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Section 1 Getting to Know Your Camera

Overview

The camera with 5 Mega Pixel sensor can take H.264 movies. By way of using H.264 technology, more videos can be taken within certain amount of memory. High quality images with up to 11 mega-pixels can also be delivered smoothly. With a color LCD monitor, users can compose images and examine them easily.

The Camera also features movie recording at HD resolution of 1280x720. You can also connect DV to a HDTV by HDMI cable, and easily playback recorded high-definition videos on the wide screen of an HDTV.

Exposure and color balance can either be adjusted automatically or allowed to 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 computer via high speed USB 2.0 port.

Biult-in memory allows you to take pictures and movies without memory card. The memory card slot allows users to increase the storage capacity.



Note

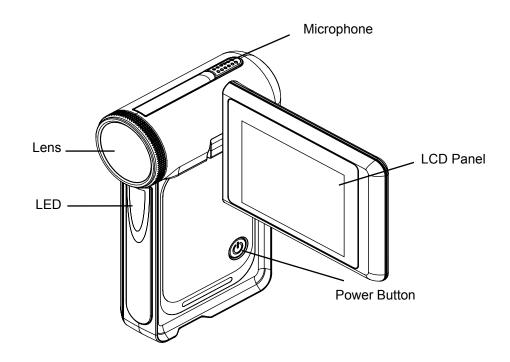
Partial memory of the built-in memory is used for Firmware code.

Standard Accessories

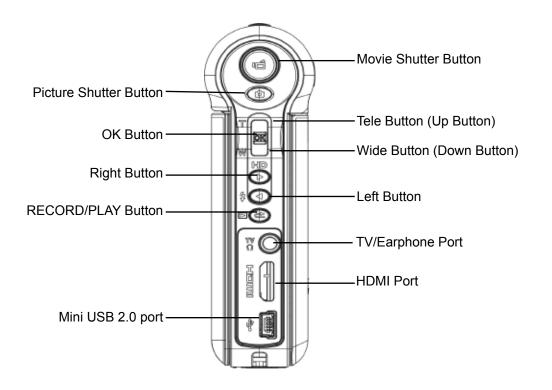
Unpack the package and make sure all standard accessories listed are included:

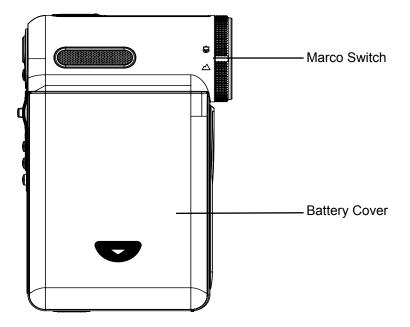
- Camera
- USB Cable
- AV Cable
- HDMI Cable
- Adaptor
- Lithium-ion Rechargeable Battery
- Quick Guide
- CD-ROM (Driver, ArcSoft Software and User Manual)
- Earphone
- Strap
- Pouch

Front View



Rear View



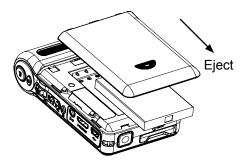


Section 2 Getting Started

Loading the Battery

Before using the camera, users must load NP 60 Battery.

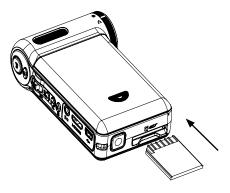
- 1. Follow the arrow direction and slide to eject the battery cover.
- 2. Insert the battery according to the correct polarity marks (+ or -).
- 3. Close the battery cover firmly.



Inserting and Removing an SD Card (Optional)

The camera comes with internal memory which allows you to store pictures, movies, voice recordings and music. You can expand the memory capacity by using an optional SD memory card. 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.



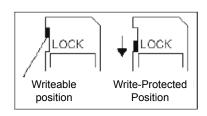


Note

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

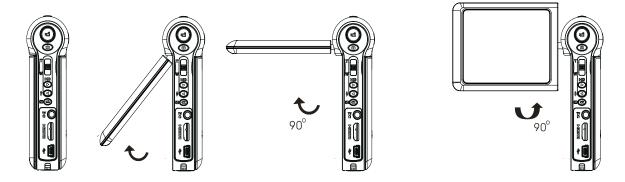
SD card is read-only by locking the SD card. No pictures, movies and voice can be recorded when the SD card is locked. Make sure the lock is on writeable position before recording any media.



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 on it.



- To take a movie, press the Movie Shutter Button ().
- To take a picture, press the Picture Shutter Button (¹).
- To record the voice, press OK Button () to enter Record Menu. Use Direction Buttons to choose Voice Pen Option. Press Movie Shutter Button () to start voice recording.
- To take movie at HD resolution, press Right Button to switch to HD mode, then press the Movie Shutter Button (
- To view stored movies, pictures, listen to stored MP3 and voice recordings, press 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.

Selecting Interface Language

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

To change advanced setting:

- 1. In Movie/Picture Record Mode, press OK 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 select Langauge option and press OK button to switch to Language Option.
- 4. Select language for your country and press OK button to validate the setting.

Submenu	Display Screen
Language	Setting Sound Time Setting Format Memory TV System Language Default Setting

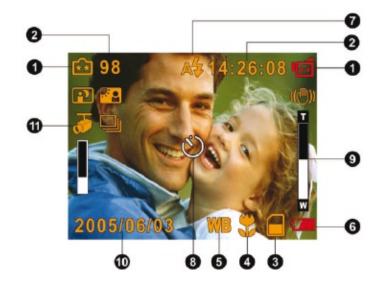
Section 3 Record Mode

Button Function

	Bisht Batters UD Made	
HD	Right Button: HD Mode	
\odot	Left Button: Flash Auto/ ON/ Off /Red Eye Reduction/Light	
* 🔿	ON	
īΟ	Tele Button (Up Button): Digital Zoom In	
D K	Wide Button (Down Button): Digital Zoom out	
w U	OK Button: Menu ON	
	Power Button: Press down for one second to turn on or turn off the camera.	
	RECORD/PLAY Button functions:	
d	1. Switch between Record /Playback Mode.	
	2. Return to the previous page.	
	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.	
m	Macro switch: Switch between Macro Mode and Normal	
	Mode.	
L_10#		

