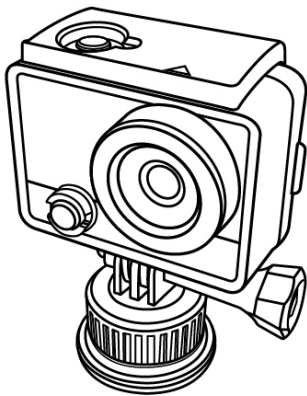


1080p Action Camera



USER MANUAL

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1. Introduction

Welcome to the world of digital imaging. The following information will help you to use your **Action Camera HD-160AW** to its full capabilities.

Before you install and operate the product, please take a few minutes to read through this manual. It provides proper instructions for you to install and operate the product.



The electron device may be affected by static electricity interference. Please plug-in / out and wait a few minutes to start this function.

● System Requirement

PC System Requirements

- Intel® Core2Duo 1.8G or AMD equivalent CPU
- Hi-speed USB2.0 port
- 1 GB RAM internal memory minimum
- 500MB free hard disk space
- 800 x 600 pixel color monitor
- nVIDIA GeForce MX440 or above, AMD (ATi) Radeon 9200 or above
- DirectX 9.0 or higher
- Windows® XP (SP2 or higher) / Windows Vista™ / Windows 7™, Windows 8™

Note: If your system is Windows XP Service Pack I, please go to www.microsoft.com. It's free to update your system to Windows XP Service Pack II.

Mac System Requirements

- Power PC G5 or Intel Core Duo processor recommended
- Free USB2.0 port
- 1 GB RAM internal memory minimum
- 500MB free hard disk space
- 800 x 600 color monitor
- Mac OS 10.5 or above

2. Preparation

● Component & Accessories



Action Camera



Waterproof Case



User Manual



Base Mount



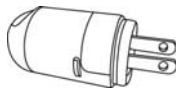
Bike Mount



Tripod Mount



micro USB Cable



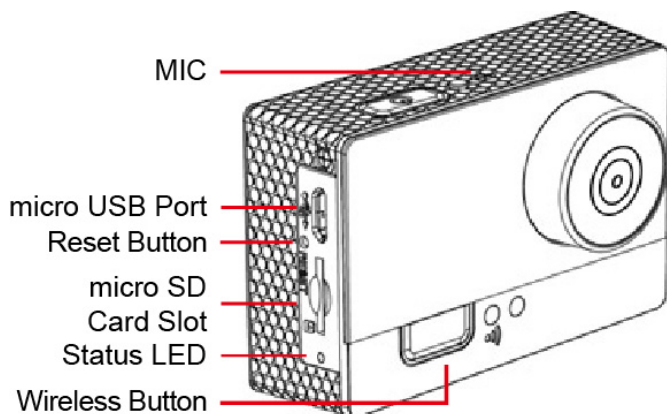
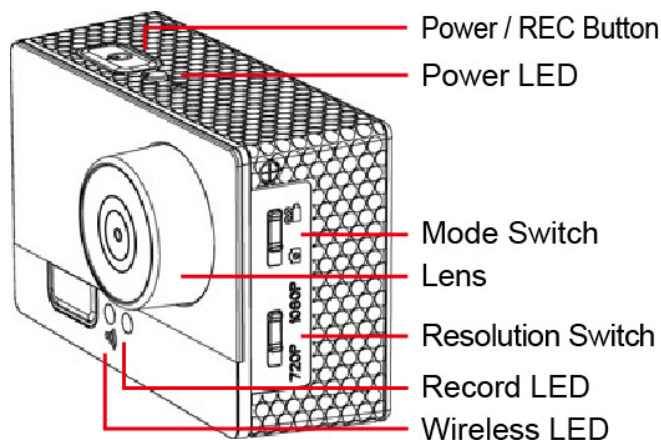
AC Wall Adaptor



micro SD Card
(Optional)

● Part Name

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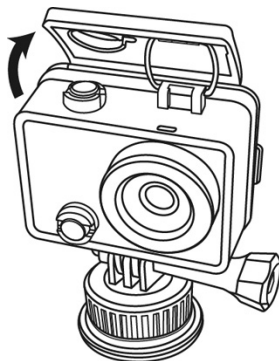
3. Install

● Take Out the Action Camera

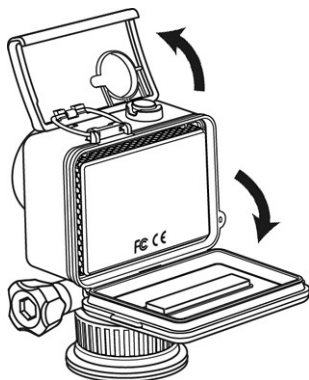
1. Release the latch of the **Waterproof Case**.



