Thank you for purchasing this GE digital video camera. Please read this manual carefully and keep it in a safe place for future reference.

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About this manual
This manual provides you with instructions on how to use your GE digital video camera. Every effort has been made to ensure that the contents of this manual are accurate, however General Imaging Company reserves the right to make changes without notice.

Symbols used in this manual
Throughout this manual, the following symbols are used to help you locate information quickly and easily:

- Indicates important information.
- Indicates precautions to be taken while operating the video camera.
WARNING

For Customers in the U.S.A.

Tested To Comply With FCC Standards

FOR HOME OR OFFICE USE

FCC Statement
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

For Customers in Europe

"CE" mark indicates that this product complies with the European requirements for safety, health, environment and customer protection. "CE" marked video cameras are intended for sales in Europe.

This symbol [crossed-out wheeled bin WEEE Annex IV] indicates separate collection of waste electrical and electronic equipment in the European countries. Please do not throw the equipment into the trash. Please recycle this and other electronics responsibly.
Declaration of Conformity

Model Name: DVZ
Trade Name: GE
Responsible Party: General Imaging Company
Address: 1411 W. 190th Street, Suite 550, Gardena, CA 90248, USA.
Telephone Number: +1-800-730-6597
(Outside U.S. & Canada: +1-310-755-6857)
SAFETY PRECAUTIONS

Video Camera Notes:

• Do not store or use the video camera in the following types of locations:
  1. In direct sunlight for a long period of time or high temperature (beyond 40°C/104°F);
  2. In environments with high magnetic fields;
• If the video camera will not be used for a long period of time, we suggest you download photos and remove the memory card to prevent losing photos and videos.
• If the video camera is taken from a relatively cool environment (lower than 40°C/104°F), and placed in a warmer or more humid atmosphere, condensation may occur within the device. We suggest you wait for the unit to warm to room temperature before turning on the video camera.
• General Imaging is not responsible for any loss of data.

Memory Card Notes:

• When using a new memory card, or a memory card has been initialized by a computer, you might have to format the card if the camera does not recognize it. Please back up any data on the card as the formatting will erase all data on the card.
• Do not directly edit the data on the memory card. Copy the data to your computer before you edit them.
• Do not change or delete the folder names or file names on the memory card from your computer, to avoid causing unrecognizable files in the original folder or file in your video camera.
• Only remove and insert a memory card when the camera is off, as data loss and/or corruption may occur.
• When inserting a memory card, make sure the notch of the card matches the markings on the top of the card slot.
LCD Screen Notes:

• Due to current LCD manufacturing technology, you may see a few light or dark pixels on your LCD. This is normal.

• These light or dark pixels will not affect the quality of the photo or video images you capture.

• If the LCD screen is damaged, take particular care with the liquid crystal in the screen. If any of the following situations arise, take the recommended immediate action indicated below:

  1. If liquid crystal comes in contact with your skin, wash thoroughly with soap and running water.

  2. If liquid crystal gets into your eye, flush the eye with clean water for at least 15 minutes and then seek immediate medical assistance.

  3. If liquid crystal is swallowed, flush your mouth thoroughly with water and induce vomiting. Seek medical assistance immediately.

Please read the following important information carefully before using the product:

• Do not disassemble or attempt to service the video camera yourself.

• Improper handling may damage the product and will void the warranty.

• Turn the video camera off before inserting or removing the memory card.

• Avoid touching the video camera lens.

• Do not expose the video camera lens to direct sunlight for extended periods of time.

• Do not use abrasive cleansers, alcohol-based, or solvent based cleaners to clean the video camera body. To clean, wipe the video camera lens with a professional lens cleaning cloth and special cleaning agent made for cameras and electronics.
Functions and Notes

Waterproof/Dust Proof/Shockproof/Freezeproof
- The video camera meets JIS/IEC waterproof grade 8 (IPX8) and JIS/IEC dustproof grade 6 (IPX6).
  Height for shockproof rating is 1.5m.
  Suitable temperature range for freezeproof capability is -10°C~40°C
- The accessories included with the this video camera are not for use in wet conditions.

Precautions Before Using
- Please make sure that the Micro SD cover and HDMI/USB interface cover (hereinafter referred to as “interface cover”) are locked securely.
- The rubber mating surfaces on the covers and doors should be clean and free of foreign matter to insure a tight seal.
- Units with damaged rubber waterproofing should not be used in wet conditions.
- Do not use this video camera in a geothermal spring.
- When using this video camera in water, a wrist strap is highly recommended.

