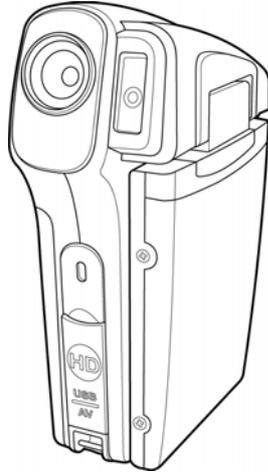


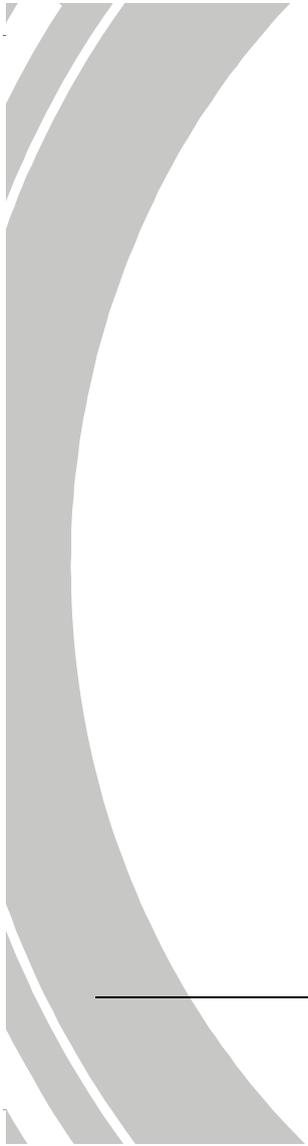
**DXG-581V**

**User's Manual**



**DXG USA**

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## **Preface**

---

Congratulations on your purchase of this advanced video camera. 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 and 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 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 camera.

### 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 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.

- Make sure 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**

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 camera

---

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

## 1.1 System requirements

The video camera requires a PC with the following specifications:

- Windows® Vista(32 bit) / XP / 2000 operating system
- Intel® Pentium 4 2.8GHz CPU or higher (3GHz recommended)
- At least 512 MB of RAM or higher (1GB recommended)
- Standard USB 1.1 port or higher
- At least 64MB or greater video card
- At least 200MB of available disk space

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

## 1.2 Features

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

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

Additionally, the camera also has 4X digital zoom, Audio/Video out, HDMI Output, and USB mass storage feature.

