1 Overall Introduction

1.1 System Requirements
This Digital Video Camera requires a unit of computer with the following specifications:
- Windows® Vista / XP operating system or Mac OS 10.3 ~ 10.4
- A CPU of at least the equivalent of Intel® Pentium 4 2.8GHz
- At least 512 MB of RAM
- Standard USB 1.1 connection port or higher
- At least 64MB of display card

**Note:** USB 1.1 allows you to transmit files to the host, but using USB 2.0 connection port could increase the transmission speed far faster.

1.2 Accessories
This package should contain the following items. In case there is any missing or damaged item, please contact your dealer immediately.

1.3 External View

Front View
- Flash Light
- Self-timer Indicator
- Lens
- Microphone

Right View
- Tripod socket
- Battery/Memory card compartment

Top View
- Speaker
- Shutter Button
- Zoom Button

Bottom View
- Macro Button
- Hand Strap
- LED Indicator
- Mode Button
- Recording Button
- SET (Menu) Button
- USB/HD/TV/Audio Output
2 Getting Started

2.1 Inserting SD Card(s)

1. Open LCD panel and open the battery cover.
2. Insert an SD card and make sure facing the touching face downward.

Note:
Do not remove or insert SD cards when the power of the Digital Video Camera is on to avoid damaging files.

2.2 Battery Status Indicator:

<table>
<thead>
<tr>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🍃</td>
<td>Batteries full</td>
</tr>
<tr>
<td>🍃</td>
<td>Batteries half full</td>
</tr>
<tr>
<td>🍃</td>
<td>Battery empty</td>
</tr>
<tr>
<td>🍃</td>
<td>Charging battery (A new battery should be charged at least 2 hours.)</td>
</tr>
<tr>
<td>🍃</td>
<td>The device power is supplied by DC input. (No batteries inside.)</td>
</tr>
</tbody>
</table>
2.3 Charging the Battery
You can use the charger attached to charge the lithium battery.

2.4 Insert batteries according to the illustration.
2.5 The gestures of using the touch screen

2.5.1 Single touch

Single touch for the below touchable hotkeys:

1. Resolution change (HD, WVGA, WEB or 12M, 8M, 5M, 3M)

2.5.2 Slide

Slide right or left to view the previous file or the next file under the Playback Mode.

2.5.3 Rotate

Under Playback Mode, you can rotate the image by 90°/step as shown below.
## 2.6 Buttons & Functions

<table>
<thead>
<tr>
<th>Description</th>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Button</td>
<td><img src="image1" alt="Power Button" /></td>
<td>Press the button to turn ON/OFF the Digital Video Camera.</td>
</tr>
<tr>
<td>Menu Button</td>
<td><img src="image2" alt="Menu Button" /></td>
<td>Press the button to display the main OSD menu.</td>
</tr>
<tr>
<td>MODE Button</td>
<td><img src="image3" alt="MODE Button" /></td>
<td>There are three operating modes for the Digital Video Camera: DV Mode, DSC Mode, and Voice Recording Mode. Press the Mode button to change to different modes.</td>
</tr>
<tr>
<td>4-Way Direction Button</td>
<td><img src="image4" alt="4-Way Direction Button" /></td>
<td>Press the 4-Way Direction Button UP to turn on/off the flash light: off, auto, fill-in; press DOWN to delete the file when it’s in Playback mode.</td>
</tr>
<tr>
<td>Zoom button</td>
<td><img src="image5" alt="Zoom button" /></td>
<td>This Digital Video Camera is 3X Digital zoom( For 720p &amp; below)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Press the Zoom button Right (T) to pull in the distance of the subject, or press the button Left (W) to move away the distance from the object</td>
</tr>
<tr>
<td>Shutter button</td>
<td><img src="image6" alt="Shutter button" /></td>
<td>Press the button to take images.</td>
</tr>
<tr>
<td>Recording button</td>
<td><img src="image7" alt="Recording button" /></td>
<td>Press the button to record movie clip and activate voice recording</td>
</tr>
<tr>
<td>Macro button</td>
<td><img src="image8" alt="Macro button" /></td>
<td>Macro function allows you to shoot image of an object at very close distance. In the Macro Mode, you can pull in the focusing distance to 20 cm. (Normal focus range: 1.2m ~ infinity)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The icon 🌸 will be displayed on the LCD screen when the Macro mode is selected.</td>
</tr>
<tr>
<td>Playback Button</td>
<td><img src="image9" alt="Playback Button" /></td>
<td>Press the Playback button to enter Playback mode and playback the last file.</td>
</tr>
</tbody>
</table>
2.7 About LED Indicators