Precautions When Using
- Do not use the video camera below 5 meters (approximately 15 feet) underwater.
- Do not use the video camera under water for more than 2 hours.
- Avoid dropping the video camera suddenly into water. The Micro SD card cover or interface cover may be open or not closed securely. Always check your video camera carefully before taking it near water.
- Do not open the Micro SD cover or interface cover underwater.
- If the video camera cannot be turned on due to extenuating circumstances, please contact our customer service center for help.
Maintenance Precautions After Using

- Wipe the video camera with a clean, dry, lint-free cloth.
- When the Micro SD cover or interface cover is opened, after underwater use, there may be water drops on the inside of the Micro SD cover or interface cover.
- After using the video camera in the water or near sand, mud or other foreign materials, please rinse it with clean water (don’t open the Micro SD card cover or interface cover when cleaning). After cleaning, wipe out the video camera with a clean, dry, lint-free cloth.
- To help ensure the camera's waterproof ability, wipe off any dust, sand or other foreign material from the rubber gaskets and corresponding interface areas.
- Don’t use any chemical solvents or agents to clean the camera. Do not use silicone conditioners on the rubber.

Damaged rubber, waterproof gaskets with cracks or scratches will allow water or other elements to penetrate the camera. Contact customer service for assistance with replacement of parts or the video camera itself.
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setting Language and Date/Time</td>
<td>17</td>
</tr>
<tr>
<td>Setting your Language and Date/Time</td>
<td>17</td>
</tr>
<tr>
<td>Resetting your Language</td>
<td>18</td>
</tr>
<tr>
<td>Resetting Date/Time</td>
<td>19</td>
</tr>
<tr>
<td><strong>BASIC OPERATION</strong></td>
<td>20</td>
</tr>
<tr>
<td>Movie Recording</td>
<td>20</td>
</tr>
<tr>
<td>Zoom Function</td>
<td>20</td>
</tr>
<tr>
<td>Image Pixel</td>
<td>21</td>
</tr>
<tr>
<td>Image Color</td>
<td>21</td>
</tr>
<tr>
<td>LCD Screen Display</td>
<td>22</td>
</tr>
<tr>
<td>Shooting Screen</td>
<td>22</td>
</tr>
<tr>
<td><strong>DISPLAY</strong></td>
<td>23</td>
</tr>
<tr>
<td><strong>VIDEO RECORDING</strong></td>
<td>24</td>
</tr>
<tr>
<td>Video Recording</td>
<td>25</td>
</tr>
<tr>
<td>Playback</td>
<td>26</td>
</tr>
<tr>
<td>Video Panorama Mode</td>
<td>26</td>
</tr>
<tr>
<td><strong>PLAYBACK</strong></td>
<td>28</td>
</tr>
<tr>
<td>Preview Photos and Videos</td>
<td>28</td>
</tr>
<tr>
<td>Video</td>
<td>28</td>
</tr>
<tr>
<td>Zoom in Photos</td>
<td>30</td>
</tr>
<tr>
<td>Screen Display in the Playback Mode</td>
<td>31</td>
</tr>
<tr>
<td>Delete Photos and Videos</td>
<td>32</td>
</tr>
</tbody>
</table>
MENU SETUP ........................................................................................................33
   Function Menu ................................................................................................33
      Exposure Metering ....................................................................................33
      Focus Setting ............................................................................................34
      Macro Mode ...............................................................................................34
      ISO ............................................................................................................35
   White Balance Setting ..............................................................................35
   Slideshow ..................................................................................................36
   HDR (High Dynamic Range) Setting .........................................................37
   Resize .........................................................................................................37
   Color Effect ..............................................................................................38
   Photo Setup ...............................................................................................39
      Size ...........................................................................................................40
      Quality .....................................................................................................40
      VIS ...........................................................................................................41
      Continuous AF ........................................................................................41
      Display .....................................................................................................42
      Continuous Shot ....................................................................................42
      Self-Timer ..............................................................................................43
      Date Imprint ...........................................................................................43
      Quick Review .........................................................................................44
   General Setup ............................................................................................45
Beep Setup .................................................................46
Power Saver .............................................................46
Time Setting .............................................................47
World Time .............................................................47
Language setting .....................................................48
Format Memory .......................................................48
Reset ........................................................................49
Copy to Card ..........................................................49
Firmware Version ...................................................50
Playback Setup ........................................................51
Protect .....................................................................52
Delete ......................................................................53

CONNECTION ................................................................54
Connecting to TV Output with HDMI .......................54
Connecting to a Computer via USB .........................56

APPENDICES ..................................................................57
Specifications: DVZ ...................................................57
Error Messages ........................................................60
Troubleshooting .......................................................62
Your package should contain the video camera model you purchased along with the items below. If anything is missing or appears to be damaged, please contact our customer service department immediately.
**Part Names**