### 1.3 Unpacking the video camera

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



**Video camera**



**Pouch**



**User manual**



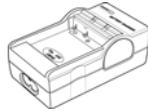
**USB/AV cable**



**Power cable**



**CD-ROM  
(Driver and application  
software)**



**Battery charger**

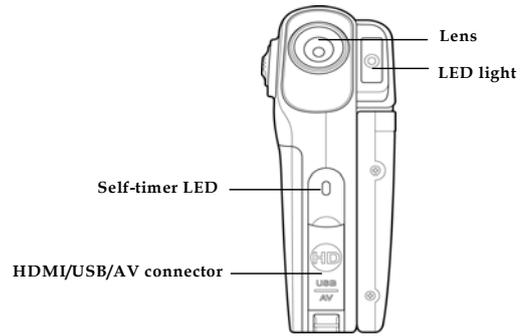


**Li-ion battery**

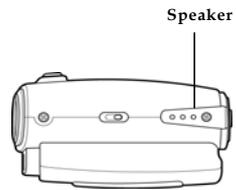
## 1.4 About the camera

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

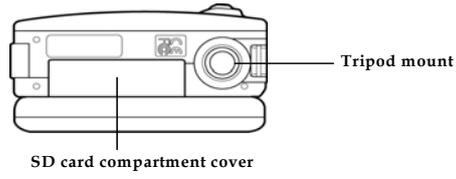
### 1.4.1 Front view



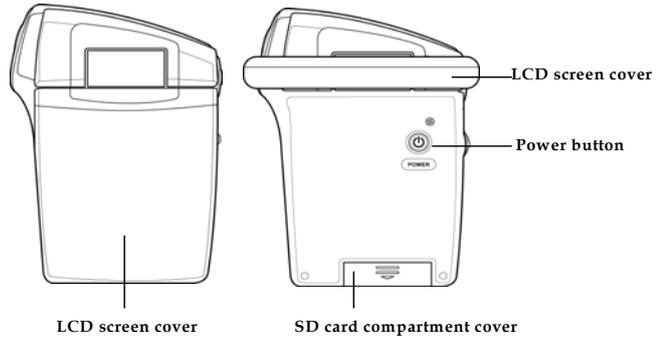
### 1.4.2 Top view



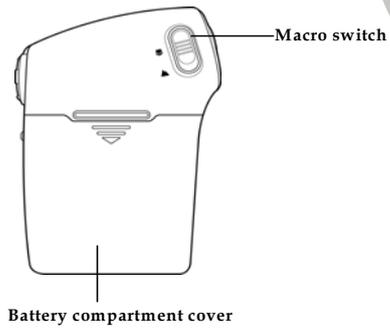
### 1.4.3 Bottom view



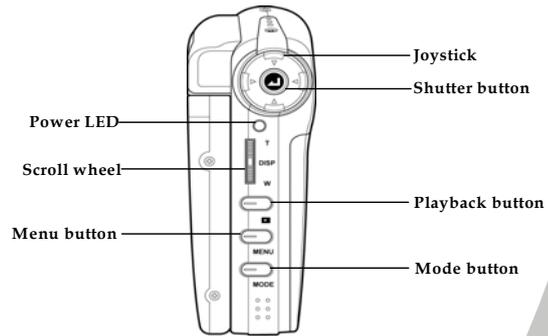
### 1.4.4 Right view



### 1.4.5 Left view

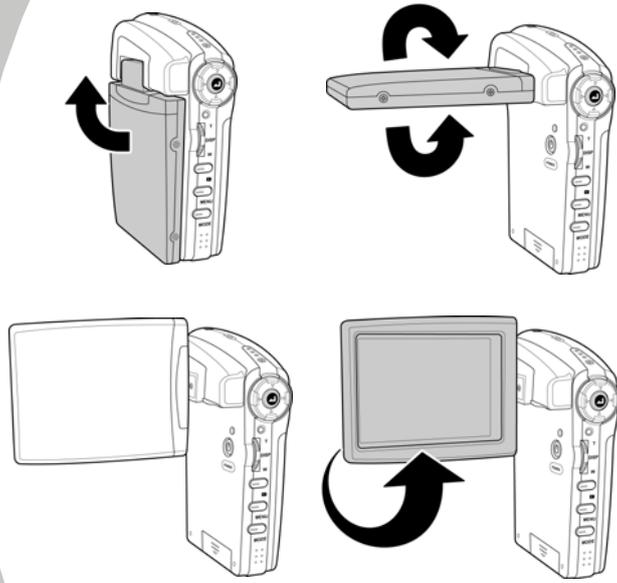


### 1.4.6 Back view



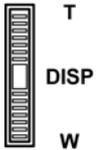
### 1.4.7 Adjusting the LCD display

Flip and twist the LCD screen as shown when 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.
	Joystick	<ul style="list-style-type: none"> <li>● In <b>Movie</b> mode, press up/down to adjust the EV compensation, press right to select video resolution, press left to turn on/off the white-light LED. Then press the center joystick button to begin/stop filming.</li> <li>● In <b>Voice Recorder</b> mode, press the center joystick button to begin/stop recording.</li> <li>● In <b>Photo</b> mode, press the joystick up/down to adjust the EV compensation, press right to select image size, and press left to turn on/off the white-light LED. Then press the center joystick button to take a photo.</li> <li>● In <b>Movie/Voice/Photo Playback</b> mode, press left/right to select files to replay. Press up to pause playback. Press down to activate the delete submenu. Press left/right to select the file to</li> </ul>

		<p>be deleted, then press the center joystick button to delete the file.</p> <ul style="list-style-type: none"> <li>● In <b>SETUP</b> mode, press the joystick up/down and press the center joystick button to select menu items.</li> </ul>
	<p>Scroll wheel</p>	<ul style="list-style-type: none"> <li>● In <b>Movie</b> and <b>Photo</b> modes, move up to zoom in, and down to zoom out. Press inwards once to turn all OSD icons off. Press again to display the help diagram that illustrates button functions.</li> <li>● In <b>Movie/Voice Playback</b> mode: <ol style="list-style-type: none"> <li>1. Move up and down to adjust playback volume during replaying. Move down to display the video clips in thumbnail mode.</li> <li>2. Press inwards once to turn all OSD icons off. Press again to display file information. Press a third time to display the help diagram that illustrates button functions.</li> </ol> </li> <li>● In <b>Photo Playback</b> mode: <ol style="list-style-type: none"> <li>1. Move up to enlarge the current file, and down fully to display the pictures in thumbnail mode.</li> </ol> </li> </ul>

		2. Press inwards once to turn all OSD icons off. Press again to display file information. Press a third time to display the help diagram that illustrates button functions.
	Playback button	In <b>Movie/Voice Recorder</b> and <b>Photo</b> modes, press to enter playback mode.
	Menu button	Press to display main OSD menus.
	Mode button	Use to toggle <b>Movie/Voice Recorder, Photo, and SETUP</b> modes.
	Macro switch	Move the switch to the  position to enable <b>Macro</b> mode.

