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## WEEE Warning Message

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### Symbol for Separate Collection in European Countries

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

The following apply only to users in European countries:

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



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## FCC STATEMENT

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1). This device may not cause harmful interference, and
- (2). This device must accept any interference received, including interference that may cause undesired operation.

### **Note:**

This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference

to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected

Use of shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

## **Product Information**

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1. Product design and specifications are subject to change without notice. This includes primary product specifications, software, software drivers, and user's manual. This User Manual is a general reference guide for the product.
2. The product and accessories that come with your camera may be different from those described in this manual. This is due to the fact that different retailers often specify slightly different product inclusions and accessories to suit their market requirements, customer demographics, and geographical preferences. Products very often vary between retailers especially with accessories such as batteries, memory cards, cables, carrying cases/pouches, and language support. Occasionally a retailer will specify a unique product color, appearance, and internal memory capacity. Contact your dealer for precise product definition and included accessories.
3. The illustrations in this manual are for the purpose of explanation

- and may differ from the actual design of your camera.
- The manufacturer assumes no liability for any errors or discrepancies in this user manual.
  - For driver updates, you can check the “Download” section of our website, [www.geniusnet.com](http://www.geniusnet.com)

## SAFETY INSTRUCTIONS

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

### Warnings

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

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



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

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



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

This might cause fire or electric shock. For repair or internal inspection, ask the store of purchase.



- **Do not use the camera in areas near water.**

This might cause fire or electric shock. Take special care during rain, snow, on the beach, or near the shore.



- **Do not place the camera on inclined or unstable surfaces.**

This might cause the camera to fall or tilt over, causing injury.



- **Keep the batteries out of the reach of children.**

Swallowing batteries might cause poisoning. If the battery is accidentally swallowed, immediately consult a physician.



- **Do not use the camera while you are walking, driving or riding a motorcycle.**



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This might cause you to fall over or result in traffic accident.

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## Cautions

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- **Insert the batteries paying careful attention to the polarity (+ or -) of the terminals.**

Inserting the batteries with its polarities inverted might cause fire and injury, or damage to the surrounding areas due to the battery rupturing or leaking.



- **Do not fire the flash close to anyone's eyes.**

This might cause damage to the person's eyesight.



- **Do not subject the LCD monitor to impact.**

This might damage the glass on the screen or cause the internal fluid to leak. If the internal fluid enters your eyes or comes into contact with your body or clothes, rinse with fresh water.

If the internal fluid has entered your eyes, consult a physician to receive treatment.



- **A camera is a precision instrument. Do not drop it, strike it or use excessive force when handling the camera.**

This might cause damage to the camera.



- **Do not use the camera in humid, steamy, smoky, or dusty places.**

This might cause fire or electric shock.



- **Do not remove the battery immediately after long period of continuous use.**

The battery becomes hot during use. Touching a hot battery might cause burns.



- **Do not wrap the camera or place it in cloth or blankets.**

This might cause heat to build up and deform the case, resulting in fire. Use the camera in a well-ventilated place.



- **Do not leave the camera in places where the temperature may rise significantly, such as inside a car.**

This might adversely affect the case or the parts inside, resulting in fire.



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**■ Before you move the camera, disconnect cords and cables.**

Failure to do this might damage cords and cables, resulting in fire and electric shock.

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## **Notes on Battery Usage**

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

- Different battery types and surrounding temperatures may affect the battery performance.
- Avoid using batteries in extremely cold environments as low temperatures can shorten the battery life and reduce camera performance.
- The battery may feel warm when using the camera for an extended period of time or using the flash continuously. This is normal and not a malfunction.
- The digital video camera may feel warm when being used continuously or for an extended period of time. This is normal and not a malfunction.
- If you will not be using the batteries for an extended period of time, remove them from the camera to prevent leakage or corrosion.
- Always keep the terminals in a clean state.
- Never use manganese batteries.
- Risk of explosion if battery is replaced by an incorrect type.
- Use only the type of battery that came with your camera. Using any other type of battery may damage the equipment and invalidate the warranty.

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# 1 Introducing the camera

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Read this section to learn about the features and functions of the video camera. This chapter also covers system requirements, package contents, and descriptions of the hardware components.

## 1.1 System requirements

The video camera requires a PC with the following specifications:

- Windows® XP, 2000, Vista (32bit) operating system
- Intel® Pentium III 500MHz CPU or higher
- At least 32 MB of RAM or higher
- Standard USB 1.1 port or higher
- 4x speed CD-ROM drive or higher
- At least 200MB of available disk space

**Note:** A USB 1.1 port will enable you to transfer files to and from your host PC, but transfer speed will be much faster with a USB 2.0 port.

## 1.2 Features

The video camera offers a variety of features and functions including:

- Digital camcorder
- Voice recorder
- Digital camera (max. 12 Megapixels)

Additionally, the camera also features 4X digital zoom, USB mass storage, and an SD card reader.

## 1.3 Unpacking the video camera

The following items should be present in the package. If any item is missing or appears damaged, contact your dealer immediately.



Video camera



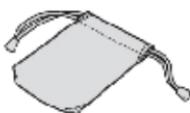
USB AV cable



4 x AAA alkaline  
batteries



Wrist strap



Pouch



CD-ROM  
(Driver and  
application software)



