CONTENTS

CONTENTS ................................................................. 2
PRECAUTIONS ............................................................... 6

Preface ........................................................................................................................... 6
Copyright ......................................................................................................................... 6
Trademarks ...................................................................................................................... 6
About this Manual ......................................................................................................... 6
Symbols used in this Manual .......................................................................................... 6

WARNING ................................................................. 7
SAFETY PRECAUTIONS ......................................................... 9

Video camera notes ....................................................................................................... 9
Memory card notes .......................................................................................................... 9
LCD screen notes .......................................................................................................... 10

Please read the following important information carefully before using this product ......................................................... 10

WATER & DUST PROOF PRECAUTIONS ....................................................... 11

Water & Dust Proof ....................................................................................................... 11
Precautions Before Using .............................................................................................. 11
Precautions When Using ............................................................................................... 11

Maintenance Precautions After Using .......................................................................... 12

GETTING STARTED .................................................................................. 13

Accessories ..................................................................................................................... 13
Each Component Name ...............................................................................................14
Charge and Insert SD Card ......................................................................................15
  Charging .............................................................................................................15
  Insert SD/SDHC Card ......................................................................................16
Turning On/Off ........................................................................................................17
Setting Language and Date/Time ...........................................................................18
  Set Display Language ......................................................................................19
  Set Date and Time ............................................................................................20
BASIC OPERATION .................................................................................................21
  Recording Movies ..............................................................................................21
    Zoom Function ...............................................................................................21
    White Balance ...............................................................................................22
    Shooting .........................................................................................................22
  LCD Screen Display in Different Modes ..........................................................23
    Shooting Screen .............................................................................................23
    Video Recording .............................................................................................24
  Playback ............................................................................................................25
    DISP ..............................................................................................................26
PLAYBACK ............................................................................................................27
  Preview Photos and Videos ...............................................................................27
    Video ............................................................................................................27
Zoom in Photos .................................................................................................. 29
Screen Display in the Playback Mode ............................................................ 30
Delete Photos and Videos ................................................................................ 31

MENU SETUP ................................................................................................. 32

Photo Setup ........................................................................................................ 32
Quality ............................................................................................................... 33
Exposure Metering .......................................................................................... 33
HDR .................................................................................................................... 34
Continuous Shot ............................................................................................... 34
Date Imprint ...................................................................................................... 35

Movie Setup ....................................................................................................... 36
Movie Resolution .............................................................................................. 37
Exposure Metering Modes ............................................................................... 37
HDR .................................................................................................................... 38

General Setup .................................................................................................. 39
Beep Setup ......................................................................................................... 40
LCD Brightness ................................................................................................. 40
World Time ........................................................................................................ 41
Power Saver ....................................................................................................... 41
firmware Version .............................................................................................. 42
Format Memory ................................................................................................. 42
Reset .................................................................................................................. 43
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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Trademarks
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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 (Asia) 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

Do not expose the video camera battery pack or other accessories to rain or humidity to reduce the risk of fire hazard or electric shock.

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 electronically recycle responsibly.
Declaration of Conformity

Model Name: DVX
Trade Name: GE
Responsible Party: General Imaging Co.
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:
- In direct sunlight for a long period of time or high temperatures (above 40ºC)
- In environments with high magnetic fields
- In very humid or dusty places
Doing so may shorten the life of the digital video camera or allow foreign materials to enter the camera, which could damage the internal components and effect operation.
If the video camera will not be used for a long period of time, we suggest you download photos/videos and remove the SD memory card.
If the video camera is taken from a relatively cool environment (lower than 40ºC/104F) and placed in a warmer or more humid atmosphere, condensation may occur within the camera. We suggest you wait for the camera to come to room temperature before turning on or using the video camera.
General Imaging is not responsible for any loss of data, camera malfunction or non-operation.

Memory Card Notes:
When using a new SD memory card, or a SD memory card has been initialized by a PC, you might have to format the card if the camera is not reading it. However, please back up any data on the card prior to inserting it into the DVX as the formatting will delete all data on the card.
To edit image data, copy the image data to a PC first.
Do not change or delete the folder names or file names in the SD memory card from your PC, as this may make it unusable and/or unreadable.
Only remove and insert a SD memory card when the camera is off as data loss and/or corruption may occur.
Do not turn the camera off when the firmware is being updated or data, picture loss and/or corruption may occur.
The SD memory card can only be inserted one way into the DVX video camera.
LCD Screen Notes:

Due to current LCD manufacturing technology, you may see a few light or dark pixels on your LCD screen. This is normal. These light or dark pixels will not affect the quality of the photo or video image.

