
WEEE Warning Message

Symbol for Separate Collection in European Countries

This symbol indicates that this product is to be collected separately.

The following apply only to users in European countries:

- This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.



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 very often vary between retailers especially with accessories such as batteries, 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

SAFETY INSTRUCTIONS

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

Warnings

- | | |
|---|---|
| <p>■ If foreign objects or water have entered the camera, turn the power OFF and remove the batteries.</p> <p>Continued use in this state might cause fire or electric shock. Consult the store of purchase.</p> |  |
| <p>■ If the camera has fallen or its case has been damaged, turn the power OFF and remove the batteries.</p> <p>Continued use in this state might cause fire or electric shock. Consult the</p> |  |
-

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.



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

Ao utilizar as baterias, leia cuidadosamente e observe atentamente as **Instruções de segurança** e as notas descritas abaixo:

- Use somente as baterias especificadas (AA).
- Evite usar as baterias em ambientes extremamente frios, pois as baixas temperaturas podem diminuir a vida das baterias e reduzir a performance da câmera.
- As baterias poderão esquentar durante a utilização da câmera por um longo período ou do flash de forma contínua. Isso é normal e não caracteriza mau funcionamento.
- A câmera poderá esquentar durante a utilização contínua ou por um longo período. Isso é normal e não caracteriza mau funcionamento.
- Se não for utilizar as baterias por um longo período, retire-as da câmera para evitar vazamento ou corrosão.
- Se a bateria não for utilizada por um longo período, guarde-a após estar descarregada. Se a bateria for guardada com carga por um longo período, sua performance pode ser comprometida.
- Mantenha os terminais sempre limpos.
- Jamais utilize baterias de manganês.
- Haverá risco de explosão caso as baterias sejam substituídas por um tipo incorreto.
- Descarte as baterias de acordo com as instruções.

CONTENTS

GETTING TO KNOW YOUR CAMERA	8
OVERVIEW	8
STANDARD ACCESSORIES	8
FRONT VIEW	9
KEYPAD ILLUSTRATION	9
SIDE VIEW	10
GETTING UP AND RUNNING	11
LOADING THE BATTERY	11
INSERTING AND REMOVING AN SD CARD	11
PROTECTING DATA ON AN SD CARD	11
TURNING THE CAMERA ON AND GETTING STARTED	12
TURNING THE CAMERA OFF	12
RECORD MODE	13
BUTTON FUNCTION	13
LCD MONITOR INFORMATION	14
MPEG4 MOVIE RECORDING	15
PICTURE RECORDING	16
VOICE RECORDING	16
TAKING CLOSE UP PICTURES	16
USING DIGITAL ZOOM	16
OPTIONS FOR RECORD MODE	18
OPERATIONS FOR RECORD MODE	18
DEFAULT SETTING AND VALIDATION	19
MOVIE MODE SETTING	19
Movie Resolution	19
Possible recording time / sec (video clip)	20
Exposure	20
Sharpness	21
White Balance	21
Motion Stabilization	22
Motion Detection	23
CAMERA MODE SETTING	24
Picture Resolution	24
Possible number of shots (still image)	24

Exposure	24
Two in One (Camera Mode Only)	25
Photo Frame (Camera Mode Only)	26
Flash (Camera Mode Only)	27
Self-timer (Camera Mode Only)	27
Sharpness	28
White Balance	28
Multi-Snap (Camera Mode Only)	29
Backlight (Camera Mode Only)	30
Date Printing (Camera Mode Only)	30
VOICE MODE	31
EFFECT SETTING	31
SETTING MENU	32
Sound	32
Start-up Screen	32
Time Setting	33
Format Card	34
TV System	34
Selecting Interface Language	35
Default Setting	35
PLAYBACK MODE	36
BUTTON FUNCTIONS	36
LCD Monitor Information	37
MOVIE PLAYBACK	38
Delete Movies	39
Thumbnail Function	40
Lock Movies	40
Repeat Movies	41
PICTURE PLAYBACK	42
Delete Picture	43
Thumbnail Function	43
Lock Pictures	44
Make Slide Show	45
VOICE PLAYBACK	46
Direction Buttons Function	46
LISTENING TO MP3 MUSIC	48
MP3 MUSIC	48

TRANSFER MP3 MUSIC TO THE CAMERA	48
LISTEN TO MP3 MUSIC	48
Listen to MP3 Music with earphone	50
READING EBOOK	51
EBOOK	51
TRANSFER EBOOKS TO THE CAMERA	51
READ EBOOKS	51
VIEWING MPEG4 MOVIE ON PC	53
MPEG4 MOVIE	53
VIEW MPEG4 MOVIE ON PC	53
SHARE MPEG4 MOVIE	53
VIEWING PICTURES AND MOVIES ON A TV	54
VIDEO FILE CONVERTER	55
BURNING THE RECORDED CLIP INTO DVD	59
TRANSFERRING DATA TO A COMPUTER	61
INSTALLING THE DIGITAL CAMERA DRIVER	61
CONNECTING YOUR CAMERA TO A COMPUTER	61
Mass Storage Device Mode	61
Web Camera Mode	61
INSTALLING BUNDLED SOFTWARE	62
SPECIFICATIONS AND SYSTEM REQUIREMENTS	63
SPECIFICATION	63
SYSTEM REQUIREMENT	64
TROUBLESHOOTING	64

Getting to Know Your Camera

Overview

This camera with a 5.0 Mega Pixel sensor can take DVD-Quality MPEG-4 movies. Using MPEG-4 technology, more videos can be taken using less memory. High quality images up to 11 mega-pixels can be taken smoothly. With the color LCD monitor, you can compose images and examine them easily.

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

The built-in 64 MB memory allows you to take pictures and movies without a memory card. But you can use a memory card to increase the storage capacity up to 2GB.



NOTE

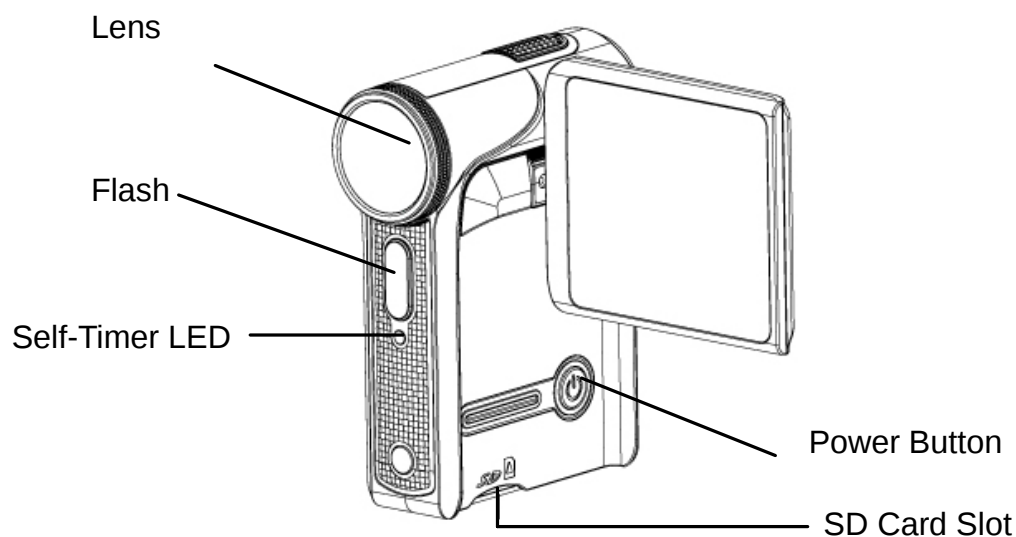
- Partial memory of the built-in 64MB memory is used for Firmware code.

Standard Accessories

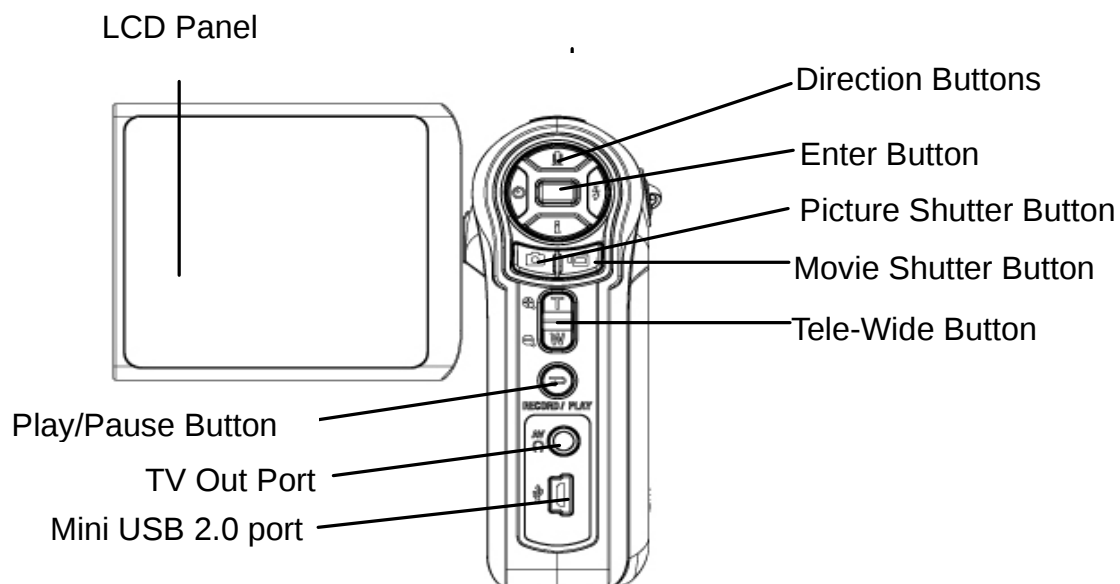
Unpack the package and make sure all standard accessories listed are included:

- ☐ Digital Video Camera
- ☐ USB Cable
- ☐ AV out Cable
- ☐ CD-ROM (Driver, Arcsoft Software and User Manual)
- ☐ Quick Guide
- ☐ 2 x "AA" Alkaline batteries
- ☐ Earphone
- ☐ Pouch
- ☐ Strap

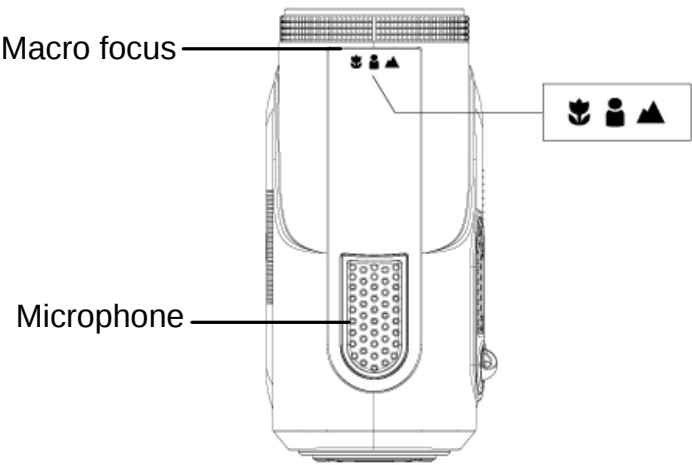
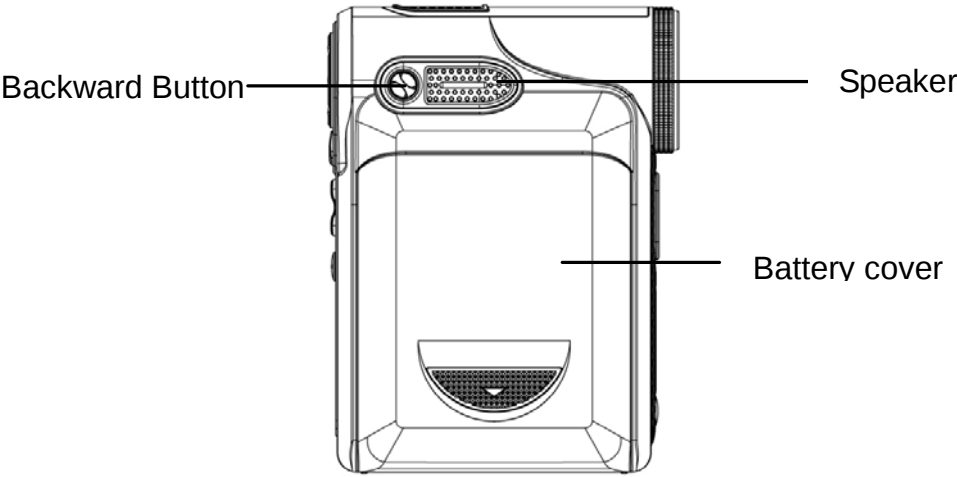
Front View



Keypad illustration



Side View

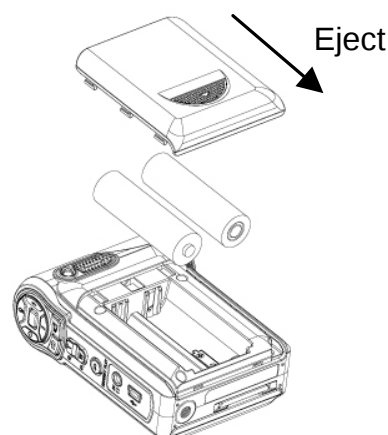


Getting Up and Running

Loading the Battery

Before using the camera, you must load two AA (Alkaline) batteries.