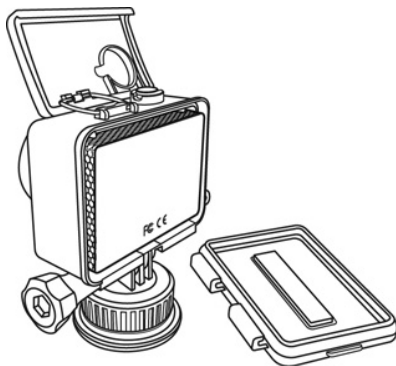
2. Open and push the latch to the end.



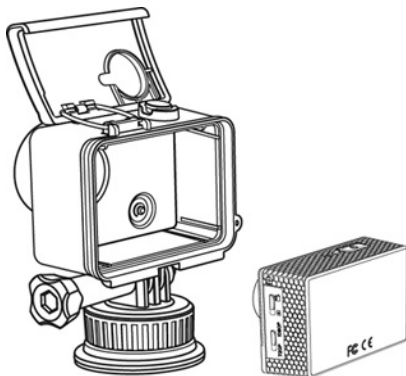
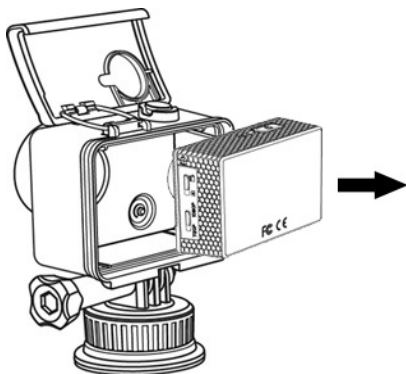
3. Release the hook of the latch and open the case cover.



4. Dismount the case cover.

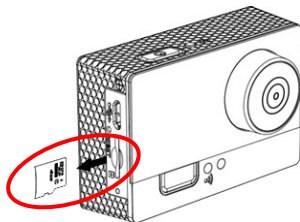


5. Take out the **Action Camera** from the **Waterproof Case**.



● Memory Card Install

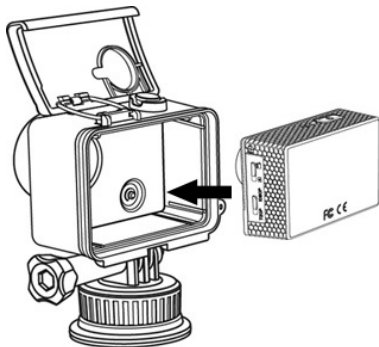
1. Make sure the **Action Camera** has powered off.



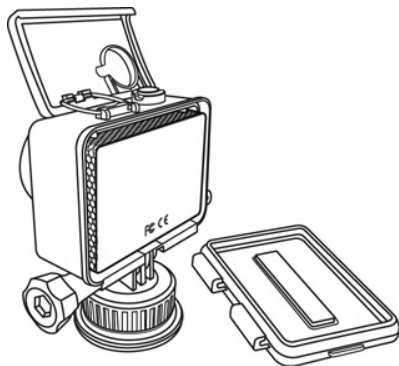
2. Insert a compatible micro SD card into the memory card slot of the **Action Camera**.

● Install the Action Camera

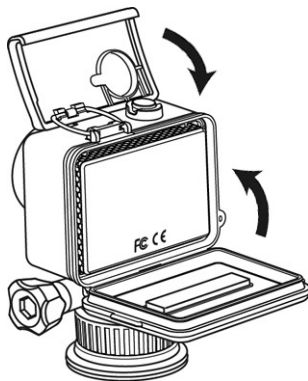
1. Put the **Action Camera** back in the **Waterproof Case**.



