu on the right side of the screen then choose “Batch Converter”.

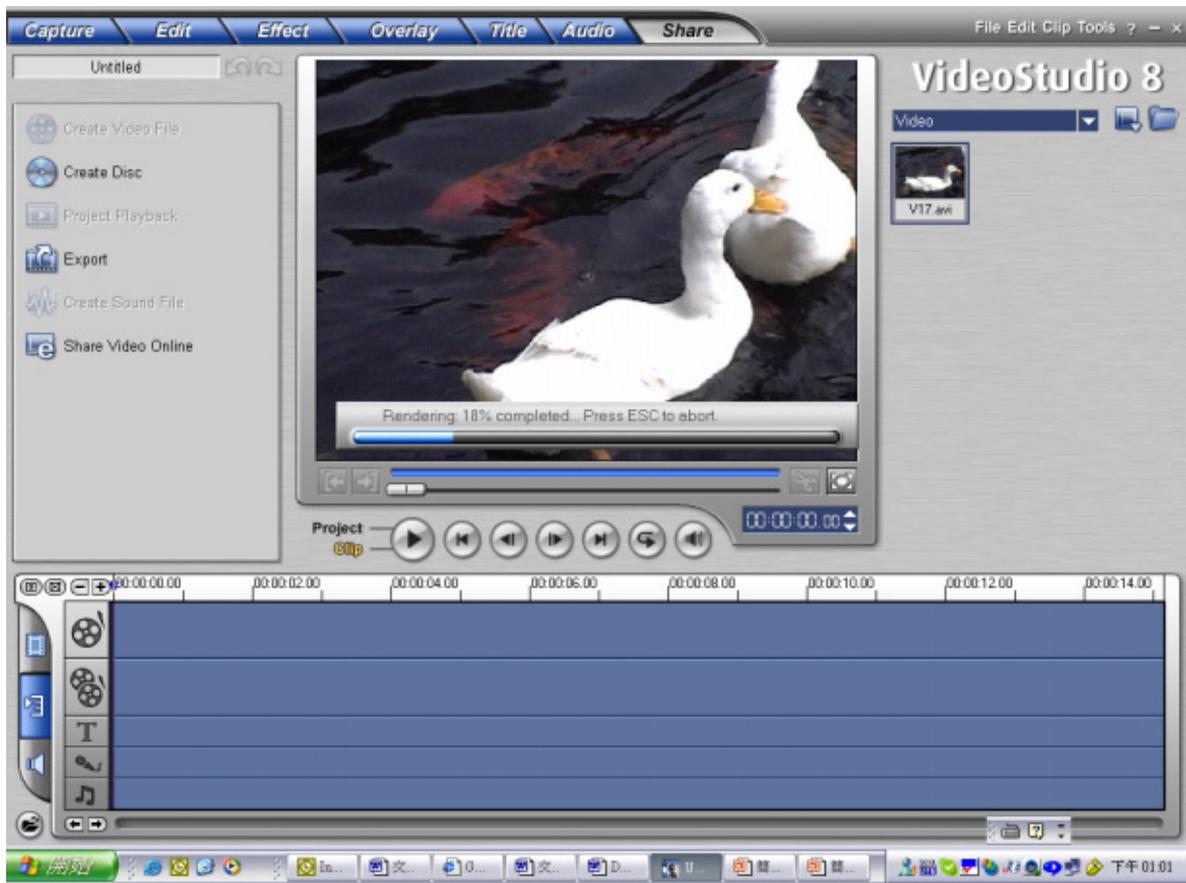


- (5) Click “Add” to add the video file you want to convert.