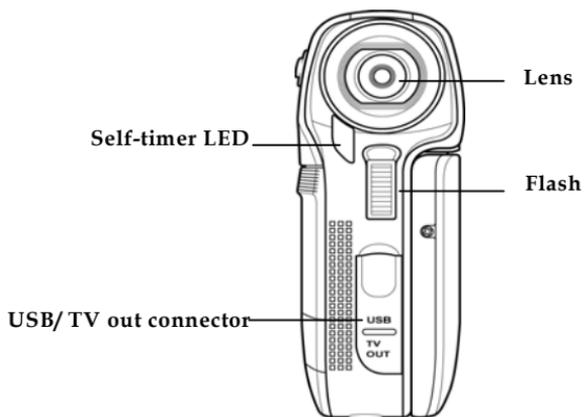
Quick Start Guide



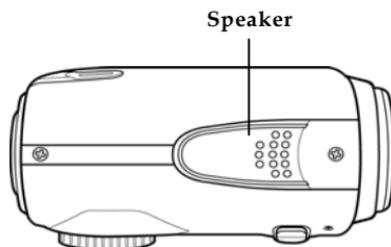
## 1.4 About the camera

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

### 1.4.1 Front view

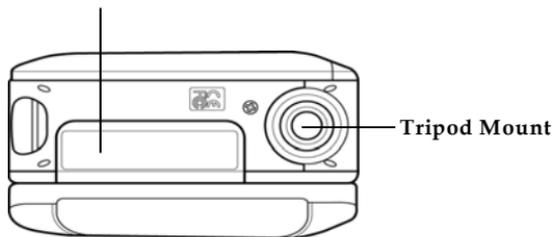


### 1.4.2 Top view

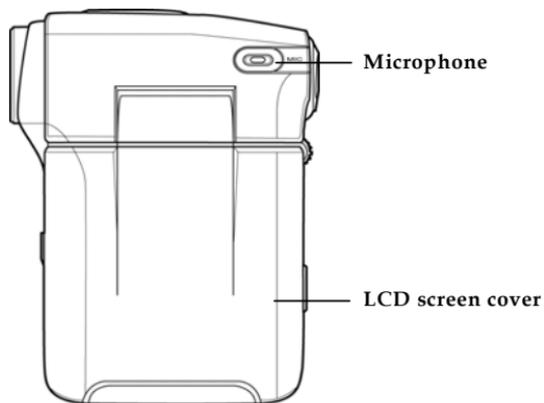


### 1.4.3 Bottom view

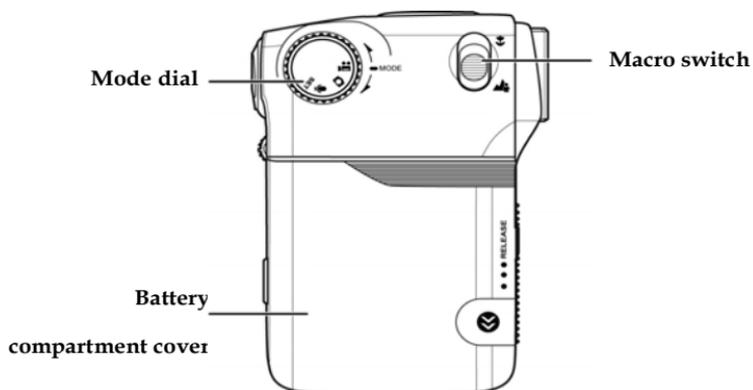
SD/MMC card compartment cover



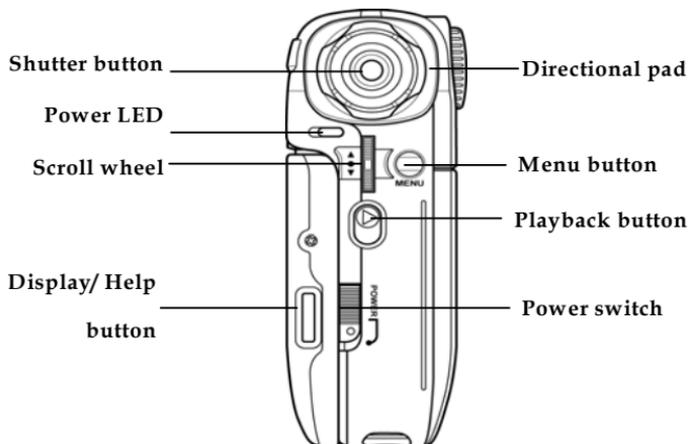
### 1.4.4 Right view



### 1.4.5 Left View

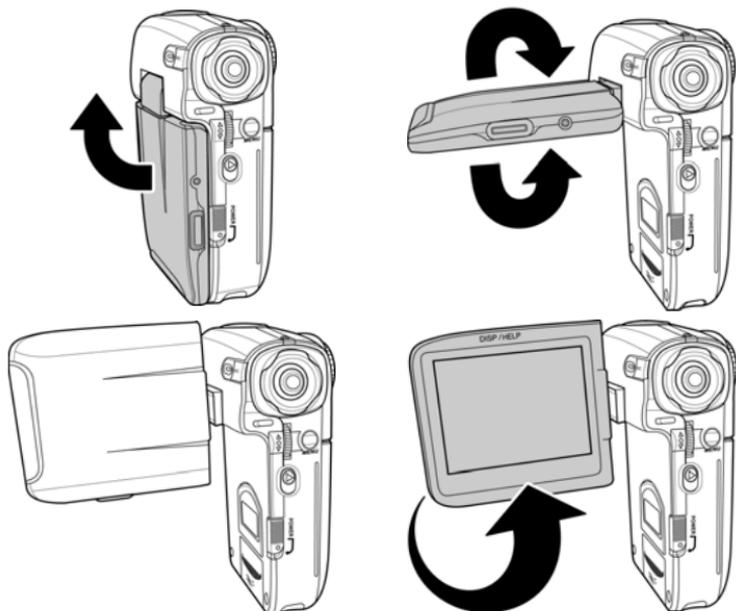


## 1.4.6 Back View



## 1.4.7 Adjusting the LCD display

Flip and twist the LCD screen as shown while capturing a still image or recording a video clip.



See the table below for a description of each button's function.

Button	Name	Function
	Power switch	Slide the power switch down to turn power on/off.
	Menu button	Press to display main OSD menus.
	Mode dial	Use to toggle <b>Movie</b> , <b>Photo</b> , <b>Voice</b> , and <b>SET</b> modes.
	Directional pad	<ul style="list-style-type: none"> <li>● In <b>Photo</b> mode, press the directional pad up to select image size, press down to select image quality, press right to select selftimer, and press left to select flash mode.</li> <li>● In <b>Movie</b> mode, press up to select image size, press down to select image quality, press right to select color effect, and press left to select white balance.</li> <li>● In <b>Movie/ Photo/ Voice Playback</b> mode, press left/right to select files to playback, press up to select files to delete, press down to select files to protect.</li> </ul>

		<ul style="list-style-type: none"> <li>● In <b>SET</b> mode, press up/down to select menu items.</li> </ul>
	Shutter button	<ul style="list-style-type: none"> <li>● In <b>Movie/Voice</b> mode, press to begin or stop recording.</li> <li>● In <b>Photo</b> mode, press to take a photo.</li> <li>● In <b>Movie/Voice Playback</b> mode, press to start or stop playback.</li> <li>● In <b>Photo Playback</b> mode, press to switch to thumbnail view.</li> </ul>
	Macro switch	Move the switch to the  position to enable <b>Macro</b> mode.
	Playback button	Press to enter playback mode.
	Display/Help button	Press once to display all OSD icons. Press again to turn all OSD icons off. Press a third time to display help diagrams, explaining all button functions.
	Scroll wheel	<ul style="list-style-type: none"> <li>● In <b>Movie/Photo</b> mode, move up to zoom in, and down to zoom out.</li> <li>● In <b>Movie Playback/Voice Playback</b> mode, press inwards to pause playback. Press again to resume.</li> </ul>

- |  |  |   |
|--|--|---|
|  |  | <ul style="list-style-type: none"><li>● In <b>Movie Playback/ Voice Playback</b> mode, move up/down to adjust playback volume.</li><li>● In <b>Photo Playback</b> mode, move up/down to select the image you want to view. Press inwards and then move up and down to zoom in and out of a photo.</li><li>● In <b>SET</b> mode, move up and down to highlight menu items and press inwards to select items.</li></ul> |
|--|--|---|

## 2 Getting started

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Read this section to learn how to start using the video camera. This section covers basic functions such as switching on, inserting the battery and memory cards, and configuring preliminary settings. See later chapters for advanced functions.

### 2.1 Inserting an SD card

An SD card can be installed in the video camera to provide additional storage space for still images, video clips, or other files.

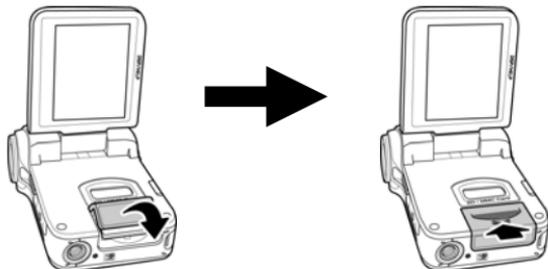
1. Open the LCD screen cover and open the SD card compartment cover.



2. Insert an SD card as shown. Make sure the gold contacts are facing away from the battery.



3. Close the SD card compartment cover.



## 2.2 Inserting the batteries

This video camera is designed to use four AAA batteries. Only use the battery supplied or similar battery recommended by the manufacturer or your dealer.

