

[VuPoint]
Solutions



DV-DA1-VP
Digital Video Camcorder
User's Manual

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Preface

Congratulations on your purchase of this great digital video camcorder/ camera, which also is a music player. Please make sure that you read this manual carefully and keep it in a safe place for future reference. Thank you for choosing VuPoint Solutions.

About this manual

Every effort has been made to ensure that the contents of this manual are correct and up-to-date. However, no guarantee is made regarding the accuracy of the contents, and the manufacturer reserves the right to make changes without notice.

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Safety

- Do not use or store this camera in dusty, dirty, or sandy areas, as its components may be damaged.
- Do not store this camera in hot areas. High temperatures can shorten the life of electronic devices, and damage or melt certain plastic parts.
- Do not store this camera in cold areas. When the product warms up to its normal temperature, moisture can form inside, which may cause damage to the internal electronic circuits.
- Do not attempt to open the casing.
- Do not drop or knock the camera. Rough handling may damage the internal components.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean this camera. Clean the camera with a slightly dampened soft cloth.
- If the product or any of its accessories are not working properly, please contact VuPoint Solutions at customerservice@vupointsolutions.com

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1 Introducing the Camera

Read this section to learn about the features and functions of this digital video camcorder. This chapter also covers system requirements, package contents, and the camera views.

1.1 System requirements

This camera requires a host PC with the following specifications:

- Windows® XP, 2000, ME, 98SE operating system
- Intel® Pentium III 1 GHz CPU or higher
- At least 256 MB of RAM or higher
- Standard USB 1.1 port or higher
- 4x speed CD-ROM drive or higher
- At least 200 MB of available disk space

A USB 1.1 port will enable you to transfer files to and from the host PC, but transfer speeds will be much faster with a USB 2.0 port.
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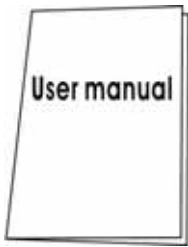
1.2 Features

This camera offers a variety of features and functions including:

- Digital Video Camera
- Digital still camera (with 8 x digital zoom, 5 Mega pixels)
- Music player
- Voice recorder
- TV/VCD/DVD recorder
- Games

1.3 Package contents

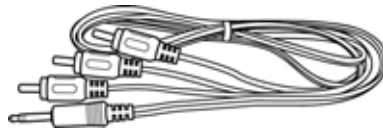
All the following items should be present in the Camera package. If any of them is missing or appears damaged, please contact your dealer immediately.



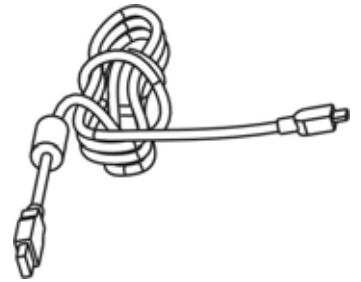
User's manual



Software CD



AV cable



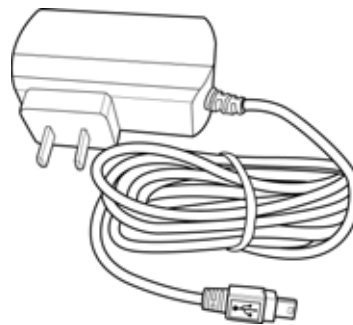
USB cable



Earphone



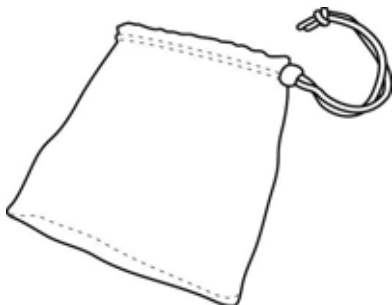
Remote control



AC adapter



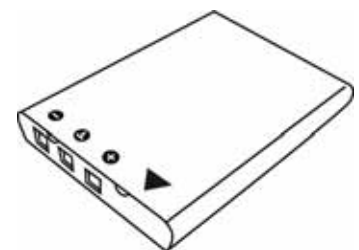
Strap



Pouch



Quick Start Guide

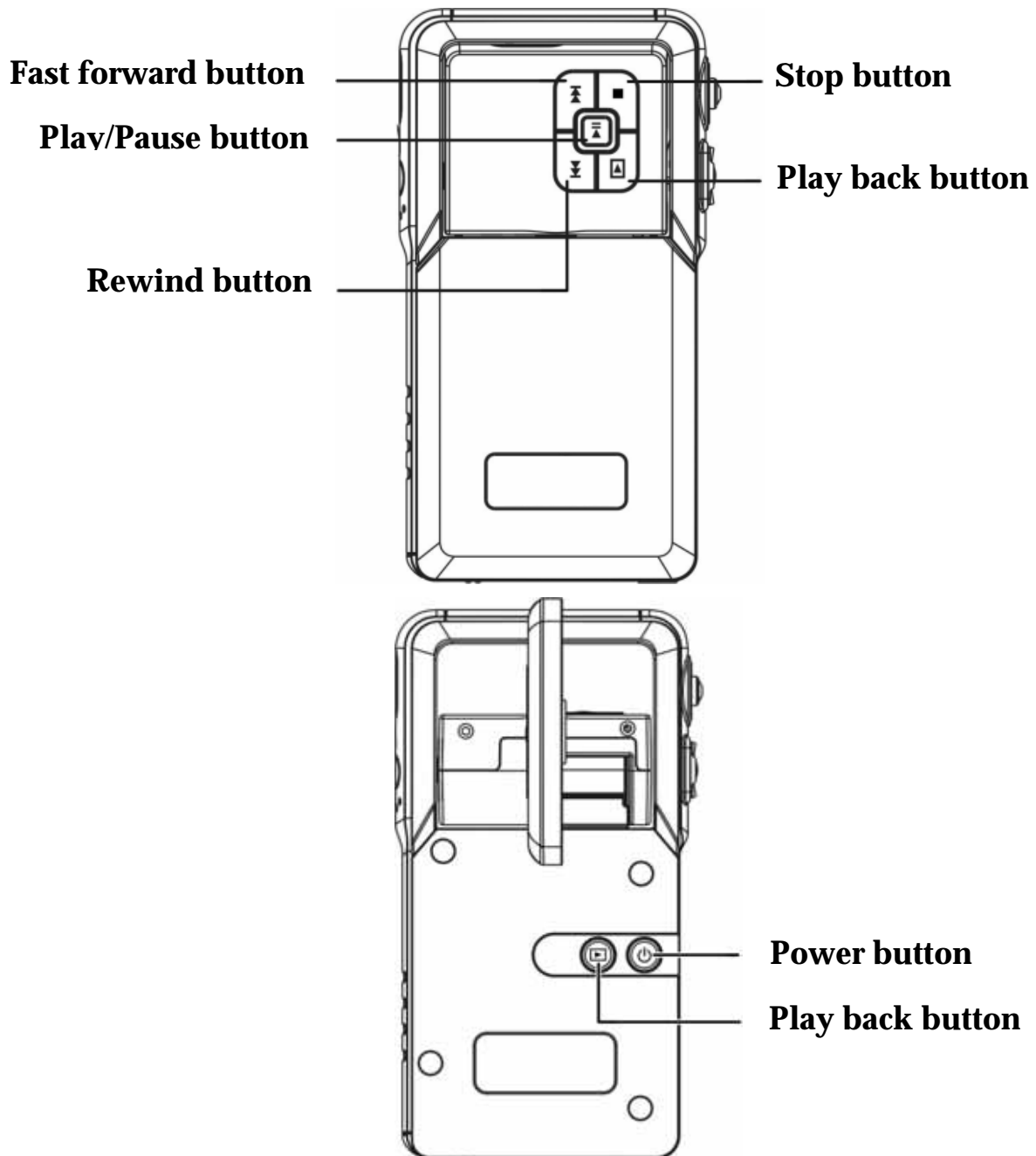


Battery

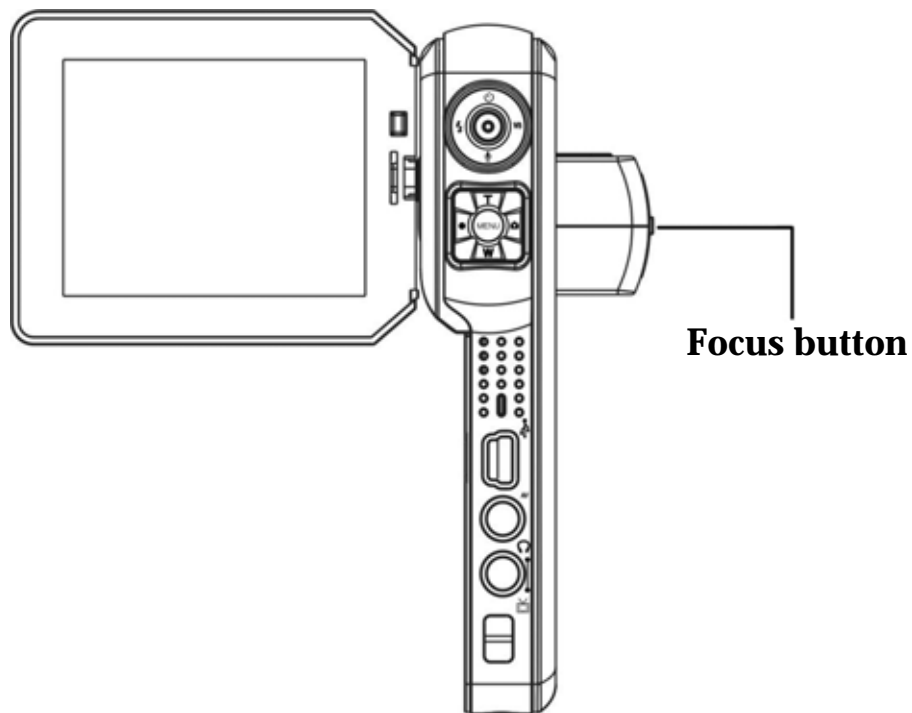
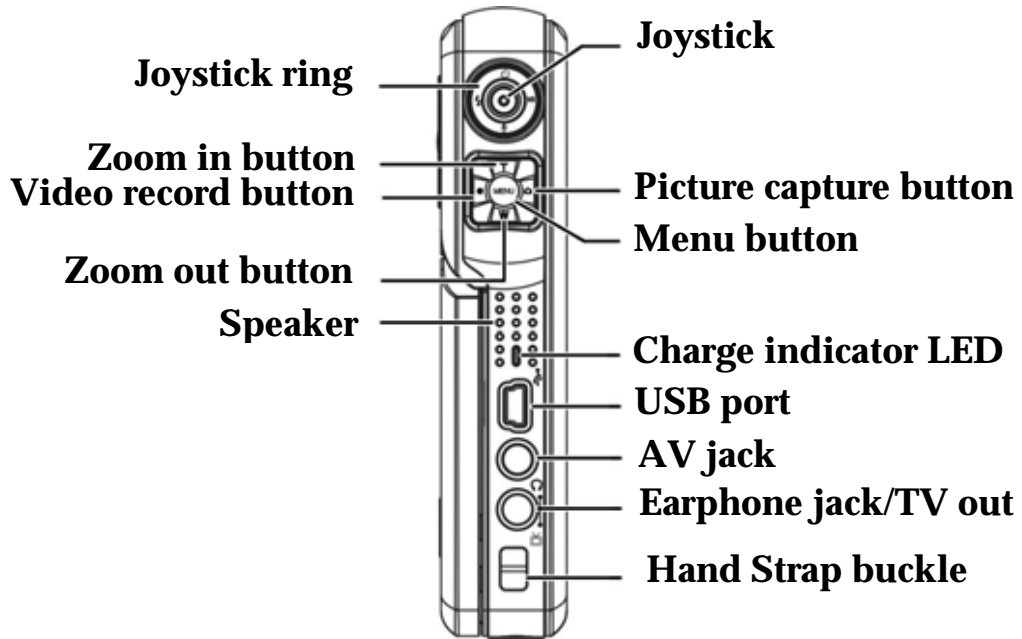
1.4 About the Camera

Refer to the following diagrams to familiarize yourself with the buttons and controls of this camera.

