Operation Guide

Water Proof

Outdoor Sports

HD1080P Camera
Main Features

- 1080P HD video recording
- Built-in 1.5" TFT display screen, real-time display
- Professional waterproof housing: IP68 under water 30 meters
- Wide view angle 150 degree
- Turn on/off on the waterproof case directly by long press DC button 3 seconds
- Mini size and portable to take
- Replaceable and rechargeable lithium battery
- 1/2.5 CMOS sensor, 5.0 Mega Pixels
- Auto white balance and automatic exposure
- F/3.0 and night shots
- Supports 3X Digital zoom
- Auto stand-by for power saving
- Review, delete, fast forward, reverse and skip
- USB2.0
- Built-in speaker and microphone
- HDMI output, AV-OUT
- Supports Micro SD card up to 32G
- Low battery alert
- Memory capacity alert
- LCD power save
Packing Accessories

1. Camera x 1
2. Waterproof Case x 1
3. Case Mount x 1
4. Curved Adhesive Mount x 2
5. Bike Mount x 1 (optional)
6. HDMI Cable x 1 (optional)
7. A/V Cable x 1
8. Screw Connector x 1
9. Chest harness mount x 1 (optional)
10. Headstrap Mount x 1 (optional)
11. Belts x 3
12. Power Adapter x 1 (optional)
13. Car Charger x 1 (optional)
14. Charge Cable x 1
15. Micro SD Card x 1 (optional)
16. Pouch x 1
17. Li-battery x 1
18. Handline x 1
19. Manual x 1
20. Self-timer/Auto REC indicator (red)
21. Micro SD card slot
22. Flat Adhesive Mount (optional)
23. Remote Controller x 1 (optional)
24. Rollbar Mount x 1 (optional)

Note: The photos may vary from the actual objects

Quick Look

1. Record Button
2. Power on/off switch
3. LED Indicator for Power/Charge (red)
4. LED indicator for Record/photo (Green)
5. DC button
6. USB Socket
7. MIC
8. Battery slot
9. HDMI interface
10. Right button
11. Speaker
12. Playback Button
13. Down Button
14. OK Button
15. Up button
16. Left Button
17. Menu Button
18. TFT Screen
19. Lens
20. Self-timer/Auto REC indicator (red)
21. Micro SD card slot
22. AV OUT socket
23. Built-in Microphone
24. Screw thread interface
Quick Start

This Quick-start Guide introduces the basic operations and functions of HD 1080P Video Camera.

Preparations

1. Install the battery.
2. Charge the battery
   Connect the camera to power with adapter. The LED will be flashing red. When the battery is fully charged, the LED will be red.
   TIPS: User can charge the camera with either USB cable or power Adapter. The Camera can work while recharging with Power Adapter which connecting With Adapter Cable.
3. Insert the memory card.
4. Slide the power switch to ON. The following symbols will be shown on LCD:

   ![Symbols](image.png)

   1080P

5. Set Date and Time
   ◆ Under the preview mode, press M to go to the main Menu.
   ◆ Press >.
   ◆ Then press the button — to select "date and time"
   ◆ Press < ok > to choose the date or time to set, then press OK.
   ◆ Press + or — to set the digits of the date and time, press OK again to confirm the set.
   ◆ Finally, press — to select the icon [✓] or [X], and press OK to confirm that date and time to be stamped or not.

6. Set the Parameters
   ◆ Power on the camera. Press M, then press < or > to turn left or right, press + or — to go up and down, press OK to set the menu you select, then press M again to exit the setting.
   ◆ REC modes: video mode or audio recording mode
     1080P (1920 x 1080) @ 30fps
     720P (1280 x 720) @ 60fps
     WVGA (848 x 480) @ 60fps
     QVGA (320 x 240) @ 30fps
   ◆ Photo parameter: single shot mode, Triple shot mode, Self shot mode
   ◆ Photo resolution: optional :3M/5M/8M
   ◆ System parameters:
     ■ Date and Time: please set the time before using. The time will be stamped at the below right corner of the video file while recording if choosing [✓].
     ■ Time display: Choose the time stamp for LCD and photo/video
     ■ Beep: turn on [✓] / off [X] the sound.
     ■ Loop record: when it is in "Loop record" mode, the videos will be saved separately every 15 minutes.
     ■ LCD standby: Press OK button, then press < or > to set LCD Power Save Time: 0, 2, 5 and 10 minutes later to activate the function. Press REC or DC button to wake up it.
     ■ Auto Standby: Set the video came in auto standby mode in 0, 2, 5 or 10 minutes. When video camera is in the Auto Standby mode, press the REC or DC button to wake up it.
     ■ Language: English, French, German and more
     ■ TV standard: NTSC. PAL. Choose TV OUT format, if changing the
format, it needs to re-plug the AV extension cable to make the change efficient.