LCD Monitor Information

The indicator shows below may display on LCD when movies and pictures are recorded:



	Recor	d Mode	
	Ū	Movie Record Mode	
	۵	Picture Record Mode	
	Ē	Voice Record Mode	
	((們))	Motion Stabilization	
	AA	Two in One Mode	
		Photo Frame	
	6	Multi-Snap Mode	
	P	Night Mode	
	₹ <u>•</u>	Backlight Mode	
	Resolution		
(1)	(1) Movie: IIII HD / III D1 / III VGA / III QVGA		
	Picture: 🖾 High / 🔂 Standard/ 🔂 Low		
(2)	(2) Number of images or recording time of movie that can still be taken at current resolution.		
(3)		SD card inserted	
(4)	*	Macro Position Focusing	
(5)	WB	White Balance	
(6)	6) Battery indicator: a full power / a medium power / a low power / a power empty		

	A 4	Auto Flash
	4	Flash On
(7)	Ð	Flash Off
	• 4	Red Eye Reduction
	×	Light on
(8)	৩	Self-timer enabled
(9)	8X digital zoom	
(10)) Date/Time: YYYY/MM/DD HH: MM	
(11)	₩	Motion Detection

H.264 Movie Recording

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

Four resolution settings are available:

Quality
HD 'm
D1 ^I
VGA 🖽
QVGA 🖽

Picture Recording

Press the Picture Shutter Button () to take a picture. Press RECORD/PLAY Button to view the picture. Three resolution settings are available:

Image Quality
High Quality 🖄
Standard Quality 🔂
Low Quality 🛃

Voice Recording

1. Press OK Button to Enter Record Menu while in Record Mode.

Use Right/Left Buttons () to choose Voice Pen Option.

- 2. Press Up/Down Buttons (📲) to choose "Enter" Option and press OK button to enter Voice Record Mode.
- 3. Press Movie Shutter Button () to record voice.
- 4. Press Movie Shutter Button (🙆) again to stop.
- 5. Press RECORD/PLAY Button () to view the recorded voice.





Taking Close up Pictures

The Macro Mode (🖤) should be used for object located at about 20 cm.

To take close-up pictures:

- 1. Slide the macro switch to Macro (🖤) 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.

- 1. To zoom in/out, press the Tele/Wide Button.
- 2. The digital zoom can be set from 1x to 8x.

Options for Record Menu

Movie Mode	Camera Mode	Voice Pen	Effect	Setting
Resolution	Resolution	Enter	Normal	Sound
Exposure	Exposure	• Exit	• B/W	Time Setting
Light	Two in One		Classic	Format Memory
Sharpness	Photo Frame		Negative	TV System
White Balance	 Flash 		• Exit	Language
Stabilization	Self-timer			Default Setting
Motion Detect	Sharpness			• Exit
Night Mode	White Balance			
• Exit	 Multi-snap 			
	 Backlight 			
	Date printing			
	Night Mode			
	• Exit			

Operations for Record Mode

Operation	Screen
1. Press OK Button when in Movie/Picture Record Mode.	
 Use Right/Left Buttons to move between main menu options, which are Movie Mode, Camera Mode, Voice Pen, Effect, and Setting. Submenu will pop out while move to each main option. Press OK Button to validate sub option you select. 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.

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	VGA for Movie	
		Standard for Picture	
Exposure	One Time	0EV	
Light	One Time	OFF	
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	
Night Mode	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	

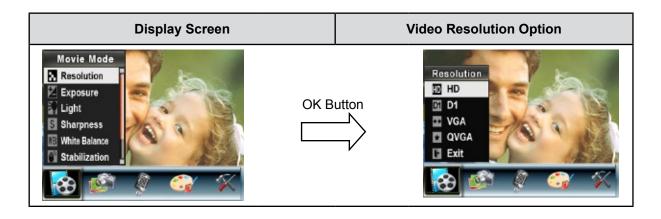
Movie Mode submenu Setting

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

Movie Resolution

To change Movie Resolution:

- 1. In Movie/Picture Record Mode, press OK 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 (Tele-Wide Buttons) () to select Resolution then press OK Button to switch to Resolution submenu.
- 4. Use Up/Down Buttons to move between four settings.
- 5. Press OK Button to validate the setting and exit.

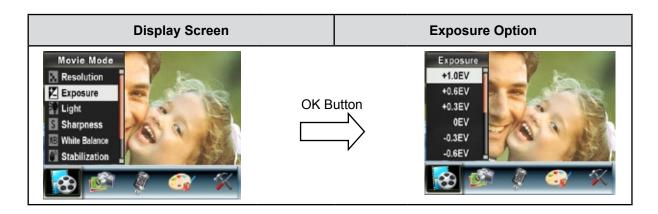


Exposure

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 OK 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 OK 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 OK Button to validate the setting and exit.



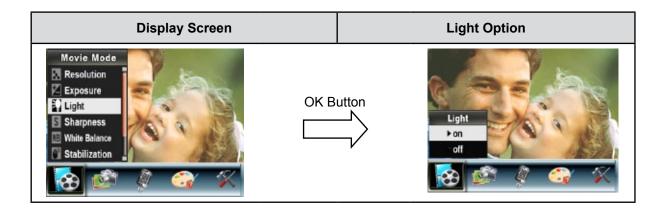
Light

The camera provides the light-on function which can add more light when shooting in low light conditions.

- Light On: LED keeps on to add light during the low light environment.
- Light Off: Disable Light-On function.

To change Light setting:

- 1. In Movie/Picture Record Mode, press OK 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 Light Option. Press OK Button and then Light Submenu will pop out on the screen.
- 4. Use Up/Down Buttons to choose ON or OFF.
- 5. Press OK Button to validate the setting and exit.

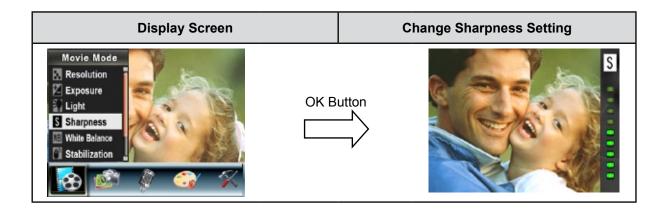


Sharpness

You can soften and sharpen images to achieve different effects.