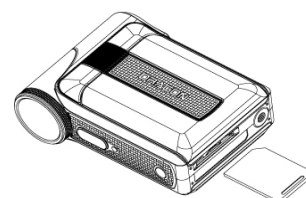
1. Follow the arrow direction and slide to reject the battery cover.
2. Insert the batteries according to the correct polarity marks (+ or -)
3. Close the battery cover firmly.



Inserting and Removing an SD Card

The camera comes with internal 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 2GB. To insert a memory card, refer to the figure as below:

1. Insert the memory card into the right position.
2. To remove an installed SD card, press the card inwards to release it.
3. When the card pops out, gently remove it from its slot.

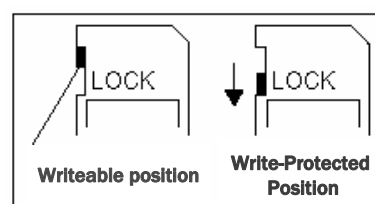


NOTE

- When a memory card is fitted, movies and pictures are saved on 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 Camera On and Getting Started

To turn on the camera:

1. Flip out the LCD panel; the camera will turn on automatically.
2. Or press Power Button for one second to turn it on.

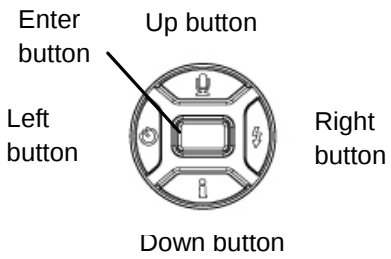
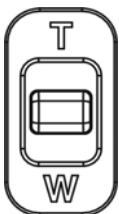
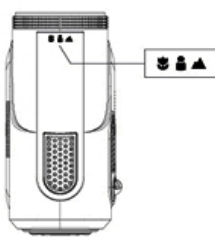
- ☐ To take a movie, press the Movie Shutter Button ().
- ☐ To take a picture, press the Picture Shutter Button ().
- ☐ To record the voice, press the Upper Button of Direction Buttons and press the Movie Shutter Button () to start voice recording.
- ☐ To view stored movies, pictures or listen to stored MP3 and voice recordings, press the RECORD/PLAY Button once to switch to Playback Mode. Press a second time to return to Record Mode.

Turning the Camera Off

To turn off the Camera, you can either press the Power Button for one second, or you can place the LCD panel back to its original position.

Record Mode

Button Function

 Enter button Up button Left button Right button Down button	Right Button : Flash AUTO/OFF Left Button : Self-Timer ON/OFF Up Button : Voice Recording Mode Down Button: LCD Information ON/OFF Enter Button : Menu ON
	Power Button: Press down for one second to turn on or turn off the camera.
	RECORD/PLAY Button functions: 1. Switch between Record /Playback Mode. 2. Return to the previous page.
	Tele-Wide Button: Digital Zoom in and out.
	Movie Shutter Button: 1. Start to take movie, or record voice. 2. To stop recording, press it again.
	Picture Shutter Button: Start to take picture
	Macro switch: Switch between Macro Mode, Portrait Mode, and Normal Mode.

LCD Monitor Information

The indicators below 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
(2)	Resolution	
	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 empty	
(8)		Auto Flash
		Flash Off
(9)		Self-timer enabled
(10)	8X digital zoom	
(11)	Date: YYYY/MM/DD	
	Time:	HH:MM:SEC
(12)		Motion Detection

MPEG4 Movie Recording

Press Movie Shutter button () to start recording. When a movie is recording, a time indicator will display on the LCD monitor. To stop recording, press Movie Shutter Button () again. Press RECORD/PLAY Button to view the recorded movie.

Three resolution settings are available:

Quality
High Quality★★★
Standard Quality★★
Low Quality ★

Picture Recording

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

Press RECORD/PLAY Button to view the picture.

Three resolution settings are available:

Quality
High Quality★★★
Standard Quality★★
Low Quality ★

Voice Recording

Press Upper Button () of Direction Buttons to switch to Voice Record Mode.

Press Movie Shutter Button () to record voice.

Press Movie Shutter Button () again to stop.

Press RECORD/PLAY Button to view the recorded voice.



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 an object at about 20 cm, while the Portrait Mode () should be used for an object 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 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, when recording movies or taking pictures.

To zoom in/out, press the Tele/Wide Button.

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	Effect	Set
- Resolution - Exposure - Sharpness - White Balance - Stabilization - Motion Detect - Exit	- Resolution - Exposure - Two in One - Photo Frame - Flash - Self-timer - Sharpness - White Balance - Multi-snap - Backlight - Date printing - Exit	- Enter - Exit	- Normal - B/W - Classic - Negative - Exit	- Sound - Start-up Screen - Time Setting - Format Memory - TV System - Language - Default Setting - Exit

Operations for Record Mode

Operation	Screen
1. Press Enter Button when in Movie/Picture Record Mode.	
2. Use Right/Left Buttons to move between main menu options, which are Movie Mode, Camera Mode, Voice Mode, Effect, and Set. Submenu will pop out when you move to each main option. 3. Press Enter Button to validate sub option you select. 4. Select Exit option to exit submenu.	 Enter Button 

Default Setting and Validation

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

Always: The settings always keep valid.

One Time: The setting is only valid once or till camera power is off.

	Validation	Default Factory Setting
Resolution	Always	High for Movie Standard for Picture
Exposure	One Time	0EV
Sharpness	One Time	Level 5
White Balance	One Time	Auto
Motion Stabilization	Always	Off
Motion Detect	One Time	Off
Two in One	One Time	Off
Photo Frame	One Time	Off
Flash	Always	Off
Self-Timer	One Time	Off
Multi-Snap	One Time	Off
Backlight Mode	One Time	Off
Date Printing	Always	Off
Effect	One Time	Normal
Sound	Always	On
Format Card	One Time	Off
TV System	Always	Depends on shipping area
Language	Always	Depends on shipping area
Volume	Always	Level 6

Movie Mode Setting

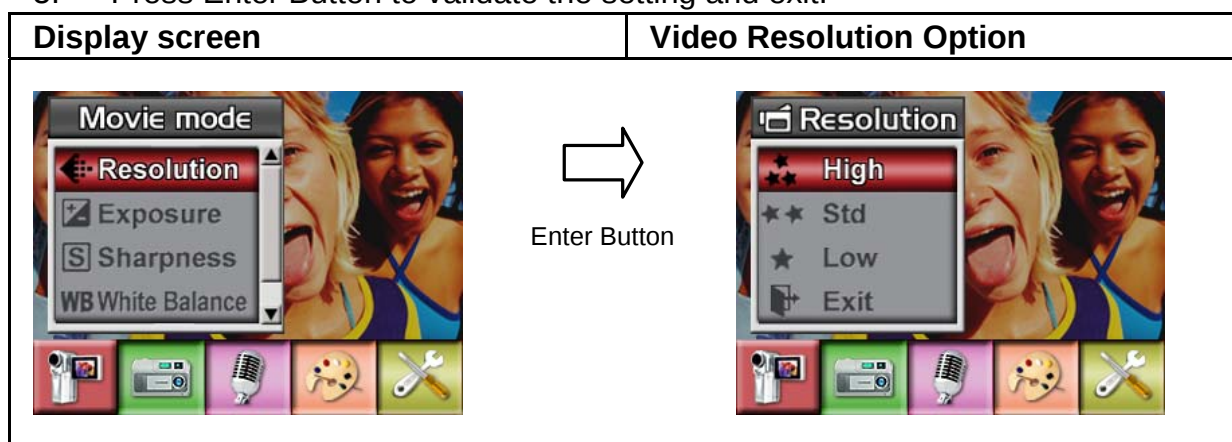
Record main menu includes camera setting and other advanced settings. You can use Right/Left Buttons to move between the options and press Enter to validate the setting.

Movie Resolution

To change Movie Resolution:

1. In Movie/Picture Record Mode, press Enter Button to switch to record menu screen.
2. Use Right/Left Buttons to select Movie Mode. Submenu of Movie Mode will pop out on the screen.
3. Use Up/Down Buttons to select Resolution then press Enter Button 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.



Possible recording time / sec (video clip)

Resolution	Quality	64 MB internal memory	128MB	256MB	512MB	1GB	2GB
640*480 (1.8Mbps) / 30 fps	High	00:01:15	00:04:37	00:09:13	00:18:28	00:36:57	01:10:40
640*480 (1Mbps) / 30 fps	Standard	00:02:30	00:09:06	00:18:12	00:36:42	01:13:55	02:15:35
320x240 (500 Kbps) / 30 fps	Low	00:09:10	00:33:52	01:07:44	02:15:28	04:31:03	09:00:15

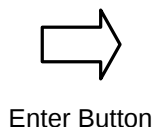
Exposure

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 select Movie Mode. Submenu of Movie Mode will pop out on the screen.
3. Use Up/Down Buttons to move to Exposure Option. Press the Enter Button and then Exposure Submenu will pop out on the screen.
4. Use Up/Down Buttons to choose preferred EV value. The change can be previewed immediately.
5. Press Enter Button to validate the setting and exit.

Display screen	Exposure Option
	



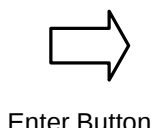
Sharpness

You can soften and sharpen images to achieve different effects.

To change Sharpness setting:

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

Display screen	Sharpness Option
	



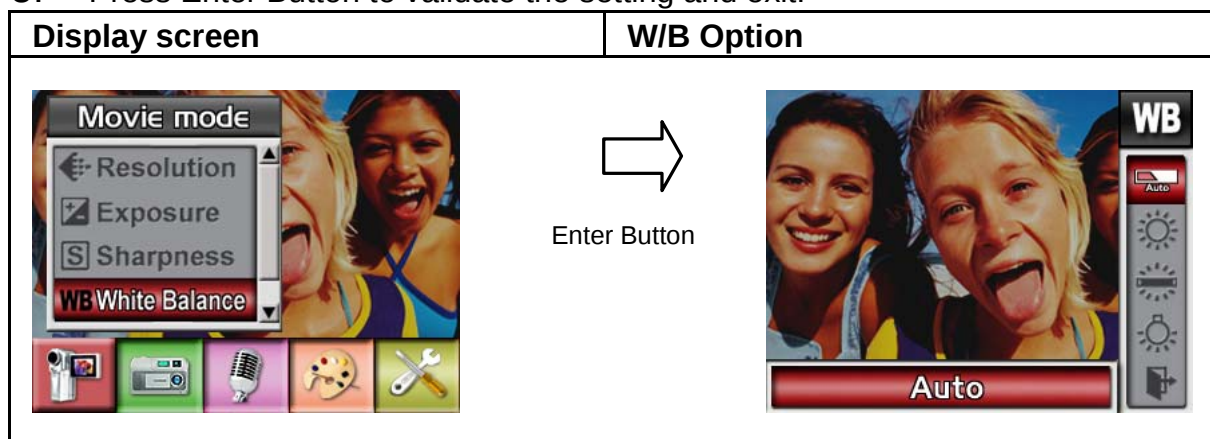
White Balance

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:

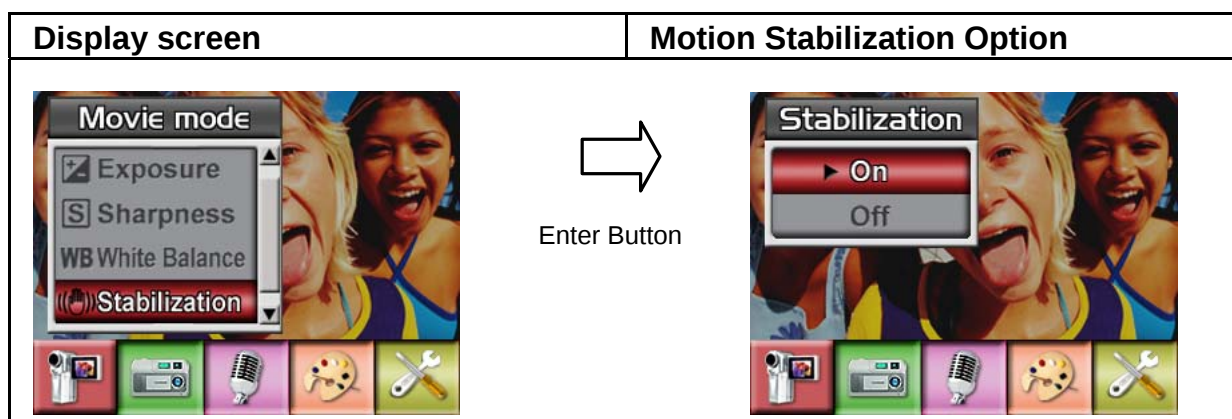
1. In Movie/Picture Record Mode, press Enter Button to switch to record menu screen.
2. Use Right/Left Buttons to select Movie Mode. Submenu of Movie Mode will pop out on the screen.
3. Use Up/Down Buttons to select White Balance, then press Enter Button to switch to White Balance submenu.
4. Use Up/Down Buttons to move between four settings. The change can be previewed immediately.
5. 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.
2. Use Right/Left Buttons to select Movie Mode. Submenu of Movie Mode will pop out on the screen.
3. Use Up/Down Buttons to select Motion Stabilization then press Enter Button to switch to Motion Stabilization submenu.
4. Use Up/Down Buttons to choose ON or OFF.
5. Press Enter Button to validate the setting and exit.





NOTE

- The captured screen will be smaller when motion stabilization is enabled
- Digital Zoom is disabled when motion stabilization is activated.

Motion Detection

To enable Motion Detection:

1. In Movie/Picture Record Mode, press Enter Button to switch to record menu screen.
2. Use Right/Left Buttons to select Movie Mode. Submenu of Movie Mode will pop out on the screen.
3. Use Up/Down Buttons to select Motion Detect then press Enter Buttons to switch to Motion Detect submenu.
4. Use Up/Down Buttons to choose ON or OFF.
5. Press Enter Button to validate the setting and exit.
6. Camera will start to record video once if there is a movement for 3 consecutive seconds. Stop recording if there is no movement for 3 seconds.

Display screen	Motion Detect Option
	

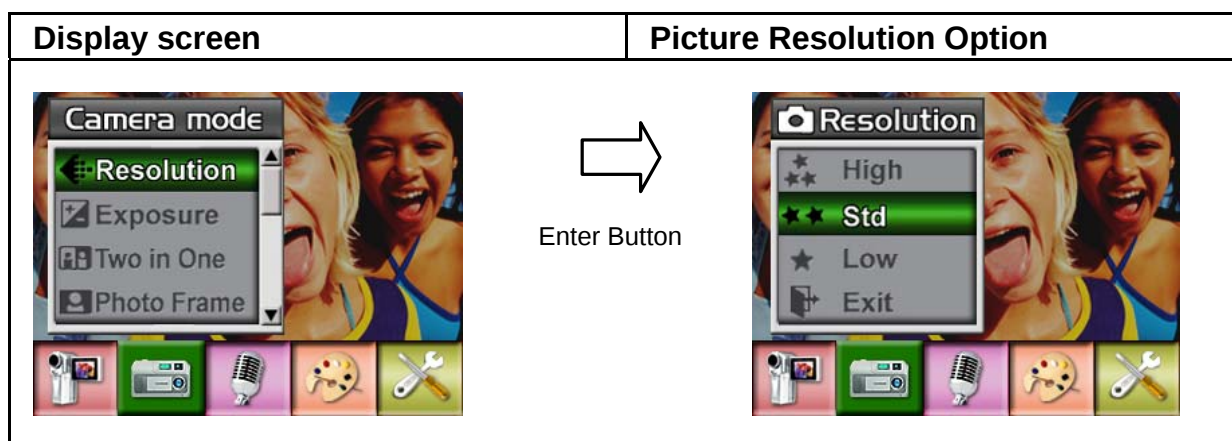
Enter Button

Camera Mode Setting

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 Button 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.



Possible number of shots (still image)

Quality	Resolution	64 MB internal memory	128 MB	256MB	512MB	1GB	2GB
High	3856 x 2892	12	44	88	170	340	680
Standard	2592 x 1944	23	76	156	312	624	1240
Low	1600 x 1200	60	200	400	800	1600	3200

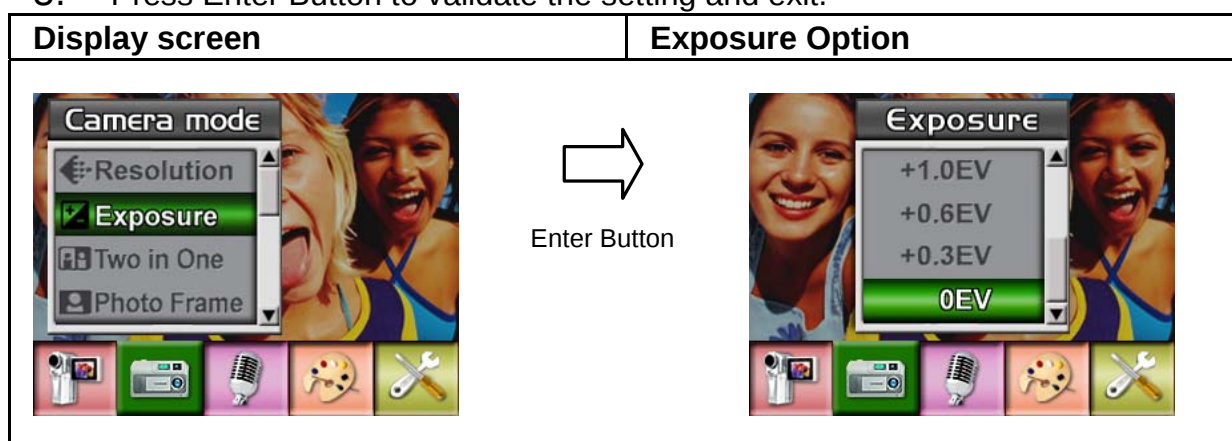
Exposure

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.

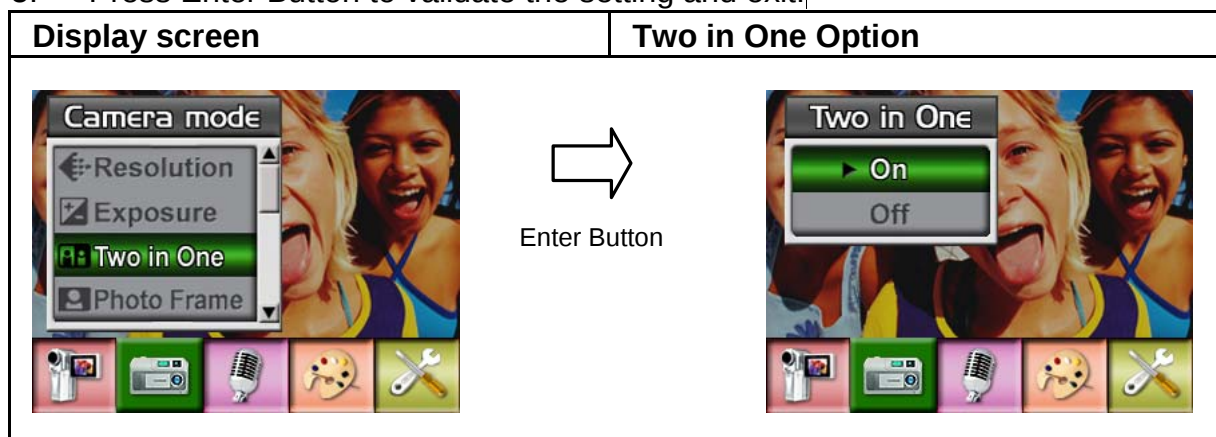
2. Use Right/Left Buttons to select Camera Mode. Submenu of Camera Mode will pop out on the screen
3. Use Up/Down Buttons to move to Exposure Option. Press the Enter Button and then Exposure Submenu will pop out on the screen.
4. Use Up/Down Buttons to choose preferred EV value. The change can be previewed immediately.
5. Press Enter Button to validate the setting and exit.



Two in One (Camera 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 Button 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.



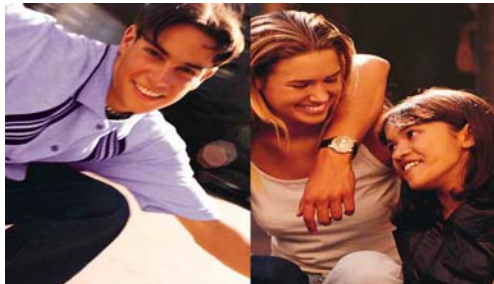
1. Press Picture Shutter Button to take first picture	
2. Press Picture Shutter Button to take second picture.	
3. Press the RECORD/PLAY Button to view the Two in One picture.	

Photo Frame (Camera Mode Only)

Your camera features a popular electronic photo frame. You can take your picture with a 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.

Display screen	Photo Frame Option
	

Enter Button

Flash (Camera Mode Only)

This camera has two flash settings. To change flash setting use either the hot key (Right Button) or Option Setting.

1. Auto-flash(

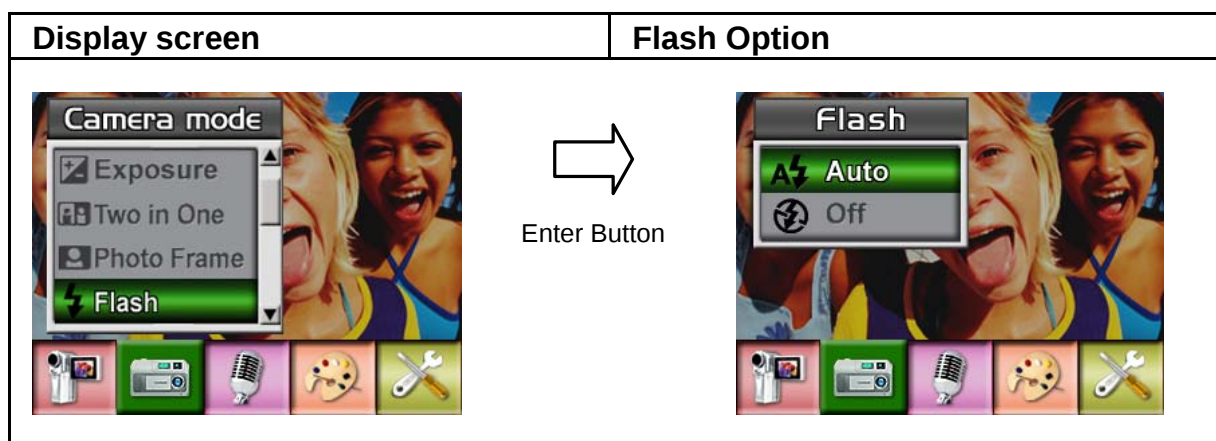
To change Flash setting:

1. When in Camera Mode, use Up/Down Buttons to select Flash Option, then press Enter Button to switch to Flash submenu.
2. Use Up/Down Buttons to move between 2 settings.
3. Press Enter Button to validate the setting and exit.