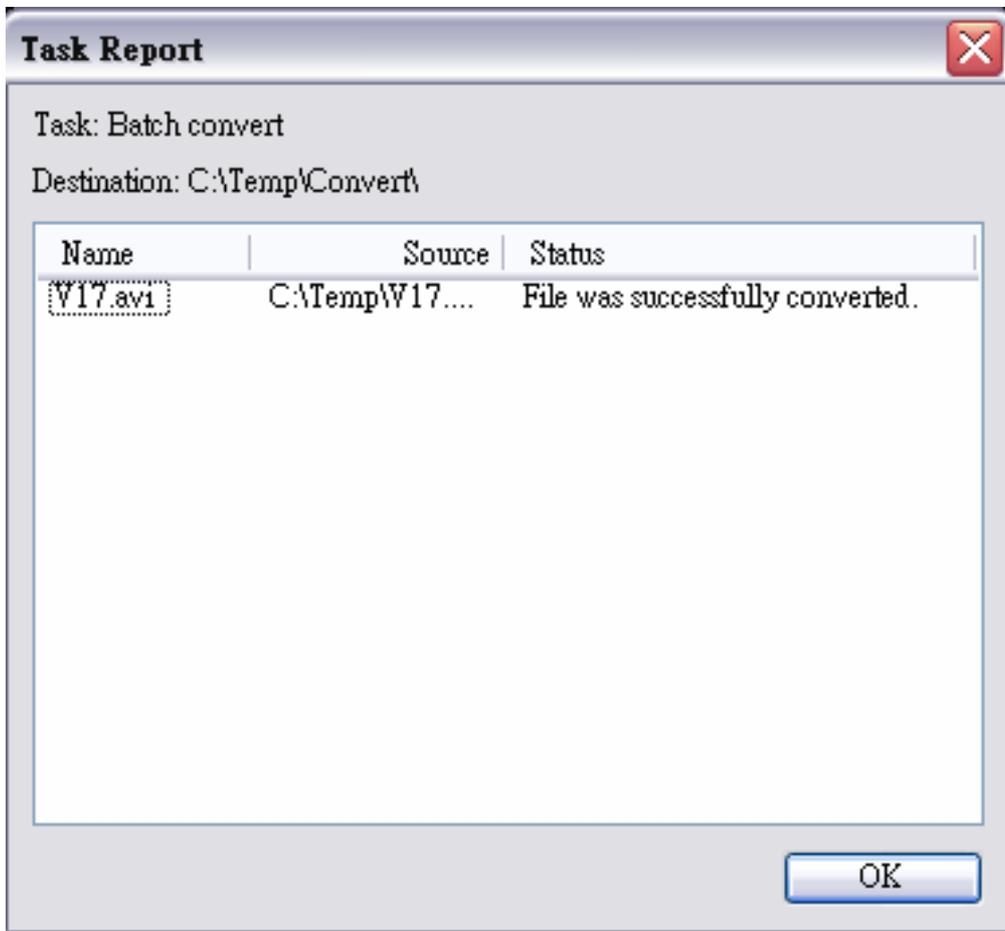


- (6) Select “Save as type” to choose output video format and click “Convert” to start file converting.





(7) Task Report window will pop out after the task is completed.



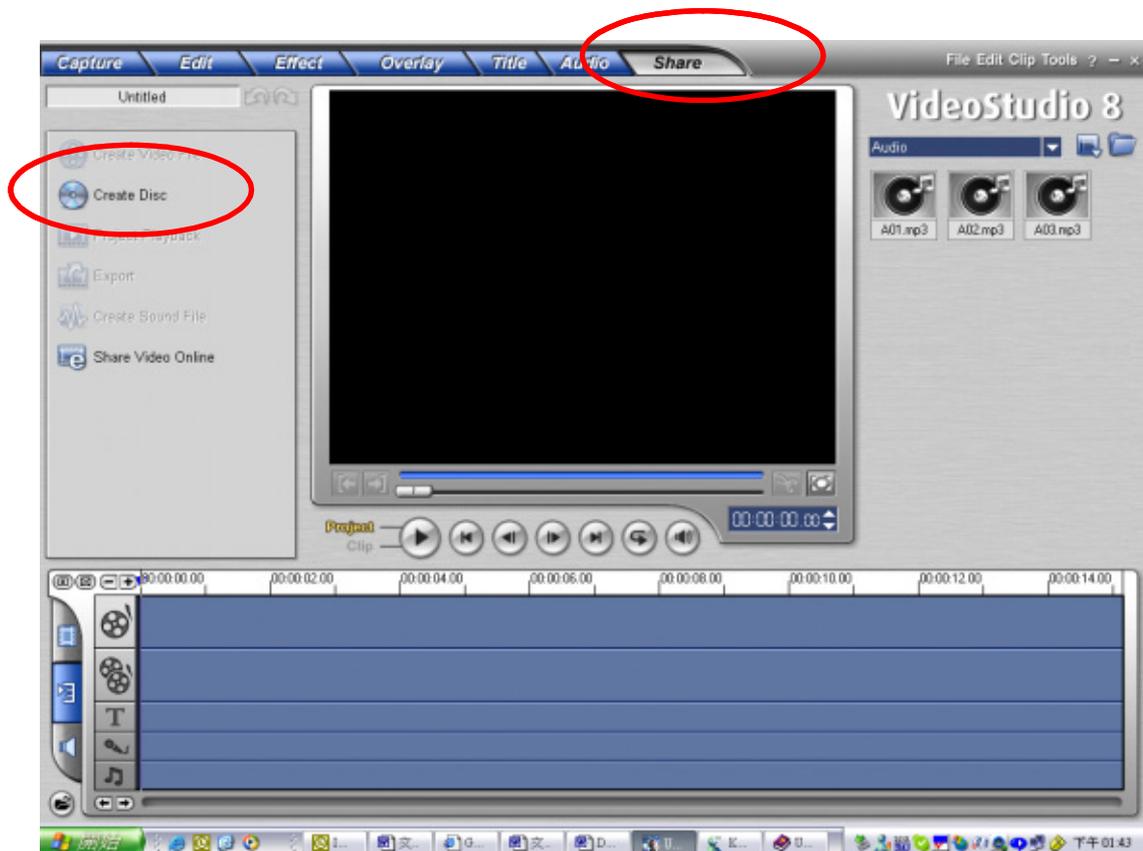
- (8) Before transferring the converted file to your camera, rename the converted file to "Clip0001.avi". (Please note: if Clip0001.avi exists in the camera, then the converted file has to be renamed to clip0002.avi)
- (9) Connect your camera to PC and transfer the converted video to "My Computer\Removable Disk\DCIM\200Movie" in your camera. (Refer to Section 10 Transferring Data to a Computer)
- (10) After transferring the converted video to the camera, press Rec/Play Button to enjoy your favorite movie.