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

- If liquid from the LCD screen comes in contact with your skin, wash thoroughly with soap and running water.
- If liquid from the LCD screen gets into your eye, flush the affected eye with clean water for at least 15 minutes and then seek immediate medical assistance.
- If liquid from the LCD screen is swallowed, flush your mouth thoroughly with water and try to induce vomiting. Then seek immediate medical assistance.

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

- Do not disassemble or attempt to service the video camera yourself.
- Do not drop or knock the video camera. Improper handling may damage the product and void the warranty.
- Turn off the video camera before inserting or removing the SD memory card.
- Do not touch the camera lens.
- Do not expose the 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 soft, professional lens cleaning cloth and special cleaning agent for cameras and electronics.
Water & Dust Proof Precautions

Water & Dust Proof

- The video camera meets JIS/IEC waterproof grade 8 (IPX8) and JIS/IEC dustproof grade 6 (IPX6).
- The accessories included with the video camera are not for use in wet conditions.

Precautions Before Using

- Please make sure that the 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 waterproof rubber seals should not be used in wet or damp conditions.
- Don’t use the video camera in a geothermal spring.
- When using the video camera in water, a wrist strap is recommended.

Precautions When Using

- Don’t use the video camera below 5 meters (approximately 15 feet) underwater.
- Don’t use the video camera under water for more than 2 hours.
- The camera should not be dropped into water. Avoid jumping or diving into water with the camera as the SD cover or interface cover may open on impact.
- Do not open the SD cover or interface cover underwater.
Maintenance Precautions After Using

- Wipe the video camera with a clean, dry, lint free cloth.
- When the SD cover or interface cover is opened, there may be water drops on the inside of the SD cover or interface cover and on the contact surface of video camera body; make sure to dry these areas completely.
- After using the video camera in the water or near sand, mud or other foreign materials, wash it thoroughly with clean water (don’t open the SD card cover or interface cover while when cleaning). After cleaning, wipe the video camera with a clean, dry, lint free cloth.
- To help maintain the camera's waterproof ability, wipe off any dust, sand or other foreign materials from the rubber gaskets and corresponding slot areas.
- Do not use any chemical agents to clean the camera. Do not use silicone grease on the rubber.

Damaged rubber gaskets with cracks or scratches will allow water to penetrate the camera and the camera will no longer be waterproof.
GETTING STARTED

Accessories

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.

Warranty Card  Quick Guide  Wrist Strap

USB Cable  Power Adapter
Component Names

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LCD Screen</td>
</tr>
<tr>
<td>2</td>
<td>Shooting Button</td>
</tr>
<tr>
<td>3</td>
<td>Playback Button</td>
</tr>
<tr>
<td>4</td>
<td>Up Button / Zoom In Button</td>
</tr>
<tr>
<td>5</td>
<td>Left Button / Display</td>
</tr>
<tr>
<td>6</td>
<td>Down Button / Zoom Out Button</td>
</tr>
<tr>
<td>7</td>
<td>Right Button / White Balance</td>
</tr>
<tr>
<td>8</td>
<td>OK Button / Record Button</td>
</tr>
<tr>
<td>9</td>
<td>Wrist Strap Hole</td>
</tr>
<tr>
<td>10</td>
<td>Delete Button</td>
</tr>
<tr>
<td>11</td>
<td>Menu Button</td>
</tr>
<tr>
<td>12</td>
<td>SD Card Slot</td>
</tr>
<tr>
<td>13</td>
<td>SD Card Slot Switch</td>
</tr>
<tr>
<td>14</td>
<td>Power Button</td>
</tr>
<tr>
<td>15</td>
<td>Status Indicator</td>
</tr>
<tr>
<td>16</td>
<td>Lens</td>
</tr>
<tr>
<td>17</td>
<td>Microphone</td>
</tr>
<tr>
<td>18</td>
<td>USB/HDMI Card Slot Switch</td>
</tr>
<tr>
<td>19</td>
<td>USB lock</td>
</tr>
<tr>
<td>20</td>
<td>HDMI Interface</td>
</tr>
<tr>
<td>21</td>
<td>USB Jack</td>
</tr>
<tr>
<td>22</td>
<td>Tripod Socket</td>
</tr>
<tr>
<td>23</td>
<td>Speaker</td>
</tr>
</tbody>
</table>
Charge and Insert SD Card

Charge:
This video camera has an internal battery. You can use the following three methods to charge the video camera:

1. Use the provided USB cable to connect the video camera with the adapter (see figure 1)
2. Use the provided USB cable to connect the video camera to a PC (see figure 2)
3. Connect the camera's flip-out USB connector to a PC directly (see figure 3)

The DVX should charge for approximately 4 hours for the first time, and the status indicator will turn green when the battery is fully charged.

