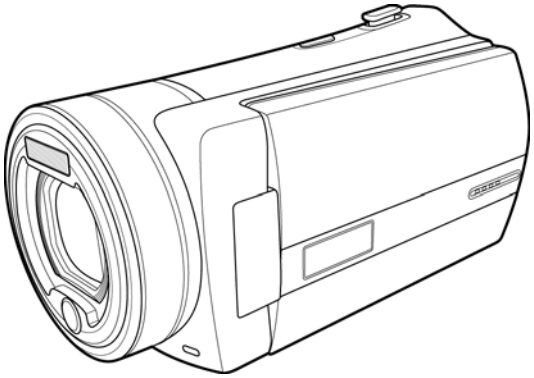
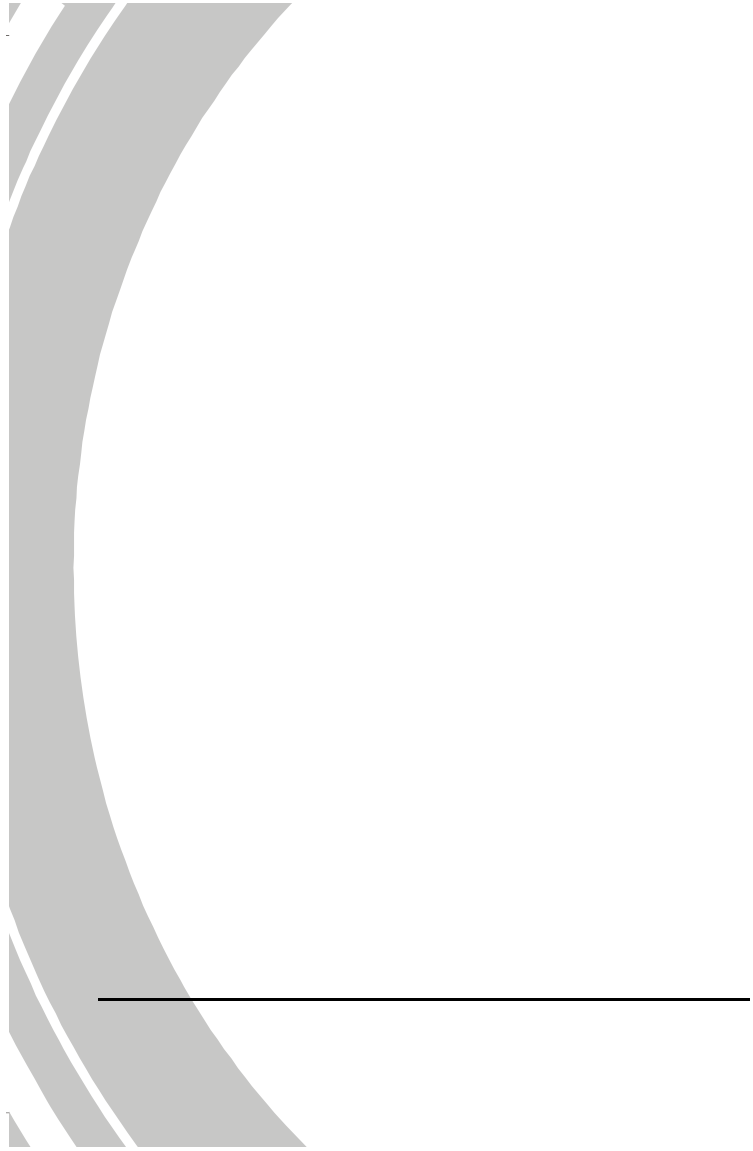
DXG-590V HD

User's Manual



DXG USA



About this manual.....v
Copyright.....v
Precautions.....vi
Before You Start.....viii

1 Introducing the camcorder..... 1

1.1 System requirements.....1
1.2 Features.....1
1.3 Unpacking the camcorder.....2
1.4 About the camcorder.....3
1.4.1 Front view.....3
1.4.2 Top view.....3
1.4.3 Bottom view.....4
1.4.4 Right view.....4
1.4.5 Left view.....5
1.4.6 Back view.....5
1.4.7 Control Panel.....6
1.4.8 Adjusting the LCD display.....7
1.4.9 About the LEDs.....12

2 Getting started..... 13

2.1 Inserting an SD card.....13
2.2 Inserting the batteries.....15
2.3 Charging the battery.....17
2.4 Turning on/ off the camcorder.....17
2.5 Changing modes.....17

2.6 Before you start 18
2.6.1 Setting the date and time 18
2.6.2 Setting the language 19
2.6.3 Setting the beep 20
2.7 Shoot/Playback video 21
2.7.1 Shooting a video clip 21
2.7.2 Playing the video clip 23
2.8 Taking/viewing pictures 24
2.8.1 Taking a still picture 24
2.8.2 Viewing images 25
2.9 Connecting to a computer 26
2.10 Connecting to a standard TV 26
2.11 Connecting to a HDTV 27
3 Using the camcorder 28
3.1 Camcorder mode 28
3.1.1 Camcorder mode 28
3.1.2 Using the macro function 29
3.1.3 Using the zoom function 29
3.1.4 Using the LED light 30
3.1.5 Using the Flash module, auto and force 30
3.1.6 Using the Stabilizer function 30
3.1.7 Quick access controls 30
3.2 Camera mode 31
3.2.1 Camera mode icons 31
3.2.2 Using the macro function 32