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LCD Screen</td>
<td>10</td>
<td>Menu Button</td>
</tr>
<tr>
<td>2</td>
<td>Shooting Button</td>
<td>11</td>
<td>USB/HDMI Card Slot Switch</td>
</tr>
<tr>
<td>3</td>
<td>Playback Button</td>
<td>12</td>
<td>Status Indicator</td>
</tr>
<tr>
<td>4</td>
<td>Arrow Button (Up) / Zoom In Button</td>
<td>13</td>
<td>Lens</td>
</tr>
<tr>
<td>5</td>
<td>Arrow Button (Left) / Image Color</td>
<td>14</td>
<td>Microphone</td>
</tr>
<tr>
<td>6</td>
<td>Arrow Button (Down) / Zoom Out Button</td>
<td>15</td>
<td>Power Switch</td>
</tr>
<tr>
<td>7</td>
<td>Arrow Button (Right) / Image Pixel</td>
<td>16</td>
<td>SD Card Slot Switch</td>
</tr>
<tr>
<td>8</td>
<td>OK Button / Record Button</td>
<td>17</td>
<td>Tripod Socket</td>
</tr>
<tr>
<td>9</td>
<td>Panorama Button / Delete Button</td>
<td>18</td>
<td>Speaker</td>
</tr>
</tbody>
</table>

![Diagram of camera parts with numbers and labels]
Installing Battery and Memory Card

1. Open SD Card Cover according to ①;
2. Install battery according to ② and ③.
3. Install Micro SD card according to ④.
4. Close SD Card Cover according to ⑤, ⑥.

After opening the buckle on the Micro SD Card Cover according to the arrow direction shown in the figure ①, Micro SD Card Cover will pop open. To remove Micro SD card, gently press it down to pop it out.

Optional Micro SD/Micro SDHC cards are not included in the accessories and must be purchased separately.

When selecting Full HD size (1920X1080, 1440X1080) to record video, please use a High Speed Card (above Class 6).

When taking video, if “Memory card accessing is slow” on the LCD screen, please select High Speed Card or format this card, then take video.
Charging Battery

This video camera can be charged by the following two methods:
1. Use the USB cable to connect the video camera with the adapter see figure ①;
2. Use the USB cable to connect the video camera to your computer see figure ②;

Charging Indicator:
- Red: Charging
- Green: Charging complete

To ensure maximum battery life, charge the battery for at a minimum of 4 hours the first time.

- Charge battery only when the video camera is turned off.
- Only charge the battery indoors between 0°C and 40°C.
- If the battery is stored for a long period of time, use the supplied power charger to recharge the battery prior to use.
Press the Power button to turn the video camera on/off.
Setting Language and Date/Time

Set your Language, Date/Time after the first power-on.

1. When the video camera is turned on by pressing the power button for the first time, the video camera will enter language setting screen.
2. Press ▲▼ to select language.
3. After pressing ◯ button to select desired language, the video camera will enter date/time setting screen.
4. Press ▲▼ to select and choose field: month, day, year, hour and minute.
5. Press ◄► to adjust value in the selected field.
6. Press ◯ button to determine time setting, the video camera will enter shooting screen.

In this user manual, the direction button, Up/Down/Right/Left, are respectively indicated with ▲▼ ◄►
Resetting your Language

After you set the language for the first time, follow the instructions below to reset your language.

1. Press menu button to enter Func menu.
2. Press ◄ ► to select 📜 menu.
3. Press OK button to enter Setting interface.
4. Press ◄ ► to select 📜 menu; Press ▲▼ to select 「Language」 option.
5. Press OK button to enter Setting interface.
6. Press ▲▼ to select language.
7. Press OK button to confirm, press menu button to return to shooting screen.
Resetting Date/Time

After you set the Date/Time for the first time, follow the instructions below to reset date and time.

1. Press menu button to enter Func menu.
2. Press ▲ ▼ to select menu.
3. Press button to enter Setting interface.
4. Press ▲ ▼ to select menu; Press ▲ ▼ to select 「Date/Time」 option.
5. Press button to enter Setting interface.
6. Press ▲ ▼ button to select function option, Press ▲ ▼ button to select setting value; or press menu button to return to shooting screen.
7. Press button to save the setting, press menu button to return to shooting screen.

Date format is: M-D-Y;
Time format is: 24 hour format

When selecting the option, the screen will display the icons with the following Two colors:

Black: Cannot be selected  
Blue: Current selection
BASIC OPERATION

Movie Recording

This function can take movies.

1. Press Power button to turn the video camera on.
2. Press button to begin taking video.
3. Press button to end the video shooting.

Zoom Function

Press button to zoom in or zoom out:

- ▲ : Zoom in
- ▼ : Zoom out

When zoom ratio is changing, zoom will display as blue icon.
Image Pixel

Set the image resolution desired during video recording.

Press ► to enter Image Pixel Menu, the following options are available:

- 1920×1080 30fps
- 1440×1080 30fps
- 1280×720 60fps
- 1280×720 30fps
- 640×480 30fps
- 320×240 30fps
- 640×480 120fps

Image Color

Image color setting for video recording.

Press ◄ to enter Image Color Menu, the following options are available:

- Normal
- Vivid
- Sepia
- Black and White
- Vignetting
- Salon
- Dreamy
**LCD Screen Display**

**Shooting Screen:**
1. Battery Status Indicator
2. Memory Card
3. Self-Timer
4. Continuous Shot
5. Zoom Display
6. Focusing
7. Metering
8. Macro Mode
9. White Balance
10. Color
11. ISO
12. Shooting Date
13. Histogram
14. Shooting Time
15. Remaining Number of Pictures
16. Image Resolution
17. Remaining Video Time
18. Video Resolution
DISPLAY

In the shooting mode, use DISP in the menu to temporarily remove some screen icons. The two options below will appear to select one.

