Thank you for choosing the HD080 1080p Full HD 1080i Helmet DV to pursue your digital video adventures. Whether you are racing at the track, pedaling through the woods or gliding through fresh powder, to get the utmost satisfaction from your digital video, please take a moment to read this manual. Its contents will send you on an educational journey into your camera’s multiple capabilities.

APPROVAL INFORMATION

All our products meet the requirements of approval FCC or CE, and are granted the FCC or CE certification. They are authorized to bear FCC or CE mark.

FCC:
This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

CE:
This product complies with standards including Low Voltage Device Directive 73/23/EEC; EMC Directive 89/336/EEC and R&TTE Directive 1999/5/EC. It passed the subject tests by the authority concerned and is authorized to bear CE mark.

ABOUT THE MANUAL

We do our best to ensure all content and details contained within this manual are accurate and up to date with the product specifications at the time of printing this manual. However, product functions and specifications may change without notice. In the event that the manual information does not match the actual product functions or specifications, the products functions or specifications will be considered correct and the manual considered incorrect.
Main Features

- 1.5inch TFT LCD (480X240)
- 5.0MP High definition CMOS image sensor
- 1080P H.264.MOV video recording format
- Waterproof function (Rain water level)
- Easy operation for recording and taking a picture
- Optional picture resolution (12M, 8M, 5M, 3M)
- Video and Picture playback available
- Internal SD card reader for memory expand (SDHC 1GB~32GB available)
- High speed USB 2.0 interface for power charge and date transfer
- HDMI 1080i output
- 3.7V 1300MA removable and rechargeable Li-ion battery
- Secure mounts for different use

The Name of Each Part

1. Up
2. MENU
3. Down
4. ON/OFF
5. REC
6. MIC
7. Power charging indicator
8. Recording indicator/Power on
3. Package Contents

- Manual
- DISC
- HD080
- Battery
- Grip
- Strap
- Power Charger
- Mount
- HDMI Cable
- Handlebar Grip
- USB Cable
1. Checking The Battery Status

To install the battery, open the battery door by sliding the latch up (Latch is tight. You may need to use a coin). Insert battery and rotate locking tab as shown. Close and latch battery door fully before use.

1) Charging the battery

User can charge HD080 by connecting the USB cable to a computer or by using the AC Adaptor.

A. Charging by connecting to PC

Connecting to the PC with the camera off will charge the battery. Connecting to the PC with camera on will allow for data transfer.

B. Charging With AC/DC Adaptor

2) Battery Charging Time & Operating Time

<table>
<thead>
<tr>
<th>Charging Time</th>
<th>Continuous play time</th>
<th>Recording time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx. 1hrs in Power on</td>
<td>Approx: 4 hours</td>
<td>Approx: 2 hours and 30 minutes (1080P)</td>
</tr>
<tr>
<td>Approx. 3hrs 30mins in Power Off</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

When plugging or unplugging the AC/DC adaptor, turning off the unit is strongly recommended. The maker strongly recommends using a supplied AC/DC adaptor, but if it is necessary that another AC/DC adaptor is purchased separately at a shop, please check its electric specification is in accordance with HD080'S specification.
### 3. Battery Remaining Status

<table>
<thead>
<tr>
<th>Level</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Charge</td>
<td></td>
</tr>
<tr>
<td>Some Power Consumed</td>
<td></td>
</tr>
<tr>
<td>Power almost drained</td>
<td></td>
</tr>
<tr>
<td>NO Power</td>
<td></td>
</tr>
</tbody>
</table>

To make sure the battery and power charger work as long as possible:

- Do not leave unit plugged in for extended periods. Excessive power charging will reduce the battery working life and possibly damage the unit;
- The battery will gradually lose charge when not in use, always charge it prior to use;
- Please disconnect power when unit is not in use.

For the first time usage, charge the battery at least 12 hours. Make sure power off when charging battery.

### 1. Card Type and Capacity

A. The DV built in 13MB ROM memory is for system files only.
B. The DV built in SD card reader supports SD and SDHC cards up to 32GB.

Note: Some SD or SDHC cards may not work properly, SD/SDHC cards made by sandisk are strongly recommended.

### 2. Checking the Memory:

User should check if the SD card is installed well before using the camera.

Please install the SD/SDHC card correctly, the side with metal faces up, the side with character faces down.

---

<table>
<thead>
<tr>
<th>Internal Memory</th>
<th>External Memory (SD card)</th>
</tr>
</thead>
</table>

---

**Note:**
- The DV built in 13MB ROM memory is for system files only.
- The DV built in SD card reader supports SD and SDHC cards up to 32GB.
- Note: Some SD or SDHC cards may not work properly, SD/SDHC cards made by sandisk are strongly recommended.