NOTE

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

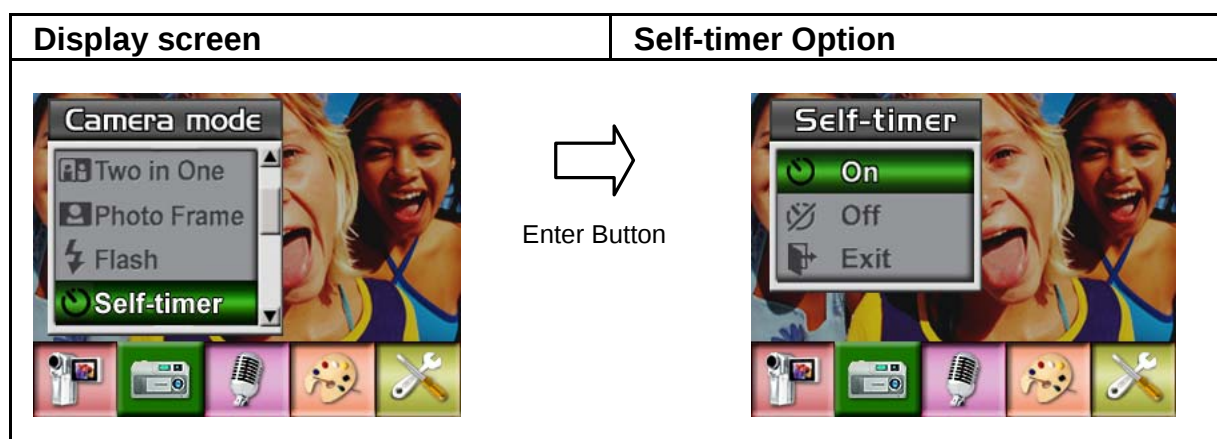


Self-timer (Camera Mode Only)

The self-timer allows you to take pictures with a ten-second time delay. Activate Self-timer using either the 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.

To enable Self-timer:

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

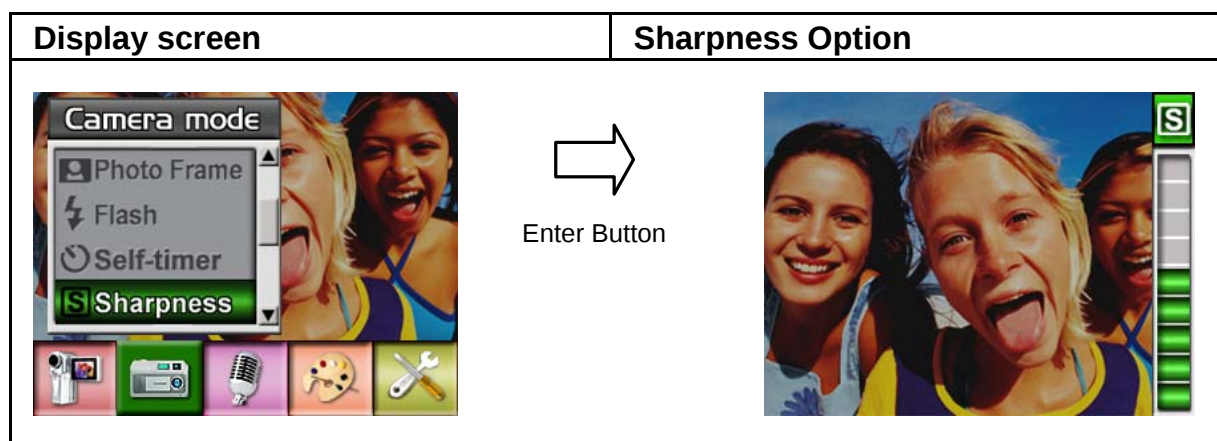


Sharpness

You can soften and sharpen images to achieve different effects.

To change Sharpness setting:

1. When in Camera Mode, use Up/Down Buttons to select Sharpness Option, then press Enter Button to switch to Sharpness submenu.
2. Use Up/Down Buttons to select Sharpness then press Enter Button 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.



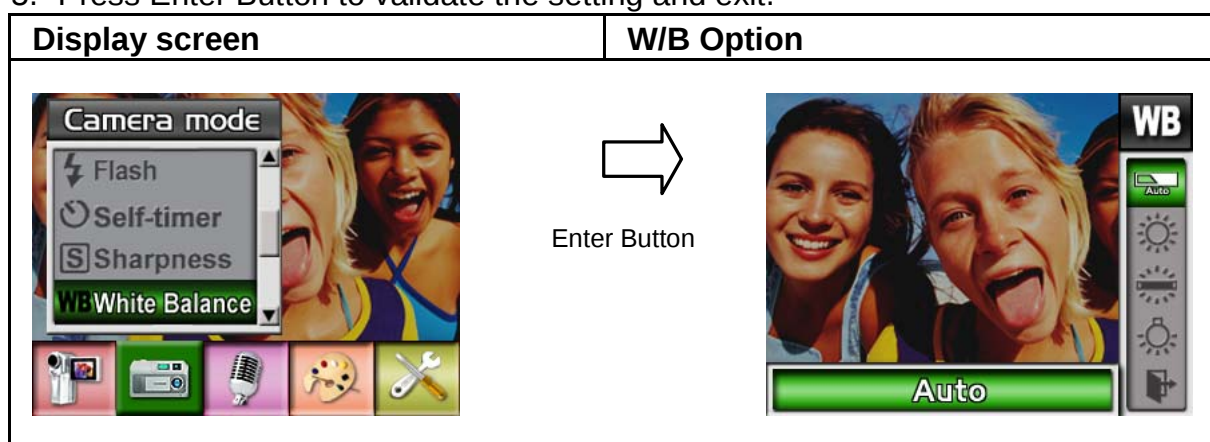
White Balance

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:

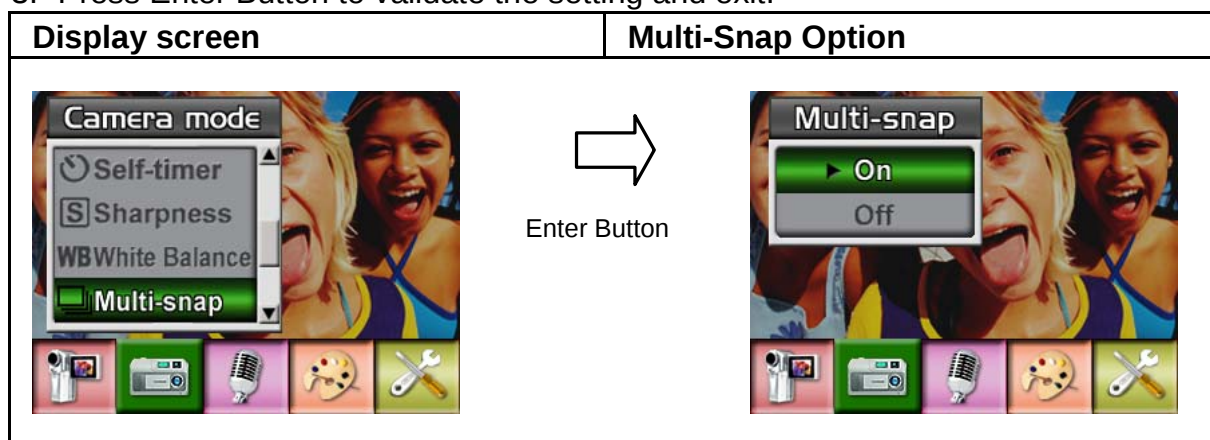
1. In Movie/Picture Record Mode, press Enter Button to switch to record menu screen.
2. Use Right/Left Buttons to select Camera Mode. Submenu of Camera Mode will pop out on the screen.
3. Use Up/Down Buttons to select White Balance, then press Enter Button to switch to White Balance submenu.
4. Use Up/Down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

**Multi-Snap (Camera Mode Only)**

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

To enable Multi-Snap:

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

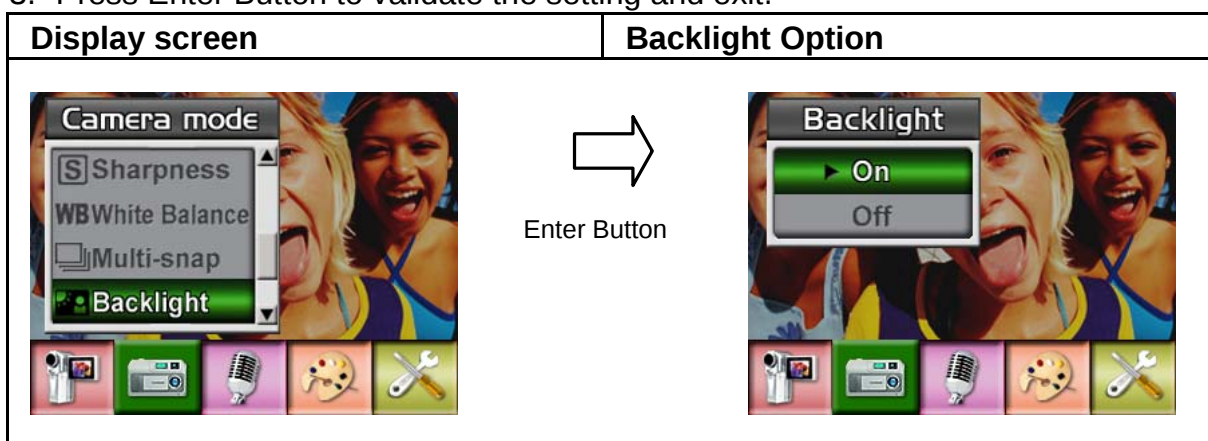


Backlight (Camera Mode Only)

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

To enable Backlight:

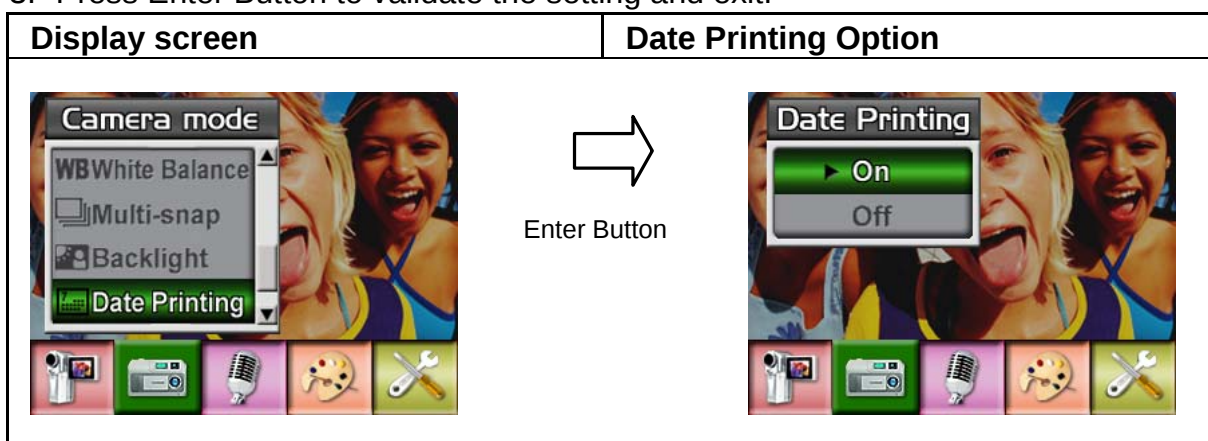
1. When in Camera Mode, use Up/Down Buttons to select Backlight, then press Enter Buttons to switch to Backlight submenu.
2. Use Up/Down Buttons to choose On or Off.
3. Press Enter Button to validate the setting and exit.



Date Printing (Camera Mode Only)

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.



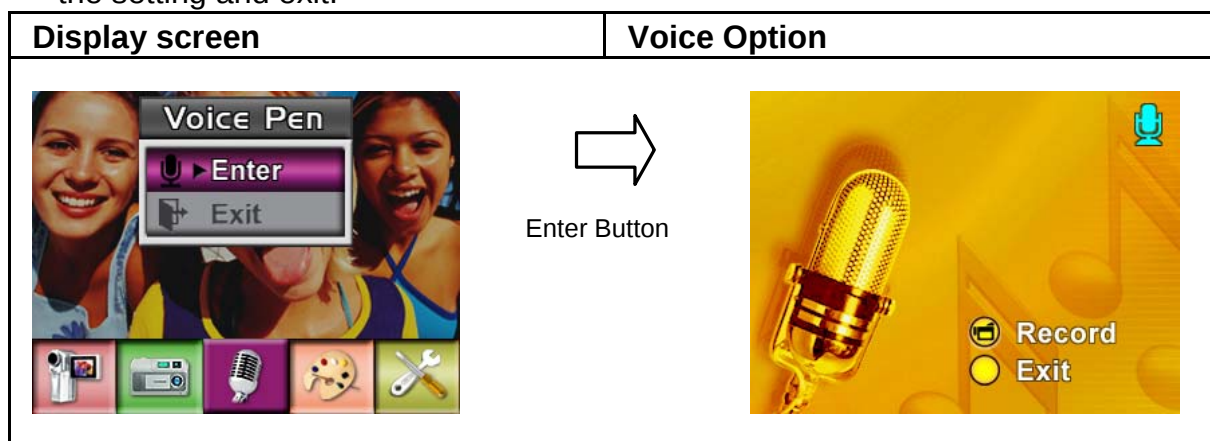
NOTE

Date will be shown on the printed picture once date printing is enabled.