3.2.3 Using the zoom function....32
3.2.4 Using the LED light module....32
3.2.5 Quick access controls 32
3.3 Camcorder Playback mode....33
3.3.1 Camcorder Playback mode icons 33
3.4 Camera Playback mode....35
3.4.1 Camera Playback mode icons 35
3.5 Thumbnail mode 36
4 Using the menus 37
4.1 Camcorder menu....37
4.1.1. Video resolution....37
4.1.2. Video quality....38
4.1.3. White balance....39
4.1.4. Color effect 40
4.1.5. Stabilizer 41
4.1.6. Dual Video mode....42
4.2 Camcorder playback menu 43
4.2.1 Delete....43
4.2.2 Protect 45
4.2.3 Autoplay 46
4.3 Camera menu....47
4.3.1 Resolution....47
4.3.2 Photo Quality 48
4.3.3 White balance....48
4.3.4 Color effect 49

4.3.5 Selftimer 50
4.3.6 Aspect Ratio 51
4.4 Camera playback menu 52
4.4.1 Delete 52
4.4.2 Protect 54
4.4.3 Autoplay 55
4.5 System menu 56
4.5.1 Setting the beep 56
4.5.2 Auto power off 56
4.5.3 TV standard 57
4.5.4 Format 58
4.5.5 Default 59
4.5.6 Language 59
4.5.7 Frequency 60
4.5.8 Date/time 60
5 Installing the software and drivers 61
5.1 Presto! Video Works 61
5.2 Presto! Mr. Photo 62
5.3 Quick Time 63
Appendix 64
Specifications 64
Troubleshooting 67

Preface

Congratulations on your purchase of this advanced camcorder. Make sure 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. We reserve the right to change the contents of this manual and specifications of the product without prior notice.

If the accessories do not tally with the actual package, please take the actual package as the 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; this 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 camcorder should be at least one meter from the eyes of the subject.
- Do not open the 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 camcorder.

Notes on the LCD Screen

Caution must be observed when dealing with the fluid contained in the LCD. Ensure that fluid does not leak if the screen becomes cracked or damaged. If this occurs, follow these steps:

- If the fluid makes 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 seek immediate medical attention.
- If the fluid is swallowed, first rinse mouth with water, then drink a large amount of water and induce vomiting. Seek immediately medical attention.

Operation conditions

- This camcorder is designed for use in temperatures ranging from 0°C to 40°C (32°F to 104°F).
- Do not use or keep the camcorder 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 camcorder. 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 camcorder 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 camcorder in any important occasion (such as a wedding ceremony or an overseas trip), do test the camcorder 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

Please 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 operating system
- Intel® Pentium 4 2.8GHz CPU or higher (3GHz recommended)
- At least 1GB of RAM or higher (1GB recommended)
- 64MB or Greater Video Card
- Standard USB 1.1 port or higher
- At least 200MB of available disk space

> - **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

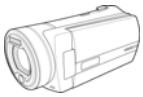
The camcorder offers a variety of features and functions including:

- HD Digital camcorder
- Digital camera (max. 12 Megapixels)

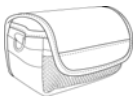
Additionally, the camcorder features 5X optical zoom, 10X digital zoom, USB mass storage, a LCD touch screen and EIS function.

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.



Camcorder



Pouch

User manual

USB cable

DC-in adapter
(optional)

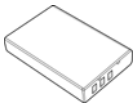
Battery charger

Power cord

AV cable

HDMI cable
(optional)

Remote control
(optional)



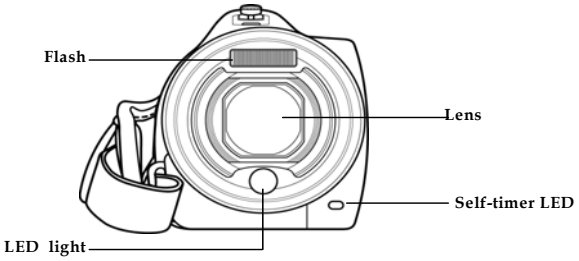
Li-ion battery
NP-120

CD-ROM
(Application software)