2. Push the **Action Camera** to the end of the case.



3. Hook up the case cover and close it then push the latch down and lock the case cover.



4. Force the latch down to the end.

EN



5. Make sure the latch has locked and the case cover has closed completely.



● Base Mount Install

1. Clean the flat surface where you want to fix the **Base Mount**.
2. Remove the protected membrane of adhesive on the **Base Mount**.

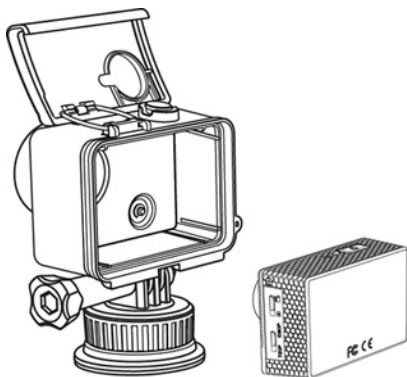


3. Put and compress the **Base Mount** on where you want to install and keep it for at least 24 hours to make sure the adhesive has firmly stuck on.

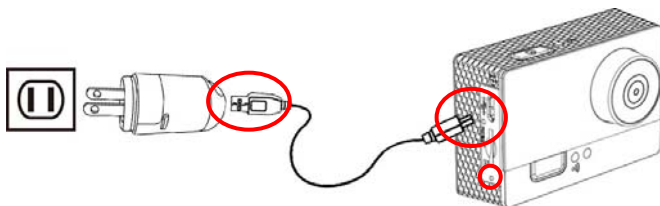
4. Charge

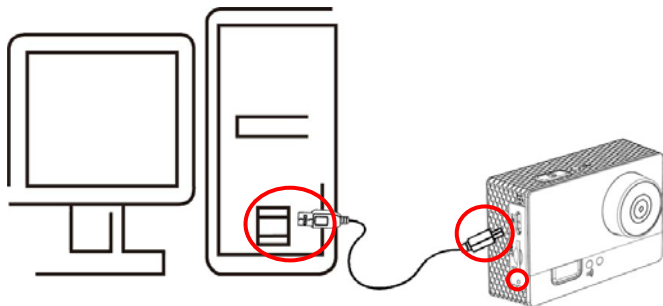
EN

1. Open the **Waterproof Case** and take out the **Action Camera**.



2. Plug the micro USB cable into the supplied **AC Wall Adaptor** or a PC / Mac USB 2.0 port.





3. The **Status LED** at the left side of the **Action Camera** light on in **Green** to tell you it's charging. When the **Status LED** turns off, the battery is full and charge completely.

Note: The **Action Camera** vibrates 3 times and power off when the battery power is low and need to recharge it.

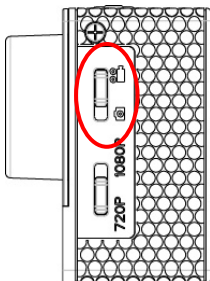
5. Record

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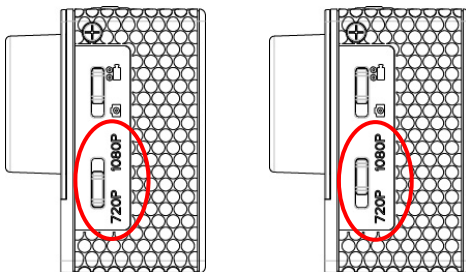
● Car Mode

■ Circulated Recording

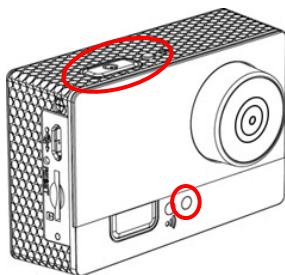
1. Slide the **Mode Switch** down to the **Car Mode**.



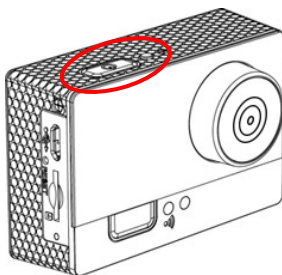
2. The Video Record supports 2 resolutions. Slide the **Resolution Switch** up for Full HD 1080p and slide down for HD 720p.



