Digital Camcorder
User's Manual
Safety Precautions

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Safety Precautions

Don't attempt to modify or dismantle this Digital camcorder in any method, so as to avoid any damage to the camcorder or electric shock.

When the camcorder is not to be used for a long time, please take out the battery, so as to avoid energy loss or any damage to the camcorder.

Don't put or store the camcorder in circumstances with high temperature, so as to avoid any damage to the camcorder.

For the consideration of safety, please keep the product and its accessories away from kids or animals, so as to avoid any accident.

In case any liquid or foreign substance enters the camcorder, please stop using it temporarily, and shut it down and disconnect the power, and then resort to assistance from your local distributor.

Don't operate the camcorder with wet hands, so as to avoid electric shock.

Don't use the flash lamp before people or animals at a short distance less than 1cm, since too close flashing may cause sight hurt to the objects being shot.

It is normal that the surface temperature of the camcorder may rise after being used for a period of time.

Don't touch the lens during usage.
**Introduction to DV Recorder**

### Fast Guide

**Load the battery**
1. Open the battery cover according to the arrow direction.
2. Put the battery into the battery slot according to proper polarity position.
3. Close the battery cover.

**Insert and take out SD card (optional)**
1. Open the battery cover. Insert the SD card.
2. When the SD card is in use, the built-in memory will be suspended from use.
3. To take out the SD card, please press the card and take it out.

**Start the camcorder**
1. Press and hold the power key for 1 second, or open the TFT, the camcorder will work.
2. The camcorder will work and the green LED indicator will turn on. Enter into shooting mode.
3. Rotate the TFT as below:

**Mode menu**
Under the non-mode menu, press the key mode to mode menu, press the key left or right to choose the mode, and press confirm into this mode.

**Playback key**
Under anyone model press the playback key enter into the playback mode, and press the key once again to return to the video recorder mode.

**Video recorder mode**
1. Press the right key to zoom in digitally.
2. Press the left key to zoom out digitally.
3. Press the menu key to enter the menu options.
4. In the video mode, press the shutter key once to start recording, and press the key once again to stop recording.
5. In the video mode, press the down key switch 4:3 and 16:9 mode.
6. Shoot when recording: Press the OK key to shoot when recording (up to ten photos).

**Camera mode**
1. To select photo frames, please press the OK key to select frame setting. There are 8 sets of digital frames available.
2. Press the left key to zoom in digitally.
3. Press the left key to zoom out digitally.
Introduction to DV Recorder

Fast Guide

4. In the camera mode, press the down key to toggle four flashing modes:
   (1) off (2) red-eye (3) forced flash (4) forced flash
5. Press the menu key to enter the camera menu options.
6. In the camera mode, press the shutter key to take a photo.
7. In the mode menu, choose the low in one mode.
8. In the camera mode press the up key switch 4:3 and 16:9 mode.
   
   Note: Please clean out the lens before record video or take photos.

Playback mode
In the playback mode, there are three modes: voice playback, video playback, and photo playback.

Voice playback
1. Press the up/down keys to select a file, and then press the OK key to play the file, press the OK key to stop.
2. Press the left/right keys to adjust the volume.
3. Press the menu key to select delete/safeguard functions.

Video playback
1. Press the up/down keys to select a file, and then press the OK key to play, press the OK key once again to pause the playback, press the mode key to back to the main menu.
2. Press the left key to pop up the playback option menu, including fast-forward/fast-backward/volume options.
3. Press the menu key to select delete/safeguard functions.

Photo playback
1. Press the up/down keys to select a file, and then press the left key to enter the 3x3.
2. Press the menu key to select the delete/safeguard functions.
3. Press the right key to enter the zoom-in/out interface, then enter into the corresponding operation according to tips.

Voice recording
Press the shutter key to start recording. The display will show the recording time and countdown. During the recording, you can press the shutter key to stop the recording.

Setting menu
Press the left/right keys to select a setting menu, and then press the OK key to enter menu options. Then, press the OK key to return.

Music mode
1. You can copy music files from PC to the music folder in the memory of the Digital camcorder.
2. Press the up/down keys to select a song, and then press the OK key to play, and press the OK key to pause playing.
3. During the playback, press the left/right keys to adjust the volume.
4. Press the menu key, choose delete current and delete all music files, press the key to back to the music folder on the playing.
5. Press the shutter key to toggle three playing modes:
   - Repeat all
   - Repeat one
   - No repeat

Note: Your Digital camcorder can show lyrics synchronously while playing music. To enable the function, please make sure the music file and the LRC file are saved in the same music folder of the memory or SD card.