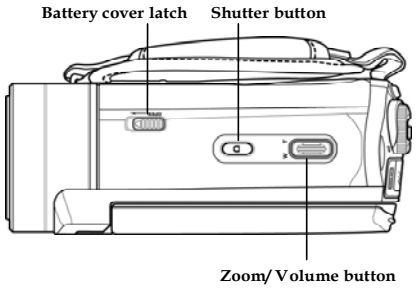
1.4 About the camcorder

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

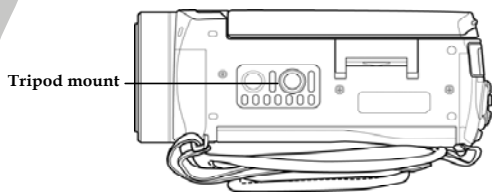
1.4.1 Front view



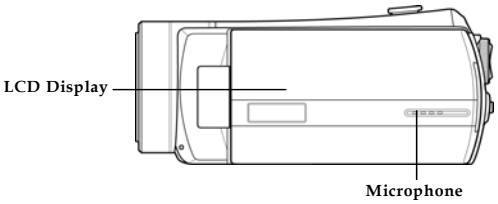
1.4.2 Top view



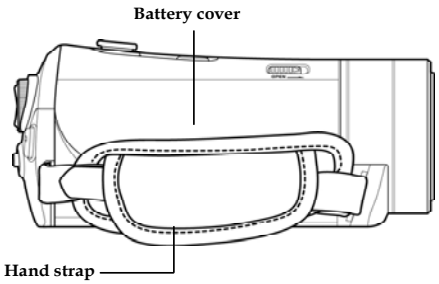
1.4.3 Bottom view



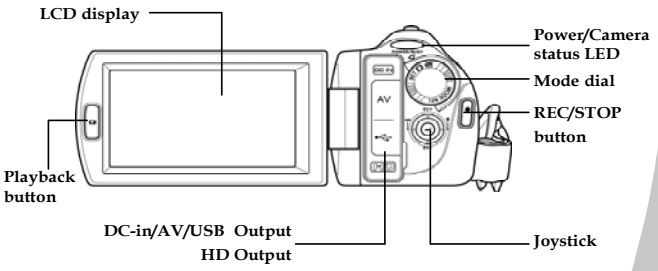
1.4.4 Right view



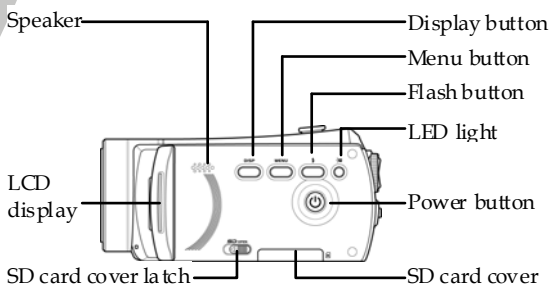
1.4.5 Left view



1.4.6 Back view

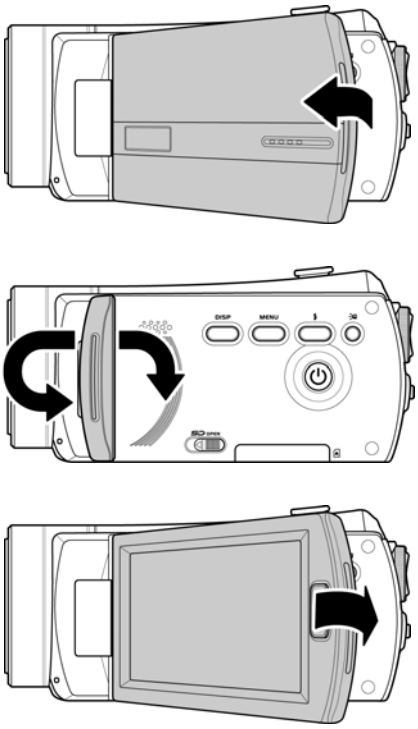


1.4.7 Control Panel



1.4.8 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 to turn power on/off.
	Menu button	Press to display main OSD menus.
	Mode dial	Use to turn **Camcorder, Camera,** and **SET** modes.
	Joystick	● In **Camcorder** and **Camera** mode: 1. Move up/ down to adjust the exposure settings. 2. Move right to enable the macro function. A icon appears on the LCD screen when enabled. 3. Move left to adjust the white balance settings. ● In **Camera Playback** mode: 1. Move right and left to view the stored images. 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). 3. Move the joystick up to enter the Thumbnail mode. 4. In the **Thumbnail** mode, move up, down, left, right to select the thumbnail images and then press the center joystick button to view the image in full screen mode. ● In **Camcorder Playback** mode: 1. Press right and left to view the stored video clips and press the center joystick button to play/ stop the video clips. 2. In **Playing** mode, move right to fast-forward a video clip and move left to rewind a video clip. 3. Move the joystick up to enter the Thumbnail mode. 4. In the **Thumbnail** mode, move up, down, left, right to select a desired video clip and then press the center joystick button to show the video clip. ● In SET mode, press left and right to highlight menu items and press the

		center joystick button to confirm.
	Shutter button	● In **Camera** mode, press to take a photo. ● In **Camcorder** mode, you can also press to take a photo before and during recording a video clip.
	REC/Stop button	● In **Camcorder** mode, press to start recording a video clip.
	Playback button	In **Camcorder** and **Camera** 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	● In **Camcorder** and **Camera** modes, press right/ left to zoom in and out. ● In **Camera Playback** mode, press right to zoom in your photo. ● In **Camcorder Playback** mode, press left/ right to increase or decrease the volume of the video clip you are playing.

	LED light button	● In **Camcorder** and **Camera** modes, press the button to turn on/ off the increase light.
	Flash button	● In **Camera** modes, press the button to switch between the flash modes.
	SD card cover latch	● Slide the latch to open the SD card cover when you insert/remove the SD card.
	Battery cover latch	● Slide the latch to open the battery card cover when you insert/remove the battery.