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 Button 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.

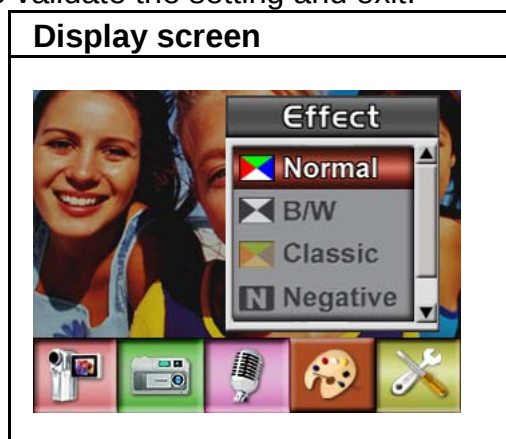


Effect Setting

There are four modes which 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.



Setting 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 Right/Left Buttons to move to Setting option, then Setting Submenu will pop out on the screen.
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

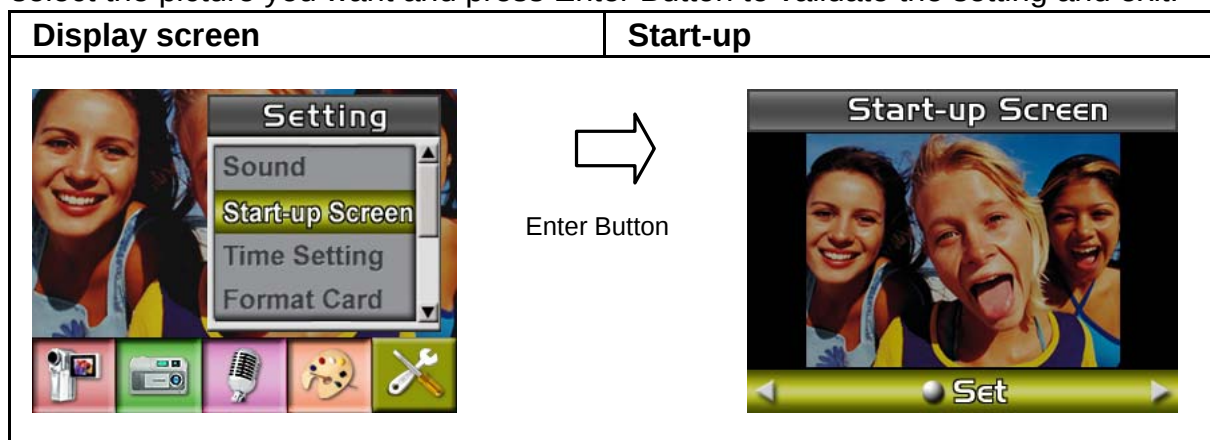
Sound

Enable or disable Keypad tone and operation sound by using Up/Down Buttons, then press Enter Button to validate the setting.

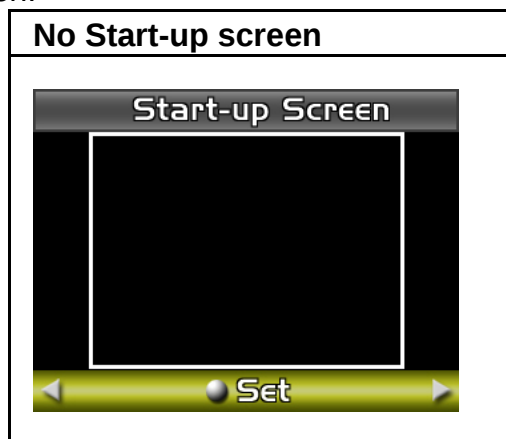
Display screen	Sound Option
	Enter Button 

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.

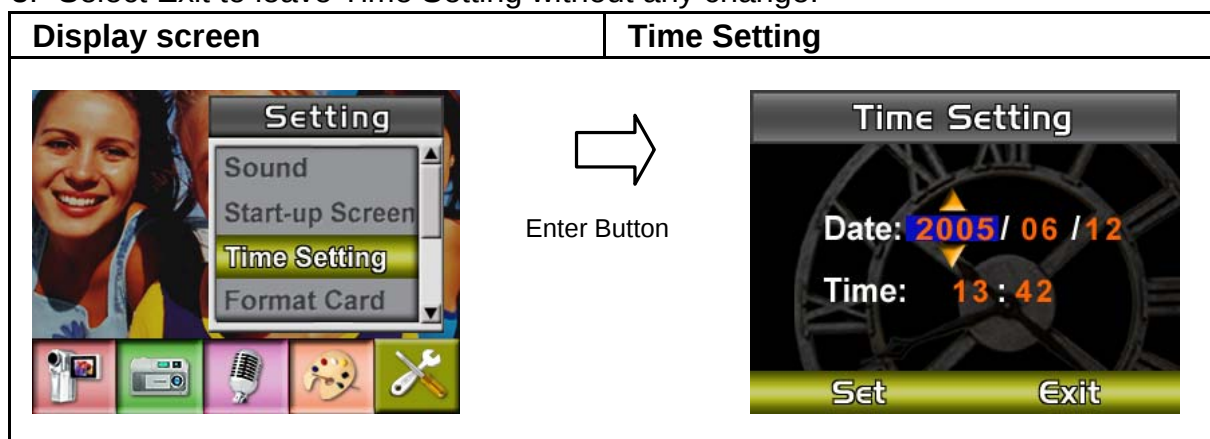


If you do not want to customize the start up screen, press Left/Right Buttons and select No Start-Up Screen.



Time Setting

1. Move between Date, Time, Set 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.



Format Card

Display screen	Format Card option
	

Enter Button

Yes: Format the SD Card / built-in memory

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



NOTE

- All the data will be erased if the SD card is formatted. Make sure all the data is duplicated to PC before formatting SD card.

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.

Display screen	TV System option
	

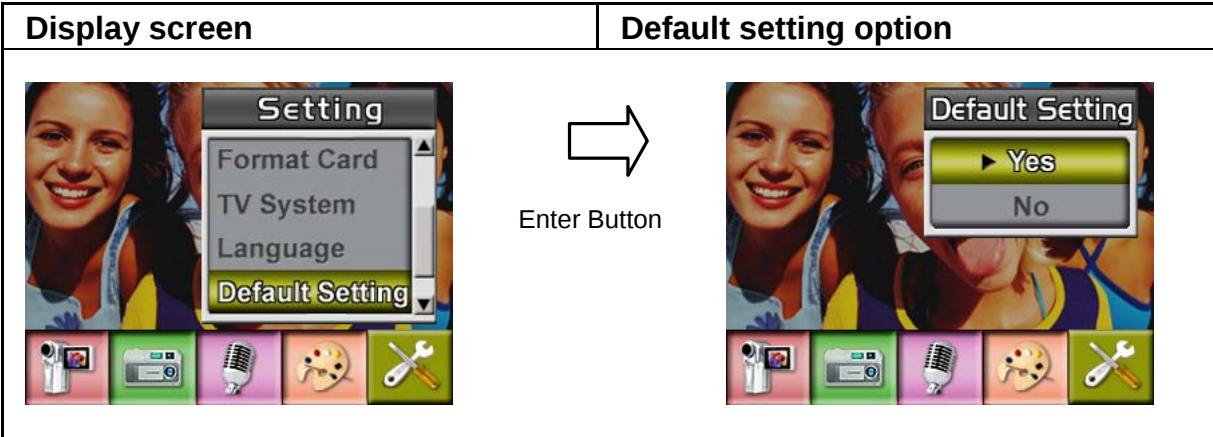
Enter Button

Selecting Interface Language



Default Setting

To restore the default factory setting, select this option.



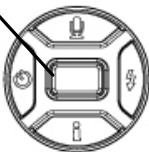
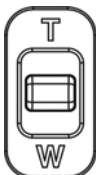
Playback Mode

Press RECORD/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, or reading an eBook on the built-in memory or on an optional memory card.

Operation	Display screen
Press RECORD/PLAY Button to switch from Record Mode to Playback Mode Main Menu. ☐ There are five options in the Playback Mode, movie, picture, voice, music, and eBook. ☐ Direction Buttons can be used to select the specific option. Press Enter Button to view movies/ pictures, listen to voice/music, or read eBook.	

Button Functions

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

Enter button Up button Left button Right button Down button 	Right Button : Go to the next movie/ picture. Left Button : Go to the previous movie/ picture. Up Button : Invalid Down Button : Information ON/OFF Enter Button : Enter to movie, picture, voice, or music option menu
 RECORD / PLAY	RECORD/PLAY Button functions: 1. Switch between Record and Playback modes. 2. Return to the previous page.
	Tele-Wide Button: Digital Zoom in and out.



Movie Shutter Button :
Start playing the recorded movie or voice

LCD Monitor Information

Indicators on the LCD screen while in Playback Mode:



(1)	Mode Indicator	
		Movie Playback Mode
		Picture Playback Mode
		Voice Playback Mode
		Music Playback Mode
(2)		eBook Playback Mode
	Resolution Indicator	
		High Resolution
		Standard Resolution
		Low Resolution

(3)	 Indicates the selected movie/picture is locked.
	 Indicates the single movie/voice/MP3 is being repeated.
	 Indicates all of the movies/voices/MP3 are being repeated.
	 Indicates the slide show is playing.
(4)	Current Number/ Total number of movie, picture, voice, or MP3.
(5)	 Magnification Indicator.

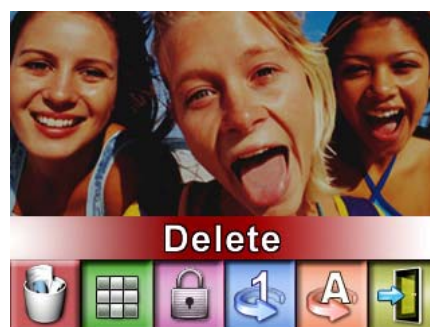
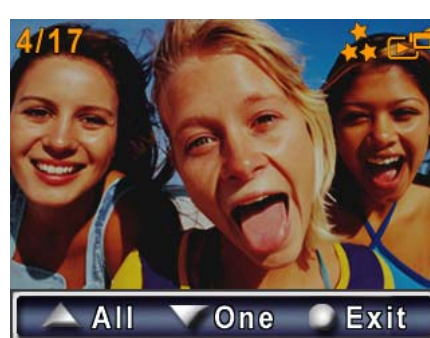
Movie Playback

Operation	Display screen
1. Use Direction Buttons to select the Movie option. 2. Press Enter Button to go to Movie Playback Mode.	
3. Use Right/Left Buttons to go to the next or last movie. 4. Press Movie Shutter Button to play and press it again to pause. 5. While playing movie, press Right/Left Buttons to fast forward/backward, then release the button to stop. 6. Use Up/Down Buttons to adjust volume.	

7. Press Enter Button to go to the movie option menu.
8. Use Direction Buttons to select six options: Delete, Thumbnail, Lock, Repeat One or All and Exit.



Delete Movies

Operation	Display screen
1. Use Direction Buttons to select the Delete option ().	
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 and "No" to cancel 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
1. Use Direction Buttons to select the Thumbnail option ().	
2. Press Enter Button to view nine thumbnail movies. 3. To play a movie, use Direction Buttons to select the movie and press Enter Button to view.	

Lock Movies

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

Operation	Display screen
1. Use Direction Buttons to select the Lock option (). 2. Press Enter Button to go to the Lock menu.	

3. Use Right/Left Buttons to select the movie.
4. Use Up Button to lock/unlock all movies and Down Button to lock/unlock single movie.
5. Before a movie is locked/unlocked, a confirmation screen will appear; choosing "Yes" will execute the operation, "No" will cancel the operation.
6. Press Enter Button to exit.

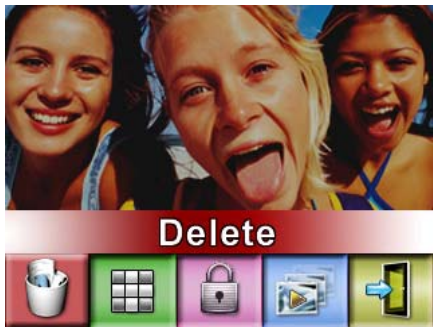


Repeat Movies

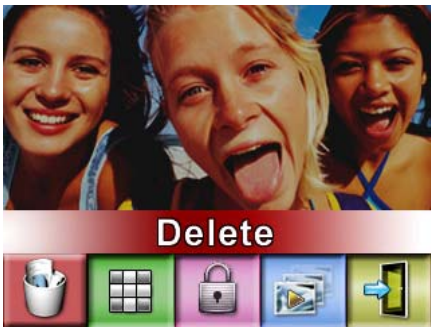
This function automatically repeats playing single movie or all movies in order.