**For the first time usage, charge the battery at least 12 hours.** Make sure power off when charging battery.
Main Menu
- Record Setting
  - System Setting

Motion detection
- ON
- OFF

Record Setting
- Size
  - 1920x1080
  - 1440x1080
  - 1280x720
  - 848x480
- Size
  - 12M
  - 8M
  - 5M
  - 3M
- EV
  - +0/-0.3/-0.7/-1/-1.3/-1.7/-2.0
  - +2.0/+1.7/+1.3/+1/+0.7/+0.3/+0
- White B
  - Auto/Fluorescent/Tungsten/Cloudy/Sunny
- Contrast
  - Standard
  - Soft
  - Hard
- Sharpness
  - Standard
  - Soft
  - Hard
- Effect
  - Off/Vivid/Monochrome/Negative/Sepia/Art
- Recycle
  - No
  - 15Mins
  - 30Mins
  - 45Mins
- Audio
  - On
  - Off

System Setting
- Volume
  - 1/2/3/4/5/6/7/8
- Language
  - 繁体中文
  - 简体中文
  - English
  - Russian
  - Italiano
  - 日本
- Date
  - YYYY-MM-DD
- Clock
  - HH:MM
- Format
  - No
  - Yes
- Sys.reset
  - No/Yes
- Auto Off
  - Off
  - 5Mins
  - 3Mins
  - 1Mins
- Light Fred
  - 50Hz
  - 60Hz
- Stamp
  - On
  - Off
- Lcd Off
  - Off
  - 5Mins
  - 3Mins
  - 1Mins
- Version
  - V20120323802
1. Record Setting

Press ON/OFF to power on, then press MENU to enter the setting menu.

Use UP and DOWN to select menu, press REC to change setting and press MENU to save and quit.

2. System Setting

Press MENU to enter the record setting menu, then press MENU to switch to the “system setting” menu.

Use UP and DOWN to select menu, and press REC to change the setting, then press MENU to save and quit.

3. Zoom function

Press the ON/OFF button to boot into the screen, press the UP or DOWN, the zoom function of the choice of;

4. Formatted, the system setting function

Menu choice, press the REC button to select the formatting features YES, press ON/OFF to confirm, the system set up similar;

5. Take picture and Record video

Short press ON/OFF under monitor condition will take a picture, the green recording indicator will flash one time.

Short press REC under monitor condition will start the video Recording. While recording, the green recording indicator will flash and the red REC icon will be displayed in the upper left corner of the screen. (Figure below)
Red indicator mean the camera is under recording condition, 00:03:29 is the recorded time.

Estimated SD card recording time. Below is the available recording time for video and pictures.(For reference only, real parameters shall control)

<table>
<thead>
<tr>
<th>SD Card</th>
<th>1280X720P</th>
<th>1920X1080P</th>
<th>848X480P</th>
<th>2592X1944</th>
<th>3200X2400</th>
</tr>
</thead>
<tbody>
<tr>
<td>8GB</td>
<td>200 min</td>
<td>120 min</td>
<td>320 min</td>
<td>3996 photos</td>
<td>3193 photos</td>
</tr>
<tr>
<td>4GB</td>
<td>100 min</td>
<td>60 min</td>
<td>160 min</td>
<td>2386 photos</td>
<td>1565 photos</td>
</tr>
<tr>
<td>2GB</td>
<td>50 min</td>
<td>30 min</td>
<td>80 min</td>
<td>1148 photos</td>
<td>753 photos</td>
</tr>
<tr>
<td>1GB</td>
<td>25 min</td>
<td>15 min</td>
<td>40 min</td>
<td>589 photos</td>
<td>386 photos</td>
</tr>
</tbody>
</table>

6. Video playback
A. Playback in the camera
Long press REC to enter the playback condition, use UP and DOWN to select the files, short press REC to play the files.
While playing the files, you could use UP and DOWN to do Fast Forward and Rewind.
Press MENU to stop playing and quit.
Long press REC to quit playing back menu.
Video file display: Picture file display:

Slide show playback:
To review videos and pictures in slideshow mode, press MENU under playback condition, use DOWN to select “SLIDE SHOW” menu, Press the REC to select the slideshow mode, press ON/OFF to Recognized and play, Press the UP or DOWN to stop the slide show. Stay in the current browser's file, press the REC button to pause playback, press the MENU to select the menu function, Long press REC to stop slide show and return to video mode.

