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## Preface

Congratulations on your purchase of this advanced camcorder. Ensure that you read this manual carefully and keep it in a safe place for future reference.

## 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. If the contents of this manual do not tally with the camera, please take the camera as a criterion, and our company reserves the right to change the contents or technical rules without notice in advance. Also, the manufacturer reserves the right to change the technical specification in advance without notice.

If the accessories do not tally with the actual package, please take the actual package as a criterion.

## Copyright

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All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, manual or otherwise, without the prior written permission of the manufacturer.



## Precautions

### General precautions

- Do not use or store the product in dusty, dirty, or sandy areas, as its components may be damaged.
- Do not store the product in a hot environment. High temperatures can shorten the life of electronic devices, damage batteries and warp or melt certain plastics.
- Do not store the product in cold areas. When the product warms up to its normal temperature, moisture can form inside, which may damage the electronic circuits.
- Do not attempt to open the casing or attempt your own repairs.
- High-voltage internal components create the risk of electric shock when exposed.
- Do not drop or knock the product. Rough handling may damage the internal components.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the product. Wipe the product with a slightly damp soft cloth.
- Do not fire the flash while it is too close to the subject's eyes. Intense light from the flash can cause eye damage if it is fired too close to the eyes.
- When using the flash, the camera should be at least one meter from the eyes of the subject.
- Do not open battery cover while an image is being recorded. Doing so will not only make storage of the current image impossible, it can also corrupt other image data already stored in file.
- If the product or any of its accessories are not working properly, take them to your nearest qualified service center. The personnel there will assist you and if necessary, arrange for the product to be repaired.
- Test for proper operation before using the camera.

### Notes on the LCD Screen

Be very careful to ensure the fluid contained in the LCD screen does not escape if the screen becomes cracked or damaged. If this occurs, follow these steps:

- If the fluids make contact with skin, wipe it with a clean cloth then rinse with a large amount of water.

- If the fluid makes contact with eyes, wash eyes with clean water for at least 15 minutes and go to the hospital as soon as possible.
- If the fluid is swallowed, first rinse mouth with water, then drink a large amount of water and induce vomiting. Go to the hospital as soon as possible.

### Operation conditions

- This camera is designed for use in temperatures ranging from 0°C to 40°C (32°F to 104°F).
- Do not use or keep the camera in the following areas:
  - In areas subject to direct sunlight
  - In areas subject to high humidity or dust
  - Near air conditioners, heaters, or other areas subject to temperature extremes
  - Inside of a closed vehicle, especially one parked in the sun.
  - In areas subject to strong vibration

### Power supply

- 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.
- Ensure the battery is inserted correctly. Inserting the battery incorrectly can cause damage to the product and possibly start a fire.
- Remove the battery to avoid the fluid leakage if the camera is not going to be used for a long time.
- If the battery is crushed or damaged, remove it immediately to avoid the battery fluid leakage and abnormal expansion.

### Before You Start

Take some test shots before performing a formal recording.

Before taking pictures with this DV camera in any important occasion (such as a wedding ceremony or an overseas trip), do test the DV camera beforehand to ensure that it functions properly. Any additional loss caused by the malfunction of this product (such as costs of photography or any loss of benefit generated by the photography) is not the responsibility of the manufacturer and no compensation will be given for it.



## Copyright information

Take care to observe "No Photography" notices in certain locations. In these cases, you cannot record any live performance, improvisation or exhibits, even for personal purposes. Any transfer of pictures or memory card data must be conducted under the constraints of copyright law.

## 1 Introducing the camcorder

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

### 1.1 System requirements

The camcorder requires a PC with the following specifications:

- Windows® Vista / XP / 2000 operating system
- Intel® Pentium 4 2.8GHz CPU or higher (3GHz recommended)
- At least 512 MB of RAM or higher (1 G recommended)
- Standard USB 1.1 port or higher
- At least 64MB or greater video card

- **Note:**

A USB 1.1 port may enable you to transfer files to and from your host PC, but transfer speeds may be much faster with a USB 2.0 port.

### 1.2 Features

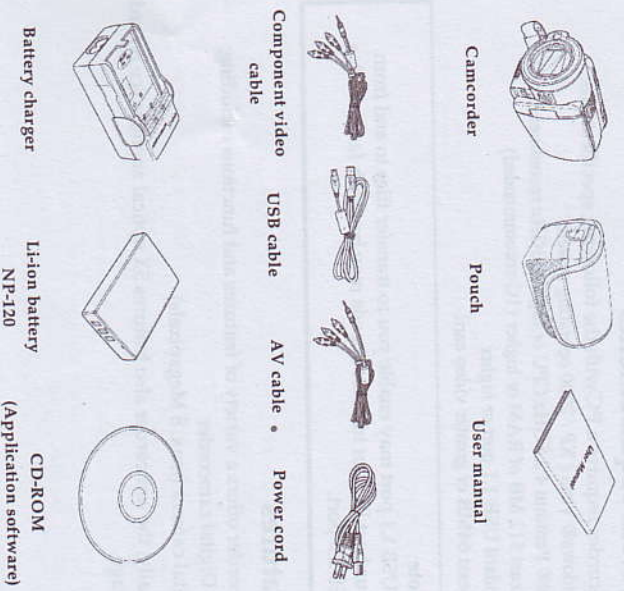
The camcorder offers a variety of features and functions including:

- HD Digital camcorder
- Digital camera (max. 8 Megapixels)

Additionally, the camcorder also features 5X optical zoom, voice recorder, USB mass storage.