To change Sharpness setting:

- 1. In Movie/Picture Record Mode, press OK 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 (Tele-Wide Buttons) () to select Sharpness then press OK Button to switch to Sharpness submenu.
- 4. Use Up/Down Buttons to move between nine levels. The change can be previewed immediately.
- 5. Press OK Button to validate the setting and exit.



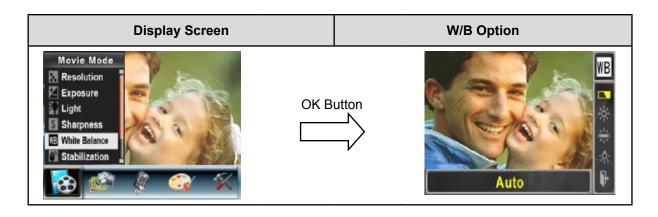
White Balance

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

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

To change White Balance Setting:

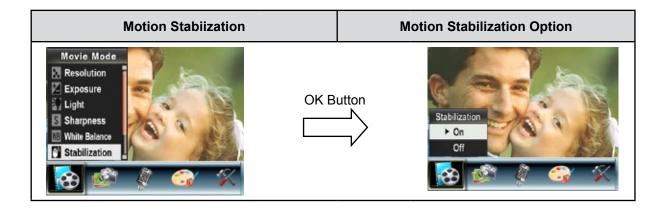
- 1. In Movie/Picture Record Mode, press OK Button to switch to record menu screen.
- 2. Use Right/Left Buttons to select Movie Mode. Submenu of Movie Mode will pop out on the screen.
- 3. Use Right/Left Buttons to select White Balance, then press OK Button to switch to White Balance submenu.
- 4. Use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



Motion Stabilization

To enable Motion Stabilization:

- 1. In Movie/Picture Record Mode, press OK 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 (Tele-Wide Buttons) () to select Motion Stabilization then press OK Button to switch to Motion Stabilization submenu.
- 4. Use Up/Down Buttons to choose ON or OFF.
- 5. Press OK Button to validate the setting and exit.



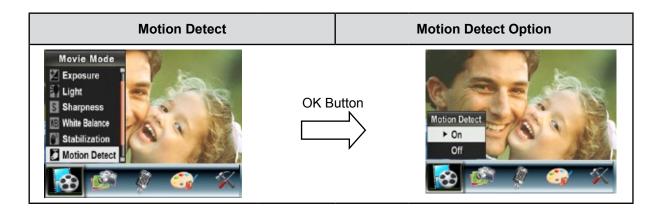


- The captured screen will be smaller when motion stabilization is enabled.
- Digital Zoom is disabled when motion stabilization is activated.

Motion Detection

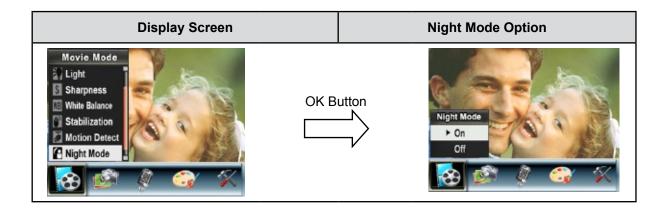
To enable Motion Detection:

- 1. In Movie/Picture Record Mode, press OK 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 (Tele-Wide Buttons) () to select Motion Detect then press OK Button to switch to Motion Detect submenu.
- 4. Use Up/Down Buttons to choose ON or OFF.
- 5. Press OK 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.



Night Mode

Use Night Mode for night scenes or low light conditions. A longer exposure captures more detail of background subjects.





Note

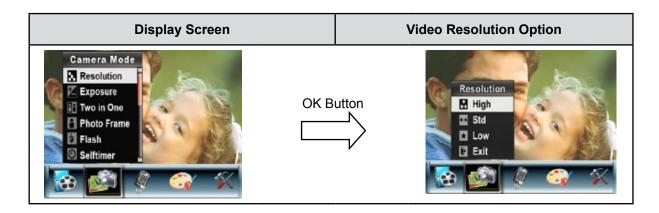
To avoid blurry pictures, place the camera on a flat, steady surface, or use a tripod.

Camera Mode Setting

Picture Resolution

To change Picture Resolution:

- 1. In Movie/Picture Record Mode, press OK 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 (Tele-Wide Buttons) () to select Resolution then press OK Button to switch to Resolution submenu.
- 4. Use Up/Down Buttons to move between three settings.
- 5. Press OK Button to validate the setting and exit.

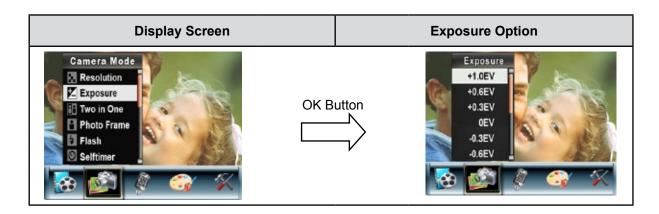


Exposure

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 OK 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 (Tele-Wide Buttons) () to move to Exposure Option. Press the OK 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 OK 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 OK 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 (Tele-Wide Buttons) () to select Two in One then press OK Button to switch to Two in One submenu.
- 4. Use Up/Down Buttons to choose ON or OFF.
- 5. Press OK Button to validate the setting and exit.