### 1.4.8 About the LEDs

The following table describes the camera LEDs:

LED	Color	Definition
<b>Power / Rec.</b>	Green	Power-on
	Red Blinking	Recording
	Red	Camera busy
	Red Blinking	Self-timer is activated
	Red Blinking Rapidly	2 seconds self-timer remaining
<b>Self-timer</b>	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 video camera. This section covers basic functions such as switching on, inserting the battery and memory cards, and configuring preliminary settings. See later chapters for advanced functions.

### 2.1 Inserting an SD card (sold separately)

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

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



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



3. Press down the SD card compartment cover.



4. Push the SD card compartment cover inwards.



## 2.2 Inserting the battery

This video camera is designed to use a rechargeable Li-ion battery. Only use the battery 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 camera and possibly start a fire.

1. Open the battery compartment cover.



2. Insert the battery as shown.



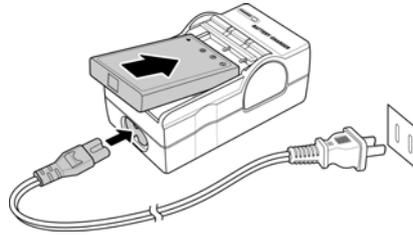
3. Close the battery compartment cover.



## 2.3 Charging the battery

You can charge the battery with the charging unit provided.

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 below.



2. The red LED will light up for proper charging.
3. After full charge, the LED turns to green.
4. It takes about 100 minutes to achieve full charge. Actual charging time depends on current battery capacity and charging conditions.

## 2.4 Turning on the video camera

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

## 2.5 Changing modes



The video camera can operate in four modes, **Movie/Voice Recorder**, **Photo**, and **SETUP**. Press the mode button to toggle different modes.

## 2.6 Before you start

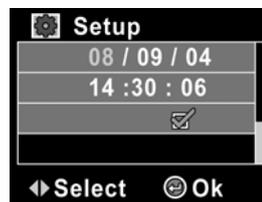
Before you start using the video camera, some basic settings such as date and time, languages and beep function need to be configured.

### 2.6.1 Setting the date and time

1. Turn on the video camera, and press the **Mode** button to display the **Setup** menu. Press the joystick up/down to highlight the **Date / Time** option. Press the center joystick button to view the submenu.



2. Press the joystick left/right to highlight each field. Then press the center joystick button to confirm.

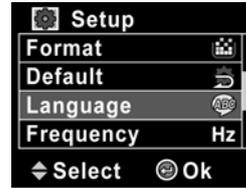


3. Press the joystick up/down to adjust the value. Then press the center joystick button to save your changes.

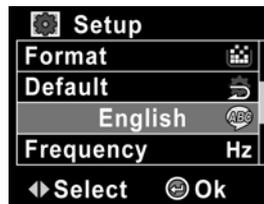
4. Press the MENU button to exit.

## 2.6.2 Setting the language

1. Turn on the video camera, and press the **Mode** button to display the **Setup** menu. Press the joystick up/down to highlight **Language**. Press the center joystick button to confirm.



2. Press the joystick left/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.



3. Press the MENU button to exit.

### 2.6.3 Setting the beep

1. Turn on the video camera, and press the **Mode** button to switch to **Setup** menu. Press the up/down buttons to highlight **Beep**. Press the center joystick button to confirm.



2. Press the joystick left/right to select the tick/cross icon and press the center joystick button to enable/disable the beep function .

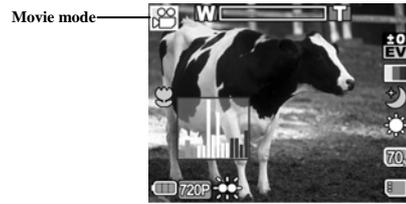


3. Press the **MENU** button to exit.

## 2.7 Shoot/playback video

### 2.7.1 Shooting a video clip

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



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

**Notes:**

1. The maximum length of each video recording file is 3.75GB.
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
1080P (1440 x 1080)	16:9 ratio 	4:3 ratio 
720P (1280 x 720)		
480P (720 x 480)		
CIF (352 x 240)	4:3 ratio 	4:3 ratio 

## 2.7.2 Playing the video clip

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



2. Press the joystick left/right to select the video clips. Then press the center joystick button to play back the video clip.
3. To pause while playing back the video clip, press the joystick up.
4. Press the joystick right for fast forward playback (2X, 4X, 8X, or 16X), the left for fast rewind (2X, 4X, 8X, or 16X), and the down for slow forward (1/2X, 1/4X, 1/8X, or 1/16X).
5. When viewing the video clip, move the scroll wheel up and down to adjust the volume.
6. Press the center joystick button to stop playing.
7. Press the **Playback** button again to return to **Movie** mode.