1.4.9 About the LEDs

The following table describes the camcorder LEDs:

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

2 Getting started

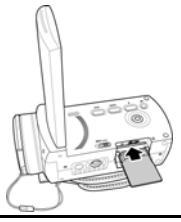
Read this section to learn how to start using the camcorder. This section covers basic functions such as switching on, inserting the battery and memory cards, and configuring preliminary settings. See later chapters for advanced functions.

2.1 Inserting an SD card **(SD Card sold separately)**

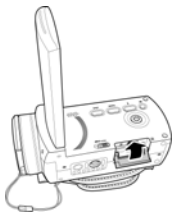
An SD card can be used with the camcorder to provide additional storage space for still images, video clips, or other files.

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.

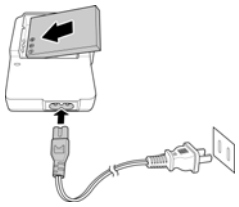
2. Insert the battery as shown.

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. The red LED will light up for proper charging.
3. After full charge, the LED turns to green.
4. It takes about 290 minutes to achieve full charge. Actual charging time depends on current battery capacity and charging conditions.



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.

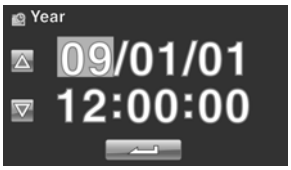
2.6 Before you start

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 left and right or tap the screen to highlight **Date / Time**. Press the center joystick button to confirm.

2. Move the joystick left and right or tap the screen to highlight each field.

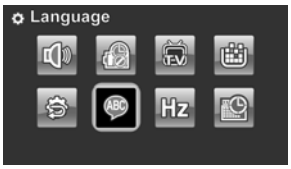


3. Adjust each value by moving the joystick up, down, or tap the / . Press the center joystick button or tap to save your changes and leave the **Date/ Time** menu.

4. Press the **Enter** button to exit the menu.

2.6.2 Setting the language

1. Turn on the camcorder, and move the mode dial to **SET**. Move the joystick left and right or tap the screen to highlight **Language**. Press the center joystick button to enter the **Language** menu.



2. Move the joystick left and right or tap the screen to select the following languages: English, Japanese, French, Italian, Spanish, Portuguese, Dutch, Simplified Chinese, Traditional Chinese, Korean, Turkish, German, Russian, and Arabic. Move the joystick up and down or tap / to go to the previous/next page. After the language is selected, press the center joystick button or tap to confirm.

3. Press the **Enter** button to exit the menu.

2.6.3 Setting the beep

1. Turn on the camcorder, and move the mode dial to **SET**. Move the joystick left and right or tap the screen to highlight **Beep**. Press the center joystick button to enter the **Beep** menu.

2. Move the joystick left and right to select **Beep Off** or **Beep On** options. Press the center joystick button or tap to confirm.

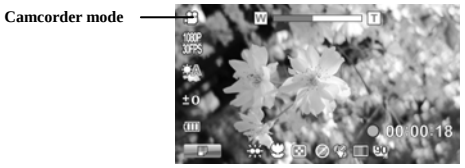
3. Press the **Enter** button to exit the menu.

Notes:
Remove the LCD protective film to increase the sensitivity of the touch panel.

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 approximately 3.75 GB.
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
WQVGA WVGA 720P 1080P	16:9 ratio	4:3 ratio

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 right and left to or tap / select a desired video clip and press the center joystick button or . The video clip starts playing.
3. Move the joystick left or tap to rewind the video clip and move the joystick right or tap to fast forward.
4. Press the **REC/ STOP** button or tap to pause the video playback. Press the **REC/ STOP** button again or tap 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 or tap to stop playing. Tap SLOW to view the video clip in 1/2 x slow playback. Tap SLOW twice to toggle between 1/2x and 2x speeds. Tap SLOW then tap to toggle among 1/4, 1/8 & 1/16 speeds.
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 right and left or tap / to scroll through the images.
3. Move the **Zoom** button right to zoom in the picture. There are four direction keys appears on the LCD screen. You may use the joystick to pan across the picture.
4. Move the joystick up fully or tap to view the thumbnails of all stored images.
5. Move the joystick left and right to select an image. Move the joystick up and down or tap / to go to the previous/next page
6. Press the center joystick button or tap to view the image in full screen mode.
7. Press the **Playback** button again to return to **Camera** mode.

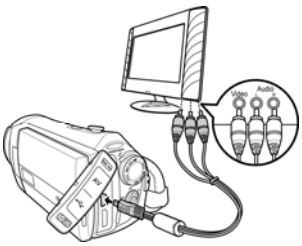
2.9 Connecting to a computer

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

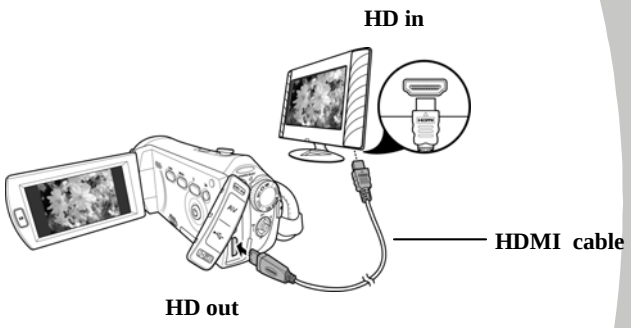
Connect the camcorder to a standard TV as shown with the AV cable provided.