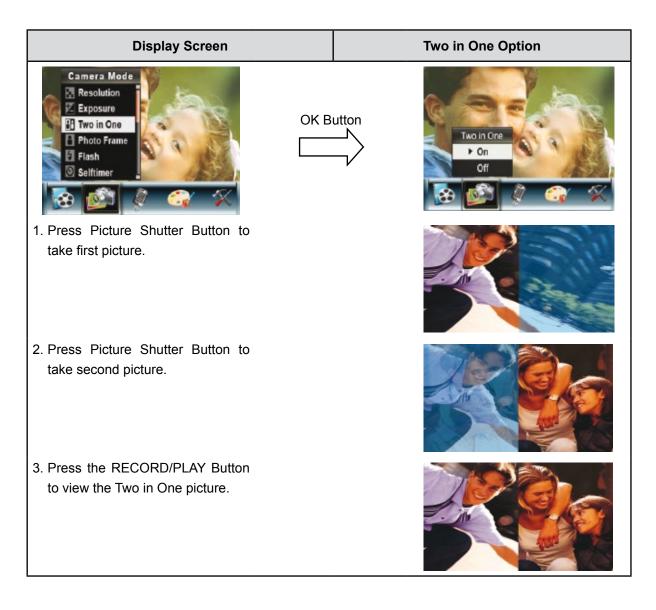


Photo Frame (Picture Record Mode Only)

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 (Tele-Wide Buttons) () to select Photo Frame option, then press OK Button to switch to Photo Frame submenu.
- 2. Use Up/Down Buttons to locate preferred photo frame. Then select Set option and press OK Button to validate the setting and exit.

Display Screen	Photo Frame Option
Camera Mode Resolution Exposure Two in One Photo Frame Flash Selftimer Camera Mode OK B	Sutton

Flash (Picture Record Mode Only)

This camera has four flash settings. To change flash setting by either hot key (Left Button) or Option Setting.

- Auto-flash (A +): the flash fires automatically according to light conditions. Use this mode for general photography.
- Flash On (4): the flash will fire in every shot.
- Flash Off (⁽²⁾): 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).
- **Red-Eye Reduction** (): The flash fires twice right before the picture is taken.

To change Flash setting:

- 1. When in Camera Mode, use Up/Down Buttons (Tele-Wide Buttons) (
- 2. Use Up/Down Buttons (Tele-Wide Buttons) () to move between 4 settings.
- 3. Press OK Button to validate the setting and exit.



Note

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

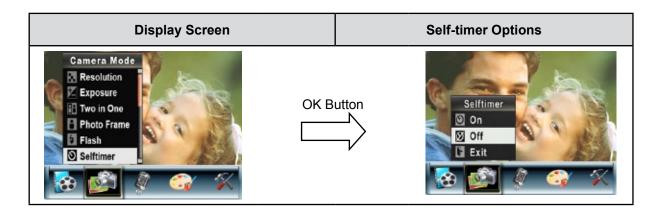
Display Screen	Flash Options
Camera Mode Resolution Exposure Two in One Photo Frame Flash Selftimer	Putton → Auto Flash → Flash on → Flash off → Red Eye Reduction

Self-timer (Picture Record Mode Only)

The self-timer allows you to take pictures with a ten-second time delay. 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 (Tele-Wide Buttons) () to select Self-timer, then press OK Button to switch to Self-timer submenu.
- 2. Use Up/Down Buttons to choose On or Off.
- 3. Press OK Button to validate the setting and exit.

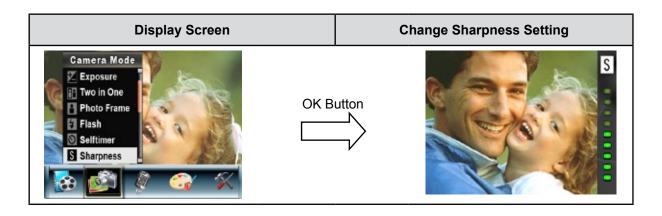


Sharpness

You can soften and sharpen images to achieve different effects.

To change Sharpness setting:

- 1. When in Camera Mode, use Up/Down Buttons (Tele-Wide Buttons) () to select Sharpness Option, then press OK Button to switch to Sharpness submenu.
- 2. Use Up/Down Buttons to select Sharpness then press OK Button to switch to Sharpness submenu.
- 3. Use Up/Down Buttons to move between nine levels. The change can be previewed immediately.
- 4. Press OK Button to validate the setting and exit.



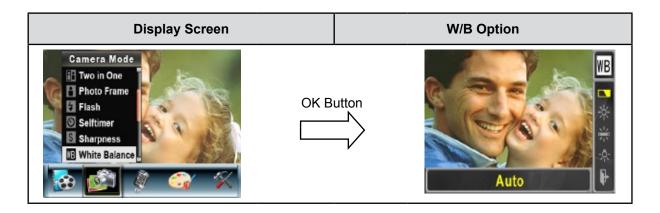
White Balance

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

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

To change White Balance Setting:

- 1. In Movie/Picture Record Mode, press Ok Button to switch to record menu screen.
- 2. Use Up/Down Buttons (Tele-Wide 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 OK 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 OK Button to validate the setting and exit.

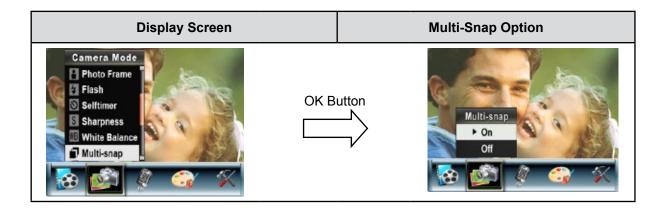


Multi-Snap (Picture Record Mode Only)

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 (Tele-Wide Buttons) () to select Multi-Snap, then press OK Button to switch to Multi-Snap submenu.
- 2. Use Up/Down Buttons to choose On or Off.
- 3. Press OK Button to validate the setting and exit.

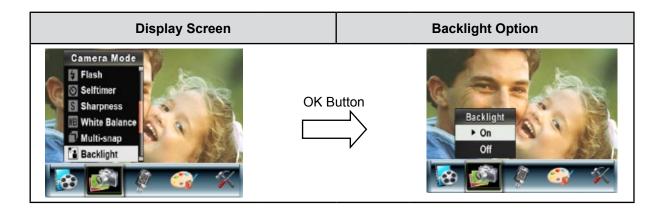


Backlight (Picture Record Mode Only)

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

To enable Backlight:

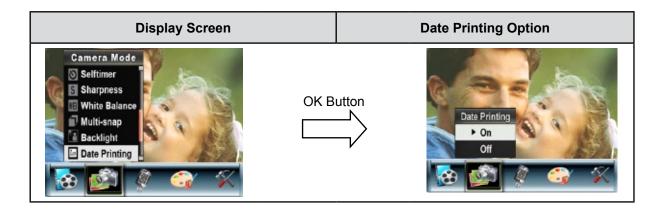
- 1. When in Camera Mode, use Up/Down Buttons (Tele-Wide Buttons) () to select Backlight, then press OK Buttons to switch to Backlight submenu.
- 2. Use Up/Down Buttons to choose On or Off.
- 3. Press OK Button to validate the setting and exit.