**Note:** Install the batteries exactly as described here. Ensure that the polarity of the batteries is correct. Installing the batteries incorrectly could cause damage to the camera and possibly start a fire.

1. Open the battery compartment cover.



2. Insert the batteries as shown.



3. Close the battery compartment cover.

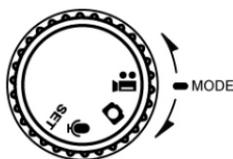


## 2.3 Turning on for the first time

Slide the power switch to turn the video camera on/off.

## 2.4 Changing modes

The video camera can operate in four modes, **Movie**, **Photo**, **Voice**, and **SET**. Move the mode dial to toggle different modes.



1		Movie mode
2		Photo mode
3		Voice mode
4	<b>SET</b>	System settings

## 2.5 Before you start

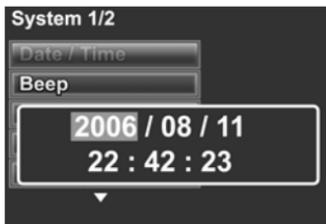
Before you start using the video camera, some basic settings such as date and time and languages need to be configured.

### 2.5.1 Setting the date and time

1. Turn on the video camera, and move the mode dial to **SET**. Move the scroll wheel up/ down to highlight **Date/ Time**. Press the scroll wheel inwards to confirm.



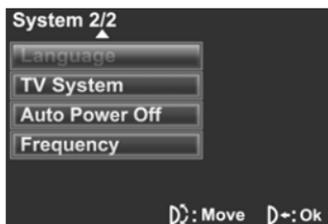
2. Press left/ right on the directional pad to highlight each field.



3. Adjust each value by pressing the directional pad up and down. Press the scroll wheel inwards to save your changes.

## 2.5.2 Setting the language

1. Turn on the video camera, and rotate the mode dial to **SET**. Move the scroll wheel up/ down to highlight **Language**. Press the scroll wheel inwards to confirm.



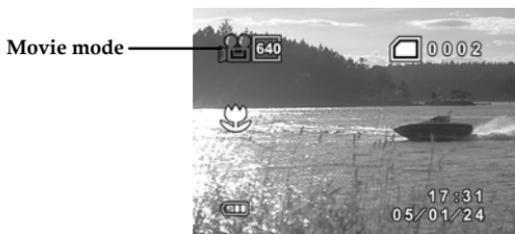
2. Use the scroll wheel to select the desired language. After the language is selected, press the scroll wheel inwards to confirm.



## 2.6 Shooting/ Playing videos

### 2.6.1 Shooting a video clip

1. Turn on the video camera and switch to **Movie** mode.



2. Use the LCD screen to frame the video.
3. Press the **Shutter** button to start recording.
4. Press the **Shutter** button again to stop recording.
5. The video clip is automatically saved with a unique file name.

#### Notes:

The maximum file size of each video recording file is 2G.

The size and quality affect the length of the recording.

High resolution and high quality settings will result in larger files, and therefore shorter length.

## 2.6.2 Playing back a video clip

1. In **Movie** mode, press the **Playback** button and the most recent file displays on the LCD screen.



2. Press the directional pad left and right to scroll through the video clips. Press the **Shutter** button to playback the video clip.
3. To pause while playing back the video clip, press the scroll wheel inwards.
4. When viewing the video clip, move the scroll wheel up and down to adjust the volume.
5. Press the **Shutter** button to stop playing.
6. To delete the current file, press the directional pad up. Highlight the **OK** option and press the **Shutter** button to confirm.
7. Press the directional pad down to protect the current file. An icon  displays on the screen when the file is protected. Press the directional pad down again to unlock the file.
8. Press the **Playback** button again to return to **Movie** mode.

## 2.7 Taking/ viewing pictures

### 2.7.1 Taking a still picture

1. Turn on the camera and switch to **Photo** mode.



2. Use the LCD screen to frame the picture.
3. Press the **Shutter** button to capture the image.
4. The picture is automatically saved with a unique file name.

## 2.7.2 Viewing images

1. In **Photo** mode, press the **Playback** button and the most recent image displays on the LCD screen.



2. Press the directional pad left and right to scroll through the images.
3. Press the scroll wheel inwards to scale the image. Use the scroll wheel to move the zoomed image up and down, left and right.
4. Press the directional pad up to display the **Delete** option. Use the directional pad to choose **OK** to delete the current picture.
5. Press the directional pad down to protect the current picture. An icon  displays on the screen when the file is protected. Move the directional pad down again to unlock the picture.
6. Press the **Playback** button again to return to **Photo** mode.

## 2.8 Voice recording

### 2.8.1 Taking a voice recording

1. Turn on the video camera and switch to **Voice** mode.



2. Press the **Shutter** button to start recording.
3. Press the **Shutter** button again to stop.
4. The voice file will automatically be saved with a unique file name.

## 2.8.2 Playing back a voice file

1. In **Voice** mode, press the **Playback** button and the most recent file is displayed on the LCD screen.

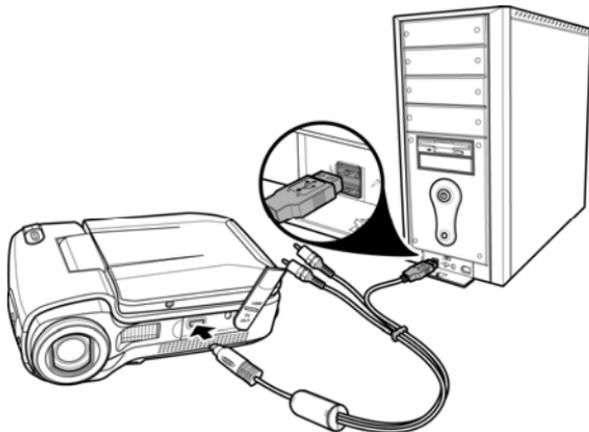


2. Press the directional pad left and right to select the voice file you want to play. Press the **Shutter** button to playback the voice file.
3. When playing a voice file, use the scroll wheel to adjust the volume.
4. Press the scroll wheel inwards to pause playback.
5. Press the **Shutter** button again to stop.
6. Press the directional pad up to delete the current file. Use the directional pad to highlight **OK** and press the **Shutter** button to confirm.
7. Press the directional pad down to protect the file. An icon  displays on screen when the file is protected. Press the directional pad down again to unlock the file.
8. Press the **Playback** button to return to **Voice** mode.

## 2.9 Connecting to a computer

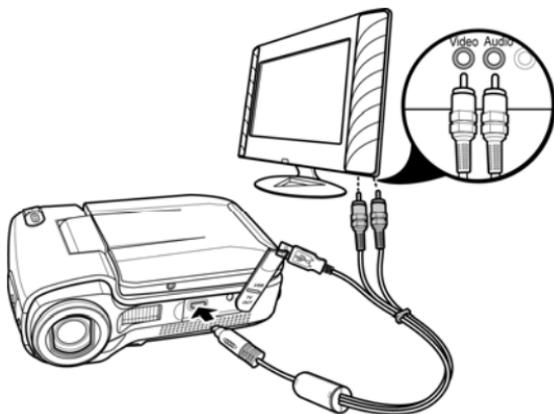
Read this section to learn how to transfer files to a PC, show the video clips or photos on a TV.

Connect the video camera to a computer with the USB AV cable provided.



## 2.10 Connecting to a TV

Connect the video camera to a TV as shown with the USB AV cable provided.