DISP On

DISP Off
Video Recording:

1. Zoom Level
2. Duration of recording/video shooting time.
3. Display for shooting still pictures while recording
4. The number of photos that have been taken
5. The number of available photos remaining
6. Battery status indicator

During the process of recording video, press button to take photos.

During use of this function, the number of shots is limited by the file size of the single frames.
Playback:
1. Animation/Film length
2. File Protection
3. Ranking order/number of the current photos
4. SD Memory Card/Built-in Memory Video file reminder display
5. Battery Status Indicator
6. HDR (High Dynamic Range)
7. Shooting Date and Time
Video Panorama Mode

You can use Video Panorama Mode to take consecutive photos. The video camera will automatically combine them to a super wide angle panorama photo.

Follow the steps below:

1. Press button to enter video panorama mode.

2. Press direction button to select shooting direction (the default direction is Right), it will automatically enter shooting mode after 2 seconds. Pressing button can enter the shooting mode immediately.

3. Press button to take a single photo, then the video panorama mode progress box will show on the camera screen.

4. Press the setting direction to move or rotate the video camera. When moving or rotating range meets the setting value, the progress box with an arrow will turn green and blink. When the progress box turns completely green, it indicates the video panorama shooting is complete.

5. The video camera will automatically stitch the photos into a panoramic photo, then preview for 2 seconds after finishing stitching.
Only horizontal mode can be used for video panorama shooting.

During video panorama shooting, press 🔄 button to pause shooting and save the current picture. Press 📸 button to cancel shooting without saving the previous picture.

During video panorama shooting, when moving direction or angle of the video camera deviates from the setting value, a warning message 「Improper alignment. Please try again. 」 will appear on the LCD, and the video camera will save the current photo and return to the shooting mode.
You can view photos and videos either vertically or horizontally when in playback mode.

1. Press \(\text{button}\).
2. Vertical: Press \(\text{button}\) to select the previous/next photo/video; Horizontal: Press \(\text{button}\) to select the previous/next photo/video.
3. Play the selected video, press \(\text{button}\) to enter the playback mode.

**Video:**

In the playback mode, each button description is shown as follows:

1. Fast Rewind
2. Increase Volume
3. Fast Forward
4. Decrease Volume
5. Pause

When playing videos, the operation guide will appear on the screen. Press \(\text{button}\) to play or pause.

While the video is playing, press \(\text{button}\) to fast forward the video, or press \(\text{button}\) to fast rewind it.

In the Pause Screen, press \(\text{button}\) to switch to the previous frame photo; press \(\text{button}\) to switch to the next frame photo.
When playing in Video Mode, press button to return to the Playback screen.

In the Pause screen, press button to return to Playback screen.

In Playback mode, only the first frame is displayed on the video.

Fast Forward display: 2x / 4x / 8x / 16x
Fast Rewind display: 2x / 4x / 8x / 16x.

When the video camera is turned off, press button for 2 seconds to turn it on, and enter the Playback mode.
**Zoom In Photos**

In the playback mode, using ⏯️ can magnify the photo up to 4X.

1. Press ⏯️ button to return to the Playback Mode.

2. Vertical: Press ↘️ button to select a photo; Horizontal: Press ← → button to select a photo.

3. Press ▲ button to magnify photos up to 4x. See note below.

4. Press ▲ ▼ ← → button to move the position of display area.

5. Press 🎥 button again to return to the Playback screen (the original size).

Zoom function can only be used on still images. It is not possible on video playback.
Screen Display in the Playback Mode

Pressing ▶️ button displays the following modes (the picture is displayed in horizontal position):

**Playback Screen:**
When shooting, press ◀️ button to return to the Playback Mode; press 📸 button to return to the Shooting Screen.

**Thumbnail:**
When in the playback mode, press ◀️ button, 4x4 thumbnails will display on the screen, press ▲▼◄► buttons to select the photo or video to be viewed.

**Date Folder:**
When in Thumbnail mode, press ◀️ button, the thumbnails will be sorted by shooting date; or press ◀️ button to return to the Playback screen.

**Date Folder Thumbnail:**
When the Date Folder is displayed on the screen, press ◀️ button to enter the Date Folder Thumbnails (only photos in the Date Folder are displayed); or press ◀️ again to return to the Playback Screen.
Delete Photos and Videos

In the Playback Mode (Playback Screen / Thumbnail / Date Folder / Date Folder Thumbnail) Mode, pressing 📄 button will delete the current selected photo/video.