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 HDMI cable provided.



Notes:
When connected to an HDTV, dual video output is supported. You can view videos on the TV and operate the LCD panel at the same time.

3 Using the camcorder

Read this section to learn how to use the camcorder.

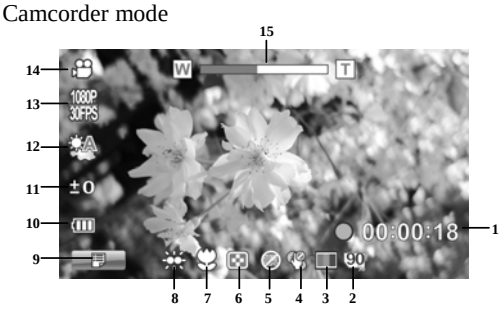
3.1 Camcorder mode

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

3.1.1 Camcorder mode

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

Camcorder mode



Camcorder mode:

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

1	00:00:18	Recording time elapsed
2	90	Memory status indicator : SD card in

3		Stabilizer indicator
4		Dual video indicator
5		Color effect indicator
6		Quality indicator
7		Macro indicator
8		LED light indicator
9		Menu indicator. Tap to enter the video menu.
10		Battery indicator
11		EV compensation indicator
12		White balance indicator
13		Video resolution indicator
14		Camcorder mode indicator
15		Zoom 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** or **Camcorder** 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 and 10X digital 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 light

Use the LED light to illuminate subjects in dark environments.

Press the **LED 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 button**. The or displays on your camcorder when activated.

3.1.6 Using the Stabilizer function

Use the Stabilizer function to reduce vibration caused by camcorder shanks during a video shoot.

See section 4.1.5 “Stabilizer”.

3.1.7 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 left to choose white balance settings.

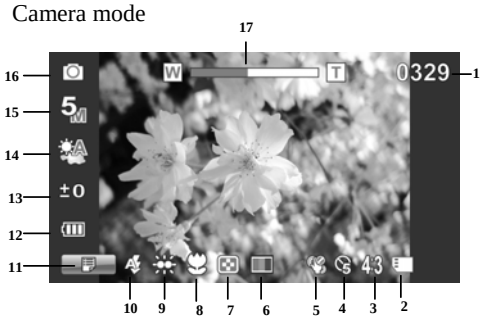
3.2 Camera mode

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

3.2.1 Camera mode icons

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

Camera mode



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

1	0329	Remaining number of photos
2		Memory status indicator : SD card in
3	4:3	Aspect ratio indicator
4		Self-timer indicator
5		Stabilizer indicator

6		Color effect indicator
7		Quality indicator
8		Macro indicator
9		LED light indicator
10		Flash indicator
11		Menu indicator. Tap to enter the camera menu.
12		Battery indicator
13		EV compensation indicator
14		White balance indicator
15		Video resolution indicator
16		Camera mode indicator
17		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 light module

See section 3.1.4 “Using the LED light”.

3.2.5 Quick access controls

See section 3.1.7“Quick access controls”.

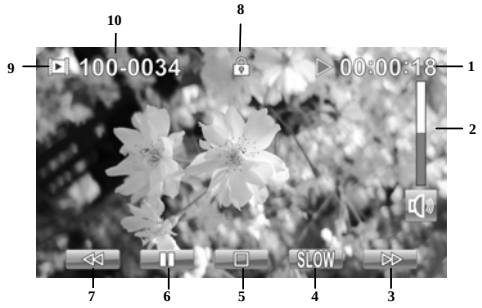
3.3 Camcorder Playback mode

Use **Camcorder Playback** mode to review all the movie files stored on the SD card.

3.3.1 Camcorder Playback mode icons

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

Camcorder playback mode



Camcorder mode:

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

1	00:00:18	Displays the elapsed time while playing the video clip

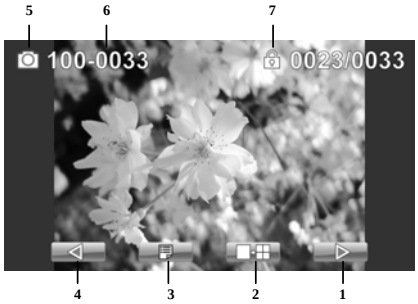
2		Volume level indicator
3		Fast forward icon. Tap to fast forward the video clip
4		Slow motion icon. Tap to play the video in slow motion
5		Stop icon. Tap to stop the video.
6		Pause icon. Tap to pause the video.
7		Rewind icon. Tap to rewind the video.
8		File protect indicator
9		Camcorder playback mode icon
10		Displays the file number of the video 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.



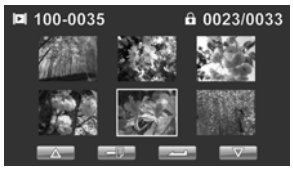
See the table below for a description of each icon and symbol.