## 3 Using the camera

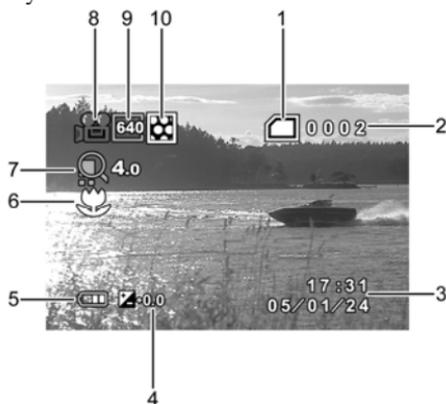
Read this section to learn how to use the camera.

### 3.1 Movie mode

Use **Movie** mode to capture video clips and store them in internal memory or on an SD card.

#### 3.1.1 Movie mode icons

Use the following picture to familiarize yourself with the **Movie** mode icons and symbols.



See the table below for a description of each icon and symbol.

1		Memory status indicator : indicates that an SD card is inserted : indicates that SD card is used : indicates SD card is not inserted
2	0002	Displays the number of files saved
3	17:31 05/01/24	Date and time

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4		EV compensation indicator
5		Battery indicator
6		Macro indicator
7		Zoom indicator
8		Video mode indicator
9		Image size indicator
10		Image quality indicator

### 3.1.2 Quick access menu

You can also make adjustments to the current settings by pressing the directional pad or the scroll wheel inwards.

In **Movie** mode, use the directional pad to display the quick access menu, where you can adjust file size, image quality, color effects, and white balance settings. Press the scroll wheel inwards to display the EV compensation setting.



To make adjustments, do the following:

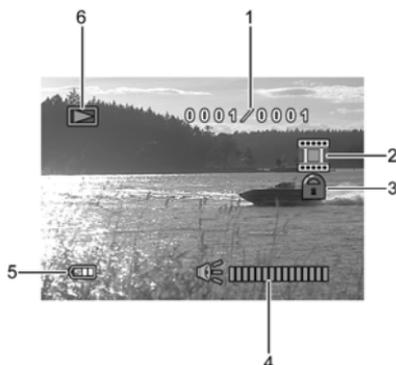
1. Press the directional pad up to select file size options.
2. Press the directional pad down to select image quality options.
3. Press the directional pad right to select color effect options.
4. Press the directional pad left to select white balance options.
5. Press the scroll wheel inwards to display the EV compensation. Move the scroll wheel up and down to adjust the EV value and press inwards to confirm.

## 3.2 Movie Playback mode

Use **Movie Playback** mode to review all the movie files stored in the video camera.

### 3.2.1 Movie Playback mode icons

Refer to the following picture to familiarize yourself with the **Movie Playback** mode icons and symbols.



See the table below for a description of each icon and symbol.

1	0001/0001	Displays the number of current video and the total number of taken video clips
2		Shows current file type
3		File protect indicator
4		Volume level
5		Battery status indicator
6		Playback mode icon

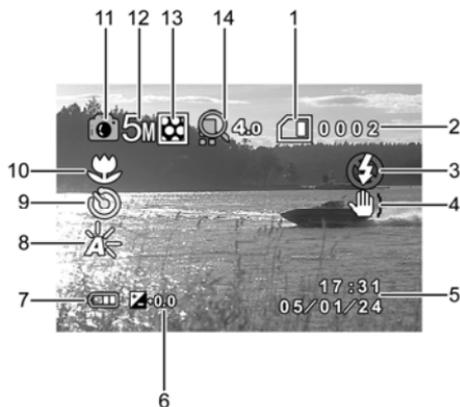


## 3.3 Photo mode

Use **Photo** mode to capture still pictures and store them in the internal memory or on an SD card.

### 3.3.1 Photo mode icons

Use the following picture to familiarize yourself with the **Photo** mode icons and symbols.



See the table below for a description of each icon and symbol.

1		Memory status indicator  : indicates that an SD card is inserted  : indicates that SD card is used  : indicates SD card is not inserted
2	0002	Displays the number of files saved
3		Flash indicator

4		'Do not shake camera' indicator
5		Date and time
6		EV compensation indicator
7		Battery indicator
8		White balance indicator
9		Self-timer indicator
10		Macro indicator
11		Photo mode indicator
12		File size indicator
13		Image quality indicator
14		Zoom indicator

### 3.3.2 Using the macro function

This function can capture subjects close to the lens. In macro mode, subjects can be as close as 15-16 cm.

While in **Photo** mode, move the macro switch on the side of the video camera to activate macro function, and an icon  displays on the LCD screen.

Move the macro switch again to cancel the macro function.

### 3.3.3 Using the zoom function

The camera is equipped with 4X digital zoom.

Move the scroll wheel **up** to get closer to a subject.

Move the scroll wheel **down** to move away from a subject.

The zoom ratio is displayed on the screen.

### 3.3.4 Quick access menu

You can also make adjustments of the current settings by pressing the directional pad or scroll wheel.

In **Photo** mode, use the directional pad to display the quick access menu, where you can adjust image size, self-timer, image quality, and flash settings. Press the scroll wheel inwards to display the EV compensation setting.



To make adjustments, do the following:

1. Press the directional pad up to select file size options.
2. Press the directional pad down to select image quality options.
3. Press the directional pad left to select the flash mode.
4. Press the directional pad right to select selftimer.

5. Press the scroll wheel inwards to display the EV compensation. Move the scroll wheel up or down to adjust the EV value and press inwards to confirm.

## 3.4 Photo Playback mode

Use **Photo Playback** mode to review all the image files stored in the video camera.

### 3.4.1 Photo Playback mode icons

Refer to the following picture to familiarize yourself with the **Photo Playback** mode icons and symbols.



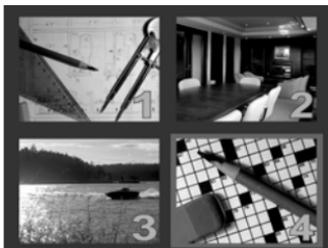
See the table below for a description of each icon and symbol.

1	0001/0001	Displays the number of current image and the total number of taken pictures
2		File protect indicator
3		Playback mode icon
4		Battery status indicator

### 3.4.2 Thumbnail mode

When in **Photo Playback** mode, press the **Shutter** button to show image as thumbnails.

1. Turn on the video camera and make sure it is in **Playback** mode.
2. The most recent image displays on the screen. Press the **Shutter** button to view **four** thumbnail images on the LCD screen.



3. Use the directional pad to highlight an image, press the **Shutter** button to view the image in full screen mode.
4. Press the **Shutter** button again to return to thumbnail view.

**Note:** Only image files are shown in thumbnail mode.

## 3.5 Voice mode

Use **Voice** mode to record a voice file and store it in internal memory or on an SD card.

### 3.5.1 Voice mode icons

Refer to the following picture to familiarize yourself with the **Voice** mode icons and symbols.



See the table below for a description of each icon and symbol.

1	Displays the number of voice files recorded
2	Displays recording time

## 3.6 Voice Playback mode

Use **Voice Playback** mode to play all the voice recordings stored in the video camera.

### 3.6.1 Voice Playback mode icons

Refer to the following picture to familiarize yourself with the **Voice Playback** mode icons and symbols.



