Instruction Manual

HITACHI
Inspire the Next

DZ-HV1079E
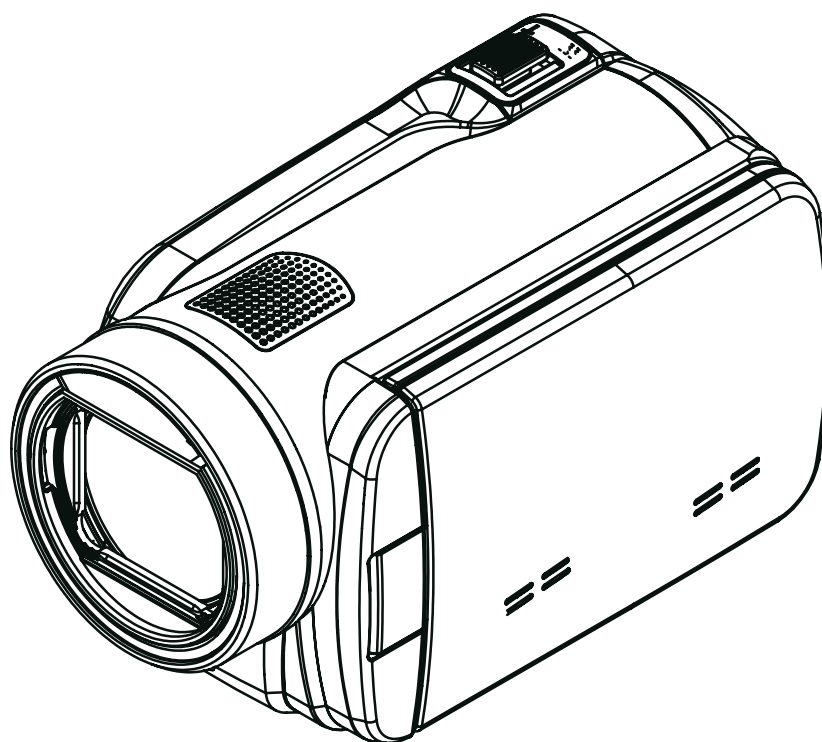
Contents

Section 1
Getting to Know Your Camera

Overview

The camera with 10 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 16 mega-pixels can also be delivered smoothly. With a color LCD monitor, users can compose images and examine them easily.

The camera features 3" LCD touch panel which is an ideal platform for you to operate your camera. The menu options are accessible with your finger. With the touch panel, you can select the options directly and quickly.

The camera also features movie recording at an HD resolution of 1920x1080. You can also connect it to an HDTV via an HDMI cable, and easily playback the recorded high-definition videos on the wide screen HDTV.

Moreover, the camera has an advanced uploading feature. With the exclusive built-in **Internet Direct** application, you can upload the videos captured by the camera to Internet more effortlessly.

ISO sensitivity and color balance can either be adjusted automatically or changed manually. A 10x digital zoom helps you to control over the movies and pictures you take.

The varied effect options, such as Time Lapse and Slow Motion, make recording more fun.

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

Hitachi cannot compensate for any damages caused when recording is not made normally or recorded contents cannot be played back because of a defect in the digital camera device or memory card. Hitachi cannot be responsible for your recorded video and audio.

If you or a third party make a mistake when handling this digital camera device or memory card, etc., the recorded contents may be lost. Hitachi cannot be responsible for compensation for damage due to loss of recorded contents.
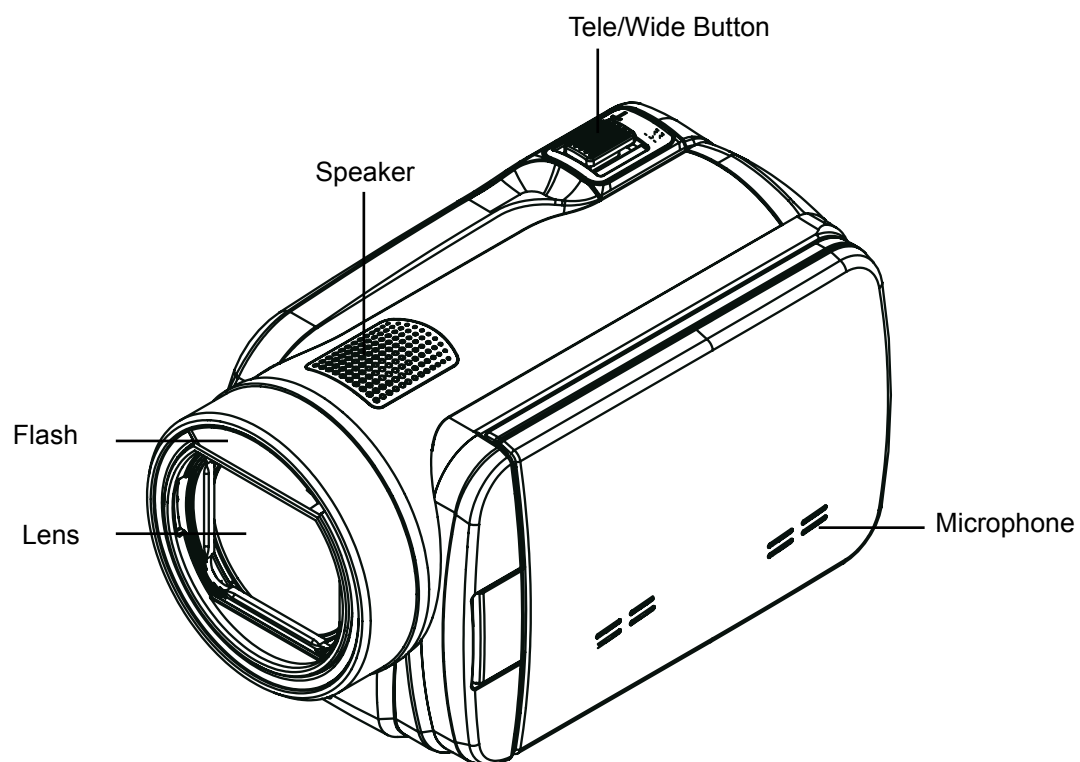
> ### *Note*
>
> *Partial memory of the built-in memory is used for the camera's Firmware code.*
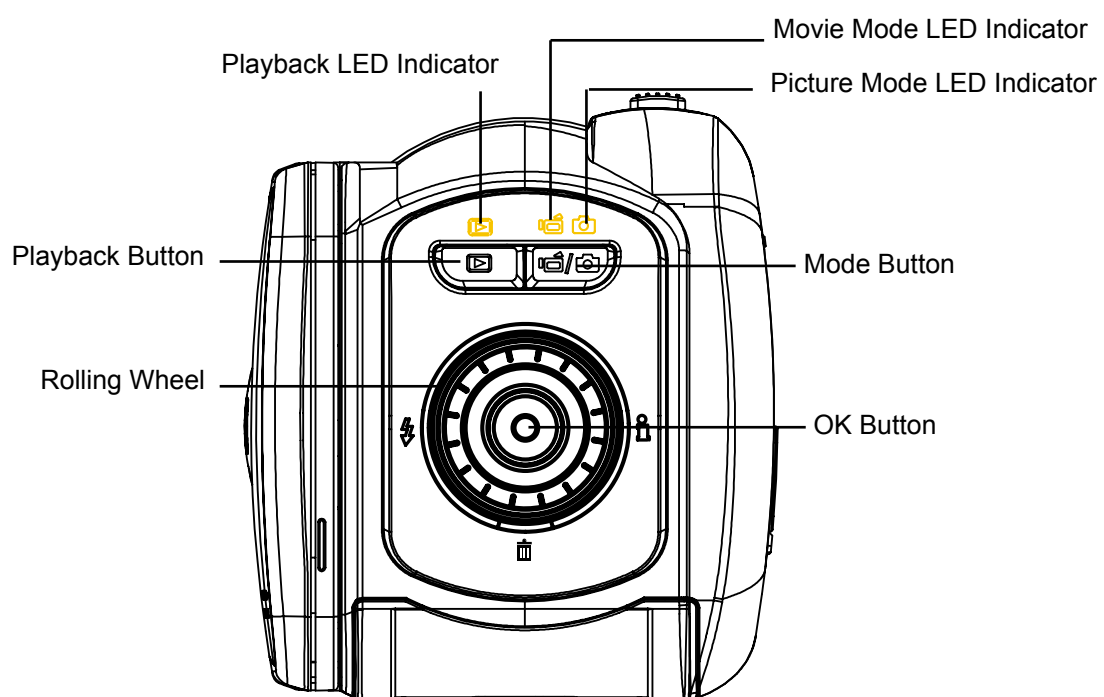
Standard Accessories

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 (Software and User's Manual)
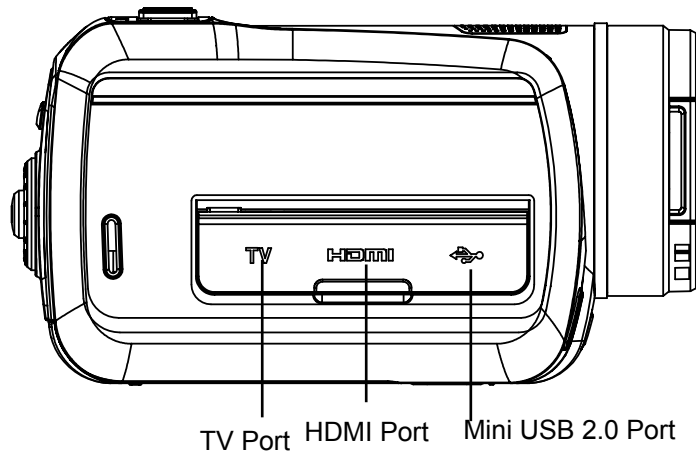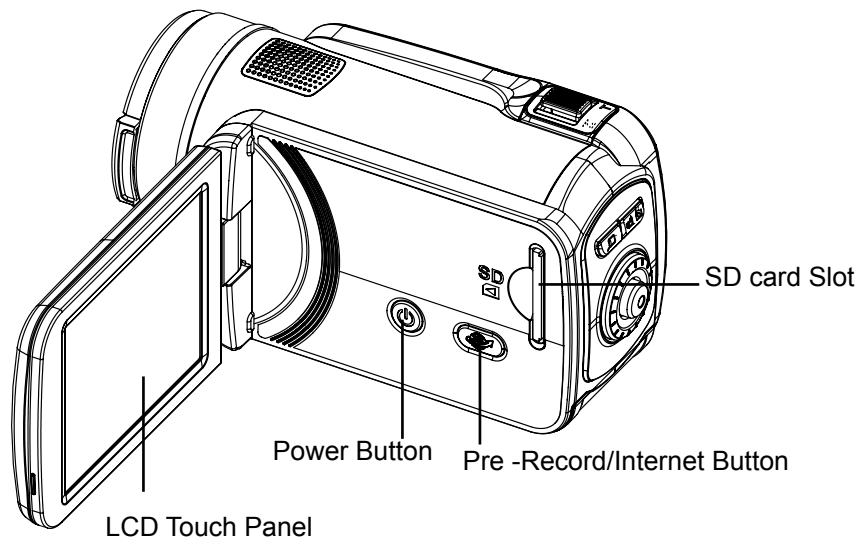
- Cloth Bag

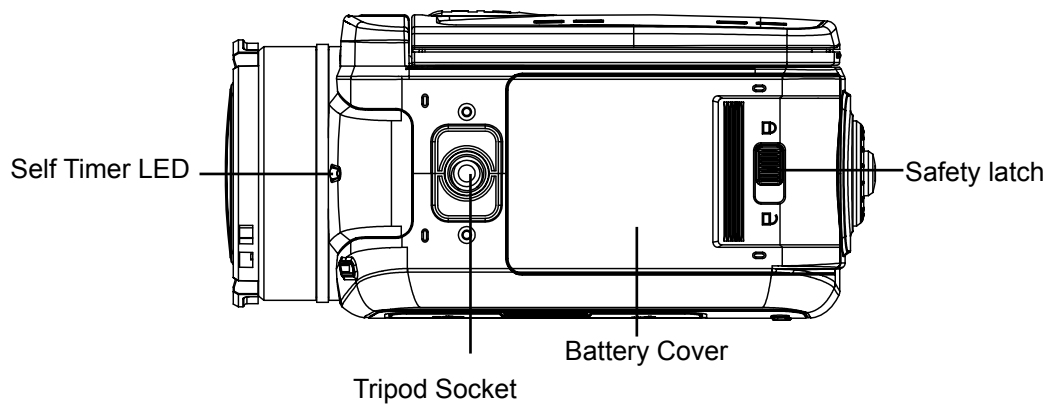- Lens Cover Set (Lens cover and Strap)

Front View

Tele/Wide Button

Speaker

Flash

Lens

Microphone

Rear View

Movie Mode LED Indicator

Playback LED Indicator

Picture Mode LED Indicator

Playback Button

Mode Button

Rolling Wheel

OK Button

Side View

SD card Slot

Power Button

Pre -Record/Internet Button

LCD Touch Panel

TV

HDMI

TV Port   HDMI Port   Mini USB 2.0 Port

Bottom View

Self Timer LED

Safety latch

Battery Cover

Tripod Socket

Loading the Battery

Before using the camera, users must load the Lithium-ion rechargeable battery come within the package.