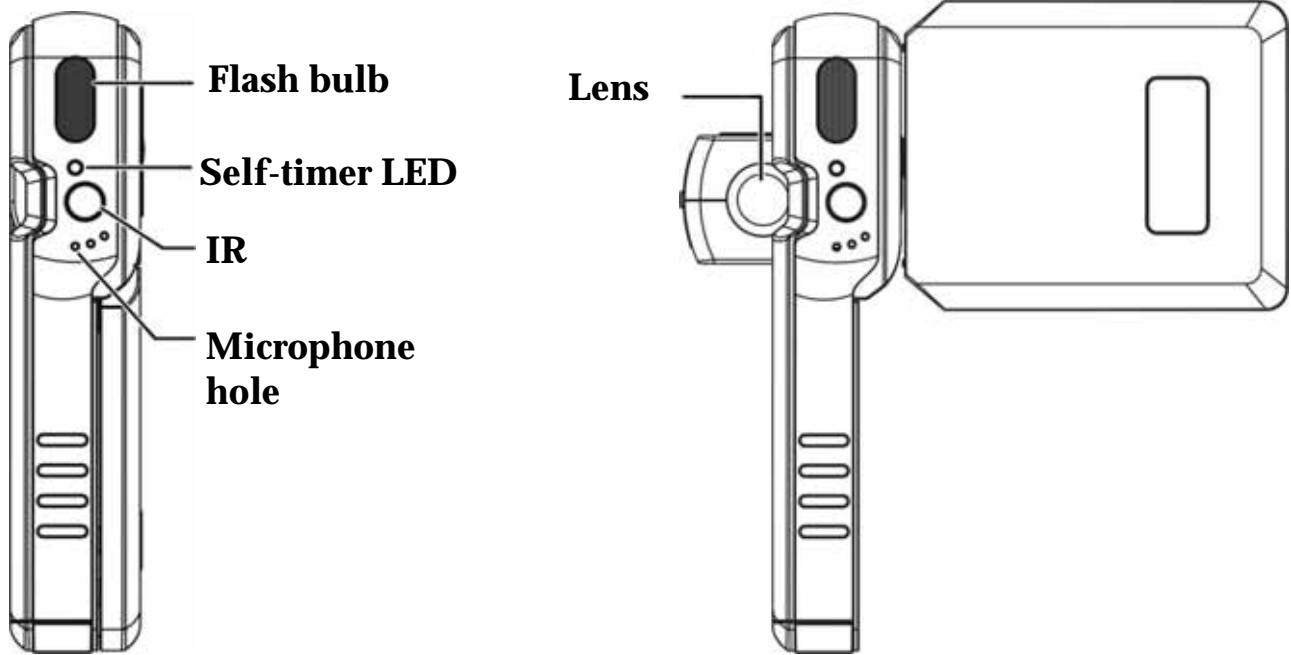
1.4.1 Front view



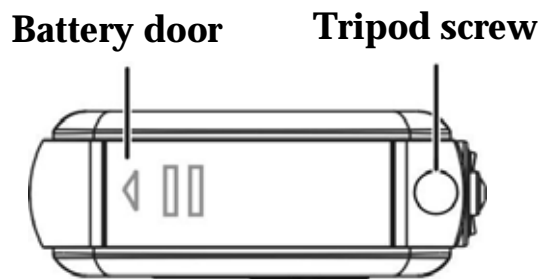
1.4.2 Right view



1.4.3 Left view









1.4.4 Bottom view






1.4.5 Button functions

Refer to the table below for detail function of each button:

Icon	Button	Function
	Power on / off	Turns the Camera on or off.
	Playback	To enter playback menu (including photo, video, voice, music and game playback modes).
	Menu	1. Press the menu button to enter/exit the settings menu.
	Capture	Press to capture images.
	Video	Press to shoot videos.
	T (Zoom in)/ W (Zoom out)	1. Use to zoom in / out. 2. Use to adjust volume in music and play modes.

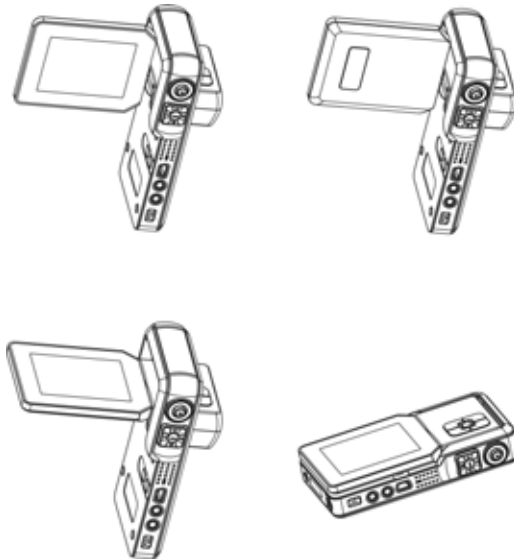
Icon	Button	Function
	Joystick (left / right / up / down / OK) & Joystick ring	<ol style="list-style-type: none"> 1. Use to navigate the OSD (on screen display) menus. 2. Press the joystick left/right/up to set flash modes, white balance and self-timer 3. Press the joystick down to enter voice recorder mode. 4. Press (in) the center of the joystick (OK) to confirm a selection.
	Play/Pause	<ol style="list-style-type: none"> 1. Press to play or pause while playing music or voice clip in music or voice playback mode. 2. This button has the same function as pressing into the joystick (OK).
	Stop	<ol style="list-style-type: none"> 1. Press to stop playing when playing a music or voice clip in music or voice playback mode. 2. The button has the same function as pressing the joystick down.

Icon	Button	Function
	Fast forward	<ol style="list-style-type: none"> 1. Press to fast forward (2X, 4X, 8X, 10X) while playing a video clip or to go to the next file in music or voice playback mode. 2. The button has the same function as pressing the joystick right.
	Rewind	<ol style="list-style-type: none"> 1. Press to rewind (2X, 4X, 8X, 10X) while playing a video clip or to play a previous file in music or voice playback mode. 2. The button has the same function as pressing the joystick left.
	Focus	Push to change focus modes between normal and far mode.

1.4.6 Rotating the Camera

Carefully open the LCD monitor on the left side of the camera.

The directions and lock position of the LCD monitor is shown as follows:



Note: To avoid damaging the LCD monitor, do not rotate the LCD monitor in the wrong direction!

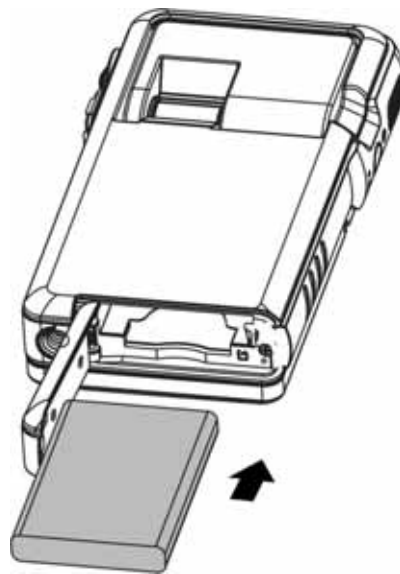
2 Getting Started

Read this section to learn how to start using this digital video camcorder. This section covers only the basic functions.

2.1 *Charging*

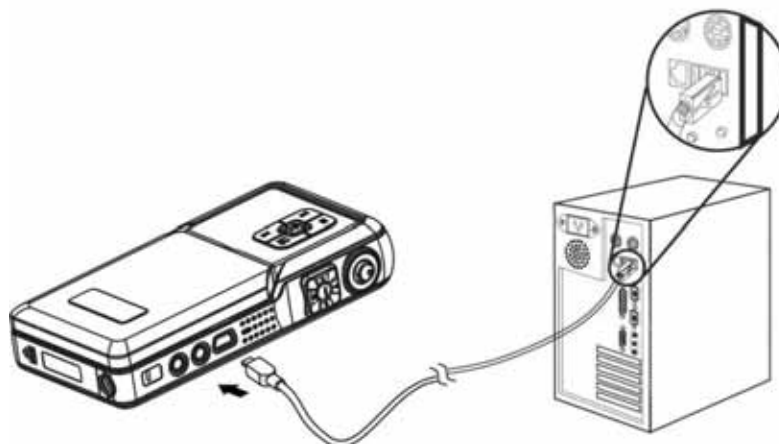
2.1.1 Replacing battery

This camera is designed to use a rechargeable Lithium Ion battery.

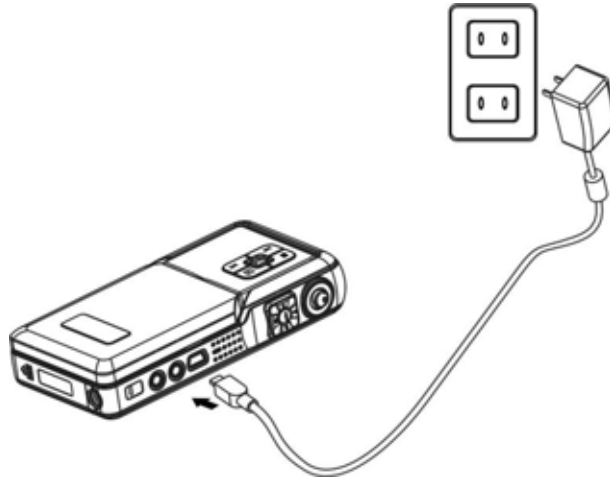


2.1.2 Charging

Use the USB cable in the package to connect the digital video camcorder to your PC and the battery charging process will start.