Section 10

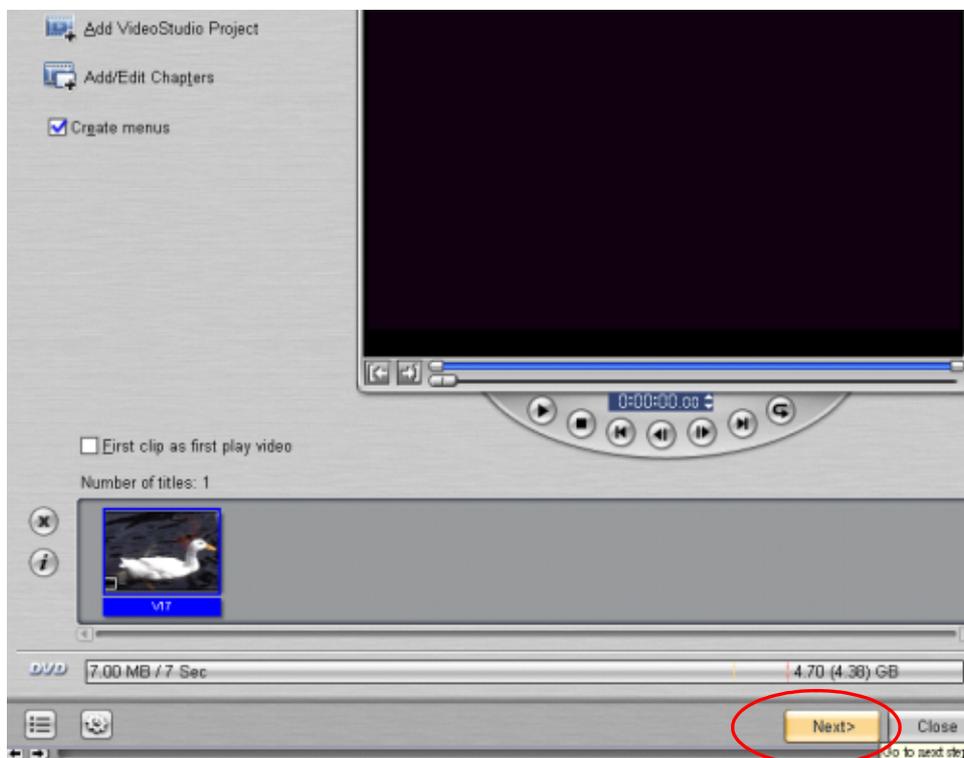
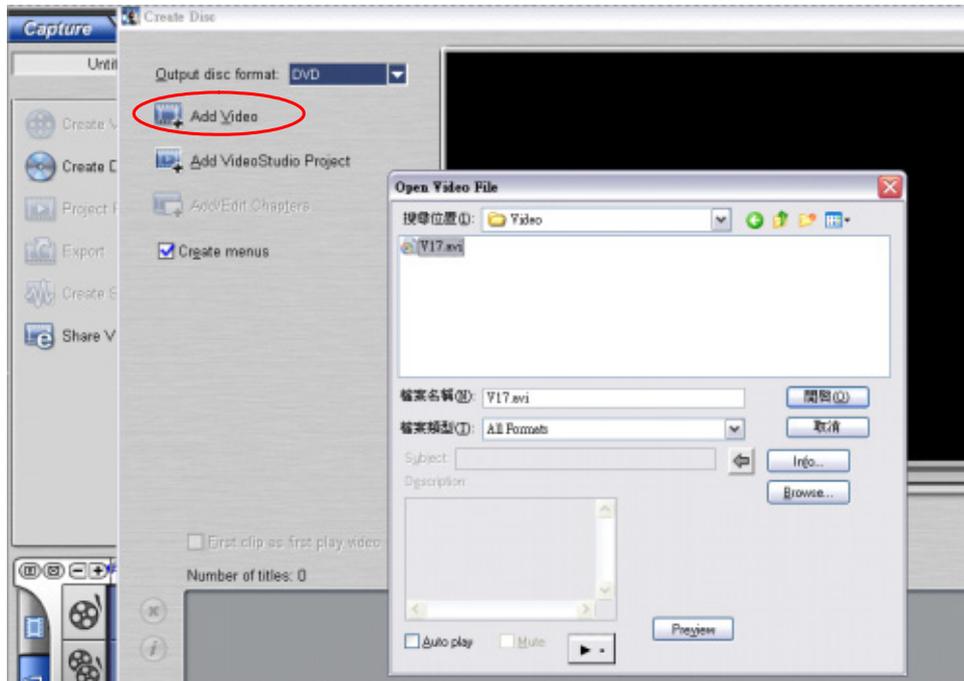
Burning the Recorded Clip into DVD

Bundled software CD contains Ulead VideoStudio 8.0 SE DVD also features burning the movie clip into DVD. You can preserve your precious movies on DVD to share with family and friends. To create a DVD:

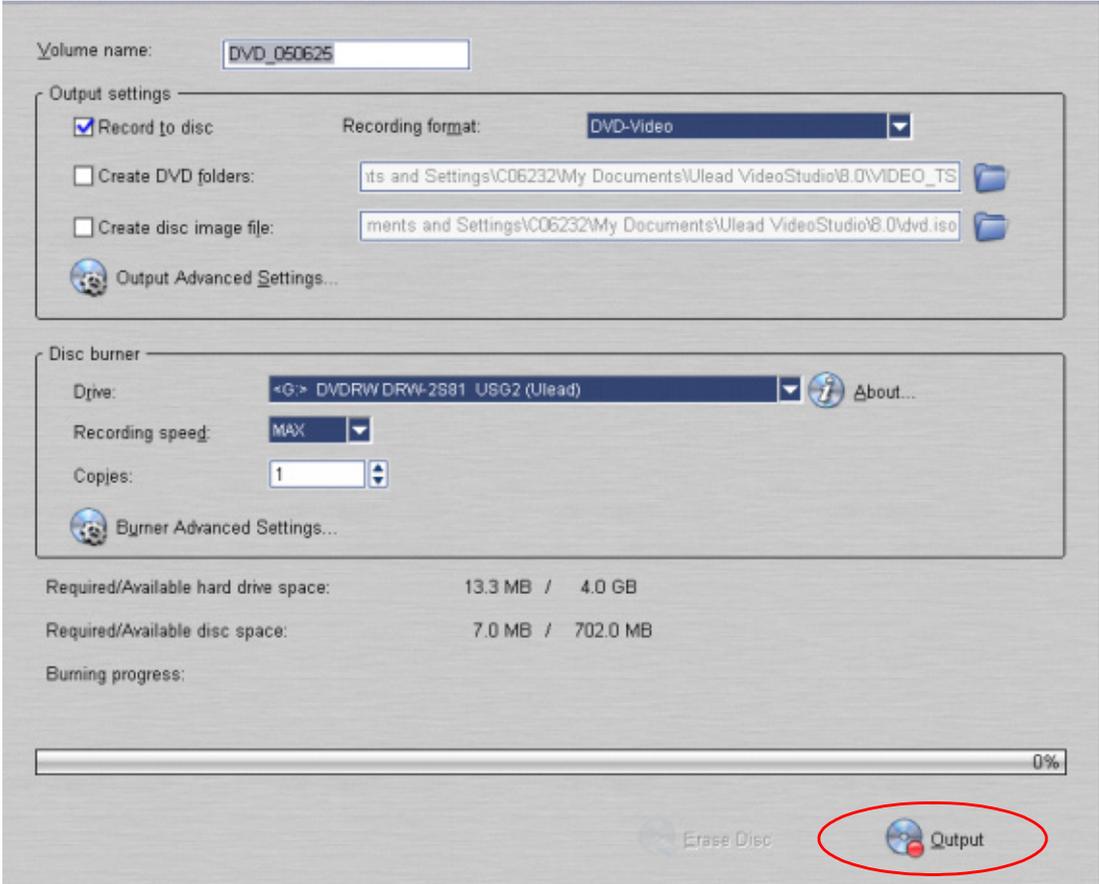
- (1) Select “Share” Option and click ” Create Disc”



- (2) “Create Disc” window pops out and click “Add Video” to add video file you want to burn into DVD. Then click “Next” button and follow on-screen instruction.



(3) Click “Output” icon () and start to burn DVD.



Section 11

Transferring Data to a Computer

◆ Installing the Digital Video Camera Driver

Before connecting this camera to a computer for the first time, you should install a driver on the computer. The driver is on the CD-ROM disc provided in the package. To install the driver:

1. Insert the CD-ROM into the computer's CD-ROM drive. The autorun screen will appear.
2. Click ""**DRIVER**"" icon. Follow the on-screen instructions to complete the installation. Depending on your operating system, you may have to restart your computer after installing the driver.

◆ Connecting Your Digital Video Camera to a Computer

You can transfer pictures, movies or voice recordings stored on your camera to a computer and send them in emails to friends or post them on websites. To do this you should:

1. Install the camera driver on your computer.
2. Connect the computer and camera with the supplied mini USB 2.0 cable.
3. Default mode is Mass Storage Mode when the camera connects to PC

4. Transfer pictures or movies or MP3 or voice recordings

◆ **Mass Storage Device Mode**

The RED LED will light up when the camera is connected to the computer. Movies, pictures and voice recordings can be found on your computer at “My Computer\Removable Disk\DCIM\”. Under this mode, you can read, delete, move, or copy any movie/picture/voice recording you want. Use the bundled Ulead application software to edit the movies or pictures.

◆ **PC Camera Mode**

When in Mass Storage Device Mode, press **REC/PLAY** Button to PC Camera Mode and the GREEN LED will light up. Under this mode, you can implement live video conference meetings or use video email over the Internet.

1. General System Requirements for Videoconferencing

To use the Digital Video Camera for videoconferencing, your computer system must include:

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

2. Make Sure to install the PC Digital Video Camera Driver

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

1. Insert the CD-ROM that came with the Digital Video Camera into your CD-ROM drive. The welcome screen appears.
2. Click "**DRIVER**". Follow the on-screen instructions to complete the installation. After the driver installation is completed, restart your computer.

3. Connecting the Digital Video Camera to Your Computer

1. Connect one end of the USB cable to an available USB port on your computer.
2. Connect the other end of the USB cable to the USB connector on the Digital Video Camera.
3. The PC Digital Video Camera Mode menu appears on the screen.
4. Position the Digital Video Camera steadily on top of your computer monitor or use a tripod.

4. Running Your Application Software (Ulead Video Studio)

1. Click Start → Select Programs → Video Studio 8.0

To capture a video from the digital video camera:

* Click the Capture  item.

* Click the [Capture Video ] button.

* Click the [Capture Image ] button.



NOTE

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- For more information about the operation of Ulead video studio application software, refer to its respective help documentation.

◆ Installing Bundled Software

The CD-ROM supplied with this camera contains four pieces of software.

- ⇒ **Ulead VideoStudio 8.0 SE DVD** is a user-friendly application that helps you read, edit and organize images.
- ⇒ **Ulead Photo Express 5.0** allows you to edit movies and is equally easy to use.
- ⇒ **Acrobat Reader** is a popular program that you need to have installed to read the User's Manual. Many computer users will find they already have this software installed on their computer.
- ⇒ **MPEG4 Video Codec Xvid**, this decode software has to be installed for correctly viewing the movies you record.

The detailed information can be found in online help of all the bundled software.

To install the bundled software:

1. Insert the CD-ROM into your computer's CD-ROM drive. The autorun screen appears.
2. Select the piece(s) of software you want to install from the list, then click **Install Application Software**. Follow the on-screen instructions to complete the installation.