- **Frequency**: 50Hz, 60Hz; select it according to the local frequencies to avoid the flicker caused by the mismatched frequency.
- **Format**: Press OK button, then press < or > to choose [V] or [X]. It will delete all files, including protected files.
- **Default**: this operation will resume to the default setting

**Note:**

- When the camera is on, long press DC button on waterproof case for 3 seconds, the camera will turn off (standby). Long press DC button on waterproof case for 3 seconds, the camera will turn on (wake up) again.
- Under Loop Record mode, the video files will be saved separately automatically every 15 minutes. Otherwise, the video files will be saved separately automatically every 30 minutes.
- If using the digital zoom function while recording, the video file will be bigger. It will be saved separately less than 15 or 30 minutes.

**Video Recording**

The Compression Technique —H.264 ensures high quality videos.

1. Make sure the memory card is high speed, then slide the power switch to ON. The LED will light red. The video will be shown on the LCD.
2. Under the preview mode, press the button REC, the video camera begins recording, the recording time will appear on the screen, the recording LED indicator flicks green slowly and the Self-timer/Auto REC indicator flicks red slowly.
   When the video camera is recording, press the button + or - to zoom in or out (only under 720P mode). Press REC again to stop the recording.

**Note:**

- Mirror: at preview mode, Press OK button, then press < or > to activate the Mirror function.

**Photo Taking**

Set the image resolution:
press the button M, then press the button > to select the icon PHOTO, click the icon Resolution, and then press OK to set the image resolution.

- **Image resolution**: 2048×1536 (3M); 2560×1920 (5M); 3200×2400 (8M)

1. **Self shot**:

   Press the button M, then press the button > to select the icon PHOTO, choose Self shot. Press the button OK to set the time interval: 0 sec /5sec /10sec. In that time, press the button DC, the camera will take pictures according to the time interval you have set.

2. **Time lapse**:

   Press the button M, then press the button > to select icon PHOTO, choose Time lapse Mode, press the button OK to set the time interval: 0 sec/2 sec /3 sec /5 sec /10 sec /20 sec /30 sec /60 sec, then press the button M to exit from the setting. Then if you press the button DC, the camera will take pictures according to the time interval you have set. Press the button DC again will cancel or stop photo taking.

3. **Single shot**:

   When the video camera is power on, press the DC button, the camera will take one picture, the indicator light will flick one time.

4. **Triple shot**:

   Press the button M, then press the button > to select the icon PHOTO, choose Triple shot Mode. Then if you press the button DC, the camera will take three pictures consecutively.
Audio Recording

1. Press the button M, then press OK, press the button < or > to select REC, press OK to confirm it, and then press the button M to exit.

2. Press the button REC, the green indicator light flicks slowly, the recording time will be displayed on the screen.

Display videos photos
Under the preview mode, press the playback button to go to the interface of playback.

- **Video files**: select the menu Video File, press OK to preview the recorded video files or audio files, press the button - to go to the thumbnail preview of files. When viewing the video files or audio files, press the button M, you can delete or protect the files: <Delete> <delete all> <protect>

  The functions of the buttons when the camera is playing video files:
  1. +: increase volume
  2. -: reduce volume
  3. <: Fast Backward (X2 or X4)
  4. >: Fast Forward (X2 or X4)
  5. Playback: pause/ play
  6. OK: start/stop

- **Audio files**: press the button < or >, select the audio file you want to play, press the button OK to start/stop playing the file. In this situation, press the button + or - to increase or reduce the volume, press the button PLAYBACK to pause or stop playing the file.

- **Photo files**: press the button < or >, select the photo files you want to display.

  The functions of the buttons when the camera is displaying photo files:
  1. +: zoom in
  2. -: zoom out, thumbnail
  3. <: select left pictures; in “ZOOM IN” mode, it can move up the pictures.

4. >: select right pictures; in “ZOOM IN” mode, it can move down the pictures.
5. Playback: exit
6. Press M button to delete the photos.
   <Delete One>: Press OK button twice, then choose YES or NO.
   <Delete All>: If you choose YES, all of the unprotected photos/videos will be deleted.
   <Protect>: If the files are protected, the LOCK icon will be shown on the files. You can choose the function once again to unprotect it. The protected files cannot be deleted but can be formatted.
   <AutoPlay>: The files will be played every 5 seconds.
   <DPOF>: The icon DPOF will be shown on the files if you chose this function.
   DPOF: Digital Prints groups Format

7. OK: at “ZOOM IN” mode, press the button OK, press the buttons UP, DOWN, LEFT and RIGHT to move the pictures vertically and horizontally.

Play videos or display photos on TV

You can enjoy HD videos on the ordinary TV or HD TV.

1. Connect TV Out: under the preview mode, connecting AV cable, the pictures/video will display on the TV’s screen.
2. Connect HDMI OUT: under the preview mode connecting HDMI cable, the pictures/video will display on the screen of HD TV.

View the videos and photos on the computer

A simple but interesting step, enjoy it!

1. Connecting the camera and computer with USB cable, you can upload the videos or photos to the computer, editing them and sharing them with your family and friends.