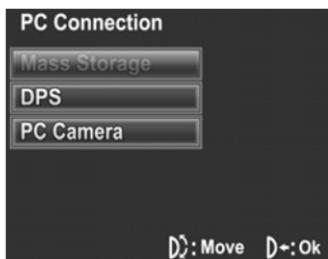
See the table below for a description of each icon and symbol.

1	0001/0001	Displays the number of current recording and the total number of recordings
2		Volume level
3		Playback mode icon
4		Battery status indicator

## 3.7 USB mode

You can use USB mode to connect to a printer or a host PC. Before connecting to a printer or PC, refer to “Installing software and drivers” on page 70.

When the video camera is connected to a computer or printer using the USB AV cable, the following menu displays.



Use the directional pad to highlight an option and press the scroll wheel inwards to confirm.

### 3.7.1 Using the PC cam feature

When set as a PC cam, the video camera can be used as a webcam for video conferencing.

### 3.7.2 Using the mass storage feature

When used as a USB mass storage device, the video camera displays as a removable drive in Windows Explorer. Drag and drop files to and from the removable drives just like any other storage devices.

### 3.7.3 Using DPS feature

Connect to a printer using the USB AV cable exactly in the same way, as you would connect a PC.

## 4 Using the menus

Read this section to learn how to configure the camera settings and use the advanced features.

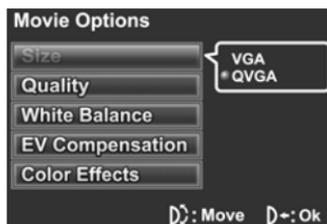
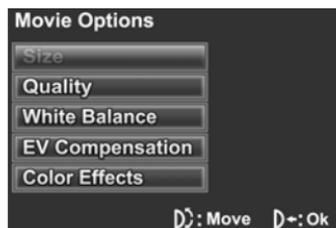
### 4.1 Movie menu

When in **Movie** mode, press the **MENU** button to show the Movie Options menu.

#### 4.1.1 Video size

Use this option to set the size of the captured video clips. Larger video sizes contain more details and therefore use more memory space.

1. Turn the video camera on and ensure it is in **Movie** mode.
2. Press the **MENU** button and use the scroll wheel to highlight the **Size** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **VGA** or **QVGA**. Press the scroll wheel inwards to confirm.



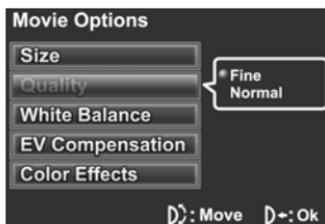
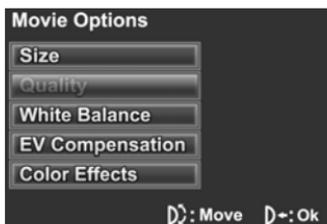
4. Press the **MENU** button again to exit the menu.



## 4.1.2 Video quality

There are two different levels of video quality setting. Higher quality video needs more memory storage space.

1. Turn the video camera on and ensure it is in **Movie** mode.
2. Press the **MENU** button and use the scroll wheel to highlight the **Quality** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **Fine** or **Normal**. Press the scroll wheel inwards to confirm.

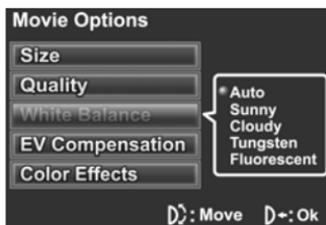
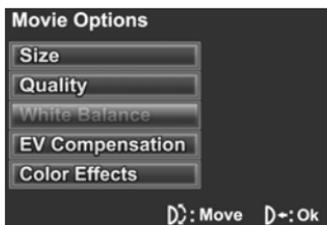


4. Press the **MENU** button again to exit the menu.

### 4.1.3 White balance

Use this option to correct color difference for different lighting conditions. When white balance is set to **Auto**, the video camera automatically compensates for different lighting conditions.

1. Turn the video camera on and ensure it is in **Movie** mode.
2. Press the **MENU** button and use the scroll wheel to highlight the **White Balance** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **Auto**, **Sunny**, **Cloudy**, **Tungsten**, or **Fluorescent**. Press the scroll wheel inwards to confirm.

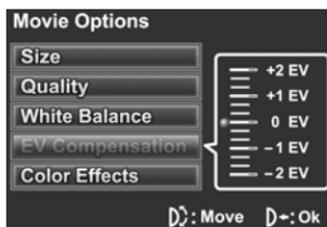
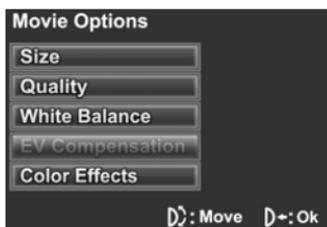


4. Press the **MENU** button again to exit the menu.

#### 4.1.4 Exposure adjustment (EV)

Use this setting to change the exposure for pictures. Usually, this value is set to **zero**. Increase the value to light up a subject with strong back lighting, or decrease the value if taking a picture of something very bright.

1. Turn the video camera on and ensure it is in **Movie** mode.
2. Press the **MENU** button and use the scroll wheel to highlight the **EV Compensation** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to adjust EV value, which ranges from **-2 EV** to **+2 EV**. Press the scroll wheel inwards to confirm.

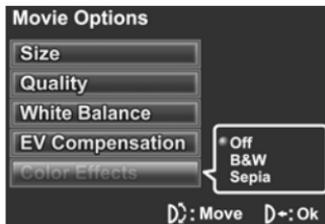
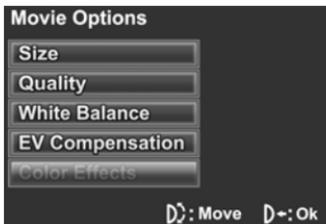


4. Press the **MENU** button again to exit the menu.

## 4.1.5 Color effect

The camera can capture standard color images, black and white images, or sepia tone to give an old-fashioned look.

1. Turn the video camera on and ensure it is in **Movie** mode.
2. Press the **MENU** button and use the scroll wheel to highlight the **Color Effects** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **Off**, **B&W**, or **Sepia**. Press the scroll wheel inwards to confirm.



4. Press the **MENU** button again to exit the menu.

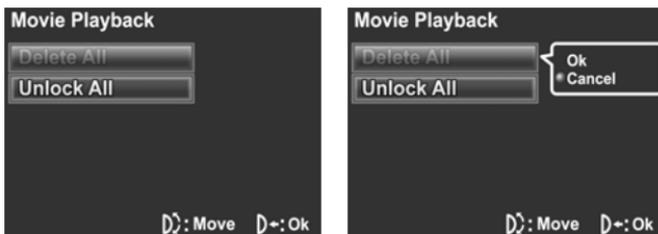
## 4.2 Movie playback menu

Use the playback menu to manage the files stored in the internal memory or on the SD card.

### 4.2.1 Delete All

Use this function to delete files.

1. Turn the video camera on and ensure it is in **Movie** mode. Press the **Playback** button and then press the **MENU** button to display **Movie Playback** menu.
2. Use the scroll wheel to highlight the **Delete All** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **OK** or **Cancel**. Press the scroll wheel inwards to confirm.



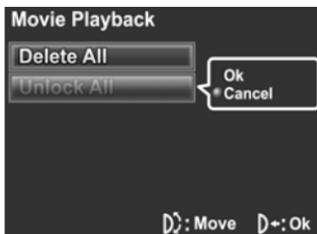
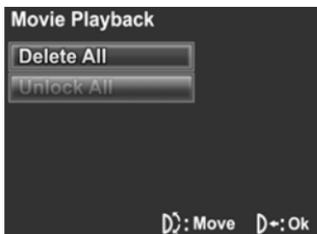
4. Press the **MENU** button again to exit the menu.