## 2.8 Recording/playing voice

### 2.8.1 Recording a voice file

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



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

## 2.8.2 Playing back a voice file

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



2. Press the joystick left/right to select the voice file you want to play. Press the center joystick button to playback the voice file.
3. When playing a voice file, use the scroll wheel to adjust the volume.
4. Press the joystick up to pause playing, and press again to continue.
5. Press the center joystick button again to stop playback.
6. Press the joystick down to delete the current file. Press the center joystick button to confirm.
7. Press the **Playback** button to return to **Voice** mode.

## 2.9 Taking/viewing pictures

### 2.9.1 Taking a still picture

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



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

## 2.9.2 Viewing images

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

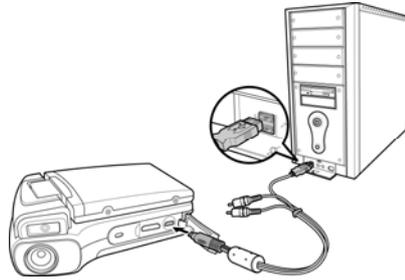


2. Press the joystick left/right to select the images.
3. Move the scroll wheel up to zoom in the picture. Then you can use the joystick to move the image up/down or left/right.
4. Move the scroll wheel down fully zoomed out to view thumbnails of all stored files and then use the joystick to select the thumbnail images.
5. Press the scroll wheel inwards to view the image in full screen mode. Press again to view the file information, and again to view the button function illustration.
6. Press the **Playback** button again to return to **Photo** mode.

## 2.10 Connecting to a computer

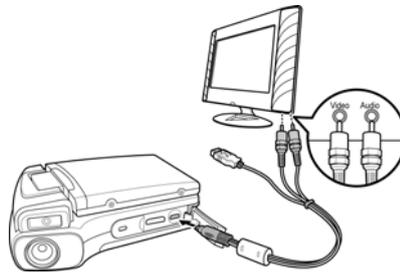
Read this section to learn how to transfer files to a PC, show the video clips or photos on TV/DVD.

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



## 2.11 Connecting to a standard TV

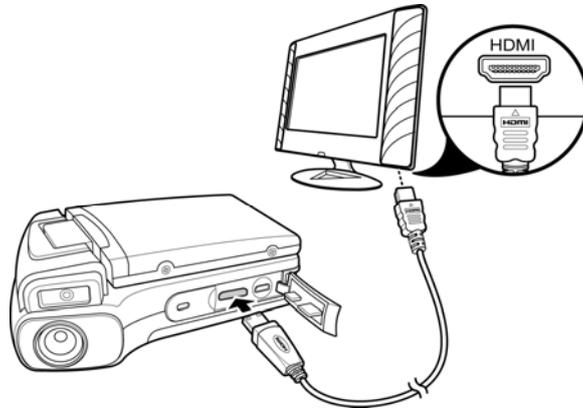
Connect the video camera to a standard TV as shown with the AV cable provided.



## 2.12 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 video camera to a HDTV as shown with HDMI cable provided.



### 3 Using the camera

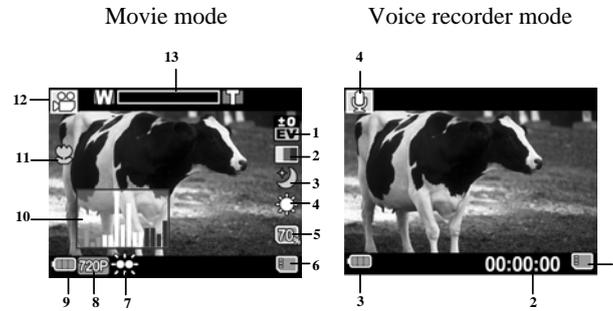
Read this section to learn how to use the camera.

#### 3.1 Movie 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 Movie and voice recorder mode icons

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



##### Movie 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		Remaining memory capacity
6		Memory status indicator  : SD card indicator  : Internal memory indicator
7		LED flash light indicator
8		Resolution indicator
9		Battery indicator
10		Histogram indicator
11		Macro indicator
12		Movie mode indicator
13		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		Remaining recording time indicator
3		Battery indicator
4		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 22-23 cm.

While in **Photo** or **Movie/Voice Recorder** mode, move the **Macro** button on the side of the video camera to activate macro function, and an icon  displays on the LCD screen.

Move the macro button again to return to normal mode.

### 3.1.3 Using the zoom function

The camera is equipped with 4x digital zoom.

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

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

<b>Note:</b> Digital zoom function is disabled when the camera is connected to TV.
--

### 3.1.4 Using the White-light LED

Use the white-light LED to illuminate subjects in dark environments.