Operation	Display screen
1. Use Direction Buttons to select the Repeat One option (↶) or Repeat All option (↷). 2. Press Enter Button to start repeating.	

Picture Playback

Operation	Display screen
1. Use Direction Buttons to select the Picture option. 2. Press Enter Button to go to Picture Playback Mode.	
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.	
6. Press Enter Button to go to the picture option menu. 7. Use Direction Buttons to select five options, Delete, Thumbnail, Lock, Slideshow, or Exit.	

Delete Picture

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



NOTE

- If you are using a memory card, 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.

Thumbnail Function

Operation	Display screen
1. Use Direction Buttons to select the Thumbnail option ().	

2. While selecting Thumbnail option, press Enter Button to view nine thumbnail pictures.
3. To view a picture, use Direction Buttons to select the picture.
4. Press Enter Button to view the selected picture.



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 (🔒).	
2. Press Enter Button to go to the Lock menu. 3. Use Right/Left Buttons to select the picture. 4. Use Up Button to lock/unlock all pictures and Down Button to lock/unlock single picture. 5. Before a picture is locked/unlocked, a confirmation screen will appear; choosing "Yes" will execute the operation, "No" will cancel the operation. 6. Press Enter Button to exit.	

Make Slide Show

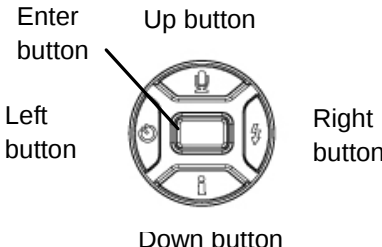
This function automatically repeats all pictures in order.

Operation	Display screen
1. Use Direction Buttons to select the Slide option (📺). 2. Press Enter Button to start the slide show; Press it again to stop.	 The image shows a camera's LCD screen during a slide show. At the top, there is a photo of three young women smiling. Below the photo is a blue banner with the text "Slide Show" in white. At the bottom of the screen is a row of six icons: a trash can, a grid, a padlock, a play button, a folder, and a right-pointing arrow.

Voice Playback

Direction Buttons Function

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

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

Operation	Display screen
1. Use Direction Buttons to select the Voice option. 2. Press Enter Button to go to Voice Playback Mode.	
3. Use Right/Left Buttons to go to the next or last voice recording. 4. Press Movie Shutter Button to start playing back the selected voice. Press it again to stop. 5. Use Up/Down Buttons to adjust the volume. 6. Press Enter Button to go to the voice playback option menu.	
7. Use Up Button to select Delete option and Down Button to select Repeat option.	

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

Listening to MP3 Music

MP3 Music

MP3 is a compressed audio file format. MP3 music can be downloaded from some MP3 web sites. This DV includes MP3 play features with lyrics display. To enable this function, make sure both .mp3 and .lrc files with the same file name are copied to the memory.

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. Transfer .lrc file to My Computer\Removable Disk\MP3 if you have .lrc file
6. Once all the music is transferred, disconnect the USB cable from the PC.



NOTE

- The file names of MP3 and lrc must be the same for the correct lyrics display while MP3 is playing.

Listen to MP3 Music

Operation	Display screen
1. In Playback Mode, use Direction Buttons to select the Music option	

2. Use Up/Down Buttons to locate the MP3 you want to play, or press Right/Left Buttons to jump to the next/previous page. There is an icon  in the front for those MP3 files with Lyrics display.

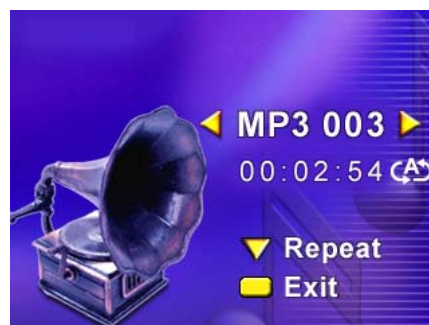


3. Press Movie Shutter or Enter Button to play MP3 file.
4. Press Movie Shutter Button again to stop playing.
5. Press Up/Down Buttons to adjust volume.



6. Press Enter Button to go to repeat menu.
7. Press Down Button once to repeat current MP3 (.
8. Press Down Button twice to repeat all MP3 (.
9. Press Enter Button to exit.





Listen to MP3 Music with earphone

MP3 files stored in the camera can be played either by the 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.



Reading eBook

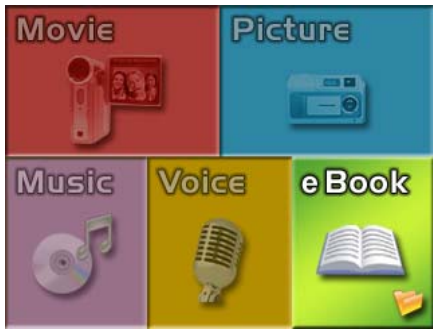
eBook

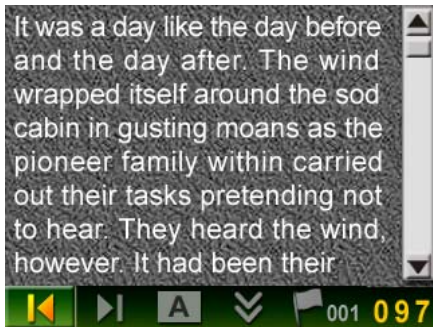
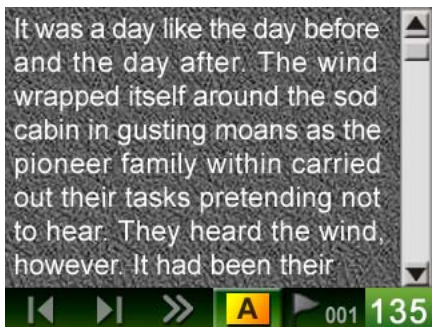
An eBook is an electronic edition of a physical book. eBooks in your camera have many features that traditional paper books do not: you have the freedom to control the look and feel of your eBook through colors, your own bookmarks, and you can carry your eBooks anywhere with your camera.

Transfer eBooks 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 eBooks, .txt file format only, to My Computer\Removable Disk\eBook.
5. Once all the files are transferred, disconnect the USB cable from the PC.

Read eBooks

Operation	Display screen
1. In Playback Mode, use Direction Buttons to select the eBook option	
2. Use Up/Down Buttons to select an eBook you want to read, or press Right/Left Buttons to jump to the next/previous page. There is an icon  in the front for those eBooks with a bookmark added.	

Operation	Display screen
3. Press Enter Button to read the eBook. 4. Press Up/Down Buttons to scroll up/down the text	
5. Select ⏮ to jump to the first page 6. Select ⏭ to jump to the last page 7. Select A to change the color of text and background. 8. Select ⏩ to auto scroll down the text. 9. Select 🚩 to add a bookmark.	

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 featured in this camera to take DVD-quality MPEG4 movies. The MPEG4 movie format of AVI is used in this camera.

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 "Device Driver" (Install MPEG4 Video Codec Xivd) 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 the 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.

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.

Video File Converter

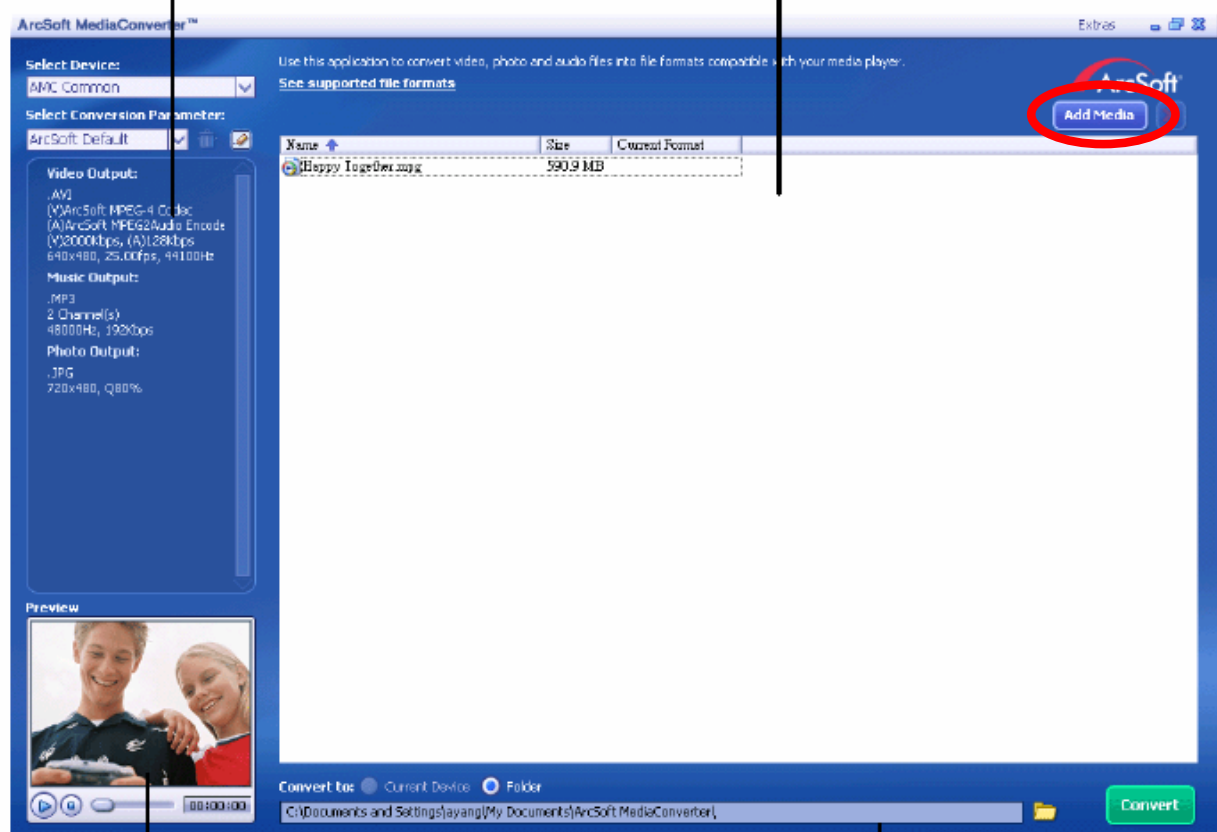
Bundled software CD contains Arcsoft Media Converter that features a video file converter to convert multiple video formats into MPEG4 Xvid compatible format with your camera. In this way, you can convert any format of video files and playback your favorite movies on your camera.