**Note:** Once deleted, files cannot be recovered. Make sure the files are transferred to PC via the USB AV cable or saved to other storage devices. Files that have been protected will not be deleted. You have to unlock the files first before deleting them.

## 4.2.2 Unlock All

Use this function to unlock files that are protected to prevent accidental deletion.

1. Turn the video camera on and ensure it is in **Movie** mode. Press the **Playback** button and then press the **MENU** button to display **Movie Playback** menu.
2. Use the scroll wheel to highlight the **Unlock All** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **OK** or **Cancel**. Press the scroll wheel inwards to confirm.



4. Press the **MENU** button again to exit the menu.

**Note:** To lock a file, press the directional pad down in **Playback** mode. A lock icon  is displayed to show that the file is protected.

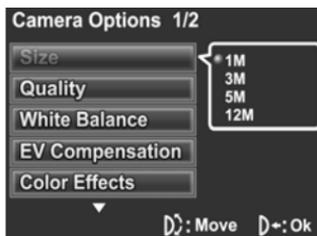
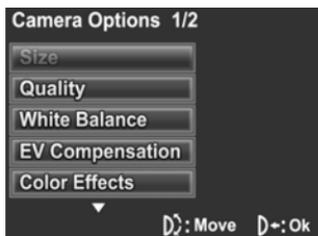
## 4.3 Picture menu

In **Photo** mode, press the **MENU** button to show the Camera Options menu.

### 4.3.1 Size

Use this option to set the size of the captured image. Larger images contain more details and therefore use more memory space.

1. Turn the video camera on and ensure it is in **Photo** mode.
2. Press the **MENU** button and use the scroll wheel to highlight the **Size** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **1M**, **3M**, **5M**, or **12M**. Press the scroll wheel inwards to confirm.

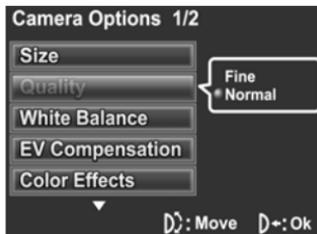
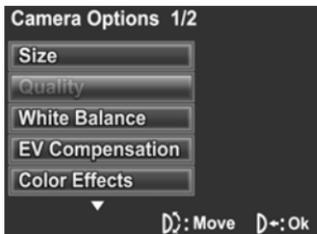


4. Press the **MENU** button again to exit the menu.

### 4.3.2 Image quality

Use this option to set the quality of the captured image. Higher quality images contain more details and therefore use more memory space.

1. Turn the video camera on and ensure it is in **Photo** mode.
2. Press the **MENU** button and use the scroll wheel to highlight the **Quality** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select from **Fine**, or **Normal**. Press the scroll wheel inwards to confirm.

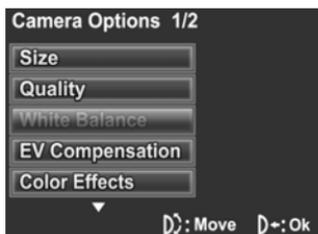


4. Press the **MENU** button again to exit the menu.

### 4.3.3 White balance

Use this option to correct color difference due to lighting conditions.

1. Turn the video camera on and ensure it is in **Photo** mode.
2. Press the **MENU** button and use the scroll wheel to highlight the **White Balance** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **Auto**, **Sunny**, **Cloudy**, **Tungsten**, or **Fluorescent**. Press the scroll wheel inwards to confirm.

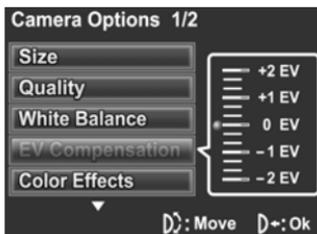
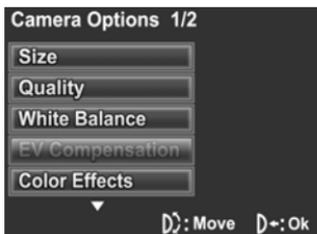


4. Press the **MENU** button again to exit the menu.

### 4.3.4 Exposure adjustment (EV)

Use this setting to change the exposure for pictures. Usually, this value is set to **zero**. Increase the value to light up a subject with strong back lighting, or decrease the value if taking a picture of something very bright.

1. Turn the video camera on and ensure it is in **Photo** mode.
2. Press the **MENU** button and use the scroll wheel to highlight the **EV Compensation** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to adjust EV value. The range is from **-2 EV** to **+2 EV**. Press the scroll wheel inwards to confirm.

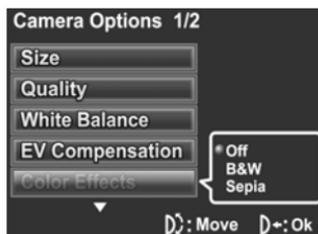
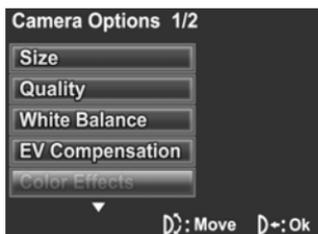


4. Press the **MENU** button again to exit the menu.

### 4.3.5 Color effects

The camera can capture standard color images, black and white images, or sepia tone to give an old-fashioned look. When the color effect function is set to **Off**, it is set to color mode.

1. Turn the video camera on and ensure it is in **Photo** mode.
2. Press the **MENU** button and use the scroll wheel to highlight the **Color Effects** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **Off**, **B & W**, or **Sepia**. Press the scroll wheel inwards to confirm.



4. Press the **MENU** button again to exit the menu.

### 4.3.6 Self-timer

This function allows you to capture an image of yourself by adding a specified time delay between when the **Shutter** button is pressed and when the picture is actually taken.

1. Turn the video camera on and ensure it is in **Photo** mode.
2. Press the **MENU** button and use the scroll wheel to highlight the **Selftimer** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **Off**, **10 sec.**, or **20 sec.** Press the scroll wheel inwards to confirm.

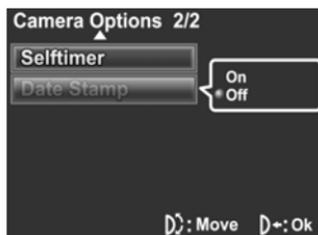


4. Press the **MENU** button again to exit the menu.
5. Press the **Shutter** button and the selftimer starts. An image is captured after the specified time delay.

### 4.3.7 Date stamp

Use this option to turn on/off the date stamp when a photo is taken.

1. Turn the video camera on and ensure it is in **Photo** mode.
2. Press the **MENU** button and use the scroll wheel to highlight the **Date Stamp** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select whether to show the date stamp on the screen. Press the scroll wheel inwards button to confirm.



4. Press the **MENU** button again to exit the menu.

## 4.4 Photo playback menu

### 4.4.1 Delete all

Use this function to delete files.

1. Turn the video camera on and ensure it is in **Photo** mode. Press the **Playback** button and then press the **MENU** button to display the **Photo Playback** menu.
2. Use the scroll wheel to highlight the **Delete All** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **OK** or **Cancel**. Press the scroll wheel inwards to confirm.



4. Press the **MENU** button again to exit the menu.

**Note:** Once deleted, files cannot be recovered. Make sure the files are transferred to PC via the USB AV cable or saved to other storage devices. Files that have been protected will not be deleted.