1. Press ⏯️ button to return to the Playback Mode (Playback Screen / Thumbnail / Date Folder / Date Folder Thumbnail).

2. Press ▲▼ ◀▶ button to select the photo/video to be deleted.

3. Press 📄 button to display the information to be deleted on the screen.

4. Press ▲▼ button to select Delete one or Exit:
   「Delete one」: Deletes the current selected photo/video;
   「Exit」: Returns to the previous screen.

5. Press ⌚️ button to save setting and return to Playback Mode.

⚠️ Erased photos/videos cannot be recovered.
MENU SETUP

FUNCTION Menu

Mode: 

1. Press menu button to enter FUNCTION Menu.
2. Press ➤ to select menu.
3. Press ▲▼ to select an option in the menu.
4. Press ◄ button to confirm, press menu button to return to shooting screen.

Exposure Metering

This specifies the area of the picture that the camera uses to correctly expose the picture.

3 options are available:

- Expo Metering: Spot - this selects one point in the frame, usually at the center of the frame, to determine correct exposure.
- Expo Metering: Center - this uses the center of the frame to determine correct exposure.
- Expo Metering: AiAE - this uses multiple areas of the frame to "intelligently" determine correct exposure.
Focus Setting

Focusing options can be selected in this mode.

2 options are available:

- Single-AF
- Multi-AF

Macro Mode

The Macro Mode Setting is ideal for shooting small objects or closeup photos. This mode allows you to focus on subjects very close to the camera.

2 options are available:

- Macro Off
- Macro On
ISO

ISO selections allow you to set the sensitivity of the video camera sensor, to make the video camera's shutter speed in dark environments. A higher ISO value is required in darker places, while a lower ISO value is recommended in bright conditions.

7 options are available:

- ISO AUTO
- ISO 100
- ISO 200
- ISO 400
- ISO 800
- ISO 1600
- ISO 3200

White Balance Setting

The White Balance Setting allows you to adjust the color temperature for different lighting sources to ensure the most accurate color reproduction.

6 options are available:

- AWB
- Daylight
- Cloudy
- Fluorescent
- Incandescent
- Underwater
Mode: 

1. Press (play) button to enter the Playback Mode.
2. Press menu button to enter Function Menu.
3. Press \( \) to select Function Menu.
4. Press (confirm) button to confirm, press menu button to return to playback screen.

---

**Slideshow**

This setting allows you to view all the stored pictures as a slideshow.

Press (confirm) button again to stop playing.
HDR (High Dynamic Range) Setting

Set HDR when you take pictures.

2 options are available:

- Cancel
- HDR

Resize

This setting allows you to resize a picture to a particular resolution and saves it as a new picture.

3 options are available:

- Cancel
- Resize to 1024x768
- Resize to 640x480
Color Effect

This setting allows you to change the picture color effect. The file is saved as a new photo and stored in memory together with the original photo.

8 options are available:

- Cancel
- Vivid
- Sepia
- Black and White
- Vignetting
- Salon
- Grainy
- Dreamy
Photo Setup

Mode: 📷 🎥 📻

1. Press menu button to enter Function Menu.
2. Press ⬅️ ➤️ to select 📷 menu.
3. Press 📻 button to enter Setting interface.
4. Press ⬅️ ➤️ to select 📷 menu.
5. Press ↑️ ↓️ to select an option in the menu.
6. Press 📻 button to enter the setting interface of selected option.
7. Press ↑️ ↓️ button to select function option, press 📻 button to confirm and return to the menu; press ⬅️ button to return to the menu or press menu button to return to the shooting screen.
**Size**

The Size Setting refers to the image resolution in pixels. A higher image resolution allows you to print that image in larger sizes without degrading the image quality.

8 options are available:

- 14M: 4320×3240
- 12M-3:2: 4320×2880(3:2)
- 10M-16:9: 4320×2432(16:9)
- 8M: 3264×2448
- 5M: 2592×1944
- 3M: 2048×1536
- 2M-16:9: 1920×1080(16:9)
- VGA: 640×480

**Quality**

The Image Quality Menu adjusts the compression ratio of the images. Higher quality settings yield better photos, but will take up more memory space.

3 options are available:

- Best
- Fine
- Normal
VIS

When using VIS (Video Image Stabilization) function to record video, it can improve blurry images caused by hand-held camera shaking.

2 options are available:

- On
- Off

Continuous AF

Set Continuous Auto Focus to on when taking photos.

2 options are available:

- On
- Off
DISPLAY

Using the DISP function will set the LCD screen display.

2 options are available:

- On
- Off

Continuous Shot

Continuously hold down [ ] button to enter the continuous shooting mode; to stop, release [ ] button.

2 options are available:

- Off
- On
Self-Timer

Using this function can take photos in timed intervals. The video camera can be set to take photos via the self-timer function. Select the desired time from the options below.

4 options are available:

- Off
- 2sec
- 10sec
- Smile

Date Imprint

Saves the date and time data with the picture.

3 options are available:

- Off
- Date
- Date/Time
Quick Review

This option allows quick review of the photos immediately after they are taken. Each photo is displayed on the LCD screen based on the selected time.