To convert a video file:

1. Install Arcsoft Media Converter2
2. Click Start→ Select Programs→ Arcsoft Media Converter2→ Media Converter2
3. Media Converter main Screen will appear on your desktop.
4. Click “Add Media”

File Output Information pane

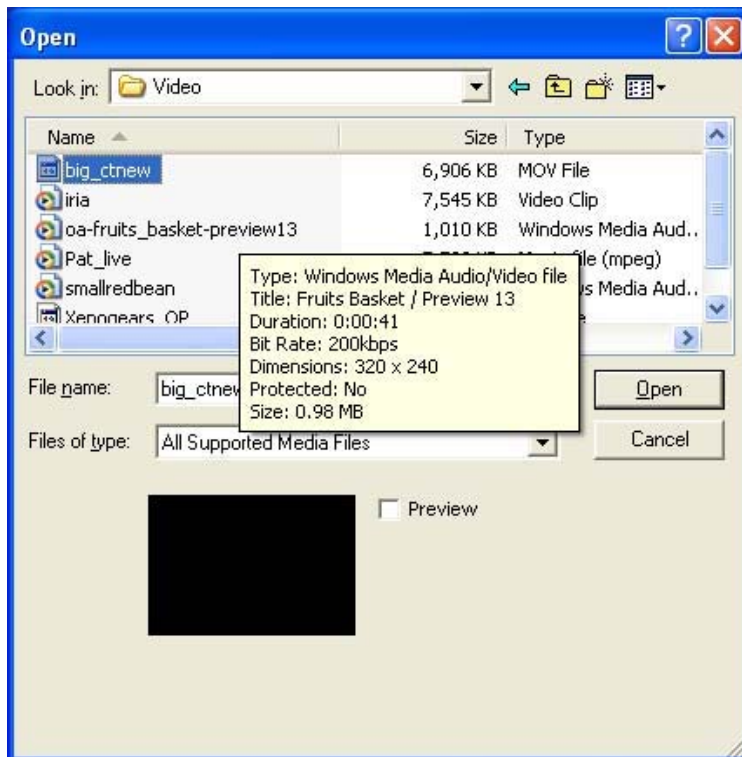
File Information pane



Preview Window

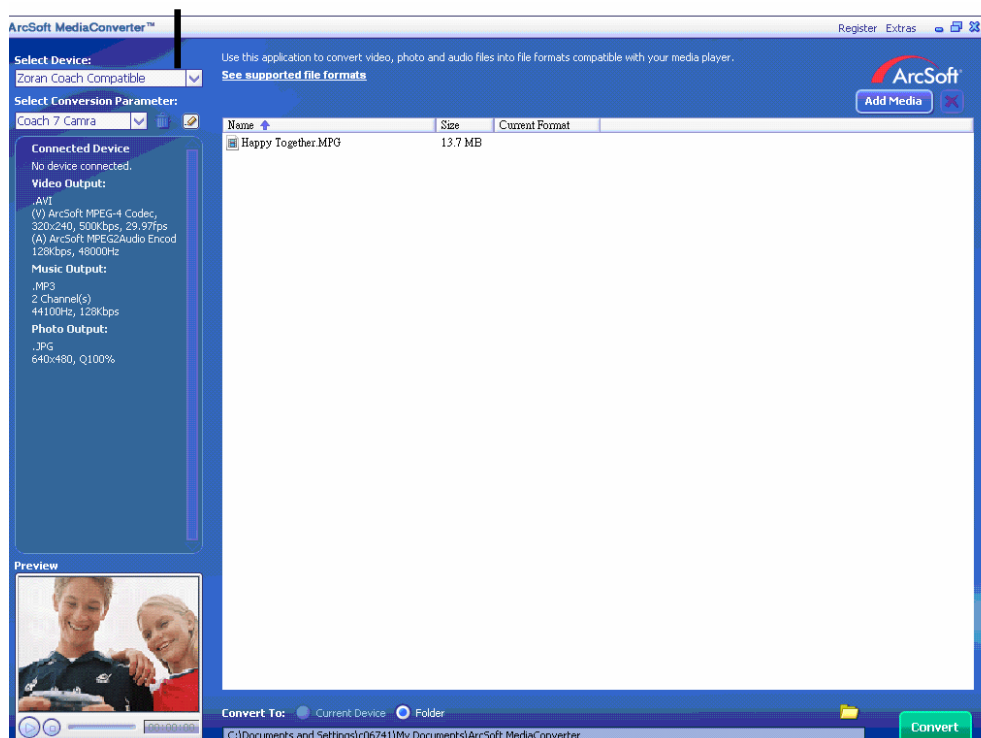
Converted File Path

5. Select the video file you want to convert.



6. Select "Zoran Coach Compatible" in "Select Device" column. The "Select Conversion Parameter" will change to "Coach Camera" respectively.

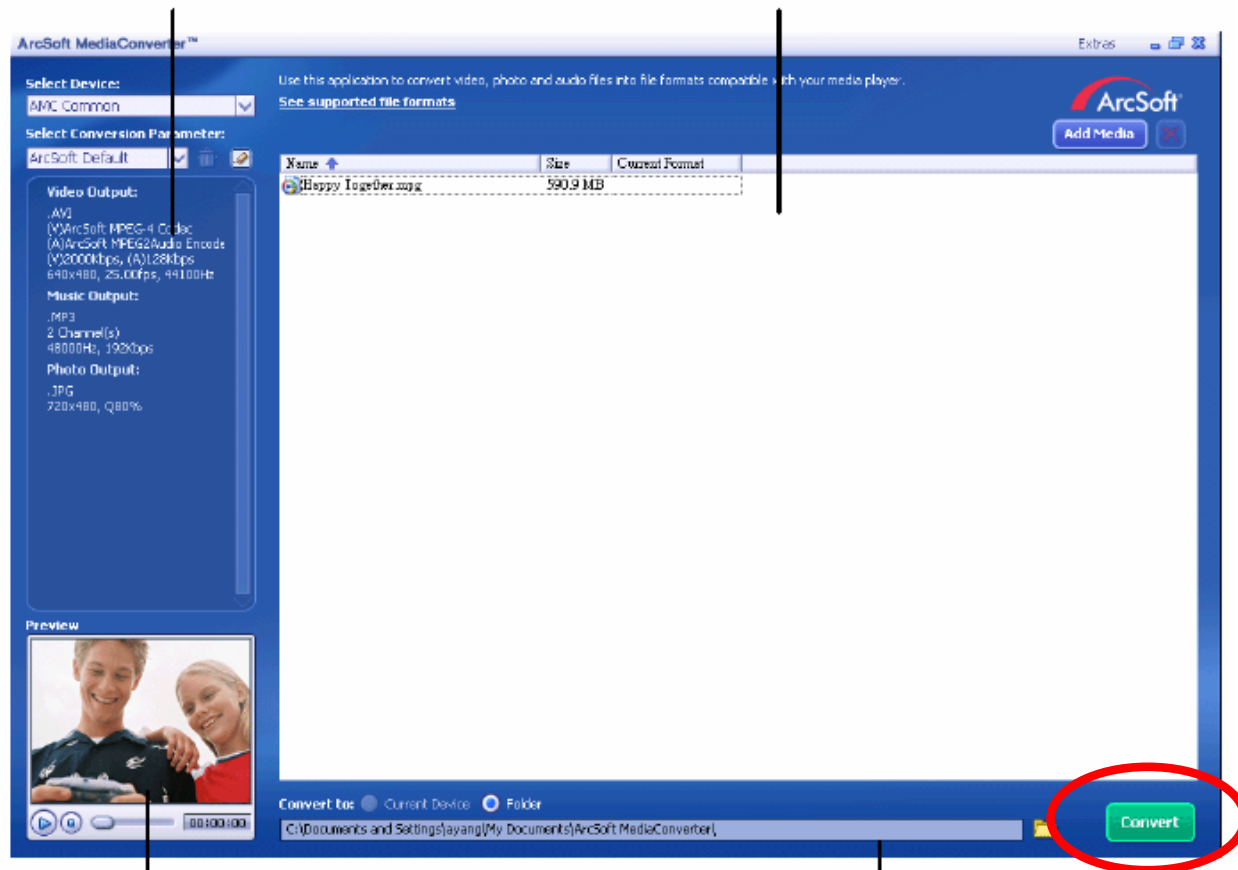
Compatible Device Selection



- Click "Convert" to start video converting.