If you use method 1 to charge, the charging time is approximately 3 hours. If you use method 2 or 3 to charge, the charging time is approximately 5 hours.
Insert SD/SDHC Card

1. Open SD Card Cover (see diagram 1 and 2)
2. Insert SD Card (see diagram 3)
3. Close SD Card Cover (see diagram 4 and 5)

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

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

When selecting Full HD size (1920X1080, 1440X1080) to record video, use High Speed Card (above Class 4).

When taking video if a "Memory card accessing is slow" message appears on the LCD screen, change the SD card to a High Speed Card (above class 4) or reformat the current card and re-try taking video.
Turning On/Off

Press the Power button to turn the video camera on/off.

When the power is off, press the Power button to turn the video camera on. When the power supply is on, press the Power button to turn the video camera off.

If there is no response on the video camera, press and hold the power button and the button for at least two seconds to reset and power off.
Language, Date / Time setting menu will appear when turning the video camera on for the first time.

Use the following procedures to set the camera to your preferences:

1. Press the **Power** button to turn the video camera on
2. Press the **▲▼◄►** button to select the settings
3. Press the **●** button to confirm the settings
Set Display Language

1. Press the \texttt{menu} button to enter the setting menu.

2. Press $\texttt{\leftarrow \rightarrow}$ to select \texttt{\leftarrow} menu; Press $\texttt{\uparrow \downarrow}$ to select the \texttt{Language} option.

3. Press the \texttt{\leftarrow} button to enter the setting interface.

4. Press $\texttt{\uparrow \downarrow}$ to select language of choice. Then Press the \texttt{\leftarrow} button to return to the menu; or Press the \texttt{menu} button to return to the shooting screen.
Set Date and Time

1. Press the menu button.

2. Press ▼ to select menu; Press ▼ to select the Date / Time option.

3. Press the button to enter the Set Date/Time program.

4. Press ▲ ▼ to select function option or, Press the button to return to the menu; Press ▼ to select the value; Or Press the menu button to return to the shooting screen.

5. Press the button to store the value, Press the menu button to return to the 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:

- White: not selected
- Orange: Current selection
BASIC OPERATION

Movie Recording

This function allows you to record movies.

1. Press the **Power** button to turn the video camera on.

2. Press the ⚪ button to begin taking video.

3. Press the ⚪ button to end the video recording.

Zoom Function

Press the ▲▼ button to zoom in or zoom out:

- ▲ : Digital Zoom In
- ▼ : Digital Zoom Out

When the zoom function is engaged, the zoom icon displayed on the screen will change from white to orange.
White Balance

With White Balance, users can adjust the color temperature under different light sources to adjust correct color.

Press the ▶ button to scroll through the White Balance options. Available options include:

- White Balance: Auto
- White Balance: Daylight
- White Balance: Cloudy
- White Balance: Fluorescent
- White Balance: Incandescent
- White Balance: Waterproof

Shooting While Recording

You can take photos while simultaneously recording video.

During the process of recording a video, simply press the 📸 button to take photos.
LCD Screen Display in Different Modes

Shooting Screen:
1. Battery status indicator
2. Memory card
3. Remaining number of pictures
4. Image resolution
5. Image Quality
6. White Balance
7. Continuous Shot
8. WT Ratio
9. HDR
10. Histogram
11. Video Quality
12. Remaining video time
13. Face Detection
14. Shooting date and time
Video Recording:

1. Battery status indicator
2. Memory card
3. During recording
4. The number of available photos
5. The number of photos have been taken
6. Image Quality
7. White Balance
8. Continuous Shot
9. WT Ratio
10. HDR
11. Zoom out
12. Zoom in
13. Video Recording Indicator
14. Video shooting time (during shooting)
15. Shooting date and time

Using this facility, the number of shots is limited by the file size of the single frames.
Playback:
1. Battery status indicator
2. Previous photo/video
3. Selected film/image
4. Video file reminder display
5. Next photo/video
6. Shooting date and time
7. Ranking order/number of the current photos
8. Film length
Display

In shooting mode press the <DISP button, you can switch the screen between the following two screens:

Display One

Display Two
PLAYBACK

Preview Photos and Videos

You can view photos and videos either vertically or horizontally when in playback mode.