### 1.3 Unpacking the camcorder

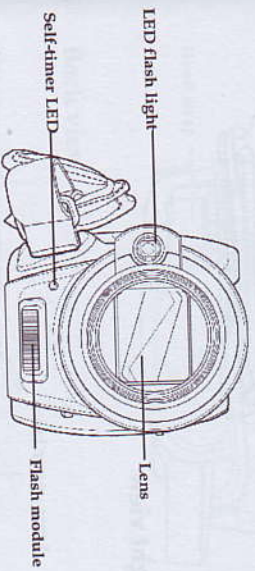
The following items should be present in the package. If any item is missing or appears damaged, contact your dealer immediately.



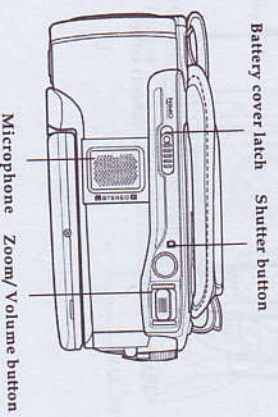
### 1.4 About the camcorder

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

#### 1.4.1 Front view

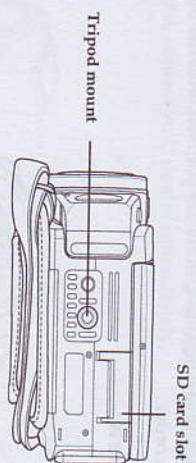


#### 1.4.2 Top view

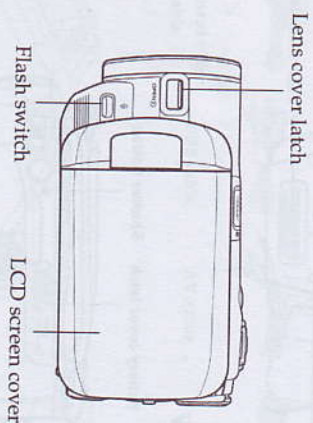




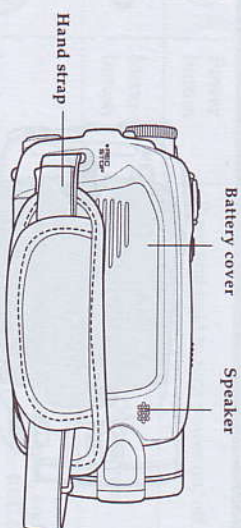
### 1.4.3 Bottom view



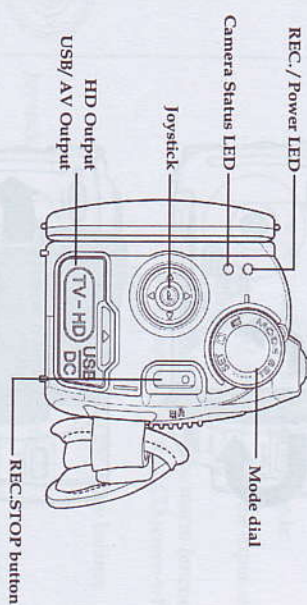
### 1.4.4 Right view



### 1.4.5 Left view

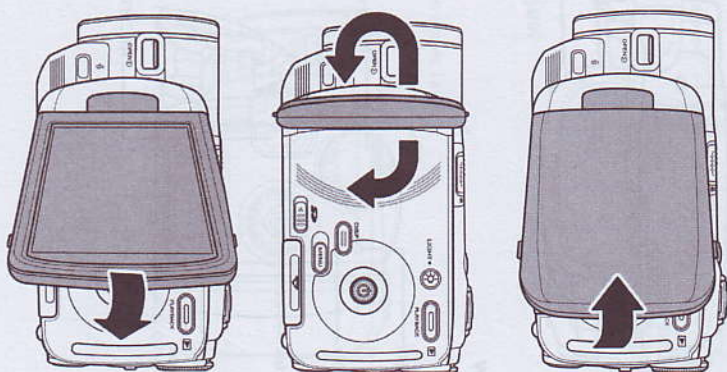


### 1.4.6 Back view








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 button	Press and hold to turn power on/off.
	Menu button	Press to display main OSD menus.
	Mode dial	Use to turn <b>Camcorder</b> , <b>Camera</b> , and <b>SET</b> modes. In <b>Camcorder</b> mode, press the <b>REC/STOP</b> button to start and stop recording. In <b>Camcorder Playback</b> mode, press the <b>REC/STOP</b> to pause/restart playing.
	Joystick	<ul style="list-style-type: none"><li>● In <b>Camcorder</b> and <b>Camera</b> mode:<ol style="list-style-type: none"><li>1. Move up/ down to adjust the exposure settings.</li><li>2. Move right to enable the macro function. A  icon appears on the LCD screen when enabled.</li><li>3. Move left to adjust the white balance settings.</li></ol></li><li>● In <b>Camera Playback</b> mode:<ol style="list-style-type: none"><li>1. Move up/down to view the stored images.</li><li>2. When the image is zoomed in, the LCD screen appears up/down direction keys. You may press the joystick to move the image. Then you may press the center joystick button to switch the moving directions (up/down ↔ left/right).</li></ol></li></ul>