You can also use the AC adapter to charge your camera. Plug the AC adapter into the wall outlet and connect the other end to your camera to charge.

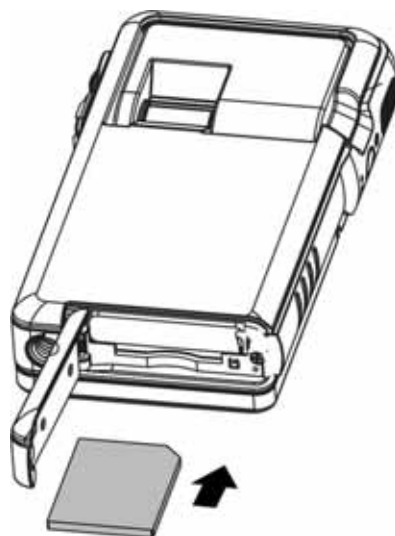


2.2 *SD card*

An SD card can be inserted into this digital video camcorder to provide additional storage space.

To install an SD Card:

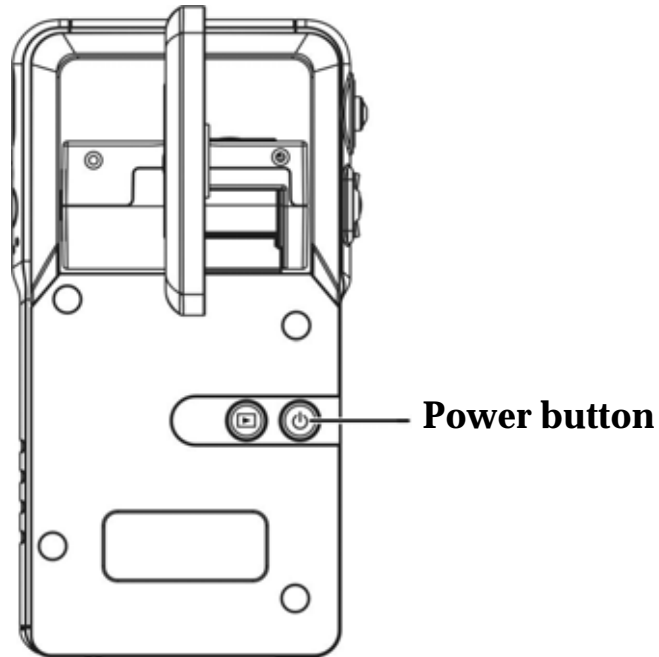
1. Open the battery door.
2. Insert an SD card as shown. Make sure the gold contacts are facing down as shown.
3. Close the battery door.



2.3 *Turning on/off the Camera*

There are two ways to turn on/off the camera:

1. Open or close the LCD monitor.
2. Press and hold the Power button.



3 Using the digital video camcorder

Read this section to learn how to use the basic setup menu of this digital video camcorder.

3.1 *Using the LCD display*

Use the LCD display to compose and review your pictures and videos stored in memory, and navigate the OSD (On Screen Display) menu.

Icons displayed on the LCD display also show the current configuration.



LCD display of video recording mode



LCD display of preview/capture mode

3.2 About the LED

Camera Status					
	Power LED		Self-Timer LED	Charge LED	
	Blue	Red	Red	Green	Red
Power off	OFF	OFF	OFF	OFF	OFF
Power on/ Stand by	ON	Flick (1HZ)	OFF	OFF	OFF
Strobe Charging	ON	OFF	OFF	OFF	OFF
Processing	ON	OFF	OFF	OFF	OFF
Battery low	OFF	Flick (1HZ)	OFF	OFF	OFF
USB connection	ON	OFF	OFF	OFF	OFF
Self-timer	ON	OFF	Flick	OFF	OFF
Video recording	ON	OFF	ON	OFF	OFF
Charge	OFF	OFF	ON	OFF	ON
Charge Ok	OFF	OFF	ON	ON	OFF

3.3 Setup menu

The setup menu includes a number of settings to configure your camera.

To access the **Setup** menu:

1. Turn the camera on.
2. Press the **Menu** button and press the joystick down to enter **Setup** menu.



To exit the Setup menu while configuring the camera, press the **Menu** button again to exit the **Setup** menu.

3.3.1 Sound effect

Use this option to turn on or off the sound effect of the unit.

1. Press the joystick up or down to highlight the **Sound effect** option.
2. Press the joystick left or right to select between **On** or **Off**.
3. Press (in) the center of the joystick to confirm, and press the **Menu** button to exit the menu.



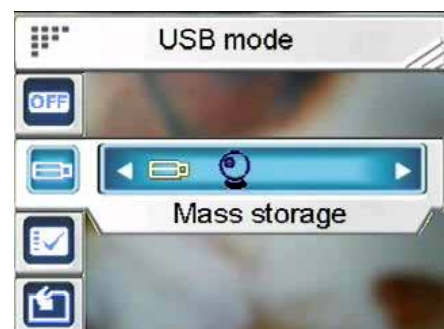
3.3.2 USB mode

Use this option when the camera is connected as a USB device. Press the joystick up or down to highlight the **USB mode** option.

3.3.2.1 Mass storage

Press the joystick left or right to select the **Mass storage**.

Connect the camera to the PC with the USB cable. Now the camera will be presented as a removable disk.



While in **Mass storage** mode, you can copy files from your PC to the camera, including music files that can be played in music mode. For music mode operation, please refer to “**8.4 Music**” for detailed information.

3.3.2.2 *PC Camera*

Note: Before connecting the camera as a PC-Camera, please install the driver on the CD-ROM first. Please refer to “**9 Installing the Applications**” for detailed information.

Press the joystick left or right to select the **PC camera**.

Connect the camera to the PC with the USB cable, and then the camera can be used as a PC camera, use in Net-meeting or any on-line communication tool.



3.3.3 **Date and time**

Use this option to set the date and time

1. Press the joystick up or down to highlight the **Date and time option**.
2. Move the joystick left or right to change between fields.
3. Move the joystick up or down to adjust the number or the format of the date.
4. Press in the joystick to confirm, and press the Menu button to exit the menu.



3.3.4 **Welcome picture**

Use this option to set a welcome screen when turning the camera on.

1. Press the joystick up or down to highlight the **Welcome picture** option.
2. Press the joystick left or right to select from **Flash, Picture, and Customized photo**.
 - Select **Flash** to use the factory default flash as the welcome screen.
 - Select **Picture** to use the factory default picture as the welcome screen
 - Select **Customized photo** to use a photo as the welcome picture.
3. Press in the joystick to confirm, and press the **Menu** button to exit the menu.



3.3.5 Auto power off

Use this option to set a period of inactivity after which the camera will switch itself off. This function can save the battery consumption.

1. Press the joystick up or down to highlight the **Auto power off** option.
2. Press the joystick left or right to select from **Never, 1 minute or 3 minutes**.
3. Press in the joystick to confirm, and press the **Menu** button to exit the menu.



3.3.6 LCD brightness

Use this option to set the brightness of the LCD.

1. Press the joystick up or down to highlight the **LCD brightness** option.
2. Press the joystick left or right to select from **Darkest, Darker, Normal, Brighter or Brightest**.
3. Press in the joystick to confirm, and press the **Menu** button to exit the menu.



3.3.7 Language

Use the option to set a language for the OSD menu of the camera.

1. Press the joystick up or down to highlight the **Language** option.
2. Press the joystick left or right to select from the languages.
3. Press in the joystick to confirm, and press the **Menu** button to exit the menu.



3.3.8 TV system

Use this option to set the camera video output to match the TV system in your area.

1. Press the joystick up or down to highlight the **TV system** option.
2. Press the joystick left or right to select between **NTSC** and **PAL**.



3. Press in the joystick to confirm, and press the **Menu** button to exit the menu.

3.3.9 Format

Use this option to format the data stored on the memory card or in the internal memory.

1. Press the joystick up or down to highlight the **Format** option.
2. Press in the joystick to confirm and proceed.



Note: When this function is used, all stored data (including photos and videos) will be erased and cannot be recovered. Make sure you backup all data before formatting.

3.3.10 Default

Use the option to reset all settings to the factory default.

1. Press the joystick up or down to highlight the **Default** option.
2. Press in the joystick to confirm.



3.4 *Setting menu*

The setting menu includes both **Video** and **Photo Mode** settings.

To access the **Setup** menu:

1. Turn the camera on.
2. Press the **Menu** button and press the joystick left or right to choose between **Video Mode** and **Photo Mode**.

To leave the **Setting** menu while configuring the camera, press the **Menu** button to exit the **Setting** menu.

3.4.1 Video mode

Read this section to configure the settings in **DV** mode.

To access the **Video mode**:

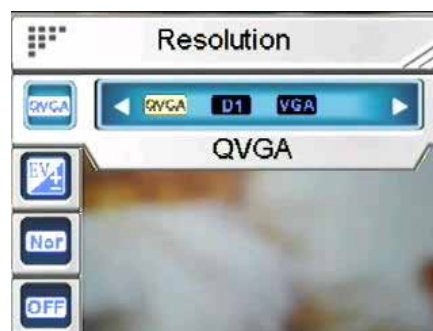
1. Turn the camera on and press the **Menu** button.
2. Press the joystick left or right to highlight **Video Mode**.
3. Press the joystick up to enter the **Video mode** setting menu.



3.4.1.1 Resolution

Use this option to set the resolution for each video shoot.

1. Press the joystick up or down to highlight the **Resolution** option.
2. Press the joystick left or right to select from **QVGA**, **D1** or **VGA**.
3. Press in the joystick to confirm, and press the **Menu** button to exit the menu.



3.4.1.2 EV adjust

Use this option to change the exposure for your video. Usually this value would be set to **0.0**, but you might want to increase the exposure to light up a subject with dark lighting, or decrease the exposure if you are shooting a video in a very bright area.

To adjust the **EV adjust**:

1. Press the joystick up or down



to highlight the **EV adjust** option.

2. Press the joystick left or right to select from **-2.0, 0.0, +2.0**.
3. Press in the joystick to confirm, and press the **Menu** button to exit the menu.

3.4.1.3 *Digital filter*

Use this option to convert a video image to different color areas.

To set the **Digital filter**:

1. Press the joystick up or down to highlight the **Digital filter** option.
2. Press the joystick left or right to select from **Normal, Sepia, Black/White, Red, Pink, Purple, Blue, Green, Yellow, Solarize** or **Negative**.
3. Press in the joystick to confirm and press **Menu** again to exit the menu.