1. Press the button.

2. Vertical: Press button to select the previous /next photo /video; Horizontal: Press button to select the previous /next photo /video.

3. Play the selected video, press the button to enter the playback mode.

Video:

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

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

When playing videos, the operation guides will appear on the screen. Press the button to play or pause. When viewing in horizontal mode, the operation guides and time access will not automatically display. Press to display them.

While the video is playing, press the button to fast forward the video, or press to fast reverse it.

In the Pause screen, press the button to switch to the previous frame photo; press the button to switch to the next frame photo.
When playing in the video mode, press the button to return to the Playback screen.

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

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

Fast Forward Display: 2x / 4x / 8x / 16x
Fast Backward Display: 2x / 4x / 8x / 16x

When the video camera is turned off, press the button for 2 sec to turn it on, and enter Playback mode.
Using Zoom in Playback Mode

In the Playback mode, images can be magnified up to 4x by using the function button.

1. Press the return button to return to the Playback mode.

2. Vertical: Press the button to select a photo; Horizontal: Press the button to select a photo.

3. Press the button to magnify photos up to 4x. (See note below)

4. Press the button to move the position of display area.

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

- This zoom feature can only be used on still images. It is not available in video playback.

- The maximum zoom capacity is 4x in this mode.
Screen Display in the Playback Mode

Press the button to display the following modes (the picture is displayed in the horizontal position):

Playback Screen
When shooting, press button to return to Playback mode; press button to return to the Shooting screen.

Thumbnail
When in playback mode, press the button, 3x3 thumbnails will display on screen. Press the buttons to select the photo or video to be viewed.

Date Folder
When in Thumbnail Mode, press the button, and the thumbnails will be sorted by shooting date; or press the button to return to the Playback screen.

Date Folder Thumbnail
With the Date Folder displayed on screen, press the button to enter the Date Folder Thumbnails (only photos in the Date Folder are displayed) or press again to return to the Playback screen.

When 3X3 Thumbnails and Date Folder Thumbnails are displayed on the screen, press the button to enter the date folder screen.
Delete Photos and Videos

In the Playback mode (Playback screen / Thumbnail / Date Folder / Date Folder Thumbnail), press the button to delete the currently selected photo/video.

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

2. Press the button to select the photo/video to be deleted.

3. Press the button to display the photo/video to be deleted on the screen.

4. Press the button to select Yes or Cancel
   Yes: Deletes the current photo/video
   Cancel: Returns to the previous screen.

5. Press the button to save the setting and return to the Playback mode.

Erased photos/videos are permanently deleted and cannot be recovered.
MENU SETUP

Photo Setup

Mode: 

Press the menu button to enter the Setup Menu.
1. Select menu.

2. Press the ▲▼ button to select the option in the Photo Setup menu or press menu button to return to the Shooting screen.

3. Press the button to enter the options menu once you have selected an option within Photo Setup.

4. Press the ▲▼ to select option.

5. Press the button to select and return to the Photo Setup menu; or press button to return to the menu; or press menu button to return to the Shooting screen.
Quality

The image quality menu adjusts the compression ratio of the images. Higher quality settings give better photos, but will take up more memory space.

There are three options for Image Quality:

- Quality: Best
- Quality: Fine
- Quality: Normal

Exposure Metering

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

There are three options for Exposure Metering:

- Exposure Metering: Spot - this uses one point in the frame, usually the center of the frame, to determine correct exposure.
- Exposure Metering: Center - this uses the center of the frame to determine correct exposure.
- Exposure Metering: AiAE - this uses multiple areas of the frame to "intelligently" determine correct exposure.
HDR

HDR (High Dynamic Range) automatically takes multiple exposures of the same picture and overlaps them to lighten dark areas and darken light areas, thereby correcting exposing the picture.

There are two options for HDR:

- HDR: ON
- HDR: OFF

Continuous Shot

Continuously hold down ◼ button to perform continuous shooting; to stop, please release ◼ button.