1. Slide the safety latch to the unlocked position and open the battery cover.
2. Insert the battery according to the correct polarity marks (+ or -).
3. Close the battery cover firmly, and slide the safety latch to the locked position.
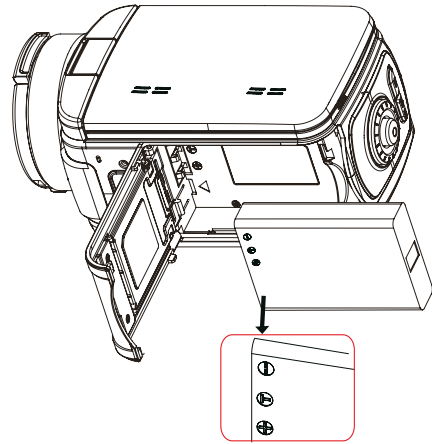
## Inserting and Removing an SD Card (Optional)

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

1. Insert the memory card into the slot. Please refer to the figure on the right side.
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.
4. Recommended memory capacity: 1GB or above.
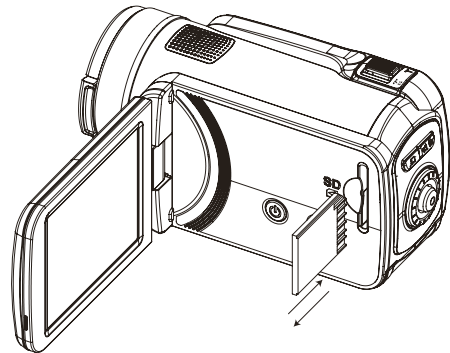
Note

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

• *Protecting Data on an SD Card: SD Card is read-only when it is locked. No pictures or movies can be recorded when the SD card is locked. Make sure the lock is on the writeable position before recording any media.*

LOCK   LOCK

Writeable   Write-Protected
position   Position
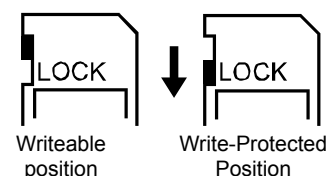
Turning the Camera On and Getting Started

- 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 record movies: Press Mode Button or touch [icon] on the screen to switch to the Movie Record mode .(The Movie Mode LED Indicator [icon] will light up.) Press OK Button to record movies.

- To take a picture: Press Mode Button or touch [icon] on the screen to switch to the Picture Record mode. (The Picture Mode LED Indicator [icon] will light up.) Press OK Button halfway down until the focusing frame turns from white to green. Then, press it fully down to take pictures.

Focusing Frame: White	Focusing Frame: Green
[image]	[image]
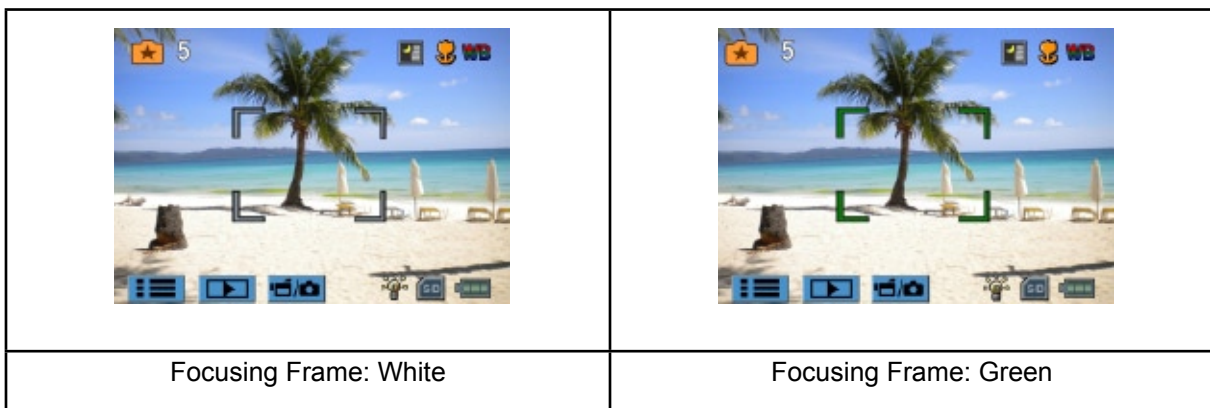
- To take a picture during movie recording: When recording movies, press Mode Button ([icon]) to capture the image. The Dual record icon([icon]) appears on the LCD monitor.

- To view stored movies and pictures: Press Playback Button or press [icon] on the screen to switch to the Playback mode. (The Playback LED Indicator [icon] will light up.) Press Mode Button or touch [icon] on the screen to switch between Movie Preview Screen and Picture Preview Screen.
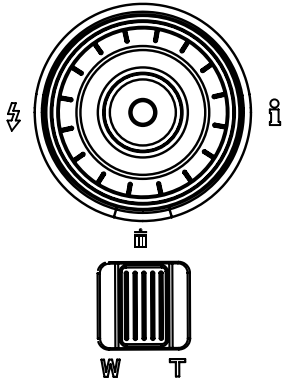
Turning the Camera Off

- 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.

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7

Section 3
Enjoying the Record Mode

Button Function

	Rolling Wheel: Rotate to move between the wheel menu options.
	Right Button: LCD Information ON/OFF. In Record menu, press to switch to the submenu.
	Left Button: Flash Auto/Red-Eye-Reduction/Digital Light/ Flash OFF. In Record menu, press to return to the main menu.
	Up Button: Move between the option items.
	Down Button: Delete the current or all movies/pictures. Move between the option items.
	OK Button:
	1. Validate the setting.
	2. In Movie Record Mode, press to take movies. To stop recording, press it again.
	3. In Picture Record Mode, press to take pictures.
	Tele Button : Zoom In
	Wide Button : Zoom out
	Playback Button:
	1. Switch between Record / Playback Mode.
	2. For quick review, press it after recording.
	3. In Record menu, press to exit.
	Mode Button:
	1. Switch between Movie Mode and Picture Mode.
	2. When recording movies, press to capture the image.
	Power Button: Press down for one second to turn on or turn off the camera.
	Pre-Record/Internet Button: In Record Mode, press to activate the function that the movies are recorded 3 seconds before the OK Button is pressed.

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LCD Monitor Information

The indicators shown below may display on LCD when movies and pictures are recorded:

(1)	Movie Resolution	
	FH+	FHD (1080i 60)
	FH	FHD (1080p 30)
	HD+	HD (720p 60)
	HD	HD (720p 30)
	SD	VGA (4:3)
	(slow motion icon)	Slow Motion (Record movies at 320x240 resolution.)
	Picture Resolution	
	(camera ★★★)	High (16 MP)
	(camera ★★)	Standard (10 MP)
	(camera ★)	Low (3 MP)
(2)	00:05:30	Recording time of the movie that can still be taken at current resolution
	71	Number of images that can still be taken at current resolution
(3)	(self-timer icon)	Self-timer enabled
	(camera icon)	Dual Record
(4)	((手))	Stabilization
(5)	PRE	Pre-Record Mode
	24H	Time Lapse

(6)	Scene		
	👩	Skin	
	🌙	Night	
	👩	Backlight	
(7)	🌷	Macro Position Focusing	
(8)	**WB**	Manual White Balance	
(9)		Motion Detection	
(10)		Zoom meter: 1X~100X (10X Optical zoom and 10X Digital zoom)	
(11)	☰	Record Menu	
(12)	▶	Playback Mode	
(13)	🎥/📷	Movie/Picture Record Mode	
(14)	Movie Mode		
	💡	Digital Light	
	Picture Mode		
	⚡A	Flash Auto	
	⚡👁	Red Eye Reduction	
	💡	Digital Light	
	🚫	Flash Off	
(15)	**SD**	SD Card Inserted	
(16)	🔋	Battery: full power	
	🔋	Battery: medium power	
	🔋	Battery: low power	
	🔋	Battery: empty power	
	⚡	DC power mode	

Note

Scene: B/W / Classic / Negative effect can be previewed immediately without indicator on the LCD.

Movie Recording

- In Movie Record Mode (The Movie Mode LED Indicator ▮☐ lights up), press OK Button to start recording. When a movie is being recorded, a time indicator will display on the LCD monitor. To stop recording, press OK Button again.

- Optional function

  1. Dual record: press Mode Button (📷) to capture the image. The Dual record icon(📷) appears on the LCD monitor.

- Press Playback Button to view the recorded movies.

- Five resolution settings are available:

Video Quality	
FH+	FHD (1080i 60)
FH	FHD (1080p 30)
HD+	HD (720p 60)
HD	HD (720p 30)
SD	VGA (4:3)

💡 *Note*

- *The image resolution captured during movies recording is the same as the video resolution.*
- *The flash can not be used when capturing image during movies recording.*

Using the Pre-Record Function

- The Pre-record function ensures that you will not miss any critical recording opportunities, The movies are recorded 3 seconds before the OK Button is pressed.

- To use the Pre-Record function:

  1. Press the Pre-Record Button (🌐) in Record Mode. The Pre-Record icon(▮PRE) appears on the LCD monitor.

  2. Aim the camera at the subject and position it securely.

  3. Press the OK Button to start recording. (The camera records 3 seconds before you actually press the OK Button.)

- To use the function again, set it again.

💡 *Note*

- *Time Lapse function can not be used when the Pre-Record function is activated.*

Picture Recording

- In Picture Record Mode (The Picture Mode LED Indicator ⬚ lights up), press OK Button halfway down until the focusing frame turns from white to green. Then, press it fully down to take a picture.

- Press Playback Button to view the picture.

- Three resolution settings are available:

Image Quality	
⬚	**High Quality:**16 Mega Pixels
⬚	**Standard Quality:**10 Mega Pixels
⬚	**Low Quality:**3 Mega Pixels

Using Flash or Digital Light Function

- This camera has three flash settings and one setting to allow you to extend the brightness of the objects that are dark or in the shadow. Using Left Button to change the settings.

  1. **Flash Auto (⚡A):** The flash fires automatically according to light conditions. Use this mode for general photography. (Picture Recording Only)

  2. **Red Eye Reduction(⚡):** The pre-flash will fire to reduce the red-eye effect. (Picture Recording Only)

  3. **Digital Light (☀):** To extend the dynamic range for backlight and high contrast sense so that the objects will be brighter and clearer.

  4. **Flash Off (⚡):** 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). (Picture Recording Only)

Note

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

Using Zoom Function

- The zoom magnifies images when recording movies or taking pictures.

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

 2. It can be set from 1X~100X (10X Optical zoom and 10X Digital zoom).

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Options for Record Menu

Movie Record Mode Menu

Movie Resolution	White Balance	Scene	Effect
• FHD (1080i 60) • FHD (1080p 30) • HD (720p 60) • HD (720p 30) • VGA (4:3)	• Auto • Daylight • Fluorescent • Tungsten	• Auto • Skin • Night • Backlight • B/W (Black/White) • Classic • Negative	• Stabilization • Macro Mode • Motion Detect. (Motion Detection) • Slow Motion • Time Lapse

Picture Record Mode Menu

Picture Resolution	White Balance	Scene	Effect
• High (16MP) • Std (10MP) • Low (3MP)	• Auto • Daylight • Fluorescent • Tungsten	• Auto • Skin • Night • Backlight • B/W (Black/White) • Classic • Negative	• Self-Timer • Macro Mode • ISO

Operations for Record Mode

Operation	Screen
1. Touch ▦(on-screen icon) in Record Mode. The wheel menu will show on the screen.	
2. Scroll the wheel menu on the screen lightly with your finger to move between the options, which are Resolution, Scene, Effect, White Balance, and Setting. 3. Submenu will pop up while stopping on each option. 4. Touch to select the specific option you want to adjust, then touch [OK] to validate the setting. 5. Or touch the Return icon (⤶) to exit without any change. 6. Touch P↑/ P↓ on the screen to change between the pages.	