3.4.1.4 *Stabilization*

Use this option to counteract camera shaking and help you to shoot clearer videos.

To set the **Stabilization**:

1. Press the joystick up or down to highlight the **Stabilization** option.
2. Press the joystick left or right to select between **on** and **off**.
3. Press in the joystick to confirm and press **Menu** again to exit the menu.



3.4.1.5 *Monitor Video*

Use this option to have your camera not to start shooting a video until the image within the focusing area is moving.

To set the **Monitor Video**:

1. Press the joystick up or down to highlight the **Monitor Video** option.
2. Press the joystick left or right to select between **on** and **off**.



When you select **on**, the camera will automatically start to shoot a video when the image within the focusing area is moving.

Press in the joystick to confirm and press the **Menu** button to exit the menu.

3.4.2 **Photo mode**

Read this section to configure the settings in **Capture** mode.

To access the **Photo mode**:

1. Turn the camera on and press the **Menu** button.
2. Press the joystick left or right to highlight the **Photo Mode**.
3. Press the joystick up to enter the **Photo Mode** setting menu.



3.4.2.1 *Scene*

Use this option to select a proper scene mode to take a picture.

To set a **Scene**:

1. Press the joystick up or down to highlight the **Scene** option.
2. Press the joystick left or right to select from **Auto**, **Portrait**, **Landscape**, **Night**, **Sport**, **Night Portrait**, **Sunset**, **Beach Autumn**, **Natural**, **Backlight**, **Sky** or **Party**.
3. Press in the joystick to confirm and press the Menu button again to exit the menu.



3.4.2.2 *Resolution*

Use this option to determine the resolution of the picture that is going to be taken. A larger resolution will occupy more memory storage space.

To set the **Resolution**:

1. Press the joystick up or down to highlight the **Resolution** option.
2. Press the joystick left or right to select from **VGA**, **1.3M**, **3.0M**, **5.0M**, **7.0M** or **12.0M**.
3. Press in the joystick to confirm and press the **Menu** button again to exit the menu.



3.4.2.3 *Image quality*

Use this option to set the image quality for the picture you're going to capture. A high quality picture occupies more memory space.

To set the **Image quality**:

1. Press the joystick up or down



to highlight the **Image quality** option.

2. Press the joystick left or right to select from **Basic**, **Better**, or **Best**.
3. Press in the joystick to confirm and press the **Menu** button again to exit the menu.

3.4.2.4 *Continuous shots*

Three pictures will be taken continuously when this function is activated. Use this function to take continuous pictures with a short delay between each.

To set **Continuous shots** mode:

1. Press the joystick up or down to highlight the **Continuous shot** option.
2. Press the joystick left or right to select between **off** and **on**.
3. Press in the joystick to confirm and press the **Menu** button again to exit the menu.



3.4.2.5 *Couple shot*

Use this option to combine two different images in one photo.

To use the **Couple shot**:

1. Press the joystick up or down to highlight the **Couple shot** option.
2. Press the joystick left or right to select between **off** and **on**, and press in the joystick to confirm.
3. Use the LCD screen to frame the first image you want to shoot, and press the **Capture** button. The first image will



appear on the left side of the LCD screen.

4. Use the LCD screen to frame the second image you want to shot, and press the **Capture** button. The second image will appear on the right of the LCD screen.

Now you can combine two different images in one photo.

3.4.2.6 *Date stamp*

Use this option to set the date stamp to be shown on the images.

To set the **Date stamp**:

1. Press the joystick up or down to highlight the **Date stamp** option.
2. Press the joystick left or right to select from **No stamp**, **Only date**, **Only time**, or **Date and time**.
3. Press in the joystick to confirm and press the **Menu** button again to exit the menu.

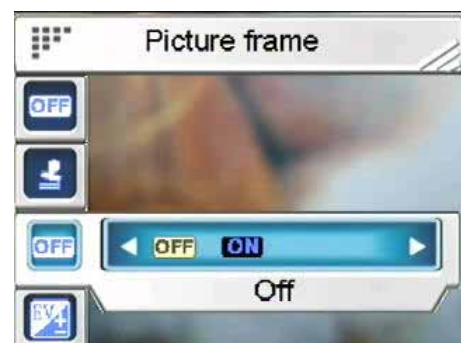


3.4.2.7 *Picture frame*

Use this option to add a picture frame to your pictures when they are taken. There are 16 picture frames to choose from.

To set a **Picture frame**:

1. Press the joystick up or down to highlight the **Picture frame** option.
2. Press the joystick left or right to select between **Off** and **On**.
3. Highlight the **On** option and press in the joystick, and then you can browse the frames.
4. Press the joystick left, right,



- up or down to select a frame from the 16 picture frames.
- 5. Press in the joystick to confirm and exit the menu.

3.4.2.8 *EV adjust*

Use this option to change the exposure for your photo. Usually this value would be set to **0.0**, but you might want to increase the exposure to light up a subject with black lighting, or decrease the exposure if taking a video in a very bright area.

To adjust the **EV adjust**:

1. Press the joystick up or down to highlight the **EV adjust** option.
2. Press the joystick left or right to select from **-2.0 ~ 0.0 ~ +2.0**.
3. Press in the joystick to confirm, and press the Menu button to exit the menu.



3.4.2.9 *ISO*

ISO (Sensitivity) settings control the camera's sensitivity to light. The lower the sensitivity, higher exposure value is needed. When you increase the sensitivity, the shutter speed will be faster and exposure value will be reduced. There might be noises on the images.

To set the **ISO**:

1. Press the joystick up or down to highlight the **ISO** option.
2. Press the joystick left or right to select from **Auto, 50, 100** or **200**. (100 is equivalent to the ISO 100 film, and so on.)
3. Press in the joystick to confirm and press **Menu**



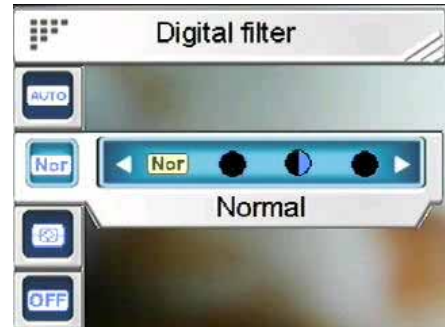
again to exit the menu.

3.4.2.10 *Digital filter*

Use this option to convert images to different color areas.

To set the **Digital filter**:

4. Press the joystick up or down to highlight the **Digital filter** option.
5. Press the joystick left or right to select from **Normal**, **Sepia**, **Black & white**, **Red**, **Pink**, **Purple**, **Blue**, **Green**, **Yellow**, **Solarize** or **Negative**.
6. Press in the joystick to confirm and press **Menu** again to exit the menu.



3.4.2.11 *Metering*

This camera provides 3 metering modes (**Matrix**, **Center-weighted** and **Spot**) to support you with taking photos in different situations.

To set the **Metering** mode:

1. Press the joystick up or down to highlight the **Metering** option.
2. Press the joystick left or right to select from **Matrix**, **Center-weighted** or **Spot**.
3. Press in the joystick to confirm and press **Menu** again to exit the menu.



3.4.2.12 *Histogram*

Use this option to show a graph that displays how light is distributed in your picture.

To set the **Histogram** mode:

1. Press the joystick up or down to highlight the **Histogram** option.
2. Press the joystick left or right to select between **Off** and **On**.
3. Press in the joystick to confirm and press **Menu** again to exit the menu.

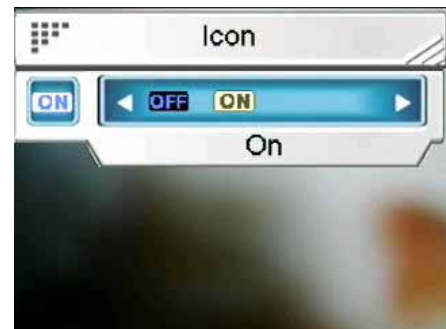


3.4.2.13 *Icon*

Use this option to turn on or off all of the icons on the LCD.

To set the **Icon** mode:

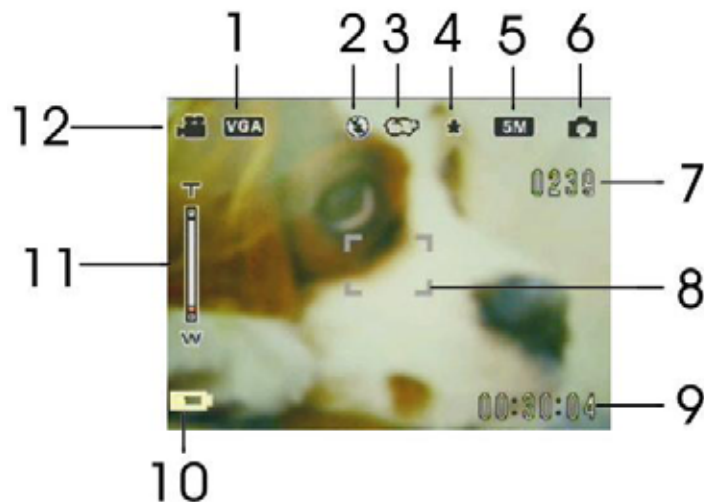
1. Press the joystick up or down to highlight the **Icon** option.
2. Press the joystick left or right to select between **Off** and **On**.
3. Press in the joystick to confirm and press **Menu** again to exit the menu.















4 Preview mode

Read this section for detailed information on operating the **Preview** mode.

4.1 Preview mode icons



Number	Icon	Description
1		Video resolution
2		Flash mode
3		White balance
4		Image quality
5		Photo resolution
6		Capture mode icon
7		Pictures remaining

Number	Icon	Description
8		Focus area
9		Present time
10		Battery indicator
11		Zoom bar
12		Video mode icon

4.2 *Using the self-timer function*

Use the self-timer function to set a delay between the moment you press the shutter and the moment the picture is captured. A delay of **3** or **10** seconds can be set. This function can be used in both capture and record mode.

To set the **Self-timer**:

1. Turn the camera on.
2. Press the **joystick** up to select from **Off**, **3 sec**, or **10 sec**. The selected timer will be shown on the center of the LCD screen.
3. Press the **Capture** or **Video record** button to start counting down.







4.3 *Setting the Flash mode*

When you start to take a picture, press the **joystick** left to switch between **Flash** modes.

See the table below for a detailed description and symbol of each **Flash** mode.

Note: This function will be activated only when you are taking a picture.

Icon	Description
	Flash is turned off.
	Auto flash, fires only when needed.
	Force flash, flash is always on.
	Slow sync flash

4.4 *White balance*

Use this option to correct color for different lighting conditions.