Press the left button to toggle the LED light on or off. An icon displays on the screen when activated.

### 3.1.5 Quick access controls

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

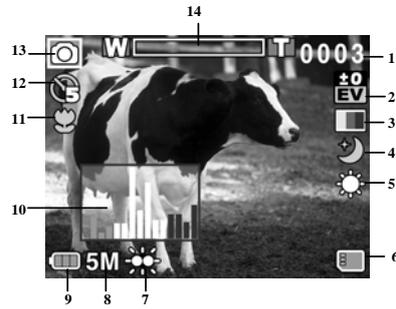
In **Movie/Voice Recorder** and **Photo** modes, press the joystick up/down to adjust the EV compensation setting. Press the right button to choose the movie/image resolution.

## 3.2 Photo mode

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

### 3.2.1 Photo mode icons

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



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

1	<b>0003</b>	Remaining number of photos
2	<b>+0 EV</b>	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 light indicator
8		File size indicator
9		Battery indicator
10		Histogram indicator
11		Macro indicator
12		Self timer indicator
13		Photo mode indicator
14		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 White-light LED

See section 3.1.4 “Using the White-light LED”.

### 3.2.5 Quick access controls

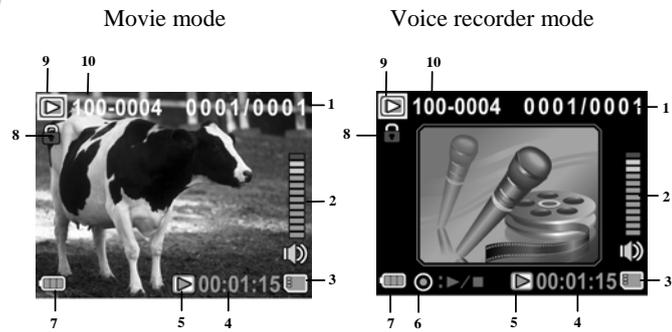
See section 3.1.5 “Quick access controls”.

### 3.3 Movie/voice Playback mode

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

#### 3.3.1 Movie/voice playback mode icons

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



#### Movie mode:

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

1	0001/0001	Displays the number of current movie (voice file) / total number of recorded video clips and voice files
2		Volume level

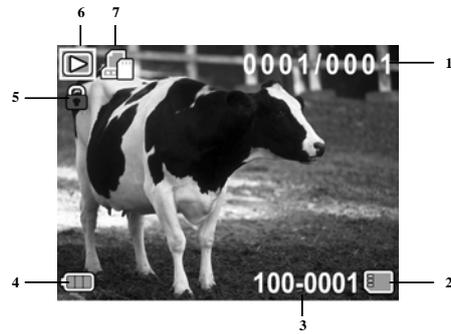
3		Memory status indicator  : SD card indicator  : Internal memory indicator
4	00:00:00	The length of every video clip or voice file
5		Play/ Pause indicator
6		Voice recorder mode indicator
7		Battery status indicator
8		File protect indicator
9		Movie/voice recorder playback mode icon
9	100-0004	Displays the file number of the video clip or voice file

### 3.4 Photo Playback mode

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

#### 3.4.1 Photo Playback mode icons

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



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

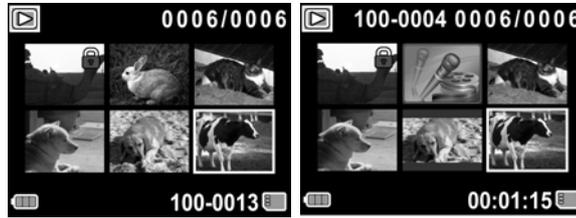
1	0001/0001	Displays the number of current image / the total number of saved images
2	 	Memory status indicator SD card indicator Internal memory indicator
3	100-0001	Displays the file number of the photo
4		Battery status indicator

5		File protect indicator
6		Playback mode icon
7		DPOF (Digital Print Order Format) indicator

### 3.5 Thumbnail mode

When in **Photo Playback** or **Movie Playback** modes, move the scroll wheel down to show images as thumbnails.

1. Turn on the video camera and make sure it is in **Photo Playback** or **Movie/Voice Playback** mode.
2. The most recent image / video clip / voice file displays on the screen. Press the scroll wheel down to view **six** thumbnails images / video clips / voice file on the LCD screen.



3. Use the joystick to highlight an image, a video clip or a voice file.
4. Then press the center joystick button to view the image, or playback the video clip / voice file in full screen mode.
5. Move the **scroll wheel** down to return to thumbnail view.

### 3.6 USB mode

You can use USB mode to connect to a host PC.

When connecting to a host PC, the video camera displays as a removable drive in Windows Explorer.