Movie Resolution

Five resolution settings are available.

- **FHD(1080i 60):** Record movies at 1920x1080i 60 resolution.
- **FHD(1080p 30)**: Record movies at 1920x1080p 30 resolution.
- **HD(720p 60):** Record movies at 1280x720p 60 resolution.
- **HD(720p 30):** Record movies at 1280x720p 30 resolution.
- **VGA(4:3):** Record movies at 640x480p 30 resolution.

Operation	Display Screen
1. In Movie Record Mode, touch ▤(on-screen icon) to show the wheel menu. 2. Scroll and stop on [Resolution]. The submenu of Resolution pops up. 3. Touch the desired option. 4. Touch [OK] to validate the setting.	

Picture Resolution

Three resolution settings are available.
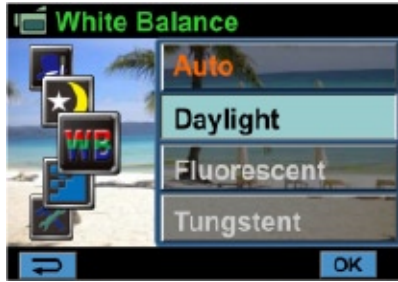
- **High(16MP):** Shoot pictures at 4608x3456, 16MP quality.
- **Std(10MP)**(Standard)**:** Shoot pictures at 3644x2748, 10MP quality.
- **Low(3MP):** Shoot pictures at 2048 x 1536, 3MP quality.

Operation	Display Screen
1. In Picture Record Mode, touch ▤(on-screen icon) to show the wheel menu. 2. Scroll and stop on [Resolution]. The submenu of Resolution pops up. 3. Touch the desired option. 4. Touch [OK] to validate the setting.	

White Balance

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

• **Auto:** The camera automatically adjusts white balance.

• **Daylight:** Under outdoor condition.

• **Fluorescent:** Under fluorescent light condition.

• **Tungsten:** Under tungsten light condition.

Operation	Display Screen
1. In Movie/Picture Record Mode, touch ▦(on-screen icon) to show the wheel menu. 2. Scroll and stop on [White Balance]. The submenu of White Balance pops up. 3. Touch the desired option. 4. Touch [OK] to validate the setting.	

Scene

You can select the mode according to the scene condition.

• **Auto:** Shoot without any special effect on the image.

• **Skin:** Shoot with an effect that makes skin tones more natural.

• **Night**: Use Night Mode for night scenes or low light conditions.

• **Backlight:** You can take shots when the bright light is behind the subject.

• **B/W** (Black/White)**:** The image is converted to black-and-white.

• **Classic:** The image is converted to a sepia look.

• **Negative:** The image is converted as the negative of the normal

Operation	Display Screen
1. In Movie/Picture Record Mode, touch ▦(on-screen icon) to show the wheel menu. 2. Scroll and stop on [Scene]. The submenu of Scene pops up. 3. Touch the desired option. 4. Touch [OK] to validate the setting.	

💡 *Note*

To avoid blurry pictures, place the camera on a flat, steady surface, or use a tripod when taking shots in the Night Mode.

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Movie Effect

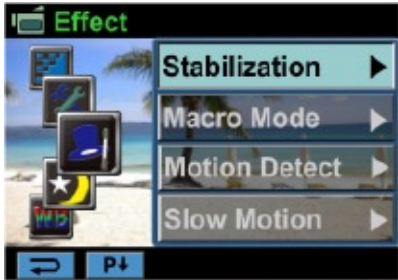| Operation	Display Screen
1. In Movie Record Mode, touch ▤ (on-screen icon) to show the wheel menu. 2. Scroll and stop on [Effect]. The submenu of Effect pops up. 3. Touch the desired Effect option to enter its option screen. 4. The Movie Effect submenu contains 5 options-- Stabilization, Macro Mode, Motion Detection, Slow Motion, and Time Lapse --for you to adjust the camera's settings.	

Stabilization

Record with an effect of reducing camera shake to result in more stable videos.

Operation	Display Screen
1. In the Effect submenu, touch [Stabilization] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

> 💡 *Note*
>
> *Stabilization doesn't apply on FHD (1080i 60).*

Macro Mode

- **Auto:** The camera adjusts the focus automatically.
- **Macro(🌷)**: The camera adjusts the focus with priority on close- up objects. Shoot in Macro mode when the objects are located in 1 cm~Infinite (setting to the Wide side)/60 cm~Infinite (setting to the Tele side).

Operation	Display Screen
1. In the Effect submenu, touch [Macro Mode] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

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Motion Detection

Record videos automatically when the camera detects a movement.

Operation	Display Screen
1. In the Effect submenu, touch [Motion Detect.] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting. 4. Camera will start to record video automatically if it detects a movement. Stop recording if it does not detect a movement.	

Slow Motion

Record videos with slow motion effect. When the video is played, the playback time will be longer than the actual recording time.

Operation	Display Screen
1. In the Effect submenu, touch [Slow Motion] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

Time Lapse

Record still images at specific intervals you can set and play them as one movie file.

- **Off:** Disable Time Lapse.
- **1 Sec.:** Record one frame per second.
- **3 Sec.**: Record one frame every 3 seconds.
- **5 Sec.:** Record one frame every 5 seconds.

Operation	Display Screen
1. In the Effect submenu, touch [Time Lapse] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

Note

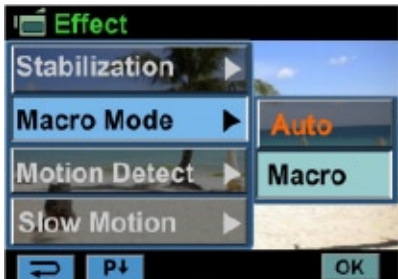- *Stabilization function can not be used when Time Lapse function is activated.*

Picture Effect

Operation	Display Screen
1. In Picture Record Mode, touch ▦ (on-screen icon) to show the wheel menu. 2. Scroll and stop on [Effect]. The submenu of Effect pops up. 3. Touch the desired Effect option to enter its option screen. 4. The Picture Effect submenu contains 3 options --Self Timer, Macro Mode, and ISO-- for you to adjust the camera's setting.	

Self-Timer

The self-timer allows you to take pictures with a ten-second time delay. The self-timer light on the front of the camera will also blink. The speed of blinking will increase just before the picture is taken.

Operation	Display Screen
1. In the Effect submenu, touch [Self-Timer] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

Macro Mode

- Auto: The camera adjusts the focus automatically.
- Macro(🌷): The camera adjusts the focus with priority on close- up objects. Shoot in Macro mode when the objects are located in 1 cm~Infinite (setting to the Wide side)/60 cm~Infinite (setting to the Tele side).

Operation	Display Screen
1. In Effect submenu, touch [Macro Mode] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

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ISO

The camera adjusts the ISO sensitivity of its images automatically. Three manual ISO sensitivity settings are available. (800/1600/3200) The larger the number is, the higher the ISO sensitivity is set to. Select a small number to shoot a smoother image. Select a large number to shoot an image in a dark location or to shoot a subject moving at high speed.

Operation	Display Screen
1. In the Effect submenu, touch [ISO] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

Note
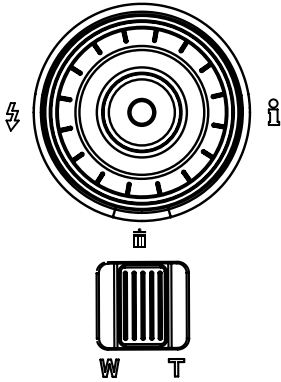
The image may become noisy when the ISO number is large.

Section 4
Enjoying the Playback Mode

Button Function

The Buttons have the following functions in Playback Mode.

	Rolling Wheel: Rotate to move to the previous/next movie/ picture. **Right Button:** LCD Information ON/OFF; Fast forward. **Left Button:** Fast rewind. **Down Button:** Delete the current movie/picture or all movies/ pictures. **OK Button:** 1. Enter Movie/Picture Playback Mode. 2. Validate the setting. 3. In Picture Playback Mode, press to start/stop the slideshow. **Tele Button :** Zoom In **Wide Button :** Zoom out
	Mode Button: 1. Switch between Movie Preview Screen and Picture Preview Screen.
	Playback Button: 1. Switch between Record /Playback Mode. 2. Return to the previous screen.
	Pre-Record/ **Internet Button:** In Movie Playback Mode, press to select the current movie to upload to Internet.

LCD Monitor Information

Indicators on the LCD screen while in Playback Mode:

Playback Preview Screen

Movie Playback Mode	Picture Playback Mode

	Movie Resolution	
(1)	**FH+**	FHD (1080i 60)
	FH	FHD (1080p 30)
	HD+	HD (720p 60)
	HD	HD (720p 30)
	SD	VGA (4:3)
	(slow motion icon)	Slow Motion (320x240)
	Picture Resolution	
	(camera icon)	High (16 MP)
	(camera icon)	Standard (10MP)
	(camera icon)	Low (3MP)
	(camera icon)	Dual Record (The image resolution captured during movies recording is the same as the video resolution.)

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(2)	**0003/0005**	Current number/ Total number of picture/movie.
(3)		Movie/Picture Preview Screen On
(4)		Return to the previous screen/ Switch to Record Mode
(5)	**00:06:10**	Movie playback time counter
(6)		Delete
(7)		Upload selected movies to Internet
(8)		Volume
(9)		Previous movie/picture
(10)		Movies fast rewind
(11)		Movies Play
		Movies Pause
(12)		Movies fast forward
(13)		Next movie/picture
(14)		Slideshow
		Slideshow stop
(15)		Magnification Indicator

Operations for Playback Mode

The Playback Mode is for viewing and managing movies and pictures on the built-in memory or on an SD Card.

Operation	Display Screen
1. Press Playback Button (⬚) or press ▶ on the screen to switch to the Playback mode.	
2. In the Playback preview screen, press Mode Button or touch 📷/🎥 on the screen to switch between the Movie mode and the Picture mode. 3. Sweep to the left to go to the previous picture/movie; sweep to the right to go to the next picture/movie. 4. Touch on the picture/movie to go to Picture/Movie Playback Mode.	

Movie Playback
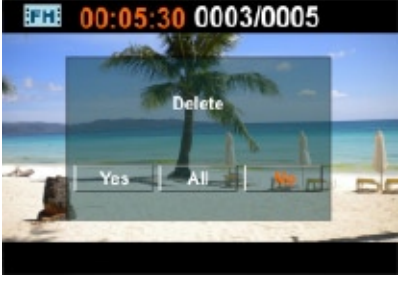
Operation	Display Screen
1. When in Movie Playback mode, touch ⏸/▶ to play or pause the movies. 2. Sweep to the left or touch ⏮ to go to the previous movie; sweep to the right or touch ⏭ to go to the next movie. 3. While playing movies, touch ◀◀ /▶▶ to fast rewind/forward. 4. Touch 🔊+ to increase the volume; touch 🔊- to reduce the volume. 5. Touch (↩) to exit. 6. Press Internet Button to select the existing movies to upload to Internet.	

💡 *Note*

When the LCD is idle for a few seconds, the playback function icons will disappear automatically.

Delete Movies

Operation	Display Screen
1. Touch 🔲 to go to the Delete option screen.	**FH** 00:05:30 0003/0005 🔲
2. Touch [Yes] to delete the current movie or [No] to cancel the operation and to exit; touch [All] to delete all movies. 3. Before all movies are about to be deleted, a confirmation screen will appear; touch [Yes] to execute the operation and [No] to cancel the operation.	**FH** 00:05:30 0003/0005 Delete Yes All No
	FH 00:05:30 0003/0005 Delete All Yes No

💡 *Note*

- *If a memory card has been inserted, you can only delete those movies stored on the card.*
- *Movies on a written-protected memory card cannot be deleted.*

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Picture Playback

Operation	Display Screen
1. When in the Picture Playback mode, sweep to the left or touch ◀ to go to the previous picture; sweep to the right or touch ▶ to go to the next picture. 2. While the picture is selected, press on the screen as well as go up to enter Magnification Mode.(The magnification Indicator appears on the screen) 3. In the Magnification Mode, sweep to the top to zoom in or to the bottom to zoom out. 4. To navigate the magnified picture, press on the screen and move as well. (The inner Magnification Indicator turns red) 5. Press OK Button or sweep to the bottom to exit the magnification mode. 6. Touch / to start or to stop the slide show. 7. Touch ( )to exit.	0003/0005

💡 *Note*

When the LCD is idle for a few seconds, the slideshow function icons will disappear automatically.

