Thank you for choosing the Extreme HD 1080p Full HD Helmet Camera 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. It’s 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 Directive1999/5/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’s considered incorrect.
Do not store the device in any place with following conditions:

- High temperature (45°C or higher)
- Exposure to the direct sun rays or a heating device
- Inside the car with closed windows (especially, in the summer)
- Humid place such as the bathroom

When removing dust, use soft, dry cloth. Do not use organic solvents such as thinner or benzene or wet cloth.

Do not place a debit card or a bus pass near the speakers. Magnetic interference may occur, which will damage the card.

Do not place the device near a magnet. The device may not work properly.

Do not repair, disassemble, or remodel the device.

Do not use the product in a place where use of electronic devices is prohibited.

Do not operate or set up this device while driving. If it is required to change set up, please do it after pulling over the car or before driving.

Do not heat up or short the main body or the battery.

When using an auxiliary device, leave a gap between the auxiliary device and the main device.

Incorrect use of the product by the user or a third party or static electricity or electric shock loaded on the product may cause loss of or change in the data saved in the product during repair services or replacement of the battery.

Keep the device out of reach of children.

Waterproof Capability

-The waterproof capability of this camera is similar as IPX6;

-Please do not use the camera under water;
Main Features

- 1.5inch TFT LCD (480 x 240)
- 5.0 MP 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 recording resolution (Full HD/HD/WVGA/VGA)
- Optional picture resolution (3200 x 2400/8M, 2592 x 1944/5M)
- Video and Picture playback available
- Internal SD card reader for memory expand (SDHC 1GB~32GB available)
- High speed USB2.0 interface for power charge and date transfer
- HDMI 1080i output
- 3.7V 1300MA removable and rechargeable Li-ion battery
- Secure mounts for different use
1. Main Unit & Buttons

1. MIC
2. Power on/Power charge indicator
3. MENU button
4. Down/Fast Forward
5. Up/Rewind
6. Recording indicator
7. 1.5inch LCD
8. Power ON/OFF, / Picture Capture / Quit / Confirm
9. Record/Play/Choose
2. Display & Icon

- Resolution
- Usable Memory
- Battery Icon
- SD card Icon
- Date
- Usable Recording time
- Time
3. Package Contents

- Extreme HD
- Disc
- Power charger
- HDMI Cable
- USB Cable
- Battery
- Head Strap
- Universal Clip
- Helmet Grip
- Goggle Mount
- Handlebar Grip
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 HD119 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.
Power Charger

B. Charging With AC/DC Adaptor

C. Charging With Cigar-lighter

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. 5hrs 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 HD119's specification.
3) Battery Remaining Status

<table>
<thead>
<tr>
<th></th>
<th>Full Charge</th>
<th>Some Power Consumed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Status</td>
<td><img src="image1" alt="Battery Icon" /></td>
<td><img src="image2" alt="Battery Icon" /></td>
</tr>
<tr>
<td></td>
<td>Power almost drained</td>
<td><img src="image3" alt="Battery Icon" /></td>
</tr>
<tr>
<td></td>
<td><img src="image4" alt="Battery Icon" /></td>
<td><img src="image5" alt="Battery Icon" /></td>
</tr>
<tr>
<td></td>
<td>No Power</td>
<td><img src="image6" alt="Battery Icon" /></td>
</tr>
</tbody>
</table>

To make sure the battery and power charge work as long as possible.

- Do not leave unit plugged in for extended periods. Excessive power charge 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 the power is off when charging battery.
1, Card Type and Capacity.

A, The camera’s built in 32MB ROM memory is for system files only.

B, The camera’s 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.

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

Please install the SD card correctly, the side with metal faces up, the side with character faces down.
Main Menu
   └── Record Setting
       ├── System Setting

Record Setting
   ├── Size
   │   ├── 1920 x 1080
   │   │   ├── 1280 x 720
   │   │   │   └── 848 x 480
   │   │   ├── 640 x 480
   │   └── Size
   │       ├── 8M
   │       │   └── 5M
   │       └── EV
   │           └── +0/+0.3/+0.7/+1/+1.3/+1.7/+2.0
   │               └── +0/-0.3/-0.7/-1/-1.3/-1.7/-2.0
   └── 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
           └── 35Mins
               └── 45Mins

Audio
   └── No
       └── Off
System Setting

Volume — 1/2/3/4/5/6/7/8

Language
- 简体中文
- 繁体中文
- English
- Russian
- Spanish
- Italiano
- 日本

Date — YYYY-MM-DD

Clock — HH:MM

Format — No
- Yes

Sys.Reset — No / Yes
- Off

Auto Off — 5Mins
- 3Mins
- 1Min

Light Fred — 50Hz
- 60Hz

Stamp — On
- Off

Lcd Off — Off
- 5Mins
- 3Mins
- 1Mins

Version — V2010924
Basic Operation

1, Record Setting

Long press ( ) to power on, then press ( ) to enter the setting menu.

Use ( ) and ( ) to select menu, press ( ) to change setting and press ( ) to save and quit.

2, System Setting

Press ( ) to enter the record setting menu, then press ( ) to enter the “system setting” and “record setting” switch condition, then press ( ) to switch to the “system setting” menu.

Use ( ) and ( ) to select menu, and press ( ) to change the setting, then press ( ) to save and quit.
3. Take picture and Record video

Short press under monitor condition will take a picture, the red recording indicator will flash one time.