B. TV playback(HDMI)
Connect the camera with TV by HDMI cable, power on the camera, switch the TV to the HDMI video channel.
Long press REC to enter the playback condition under playback condition, use UP and DOWN to select files, short press REC to play the files.
While playing the files, you could use UP and DOWN to do Fast Forward and Rewind.
Press MENU to stop playing and quit.
Long press REC to quit playing back menu.
Attention:
Output resolution is 1080i in playback mode and 480i in record mode. A 1080p HD TV is required to view the 1080i HD signal. The camera will recognize the TV system when connected.

C. Delete files
Under the playback condition, press to switch out the delete menu and do the delete operation. (Figure below)

Press REC to select YES or delete all.

Press ON/OFF to confirm "delete" operation.

D. Connect with Computer
Connect HD080 to PC thru the provided USB cable for downloading or uploading file and upgrading firmware.

1. Connect the Camera with Computer by the USB cable.
2. Power on the camera.
3. The screen of the camera will display "USB connected".
Attention: User can not do any operation on the Camera after connected with the computer, only operation in computer available.

4. Open "My Computer" and navigate to the correct removable disk. (The disk may be called "NO_NAME" or it may be blank depending on your operating system).

Picture details:

5. Copy or move the files to your PC.
6. You can play video files using any .MOV compatible player installed on your computer.

Advise: Advise the user to use "KM player" media software to play the video files.
# General Specification

<table>
<thead>
<tr>
<th>SPEC</th>
<th>Detail &amp; Support</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Storage Device</td>
<td>13MB</td>
<td>Support SDHC 32GB</td>
</tr>
<tr>
<td>SD Card</td>
<td>1-32GB</td>
<td></td>
</tr>
<tr>
<td>LCD</td>
<td>Size</td>
<td>1.5 inch</td>
</tr>
<tr>
<td></td>
<td>Resolution</td>
<td>480*240,TFT</td>
</tr>
<tr>
<td>Sensor</td>
<td>Optical Format</td>
<td>1/3.2 inch (4:3)</td>
</tr>
<tr>
<td></td>
<td>Active Pixels</td>
<td>2592Hx1944V</td>
</tr>
<tr>
<td>Video</td>
<td>Output Ch</td>
<td>Mini-HDMI</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TV/LCD Selectable</td>
</tr>
<tr>
<td>Audio</td>
<td>Built-in MIC</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Output Ch</td>
<td>1Cj</td>
</tr>
<tr>
<td></td>
<td>Speaker</td>
<td>Mono</td>
</tr>
<tr>
<td>PC Interface</td>
<td>Mini-USB</td>
<td>USB2.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High Speed</td>
</tr>
<tr>
<td>Power</td>
<td>Battery</td>
<td>3.7V, 1300mAH</td>
</tr>
<tr>
<td></td>
<td>AC/DC Adaptor</td>
<td>DC 5V, ≥500mA</td>
</tr>
<tr>
<td>Size</td>
<td>Dimensions</td>
<td>117x53x32.7mm</td>
</tr>
<tr>
<td></td>
<td>Weight</td>
<td>133g</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Battery installed</td>
</tr>
<tr>
<td>Other functions</td>
<td>Motion Record</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Timer Stamp</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>LCD On/Off</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Slide Show</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Video/Audio Select</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Auto Power Off</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Image Thumbnail View</td>
<td>NO</td>
</tr>
<tr>
<td></td>
<td>Record Quality Select</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Support LCD Off to Recording</td>
<td>YES</td>
</tr>
<tr>
<td>Recording</td>
<td>Recording Video Format</td>
<td>NTSC/PAL</td>
</tr>
<tr>
<td></td>
<td>Recording Resolution</td>
<td>1920x1080 30fps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1280x720 30fps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>848x480 60fps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>640x320 60fps</td>
</tr>
<tr>
<td></td>
<td>Video &amp; Audio Rec.</td>
<td>YES</td>
</tr>
<tr>
<td>Audio Rec.</td>
<td>Resolution</td>
<td>1920x1080</td>
</tr>
<tr>
<td></td>
<td>Frame Rate</td>
<td>Max.30fps</td>
</tr>
<tr>
<td></td>
<td>File Format</td>
<td>HD=H.264</td>
</tr>
<tr>
<td></td>
<td>Playback speed</td>
<td>1/8, 1/4, 1/2, 1, 2, 4, 8</td>
</tr>
<tr>
<td>PC Player</td>
<td>KM Player</td>
<td>Stored in the folder of HD082</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Internet Download available</td>
</tr>
</tbody>
</table>