Turn on the camera and then press the joystick right to select from **Auto**, **Daylight**, **Cloudy**, **Tungsten**, or **Fluorescent**. (Each press will just change the mode one at a time.)

4.5 *Using the zoom function*

This function works in both Capture and Video modes.

To control the zoom function press the **T (Zoom in)** button which gets closer to the subject, or **W (Zoom out)** button which moves away from the subject.

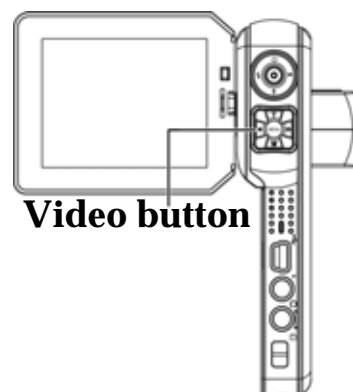
The zoom bar on the LCD screen indicates the zoom status.

5 Shooting your first video

Before shooting your first video, ensure you have read “**1 Introducing the Camera**”, “**2 Getting Started**”, and “**3 Using the Camera**” carefully.

To shoot a video:

1. Turn on the camera.
2. Use the **focus area** on the LCD screen to frame the picture.
3. Press the **Video** button to shoot the video.



The video clip will be saved either on the SD card or in the internal memory with a unique file name.

5.1 *DV mode settings*

Please refer to “**3.4.1 Video mode**” for detailed information.

5.2 *Using the zoom function*

Please refer to “**4.5 Using the zoom function**” for detailed information.

5.3 *Using the self-timer function*

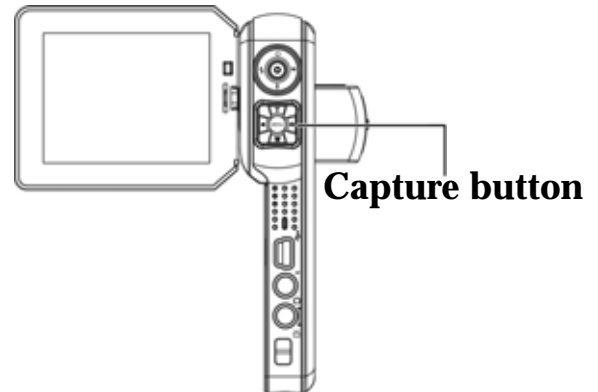
Please refer to “**4.2 Using the self-timer function**” for detailed information.

6 Taking your first picture

Before shooting your first picture, ensure you have read “**1 Introducing the Camera**”, “**2 Getting Started**”, and “**3 Using the Camera**” carefully.

To take a picture:

1. Turn on the camera.
2. Use the **focus area** on the LCD screen to frame the picture.
3. Press the **Capture** button to capture the picture.



The picture will be saved either on the SD card or in the internal memory with a unique file name.

6.1 *Photo mode settings*

Please refer to “**3.4.2 Photo mode**” for detailed information.

6.2 *Using the zoom function*

Please refer to “**4.5 Using the zoom function**” for detailed information.

6.3 *Setting the Flash mode*

Please refer to “**4.3 Setting the Flash mode**” for detailed information.

6.4 *Using the self-timer function*

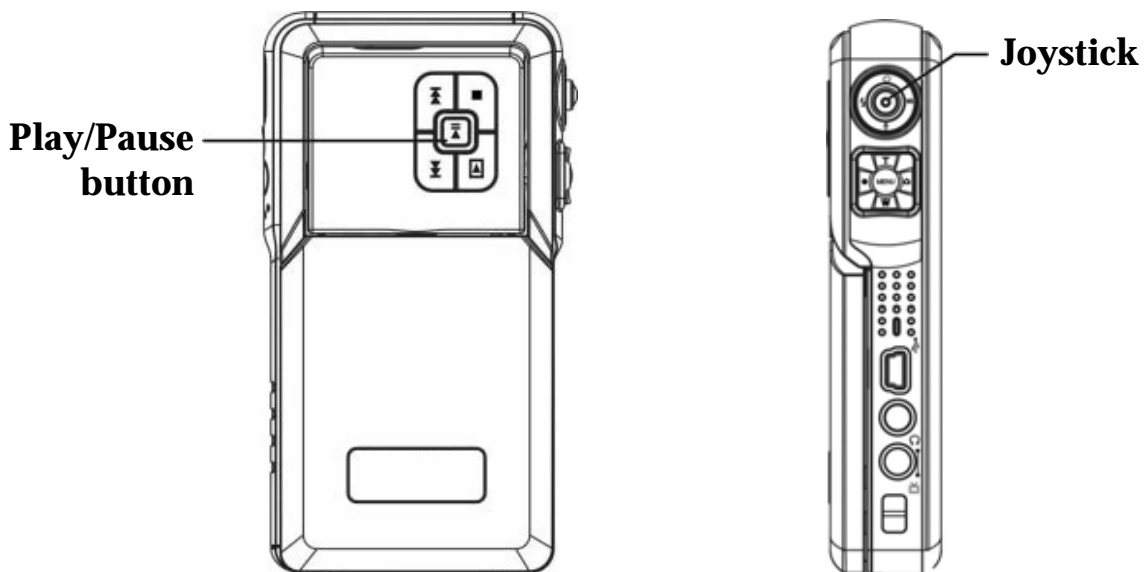
Please refer to “**4.2 Using the self-timer function**” for detailed information.



7 Voice recorder mode

Read this section and learn how to operate the camera as a voice recorder. Turn on the camera, and press the joystick down to enter the **Voice record** mode.

7.1 Voice recorder buttons

Refer to the table below for button function.



Icon	Button	Function
	Joystick	Press in the Joystick or the Play/pause button to start/stop recording.
	Play/Pause	

7.2 Voice recorder icons



Number	Description
1	Indicates the length of a voice recording.
2	Stop: Press in the joystick or Play/pause button to start/stop recording.
3	Recording time that is remaining.

8 Playback Mode

Read this section for detailed information on using the Playback mode.

Turn on the camera, and press the **Playback** button to enter Playback mode.

8.1 *Photo*

To enter **Photo** playback mode:

1. Press the joystick left or right in **Playback** mode and highlight the **Photo** option.
2. Press in the joystick to confirm.



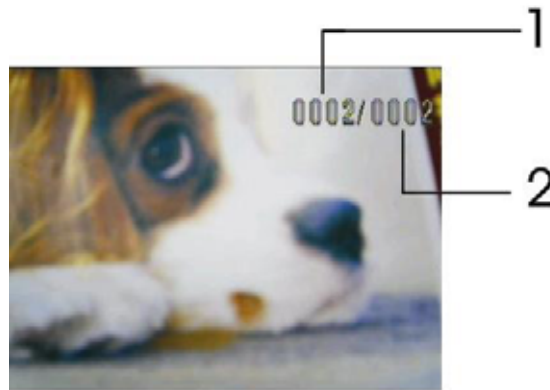
8.1.1 Viewing photos

After entering the Photo playback mode, the images saved either on the SD card or in the internal memory, will be shown using thumbnails.

To view an image:

1. Press the joystick left or right to show the previous or next photo.
2. Press the **T** or **W** button to zoom in or out of the photo.
3. Press the joystick down to record a 20 second voice memo.
4. Press the Playback button again to exit the menu.

8.1.2 Photo Play icons



Number	Description
1	Indicates the number of the present photo.
2	Indicates the total photo quantity.

8.1.3 Photo playback menu

While viewing the images in **Photo** playback mode, press the **Menu** button to configure the photo playback settings.

Note: This function will be activated only when there is at least one image file in the SD card or the internal memory.

8.1.3.1 Delete

Use this option to delete images.

1. Press the Menu button.
2. Press the joystick to highlight the **Delete** option.
3. Press the joystick left or right to select from **Current** or **All**.



4. Press in the joystick to confirm and press the **Menu** button again to exit the menu.

8.1.3.2 *Protect*

Use this option to protect images from accidentally deleting or to unprotect images that are protected.

1. Press the Menu button.
2. Press the joystick up or down to highlight the **Protect** option.
3. Press the joystick left or right to select from **Protect Current, Protect all, Unprotect current** or **Unprotect all**.
4. Press in the joystick to confirm and press the **Menu** button again to exit the menu.



8.1.3.3 *Customize*

Use this option to assign the present photo as the Welcome image.

1. Press the Menu button.
2. Press the joystick up or down to highlight the **Customize** option.
3. Press in the joystick to confirm.



8.1.3.4 *Picture frame*

Use this option to add a picture frame to the current picture. There are 16 picture frames to choose from. Press the joystick up or down to highlight the **Frame** option to set a picture frame.

Please refer to “ **3.4.2.7 Picture frame**” for detailed information.

8.1.3.5 *Rotate*

Use this option to rotate the current picture. Once you have confirmed the change, the new picture will be saved instead of the old one.

1. Press the Menu button.
2. Press the joystick up or down to highlight the **Rotate** option.
3. Press the joystick left or right to select from **90** or **270**.
4. Press in the joystick to confirm.



8.1.3.6 *Crop picture*

Use this option to adjust the size of the current picture.

To crop a picture:

1. Press the Menu button.
2. Press the joystick up or down to highlight the **Crop** option.
3. Press in the joystick to start adjusting.
4. Press the **T (Zoom in)** or **W (Zoom out)** button to adjust the size of the orange area, and the **joystick** to adjust the position of the orange area. Press in the joystick to confirm.



8.1.3.7 *Slide show*

Use this option to view all images without pressing any button.

1. Press the Menu button.
2. Press the joystick to



highlight the **Slide** option.

3. Press the joystick left or right to select from **Off**, **3 seconds**, **5 seconds** or **10 seconds**.
4. Press in the joystick to confirm.

8.1.3.8 *Voice memo*

Use this option to delete the voice memo of the current picture.

1. Press the Menu button.
2. Press the joystick to highlight the **Voice memo** option.
3. Press in the joystick to confirm.



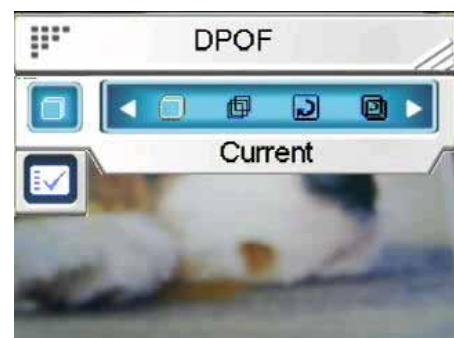
8.1.3.9 *DPOF*

Use the **DPOF** (Digital Print Order Format) function to tag pictures stored in memory with print information. You can tag the pictures to print.

DPOF requires an SD card. When all images to be printed are tagged, remove the memory card and take it to a photograph shop for printing, or use it with a **DPOF** compatible printer.