Delete Picture

Operation	Display Screen
1. Touch ▥ to go to the Delete option screen.	⭐ 0003/0005 🗑
2. Touch [Yes] to delete the current picture or [No] to cancel the operation and to exit; touch [All] to delete all pictures. 3. Before all pictures are deleted, a confirmation screen will appear; touch [Yes] to execute the operation and [No] to cancel the operation.	⭐ 0003/0005 Delete Yes All No ⭐ 0003/0005 Delete All Yes No

💡 *Note*

- *If a memory card has been inserted, you can only delete those pictures stored on the card.*

- *Pictures on a written-protected memory card cannot be deleted.*

EN

Setting Menu

Operation	Display Screen
1. Touch ▦(on-screen icon) when in Record Mode. The Record menu wheel will show on the screen. 2. Scroll and stop on [Setting]. The submenu of Setting pops up. 3. The Setting submenu contains 6 options for configuring your camera setup. They are Sound (operation sound), TV, Language, Time Setting, Format, and Default Setting. 4. Touch P↑/ P↓ on the screen to change between the pages.	

Sound

Enable or disable the keypad tone and the operation sound.

Operation	Display Screen
1. In the Setting submenu, touch [Sound] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

TV

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

Wrong TV system setting may cause image flickers.

• **NTSC(60Hz):** USA, Canada, Japan, South Korea and Taiwan, etc.

• **PAL(50Hz):** UK, Europe, China, Australia, Singapore and Hong Kong, etc.

Operation	Display Screen
1. In the Setting submenu, touch [TV] to enter the option screen. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	

Language

Use this option to select the language of the user interface.

Operation	Display Screen
1. In the Setting submenu, touch [Language] to enter the option screen.Touch P↑/ P↓ on the screen to change between the pages. 2. Touch the desired option. 3. Touch [OK] to validate the setting.	
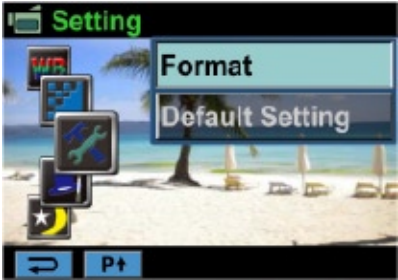
Time Setting

Operation	Display Screen
1. In the Setting submenu, touch [Time Setting] on the screen to go to the Time Setting menu.	
2. Touch Year, Month, Day, Hour, or Minute to set. 3. Adjust the numeric value by touching ▲/▼ . 4. Touch [OK] to validate the settings.	

Format

Yes: Format the built-in memory (When there is no SD card in the camera) / SD Card (When there is an SD card in the camera).

No: Do not format the built-in memory (When there is no SD card in the camera) / SD Card (When there is an SD card in the camera).

Operation	Display Screen
1. In the Setting submenu, touch [Format] on the screen to go to the format confirmation screen	
2. Touch [Yes] to execute the operation and [No] to cancel the operation.	
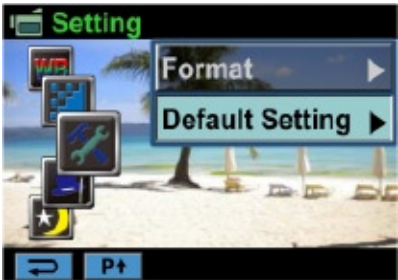
Note

All the data will be erased if the SD card is formatted. Make sure all the data are copied to your PC before formatting the SD card.

EN

Default Setting

To restore the default factory setting, select this option.

Operation	Display Screen
1. In the Setting submenu, touch [Default Setting] on the screen to go to the Default Setting confirmation screen.	
2. Touch [Yes] to execute the operation and [No] to cancel the operation.	

The following table indicates the camera's default settings

Setting	Default Factory Setting
Resolution	FHD (1080i 60) for Movie Std (10MP) for Picture
Scene	Auto
Stabilization	Off
Macro Mode	Auto
Motion Detection	Off
Slow Motion	Off
Time Lapse	Off
White Balance	Auto
Self Timer	Off
ISO	Auto
Sound	On
TV	Depends on shipping area
Language	Depends on shipping area
Volume	Level 6

EN

Section 6
Viewing Pictures and Movies on TV

Connecting to a High-Definition 16:9(Wide) TV

1. Connect the HDMI cable to your camera's HDMI Out port.

2. Connect the other end of the cable to a television.

3. Set the video input source of your TV to " HDMI."
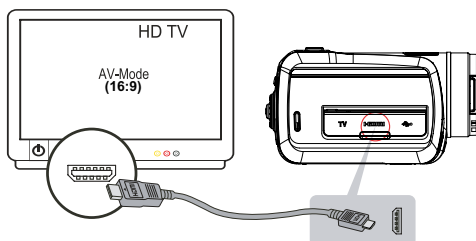
4. Use the buttons to view the stored pictures and movies on the TV.

Operation	On TV
1. Press OK Button to play movies and press it again to pause. 2. While playing movies, press Right/Left Buttons to fast forward/rewind and then release the button to stop. 3. Use Up/Down Buttons to adjust the volume. 4. In the Picture Playback mode, use Tele Button to magnify the picture. To navigate the magnified picture, use Direction Buttons to navigate the magnified picture. Press OK Button to exit the magnification mode.	

Connecting to a non-high-definition 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. Use direction button to view stored pictures and movie on a TV.
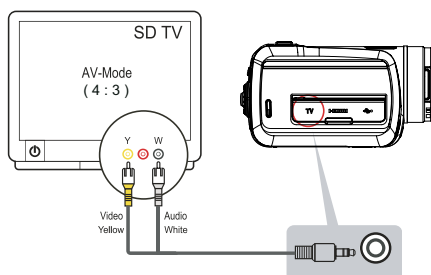
Section 7
Viewing Pictures and Movies on PC

Installing Bundled Software

The CD-ROM supplied with this camera contains 3 pieces of software.

• **ArcSoft MediaImpression** is a user-friendly application that helps you managing your media, burning your video into DVD, and uploading your videos to YouTube easily.

• ArcSoft MediaConverter is a powerful application that converts multiple video formats into compatible format with 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.

To install the bundled software:

1. Insert the CD-ROM into your computer's CD-ROM drive. The autorun screen appears.

2. Click "**Install Application Software"**. Follow the on-screen instructions to complete the installation.

Note

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

Transferring Pictures or Movies to a Computer

You can transfer pictures or movies stored on your camera to a computer and send them in e-mails to friends or post them on the websites.

To do this you should:

1. Connect the computer and camera with the supplied mini USB 2.0 cable. The LED will light up and blink.

2. After the LED stops blinking, movies and pictures can be found on your computer at "My Computer\ Removable Disk\DCIM\100MEDIA".

3. Under this folder, you can view, delete, move, or copy any movie/picture you want.

4. Use the bundled ArcSoft application software to edit the movies or pictures.

Section 8
Burning the Recorded Clip into a DVD

The bundled software CD contains ArcSoft MediaImpression which can be used to burn movie clips onto a DVD. You can share this DVD movie with your family or friends by using a regular DVD player.

To create a DVD:

1. Install ArcSoft MediaImpression (Refer to Section 7).

2. Click on Windows [Start] →[(All) Programs] →[ArcSoft MediaImpression].

3. The ArcSoft MediaImpression main screen will appear on your desktop.

4. Click on [Videos] .
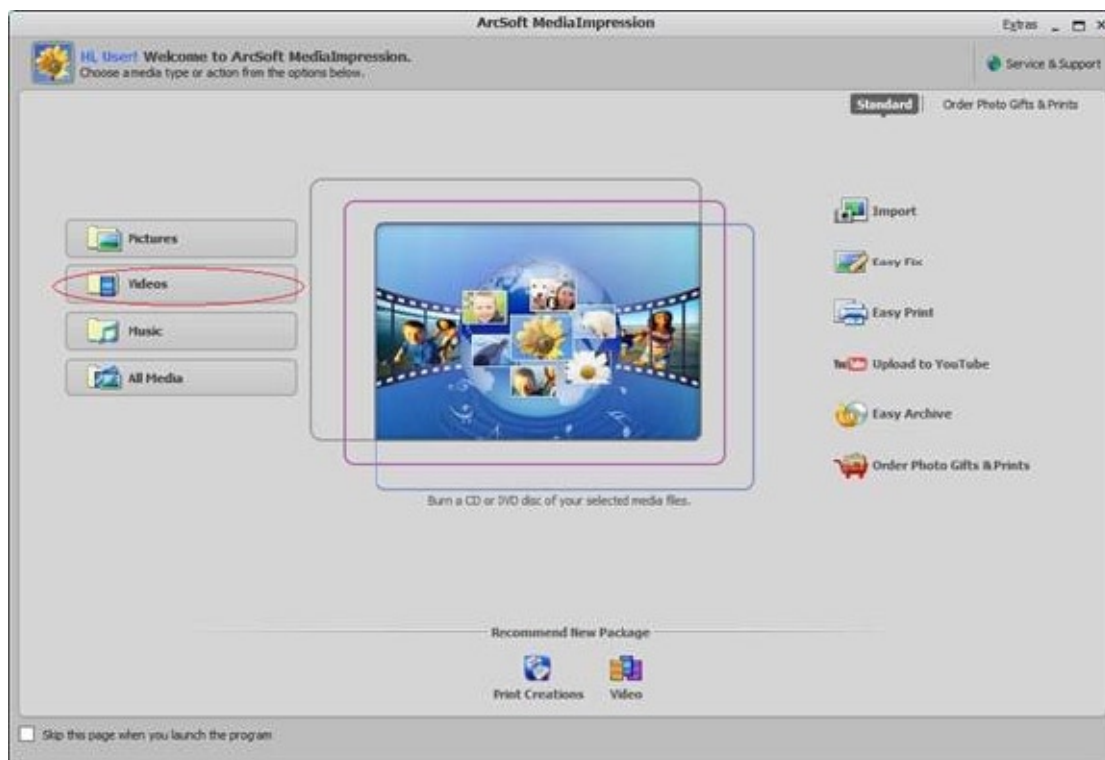
5. The operation screen will appear:

   • Select the folder that contains the video files you want to burn.

   • Select the files in the display area.

   • Click on [Make Movie] at the bottom menu.
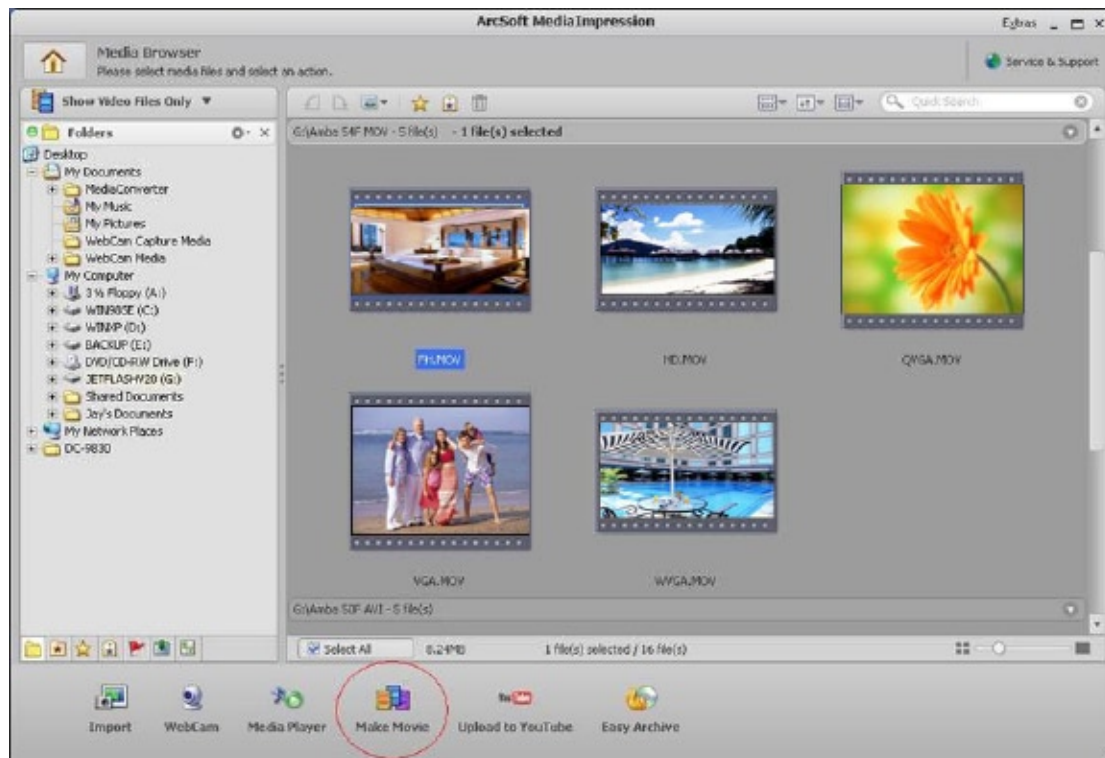
6. Click on [Add Media] ( ) to add the files into slide.