		<p>3. In the <b>Thumbnail</b> mode, move up and down to select the thumbnail images and then press the center joystick button to view the image in full screen mode.</p> <p>● In <b>Camcorder Playback</b> mode:</p> <ol style="list-style-type: none"> <li>1. Press up and down to view the stored video clips and press the center joystick button to play/ stop the video clips.</li> <li>2. In <b>Playing</b> mode, move up to rewind a video clip and move down to fast-forward a video clip.</li> <li>3. In the <b>Thumbnail</b> mode, move up and down to select a desired video clip and then press the center joystick button to show the video clip.</li> </ol> <p>● In <b>SET</b> mode, press up and down to highlight menu items and press the center joystick button to confirm.</p>
	Shutter button	<p>● In <b>Camera</b> mode, press to take a photo.</p> <p>● In <b>Camcorder</b> mode, you can also press to take a photo before recording a video clip.</p>
	Playback button	In <b>Camcorder</b> and <b>Camera</b> mode, press to enter playback mode.
	Display button	Press once to turn off all OSD icons and press again to display all OSD icons off.
	Zoom button	<p>● In <b>Camcorder</b> and <b>Camera</b> modes, press left/ right to zoom in and out.</p> <p>● In <b>Camera Playback</b> mode:</p> <ol style="list-style-type: none"> <li>1. Press right to zoom in your photo.</li> </ol>

		<p>2. Press left to show all stored files in a 3x2 matrix thumbnail view.</p> <p>● In <b>Camcorder Playback</b> mode:</p> <ol style="list-style-type: none"> <li>1. Press left to show all stored video clips in a 3x2 matrix thumbnail view.</li> <li>2. Press left/ right to increase or decrease the volume of the video clip you are playing.</li> </ol>
	LED flash button	● In <b>Camcorder</b> and <b>Camera</b> modes, press the button to turn on/ off the increase light.
	SD card cover latch	● Slide the latch to open the SD card cover when you insert the SD card.

## 1.4.8 About the LEDs

The following table describes the camera LEDs:

LED	Color	Definition
Power / Rec.	Green	Power-on
	Green Blinking	Recording
Camera Status	Red	Camera busy
	Red Blinking	Self-timer is activated and flash in charge.
	Red Blinking Rapidly	2 seconds self-timer remaining.
Self-timer	Red Blinking	Self-timer is activated.
	Red Blinking Rapidly	2 seconds self-timer remaining.

## 2 Getting started

Read this section to learn how to start using the camcorder. 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.

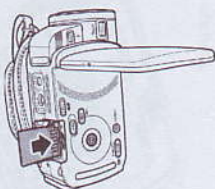
### 2.1 Inserting an SD card

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

1. Open the LCD screen cover and move the SD card cover latch in the direction of the arrow to open the SD card compartment cover.

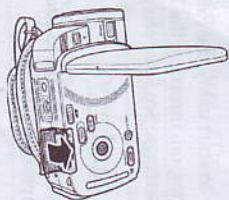


2. Insert an SD card, making sure the contacts are facing upwards.





3. Close the SD card compartment cover.



## 2.2 Inserting the batteries

This camcorder is designed to use a rechargeable Li-ion battery. Only use the batteries supplied or similar batteries recommended by the manufacturer or your dealer.

● **Note:**

Install the battery exactly as described here. Installing the battery incorrectly could cause damage to the camcorder and possibly start a fire.

1. Slide the battery cover latch as shown and then the battery cover opens automatically.



2. Insert the battery as shown.



3. Close the battery cover as shown.



## 2.3 Charging the battery

You can charge the battery with the charging unit provided. Follow the below steps to charge your battery.

1. Insert the Li-ion battery into the charging bay. Connect one end of the power cord to the charging unit and then plug the other end to the wall outlet as shown.



## 2.4 Turning on/ off the camcorder

Press and hold the power button to turn the camcorder on/ off.

## 2.5 Changing modes

The camcorder can operate in three modes, Camcorder, Camera, and SET. Move the mode dial to toggle different modes.





## 2.6 Before you start

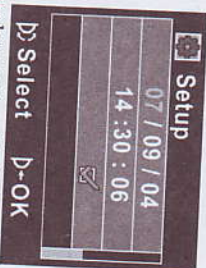
Before you start using the camcorder, some basic settings such as date and time, languages and beep function need to be configured.

### 2.6.1 Setting the date and time

1. Turn on the camcorder, and move the mode dial to SET. Move the joystick up and down to highlight **Date / Time**. Press the center joystick button to confirm.



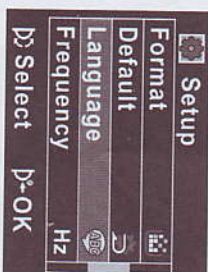
2. Move the joystick up and down to highlight each field and press the center joystick button to select a field.



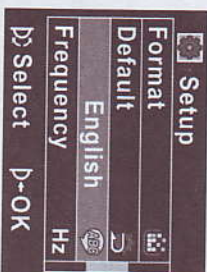
3. Adjust each value by moving the joystick up and down. Press the center joystick button to save your changes.
4. Press the joystick down to highlight  $\checkmark$  to leave the **Date / Time** menu.

### 2.6.2 Setting the language

1. Turn on the camcorder, and move the mode dial to SET. Move the joystick up and down to highlight **Language**. Press the center joystick button to select it.



2. Move the joystick left and right to select the following languages: English, Traditional Chinese, Simplified Chinese, German, Italian, Spanish, French, Turkish, Portuguese, Dutch, Japanese, Russian, Korean, and Arabic. After the language is selected, press the center joystick button to confirm.



## 2.6.3 Setting the beep

1. Turn on the camcorder, and move the mode dial to **SET**. Move the joystick up and down to highlight **Beep**. Press the center joystick button to select it.