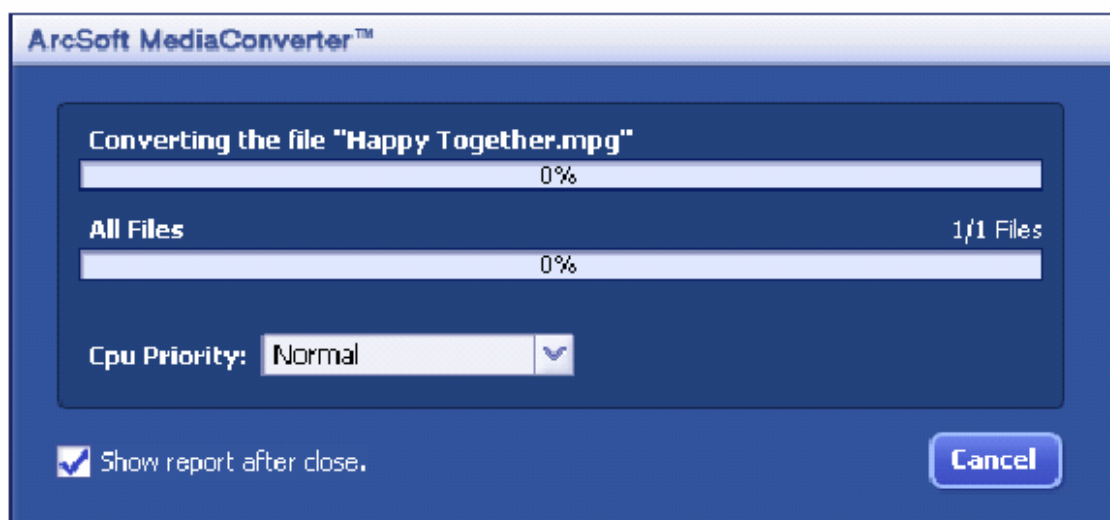
File Output Information pane

File Information pane

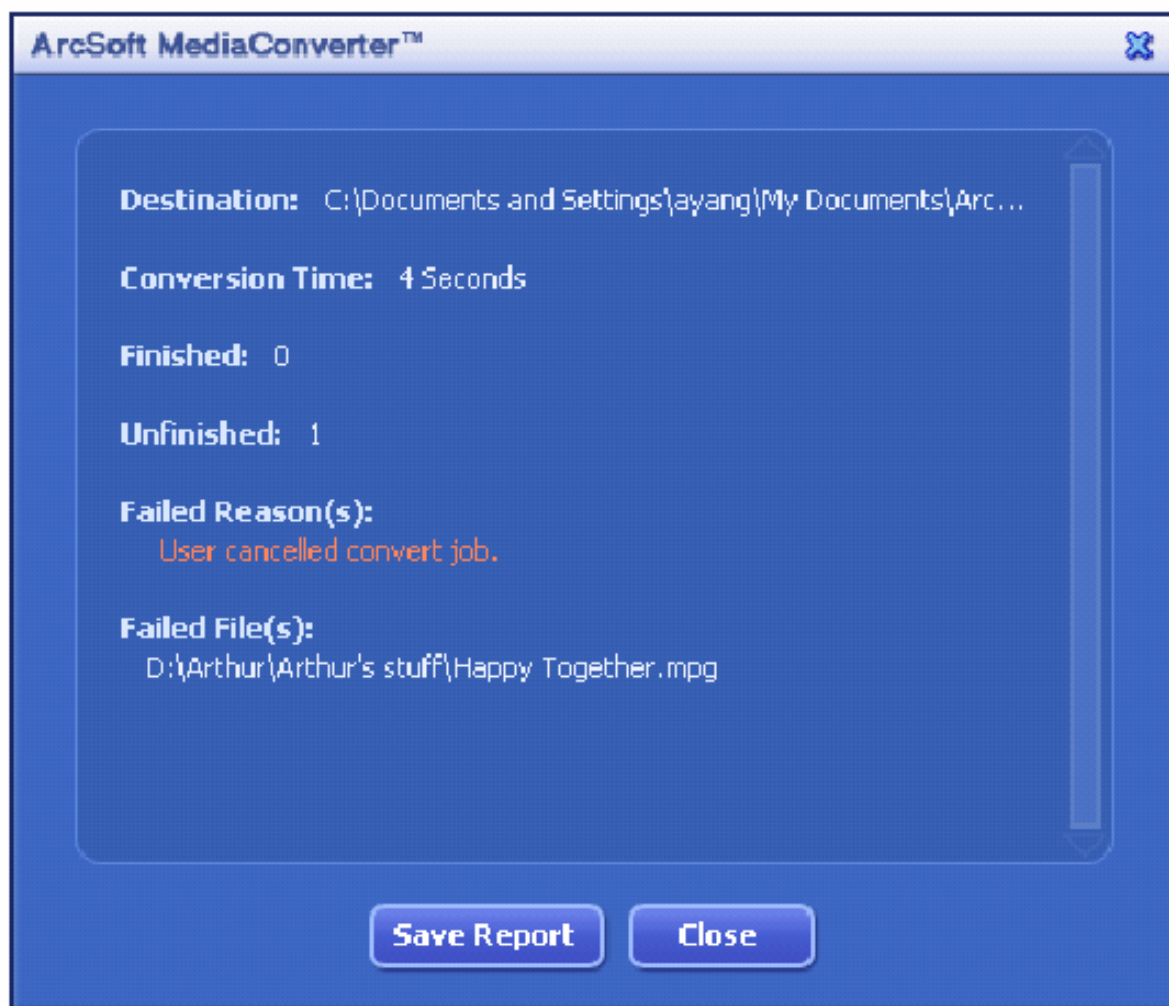


Preview Window

Converted File Path



8. Task Report window will pop out after the task is completed.

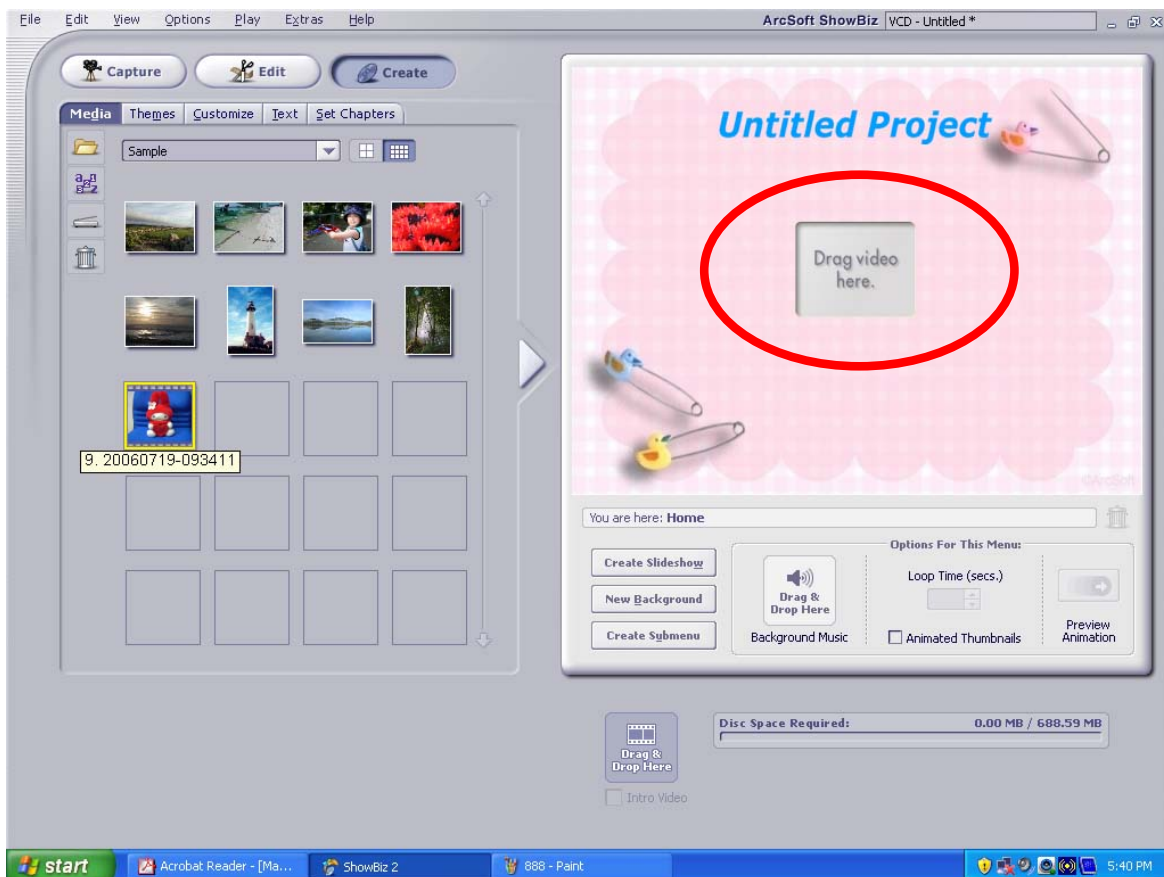


9. Before transferring the converted file to your camera, rename the converted file to "Clip0001.avi". (Please note: if Clip0001.avi exists in the camera, then the converted file has to be renamed to clip0002.avi)
10. Connect your camera to PC and transfer the converted video to "My Computer\Removable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

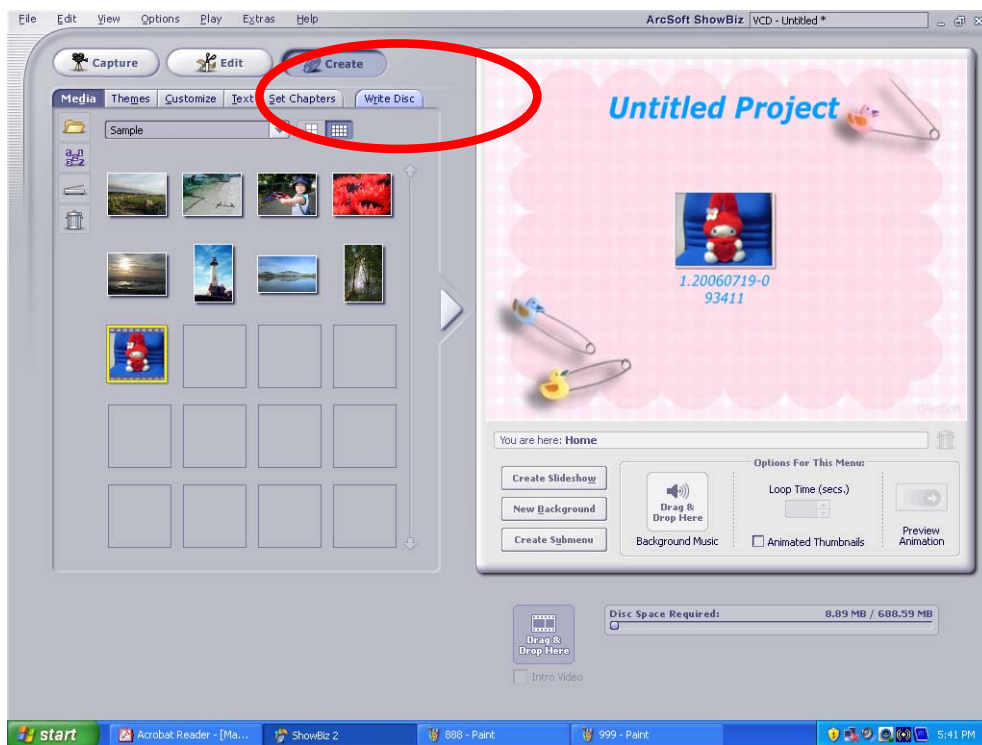
Burning the Recorded Clip into DVD

The bundled software CD contains ArcSoft Showbiz DVD for burning the movie clip into a DVD. You can preserve your precious movies on a DVD to share with family and friends. To create a DVD:

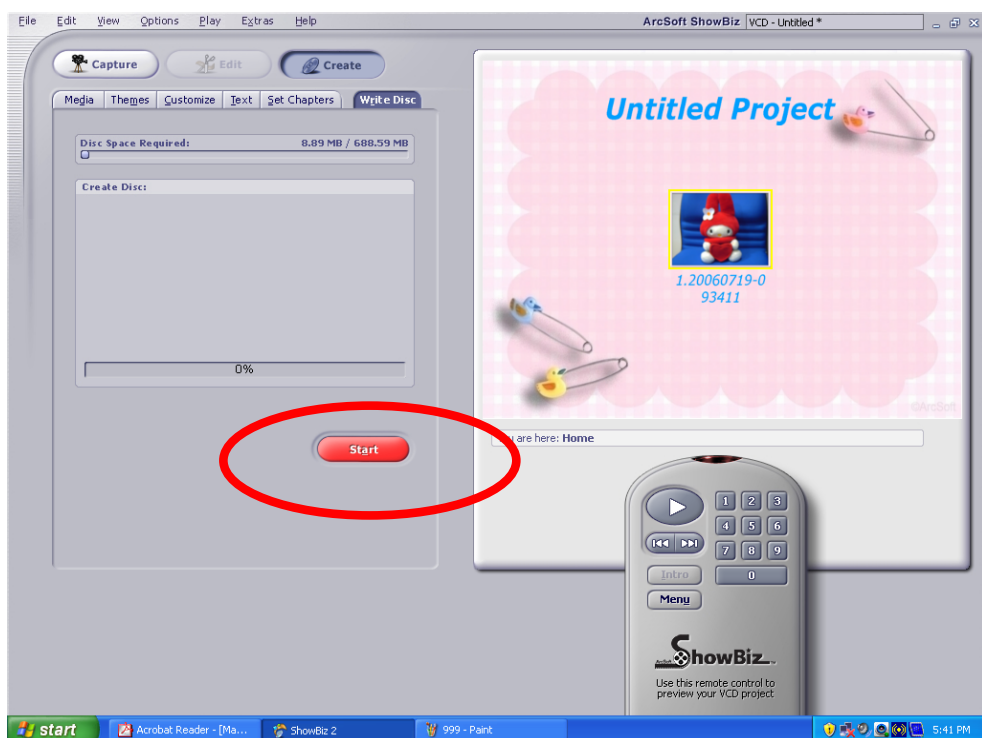
1. Install Arcsoft Showbiz DVD
2. Click Start→ Select Programs→ Arcsoft Showbiz DVD→ Showbiz DVD
3. Showbiz DVD main Screen will appear on your desktop.
4. Drag Video File to “ Drag Video Here”



5. Click "Create"



6. Click "Start" to start DVD burning



Transferring Data to a Computer

Installing the Digital 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 "Device Driver". 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 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 Arcsoft application software to edit the movies or pictures.

Web Camera Mode

When in Mass Storage Device Mode, press RECORD/PLAY Button to switch to Web 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.

Installing Bundled Software

The CD-ROM supplied with this video camera contains:

- ☐ **Multi-language manuals**
- ☐ **Device driver**
 - **USB/Web Cam driver**
 - **MPEG4 Video Codec Xvid**, this decode software has to be installed for correctly viewing the movies you record.
- ☐ **Arcsoft Photo Impression** is a user-friendly application that helps you read, edit and organize images.
- ☐ **Arcsoft ShowBiz** allows you to edit movies and is equally easy to use.
- ☐ **Arcsoft Media Converter** can convert multiple video formats into MPEG4 Xvid compatible format with your camera.

To install the bundled software:

1. Insert the CD-ROM into your computer's CD-ROM drive. The autorun screen appears.
2. Select the software you want to install from the list, then click it. Follow the on-screen instructions to complete the installation.

Specifications and System Requirements

Specification

Image Sensor	5.2 Mega Pixel Sensor
Operation Modes	Video Camera, Digital Camera, TV-in Recording, Voice Recording, e-Book, MP3 Player, Web Camera, Mass Storage Device
Lens	F3.0 (f = 7.0mm)
Focus Range	100cm~infinite (Normal Mode) 70cm ~ 140cm (Portrait Mode) Center: 20 cm (Macro Mode)
Digital Zoom	8X
Shutter Speed	1/8000~1/15 second, Electronic
LCD monitor	2.4 LTPS LCD
Storage Media	Built-in 64MB Memory SD/MMC Card Slot support (up to 2GB)
Image Resolution	High: Still image 3840 x 2880 (11.0 Mega Pixels) Standard: 2592 x 1944 (5.0 Mega Pixels) Low: 1600 x 1200 (2.0 Mega Pixels)
Movie Resolution	VGA 640 x 480 pixels 30 fps QVGA 320 x 240 pixels 30 fps
White Balance	Auto/Manual (Daylight, Fluorescent, Tungsten)
Exposure	Auto/Manual
Self-Timer	10 second delay
Flash	Auto/Off
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	2 x "AA" Alkaline batteries
Dimension	95mm×71mm×34mm
Weight	142g (without battery)

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.	Replace with a new set of batteries.
	The AC power adaptor is not connected correctly.	Reconnect it properly.
The power cuts out during use.	The digital video camera was left unattended and unused, so auto power off cuts it off.	Turn the power back on.
	The battery is exhausted.	Replace with a new set of batteries.
The power does not go off.	Digital video camera malfunction.	Replace with a new set of batteries.
The battery runs out quickly.	It is being used in extreme low temperature.	Please don't use this camera under extreme low temperature.
	Many images are being captured in dark places	Please prepare extra batteries if you need take a

Symptom	Cause	Measure
	inside, requiring flash.	lot of images with flash.
The battery or digital video camera feels warm.	Long period of continuous use of the digital video camera or the flash.	Please turn off the camera if you don't use it.

Shooting

Symptom	Cause	Measure
Even if I press the shutter button, the digital video camera does not shoot.	The battery is running low.	Replace with a new set of batteries.
	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.
	The auto power off function is activated.	Turn the power on again.
Images do not appear on the LCD monitor.	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 not operate.	The battery is running low.	Replace with a new set of batteries.
	Digital video camera malfunction.	Turn the power off and remove the 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.	Replace with a new set of batteries.
	The USB driver is not installed (for Windows 98/98SE).	Install USB driver.