7. Click on [Save/Share].
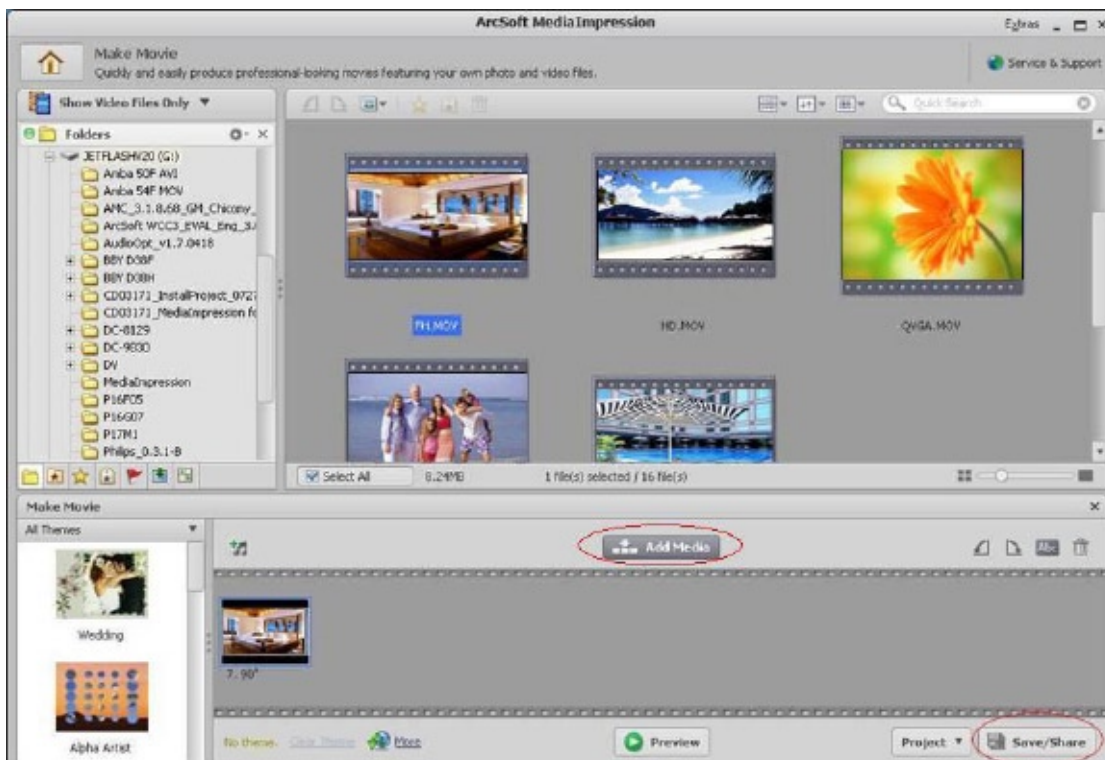
8. Select [Burn] and click on [Next] to proceed.
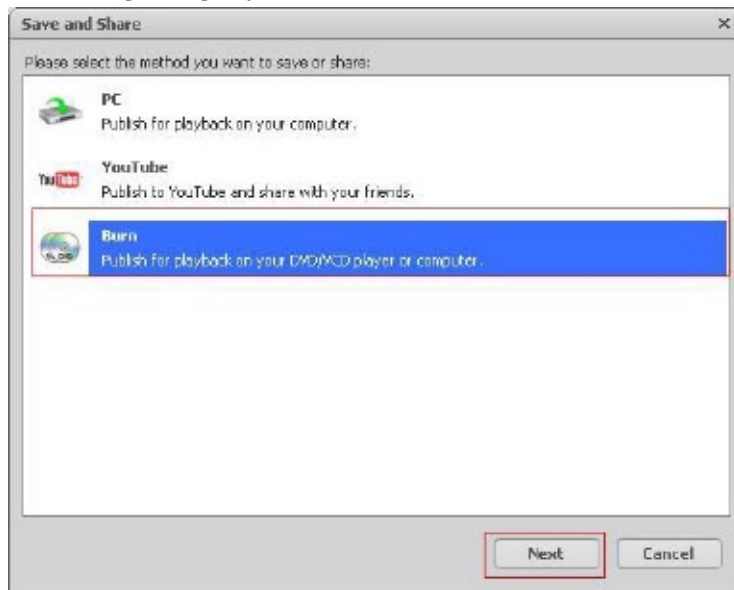
9. Click on [Start] to start the VCD/DVD burning.
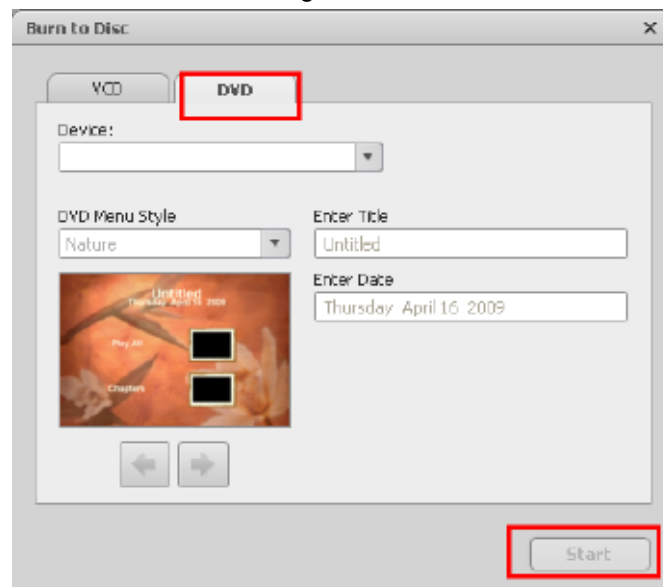
Note

Please insert a blank, writable VCD or DVD into the CD/DVD Writer before clicking on [Start].

Section 9
Uploading Video Files to Internet

The built-in **Internet Direct** application offers you an easy way to upload your video clips to Internet instantly. It helps you share them with your family and friends on the website. Also, the bundled software, **ArcSoft MediaImpression,** can be used to upload your video clips to Internet.

9.1 Internet Direct

To upload video files marked with   to Internet:

1. Select the video clips in Movie Playback Mode by pressing Internet Button.

2. Connect the camera to your computer by using the supplied USB cable.
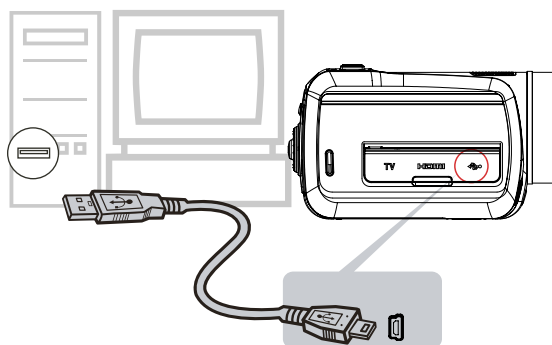
3. Press Internet Button on the camera to launch the Internet Direct application automatically. (Before the computer launches Internet Direct, you have to install the application included in the CD first.)

4. Upload video clips:

   1. Choose the website you want to upload.

   2. Press Internet Button ⊕ on the camera again.

   3. The videos clips marked with 🌐 will be uploaded to the website automatically. (You may be asked to fill in your account information before uploading or you can fill in the information firstly by click on

   ⚙)

   4. Click on " CANCEL" to stop uploading.

To upload video files selected manually to Internet:

1. Follow the step 2 and 3 on page 36.

2. On the thumbnail screen, click on the up/down icon to change the pages. Click on the video clips you want to upload.

3. Choose the website you want to upload.

4. Click on " UPLOAD" to start uploading.

EN

To playback the video file:

1.Double click on the video clip on the thumbnail screen.

2.Click on the Play/Pause icon ▮▮ to play/pause. Click on the Return icon ⮐ to return to the thumbnail preview screen.

To setup your account information for the website:

1. Click on ⚙ to go to the setup screen.

2. Fill in your account information in the blanks. Then click on "Save".

(If you do not have a account, please sign up on the website first.)

EN

9.2 ArcSoft MediaImpression

To upload video files to YouTube:

1. Install ArcSoft MediaImpression (Refer to Section 7).

2. Click on Windows [Start] →[(All) Programs] →[ArcSoft MediaImpression].

3. The ArcSoft MediaImpression main screen will appear on your desktop.

4. Click on [Videos] .
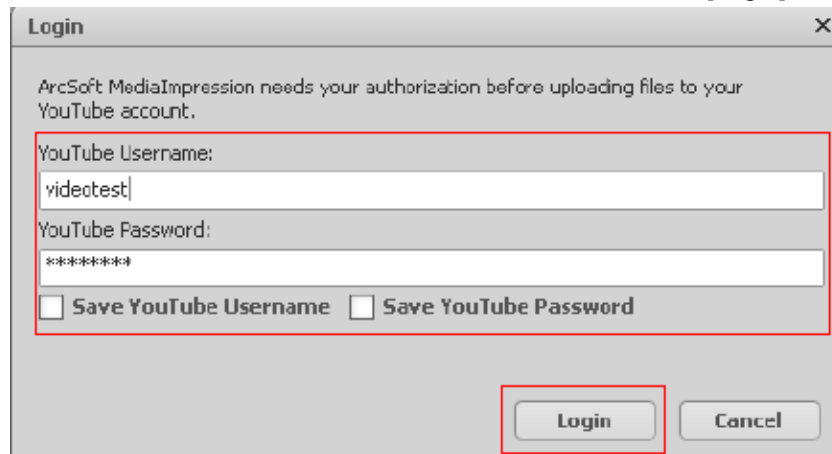
5. The operation screen will appear:

  • Select the folder that contains the video files you want to upload.

  • Select the files in the display area.

 • Click on [Upload to YouTube] at the bottom menu.