## 4.4.2 Unlock all

Use this function to unlock all protected files.

1. Turn the video camera on and ensure it is in **Photo** mode. Press the **Playback** button and then press the **MENU** button to display the **Photo Playback** menu.
2. Use the scroll wheel to highlight the **Unlock All** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **OK** or **Cancel**. Press the scroll wheel inwards to confirm.



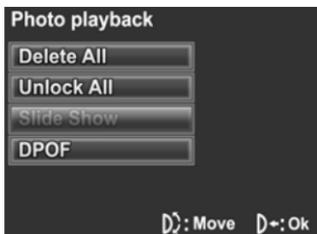
4. Press the **MENU** button again to exit the menu.

**Note:** To lock a file, move the joystick down in **Playback** mode. A lock icon  is displayed to show the file is protected.

### 4.4.3 Slide show

The camera includes a slide show function, which displays each image in turn with a regular interval between pictures.

1. Turn the video camera on and ensure it is in **Photo** mode. Press the **Playback** button and then press the **MENU** button to display the **Photo Playback** menu.
2. Use the scroll wheel to highlight the **Slide Show** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **Start** or **Cancel** and press the scroll wheel inwards to confirm.

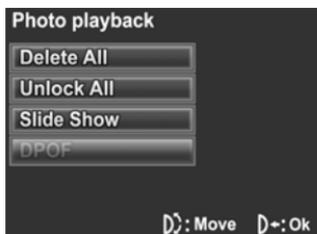


4. The images will be displayed one after another. Press the **Shutter** button to stop the slide show.

#### 4.4.4 DPOF

Use the DPOF (Digital Print Order Format) function to tag pictures stored in the memory card with print information. You can tag all pictures to be printed or select individual pictures.

1. Turn the video camera on and ensure it is in **Photo** mode. Press the **Playback** button and then press the **MENU** button to display the **Photo Playback** menu.
2. Use the scroll wheel to highlight the **DPOF** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select the option as below, and then press the scroll wheel inwards to confirm.



1: select a single print

The most recent picture is displayed on the screen. Press the directional pad up and down to set the number of prints, and press the directional pad left and right to select other photos. You can set a maximum of nine prints for each picture.



- ALL:** select to print all photos  
**RESET:** select to reset setting  
**CANCEL:** select to cancel all

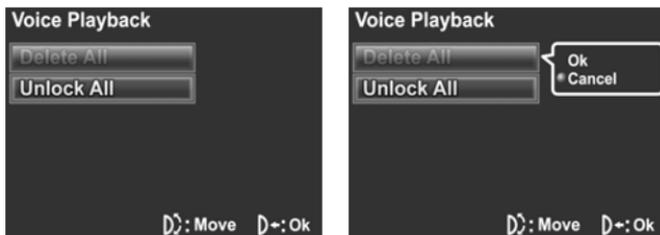
**Note:** A memory card is required for DPOF function.

## 4.5 Voice Playback Menu

### 4.5.1 Delete all

Use this function to delete files.

1. Turn the video camera on and ensure it is in **Voice** mode. Press the **Playback** button and then press the **MENU** button to display the **Voice Playback** menu.
2. Use the scroll wheel to highlight the **Delete All** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **OK** or **Cancel**. Press the scroll wheel inwards to confirm.



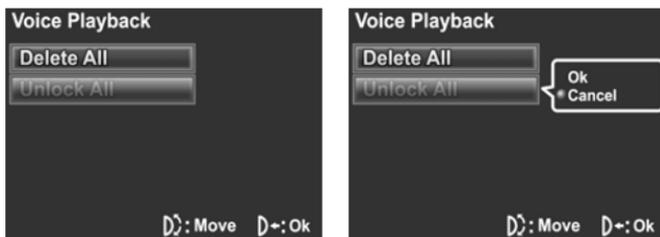
4. Press the **MENU** button again to exit the menu.

**Note:** Once deleted, files cannot be recovered. Make sure the files are transferred to PC via the USB AV cable or saved to other storage devices.

## 4.5.2 Unlock all

Use this function to unlock all protected files.

1. Turn the video camera on and ensure it is in **Voice** mode. Press the **Playback** button and then press the **MENU** button to display the **Voice Playback** menu.
2. Use the scroll wheel to highlight the **Unlock All** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **OK** or **Cancel**. Press the scroll wheel inwards to confirm.



4. Press the **MENU** button again to exit the menu.

## 4.6 System menu

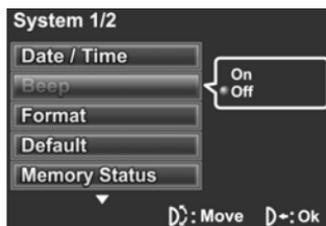
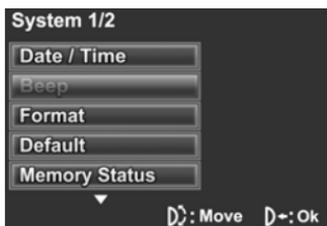
The system menu is used to configure miscellaneous camera functions.

### 4.6.1 Date/ time

See Section 2.5.1 “Setting the date and time”.

### 4.6.2 Beep

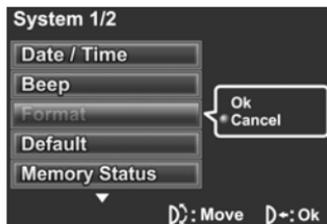
1. Turn on the video camera and switch to **SET** mode.
2. Use the scroll wheel to highlight the **Beep** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **ON** or **OFF** and press the scroll wheel inwards to confirm.



### 4.6.3 Format

Use this function to format the current storage media. This format action will delete everything on the media.

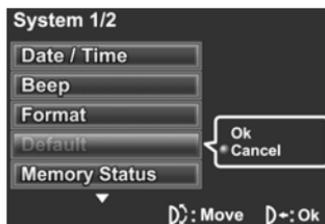
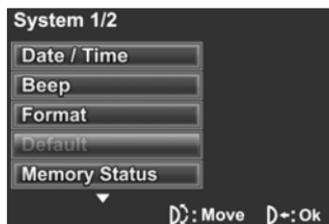
1. Turn on the video camera and switch to **SET** mode.
2. Use the scroll wheel to highlight the **Format** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **OK** or **Cancel**, and press the scroll wheel inwards to confirm.



#### 4.6.4 Default

Use this option to reset all settings to the default.

1. Turn on the video camera and switch to **SET** mode.
2. Use the scroll wheel to highlight the **Default** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **OK** or **Cancel**, and press the scroll wheel inwards to confirm.



## 4.6.5 Memory status

This function displays the memory status and the number of video clips, photos, and voice files saved in the video camera.

1. Turn on the video camera and switch to **SET** mode.
2. Use the scroll wheel to highlight the **Memory Status** option. Press the scroll wheel inwards to display the submenu.
3. The number of files saved and the free memory space are displayed on the screen. Press the scroll wheel inwards again to exit.



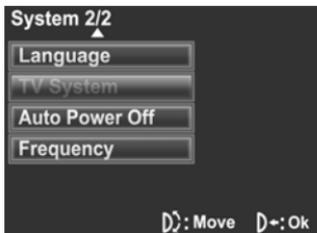
## 4.6.6 Language

Please refer to Section 2.5.2 "Setting the language".

## 4.6.7 TV system

Use the TV option to set the TV system for the area.