To set DPOF parameters:

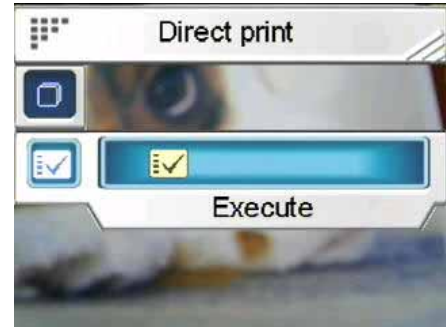
1. Press the joystick up or down to highlight the **DPOF** option.
2. Press the joystick left or right to select from **Current**, **All**, **Reset current** or **Reset all**.
 - **Current:** Enables you to tag current image to be printed.
 - **All:** Enables you to tag all images to be printed.



- **Reset current:** Clear the current tag.
 - **Reset all:** Clear all tags.
3. Press in the joystick to confirm.

8.1.3.10 *Direct print*

You can connect the camera to a printer and print images directly from the camera. Connect to a printer using the USB cable exactly the same way, as you would connect a PC. Select the **Direct print** option to connect to a printer when the menu appears.



8.2 *Video*

To enter **Video** playback mode:

1. Press the joystick left or right in the **Playback** mode to highlight the **Video** option.
2. Press in the joystick to confirm.

8.2.1 **Viewing videos**

After entering the Video playback mode, the videos saved either on the SD card or in the internal memory, will be shown by the first frame of the whole video.

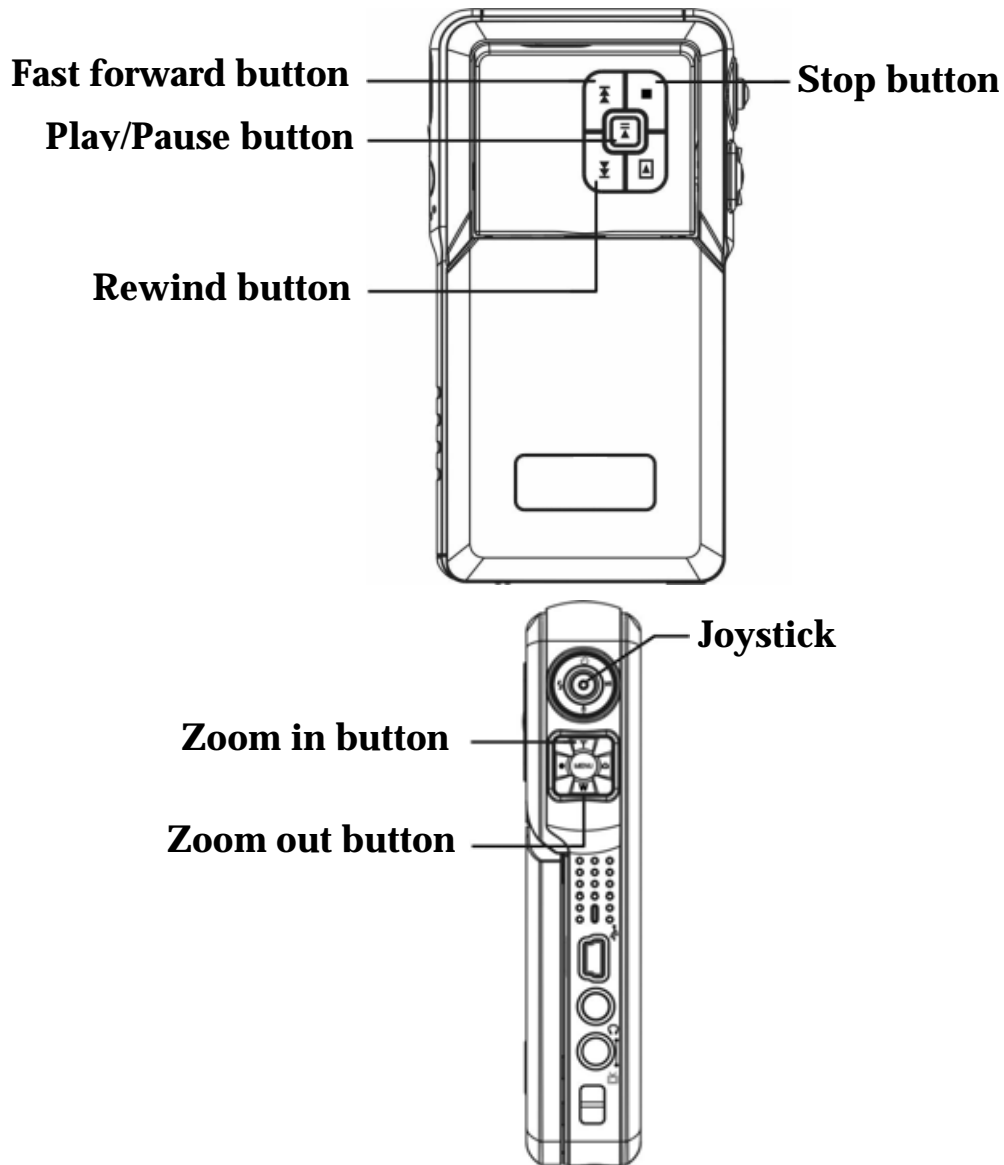
To view a video:


1. Press the joystick left or right to choose a video.
2. Press in the joystick to start playing, and press it again to stop.
3. Press the joystick left or right to play, rewind (2X, 4X, 8X, 10X) or fast forward (2X, 4X, 8X, 10X) when you are playing a video. Each press will change a playing speed.








8.2.2 Video playback mode buttons

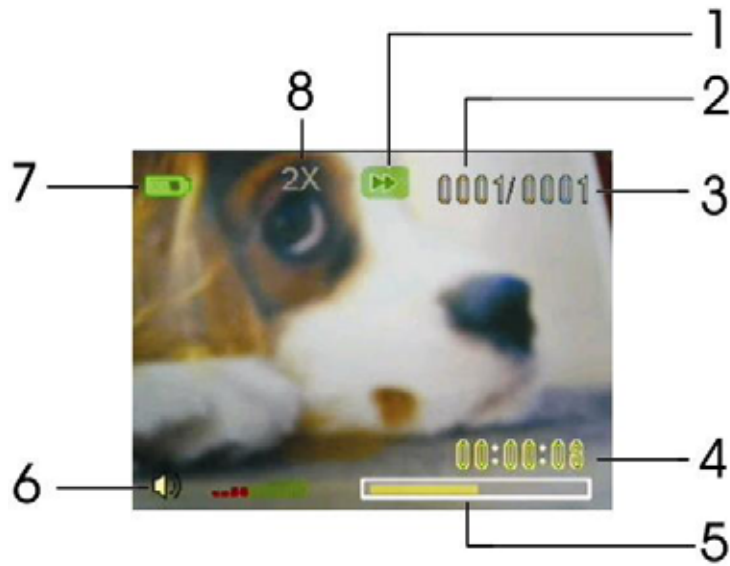
Refer to the table below for detailed functions of each button:



Icon	Button	Function
	T (Zoom in)	Use to adjust the volume.
	W (Zoom out)	

Icon	Button	Function
	Joystick (up/ down/ left/ down/ in)	<p>Press the joystick up: No function.</p> <p>Press the joystick down: Stop</p> <p>Press the joystick left: Rewind (2X, 4X, 8X, 10X).</p> <p>Press the joystick right: Fast forward (2X, 4X, 8X, 10X).</p> <p>Press in the joystick: Play/ pause.</p>
	Fast forward	Fast forward (2X, 4X, 8X, 10X).
	Rewind	Rewind (2X, 4X, 8X, 10X).
	Play/pause	Play/ pause
	Stop	Stop

8.2.3 Video play icons



Number	Description
1	Play status indicator. Stop, Play, or Pause.
2	Indicates the number of the present video.
3	Indicates the total video quantity.
4	Indicates the length of a video clip
5	Progress bar.
6	Volume indicator.
7	Battery status indicator.
8	Indicates the playing speed.

8.2.4 Video play menu

While viewing the video in **Video** playback mode, press the **Menu** button to configure the video playback settings.

Note: This function will be activated only when there is at least one video file in the SD card or the internal memory.

8.2.4.1 Delete

Use this option to delete videos.

1. Press the **Menu** button.
2. Press the joystick up or down to highlight the **Delete** option.
3. Press the joystick left or right to select **Current** or **All**.
4. Press in the joystick to confirm and press the **Menu** button again to exit the menu.



8.2.4.2 Protect

Use this option to protect videos from accidentally deleting or to unprotect videos that are protected.

1. Press the joystick up or down to highlight the **Protect** option.
2. Press the joystick left or right to select **Protect Current**, **Protect all**, **Unprotect current** or **Unprotect All**.
3. Press in the joystick to confirm and press the **Menu** button again to exit the menu.



8.2.4.3 *Continuous play*

Use this option to play one video or all videos continuously.

1. Press the Menu button.
2. Press the joystick up or down to highlight the **Customize** option.
3. Press the joystick left or right to select from **Off**, **Current** or **All**.
4. Press in the joystick to confirm and press the **Menu** button again to exit the menu.



8.3 *Voice*

To enter **Voice** playback mode:

1. Press the joystick left or right in the **Playback** mode to highlight the **Voice** option.
2. Press in the joystick to confirm.



8.3.1 **Listening to audio clips**

After entering the Voice playback mode, the play list will be shown on the LCD screen.