1		Next icon. Tap to go to the next image.
2		Thumbnail icon. Tap to display images in thumbnail.
3		Menu icon. Tap to display the playback menu.
4		Back icon. Tap to return to the previous image.
5		Camera playback mode icon.
6	100-0033	File number indicator
7		File protect indicator

3.5 Thumbnail mode

When in **Camera Playback** or **Camcorder Playback** modes, move the joystick up or tap 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. Move the joystick up or tap to view **six** thumbnail images /video clips on the LCD screen.



3. Move the joystick left and right or tap the screen highlight an image or a video clip. Move the joystick up and down or tap / to go to the previous/next page.
4. Press the center joystick button or tap to view the image or playback the video clip in full screen mode.
5. Move the joystick up or tap to return to thumbnail view.

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 or tap to show the camcorder options menu.

4.1.1. 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 or tap to enter the **Camcorder** menu.
3. Move the joystick left and right or tap the screen to highlight the **Resolution** option. Press the center joystick button to display the submenu.
4. Press the joystick left and right to select 1**080P/30FPS, 720P/60FPS, 720P/30FPS, WVGA/60FPS, WVGA/30FPS, or WQVGA/240FPS**. Press the center joystick button or tap to confirm and exit the submenu.

5. Press the **Enter** button to exit the menu.

> ● **Note**:
> In 1080P mode, you can capture a photo when the video is recording.

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 camcorder on and ensure it is in **Camcorder** mode.
2. Press the **Menu** button or tap to enter the **Camcorder** menu.
3. Move the joystick left and right or tap the screen to highlight the **Quality** option. Press the center joystick button to display the submenu.
4. Press the joystick left and right or tap the screen to select the desired option. Press the center joystick button or tap to confirm and exit the submenu.

5. Press the **Enter** button 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 camcorder automatically compensates for different lighting conditions.

1. Turn the camcorder on and ensure it is in **Camcorder** mode.
2. Press the **Menu** button or tap to enter the **Camcorder** menu
3. Move the joystick left and right or tap the screen to highlight the **White Balance** menu. Press the center joystick button to display the submenu.
4. Move the joystick left and right or tap to select **Auto**, **Sunny**, **Cloudy**, **Tungsten**, or **Fluorescent**. Press the center joystick button or tap to confirm and exit the submenu.

5. Press the **Enter** button to exit the menu.

4.1.4. 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 or tap to enter the **Camcorder** menu
3. Move the joystick left and right or tap the screen to highlight the **Effect** menu. Press the center joystick button to display the submenu.
4. Move the joystick left and right or tap to select **Natural**, **B&W**, or **Sepia**. Press the center joystick button or tap to confirm and exit the submenu.

5. Press the **Enter** button to exit the menu.

4.1.5. Stabilizer

Use this function to reduce vibration caused by camcorder shakes during a video shoot.

1. Turn the camcorder on and ensure it is in **Camcorder** mode.
2. Press the **Menu** button or tap to enter the **Camcorder** menu
3. Move the joystick left and right or tap the screen to highlight the **Stabilizer** menu. Press the center joystick button to display the submenu.
4. Move the joystick left and right or tap to select **Off** or **Stabilizer** options. Press the center joystick button or tap to confirm and exit the submenu.

5. Press the **Enter** button to exit the menu.
6. An icon displays on the screen.

4.1.6. Dual Video mode

Use this function to record two deferent resolution video clips at same time.

1. Turn the camcorder on and ensure it is in **Camcorder** mode.
2. Press the **Menu** button or tap to enter the **Camcorder** menu
3. Move the joystick left and right or tap the screen to highlight the **Dual Video** menu. Press the center joystick button to display the submenu.
4. Move the joystick left and right or tap to select **Off**, **1080P/WQVGA,** or **720P/ WQVGA** . Press the center joystick button or tap to confirm and exit the submenu.

5. Press the **Enter** button to exit the menu.

- **Note**:
  When this dual video function is enabled, you can still capture photo when you press the shutter button.

4.2 Camcorder playback menu

Use the playback menu to manage the files stored 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 or tap to display the **Camcorder Playback** menu.
2. Move the joystick left and right or tap the screen to select **Delete One** or **Delete All** options.

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

If you select **Delete All**, a prompt appears on screen for confirmation. Move the joystick left and right or tap the screen to select the desired option. Press the center joystick button or tap to confirm. All files stored in memory will be deleted.

3. Press the **Menu** button or tap 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 or tap to display **Camcorder Playback** menu.
2. Move the joystick left and right or tap the screen to select **Protect** menu. Press the center joystick button or tap to display the submenu.
3. Then playback screen appears again. Move the joystick or tap / to locate the file you want to protect. Press the center joystick button or tap to protect or unprotect the file. A lock icon is displayed to show that the file is protected.

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

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

4.2.3 Autoplay

This camcorder includes an **Autoplay** function, which plays each video clip in turn.

1. Turn the camcorder on and ensure it is in **Camcorder** mode. Press the **Playback** button and then press the **Menu** button or tap to display **Camcorder Playback** menu.
2. Move the joystick left and right or tap the screen to select **Autoplay** menu. Press the center joystick button or tap to display the submenu.
3. Move the joystick right and left or tap the screen to select the desired options. Press the center joystick button or tap to confirm.