PC mode
1. Under any mode, POP-up the choose menu when USB cable being connected.
   - PC mode/storage mode.
2. Press the up/down keys to select the "PC mode/storage mode", press the OK key choose the mode you wanted.

Reading E-book
1. Press the up/down keys to select a file, and then press the OK key to open the file.
2. Press the menu key to choose delete current and delete all text files, press the key to back to the e-book folder on the playing.
3. Note: The e-book shall be TXT file format and store into TEXT document in the built-in or external memory.

Game
1. Press the OK key to enter the game status.
2. Press the up key to rotate.
3. Press the down key to drop.
4. Press the left key to move left.
5. Press the right key to move right.
6. On the playing games, press the OK key for fast dropping.

Shut down
Press the power key and shutter the TFT cover, the recorder will be shut down automatically.
**Key Functions**

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power key</td>
<td>power up/off.</td>
</tr>
<tr>
<td>Shutter key</td>
<td>shoot, start/stop shooting and recording, adjust repeat</td>
</tr>
<tr>
<td>Mode key</td>
<td>Enter into mode menu, toggle 9 modes including video recorder, camera, playback, voice recording, setting menu, music, PC, E-book, and Game modes.</td>
</tr>
<tr>
<td>Menu key</td>
<td>in video recorder/camera/playback modes, press the menu key to pop up the option menu.</td>
</tr>
<tr>
<td>Playback key</td>
<td>Fast playing the files.</td>
</tr>
<tr>
<td>Left key</td>
<td>select menu options and files left, adjust music volume (-). and digitally zoom out;</td>
</tr>
<tr>
<td>Right key</td>
<td>select menu options and files right, adjust music volume (+). and digitally zoom in;</td>
</tr>
<tr>
<td>Up key</td>
<td>select menu options and files upwards. Choose LCD model.</td>
</tr>
<tr>
<td>Down key</td>
<td>select menu options and files downwards and toggle flash modes.</td>
</tr>
<tr>
<td>OK key</td>
<td>Confirm and select photo frames.</td>
</tr>
</tbody>
</table>

**Option Function**

<table>
<thead>
<tr>
<th>Video recorder mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>(4:3) 720X480/640X480/320X240 (16:9) 1280X720/1024X576</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>30/25/24</td>
</tr>
<tr>
<td>Voice Recording</td>
<td>ON: Audible recording, OFF: Silent recording</td>
</tr>
<tr>
<td>White Balance</td>
<td>Sunny: For external light source, Cloudy: For cloudy weather, Tungsten: For tungsten light, Fluorescent: For fluorescent light, Normal: Normal</td>
</tr>
<tr>
<td>Image Effect</td>
<td>Sepia: Sepia effect, Black: Black and white effect</td>
</tr>
<tr>
<td>Exposure Value</td>
<td>-2.0 - +2.0 Adjust the compensation value according to the light condition</td>
</tr>
</tbody>
</table>

**Camera mode**

<table>
<thead>
<tr>
<th>Resolution</th>
<th>(4:3) (16:9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12M 4000 X 3000</td>
<td>9M 4000 X 2248</td>
</tr>
<tr>
<td>8M 3264 X 2448</td>
<td>6M 3264 X 1832</td>
</tr>
<tr>
<td>5M 2592 X 1944</td>
<td>4M 2592 X 1456</td>
</tr>
<tr>
<td>3M 2048 X 1536</td>
<td>3M 2048 X 1152</td>
</tr>
<tr>
<td>2M 1024 X 768</td>
<td>1M 1024 X 576</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time Stamp</th>
<th>ON: Show date and time, OFF: Do not show date or time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shooting Mode</td>
<td>Single: Single shooting, Continuous: Three continuous shooting</td>
</tr>
<tr>
<td>10sec Self-timer</td>
<td>Enable: 10sec delay auto shooting timer</td>
</tr>
<tr>
<td>20sec Self-timer</td>
<td>Enable: 20sec delay auto shooting timer</td>
</tr>
<tr>
<td>Two in one</td>
<td>Two photos synchronize the one photo</td>
</tr>
</tbody>
</table>

| Exposure Value | -2.0 - +2.0 Adjust the compensation value according to the light condition |
| Scenario | Auto: Normal environment, Scenery: Scenic environment, Flower: Flower environment, Night: Night view environment |
| White Balance | Auto: Auto adjustment, Sunshine: For external light, Cloudy: For cloudy weather, Tungsten: For tungsten light, Fluorescent: For fluorescent light |
| Image Quality | Best: Best image quality, Good: Good image quality, Normal: Normal image quality |
**Key Functions**