2. Move the joystick left and right to select **X** (Beep Off) or **✓** (Beep On) and press the center joystick button to confirm.



## 2.7 Shoot/Playback video

### 2.7.1 Shooting a video clip

1. Turn on the camcorder and move the mode dial to **Camcorder mode**.







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

#### Notes:

1. The maximum length of each video recording file is 2GB.
2. The high-resolution settings result in larger files, and therefore shorter length.



3. The LCD preview and the ratio of a still-image capture can vary depending on the different video resolution settings. See the following table:

Video resolution	Preview	Taking pictures and focusing
HD (1280 x 720)	16:9 ratio 	4:3 ratio 
D1 (720 x 480)	4:3 ratio 	4:3 ratio 
CIF (352 x 240)		

4. Before shooting a video clip, you can still take a photo in Camcorder mode.

## 2.7.2 Playing the video clip

1. In Camcorder mode, press the Playback button. The most recent file displays on the LCD screen.



2. Move the joystick up and down to select a desired video clip and press the center joystick button. The video clip starts playing.
3. Move the joystick up to rewind the video clip and move the joystick down to fast forward.
4. Press the REC. STOP button to pause the video playback. Press the REC. STOP button again to resume the video playback.
5. When viewing the video clip, move the Zoom button left or right to adjust the volume.
6. Press the center joystick button to stop playing.
7. Press the Playback button again to return to Camcorder mode.

## 2.8 Taking/viewing pictures

### 2.8.1 Taking a still picture

1. Turn on the camcorder and move the **Mode Dial** to **Camera 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.

### 2.8.2 Viewing images

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



2. Press the joystick up and down to scroll through the images.
3. Move the **Zoom** button right to zoom in the picture. There are two direction keys appears on the **LCD screen**. You may use the joystick to pan across the picture and press the center joystick button to switch between the panning directions (up/down ↔ left/right).
4. Press the **Zoom** button left fully to view the thumbnails of all stored images and then press the joystick up and down to select an image.
5. Press the center joystick button to view the image in full screen mode.
6. Press the **Playback** button again to return to **Camera 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 camcorder to a computer with the USB cable provided.



## 2.10 Connecting to a standard TV

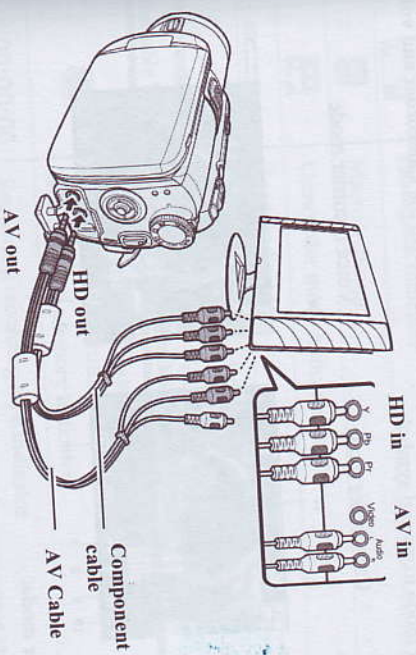
Connect the camcorder to a standard TV as shown with the AV cable provided.



## 2.11 Connecting to a HDTV

Read this section to learn how to show the video clips or photos on a HDTV. Connecting to a HDTV offers the high resolution for displaying the video clips or photos.

Connect the camcorder to a HD TV as shown with the component video cable and AV cable provided.



### 3 Using the camcorder

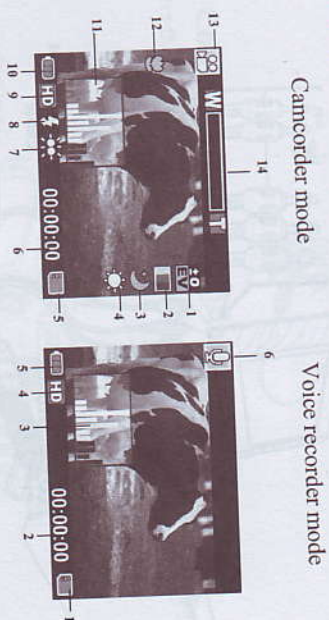
Read this section to learn how to use the camcorder.

#### 3.1 Camcorder and voice recorder mode

Use this mode to capture video clips or record voice and store them in an internal memory or on an SD card.

##### 3.1.1 Camcorder and voice recorder mode

Use the following picture to familiarize yourself with the Camcorder and voice recorder mode icons and symbols.



##### Camcorder mode:

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

1		EV compensation indicator
2		Effect indicator
3		Night mode indicator
4		White balance indicator
5		Memory status indicator
		: SD card indicator
		: Internal memory indicator

6	00:00:00	Remaining recording time indicator
7		LED flash light indicator
8		Force and auto flash indicator
9		Resolution indicator
10		Battery indicator
11		Histogram indicator
12		Macro indicator
13		Camcorder mode indicator
14		Zoom indicator

##### Voice recorder mode:

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

1		Memory status indicator
		: SD card indicator
		: Internal memory indicator
2	00:00:00	Remaining recording time indicator
3		Histogram indicator
4		Resolution indicator
5		Battery indicator
6		Voice recorder mode indicator



### 3.1.2 Using the macro function

This function can capture subjects close to the lens. In macro mode, subjects can be as close as 5 cm.

While in Camera, Camcorder or Voice recorder modes, move the joystick right to activate the macro function, and a  icon displays on the LCD screen.