4 options are available:

- Off
- 1sec
- 2sec
- 3sec
General Setup

Mode: 📸 📽️ 📈

1. Press menu button to enter Function Menu.
2. Press◀ ▶ to select 📸 menu.
3. Press 📽️ button to enter Setting Interface.
4. Press◀ ▶ to select 📈 menu.
5. Press ▲▼ to select an option in the menu.
6. Press 📽️ button to enter the setting interface of selected option.
7. Press ▲▼ button to select function option, press 📽️ button to confirm and return to the menu; press ◀ button to return to the menu or press menu button to return to shooting screen.
Beep Setup

Use Beep Setup to adjust the volume of beep when buttons are pressed.

2 options are available:

- On
- Off

Power Saver

Use the Power Saver function to prolong battery life between charges.

3 options are available:

- Auto
- Normal
- Best
Time Setting

The video camera time can be set with this option.

Refer to page 19 for time setting

World Time

When overseas, adjust the World Time setting to the time zone of the city nearest you.

2 options are available:

- Location
- Travel Target

back
**Language Setting**

Select this option to select different language display for the video camera.

Refer to page 18 for language setting

**Format Memory**

Use Format Memory function will delete all data in the storage card and internal memory.

2 options are available:

- Cancel
- Confirm

When there is no memory storage card in the camera, Format Memory will format the video camera's internal memory. If there is a memory card in the camera, Format Memory will only format the memory storage card.
Reset

Use the Reset Function to set the video camera to factory default settings.

2 options are available:
- Cancel
- Confirm

Copy to Card

Use Copy to Card Function to copy the files stored in the internal memory card to storage card.

2 options are available:
- Cancel
- Confirm
Firmware Version

Use this option to view the current Firmware Version of the video camera.

2 options are available:

- Exit
- Update (can update the version with the new version on Micro SD card)

To check if there is a newer firmware version available, please go to: www.ge.com/digitalcameras. Firmware versions are available under the "Support" section of our site.

The firmware update cannot be completed if the battery is not sufficiently charged.
Playback Setup

Mode: 

1. Press button to enter the Playback Mode.
2. Press menu button to enter Function Menu.
3. Press to select menu.
4. Press button to enter Setting Interface.
5. Press to select an option in the menu.

2 options are available:

- Protect
- Delete
Protect

To prevent any pictures or videos from being accidentally erased, use this setting to lock one or all of the files.

1. Press ▲▼ to select an option, press ◄ button enter Setting Interface.

4 options are available:

- One: Lock the selected photo or video if they are unprotected; unlock the selected photo or video if they are protected.

- All: Lock all photos or videos.

- Date Folder: Lock photos or movies in the date folder.

- Reset: Cancel all locked photos or videos.

2. Select Sub-Menu, press ◄ button to confirm; and jump to the next image, press menu button to return to playback screen.
Delete

You can delete one or all photo/video files.

1. Press ▲▼ to select an option, press ◼ button to enter Setting Interface.

   3 options are available:
   
   • One : Delete one photo or video.
   
   • Date Folder : Delete all photos in the Date Folder.
   
   • All : Delete all photos or videos.

2. Select Sub-Menu, press ◼ button to confirm; and jump to the next image, press menu button to return to playback screen.
Photos and videos can be viewed on an HDTV using the HDMI interface. By connecting to your TV with an HDMI cable (sold separately) the camera will automatically enter the Playback Screen. If the connection is unsuccessful an error message will display.

If 1080i is supported, the images will display on the TV when connection is successful. If 1080i is not supported, the highest resolution supported by the TV will be selected automatically. The video camera will turn off automatically after pulling HDMI cable out.

In the HDMI playback mode, Func menu is shown as following:
HDMI only can display playback function, all playback functions showing on the DV also can show on the HDMI.
Enter the Playback Screen:
Press ◀▶ button to select the previous/next photo/video:

- ☑️: Photo
- 🎥: Video

Press menu mode button, enter Function Menu, then press ◀▶ select slide to play ➤, Press 🎥 button to start/stop slide playback.

When the video camera is connected with the HDTV successfully, the playback screen will display on the TV.

When video (/movie) files appear on the Playback Screen, pressing 🎥 button will start/stop playing the video.

When playing video, the functions of ▲▼ ◀▶ and 🎥 are the same as playing back video in the video camera (refer to P28).

When playing video, press 🎥 button to pause first, then press ▼ button to return to the Single Playback Screen.
Connecting to a Computer with USB

Copy photos and videos in the video camera to a personal computer by following these steps:

1. Open USB/HDMI port cover.
2. Use USB cable to connect the video camera and computer.

This video camera supports (Windows 2000, Windows XP, Windows Vista, Windows 7, Mac).
## APPENDICES

### Specifications: DVZ

Design and specifications are subject to change without notice.