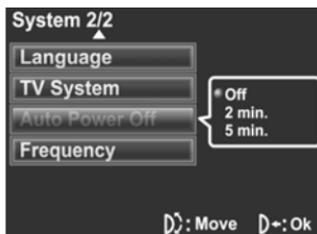
1. Turn on the video camera and switch to **SET** mode.
2. Use the scroll wheel to highlight the **TV System** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **NTSC** or **PAL**, and press the scroll wheel inwards to confirm.



## 4.6.8 Auto power off

Use this function to switch the camera off automatically after a period of inactivity for power saving.

1. Turn on the video camera and switch to **SET** mode.
2. Use the scroll wheel to highlight the **Auto Power Off** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll wheel to select **Off**, **2 min.**, or **5 min.** Press the scroll wheel inwards to confirm.

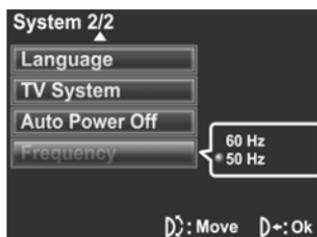


## 4.6.9 Frequency

Use the Frequency option to set the frequency system for your area.

To set the frequency:

1. Turn on the video camera and switch to **SET** mode.
2. Use the scroll wheel to highlight the **Frequency** option. Press the scroll wheel inwards to display the submenu.
3. Use the scroll to select **60 Hz** or **50 Hz**. Press the scroll wheel inwards to confirm.



## 5 Installing software and drivers

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Read this section to learn how to install drivers and software for the camera.

### 5.1 Drivers

You can use the “Mass Storage” and “PC Camera” functions of the camera on the PC.

#### 5.1.1 Mass Storage

The digital camera offers Mass Storage function as a card reader device. You can treat this digital camera as an SD device. When the camera is connected, the camera memory or any installed SD/MMC card displays as Mass Storage in Windows Explorer. Files can be dragged and dropped in the same way as an ordinary disk.

#### 5.1.2 PC camera

You will need to install a driver for the camera to use as a PC or Web Cam in all Windows operating systems (Windows XP/2000/Vista 32bit).

<p><b>Note: Driver installation is required for all operating systems.</b></p>
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The digital camera can be used as a PC camera or a Web Cam. Please follow the instructions below:

1. Insert the supplied CD-ROM in the CD-ROM drive.
2. If the CD-ROM does not automatically boot, use Windows Explorer to execute the **InstallMgr.exe** file in the root directory.



Install button

3. Click the **Install** button to install the driver.
4. Follow the on-screen instructions.
5. Click **Finish** to restart the computer and finish the camera driver installation.

## 5.2 Presto! Video Works

Presto! Video Works is an advanced software application for editing video.

To install Presto! Video Works:

1. Insert the supplied CD-ROM in the CD-ROM drive.
2. If the CD-ROM does not automatically boot, use Windows Explorer to execute the **InstallMgr.exe** file in the root directory.

The following screen is displayed.



Install button

3. Click the **Install** button to begin the installation process and follow the instructions on-screen.

More information about Presto! Video Works can be found in the help files when the application is started.

## 5.3 Presto! Mr. Photo

Presto! Mr. Photo is an advanced photo editing software application.

To install Presto! Mr. Photo:

1. Insert the supplied CD-ROM in the CD-ROM drive.
2. If the CD-ROM does not automatically boot, use Windows Explorer to execute the **InstallMgr.exe** file in the root directory.

The following screen is displayed.



3. Click **Install** to begin the installation process and follow the instructions on-screen.

More information about Presto! Mr. Photo can be found in the help files when the application is started.

## 5.4 User's Manual

You can download the user's manual in a wide range of languages and following the instructions below.

To view the user's manual:

4. Insert the supplied CD-ROM in the CD-ROM drive.
5. If the CD-ROM doesn't automatically boot, use Windows Explorer to execute the **InstallMgr.exe** file in the root directory.

The following screen is displayed.



6. Click **User's Manual** to download the user's manual. You can choose to download the user's manual in English, German, French, Spanish, Italian, Japanese or Traditional Chinese. You must have Acrobat Reader installed on your PC, as all user's manuals are in **pdf** format.

## Appendix

### Specifications

General	
Imaging sensor	1/2.5" CMOS 5.17 Megapixel sensor
Active pixels	5.1 Megapixel
Storage media	Built-in 32 MB flash memory SD Card (MMC compatible), can support up to 4GB
Sensor sensitivity	Auto
Lens	Fixed focus lens Wide: F/3.1, f=7.5mm
Focus range	Normal: 1.5m~infinity Macro: 15~16cm
Still image	Formats: JPEG (DPOF, EXIF), Direct Print Resolution: 1M, 3M, 5M, 12M (Firmware interpolation) Quality: Fine, Normal
Movie clips	Motion JPEG (AVI)

## General

	Resolution: 640 x 480 pixels, 320 x 240 pixels Frame rate: 30 fps (max.)
Zoom	4X Digital Zoom
TFT Monitor	2.4" TFT (480 x 234 pixels)
Strobe	Effective range: <1 m range Flash modes: Auto/Off
White balance	Auto/Sunny/Cloudy/Tungsten/ Fluorescent
EV compensation	-2.0 EV~+2.0 EV
Self-timer	Off, 10, 20 seconds
PC interface	PC Cam: USB 2.0 (full speed) Mass storage: USB 2.0 (full speed)
TV out format	NTSC/PAL
Shutter	Electronic shutter 1/4~1/2000 second
Auto power off	Off, 2 min., 5 min.
Power supply	Camera: 4 x AAA alkaline batteries
Dimensions	98.3(L) x 68.2 (W) x 37 (H) mm

**General**

Weight	<136±5g (without batteries)
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**Troubleshooting**

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
Cannot turn on the camera.	The batteries are not inserted correctly.  The batteries have no power.	<ul style="list-style-type: none"><li>• Insert the batteries correctly. (See Section 2.2 “Inserting the batteries”.)</li><li>• Replace the batteries.</li></ul>
The camera suddenly turns off.	The auto power off function was enabled.  The camera is running out of battery power.	<ul style="list-style-type: none"><li>• Turn the power on again.</li><li>• Replace the batteries.</li></ul>

<p>The captured image is not stored in memory.</p>	<p>Before the image is saved the power has been cut off.</p>	<ul style="list-style-type: none"> <li>• When the battery indicator turns red, charge the batteries immediately.</li> </ul>
<p>The camera turns off when capturing image using self-timer.</p>	<p>The camera is running out of battery power.</p>	<ul style="list-style-type: none"> <li>• Replace the batteries.</li> </ul>
<p>The image is out of focus.</p>	<p>The subject is beyond focus range.</p>	<ul style="list-style-type: none"> <li>• Please take a picture within the available focus range and choose normal or macro mode. (See Section 3.3.2 “Using the macro function”.)</li> </ul>
<p>Memory card cannot be used.</p>	<p>The memory card is protected. The memory card contains non-DCF images</p>	<ul style="list-style-type: none"> <li>• Unlock the memory card.</li> <li>• Format the memory card. (See Section</li> </ul>

	taken by other cameras.	4.6.3 "Format".) Before formatting the card, ensure you have backed up the files.
All buttons are inactive.	Short circuit occurred when connecting the camera with other devices.	<ul style="list-style-type: none"><li>• Remove the batteries from the camera and insert again.</li></ul>