◆ **Getting Started With Photo Express 5.0**

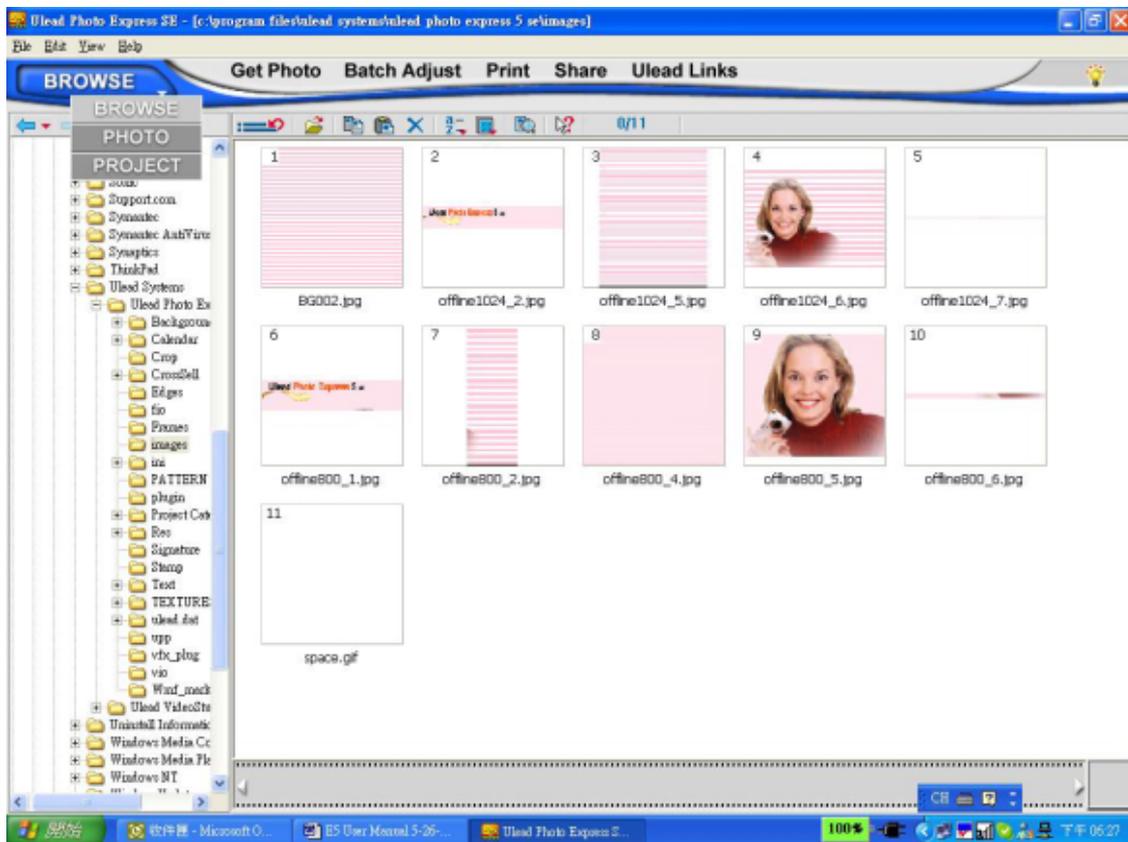
- Click Start → Select Programs → Photo Express 5.0
- Photo Express 5.0 main Screen will appear on your desktop.

Viewing Images stored in the Camera through Photo Express 5.0

To view images stored in the camera, you must switch to Mass Storage Device Mode.