4. Press the **Menu** button or tap to exit the menu.

4.3 Camera menu

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

4.3.1 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 or tap to enter the **Camera** menu
3. Move the joystick left and right or tap the screen to highlight the **Resolution** menu. Press the center joystick button to display the submenu.
4. Move the joystick left and right to select from **12M**, **5M, 2M, 1M, 5M burst** or **1M burst**. Press the center joystick button or tap to confirm.

5. Press the **Enter** button to exit the menu.

4.3.2 Photo Quality

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

1. Turn the camcorder on and ensure it is in **Camera** mode.
2. Press the **Menu** button or tap to enter the **Camera** menu.
3. Move the joystick left and right or tap the screen to highlight the **Quality** option. Press the center joystick button to display the submenu.
4. Press the joystick left and right or tap the screen to select the desired option. Press the center joystick button or tap to confirm and exit the submenu.

5. Press the **Enter** button to exit the menu.

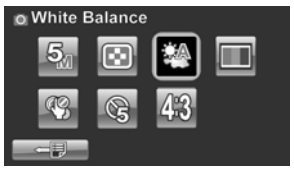
4.3.3 White balance

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 or tap to enter the **Camera** menu.

3. Move the joystick left and right or tap the screen to highlight the **White Balance** option. Press the center joystick button to display the submenu.

4. Move the joystick left and right to select **Auto**, **Sunny**, **Cloudy**, **Tungsten**, or **Fluorescent**. Press the center joystick button or tap to confirm.



5. Press the **Enter** button to exit the menu.

4.3.4 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 or tap to enter the **Camera** menu.

3. Move the joystick left and right or tap the screen to highlight the **Effect** menu. Press the center joystick button to display the submenu.

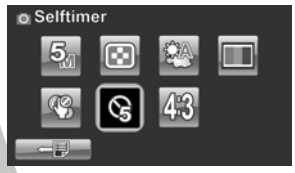
4. Move the joystick left and right or tap to select **Natural**, **B&W**, or **Sepia**. Press the center joystick button or tap to confirm and exit the submenu.

5. Press the **Enter** button 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 or tap to enter the **Camera** menu.
3. Move the joystick left and right or tap the screen to highlight the **Self-timer** menu. Press the center joystick button to display the submenu.
4. Move the joystick left and right or tap to select **Off**, **5 seconds**, or **10 seconds** options. Press the center joystick button or tap to confirm.

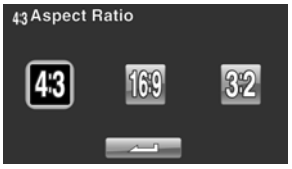


5. Press the **Enter** button to exit the menu.

4.3.6 Aspect Ratio

Use the aspect ratio function to adjust the aspect ratio of the display.

1. Turn the camcorder on and ensure it is in **Camera** mode.
2. Press the **Menu** button or tap to enter the **Camera** menu.
3. Move the joystick left and right or tap the screen to highlight the **Aspect Ratio** menu. Press the center joystick button to display the submenu.
4. Move the joystick left and right or tap to select **4:3**, **16:9**, or **3:2** options. Press the center joystick button or tap to confirm.



5. Press the **Enter** button to exit the menu.

4.4 Camera playback menu

4.4.1 Delete

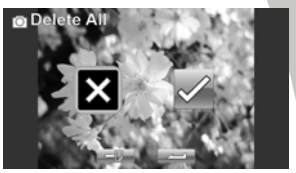
Use this function to delete files.

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

2. Move the joystick left and right or tap the screen to select **Delete One** or **Delete All** options.

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

If you select **Delete All**, a prompt appears on screen for confirmation. Move the joystick left and right or tap the screen to select the desired option. Press the center joystick button or tap to confirm. All files stored in memory will be deleted.



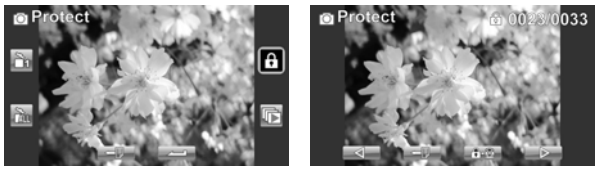
3. Press the **Menu** button or tap to exit the menu.

- **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 lock files to prevent accidental deletion.

1. Turn the camcorder on and ensure it is in **Camera** mode. Press the **Playback** button and then press the **Menu** button or tap to display **Camera Playback** menu.
2. Move the joystick left and right or tap the screen to select **Protect** menu. Press the center joystick button or tap to display the submenu.
3. Then playback screen appears again. Move the joystick or tap / to locate the file you want to protect. Press the center joystick button or tap to protect or unprotect the file. A lock icon is displayed to show that the file is protected.



4. Press the **Menu** button again or tap 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 Autoplay

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 or tap to display **Camera Playback** menu.
2. Move the joystick left and right or tap the screen to select Autoplay menu. Press the center joystick button or tap to display the submenu.
3. Move the joystick right and left or tap the screen to select the desired options. Press the center joystick button or tap to confirm. The images are displayed automatically.

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

4.5 System menu

The system menu is used to configure miscellaneous camcorder functions.