Date Printing (Picture Record Mode Only)

To enable Date Printing:

- 1. When in Camera Mode, use Up/Down Buttons (Tele-Wide Buttons) (
- 2. Use Up/Down Buttons to choose On or Off.
- 3. Press OK Button to validate the setting and exit.



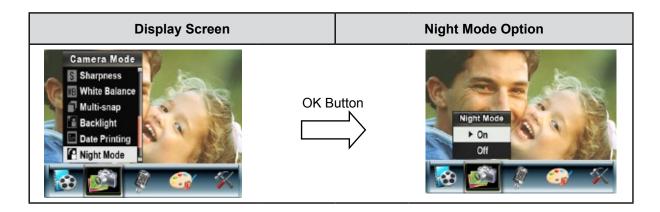


Note

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

Night Mode

Use Night Mode for night scenes or low light conditions. A longer exposure captures more detail of background subjects.





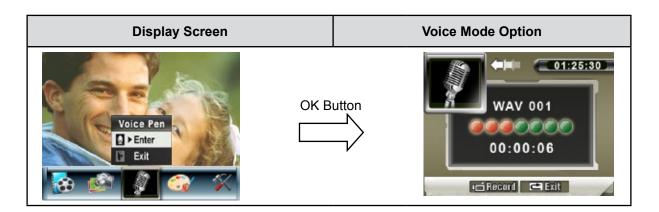
Note

To avoid blurry pictures, place the camera on a flat, steady surface, or use a tripod.

Voice Mode

To enable voice recording:

- 1. In Movie/Picture Record Mode, press OK 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. Choose Enter option to enable voice recording and press OK Button to enter Voice Record Mode.
- 4. Press Movie Shutter Button (🙆) to record voice and press it again to stop.

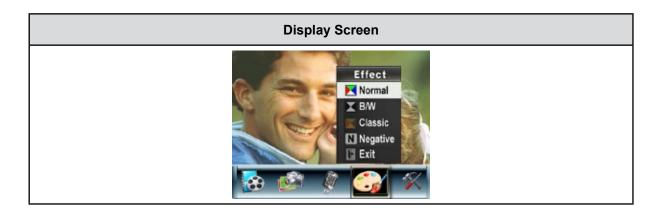


Effect Setting

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

To change Effect setting:

- 1. In Movie/Picture Record Mode, press OK 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 (Tele-Wide Buttons) () to move between four settings. The change can be previewed immediately.
- 4. Press OK 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 OK 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 (Tele-Wide Buttons) (

Display Screen	Setting Option
Setting Sound Time Setting Format Memory TV System Language Default Setting	 Sound (operation sound) Time Setting Format Card TV System Language Default Setting

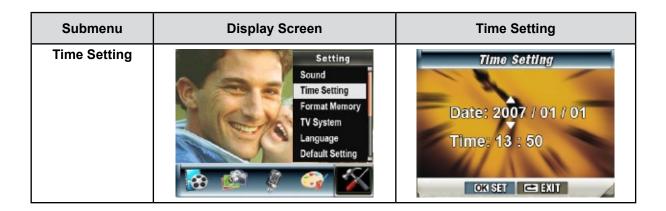
Sound Setting

Enable or disable KeyPad tone and operation sound by using Up/Down Buttons (Tele-Wide Buttons)

Submenu	Display Screen	Sound Setting
Sound	Setting Sound Time Setting Format Memory TV System Language Default Setting	Sound > On Off Con

Time Setting

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



Format Card

Submenu	Display Screen	Format Card Options
Format Card	Setting Sound Time Setting Format Memory TV System Language Default Setting	Format Card • Yes No

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 are duplicated to PC before formatting SD card.

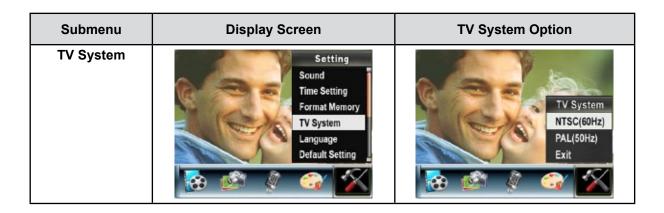
TV System

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.



Selecting Interface Language

Submenu	Display Screen
Language	Setting Sound Time Setting Format Memory TV System Language Default Setting

Default Setting

To restore the default factory setting, select this option.

Submenu	Display Screen	Default Setting Option
Default Setting	Setting Sound Time Setting Format Memory TV System Language Default Setting	Default Setting Ves No

Section 4 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 on the built-in memory or on an optional memory card.

Operation	Display Screen
Press RECORD/PLAY Button([@] ②)to switch from Record Mode to Playback Mode Main Menu.	
There are 4 options in the Playback Mode, movie, picture, voice and music.	
Direction Buttons can be used to select the specific option.	
Press OK Button to view movies/pictures, listen to voice or music.	MOVIE

Button Function

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

T S V V V V	Right Button: Go to the next movie/picture.
	Left Button: Go to the previous movie/picture.
	Tele Button (Up Button): Digital Zoom in.
	Wide Button (Down Button): Digital Zoom out.
	OK Button: Enter to movie, picture, voice or music option
	menu.
Þ	RECORD/PLAY Button functions:
	1. Switch between Record and Playback modes.
	2. Return to the previous page.
	Movie Shutter Button:
U	Start playing the recorded movie or voice.