1. Select the image you want to open in the workspace from the browse bar on the left hand side.

2. Double click selected picture.

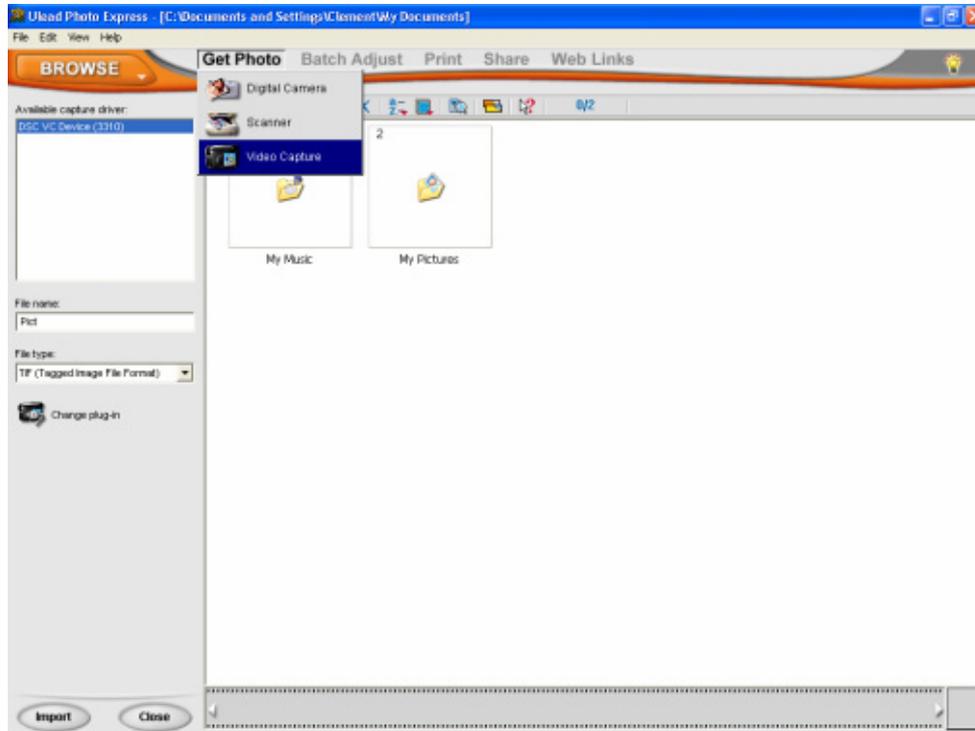


Capturing Camera Images through Photo Express 5.0

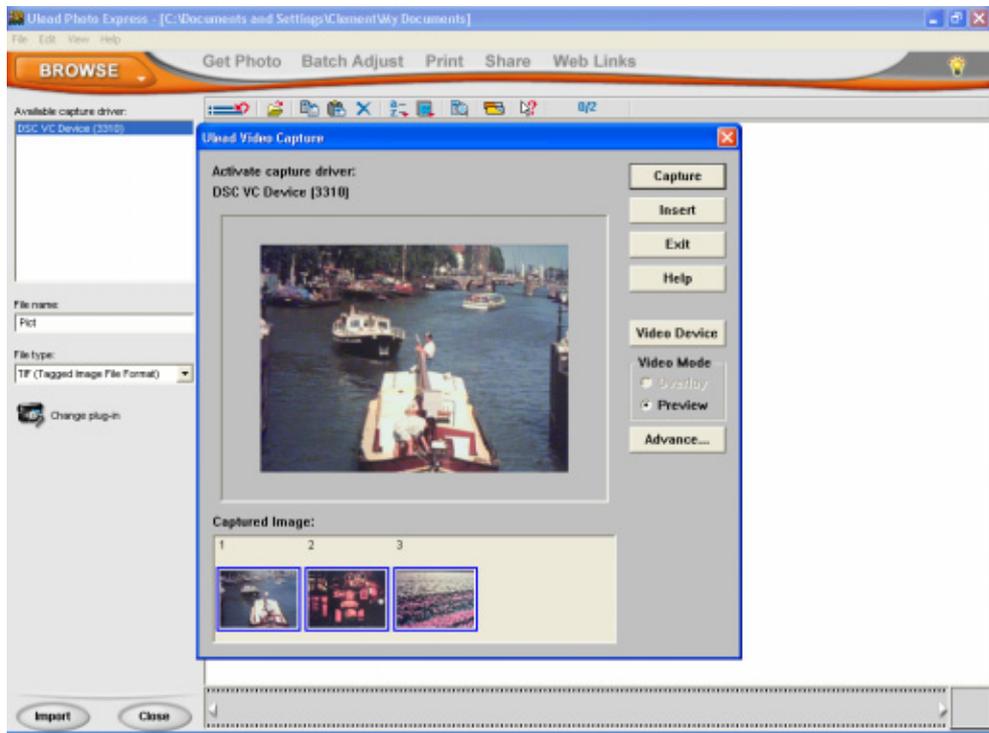
Before capturing a picture or video from the camera to the Photo Express 5.0 main screen, you must switch to PC Camera Mode. Press REC/PLAY Button to Switch to PC Camera Mode. Under this mode, you can capture videos or pictures through Photo Express 5.0:

* Click the **[Get Photo  Video Capture]** button.

- * Click the **[Import]** button.



- * Click the **[Capture]** button, and then choose your images.
- * Click the **[Insert]** button, and click **[Exit]** button to leave the screen.



◆ Getting Started With Video Studio 8.0

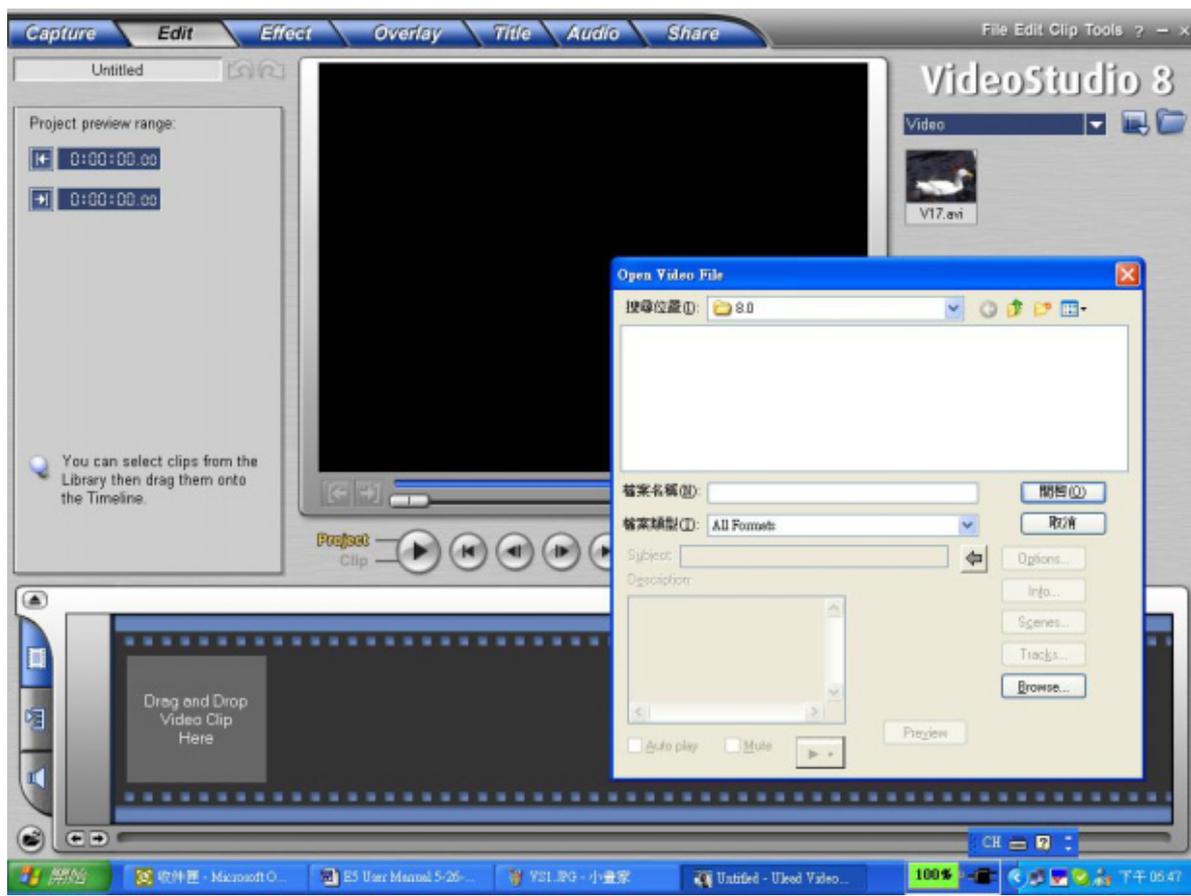
- Click Start → Select Programs → Video Studio 8.0
- The Video Studio main Screen will appear on your desktop.