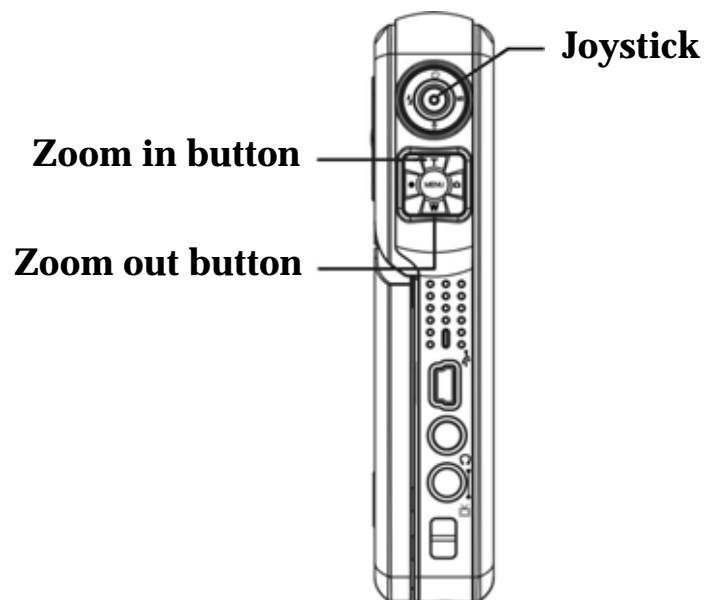
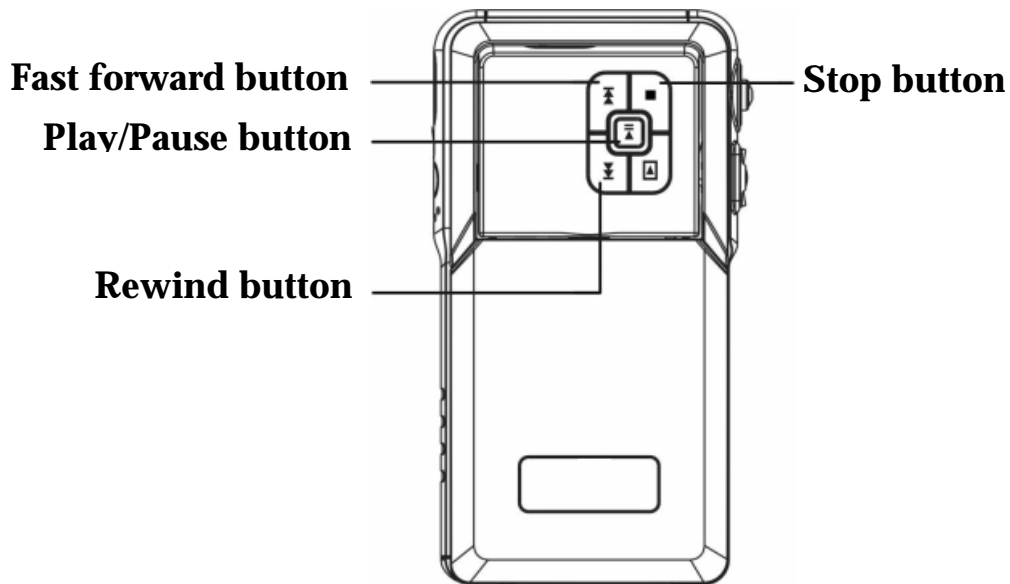
To play a voice file:







1. Press the joystick up or down to scroll through the voice files, and highlight a file you want to play.
2. Press in the joystick and the selected file will be shown by whole screen mode.



3. Press in the joystick to play or pause a file.
4. Press the joystick down to stop playing and press left (Rewind) or right (Fast forward) to select the previous or next file.

8.3.2 Voice playback mode buttons



Icon	Button	Function
	T/W (Zoom in/out)	Use to adjust the volume.
	Joystick (up/ down/ left/ down/ in)	<p>Press the joystick up: No function.</p> <p>Press the joystick down: Stop</p> <p>Press the joystick left/right: Previous/Next</p> <p>Press in the joystick: Play / pause.</p>
	Fast forward	Next
	Rewind	Previous
	Play/pause	Play / pause
	Stop	Stop

8.3.3 Voice Play icons



Number	Description
1	Indicates the present playing file.
2	Indicates the recorded date / time.
3	Indicates the length of the present file.
4	Volume indicator.
5	Play status indicator. Stop, Play, or Pause.
6	Playing process bar.

8.3.4 Voice playback menu

When the voice file is in **whole screen** mode, press the **Menu** button to configure the voice play settings.

Note: This function will be activated only when there is at least one voice file in the SD card or the internal memory.

8.3.4.1 Delete

Use this option to delete voice files.

1. Press the joystick up or down to highlight the **Delete** option.
2. Press the joystick left or right to select **Current** or **All**.
3. Press in the joystick to confirm.



8.3.4.2 *Protect*

Use this option to protect voice files from accidentally deleting or to unprotect voice files that are protected.

1. Press the joystick up or down to highlight the Protect option.
2. Press the joystick left or right to select **Protect Current**, **Protect all**, **Unprotect current** or **Unprotect All**.
3. Press in the joystick to confirm.



8.4 *Music*

Read this section and learn how to operate the camera as a Music player.

To enter **Music** mode:

1. Turn on the camera, and press the **Playback** button to enter Playback mode.
2. Press the joystick left or right to highlight the **Music** option.
3. Press in the joystick (Play/Pause button) to confirm.



8.4.1 Import Music files into the camera

Please refer to “**3.3.2.1 Mass storage**” to learn how to import files into the camera.

8.4.2 Play list and Music mode buttons

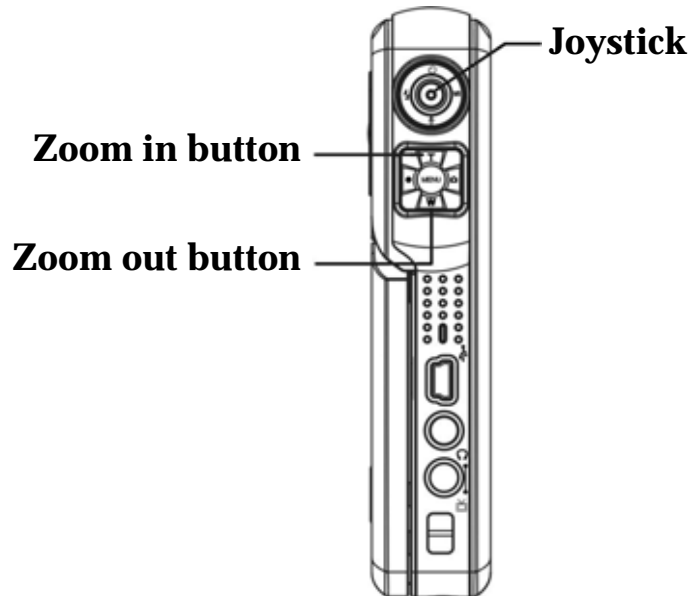
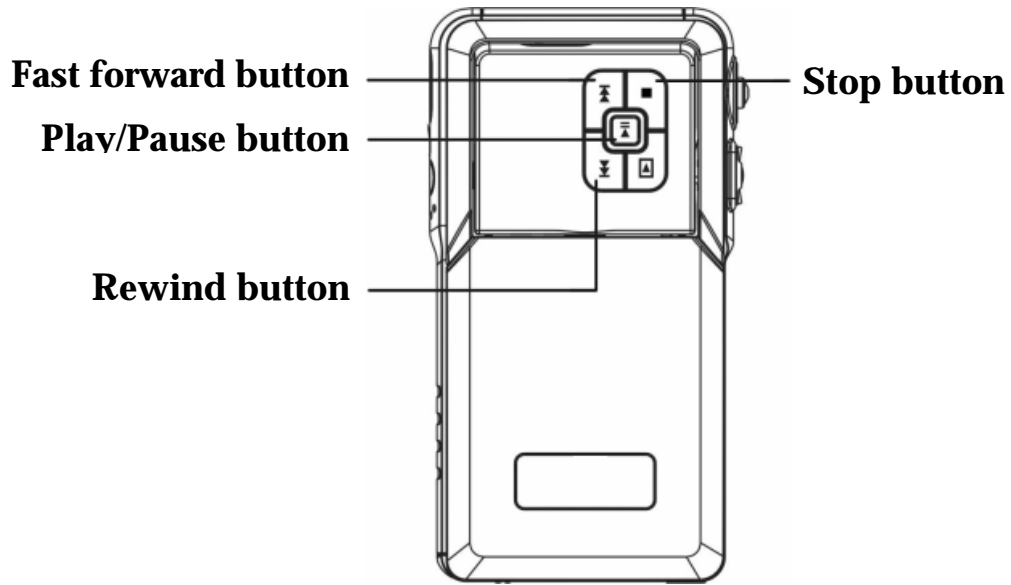
When entering the Music playback mode, a file list will be shown on the LCD screen.


To play a Music file:






1. Press the joystick up or down in the play list and highlight the file you want to play.
2. Press in the joystick (Play/Pause button) to start playing, and press it again to pause.
3. Press the joystick down to stop playing.
4. Press the joystick left or right (**Rewind** or **Fast forward** button) to move to the **previous / next** Music file.
5. To adjust the volume, press the **T (Zoom in)** or **W (Zoom out)** button
6. To return to the play list, press the joystick up.



Refer to the table below for detailed functions of each button:



Icon	Button	Function
	W (Zoom out)	Use to adjust the volume.
	T (Zoom in)	

Icon	Button	Function
	Joystick (up/ down / left/ down/ in)	Press the joystick up: Press to return to the play list. Press the joystick down: Stop Press the joystick left / right: Previous / next. Press in the joystick: Play / pause.
	Fast forward	Next
	Rewind	Previous
	Play/pause	Play / pause
	Stop	Stop

8.4.3 Music mode icons



Number	Description
1	Shows the album title.
2	Battery indicator.
3	Shows the playing file.
4	Playing time of the present file.
5	Play / pause.
6	Shows present repeat mode.
7	Shows present equalizer mode.
8	Volume indicator.
9	Progress bar

8.4.4 Music playback mode menu

In the file list mode, press the **Menu** button and configure the Music settings.

Note: This function will be activated only when there is at least one Music file in the SD card or the internal memory.

8.4.4.1 *Delete*

Use this option to delete Music files

1. Press the **Menu** button.
2. Press the joystick up or down to highlight the **Delete** option.
3. Press the joystick left or right to select from **Current** and **All**.
4. Press in the joystick to confirm.



8.4.4.2 *Protect*

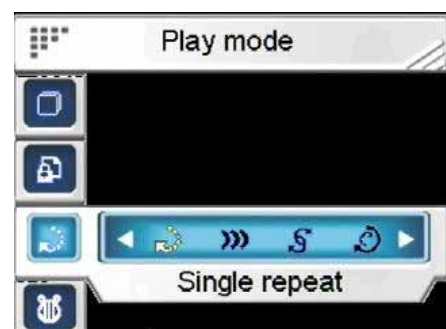
Use this option to protect Music files from accidentally deleting or to unprotect Music files that are protected.

1. Press the **joystick up or down** to highlight the **Protect** option.
2. Press the **joystick left or right** to select **Protect current**, **Protect all**, **Unprotect current** and **Unprotect all**.
3. Press in the joystick to confirm.



8.4.4.3 *Play mode*

Use this option to set a repeat mode.



To set a play mode:

1. Press the **Menu** button.
2. Press the joystick up or down to highlight the **Play mode**.
3. Press the joystick left or right to select from **Single repeat**, **Continuous**, **Shuffle**, or **Circular**.
4. Press in the joystick to confirm.

8.4.4.4 *Equalizer*

Use this option to set an equalizer.

To set an equalizer:

1. Press the **Menu** button.
2. Press the joystick up or down to highlight the **Equalizer**.
3. Press the joystick left or right to select from **Classical**, **Popular**, **Rock**, or **Jazz**.
4. Press in the joystick to confirm.