## 4 Using the menus

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

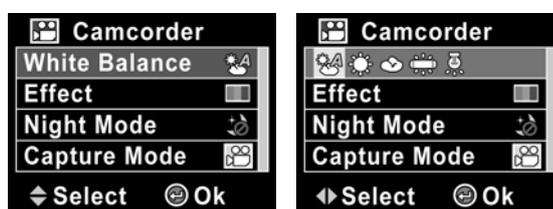
### 4.1 Movie menu

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

#### 4.1.1. White balance

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

1. Turn the video camera on and ensure it is in **Movie** mode.
2. Press the **MENU** button and press the joystick up/down to highlight the **White Balance** option. Press the center joystick button to display the submenu.
3. Press the joystick left/right to select **Auto**, **Sunny**, **Cloudy**, **Tungsten**, or **Fluorescent**. Press the center joystick button to confirm.

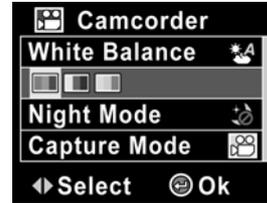
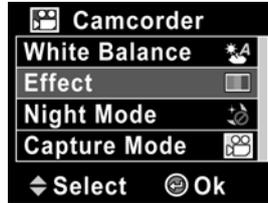


4. Press the **MENU** button again to exit the menu.

### 4.1.2. Color effect

The camera can capture videos in standard color, black and white, and sepia tone.

1. Turn the video camera on and ensure it is in **Movie** mode.
2. Press the **MENU** button and use the joystick up/down to highlight the **Effect** option. Press the center joystick button to display the submenu.
3. Press the joystick left/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.

### 4.1.3. Night mode

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

1. Turn the video camera on and ensure it is in **Movie** mode.
2. Press the **MENU** button and use the joystick up/down to highlight the **Night Mode** option. Press the center joystick button to display the submenu.
3. Press the joystick left/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.

#### 4.1.4. Capture mode

Use this function to select to record sounds or video clips.

1. Turn the video camera on and ensure it is in **Movie** mode.
2. Press the **MENU** button and use the joystick up/down to highlight the **Capture Mode** option. Press the center joystick button to display the submenu.
3. Press the joystick left/right to select **Voice recorder** or **Movie** mode. Press the center joystick button to confirm.



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

## 4.2 Movie playback menu

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

### 4.2.1 Delete all

Use this function to delete all files at a time.

1. Turn the video camera on and ensure it is in **Movie** mode. Press the **Playback** button and then press the **MENU** button to display the **Movie/Voice Playback** menu.
2. Press the joystick up/down to select **Delete All** options. Press the center joystick button to display the submenu.
3. Press the joystick left/right to select the tick icon, 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 video camera on and ensure it is in **Movie** mode. Press the **Playback** button and then press the **MENU** button to display **Movie/Voice Playback** menu.
2. Press the joystick up/down to highlight the **Protect** option and press the center joystick button. Then playback screen appears again. Press the joystick up/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.



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

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

## 4.3 Voice recorder menu

When in **Voice Recorder** mode, press the **MENU** button to show the Voice Recorder option menu.

### 4.3.1 Capture mode

Use this function to select to record sounds or video clips.

1. Turn the video camera on and ensure it is in **Movie** mode.
2. Press the **MENU** button and use the joystick up/down to highlight the **Capture Mode** option. Press the center joystick button to display the submenu.
3. Press the joystick left/right to select **Voice recorder** or **Movie** mode. Press the center joystick button to confirm.



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

## 4.4 Voice playback menu

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

### 4.4.1 Delete All

Use this function to delete all files at a time.

1. Turn the video camera on and ensure it is in **Voice** mode. Press the **Playback** button and then press the **MENU** button to display the **Movie/Voice Playback** menu.
2. Press the joystick up/down to select **Delete All** options. Press the center joystick button to display the submenu.
3. Press the joystick left/right to select the tick icon, 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.

#### 4.4.2 Protect

Use this function to lock files to prevent accidental deletion.

1. Turn the video camera on and ensure it is in **Voice** mode. Press the **Playback** button and then press the **MENU** button to display **Movie/Voice Playback** menu.
2. Press the joystick up/down to highlight the **Protect** option and press the center joystick button. Then playback screen appears again. Press the joystick up/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.



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

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

## 4.5 Photo menu

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

### 4.5.1 White balance

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

1. Turn the video camera on and ensure it is in **Photo** mode.
2. Press the **MENU** button and press the joystick up/down to highlight the **White Balance** option. Press the center joystick button to display the submenu.
3. Press the joystick left/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.

## 4.5.2 Color effect

The camera can capture images in standard color, black and white, and sepia tone.