EN
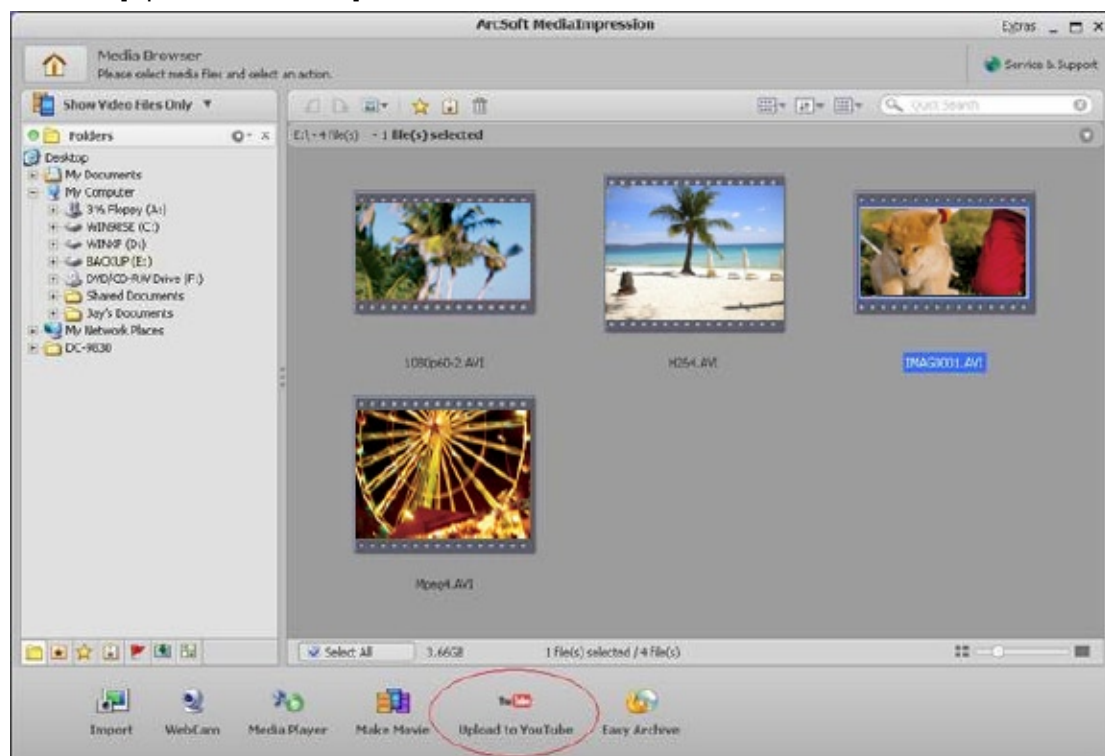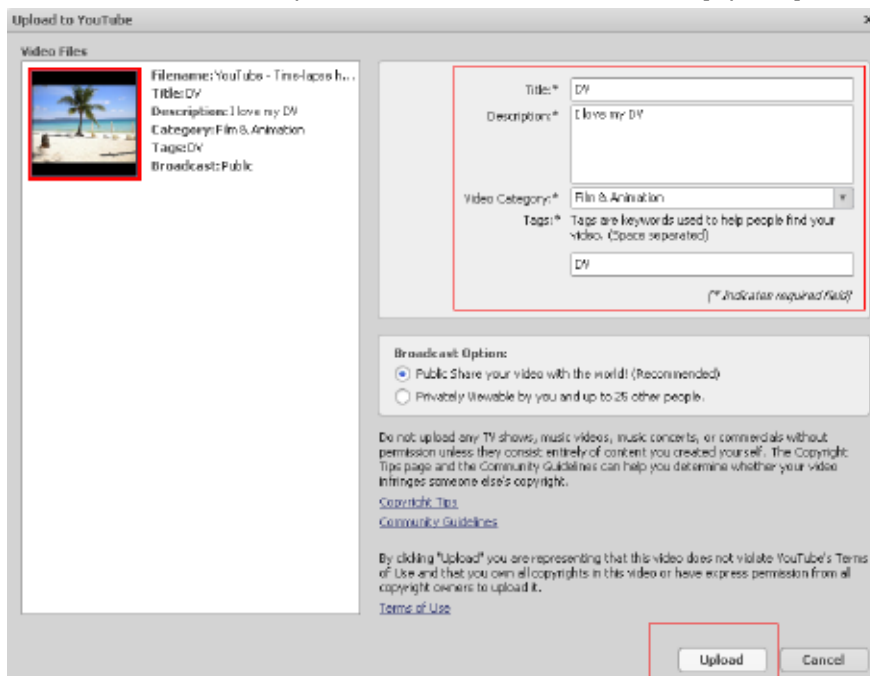
6. Fill in your YouTube account information in the blanks, and then click on [Login]

7. Fill in the information of the video clips in the blanks, and then click on [Upload]
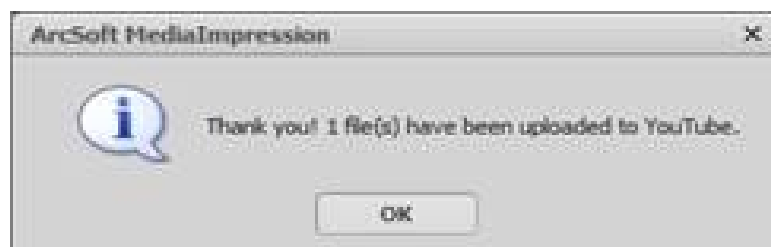
Section 10
Video File Converter

The 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.

To convert a video file:

1. Install ArcSoft MediaConverter (Refer to section 7).

2. Click on Windows [Start] →[(All) Programs] →[ArcSoft MediaConverter].

3. The ArcSoft MediaConverter main screen will appear on your desktop.

4. Select [Profile 1].
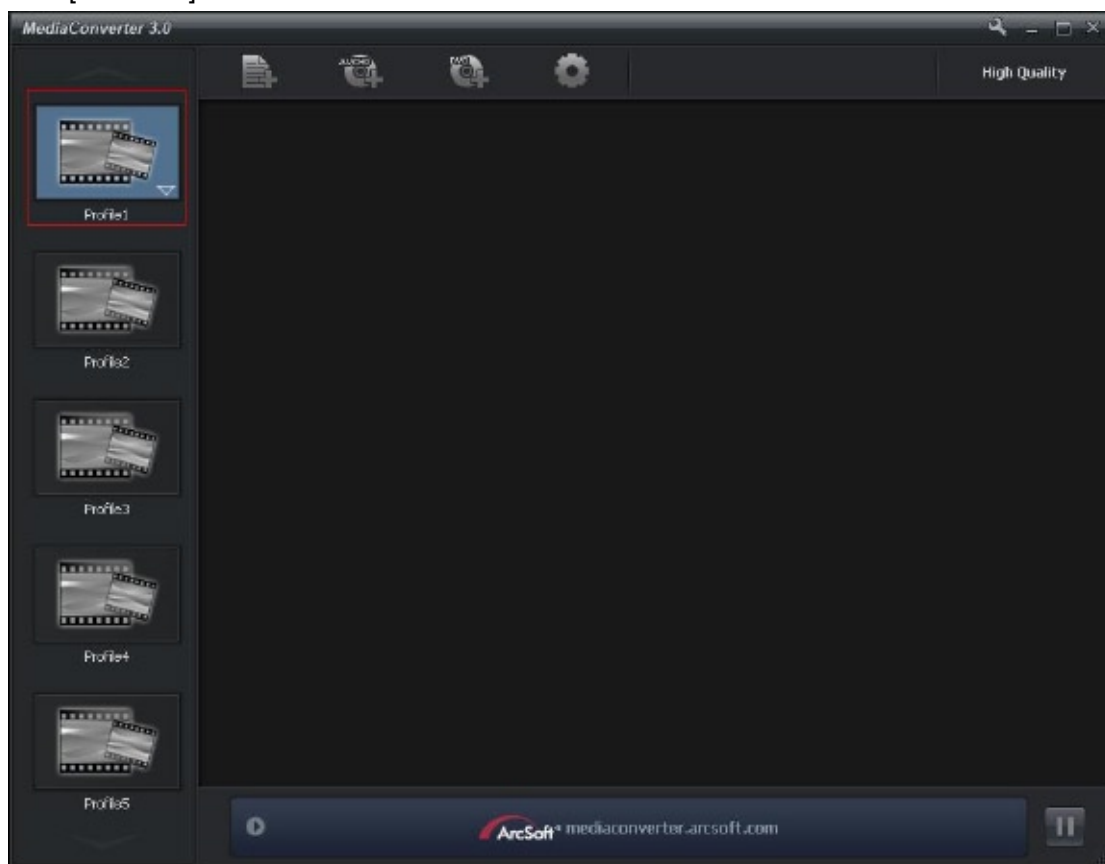
5. Select the video file you want to convert. Then, click on [Open] to convert the file.
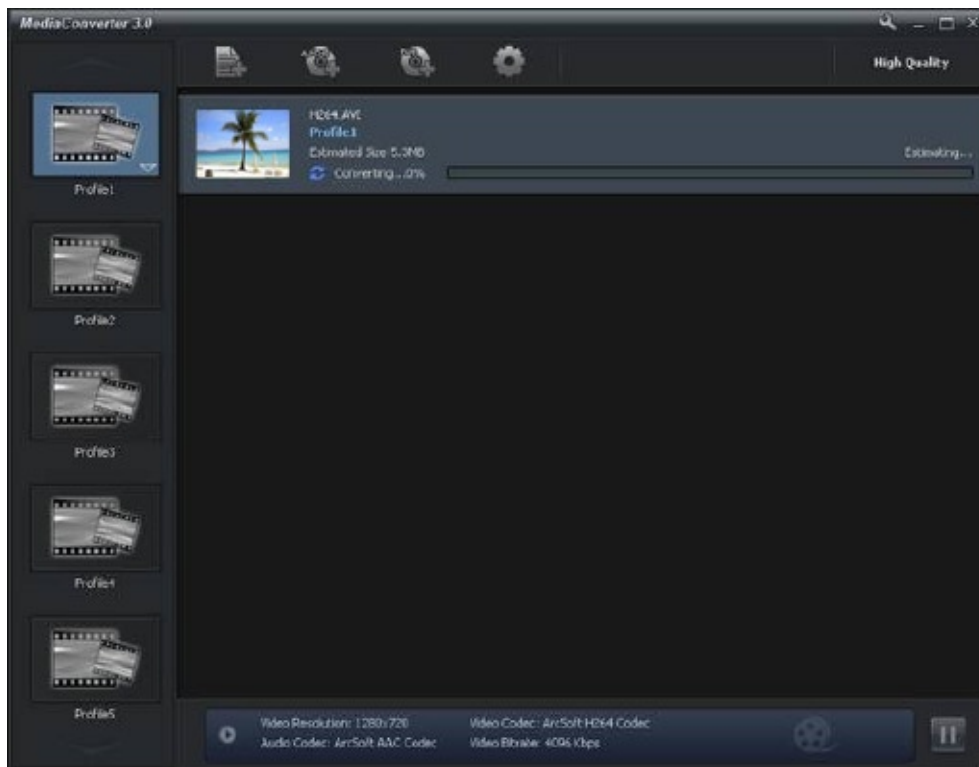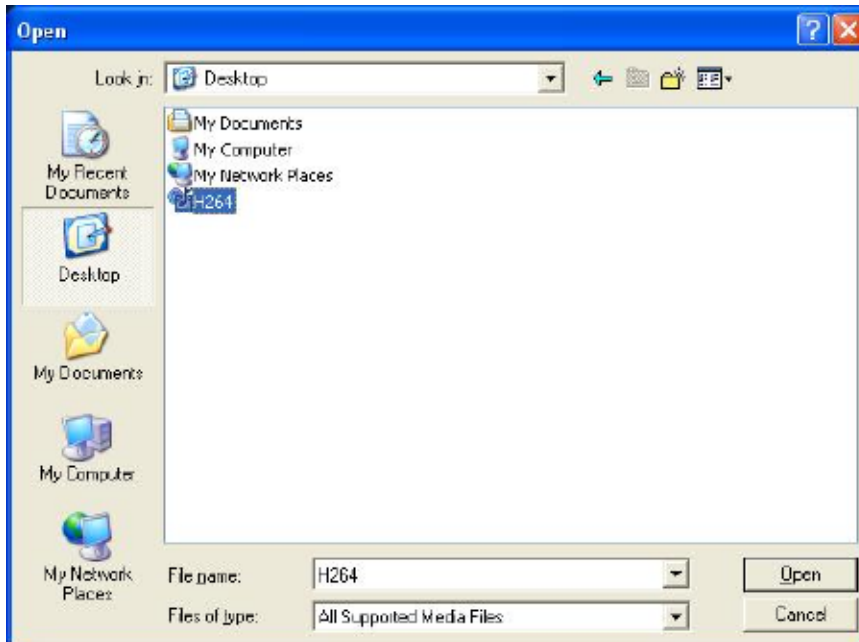
6. The converted files will be renamed " IMAG0001.avi", " IMAG0002.avi",and so on.

7. Rename the converted file to " IMAGXXXX. avi" before transferring the converted file to your camera. (XXXX should be a four figures,e.g. 0001 to 9999) (Please note that the converted file names can not be the same as the ones having existed in your camera, otherwise the video files in your camera may be overwritten.)

8. Connect your camera to PC and copy the converted videos to "My Computer\Removable Disk\ DCIM\100MEDIA" in your camera.(Under the circumstances of within an SD card in the camera and OS of the computer is Windows XP.)

9. After transferring the converted videos to the camera, Press Playback Button or press [▶] on the screen to enjoy your favorite movies.

🔆 *Note*

" My Computer\Removable Disk" would be different based on OS recognition.