### Setting

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date time</td>
<td>Set date and time</td>
</tr>
<tr>
<td>Version</td>
<td>Current version number / version upgrade</td>
</tr>
<tr>
<td>Language</td>
<td>English, Simplified Chinese, Traditional Chinese, Japanese, French, German, Italian, Spanish</td>
</tr>
<tr>
<td>Beep</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>Power Saving</td>
<td>1 min / 2 min / OFF</td>
</tr>
<tr>
<td>TV OUT</td>
<td>PAL/NTSC</td>
</tr>
<tr>
<td>Format</td>
<td>Format the current storage media</td>
</tr>
<tr>
<td>Media</td>
<td>Internal flash/External card</td>
</tr>
<tr>
<td>Frequency</td>
<td>50Hz/60Hz</td>
</tr>
<tr>
<td>Stabilizer</td>
<td>ON/OFF</td>
</tr>
<tr>
<td>Default</td>
<td>Reset to default factory setting</td>
</tr>
<tr>
<td>Start image</td>
<td>Choose the startup image is the user want</td>
</tr>
<tr>
<td>Screen Brightness</td>
<td>Choose the accurate screen brightness on the different environment</td>
</tr>
</tbody>
</table>

### Playback Mode

<table>
<thead>
<tr>
<th>Option functions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delete</td>
<td>Delete a single or all selected movie(s), photo(s), voice file(s), or music file(s)</td>
</tr>
<tr>
<td>Startup image (for photos only)</td>
<td>Self define startup image for the current photo</td>
</tr>
<tr>
<td>Rotate</td>
<td>Rotate and save the current photo</td>
</tr>
<tr>
<td>Print</td>
<td>Directly connect to printer to print photos</td>
</tr>
<tr>
<td>Lock</td>
<td>Prevent videos, movies, photos, voice files and MP3 files from being deleted accidentally</td>
</tr>
<tr>
<td>Cropped photos only</td>
<td>Crop a photo to create a new one</td>
</tr>
<tr>
<td>Slide Show (for photos only)</td>
<td>Slide show photos</td>
</tr>
</tbody>
</table>

**Note:** photos with resolution 4,000x3,000 cannot be rotated.

### Transmit data to PC

Open "My Computer" on the desktop. There is a removable disk icon: if there is no SD/MMC card, the internal memory is the removable disk; if there is a SD/MMC card, it is the removable disk. In the memory mode, you can use Windows interface to access data in the recorder, including cut/copy/delete files in the recorder.

### Requisite software installation and usage

You can use PC to use and operate the memory offered by the camcorder as well as its web cam function. Before the use, please install the software driver.

- **Install driver**
  To use the video communication function, please install the driver for your current operating system. Click the corresponding driver in the installation CD.

  Note: Before installing the driver to the PC, do not connect the camcorder to the USB port of the PC, so as to avoid driver installation error.

- **Media Converter**
  You can use your PC to convert movies, audio files and pictures and then download to your DV recorder. Before that, please install the media converter tool.

- **Software installation**
  Click the "Install Media Converter" button in the software installation interface. After the installation, there will be a shortcut icon on the desktop. Directly click the icon to run the software.
Introduction to DV Recorder

Requisite software installation and usage

1. Click the "Select media file" button to open the file selection dialogue box. Select your desired video file to convert and confirm.
2. Click the "Select target file" button to open the file selection dialogue box. Select the folder to save the converted video file and confirm.
3. Click the "Convert" button to start the conversion.

Senior setting:

- Click the "Setting" button to pop up the above window.

Troubleshooting

- I cannot take a photo or video or record voice?
  Change the resolution, image quality or frame rate setting, or change another storage card with sufficient free space; check whether the storage card is locked; delete some files.

- The indicator is not on when the camcorder is being charged?
  Reload the battery according to correct polarity; make sure that the AC power works properly; re-plug the power adapter.

- The flash lamp cannot flash?
  In shooting pictures, if the battery is low, the flash lamp will not work.

- How to take good photos?
  Please make use of the tripod. In dark places, please use the flash lamp or lights to compensate light.

- The picture in the viewfinder with dirty mark?
  Please clean off the lens.

- Camcorder shows no memory space for record video?
  When the memory space less than 4MB, the camcorder will show memory space is full and can not record video.