The Continuous Shot has two options:

- Continuous Shot: ON
- Continuous Shot: OFF
Date Imprint

Saves the date and time data with the picture.

There are three options for Imprint Date:

- Imprint Date: Date / Time
- Imprint Date: Date
- Imprint Date: OFF
Movie Setup

Mode: 

Press the menu button to enter the Setup Menu.

1. Press the ▼ ▶ button to select the menu.

2. Press the ▲▼ button to select the option in the Movie Setup menu or press the menu button to return to the Shooting screen.

3. Press the ◐ button to enter the setting interface of the corresponding options in the Movie Setup Menu.

4. Press the ▲▼ to select the value.

5. Press the ◐ button to save the value and return to the Movie Setup Menu; or press the ◐ button to return to the menu; or press the menu button to return to the Shooting screen.

Movies cannot be recorded without a SD/SDHC card in the camera.
Movie Resolution

Size setup refers to the Movie Resolution and aspect ratio expressed in pixels.

The Movie Resolution setting has five options:

- 1920X1080p: 30FPS
- 1280x720p: 60FPS
- 1280x720p: 30FPS
- 1440x1080p: 30FPS
- 640x480p: 30FPS

HD recording time is limited to less than 29 minutes.

Exposure Metering Modes

Exposure Metering is used to setup a target area for the exposure to be obtained.

There are three options for Exposure Metering:

- Exposure Metering: Spot
- Exposure Metering: Center
- Exposure Metering: AiAE
HDR

HDR (High Dynamic Range) takes several exposes and overlaps them. This lightens darker areas of the photo and darkens lighter areas, thereby correctly exposing the picture.

There are two options for HDR:

- HDR: ON
- HDR: OFF
General Setup

Mode: 📸 ⚫️ 🎥

Press menu button to enter Setup menu.

1. Press ◄► button to select 📷 menu.

2. Press ▲▼ button to select the options in the General Setup menu.

3. Press ⚫️ button to enter the menu of corresponding options in the General Setup menu.

4. Press ▲▼ to select function option or select , press ⚫️ button to save selection and return to the menu; press ◄► to select the menu option; or press menu button to return to the shooting screen.

5. Press ⚫️ button to save the menu option, press menu button to return to the Shooting screen.
Beep Setup

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

There are two options in Beep Setup:

- ON
- OFF

LCD Brightness

Use LCD Brightness to adjust the brightness of your screen.

In the LCD Brightness screen, press button to select auto or different brightness ratio, press button to save the menu option. Press menu button to return to the Shooting screen.
World Time

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

There are two options in World Time:

- Location
- Travel Target

Power Saver

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

The Power Saver function has two options:

- ON
- OFF

When power saving function is turned on, the screen will automatically turn off after one minute and the video camera will automatically turn off after three minutes.
Firmware Version

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

There are two options in Firmware Version:

- FW Update (can update the version with the new version on SD card)
- Cancel

To check if there is a newer Firmware version available, please go to: www.ge.com/digitalcameras. Firmware versions are available under 'Support'.

The firmware update can't be completed if the battery is not sufficiently charged.

Format Memory

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

There are two options in Format Memory:

- Yes
- No

When there is no memory storage card in the camera, Format Memory will format the 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 values.

The **Reset** has two options:

- Yes
- No

Copy to Card

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

The **Copy to Storage Card** has two options:

- Yes
- No
Playback Setup

Mode: 

In Playback mode, Press menu button to enter Setup menu.
1. Select menu.
   
2. Press button to select the options in the Setup menu.

The Playback Setup has three options:

- Delete
- Slide Show
- Red-eye Reduction

In the Playback mode, press menu button, Note this function will only display in the horizontal mode.
Delete

Using this function will delete the photos/videos stored in the internal memory or storage card.

The Delete has three options:

- One
- All
- Date Folder

Delete One:

1. Press ▲▼ button to select Delete option, press ◎ button to enter the setup interface.

2. Select One options, press ◎ button to save the setting value and enter function selection interface.

3. Press ▲▼ button to select Yes or Cancel to return to the menu.

4. Press ◎ button to save the menu option and return to the Playback Setup menu, press menu button to return to the Shooting screen.
Delete all:

1. Press ▲▼ button to select Delete option, press ◼ button to enter the setup interface.
2. Select all options, press ◼ button to save the setting value and enter function selection interface.
3. Press ▲▼ button to select Yes or Cancel to return to the menu.
4. Press ◼ button to save the menu option and return to the Playback Setup menu, press menu button to return to the Shooting screen.