Section 11
Specifications and System Requirements

Specification

Image sensor	10 Mega pixel CMOS sensor
Operation modes	Movie record, Picture record
Lens	f=5.95~59.5mm F2.0~2.8
Focus range	Macro mode: wide:1cm~Infinite, tele:60cm~Infinite Auto mode: wide:10 cm~Infinite, tele:100 cm~Infinite
Zoom	1X~100X (10X Optical zoom and 10X Digital zoom)
Shutter	Electronic
LCD monitor	3" touch LCD
Storage media	Built-in 128MB memory (partial memory is used for firmware code); SD/SDHC card slot support (up to 32GB)
Image resolution	High: 4608x3456 (16M pixels) Standard: 3644x2748 (10M pixels) Low: 2048x1536 (3M pixels)
Movie resolution	FHD(1080i 60): 1920X1080i (60fps) FHD(1080p 30):1920X1080p (30fps) HD (720p 60): 1208X720p (60fps) HD(720p 30): 1208X720p (30fps) VGA(4:3): 640X480p (30fps)
White balance	Auto/Manual (Daylight, Fluorescent, Tungsten)
ISO	Auto/800/1600/3200
Self-timer	10 seconds delay
Flash	Flash Auto/Red-Eye-Reduction/Digital Light/Flash Off
File format	Picture: JPG Movie: AVI
Image play	Single image/Slideshow
PC interface	Mini USB 2.0 port
TV out	NTSC/PAL selectable, HDMI (up to 1080i 60)
Battery	Lithium-ion rechargeable battery
Dimension	67.5(H) * 62.3(W) * 122(L) mm
Weight	270 g (without battery)

System requirements

- Microsoft Windows XP/Vista/7

- Intel Pentium 4 2.4GHz or above

- 512 MB RAM

- CD-ROM Drive

- 1 GB free HDD space

- Available USB port

- 16-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. However, 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 manufacturing process, and do not affect the recording.

Troubleshooting

1. **If the LCD preview is not clear while shooting, how can the focus be adjusted?**

   Try to switch between Macro and Auto Mode.

2. **The flash is not working.**

   The battery power is low.

   The camera is in DC power mode.

3. **The files on the memory card do not display smoothly when the LCD shows the "!" marking.**

   The "!" means the SD card is low speed or is having wrong content inside. The way to solve this condition is to format SD card by the camera instead of a PC (Please refer to the detailed Format instruction in Section 5).

4. **Why is camera flash not active when taking pictures?**

   In the flash auto mode, the camera flash fires ONLY when necessary (e.g. in the dark).

5. **Why do some of my indoor pictures look blurry and dark?**

   The camera extends picture exposure time under low light/ indoor condition. Keep the camera (and the target subject) steady for several seconds when taking pictures. The shutter will sound when pictures are being taken.

6. **How do I charge battery?**

   You must use the supplied AC charger or the USB cable.

   The camera must be turned OFF; blinking light confirms charging, and the light becomes constant when the charging has been completed. Then, the light will turn itself off automatically after 5 minutes. (In AC charging Mode).

Regulatory Information

The above mark is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE). The mark indicates the requirement NOT to dispose the equipment including any spent or discarded batteries as unsorted municipal waste, but use the return and collection systems available. If the batteries or accumulators included with this equipment display the chemical symbol Hg, Cd, or Pb, then it means that the battery has a heavy metal content of more than 0.0005% Mercury, or more than 0.002% Cadmium or more than, 0.004% Lead.

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In the unlikely event of a problem developing, please contact the store where you purchased your equipment.

We continually strive to improve our products; specifications may change with out prior notice.

For advice on where to purchase accessories, please contact the store where you purchased your equipment.

HITACHI

DZ-HV1079E Warranty

Hitachi Europe Ltd.

If Something doesn't seem to work

If there is something about your appliance which you do not understand and you live in the UK, you can phone our helpline during normal hours on: 0844 8009595. (COMET HELPLINE)
Calls are charged at standard rates.

Guarantor: Comet Group plc
Comet House Three Rivers Court
Rickmansworth, Hertfordshire,
WD3 1FX

Getting Started

Load the rechargeable Li-ion battery /SD card (Optional)

Slide the safety latch to the unlocked position and open the battery cover.
Insert the battery according to the correct polarity marks (+ or -).
Close the battery cover firmly and slide the safety latch to the locked position.
Recommended memory capacity of an SD card (Optional) -- 1GB or above.
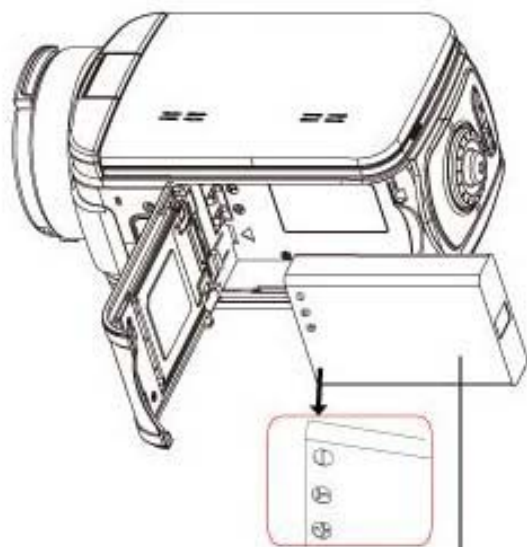
Li-ion battery
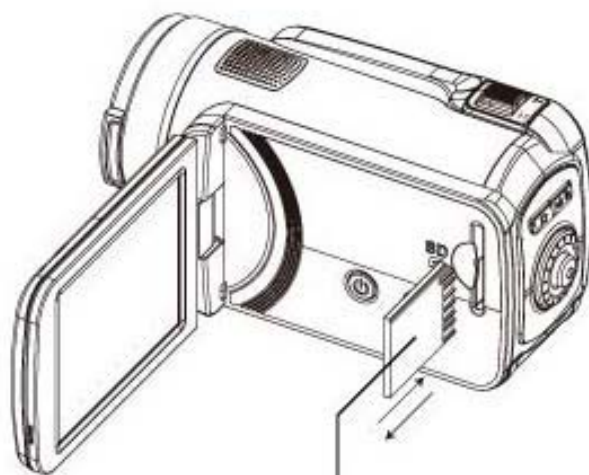
Insert the SD card (Optional) into the right position.
To remove an SD card, press it down and take it out.

Charge your battery
You must use the supplied AC charger or the USB cable.
The camera must be turned OFF;
blinking light confirms charging,
and the light becomes constant after the charging is completed.
Then, the light will turn itself off automatically after 5 minutes.
(In AC charging Mode)

Record & Play

❶ Flip to power on

- Flip out the LCD panel or hold [Power ⏻]Button for one second.
- If no operation is made in 3 minutes, the camera will turn itself off automatically to conserve battery power.

❷ To start or stop recording

- Press Mode Button 📷/🎥 or touch 🎥/📷 on the screen to switch to Movie Record mode. (The Movie Mode LED Indicator 📹 will light up.)
- Press ⊚

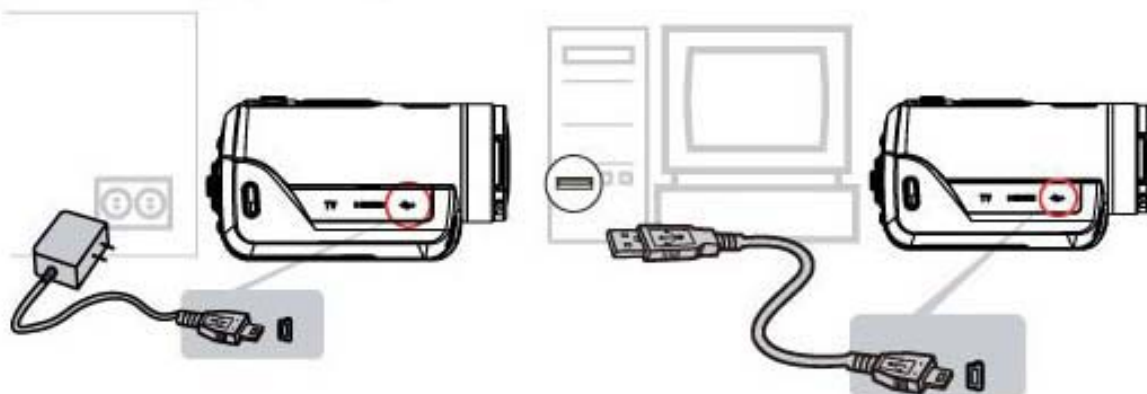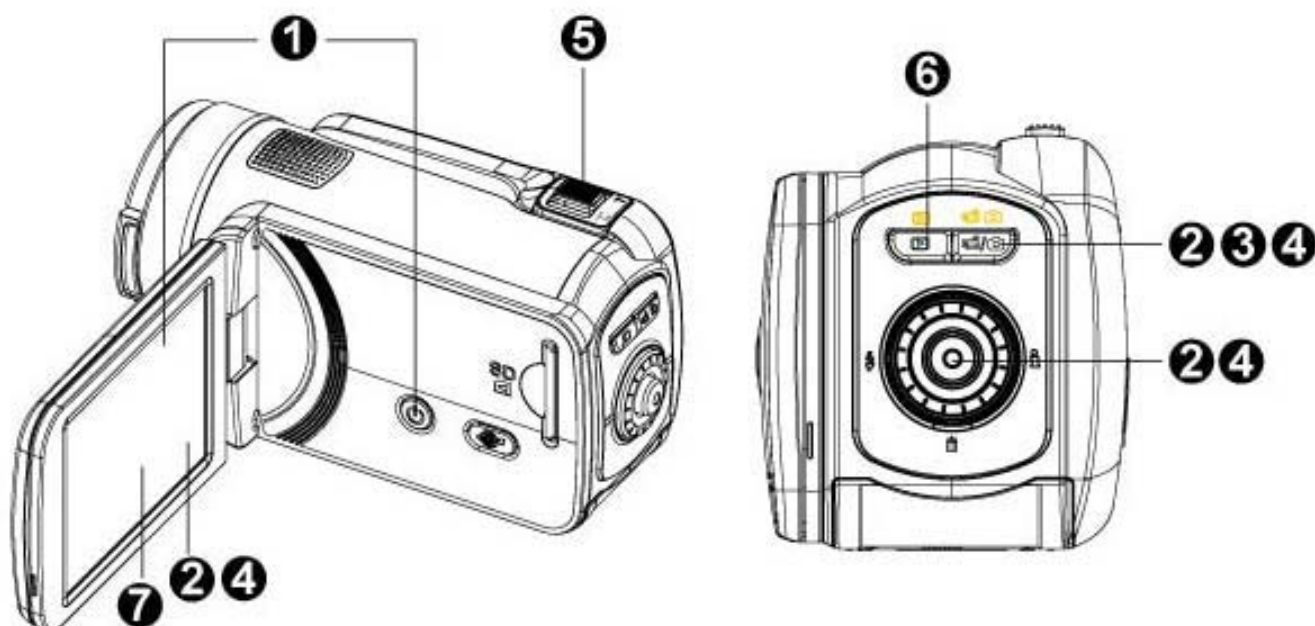## ❸ Dual record

- When recording movies, press Mode Button 📷/🎥 to capture the image. Dual record icon 📷 appears on the LCD monitor.

❹ To capture picture

- Press Mode Button 📷/🎥 or touch 🎥/📷 on the screen to switch to Movie Record mode. (The Movie Mode LED Indicator 📷 will light up.)
- Press ⊚

❺ To zoom in or out

- Press [T]/[W] ▥

❻ To review movies/pictures

- Press 🔲

❼ To operate more advanced options

- Touch 🟦 (on-screen icon) to access the option menu.

For more detailed operational instructions, please refer to User's Manual-Section 3 &4 on the supplied CD.

Plug & Share

Install the bundled application software, **ArcSoft MediaImpression**, to view the movies correctly on PC.
Connect the computer and camera with the supplied mini USB2.0 cable as shown.

Movies and pictures can be found on your computer at
"**My Computer\Removable Disk\DCIM\100MEDIA.**"
Under this folder, you can view, delete, move, or copy the recorded movies and pictures you want.