<table>
<thead>
<tr>
<th>Active Image Sensor Pixels</th>
<th>14.41 CMOS Megapixels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Image Sensor Pixels</td>
<td>15.40 Megapixels [1/2.3”CMOS]</td>
</tr>
</tbody>
</table>

### Lens

<table>
<thead>
<tr>
<th>Focal Length</th>
<th>6.0mm (Wide) — 18.0mm (Tele)</th>
</tr>
</thead>
<tbody>
<tr>
<td>[35mm film equivalent]</td>
<td>[35mm (Wide) — 105mm (Tele)]</td>
</tr>
<tr>
<td>F number</td>
<td>F2.8 (Wide) — F4.6 (Tele)</td>
</tr>
<tr>
<td>Lens Construction</td>
<td>9 groups 10 elements</td>
</tr>
<tr>
<td>Optical Zoom</td>
<td>3x</td>
</tr>
<tr>
<td>Focusing Range</td>
<td>Normal: (Wide) 23.6in. ~ ∞ / 60cm ~ ∞, (Tele) 39.4in. ~ ∞ / 100cm ~ ∞, Macro: 4.0in. ~ ∞ / 10cm ~ ∞ (Wide Only)</td>
</tr>
</tbody>
</table>

### Anti-Handshake

<table>
<thead>
<tr>
<th>Video Image Stabilization</th>
</tr>
</thead>
</table>

### Digital Zoom

<table>
<thead>
<tr>
<th>6x Digital Zoom (Combined Zoom: 18x)</th>
</tr>
</thead>
</table>

### Number of Recording Pixels

#### Still Image

| 14MP: 4320×3240, (3:2)12MP: 4320×2880, (16:9)10MP: 4320×2432, 8MP: 3264×2448, 5MP: 2592×1944, 3MP: 2048×1536, (16:9)2MP: 1920×1080, 0.3MP: 640×480 |

#### Movie

| 1920×1080(30fps),1440×1080(30fps),1280×720(60fps),1280×720(30fps), 640×480(30fps), 320×240(30fps) |
| High-Speed Movie: 640×480(120fps) |

#### Still Image in Video

| The resolution of still photo captured while video recording is same as video resolution |

---
<table>
<thead>
<tr>
<th><strong>Image Compression</strong></th>
<th>Best, Fine, Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>File Format</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Still Image</strong></td>
<td>Exif 2.2 (JPEG)</td>
</tr>
<tr>
<td><strong>Movie</strong></td>
<td>Movie Format: MOV (H.264), Audio: Linear PCM [Stereo]</td>
</tr>
<tr>
<td><strong>Shooting Modes</strong></td>
<td>Auto</td>
</tr>
<tr>
<td><strong>Detection Features</strong></td>
<td>Face, Smile, Blink</td>
</tr>
<tr>
<td><strong>HDR</strong></td>
<td>Yes (Post-Processing)</td>
</tr>
<tr>
<td><strong>Panorama</strong></td>
<td>0°~360°</td>
</tr>
<tr>
<td><strong>Waterproof</strong></td>
<td>Up to 5m</td>
</tr>
<tr>
<td><strong>Shockproof</strong></td>
<td>Up to 1.5m</td>
</tr>
<tr>
<td><strong>Dustproof</strong></td>
<td>Equivalent to JIS/IEC (IP6X)</td>
</tr>
<tr>
<td><strong>Freeze-proofing</strong></td>
<td>-10°C</td>
</tr>
<tr>
<td><strong>LCD Display</strong></td>
<td>2.5inch (230k Pixels)</td>
</tr>
<tr>
<td><strong>ISO Sensitivity</strong></td>
<td>Auto, ISO100/200/400/800/1600/3200</td>
</tr>
<tr>
<td><strong>AF Method</strong></td>
<td>Single AF, Multi-AF (TTL 9-point), Face-Detection</td>
</tr>
<tr>
<td><strong>Exposure Metering Method</strong></td>
<td>Artificial Intelligence AE (AiAE), Center-Weighted Average, Spot (Fixed to Center of Frame), Face AE</td>
</tr>
<tr>
<td><strong>Exposure Control Method</strong></td>
<td>Program AE (AE-Lock Available)</td>
</tr>
<tr>
<td><strong>Shutter Speed</strong></td>
<td>1/2000 ~ 1/4 Seconds</td>
</tr>
<tr>
<td><strong>Continuous Shooting</strong></td>
<td>Yes</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Playback Modes</th>
<th>Single Photo, Index, Slide Show, Movie, Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Zoom (Approx. 4x), Histogram Display</td>
</tr>
<tr>
<td></td>
<td>FF &amp; REW 2x/4x/8x/16x &amp; Each Frame</td>
</tr>
<tr>
<td>White Balance Control</td>
<td>Auto (AWB), Daylight, Cloudy, Fluorescent,</td>
</tr>
<tr>
<td></td>
<td>Incandescent, Underwater</td>
</tr>
<tr>
<td>Recording Media</td>
<td>Internal Memory: Approx. 10MB</td>
</tr>
<tr>
<td></td>
<td>Micro SD / Micro SDHC Card (Up to 32GB</td>
</tr>
<tr>
<td></td>
<td>Support) [Non-support MMC Card]</td>
</tr>
<tr>
<td>Other Features</td>
<td>Multi-Language Support (25 Languages)</td>
</tr>
<tr>
<td>Jacks</td>
<td>AV-OUT/USB 2.0 (Micro 5 pin USB), HDMI (Type</td>
</tr>
<tr>
<td></td>
<td>D)</td>
</tr>
<tr>
<td>Power</td>
<td>Rechargeable Li-ion Battery GB-55, 3.7V</td>
</tr>
<tr>
<td></td>
<td>900mAh, In-Camera Charging</td>
</tr>
<tr>
<td>Shooting Capability (Battery</td>
<td></td>
</tr>
<tr>
<td>Performance)</td>
<td>Approx. 260 Shots (Based on CIPA Standards)</td>
</tr>
<tr>
<td></td>
<td>Approx. 80 min for Video (@1080p/30fps)</td>
</tr>
<tr>
<td>Operation Environment</td>
<td>Temperature: 14 ~ 104°F / -10 ~ 40°C,</td>
</tr>
<tr>
<td></td>
<td>Humidity: 0 ~ 90%</td>
</tr>
<tr>
<td>Dimensions (W×H×D)</td>
<td>Approx. 2.3×4.4×0.8in. / 56.7×110.3×21.0mm</td>
</tr>
<tr>
<td></td>
<td>(Based on CIPA Standards)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 4.6oz. / 130g (Body Only)</td>
</tr>
</tbody>
</table>
## Error Messages