Move the joystick again to return to normal mode.

### 3.1.3 Using the zoom function

The camcorder is equipped with 5x optical zoom.

Move the Zoom button right to get closer to a subject.

Move the Zoom button left to move away from a subject.

### 3.1.4 Using the LED flash light

Use the LED flash light to illuminate subjects in dark environments.

Press the Light button to switch on the flash light and press again to switch it off.

### 3.1.5 Using the Flash module, auto and force

Use the auto and force flash module to illuminate subjects in dark environments when press the shutter button.

You may switch the auto and force flash module by toggling the Flash switch. The  or  displays on your camcorder when activated.

### 3.1.6 Quick access controls

You can also make adjustments to exposure by pressing the joystick up and down.

In Camcorder and Camera modes, press the joystick up and down to adjust the EV compensation settings. Press the joystick right to choose white balance settings.

### 3.2 Camera mode

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

#### 3.2.1 Camera mode icons

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



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

1	<b>0003</b>	Remaining number of photos
2		EV compensation indicator
3		Effect indicator
4		Night mode indicator
5		White balance indicator
6		Memory status indicator
		: SD card indicator
		: Internal memory indicator
7		LED flash light indicator

30

8		Force and auto flash indicator
9		File size indicator
10		Battery indicator
11		Histogram indicator
12		Macro indicator
13		Self timer indicator
14		Camera mode indicator
15		Zoom indicator

#### 3.2.2 Using the macro function

See section 3.1.2 "Using the macro function".

#### 3.2.3 Using the zoom function

See section 3.1.3 "Using the zoom function".

#### 3.2.4 Using the LED flash module

See section 3.1.4 "Using the LED flash light".

#### 3.2.5 Using the flash module, auto and force

See section 3.1.5 "Using the Flash module, auto and force".

#### 3.2.6 Quick access controls

See section 3.1.6 "Quick access controls".

### 3.3 Camcorder Playback mode

Use Camcorder Playback mode to review all the movie files stored in the camcorder.

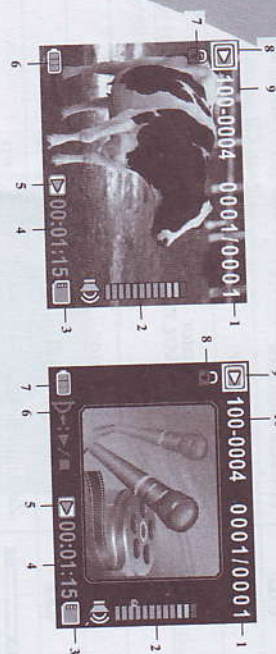
#### 3.3.1 Camcorder Playback mode icons

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

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### Camcorder playback mode



### Voice recorder playback mode



### Camcorder mode:

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

1	<b>0001/0001</b>	Displays the number of current camcorder / total number of recorded video clips
2		Volume level
3		Memory status indicator : SD card indicator : Internal memory indicator
4	<b>00:00:00</b>	The length of every video clip
5		Play/ Pause indicator
6		Battery status indicator
7		File protect indicator
8		Camcorder playback mode icon
9	<b>100-0001</b>	Displays the file number of the video clip

### Voice Recorder mode:

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

1	<b>0001/0001</b>	Displays the number of current audio/ total number of recorded audio clips
2		Volume level
3		Memory status indicator : SD card indicator : Internal memory indicator
4	<b>00:00:00</b>	The length of every audio clip
5		Play/ Pause indicator
6		Indicates: press to Play/ Stop
7		Battery status indicator
8		File protect indicator
9		Voice playback mode
10	<b>100-0001</b>	Displays the file number of the audio clip

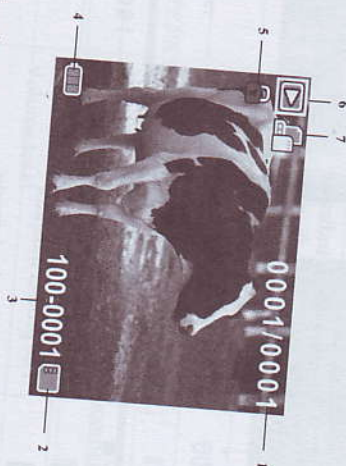


### 3.4 Camera Playback mode

Use **Camera Playback** mode to review all the image files stored in the camcorder.

#### 3.4.1 Camera Playback mode icons

Refer to the following picture to familiarize yourself with the **Camera 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 / the total number of saved images
2	: SD card indicator : Internal memory indicator	Memory status indicator
3	100-0001	Displays the file number of the photo
4		Battery status indicator
5		File protect indicator
6		Playback mode icon
7		DPOF (Digital Print Order Format) indicator

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### 3.5 Thumbnail mode

When in **Camera Playback** or **Camcorder Playback** modes, press the **ZOOM** button left to show images as thumbnails.

1. Turn on the camcorder and make sure it is in **Camera Playback** or **Camcorder Playback** mode.
2. The most recent image / video clip displays on the screen. Press the **Zoom** button left to view six thumbnail images / video clips on the LCD screen.
3. Press the joystick up and down to highlight an image, or a video clip, and press the center joystick button to view the image or playback the video clip or voice file in full screen mode.
4. Press the **ZOOM** button left to return to thumbnail view.



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## 4 Using the menus

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

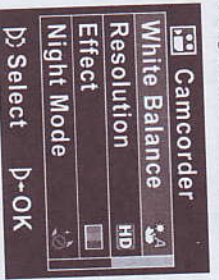
### 4.1 Camcorder menu

When in **Camcorder** mode, press the **Menu** button to show the camcorder options menu.