1. Turn the video camera on and ensure it is in **Photo** mode.
2. Press the **MENU** button and press the joystick up/down to highlight the **Effect** option. Press the center joystick button to display the submenu.
3. Press the joystick left/right to select **Color**, **Black & White**, or **Sepia**. Press the center joystick button to confirm.



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

### 4.5.3 Night mode

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

1. Turn the video camera on and ensure it is in **Movie** mode.
2. Press the **MENU** button and press the joystick up/down to highlight the **Night Mode** option. Press the center joystick button to display the submenu.
3. Press the joystick left/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.

#### 4.5.4 Self-timer

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

1. Turn the video camera on and ensure it is in **Photo** mode.
2. Press the **MENU** button and press the joystick up/down to highlight the **Self-timer** option. Press the center joystick button to display the submenu.
3. Press the joystick left/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.

## 4.6 Photo playback menu

### 4.6.1 Delete All

Use this function to delete files.

1. Turn the video camera on and ensure it is in **Photo** mode. Press the **Playback** button and then press the **MENU** button to display the **Photo Playback** menu.
2. Press the joystick up/down to highlight the **Delete All** option.
3. Press the center joystick button to display the submenu.
4. Press the joystick left/right to select the tick icon and then press the center joystick button to delete.



5. 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.

## 4.6.2 Protect

Use this function to protect files.

1. Turn the video camera on and ensure it is in **Photo** mode. Press the **Playback** button and then press the **MENU** button to display the **Photo Playback** menu.
2. Press the joystick up/down to select the **Protect** option. Then playback screen appears again. Press the joystick up/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.



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

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

### 4.6.3 Autoplay

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

1. Turn the video camera on and ensure it is in **Photo** mode. Press the **Playback** button and then press the **MENU** button to display the **Photo Playback** menu.
2. Press the joystick up/down to highlight the **Autoplay** option and press the center joystick button to confirm. The images will be displayed automatically.



3. Press the **Menu** button to stop the autoplay.

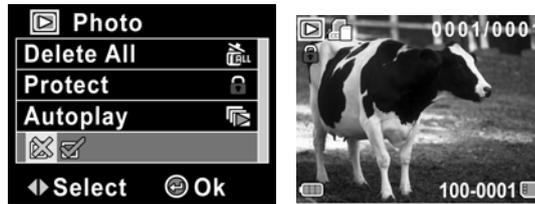
#### 4.6.4 DPOF

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

1. Turn the video camera on and ensure it is in **Photo** mode. Press the **Playback** button and then press the **MENU** button to display the **Photo Playback** menu.
2. Press the joystick up/down to highlight the **DPOF** option. Press the center joystick button to display the submenu.



3. Press the joystick left/right to select ✓ and press the center joystick button. Press the **MENU** button to return to the main menu, 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.

## 4.7 System menu

The system menu is used to configure miscellaneous camera functions.

### 4.7.1 Setting the beep

See section 2.6.3 "Setting the beep".

### 4.7.2 Histogram mode

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

1. Turn on the video camera and press the **MODE** button to display the **SETUP** mode.
2. Press the joystick up/down to highlight the **Histogram** option. Press the center joystick button to display the submenu.
3. Press the joystick left/right to select **Histogram** or **Off** options. Press the center joystick button to confirm.



4. Press the **MENU** button to return to the main menu.

### 4.7.3 Auto power off

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

1. Turn on the video camera and press the **MODE** button to display the **SETUP** mode.
2. Press the joystick up/down to highlight the **Auto Power Off** option. Press the center joystick button to display the submenu.
3. Press the joystick left/right to select **Off**, **1 minute**, or **5 minutes**. Press the center joystick button to confirm.



4. Press the **MENU** button to return to the main menu.

#### 4.7.4 TV standard

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

1. Turn on the video camera and press the **MODE** button to display the **SETUP** mode.
2. Press the joystick up/down to highlight the **TV standard** option. Press the center joystick button to display the submenu.
3. Press the joystick left/right to select **NTSC** or **PAL**, and press the center joystick button to confirm.



4. Press the **MENU** button to return to the main menu.

#### 4.7.5 Format

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

1. Turn on the video camera and press the **MODE** button to display the **SETUP** mode.
2. Press the joystick up/down to highlight the **Format** option. Press the center joystick button to display the submenu.
3. Press the joystick left/right to select the **cross** or **tick** icon, and press the center joystick button to confirm.



4. The current media (memory card or internal memory) is formatted.
5. Press the **MENU** button to return to the main menu.

#### 4.7.6 Default

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

1. Turn on the video camera and press the **MODE** button to display the **SETUP** mode.
2. Press the joystick up/ down to highlight the **Default** option. Press the center joystick button to display the submenu.
3. Press the joystick left/right to select the **cross** or **tick** icon, and press the center joystick button to confirm.