Delete Date Folder:

1. Press ▲▼ button to select Delete option, press ◼ button to enter the setup interface.
2. Select Date Folder option, press ◼ button to enter Date Folder selection interface.
3. Press ▲▼ button to select the Date Folder to be deleted, press ◼ / ✓ button to display the deleted information on the screen.
4. Press ▲▼ button to select Yes or Cancel to return to the menu. Press ◼ button to save the menu option and return to the Playback Setup menu, press menu button to return to the Shooting screen.
Slide Show

This function displays images in sequence at regular intervals (from the SD memory card or from the internal memory).

1. Press the Menu button and select the Slideshow option. Press the button to enter the function selection interface.

2. Press button to select Start or Cancel to return the menu.

3. Press the button to start playing.

Only Horizontal mode is used for slide show playback.

4. Press the button again to stop playing.

5. Press the button to select:

   - Continue to Start
   - Return to the Playback screen

The default slideshow interval time is preset to 3 seconds.
Red Eye Removal

Use the Red Eye Removal function to remove red-eye effect in your photos.

1. Press the ▲▼ button and select the Red Eye Removal option, press the ○ button to enter the setup interface.

2. Press the ▲▼ button and select Reduction or Cancel to return to the menu; press the ◀▶ button to select a photo.

3. After pressing the ○ button, the original file will be overwritten.

Red eye reduction does not work for video files.

If the camera's software does not detect red eye effect in the image, "red eye is not detected" will appear on the screen.
Connecting to TV Output with HDMI

Photos and videos can be viewed on a TV using the HDMI interface. By connecting your DVX 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 disconnecting the HDMI cable.

Enter the Playback screen:
Press the ◀▶ button to select the previous/next photo/video:
- ◀ : Photo
- ▶ : Video
Press the ▼ button to start/stop play.

When the video camera is connected to the TV successfully, the playback screen will display on the TV.
When the video file appears on the Playback screen, press the button to start/stop video play.

- When playing video, the functions of ▲▼◄► and  are the same as playing video in the video camera (refer to P27).

- When playing video, press the  button to pause first, then press the  button to return to the Single Playback screen.
Connecting to a PC via USB

To copy photos and videos in the video camera to a PC take the following steps.

1. Open the USB/HDMI port cover.

2. Press the yellow tab to release the pop-up USB interface connector.

3. Use the USB cable to connect the video camera to a PC (1) or connect the USB connector to a PC directly (2).

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

### Specifications: DVX

Design and specifications are subject to change without notice.

<table>
<thead>
<tr>
<th><strong>Product Category</strong></th>
<th>Digital Camcorder</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Effective Image Sensor Pixels</strong></td>
<td>5.03 Megapixel (2592x1944)</td>
</tr>
<tr>
<td><strong>Image Sensor</strong></td>
<td>5.08 Megapixels [1/2.5” (CMOS)]</td>
</tr>
</tbody>
</table>

### Lens
- **Focal Length** = 5.5 mm
- [35mm film equivalent] = 33mm
- **F number** = 2.8
- **Lens Component** = 4P
- **Focusing Range** = 1.5m ~ ∞

### Anti-Handshake
- Digital Image Stabilization

### Digital Zoom
- 4x Digital Zoom

### Number of Recording Pixels
- **Movie**
  - 1920×1080 pixels: 30fps, 1280×720 pixels: 60fps, 1280×720 pixels: 30fps, 1440×1080 pixels: 30fps, 640×480 pixels: 30fps
- **Still Image**
  - 5MP: 2592x1944 (4:3), 3MP: 2560x1440 (16:9)
- **Still Image in video**
  - The resolution of still photo captured while video recording is same as video resolution