Short press under monitor condition will start the video Recording. While recording, the red 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>200min</td>
<td>120min</td>
<td>320min</td>
<td>3996photos</td>
<td>3193photos</td>
</tr>
<tr>
<td>4GB</td>
<td>100min</td>
<td>60min</td>
<td>160min</td>
<td>2386photos</td>
<td>1565photos</td>
</tr>
<tr>
<td>2GB</td>
<td>50min</td>
<td>30min</td>
<td>80min</td>
<td>1148photos</td>
<td>753photos</td>
</tr>
<tr>
<td>1GB</td>
<td>25min</td>
<td>15min</td>
<td>40min</td>
<td>589photos</td>
<td>386photos</td>
</tr>
</tbody>
</table>
4. Video playback

A. Playback in the camera

Long press \( \text{▶/站着} \) to enter the playback condition under playback condition, use \( \uparrow \) and \( \downarrow \) to select the files, short press \( \text{▶/站着} \) to play the files.

While playing the files, you could use \( \uparrow \) and \( \downarrow \) to do Fast Forward and Rewind.

Press \( \text{MENU} \) to stop playing and quit.

Long press \( \text{▶/站着} \) to quit playing back menu.

Video file display:

Picture file display:

Slide show playback:

To review videos and pictures in slideshow mode, press \( \text{MENU} \) under playback condition, use \( \uparrow \) to select “SLIDE SHOW” menu, choose the playing speed and then press \( \text{▶/站着} \) to confirm the setting. Press \( \text{▶/站着} \) to begin slide show. Long press \( \text{▶/站着} \) to stop the slide show and return to video mode.
Basic Operation

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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 \( \text{to enter the playback condition under playback condition, use } \)\( \text{ and } \)\( \text{ to select the files, short press } \)\( \text{ to play the files.} \)

While playing the files, you could use \( \text{and } \)\( \text{ to do Fast Forward and Rewind.} \)

Press \( \text{to stop playing and quit.} \)

Long press \( \text{to quit playing back menu.} \)

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 \[MENU\] to switch out the delete menu and do the delete operation. (Figure below)

Press \[\] to select YES or delete all.

Press \[\] to confirm “delete” operation.
D, Connect with Computer

Connect HD119 to PC thru the provided USB cable for downloading or uploading files 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:

![Image of My Computer]

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.
<table>
<thead>
<tr>
<th>SPEC</th>
<th>Detail &amp; Support</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Storage Device</td>
<td>32MB</td>
<td></td>
</tr>
<tr>
<td>SD Card</td>
<td>1-32GB</td>
<td>Support SDHC 32GB</td>
</tr>
<tr>
<td>LCD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Size</td>
<td>1.5inch</td>
<td></td>
</tr>
<tr>
<td>Resolution</td>
<td>480x240,TFT</td>
<td></td>
</tr>
<tr>
<td>Sensor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optical Format</td>
<td>1/2.5inch(4:3)</td>
<td></td>
</tr>
<tr>
<td>Active Pixels</td>
<td>2592H x 1944V</td>
<td></td>
</tr>
<tr>
<td>Video</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output Ch</td>
<td>1Ch</td>
<td>TV/LCD Selectable</td>
</tr>
<tr>
<td>Audio</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Built-in MIC</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>Output Ch</td>
<td>1Ch</td>
<td></td>
</tr>
<tr>
<td>Speaker</td>
<td>Mono</td>
<td></td>
</tr>
<tr>
<td>PC Interface</td>
<td>USB</td>
<td></td>
</tr>
<tr>
<td>USB</td>
<td>USB 2.0 (High Speed)</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery</td>
<td>3.7[V], 1300[mAH]</td>
<td>Li-ion Polymer</td>
</tr>
<tr>
<td>AC Adaptor</td>
<td>DC 5V, 1.5A</td>
<td></td>
</tr>
<tr>
<td>Size</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>116x27.2x44.8[mm]</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>133[g]</td>
<td>Battery installed</td>
</tr>
<tr>
<td>Other functions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Memory Change in Memory Full</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>Time Stamp</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>Record Quality Select</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>Slide Show</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>LCD On/Off</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>Video/Audio Select</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>Image Thumbnail View</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Support LCD Off to Recording</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>Recording backup to low battery</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>Auto Power Off</td>
<td>YES</td>
<td></td>
</tr>
<tr>
<td>Recording</td>
<td>Video Recording</td>
<td>Video Format</td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------</td>
<td>--------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Resolution</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1920x1080 30fps</td>
</tr>
<tr>
<td>Audio Rec.</td>
<td>Video &amp; Audio Rec</td>
<td>848x480 60fps</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Playback</th>
<th>Video</th>
<th>Resolution</th>
<th>1920x1080 1280x720</th>
<th>848x480 640x480</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Frame Rate</td>
<td>Max. 30 fps</td>
<td>Max. 60 fps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>File Format</td>
<td>HD=H.264</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Playback speed</td>
<td>1/8, 1/4, 1/2, 1, 2, 4, 8</td>
<td></td>
</tr>
<tr>
<td>PC Player</td>
<td>KM Player</td>
<td>Stored in the folder of HD119</td>
<td>Internet Download available</td>
<td></td>
</tr>
</tbody>
</table>
We will not inform you if there is any modification for user manual in future