#### 4.1.1 White balance

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

1. Turn the camcorder on and ensure it is in **Camcorder** mode.
2. Press the **Menu** button and move the joystick up and down to highlight the **White Balance** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right to select **Auto**, **Sunny**, **Cloudy**, **Tungsten**, or **Fluorescent**. Press the center joystick button to confirm.

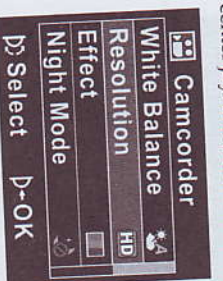


4. Press the **Menu** button again to exit the menu.

#### 4.1.2 Video resolution

Use the resolution option to determine the resolution of the captured video. The larger screen size requires more memory storage space.

1. Turn the camcorder on and ensure it is in **Camcorder** mode.
2. Press the **Menu** button and move the joystick up and down to highlight the **Resolution** option. Press the center joystick button to display the submenu.
3. Press the joystick left and right to select **CIF**, **D1** or **HD**. Press the center joystick button to confirm.



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

#### ● Notes:

1. The LCD displays the 16:9 ratio while setting as HD video resolution.
2. The LCD displays the 4:3 ratio while setting as D1 or CIF video resolution.

### 4.1.3. Color effect

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

1. Turn the camcorder on and ensure it is in **Camcorder** mode.
2. Press the **Menu** button and move the joystick up and down to highlight the **Effect** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right to select **Color**, **B&W** or **Sepia**. Press the center joystick button to confirm.

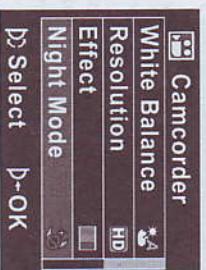


4. Press the **Menu** button again to exit the menu.

### 4.1.4. Night mode

Use this function to shoot a better video clip quality in dark environments.

1. Turn the camcorder on and ensure it is in **Camcorder** mode.
2. Press the **Menu** button and move the joystick up and down to highlight the **Night Mode** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right to select **Off** or **Night mode** options. Press the center joystick button to confirm.



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



#### 4.1.5. Capture mode

Use this function to record sound or image.

1. Turn the camcorder on and ensure it is in **Camcorder** mode.
2. Press the **Menu** button and move the joystick up and down to highlight the **Capture Mode** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right to select **Voice recorder** or **Video** options. Press the center joystick button to confirm.



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

#### 4.2 Camcorder playback menu

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

##### 4.2.1 Delete

Use this function to delete files.

1. Turn the camcorder on and ensure it is in **Camcorder** mode. Press the **Playback** button and then press the **Menu** button to display the **Camcorder Playback** menu.
2. Move the joystick up and down to select **Delete One** or **Delete All** options.

If you select **Delete One**, the playback screen appears again. Move the joystick up and down to locate the file you want to delete and press the center joystick button to confirm.



If you select **Delete All**, press the center joystick button to display the submenu.



3. Move the joystick left and right to select **X** or **✓** and press the center joystick button to delete.



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

● **Note:**

Once deleted, files cannot be recovered so make sure you have a backup before you delete. Files that have been protected will not be deleted. You have to unlock the files first before deleting them.

## 4.2.2 Protect

Use this function to lock files to prevent accidental deletion.

1. Turn the camcorder on and ensure it is in **Camcorder** mode. Press the **Playback** button and then press the **Menu** button to display **Camcorder Playback** menu.
2. Move the joystick up and down to select the **Protect** option. Then playback screen appears again. Move the joystick to locate the file you want to protect and press the center joystick button to confirm. A lock icon is displayed to show that the file is protected.



3. Press the **Menu** button again to exit the menu.

● **Note:**

To unlock a file, repeat the above steps. The lock icon disappears when the file is unlocked.



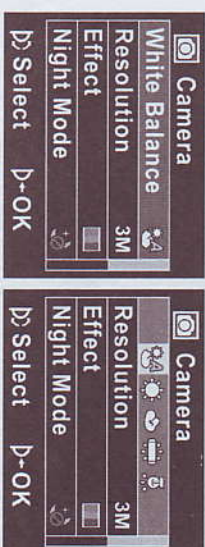
## 4.3 Camera menu

In Camera mode, press the Menu button to show the Camera Options menu.

### 4.3.1 White balance

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

1. Turn the camcorder on and ensure it is in **Camera** mode.
2. Press the Menu button and move the joystick up and down to highlight the **White Balance** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right to select **Auto**, **Sunny**, **Cloudy**, **Tungsten**, or **Fluorescent**. Press the center joystick button to confirm.

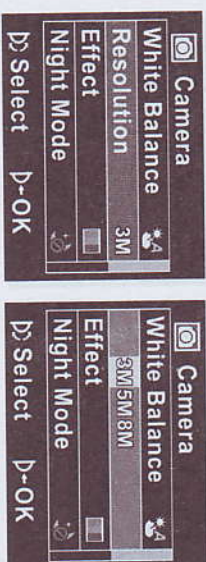


4. Press the Menu button again to exit the menu.

### 4.3.2 Resolution

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

1. Turn the camcorder on and ensure it is in **Camera** mode.
2. Press the Menu button and move the joystick up and down to highlight the **Resolution** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right to select from **3M**, **5M** or **8M**. Press the center joystick button to confirm.