Tips:
☆ Make sure the video camera is power off before you plug the USB cable.
☆ When the power is OFF, inserting a USB can recharge the video camera.
☆ When the power is ON, connecting the camera to the computer, you can copy the content in the memory card.
**Specification**

<table>
<thead>
<tr>
<th>Sensor</th>
<th>5.0 Mega CMOS SENSOR (2592 × 1944)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lens Angle</td>
<td>150 degrees</td>
</tr>
<tr>
<td>Photo Resolution</td>
<td>3M(2048 × 1536)/5M(2560 × 1920)/8M(3200 × 2400)</td>
</tr>
<tr>
<td>Video Resolution</td>
<td>1080P (1920 × 1080) 720P (1280 × 720) WVGA (848 × 480) QVGA (320 × 240)</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>1080P/30fps 720P/60fps WVGA/60fps QVGA/30fps</td>
</tr>
<tr>
<td>Video Format</td>
<td>MOV (H.264 compression)</td>
</tr>
<tr>
<td>Photo Format</td>
<td>JPEG</td>
</tr>
<tr>
<td>Storage medium</td>
<td>Micro SD/MMC card (up to 32GB SDHC, high speed)</td>
</tr>
<tr>
<td>Storage capacity</td>
<td>Photos: 3M(1900) 5M(1160) 8M(770) Video: H.264 1080p: about 40 minutes ; H.264 720p: about 60 minutes ; WVGA: about 135 minutes</td>
</tr>
<tr>
<td>Digital zoom</td>
<td>3x digital zoom (under 720p)</td>
</tr>
<tr>
<td>AV OUT</td>
<td>support NTSC/PAL analog video output &amp; HDMI output, support analog audio output</td>
</tr>
<tr>
<td>PC Port</td>
<td>USB2.0 (USB 2.0 FUNCTION)</td>
</tr>
<tr>
<td>Microphone</td>
<td>Built-in MIC, Speaker</td>
</tr>
<tr>
<td>Power dissipation</td>
<td><a href="mailto:400mA@3.7V">400mA@3.7V</a>(MAX)</td>
</tr>
<tr>
<td>Lithium battery</td>
<td>1000mAh</td>
</tr>
<tr>
<td>Recording time</td>
<td>2.5 hours (one battery)</td>
</tr>
<tr>
<td>Operation System</td>
<td>Windows XP SP2/Vista or Above/Mac OS</td>
</tr>
<tr>
<td>CPU</td>
<td>≥Pentium 4 1.5GHZ</td>
</tr>
<tr>
<td>RAM</td>
<td>≥1GB</td>
</tr>
<tr>
<td>RTC</td>
<td>support</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20°C~50°C</td>
</tr>
<tr>
<td>Working temperature</td>
<td>-10°C~50°C</td>
</tr>
<tr>
<td>Working humidity</td>
<td>15~85%RH</td>
</tr>
</tbody>
</table>

**Trouble Shooting**

<table>
<thead>
<tr>
<th>Trouble</th>
<th>Reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD and LED does not light when power on</td>
<td>Check the POWER Switch</td>
<td>Make sure the Power Switch was slide to ON position.</td>
</tr>
<tr>
<td>LED light red, LCD does not display when power on</td>
<td>Check the micro SD card</td>
<td>1. If the micro SD card is damaged, the camera system will not work. 2. Format the micro SD card with Card Reader on computer. Then reinstall the micro SD card to the camera. If still not work, change it to high speed micro SD card please.</td>
</tr>
<tr>
<td>Cannot record or take photos</td>
<td>Check the micro SD card</td>
<td>Format micro SD card in the camera</td>
</tr>
<tr>
<td>Hand Shake or the light is not enough</td>
<td>System Error</td>
<td>Restart the camera</td>
</tr>
<tr>
<td>The video or photo mode is not set properly</td>
<td>Lens is dirty</td>
<td>Clean the lens with special paper.</td>
</tr>
<tr>
<td>The video or photo mode is not set properly</td>
<td>You are suggested to set the video at HD 1080P mode and 8M for photos.</td>
<td>You are suggested to set the video at HD 1080P mode and 8M for photos.</td>
</tr>
</tbody>
</table>

**Buttons no response**

| System Error | Take out the battery, then reinstall to power on the camera |
Remote Controller Simple Guide

Basic Operation:

- "DC button" for camera
- "Record" for video
- "Stop" for stop. And the red indicator shows the work status. (Note: For changing mode from Video to Camera, "Stop" button must be pressed firstly.)
- Press any key to wake up the camera in the standby mode.
- Remote Distance: Max. 5 meters in all direction (in open area)
- Waterproof Level: IP67, 1m under water

Accessory:

Belt:

When the cam does not respond to the remote controller, how to do?

1. When the camera is off, press the camera's "recording" button, at the same time turn on the camera.
2. After the camera is on (hearing beep), release the "recording" button.
3. Make the camera and remote controller face to face.
4. Then press both the controller's "recording" and "stop" buttons for 3 seconds.
5. Press "DC" or "Record" button on the remote controller, the camera will work.