4. Press the **MENU** button to return to the main menu.

#### 4.7.7 Language

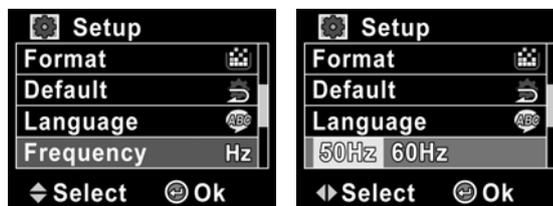
See section 2.6.2 "Setting the language".

#### 4.7.8 Frequency

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

To set the frequency:

1. Turn on the video camera and press the **MODE** button to display the **SETUP** mode.
2. Press the joystick up/down to highlight the **Frequency** option. Press the center joystick button to display the submenu.
3. Press the joystick left/right to select **50 Hz** or **60 Hz**. Press the center joystick button to confirm.



4. Press the **MENU** button to return to the main menu.

#### 4.7.9 Date/time

See section 2.6.1 "Setting the date and time".

## 5 Installing the software

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

### 5.1 NewSoft VideoWorks

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

To install NewSoft VideoWorks:

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 NewSoft VideoWorks can be found in the help files when the application is started.

## 5.2 NewSoft Mr. Photo

NewSoft Mr. Photo is an advanced photo editing software application.

To install NewSoft Mr. Photo:

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 NewSoft 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/MMC card.

To install the Quick Time:

1. Insert the supplied CD into the CD-ROM drive.
2. If the CD-Rom does not 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 32 MB flash memory (Available memory space for image storage is approx. 7MB) External: SD Card, SDHC compatible (Up to SDHC 8GB Class6)
Sensor sensitivity	Auto
Color effects	Color/B&W/Sepia
Lens	Fixed lens Wide: F/3.2, f=7.5mm
Focus range	Normal: 1.5m ~ infinity Macro: 22cm~23cm (Tolerance:1cm)
Still image	Formats: JPEG (EXIF), DPOF Resolution: 3M, 5M, 8M (Firmware interpolation)

## General

Movie clips	Format: H.264 (MOV) Resolution: CIF (30fps), 480P (60fps), 720P (30fps), 1080P (30 fps)
Zoom	Movie: Digital Zoom 4X (1080P, 2X Digital Zoom) Camera: Digital Zoom 4X
Audio Recording	Yes
TFT Monitor	2.5" TFT (640 x 240 pixels)
LED Light	Effect range 0.5 ~ 1.0m Movie: On / Off Camera: On / Off
White balance	Auto/Sunny/Cloudy/Tungsten/ Fluorescent
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

General	
Shutter	Electronic Shutter 2 ~ 1/2000 second
Auto power off	Off, 1 min., 5 min.
Power supply	Li-ion battery NP-60
Dimension	36.3 (W) x 96.6 (H) x 65.6 (D) mm
Weight	Approx. 115±5g (without batteries)

\*Design and specifications are subject to change without prior notice.

## Troubleshooting

Problem	Possible Cause	Solution
Cannot turn on the video camera.	The batteries are not inserted correctly. The battery has no power.	<ul style="list-style-type: none"><li>• Insert the battery correctly. (See 2.2 Inserting the battery.)</li><li>• Replace 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>• Replace the battery.</li></ul>
The captured image is not stored in memory.	Before the image is saved, the power has been cut off.	<ul style="list-style-type: none"><li>• When the battery indicator turns red, replace the battery immediately.</li></ul>

The camera turns off while taking a photo with self timer function.	The camera is running out of battery power.	<ul style="list-style-type: none"> <li>• Replace the battery.</li> </ul>
The image is out of focus.	The subject is beyond focus range.	<ul style="list-style-type: none"> <li>• Please take a picture within the available focus range and choose normal or macro mode. (See 3.2.2 Using the macro function).</li> </ul>
Memory card cannot be used.	<p>The memory card is protected.</p> <p>The memory card contains non-DCF images taken by other cameras.</p>	<ul style="list-style-type: none"> <li>• Unlock the memory card.</li> <li>• Format the memory card. (See 4.7.5 Press the <b>MENU</b> button to return to the main menu.</li> </ul>

		<ul style="list-style-type: none"><li>• FormatFormat.) Before formatting the card, ensure you back up the files.</li></ul>
All buttons are inactive.	Short circuit occurred when connecting the camera with other devices.	<ul style="list-style-type: none"><li>• Remove the battery from the camera and insert again.</li></ul>



Website:

Please visit our website at [www.dygusa.com](http://www.dygusa.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).



DXG USA