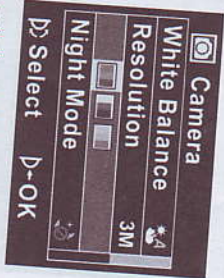
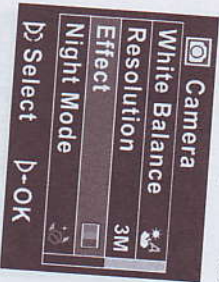


4. Press the Menu button again to exit the menu.

#### 4.3.3 Color effect

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

1. Turn the camcorder on and ensure it is in **Camera** mode.
2. Press the **Menu** button and move the joystick up and down to highlight the **Effect** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right to select **Color**, **B & W**, or **Sepia**. Press the center joystick button to confirm.



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

#### 4.3.4 Night mode

Use this function to shoot a better video clip quality in dark environments.

1. Turn the camcorder on and ensure it is in **Camcorder** mode.
2. Press the **Menu** button and move the joystick up and down to highlight the **Night Mode** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right to select **Off** or **Night mode** option. Press the center joystick button to confirm.



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



### 4.3.5 Self timer

Use the self timer function to take a photo of yourself.

1. Turn the camcorder on and ensure it is in **Camera** mode.
2. Press the **Menu** button and move the joystick up and down to highlight the **Selftimer** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right to select **Off**, **5 seconds**, or **10 seconds** options. Press the center joystick button to confirm.



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

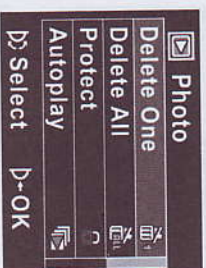
### 4.4 Camera playback menu

#### 4.4.1 Delete

Use this function to delete files.

1. Turn the camcorder on and ensure it is in **Camera** mode. Press the **Playback** button and then press the **Menu** button to display the **Camera Playback** menu.
2. Move the joystick up and down to select the **Delete One** or **Delete All** options.

If you select **Delete One**, the playback screen appears again. Move the joystick up and down to locate the file you want to delete and press the center joystick button to confirm.



If you select **Delete All**, press the center joystick button to display the submenu.



3. Move the joystick left and right to select X or V and then press the center joystick button to delete.



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

● **Note:**

Once deleted, files cannot be recovered so make sure you have a backup before you delete. Files that have been protected will not be deleted. You have to unlock the files first before deleting them.

## 4.4.2 Protect

Use this function to protect files.

1. Turn the camcorder on and ensure it is in **Camera** mode. Press the **Playback** button and then press the **Menu** button to display the **Camera Playback** menu.

2. Move the joystick up and down to select the **Protect** option. Then playback screen appears again. Press the joystick up and down to locate the file you want to protect and press the center joystick button to confirm. A lock icon is displayed to show that the file is protected.



3. Press the **Menu** button again to exit the menu.

● **Note:**

To unlock a file, repeat the above steps. The lock icon disappears when the file is unlocked.



#### 4.4.3 Slide show

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

1. Turn the camcorder on and ensure it is in **Camera** mode. Press the **Playback** button and then press the **Menu** button to display the **Camera Playback** menu.
2. Move the joystick up and down to select the **Autoplay** option and press the center joystick button. The images are displayed automatically.



3. Press the **Menu** 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.

1. Turn the camcorder on and ensure it is in **Camera** mode. Press the **Playback** button and then press the **Menu** button to display the **Camera Playback** menu.
2. Move the joystick up and down to highlight the **DPOF** option. Press the center joystick button to display the submenu.



3. Move the joystick left and right to select **X** or **✓**. Press the center joystick button to confirm and then press the **Menu** button. A **DPOF** icon is displayed to show that the file is ordered to print.



4. Press the **Playback** button again to exit the image.

##### ● Notes:

1. A memory card is required for DPOF function.
2. If DPOF is set, all photos are ordered to print.

#### 4.5 System menu

The system menu is used to configure miscellaneous camera functions.

#### 4.5.1 Setting the beep

See section 2.6.3 "Setting the Beep".

#### 4.5.2 Histogram Mode

Use this function to display a histogram graph on LCD screen. This function can help you to capture a better photo/video clip.

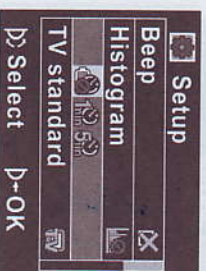
1. Turn on the camcorder and switch to **SET** mode.
2. Move the joystick up and down to highlight the **Histogram** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right to select **Histogram** or **Off** options. Press the center joystick button to confirm.



#### 4.5.3 Auto power off

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

1. Turn on the camcorder and switch to **SET** mode.
2. Move the joystick up and down to highlight the **Auto Power Off** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right to select **Off**, **1 minute**, or **5 minutes**. Press the center joystick button to confirm.

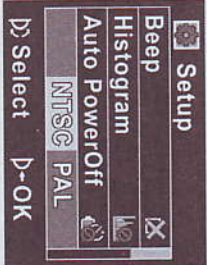




#### 4.5.4 TV standard

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

1. Turn on the camcorder and switch to SET mode.
2. Move the joystick up and down to highlight the **TV standard** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right to select **NTSC** or **PAL**, and press the center joystick button to confirm.



#### 4.5.5 Format

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

1. Turn on the camcorder and switch to SET mode.
2. Move the joystick up and down to highlight the **Format** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right to select **X** or **✓**, and press the center joystick button to confirm.