LCD Monitor Information

Indicators on the LCD screen while in Playback Mode:



	Movie	resolution Indicator	
	E	HD Resolution	
	a,	D1 Resolution	
	Ŀ	VGA	
(1)	Ŧ	QVGA	
	Picture Resolution Indicator		
		High Resolution	
	đ	Standard Resolution	
	ł	Low Resolution	
	Indicate the selected movie/picture is locked.		
(2)	C10C10Indicate the single movie/voice/MP3 is being repeated.C20C40Indicate all of the movies/voices/MP3 are being repeated.		
(2)			
Indicate the slide show is playing.		Indicate the slide show is playing.	
(3)	Curren	Current Number/ Total number of movie, picture, voice, or MP3.	
(4)		Magnification Indicator.	

Movie Playback

Operation	Display Screen
1. Use Direction Buttons to select the Movie option.	
2. Press OK Button to go to Movie Playback Mode.	MOVIE
3. Use Right/Left Buttons to go to the next or last movie.	5/10
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 OK Button to go to the movie option menu.	
8. Use Right/Left Buttons to select six options, Delete, Thumbnail, Lock, Repeat One, Repeat All, or Exit.	Delete

Delete Movies

Operation	Display Screen
1. Use Right/Left Buttons to select the Delete option ().	Delete
2. Press OK Button to go to the Delete menu.	4/17
3. Use Right/Left Buttons to select the movie.	
4. Use Up Button to delete all movies and Down Button to delete single movie.	
 Before a movie is deleted, a confirmation screen will appear; choosing "Yes" will execute the operation and "No" to cancel the operation. 	
6. Press OK Button to exit.	4/17 Yes No Delete All?



- 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 Right/Left Buttons to select the Thumbnail option (
 Press OK Button to view nine thumbnail movies. To play a movie, use Right/Left Buttons to select the movie and press OK 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
 Use Right/Left Buttons to select the Lock option (). Press OK Button to go to the Lock menu. 	
3. Use Right/Left Buttons to select the movie.	4/17
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 OK Button to exit. 	A ALL V ONE OX Return

Repeat Movies

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

Operation	Display Screen
1. Use Right/Left Buttons to select the Repeat One option (4)) or Repeat All option (4)).	
2. Press OK Button to start repeating.	Repeat One
	Repeat All

Picture Playback

Operation	Display Screen
 Use Right/Left Buttons to select the Picture option. Press OK Button to go to Picture Playback Mode. 	Co C
 Use Right/Left Buttons to go to the next or last picture. While the picture is selected, use Up/Down Buttons (Tele/Wide Buttons) () to magnify. To navigate the magnified picture, press OK Button to enter navigation mode. Use Direction Buttons to navigate the magnified picture. Press OK Button again to exit navigation mode. 	5/10
 6. Press OK Button to go to the picture option menu. 7. Use Right/Left Buttons to select five options, Delete, Thumbnail, Lock, Slideshow, or Exit. 	Delete

Delete Picture

Operation	Display Screen
1. Use Right/Left Buttons to select the Delete option ().	Delete
2. Press OK Button to go to the Delete menu.	4/17
3. Use Right/Left Buttons to select the picture.	
4. Use Up Button to delete all pictures and Down Button to delete single picture.	
 Before a picture is deleted, a confirmation screen will appear; choosing "Yes" will execute the operation, "No" will cancel the operation. 	
6. Press OK Button to exit.	
	4/17 Yes No Delete All?



- 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.

Thumbnail Function

Operation	Display Screen
1. Use Direction Buttons to select the Thumbnail option (
 While selecting Thumbnail option, press OK Button to view nine thumbnail pictures. To view a picture, use Direction Buttons to select the picture. Press OK 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 Right/Left Buttons to select the Lock option ().	
2. Press OK Button to go to the Lock menu.	
3. Use Right/Left Buttons to select the picture.	4/17
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	-113
operation, "No" will cancel the operation.	🔺 ALL 🔍 ONE 🔯 OKI Return
6. Press OK Button to exit.	

Make Slide Show

This function automatically repeats all pictures in order.

Operation	Display Screen
 Use Right/Left Buttons to select the Slide option (). Press OK Button to start the slide show; press it again to stop. 	Slideshow

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.
i 🔤 💿	Up/Down Buttons: Adjust the voice playback volume.
w 🗆 🛛 🕬	OK Button: Switch to voice option menu.

Operation	Display Screen
 Use Right/Left Buttons to select the Voice option. Press OK Button to go to Voice Playback Mode. 	VOICE
 Use Right/Left Buttons to go to the next or last voice recording. Press Movie Shutter Button () to start playing back the selected voice. Press it again to stop. Use Up/Down Buttons to adjust the volume. Press OK Button to go to the voice playback option menu. 	05/45 WAV 036 02:11:26
7. Use Up Button to select Delete option and Down Button to select Repeat option.	05/45 WAV 036 02:11:26

 8. Press Down 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. 	05/45 WAV 036 02:11:26
	05/45 WAV 036 02:11:26
 11. To delete a voice, use Right/Left Buttons to select the voice. 12.Press OK Button to go to the voice playback option menu. 13.Press Up Button to select Delete option. 14.Use Up Button to delete all voice recordings and Down Button to delete single voice recording. 15.Before a voice is deleted, a confirmation screen 	05/45 WAV 036 02:11:26
will appear; choosing "Yes" will execute the operation, "No" will cancel the operation. 16.Press OK Button to exit.	ALL ONE CKI Return

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
1. In Playback Mode, use Right/Left Buttons to select the Music option	Rest of the second seco
 Use Up/Down Buttons to locate MP3 you want to play, or press Right/Left Buttons to jump to the next/previous page. 	1. ONE OF THESE NIGHT 2. TAKE IT EASY 3. HOTEL CALIFORNIA 4. NEW KID IN TOWN 5. HEARTACHE TONIGHT 6. TEQUILA SUNRISE 7. DOOLIN-DALTON Sel Page OK Enter Exit
 Press Movie Shutter or OK Button to play MP3. Press Movie Shutter Button again to stop playing. Press Up/Down Buttons to adjust volume. 	05/45 02:11:26 SEASONS OF LOVE
 6. Press OK Button to go to repeat menu. 7. Press Down Button once to repeat current MP3 (くう). 8. Press Down Button twice to repeat all MP3 (くう). 9. Press OK Button to exit. 	05/45 02:11:26 SEASONS OF LOVE
	05/45 02:11:26 SEASONS OF LOVE

Listen to MP3 Music with earphone

MP3 stored in the camera can be played either by built-in speaker, or 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 OK Button to validate the setting.