Uploading Video Files to the Website
You can also share the recorded movies on website via the built-in **Internet Direct** application which offers you an easy way to upload your video clips to the website instantly.
(For more detailed operational instructions, please refer to User's Manual-Section 9 on the supplied CD.)
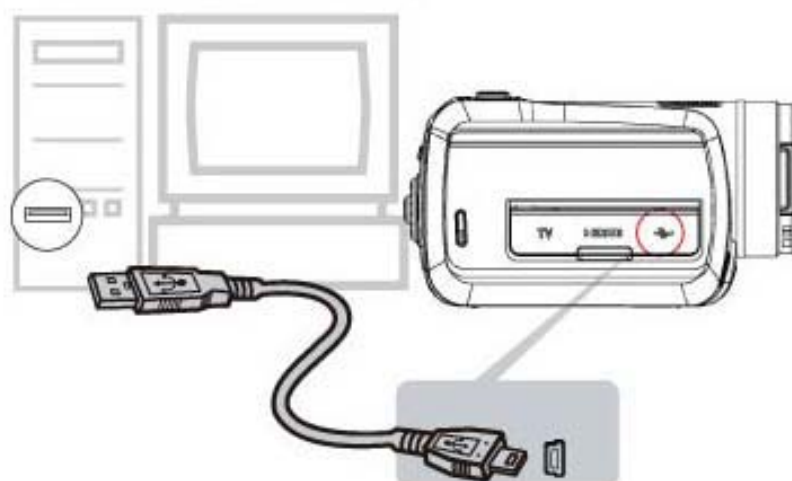
Install bundled ArcSoft Software

1. Insert the supplied CD into your computer's CD-ROM drive.
2. The autorun screen appears. Then, click on [Install Application Software]. Follow the on-screen instructions to complete the installation.
● **ArcSoft MediaImpression** is a user-friendly application that helps you managing your media, burning your video into a DVD, and uploading your videos to YouTube easily.
● **ArcSoft MediaConverter** is a powerful application that converts multiple video formats into compatible format with your camera.

Tour of Your Camera

Front/Side

Tele/Wide Button

Speaker

Flash

Lens

Microphone

TV Port

Mini USB 2.0 Port

HDMI Port

LCD Touch Panel

SD card Slot

Power Button
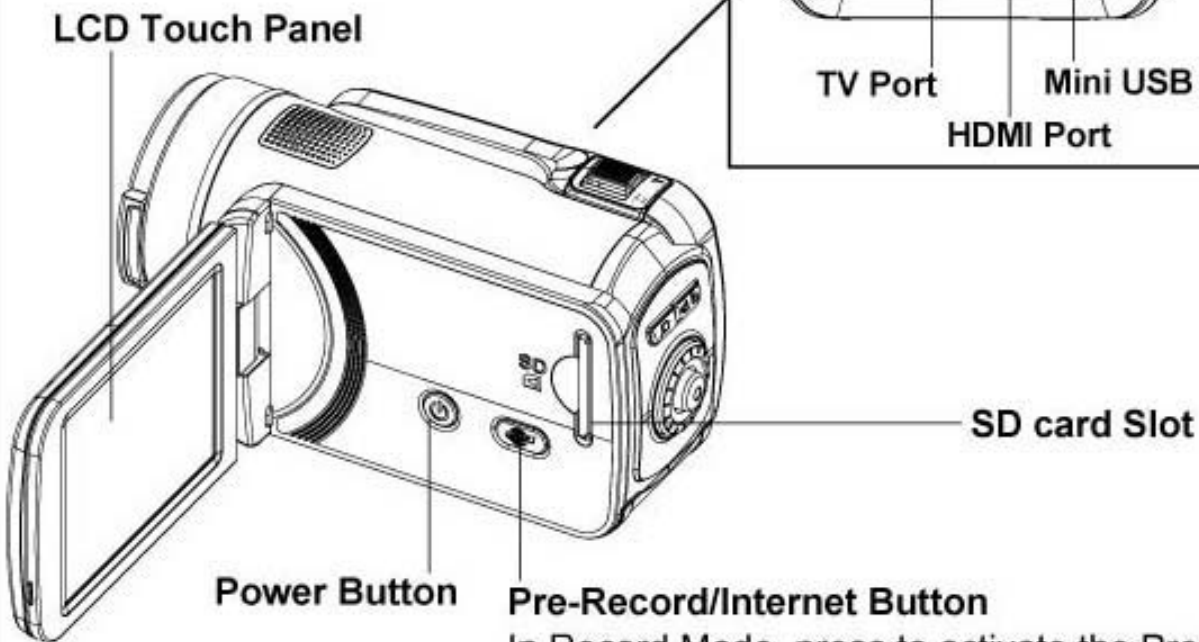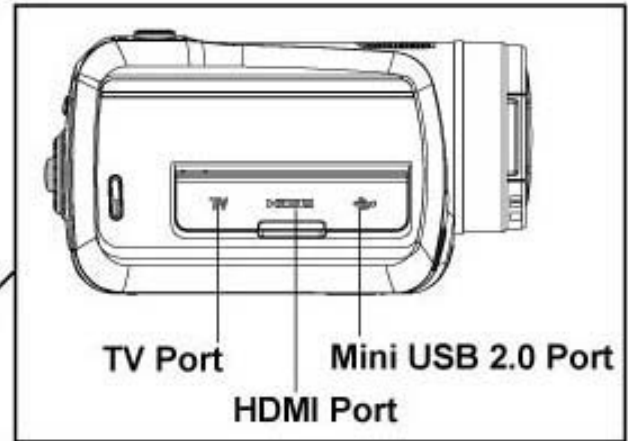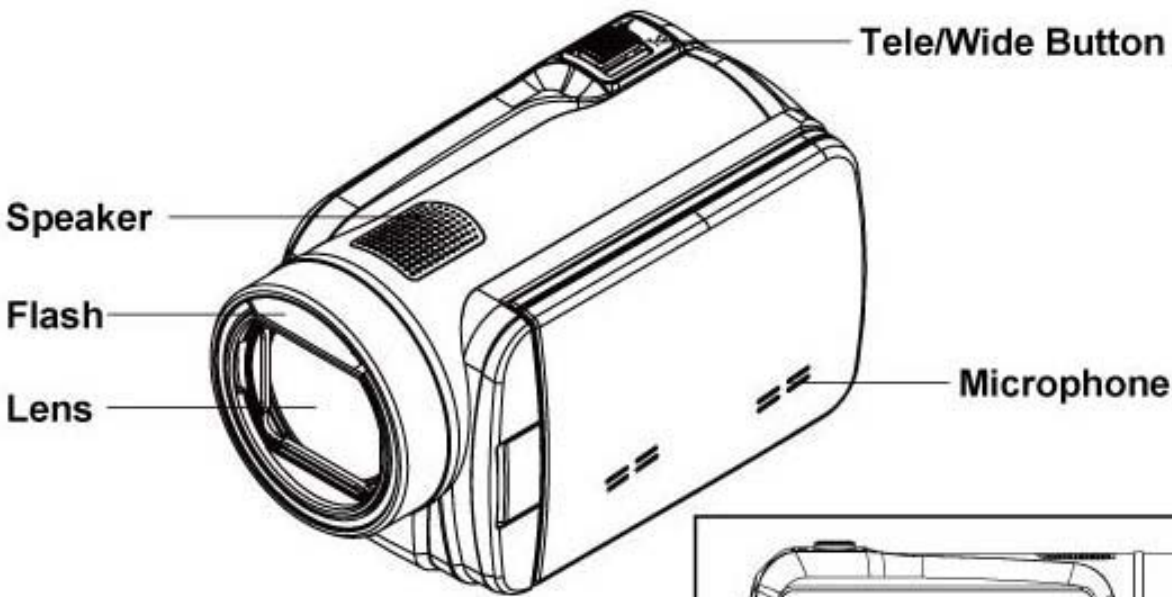
Pre-Record/Internet Button
In Record Mode, press to activate the Pre-Record function and the movies will be recorded 3 seconds before the OK Button is pressed.
In Movie Playback Mode, press to select the current movies to upload to the website.
When the camera is connected with the computer, press to launch Internet Direct application automatically.

Tour of Your Camera

Rear/Bottom

Playback LED Indicator

[Playback] Button
ISwitch between Record /Playback Mode.
For quick review, press it after recording.

[OK] Button
In Movie Record Mode, press to take movies.
To stop recording, press it again. In Picture Record Mode, press to take pictures.
Validate the setting.
In Picture Playback Mode, press to start/stop the slideshow.

Movie Mode LED Indicator

Picture Mode LED Indicator

[Mode] Button
When recording movies, press to capture the image.
Switch between Movie Mode and Picture Mode.
Switch between Movie Preview Screen and Picture Preview Screen.

Rolling Wheel
Rotate to move between the wheel menu options.
Rotatel to move to the previous/next movies/ pictures.
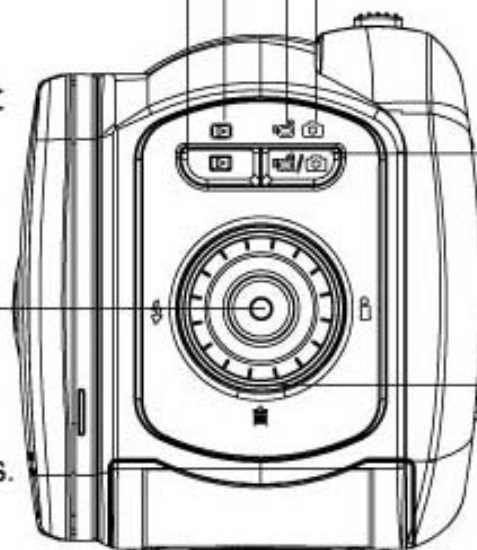
[Right] Button
LCD Information ON/OFF.
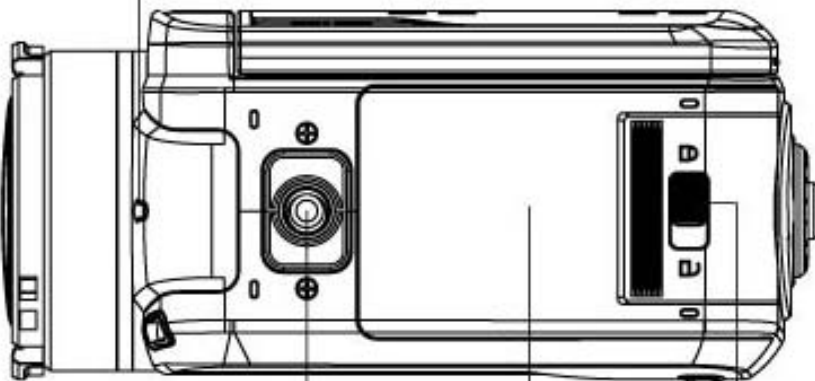
[Left] Button
Flash Auto/ Red eye Reduction/Digital Light/Flash Off

[Down] Button
Press to delete movies/pictures.

Self Timer LED

Tripod Socket   **Battery Cover**   **Safety latch**

Troubleshooting

1. If the LCD preview is not clear while shooting, how can the focus be adjusted?
Try to switch between Macro and Auto Mode.

2. The flash is not working.
The battery power is low.
The camera is in DC power mode.

3. The files on the memory card do not display smoothly when the LCD shows the "!" marking.
The" !" means the SD card is low speed or is having wrong content inside.
The way to solve this condition is to format SD card by the camera instead of a PC.
(Please read the detailed Format instruction in User's Manual- Section 5)

4. Why is camera flash not active when taking pictures?
In the flash auto mode, the camera flash fires ONLY when necessary (e.g. in the dark)

5. Why do some of my indoor pictures look blurry and dark?
The camera extends pictures exposure time under low light/ indoor condition. Keep the camera (and the target subject) steady for several seconds when taking pictures. The shutter will sound when pictures are been taken.

6. How do I charge battery?
You must use the supplied AC charger or the USB cable. The camera must be turned OFF; blinking light confirms charging, and the light becomes constant after the charging is completed. Then, the light will turn itself off automatically after 5 minutes.

Regulatory Information

The above mark is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE). The mark indicates the requirement NOT to dispose the equipment including any spent or discarded batteries as unsorted municipal waste, but use the return and collection systems available. If the batteries or accumulators included with this equipment display the chemical symbol Hg, Cd, or Pb, then it means that the battery has a heavy metal content of more than 0.0005% Mercury, or more than 0.002% Cadmium or more than, 0.004% Lead.

In the unlikely event of a problem developing, please contact the store where you purchased your equipment.
We continually strive to improve our products; specifications may change with out prior notice. For advice on where to purchase accessories, please contact the store where you purchased your equipment.

Hitachi cannot compensate for any damages caused when recording is not made normally or recorded contents cannot be played back because of a defect in the digital camera device or memory card. Hitachi cannot be responsible for your recorded video and audio. If you or a third party make a mistake when handling this digital camera device or memory card, etc., the recorded contents may be lost. Hitachi cannot be responsible for compensation for damage due to loss of recorded contents.