4. The current media (memory card or internal memory) is formatted.

#### 4.5.6 Default

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

1. Turn on the camcorder and switch to **SET** mode.
2. Move the joystick up and down to highlight the **Default** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right to select **X** or **✓**, and press the center joystick button to confirm.



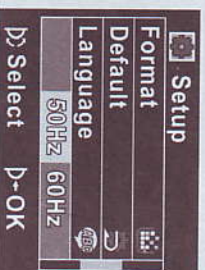
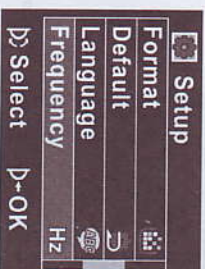
#### 4.5.7 Language

See section 2.6.2, "Setting the language".

#### 4.5.8 Frequency

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

1. Turn on the camcorder and switch to **SET** mode.
2. Move the joystick up and down to highlight the **Frequency** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right to select **50 Hz** or **60 Hz**. Press the center joystick button to confirm.



#### 4.5.9 Date/time

See section 2.6.1 "Setting the date and time".



## 5 Installing the software and drivers

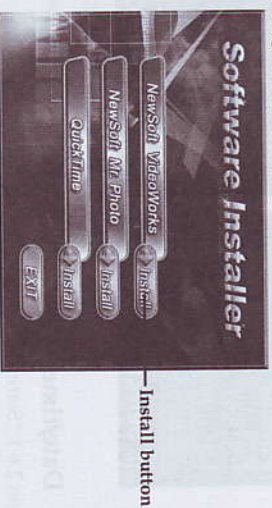
Read this section to learn how to install the software for the camera.

### 5.1 Presto! Video Works

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

1. Insert the supplied CD into 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 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.

### 5.2 Presto! Mr. Photo

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

To install Presto! Mr. Photo:

4. Insert the supplied CD into the CD-ROM drive.
5. 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.



6. Click the **Install** button 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.

### 5.3 Quick Time

Quick Time is an easy-to-use application for playing the video clips stored in the camera or on the SD card.

To install the Quick Time:

1. Insert the supplied CD into the CD-ROM drive.
2. If the CD-Rom doesn't automatically boot, use Window Explore to execute the InstalMgr.exe file in the root directory.

The following screen is displayed:



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

More information about Quick Time can be found in the help files when the application is started.

## Appendix Specifications

### General

Imaging sensor	1/2.5" CMOS 5.0 Megapixel sensor
Active pixels	5.0 Megapixel
Storage media	Built-in 32 MB flash memory (available memory for image storage is approx. 9 MB) SD Card (Support SDHC Class 6)
Sensor sensitivity	Auto
Color effects	Color/B&W/Sepia
Lens	5X Optical zoom lens Wide: F/3.2, f=6.26mm Tele: F/6.8, f=30.75mm
Focus range	Normal: 45cm ~ inf. Macro: 5cm ~ 45cm
Video clips	Format: H.264 (MOV) Resolution: CIF, D1, HD (1280 x 720 / 30 fps) Quality: Fine, Normal Frame Rate: Max. 30fps.



General	
Still image	Formats: JPEG (DPOF, EXIF) Resolution: 3MP, 5MP, 8MP (firmware interpolation) Quality: Auto
Zoom	Camcorder: 5X Optical Zoom Camera: 5X optical zoom Still Image Playback: Digital Zoom Max. 8X
Audio Video	Yes
TFT Monitor	3.0" TFT (960 x 240 pixels)
LED Flash (Video)	Mode: 0.5m ~ 1m Effective Range: On / Off
Strobe (Camera)	Effective Range: 1m ~ 1.5m Mode: Auto / Off / On
White balance	Auto/Sunny/Cloudy/Tungsten/Fluorescent
EV compensation	-2.0 EV~+2.0 EV
Self-timer	Off, 5, 10 seconds
PC interface	Camera: USB 2.0 (high speed) MSDC: USB 2.0 (high speed)
TV out format	NTSC/PAL/ Component output
Shutter	1 ~ 1/ 8000 sec.

General	
Auto power off	Off, 1 min., 5 min options.
Power supply	Li-Ion battery NP-120 battery
Dimension	57 (W) x 70 (H) x 129(D) mm
Weight	Approx. 292+-5g (without batteries)

## Troubleshooting

Problem	Possible Cause	Solution
Cannot turn on the camcorder.	The batteries are not inserted correctly. The batteries have no power.	<ul style="list-style-type: none"> <li>Insert the batteries correctly. (See 2.2 Inserting the batteries.)</li> <li>Please charge the battery. (See 2.3 Charging the battery.)</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>Please charge the battery. (See 2.3 Charging the battery.)</li> </ul>
The captured image is not stored in memory.	Before the image is saved the power has been cut off.	When battery indicator turns empty (without green bars), replace the battery immediately.
The camera turns off when capturing image using self-timer.	The camera is running out of battery power.	<ul style="list-style-type: none"> <li>Please charge the battery. (see 2.3 Charging the battery)</li> </ul>
The image is out of focus.	The subject is beyond focus	<ul style="list-style-type: none"> <li>Please take a picture within the available</li> </ul>

	range.	focus range and choose normal or macro mode. (See 3.2.2 Using the macro function).
Memory card cannot be used.	The memory card is protected. The memory card contains non-DCF images taken by other cameras.	<ul style="list-style-type: none"> <li>Unlock the memory card.</li> </ul> Format the memory card. (See 4.5.5 Format.) Before formatting the card, ensure you back 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>