Section 6 Viewing Movie on PC

View Movie on PC

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

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

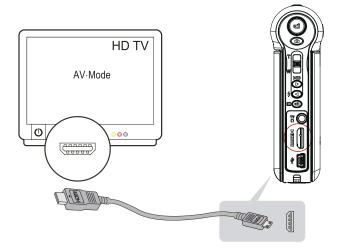
Share Movie

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

Section 7 Viewing Pictures and Movies on a TV

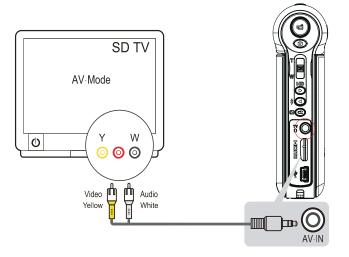
Connecting to a high-definition TV

- 1. Connect HDMI cable to a HD TV.
- 2. Set video input source of a TV to "HDMI" option.
- 3. The steps for viewing stored pictures and movie on a TV are exactly the same as for viewing them on the LCD monitor.



Connecting to a non-high-definition 16:9 (Wide) or 4:3 TV

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 OK 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 Panel does not work when the camera is connected to a television.

Section 8 Video File Converter

Bundled software CD contains ArcSoft MediaConverter that features video file converter to convert multiple video formats into compatible format with your camera. In this way, you can convert various video files formats and playback your favorite movies on your camera.

8.1 MediaConverter

To convert a video file:

- 1. Install ArcSoft MediaConverter (Refer to section 11).
- 2. Click [Start] → [Select Programs] → [ArcSoft MediaConverter] → [MediaConverter] .
- 3. MediaConverter main Screen will appear on your desktop.
- 4. Click [Add File] .



5. Select Video file you want to convert.

Look in: 🔯 Video		-		•
Name 🔺		Size	Туре	0
inia Oria Ooa-fruits_basket-pre	eview13		MOV File Video Clip Windows Med	dia Aud
©]smallredbean Txennnears OP C ile name: big_ctne		bps 20 x 240		dia Aud
Files of type: All Supp	orted Media File	Preview	<u> </u>	Cancel

6. You can preview your media files before converting. To preview media files, use the following control functions.



Make sure your media files can be previewed before converting.



7. Click on [Start] to begin converting files.



- 8. Task Report window will pop out after the task is completed.
- 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. (Refer to Section 10 Transferring Data to a Computer.)
- 11. After transferring the converted video to the camera, press RECORD/ PLAY button and select PLAYBACK mode to enjoy your favorite movie.

Section 9 Burning the Recorded Clip into DVD

Bundled software CD contains ArcSoft MediaImpression also featuers 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. Install ArcSoft MediaImpression (Refer to Section 11)
- 2. Click [Start] →[Select Programs] →[ArcSoft MediaImpression]
- 3. ArcSoft MediaImpression main Screen will appear on your desktop.
- 4. Click [Make Movie] .

rcSoft MediaImpression*	E <u>s</u> tras 🔔 🗖
Velcome to ArcSoft MediaIm hoose a media type or action from the options b	
Pictures	
Video	
All Media	
Import	
Make Movie	
🔮 WebCam	
Easy Fix	Welcome to ArcSoft MediaImpression. You can conveniently manage your media content and create projects here. Dick a button on the left
asy Print Easy Print	to get started.

ArcSoft MediaImpression®			Egtras _ 🗖 🗙
Make Movie Quickly and easily produce professional-looking	movies featuring your own photo and video files.		🗧 Go to Start Page
Show All Media Files 🖉 🚔			
Folders 📖 😥	D:\Documents and Settings\Jay\Desitop\ - 1	file(s))
My Documents 1 My Computer My Computer My Computer WIN985E (C-) WIN985E (C-) Computer My Computer My Comments My	2 VGA.AVI		
My Favorites My Computer H 🖉 🛩 WINDP(D:)			4
	Preview	Project 🔻 📙 S	ave As 🖉 Burn to Disc
Ready			2.06MB 1 file(s)

5. Click [Start] to start DVD burning.

Device:	
DVD menu style	Enter title
Playful	Untitled
Untitled	Enter date
Friday May 59 2000	Friday May 09 2008
Pag All Chagaen	Archive your source media files
(

Section 10 Uploading Video Files to YouTube

The bundled software CD contains **ArcSoft Medialmpression** which features uploading the recorded videos to YouTube. It will help you can share them with your family and friends on YouTube website. Also bundled **Youtube-Link software** inside camera which allows uploading your favorite video to Youtube web site easily.

10.1 ArcSoft MediaImpression

To upload video files to YouTube:

- 1. Install ArcSoft MediaImpression (Refer to Section 11)
- 2. Click [Start] → [Select Programs] →[ArcSoft MediaImpression]
- 3. ArcSoft MediaImpression main Screen will appear on your desktop.
- 4. Click [Video] Option.



5. Select the video file you want to upload and click [Upload to YouTube] option at the bottom menu.

ArcSoft MediaImpression*		Extres _ 🗖 🗙
Media Browser Please select media files and select an action.		Ϛ 🖷 Go to Start Page
Show Video Files Only 💽 🚅 Folders 🗰 💌	🖌 🕞 🗐 - 🙀 🛱 🗊	
	a.P0006.eri	G.IP0007.evi
Libraries		
Dimport Media Player Make Movie Up	kad to YouTube	gan Avisañ Open With Setup
Ready		6.65M8 1 file(s) selected / 2 file(s) .