4.5.1 Setting the beep

See section 2.6.3 "Setting the Beep".

4.5.2 Auto power off

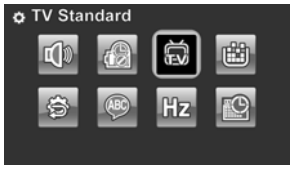
Use this function to switch the camcorder off automatically after a period of inactivity for power saving.

1. Turn on the camcorder and switch to **SET** mode.
2. Move the joystick left and right or tap highlight the **Auto Power Off** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right or tap to select **Off**, **5 minute**, or 10 **minutes.** Press the center joystick button or tap to confirm.

4.5.3 TV standard

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

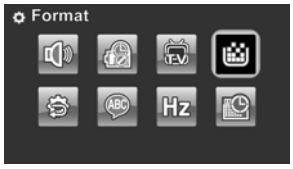
1. Turn on the camcorder and switch to **SET** mode.
2. Move the joystick left and right or tap to highlight the **TV standard** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right or tap to select **NTSC** or **PAL**, and press the center joystick button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



4.5.4 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 left and right or tap to highlight the **Format** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right or tap to select X or √, and press the center joystick button or tap to confirm.



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

4.5.5 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 left and right 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.

4.5.6 Language

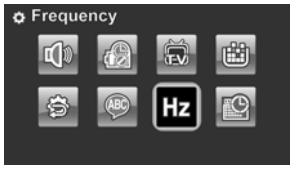
See section 2.6.2 “Setting the language”.

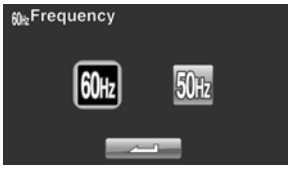
4.5.7 Frequency

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 left and right to highlight the **Frequency** option. Press the center joystick button to display the submenu.
3. Move the joystick left and right to select 5**0 Hz or 60 Hz.** Press the center joystick button or tap to confirm.





4.5.8 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 camcorder.

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.

Install button

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

More information about Presto! Video Works 6 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 camcorder or on the SD/MMC 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	Internal: Built-in 128MB Flash Memory External: SD Card (Up to SDHC 16GB Class6)
Sensor sensitivity	Auto
Color effects	Natural/B&W/Sepia
Lens	5X Optical zoom lens f=6.8-34mm Wide: F3.5 Tele: F3.7 (41-207mm equivalent to 35mm)
Focus range	Normal: 10cm ~ inf. (Wide), 1m ~inf. (tele) Macro: 2cm ~ 80cm (Wide)

General	
Still image	Formats: JPEG (EXIF2.2), DCF Resolution: 1MP, 2MP, 5MP, 12MP (Firmware interpolation) Continuous Shots: 5M, Max. 12 photos/sec; 1M, Max. 30 photos/sec.
Video clips	Format: H.264 (MOV) Resolution: WQVGA (240fps), WVGA (30fps), WVGA (60fps), 720p (30fps), 720p (60fps), 1080p (30fps)
Zoom	Camcorder: 5X Optical Zoom, 10X Digital Zoom Camera: 5X Optical zoom, 10X Digital zoom Playback: Still Image (8X)
TFT Monitor	3.0" TFT (960 x 240 pixels)
LED light (Video)	Effective Range: 0.5m ~ 1m Mode: On / Off
Strobe (Camera)	Mode: Auto / Off / On
White balance	Auto/Sunny/Cloudy/Tungsten/ Fluorescent

General	
EV compensation	-2.0 EV~+2.0 EV
Self-timer	Off, 5, 10 seconds
PC interface	USB 2.0 (high speed)
TV out format	NTSC/PAL/ HDMI
Shutter	Still: 1/2-1/2000 Video: 1/30-1/4000
Auto power off	Off, 5 min., 10 min
Power supply	Li-Ion battery NP-120 battery/DC-in via USB
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.	• Insert the batteries correctly. (See 2.2 Inserting the batteries.) • Please charge the battery. (See 2.3 Charging the battery.)
The camcorder suddenly turns off.	The auto power off function was enabled. The camcorder is running out of battery power.	• Turn the power on again. • Please charge the battery. (See 2.3 Charging the battery.)

Problem	Possible Cause	Solution
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 camcorder turns off when capturing image using self-timer.	The camcorder is running out of battery power.	• Please charge the battery. (see 2.3 Charging the battery)
The image is out of focus.	The subject is beyond focus range.	• Please take a picture within the available focus range and choose normal or macro mode. (See 3.2.2 Using the macro function).

Problem	Possible Cause	Solution
Memory card cannot be used.	The memory card is protected. The memory card contains non-DCF images taken by other camcorders. The SD card speed is too low.	• Unlock the memory card. • Format the memory card. (See 4.5.4 Format.) Before formatting the card, ensure you back up the files. • You can set the video or photo to lower quality. (See 4.1.2 Video quality)
All buttons are inactive.	Short circuit occurred when connecting the camcorder with other devices.	• Remove the batteries from the camcorder and insert again.

Website:

Please visit our website at www.dxgusa.com for any product updates or special announcements.

You can also check out our online support desk where you can register your product, send emails to our technical support, and find a list of frequently asked questions (FAQs).

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