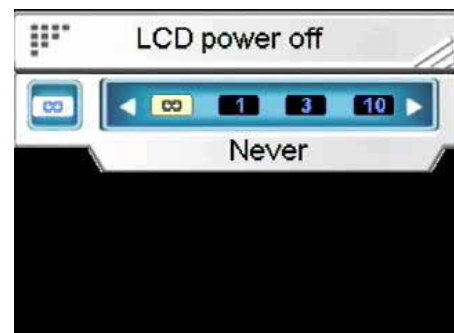


8.4.4.5 *LCD power off*

Use this option to set a time before the LCD automatically powers off in Music mode.

To set a LCD power off time:

1. Press the **Menu** button.
2. Press the joystick up or down to highlight the **LCD power off**.
3. Press the joystick left or right to select from **Never**, **1 min**, **3 min**, or **10 min**.
4. Press in the joystick to confirm.



8.5 Games

The camera also has many built-in games for entertainment.

To enter the **Game** mode:

1. Turn on the camera, and press the **Playback** button to enter Playback mode.
2. Press the joystick left or right to highlight the **Game** option.
3. Press in the joystick (Play/Pause button) to confirm.

To select a game:

1. Press the **joystick** left or right to select a game from **Sudoku, Tetris, Moving box** or **Lotto**.
2. Press in the joystick to confirm.
3. Press the Playback button to exit a game.



8.5.1 Sudoku

The players fill the grids with number from 1 to 9. Make sure that the number doesn't appear in the row and column and the number also shouldn't appear in the sub 3*3 squares.

1. Press the joystick left or right to select **Sudoku**, and press in the joystick to confirm.
2. Press the joystick left or right to scroll through the menu and select from **NEW, LOAD, SAVE, CHECK, SOLUTION, HELP** or **EXIT**.
3. Press in the joystick to confirm.



4. Press the **Playback** button to exit the contents and the game.

8.5.2 Tetris

The players move and rotate pieces of different shapes in such a way so as to complete one or more horizontal lines. Once the line is completed it will disappear. The purpose of Tetris game is not allowing the pieces to over-fill the board.

1. Press the joystick left or right to select **Tetris**, and press in the joystick to confirm.
2. Press the joystick left or right to move the piece left / right, and press the joystick up to change the shape.
3. Press the joystick down to lower down the piece faster.
4. Press in the joystick again to pause the game.
5. Press the **Menu** button to view the high score record.
6. Press the **Playback** button to exit the contents and the game.



8.5.3 Moving box

Press the joystick left or right to select **Moving box**, and press in the joystick to confirm.

Move the box to the specified position and make the ball disappear within the minimum steps. You will automatically enter the next round when the previous one is complete.



8.5.4 Lotto

1. Press the joystick left or right to select **Lotto**, and press in the joystick to confirm.
2. In the Setup screen press the joystick left or right to change fields, and use the joystick up or down to adjust the numbers.
3. Press in the joystick to begin, and press it again to create a group of lotto numbers.
4. Press the joystick right to start again, or press the joystick left to return to the setup screen.
5. Press the **Playback** button to exit the contents and the game.



9 Installing the Applications

9.1 Drivers

After installing the camera driver, you can use the camera as a “**Mass Storage device**” on the PC.

9.1.1 Camera Driver

This camera offers a Mass Storage function as a card reader device.

When the driver has been installed and the camera is connected, the camera memory and any installed mini SD card will appear as a **Mass Storage Device** in Windows Explorer. Files can be dragged and dropped in the same way as on an ordinary disk.

Before connecting the camera to the PC as a **PC camera**, follow the following instructions to finish the driver installation.

Please follow the instructions below:

1. Insert the supplied CD-ROM in the CD-ROM drive.
2. Use Windows Explorer to execute the **Setup.exe** file in the root directory.
3. The installation is configuring the window settings.



Note: Please install the XviD on your system, or else you may not be able to play the recorded videos on the PC.

10 Connect to a TV

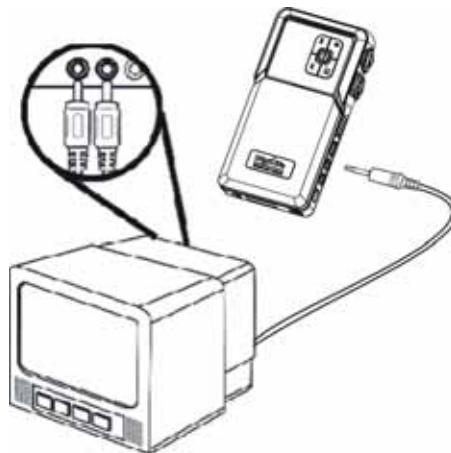
10.1 View photos and videos on the TV

You can connect the camera to a TV and use the TV screen to review your images and play back your video clips. In addition, you can also use this camera to record your favorite TV programs.

Before using the feature, you need to make sure that the output mode is correct. Please refer to "3.3.8 TV system" on page 17 to set the TV output mode.

To view photos and videos on the TV, please follow these instructions:

1. Turn on the camera, and press the **Playback** button to enter **Playback** menu.
2. Select a photo or video in **Photo** or **Video** playback mode, and press in the joystick to play.

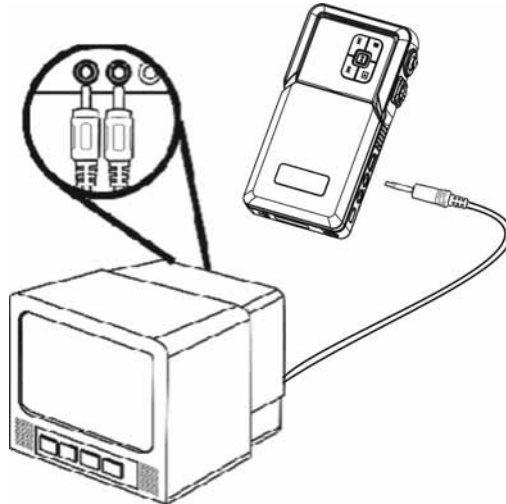


3. Connect the TV out jack on your camera to the audio / video input ports on your TV using the AV cable provided. The LCD screen turns off.
4. Follow the procedures described in "**8.1.1 Viewing photos**" on page 35 or "**8.2.1 Viewing videos**" on page 40 to play the files in your camera.

10.2 Recording TV programs

You can connect the camera to a TV to record your favorite TV program.

First, make sure that the AV cable has been connected with the TV properly.



Note: You can't hear the voice of the program when you are recording the TV program. But you can still hear the voice when playing back the recorded video file.

To record TV programs, please follow the procedure:

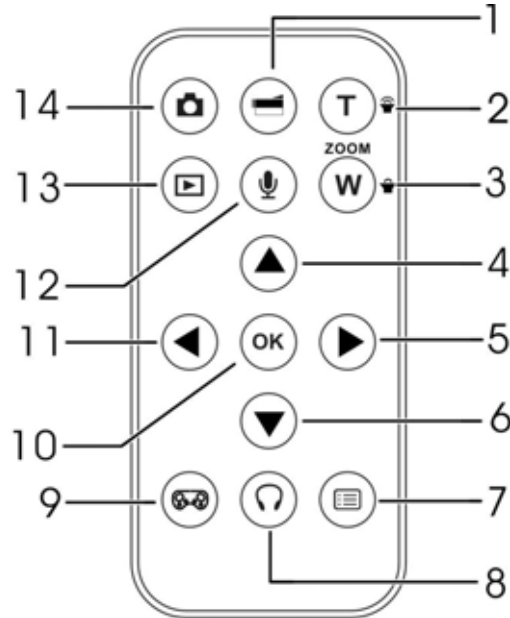
1. Connect the AV jack on your camera to the audio / video input ports on your TV using the AV cable provided.
2. Turn on the camera.
3. Press the Video button to start recording and press the button again to stop.

The video clip will be saved either on the SD card or in the internal memory with a unique file name.

11 Remote control

This camera provides IR remote control function.

Refer to the table below for button functions:



Number	Description
1	Use to start/stop video recording.
2	1. Use to zoom in / out.
3	2. Use to adjust volume in Music and Voice play modes.
4	1. Use to navigate the OSD menus. 2. Use to set self-timer.
5	1. Use to navigate the OSD menus. 2. Use to set White balance

<p>6</p>	<ol style="list-style-type: none"> 1. Use to navigate the OSD menus. 2. Use to enter voice recorder mode. 3. Use to record a 20 second voice memo when viewing photos.
<p>7</p>	<p>Use to enter/exit Settings menu.</p>
<p>8</p>	<p>Use to enter/exit Music mode.</p>
<p>9</p>	<p>Use to enter/exit Game mode.</p>
<p>10</p>	<p>Use to execute an action.</p>
<p>11</p>	<ol style="list-style-type: none"> 1. Use to navigate the OSD menus. 2. Use to set Flash mode.
<p>12</p>	<p>Use to enter voice recorder mode.</p> <ol style="list-style-type: none"> I. Press the OK button to start / stop recording. II. Double press the Playback button to leave the Voice recording mode and return to the preview mode.
<p>13</p>	<ol style="list-style-type: none"> 1. Use to enter Playback mode. 2. Use to return to the main list when in any sub menu in the Playback mode, and press it again to return to the preview mode.
<p>14</p>	<p>Use to capture image.</p>

Appendix

Specifications

General	
CCD Sensor Format	1/ 2.5"
Resolution (Image)	4032x3024 (12MP interpolation) 3072x2304 (7.1MP interpolation) 2592x1944 (5MP) 2048x1536 (3.1MP) 1280x960 (1.3MP) 640x480 (VGA)
Resolution (Video)	320x240 (QVGA) 640x480 (VGA) 720x480 (D1)
Physical Size	122 x 66 x 25 (mm)
Video Clips	30 fps @QVGA, 30 fps @VGA. 30fps@D1
Audio	Microphone, Speaker
DC-in	N/A
Image LCD	2.5" LTPS TFT LCD
Battery	(1050mAH) NP60 Lithium Ion Battery

General	
Interfaces	USB 2.0 high speed
Internal memory	32MB NAND
Removable memory card	Removable Secure Digital (SD) memory
Case material	Plastic
AC Adapter	Yes
TV out	Video / Audio output (Stereo)
AV	Video / Audio input (Stereo)
Boot-up time	<= 2 Secs, start from pressing the Power button/open the LCD plate
Shot to shot time	<= 4 Secs (5M).
Flash	Flash off/Auto Flash/Force flash/Slow sync flash
Zoom	8X digital zoom
Focus distance	People:60~110cm; Mountain:100cm~infinity

***Manual and Specification subject to change without prior notice*

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