6. If this is your first using this function, please follow the instruction on YouTube Setting Panel.

YouTube Setting	×
Setup Guide for Uploading Files to YouTube:	
MediaImpression needs your authorization before it can upload files to your YouTube account. You only need to set this once for each YouTube account. (To upload files to a different YouTube account, log onto that account and repeat these steps.)	
Step 1 :	
Please log onto your YouTube account first.	
Go To: http://www.youtube.com/login	
Step 2:	
Please click "Get Authorization" and then click "Allow" in the pop-up window to confirm.	
Get Authorization	
Step 3:	
When finished, click "Save" and return to the main page. Now you can upload videos to you YouTube account.	r
Save	

7. Go to http://www.youtube.com/login, then Log onto your YouTube account.

🗿 YouTube - Bioalcast Younelf - Microsoft Internet Explorer	
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G 1-1 · O · R 2 0 / Pau + 2004 0 0 - 3 1 0	
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Coogle C 😵 Co + 🔊 🖏 - 💿 + 😭 Booknador- 👰 36 blockel 🦈 Check - 🔥 AutoLink - 🔚	
Member Login	
Legis 1s access your acceust	
Legia Is access your account.	
YouTube Usemanne:	
YouTube Password	
Legin	
Etrat litenane Errat Personal	
Login with your Google account	
What is YouTube?	
YouTube is the home for video online	
Watch millions of videos	
 Share favorites with friends and family 	
 Connect with other users who share your interests 	
 Upload your videos to a worldwide audience 	
Sign up now to join the YouTube community.	
The The Constants	
Face The Candidates	
Addito Georgie Videos Kearth Your Account Help & Into You luke	
Videus Inton Help Center Safety Tips Company Infr/Press	
EavoritesSubscriptionsVideo Toolbox Copyright Notices TestTube Contact Prevalence Development#TesTorocopyright Contactions TestTube Dates	
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(If you do not have YouTube account, sign up here first.)

8. After you log onto your YouTube account, Click [Get Authorization] button below.

YouTube Setting ×
Setup Guide for Uploading Files to YouTube:
MediaImpression needs your authorization before it can upload files to your YouTube account. You only need to set this once for each YouTube account. (To upload files to a different YouTube account, log onto that account and repeat these steps.)
Step 1 :
Please log onto your YouTube account first.
Go To: http://www.youtube.com/login
Step 2 :
Please click "Get Authorization" and then click "Allow" in the pop-up window to confirm.
Step 3 :
When finished, click "Save" and return to the main page. Now you can upload videos to your YouTube account.
Save

Then, Click [Allow] Button shown on YouTube website.

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You Tube			Hi chicondesti	C ID Account His	tarr. 🔍 Hele Les Cut Ster 🔍
Broadcast Yourself "	Home	Videos	Channels	Community	
			Videos 💌 St	arch Hiffing	Upland
The application Medianeper Pyco went to grant permissions Reguested: Permissions Reguested: (Allow) De	Medialmorossion write	sion te upload videos s	o your account.		
Fyou want to grant permis App Name: Permissions Requested:	residen would like parters sten, just dick the button b Medialmoression write my	sion te upload videos s	o your account. Videos	× Scach	😨 face. The Candidates
Pyco went to grant permis App Name: Permissions Represent Allow De	residen would like parters sten, just dick the button b Medialmoression write my	sion te upload videos s		VeuTabe Constant and Testade Terra of Use Phoney Serve	Foce The Candidates

9. Click [Save] Button to upload the video.

ouTube Setting		>
Setup Guide for Uploadin	g Files to YouTube:	
account. You only need to se	authorization before it can upload files to your YouTube t this once for each YouTube account. (To upload files to a og onto that account and repeat these steps.)	
Step 1 :		
Please log onto your YouTube	e account first.	
Go To: http://www.youtube	.com/locin	
Step 2 :		
Please click "Get Authorization	n" and then click "Alow" in the pop-up window to confirm.	
	Get Authorization	
Step 3 :		
When Finished, dick "Save" an YouTube account.	nd return to the main page. Now you can upload videos to yo	ur.
	Save	

YouTube		×
Uploading	; the file "Video3.wmv".	
	2%	
	Cancel	

Section 11 Transferring Data to 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 "Install 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. Connect the computer and camera with the supplied mini USB 2.0 cable.
- 2. Default mode is Mass Storage Mode when the camera connects to PC.
- 3. Mass Storage Device mode is the Default mode, when camera is connected to computer.
- 4. You can transfer / drag movies, pictures, MP3 songs, data files from computer to your camera, or from camera to computer. Make sure you transfer data to the proper folder; MP3 songs to the MP3 folder, for example.

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.

PC Camera Mode

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

Installing Bundled Software

The CD-ROM supplied with this camera contains 4 pieces of software.

- ArcSoft Medialmpression is a user-friendly application that helps you read, edit and organize images, video and MP3 files.
- ArcSoft MediaConverter can convert multiple video formats into compatible format for using on your camera.
- Adobe 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.
- Device Drivers include :
 - (1) Video Codec for viewing movies correctly on PC
 - (2) Webcam Driver

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 software application you want to install from the list, then click **Install Application Software**. Follow the on-screen instructions to complete the installation.

Section 12 Specifications 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	F3.2 (f = 7.0mm)
Focus Range	200cm~infinite (Normal Mode)
	Center: 20 cm (Macro Mode)
Digital Zoom	8X
Shutter	Electronic
LCD monitor	2.4"LCD
Storage Media	Built-in 64M Memory (partial memory is used for Firmware code);
	SD Card Slot support
Image Resolution	Still image 3744x2808 (11M Pixels)
	2592x1944 (5M Pixels)
	1600x1200 (2M Pixels)
Movie Resolution	HD 1280 x 720 pixels 30 fps
	D1 720 x 480 pixels 30 fps
	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	ON/Off/Red Eye Reduction/Light ON/Auto
File Format	Picture: JPEG
	Movie: AVI (H.264)
	Voice: WAV
	Music: MP3
Image play	Single Image/Thumbnails/Slideshow
PC Interface	Mini USB 2.0 Port
TV out	NTSC/PAL Selectable
Battery	Lithium-ion Rechargeable Battery
Dimension	103(H) * 65(W) * 30(D) mm
Weight	115g (without battery)

System Requirement

Vindows 2000/XP/Vista
Pentium III 800 MHz above
56 MB RAM
CD ROM
GB free HDD space
vailable USB port
6-bit Color Display



Note

The LCD screen is manufactured using extremely high-precision technology so over 99.99% of the pixels are operational for effective use. Hoever, some tiny black and/or bright dots (white, red, blue or green) may appear on the LCD screen. These dots are a normal result of the manufaturing process, and do not affect the recording.