### Image Compression
- Best, Fine, Normal

### File Format
- **Movie**
  - MPEG-4 AVC/H.264 (MOV), Audio: AAC
- **Still Image**
  - Exif 2.2 (JPEG)
<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shooting Mode</strong></td>
<td>Auto</td>
</tr>
<tr>
<td><strong>Detection Features</strong></td>
<td>Face Detection</td>
</tr>
<tr>
<td><strong>Red-Eye Removal</strong></td>
<td>Yes</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>LCD Display</strong></td>
<td>2.5 inch (230,400 pixels)</td>
</tr>
<tr>
<td></td>
<td>Auto Adjust Brightness LCD</td>
</tr>
<tr>
<td><strong>ISO Sensitivity</strong></td>
<td>Auto (100~800)</td>
</tr>
<tr>
<td><strong>Exposure Metering Method</strong></td>
<td>Artificial Intelligence AE [Ai AE(Face detection AE)], Center-weighted Average, Spot (Fixed to center of frame)</td>
</tr>
<tr>
<td><strong>Exposure Control Method</strong></td>
<td>Program AE</td>
</tr>
<tr>
<td><strong>AE range</strong></td>
<td>LV5 ~ LV16</td>
</tr>
<tr>
<td><strong>Playback Modes</strong></td>
<td>Movie, Single Photo, Index, Date Photo, Slide Show</td>
</tr>
<tr>
<td></td>
<td>Zoom (Approx. 4x), Audio, Histogram Display</td>
</tr>
<tr>
<td></td>
<td>FF &amp; REW 2x/4x/8x/16x &amp; each frame</td>
</tr>
<tr>
<td>Feature</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td>White Balance Control</td>
<td>Auto (AWB), Daylight, Cloudy, Fluorescent, Incandescent, Waterproof</td>
</tr>
<tr>
<td>Continuous Shooting</td>
<td>Approx. 7.3 fps (Large / Fine Mode)</td>
</tr>
<tr>
<td>Recording Media</td>
<td>Internal Memory: 27MB</td>
</tr>
<tr>
<td></td>
<td>SD Card / SDHC (Up to 32 GB support)</td>
</tr>
<tr>
<td>Other Features</td>
<td>Multi-language Support (26 Languages)</td>
</tr>
<tr>
<td>Jacks</td>
<td>Internal USB2.0, HDMI Jack</td>
</tr>
<tr>
<td>Power</td>
<td>Internal Rechargeable Lithium-ion Battery GB-50A 880 mAh</td>
</tr>
<tr>
<td>Approx. battery life</td>
<td>Still: Approx. 260 shots (based on CIPA Standards)</td>
</tr>
<tr>
<td></td>
<td>Video: Approx. 70 min (@1080p/30fps)</td>
</tr>
<tr>
<td>Operation Environment</td>
<td>Temperature: 32 ~ 104 F / 0 ~ 40°C, Humidity: 0 ~ 90%</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>2.2×4.1×0.8in. / 55.0×105.0×20.1mm</td>
</tr>
<tr>
<td>Mass</td>
<td>Approx. 5.1oz./145g (Body only)</td>
</tr>
<tr>
<td>Supplied Accessories</td>
<td>AC adapter, USB extension cable</td>
</tr>
<tr>
<td></td>
<td>Wrist Strap</td>
</tr>
</tbody>
</table>
## Error Messages

<table>
<thead>
<tr>
<th>Messages</th>
<th>Explanation</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 in the memory card or in the internal memory</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 connecting 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 can't 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>Explanation</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 new files. Copy files to PC and delete 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 PC and delete 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 can’t be edited</td>
<td>• The file has already been edited and can’t 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 42</td>
</tr>
<tr>
<td>Battery exhausted, can’t update FW</td>
<td>• The firmware cannot be updated without enough power. Charge the battery fully before attempting to update FW</td>
</tr>
</tbody>
</table>
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible causes</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video camera won’t turn on</td>
<td>• Battery low</td>
<td>• Charge battery</td>
</tr>
<tr>
<td>Video camera turns off suddenly while in operation</td>
<td>• Battery is discharged</td>
<td>• Charge battery</td>
</tr>
<tr>
<td>Photo is blurred</td>
<td>• Camera is not steady when pictures are taken</td>
<td>• Suggest using a tripod</td>
</tr>
<tr>
<td>Can’t take photos</td>
<td>• Internal memory or memory card is full</td>
<td>• Insert a new memory card, or copy files to PC and delete from memory card</td>
</tr>
<tr>
<td></td>
<td>• The memory card is not formatted</td>
<td>• Format the memory card</td>
</tr>
<tr>
<td></td>
<td>• Still in Playback mode</td>
<td>• Return to the shooting mode</td>
</tr>
<tr>
<td>Can’t record video</td>
<td>• No memory card or memory card is full</td>
<td>• Insert a new memory card, or copy files to PC and delete from memory card</td>
</tr>
<tr>
<td></td>
<td>• Still in Playback mode</td>
<td>• Return to the shooting mode</td>
</tr>
</tbody>
</table>