<table>
<thead>
<tr>
<th>Messages</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warning! Battery exhausted</td>
<td>• Battery is depleted, connect the camera to a power source and wait until fully charged to resume using</td>
</tr>
<tr>
<td>No Picture</td>
<td>• There are no pictures or videos on the memory card or in the camera's internal memory</td>
</tr>
<tr>
<td>Exceeded maximum folder number</td>
<td>• This indicates that the SD card exceeded the maximum number of folders (999). This could cause a long read time during the camera's power up. Copy the data to your PC, format the memory card.</td>
</tr>
<tr>
<td>Pull USB Out</td>
<td>• Remove the USB cable or connector after ensuring you have safely disconnected the hardware on your system</td>
</tr>
<tr>
<td>Connection Failed</td>
<td>• Camera is not properly connected to TV or computer. USB mode may be incorrect or USB port may be damaged. Please try again</td>
</tr>
<tr>
<td>File can't be recognized</td>
<td>• Camera cannot recognize such file format</td>
</tr>
<tr>
<td>Warning! Don’t power off when upgrading!</td>
<td>• Please don’t power the video camera off when upgrading software</td>
</tr>
<tr>
<td>Software update failed</td>
<td>• Update for software that controls camera was not successfully installed</td>
</tr>
<tr>
<td></td>
<td>• Software version is incorrect. Please download latest version</td>
</tr>
<tr>
<td>Messages</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Internal memory card full</td>
<td>• The internal memory is full and cannot store any additional files. Copy files to computer and delete files from camera or insert a new memory card</td>
</tr>
<tr>
<td>Memory card full</td>
<td>• Memory card is full and cannot store any new files. Copy files to computer and delete files from card or insert a new memory card</td>
</tr>
<tr>
<td>Write protection of memory card</td>
<td>• Memory card lock is switched to protection mode. Take out the memory card and unlock it</td>
</tr>
<tr>
<td>File cannot be edited</td>
<td>• The file has already been edited and cannot be edited again</td>
</tr>
<tr>
<td>Memory card error</td>
<td>• The memory card is not recognized or failed. Replace with a new memory card or format this card again</td>
</tr>
<tr>
<td>The memory card is not formatted</td>
<td>• Format the memory card as described on page 48</td>
</tr>
<tr>
<td>Battery exhausted, can’t update FW</td>
<td>• The firmware cannot be updated without sufficient power. Charge the battery fully before attempting to update firmware</td>
</tr>
<tr>
<td>Problem</td>
<td>Possible causes</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>------------------------------------------------------</td>
</tr>
<tr>
<td>Video camera will not turn on</td>
<td>• Battery low</td>
</tr>
<tr>
<td>Video camera turns off suddenly while in operation</td>
<td>• Battery is dead</td>
</tr>
<tr>
<td>Photo is blurred</td>
<td>• Camera was not held steady when pictures were taken</td>
</tr>
<tr>
<td>Cannot take photos</td>
<td>• Internal memory or memory card is full</td>
</tr>
<tr>
<td></td>
<td>• The memory card is not formatted</td>
</tr>
<tr>
<td></td>
<td>• Still in Playback mode</td>
</tr>
<tr>
<td>Cannot record video</td>
<td>• No memory card inserted or memory card is full</td>
</tr>
<tr>
<td></td>
<td>• Still in Playback mode</td>
</tr>
</tbody>
</table>