Viewing Images stored in the Camera through Video Studio 8.0

To view images stored in the camera, you must switch to Mass Storage Device Mode.

1. Click the folder on the right hand side of the screen.
2. Select the image stored in the camera and press Open button to view.

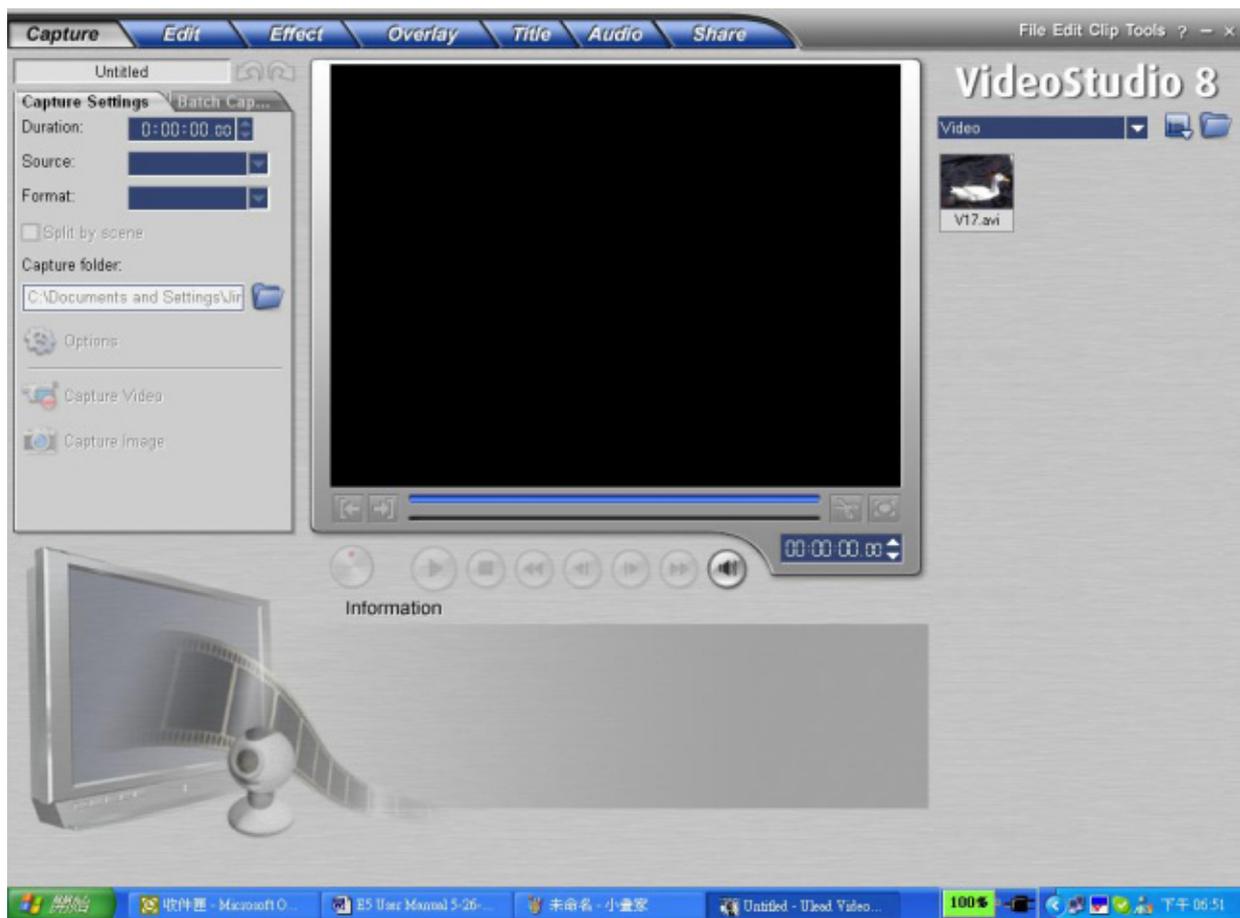


Capturing Video through Video Studio 8.0

Press REC/PLAY Button to switch to PC Camera Mode. Under this mode, you can view camera video through Video Studio:

To capture a video/picture from the camera:

- * Click the Capture  item.
- * Click the [Capture Video ] button.
- * Click the [Capture Image ] button.