Below table describes the meaning of the camera LED indicators:

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Color</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>Green</td>
<td>Turning power on.</td>
</tr>
<tr>
<td></td>
<td>Red blinking</td>
<td>Flash is charging.</td>
</tr>
<tr>
<td>Recording</td>
<td>Red blinking</td>
<td>Recording</td>
</tr>
<tr>
<td>Self-timer</td>
<td>Red blinking</td>
<td>Start of Self-timer.</td>
</tr>
</tbody>
</table>

2.8 Initial settings before use

Setting Date and Time

1. Turn on the Digital Video Camera to set up the date and time for the first time. Set the date and time by moving up/down button or touch the screen to select.

2. Press the 4-Way Direction Button left/right to highlight each column. Then press up/down or touch the screen to select the column.

3. Press the 4-Way Direction Button Up/Down to adjust the value. Press Menu ( hann ) Button to store the value you change or touch the screen to adjust the Year, Date and Time before pressing the Return Button ( ) to store the value and leave the setting.
3 Using the Camera

3.1 Shooting a Movie Clip

1. DV mode is the default setting after you power on the Digital Video Camera.

2. Press the Recording button to start or stop moving recording.

3. The Digital Video Camera will store the Movie clip automatically.

4. LCD screen ratio will be different depending on the setting of Movie Clip resolution. Please refer to the table shown below:

<table>
<thead>
<tr>
<th>Video Resolution</th>
<th>Preview</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD (1280 x 720)</td>
<td>16:9 ratio</td>
</tr>
<tr>
<td>WVGA (848x480)</td>
<td></td>
</tr>
<tr>
<td>WEB (320 x 240)</td>
<td>4:3 ratio</td>
</tr>
</tbody>
</table>
3.2 Voice Recording:

1. Turn on the Digital Video Camera.
2. Adjust the MODE button to enter Voice Recording mode
3. Press the Recording button to start or stop Voice recording.

3.3 Shooting / Playback images

1. Turn on the power and adjust the Mode Button to DSC Mode.
2. Press Shutter Button to capture images.
3.4 Movie Clip / Voice Clip Playback

1. In Movie/Voice Recording Mode, press Playback Button to display recently stored file on the LCD screen.

2. Press 4-Way Direction Button up/down, left/right to view the stored file. Press Menu ( ) Button to playback or touch the screen to select Playback of the file.
3. To pause the Playback of file, press the Recording button or touch the screen icon (\(\text{\textbullet}\)).

4. Press the Playback Button to return to Movie/Voice Recording Mode.

5. You can also playback the movie clip by different speed by touching (ON/OFF) the screen icon (\(\text{\textbullet}\)).

Playback speed is as below when the Slow Motion is “OFF”:
You can play back faster than the recorded speed.

<table>
<thead>
<tr>
<th>2X play</th>
<th>4X play</th>
<th>8X play</th>
<th>16X play</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rewind</td>
<td>Rewind</td>
<td>Rewind</td>
<td>Rewind</td>
</tr>
</tbody>
</table>

Playback speed is as below when the Slow Motion is “ON”:
You can play back slower than the recorded speed.

<table>
<thead>
<tr>
<th>1/2X play</th>
<th>1/4X play</th>
<th>1/8X play</th>
<th>1/16X play</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rewind</td>
<td>Rewind</td>
<td>Rewind</td>
<td>Rewind</td>
</tr>
</tbody>
</table>

For: Rewind 2X play  For: Forward
3.5 Images Playback

1. In DSC Mode, press Playback Button to display the images on the LCD screen.

2. Press 4-Way Direction Button up/down, or left/right to view the stored files. Press Menu ( ) Button to replay or touch the screen to playback.