Section 12

Specification and System Requirements

◆ Specification

Image Sensor	5 Mega Pixel Sensor
Operation Modes	Movie Record · Picture Record · Voice Record · MP3 Player · PC Camera · Mass Storage Device
Lens	f=8.5mm F3.0
Focus Range	140cm~infinite (Normal Mode) 70cm ~ 140cm (Portrait Mode) Center: 20 cm (Macro Mode)
Digital Zoom	8X
Shutter	Mechanical
LCD monitor	2.5" LTPS TFT LCD
Storage Media	Built-in 32M Memory; SD/MMC Card Slot Support, can be expanded up to 1GB

Image Resolution	3856x2892 ; 2592x1944 ; 1600x1200
Movie Resolution	VGA 640x480 / QVGA 320X240, 30 fps
White Balance	Auto/Manual (Daylight, Fluorescent, Tungsten)
Exposure	Auto/Manual
Self-Timer	10 second delay
Flash	Auto/Off/On
File Format	Picture : JPEG Movie : AVI (Xvid) Voice : WAV Music: MP3
Image play	Single Image/Thumbnails/Slideshow
PC Interface	Mini USB 2.0 Port
TV out	NTSC/PAL Selectable
Battery	NP 60 Rechargeable Li-ion Battery
Dimension	108mm×69mm×31mm
Weight	154 g (without battery)

* Design and specifications are subject to change without notice.

◆ System Requirement

Windows 98SE/2000/ME/XP

Pentium MMX 、 Celeron or AMD Athlon® CPU

64MB RAM

CD ROM

500MB free HDD space

Available USB port

16-bit Color Display

Troubleshooting

Refer to the symptoms and measures listed below before sending the digital video camera for repairs. If the problem persists, contact your local reseller or service center.

Power Supply

Symptom	Cause	Measure
The power does not come on.	The battery is not loaded.	Load the battery correctly.
	The battery is exhausted.	Recharge or use the AC power adapter.
	The AC power adaptor is not connected correctly.	Reconnect it properly.

Symptom	Cause	Measure
The power cuts out during use.	The digital video camera was left unattended and unused, so the auto powers off cuts it off.	Turn the power back on.
	The battery is exhausted.	Recharge or use the AC power adapter.
The power does not go off.	Digital video camera malfunction.	Reload the battery. If using the AC power adapter, reconnect it.
The battery runs out quickly.	It is being used in extreme low temperature.	/
	Many images are being captured in dark places inside, requiring flash.	/
	The battery is not fully charged. The battery is not used for an extended period of time after charged.	Fully charge the battery and discharge it for at least one complete cycle before use to maximize its performance and lifetime.
The battery or digital video camera feels warm.	Long period of continuous use of the digital video camera or the flash.	

Shooting

Symptom	Cause	Measure
Even if I press the shutter button, the digital video camera does not shoot.	The battery is running low.	Recharge or use the AC power adapter.
	The power is not on.	Turn the power on.
	The digital video camera is not in shooting mode.	Slide the mode switch to shooting mode.
	The shutter button is not pressed all the way.	Press the shutter button all the way.
	The internal memory or memory card does not have any free space.	Load a new memory card, or delete unwanted files.
	End of memory card life.	Load a new memory card.
	The flash is recharging.	Wait until the system LED off.
	The memory card is unrecognized by the digital video camera.	Format the memory card in this digital video camera before its first use or when it was used other than this digital video camera.
Images do not appear on the LCD monitor.	The auto power off function is activated.	Turn the power on again.
	The power is not on.	Turn the power on.
	The LCD monitor is dark.	Adjust the brightness of the LCD monitor in the SYSTEM MENU.

Symptom	Cause	Measure
Although it is set to Auto Focus, it does not focus.	The lens or Self-timer LED is dirty.	Wipe clean with a soft, dry cloth or lens paper.
	The distance to the subject is smaller than the effective range.	Get your subject within the effective focus range.
The flash does not fire. The flash cannot recharge.	The flash is set to flash off.	Set the flash to something other than flash off mode.

Symptom	Cause	Measure
Even though the flash fired, the image is dark.	The distance to the subject is greater than flash effective range.	Get closer to your subject and capture.
The image is too dark.	The image was captured in a dark place while set to flash off.	Set the flash to something other than flash off mode.
	It is under-exposed.	Set the exposure compensation to a larger value.
The image is too bright.	It is over-exposed.	Set the exposure compensation to a smaller value.
The image lacks natural color.	The image was captured in conditions that are hard for Auto White Balance to adjust to.	Add a white object to the composition.

Playback

Symptom	Cause	Measure
Cannot playback.	It is not set to playback mode.	Slide the mode switch to playback mode.
The contents of memory card cannot be replayed.	You played back a memory card that was not formatted by this device.	Loaded a card that was formatted and stored on by this device.
Files cannot be deleted.	The file is protected.	Cancel protection.
	You played back a memory card that was not formatted by this device.	Loaded a card that was formatted and stored on by this device.
Cannot format a memory card.	The memory card is write-protected.	Remove the write-protection.
	End of memory card life.	Load a new memory card.
The playback image is dark though I used the flash.	The LCD monitor is too dark.	Adjust the brightness of LCD monitor in the SYSTEM MENU.

Other Problems

Symptom	Cause	Measure
Cannot load the memory card.	The card is facing the wrong way.	Load correctly.
Even when the digital video camera's buttons are pressed, it does	The battery is running low.	Recharge or use the AC power adapter.
	Digital video camera malfunction.	Turn the power off and remove the

not operate.		battery once, and try again.
The date and time is wrong.	The correct date and time is not set.	Set the correct date and time.
The date set has disappeared.	The battery is removed with the power still on.	Set the date and time again.

About connecting to your computer/software

Symptom	Cause	Measure
Cannot download files.	The free space on the hard disk drive of your computer may be insufficient.	Check whether the hard disk drive has enough space for running Windows, and if the drive for loading files has a capacity at least that of the memory card inserted in the digital video camera.
	No power supply.	Recharge the battery or use the AC power adapter or turn the power on.
	The USB driver is not installed (for Windows 98/98SE).	Install USB driver.