3. Press and hold the **Power / REC Button** for 3 seconds then release to turn on the **Action Camera**. The **Action Camera** vibrates 3 times and the **Power LED** light on in **Blue**. The **Wireless Function** active at the same time.



4. The **Action Camera** vibrates 1 time and start recording automatic. The **Record LED** light on in **Red** and The **Wireless LED** light on in **Blue** when ready.



5. Press the **Power / RED Button** then release. The **Action Camera** vibrates 1 time, stop record, turn off the **Record LED** and save file.

6. Press and hold the **Power / RED Button** for 3 seconds then release again. The **Action Camera** vibrates 3 times, the **Power LED** turn off and power off.

- Note:**
1. Don't take out the micro SD card during the video record.
 2. The Status LED will flash the RED if no microSD card insert into the microSD card slot and power off after 10 seconds automatic.
 3. In **Circulate Record Mode**, the camera circulate record video and overwrite the oldest recorded file first.
 4. The recorded file divides each 3 minutes per file.
 5. The file name format is **CAR_0001.MOV**.
 6. Always check the SD card space and make sure the car has enough space to save new files.
 7. The camera auto power on and record when plug-in the micro USB cable with an external power supply.
 8. The camera auto stop record, save file and power off when the external power off from the micro USB port.

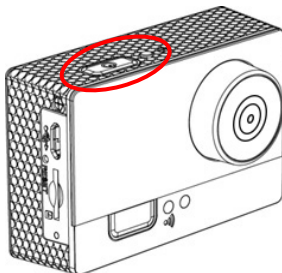
■ Accidental Record

The built-in **3-axis G-force Sensor** always detects strong forces from any directions. When a rapidly variational force (like a collided accident) was be detected during the video record. The current recording file will be locked and can't be overwritten even the memory card is full.

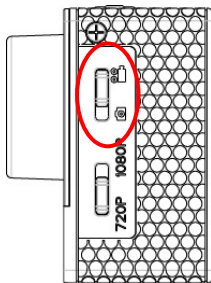
- Note:**
1. Base on the situation of the traffic to adjust the sensitivity of G-force Sensor. If the sensor is too sensitively that will easy to create a locked file just a slight variation. (Regarding how to adjust the sensitivity of G-force sensor, please refer "**SMC App**".)
 2. The file named format is **SOS_0001.MOV**.
 3. Always check the SD card space and make sure the camera has enough space to save new files.

● Sporty Mode

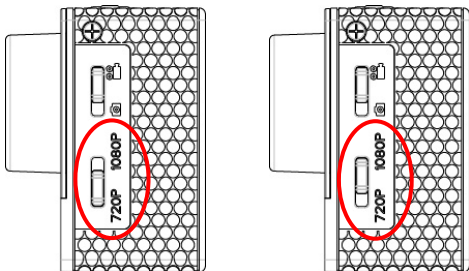
1. Press and hold the **Power / REC Button** for 3 seconds then release to turn on the **Action Camera**. The **Action Camera** vibrates 3 times and the **Power LED** light on in **Blue**.



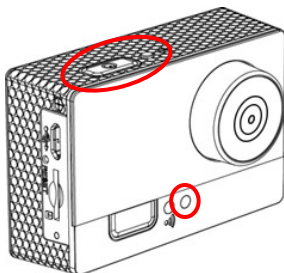
2. Slide the **Mode Switch** up to the **Sporty Mode**.



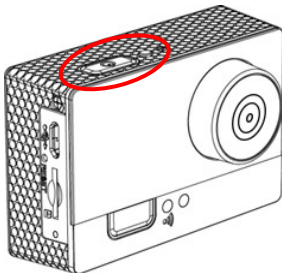
3. The Video Record supports 2 resolutions. Slide the **Resolution Switch** up for Full HD 1080p and slide down for HD 720p.



4. Press and release the **Power / REC Button**, the **Action Camera** vibrates 1 time. The **Record LED** light on in **Red** and start recording.



5. Press and release the **Power / REC Button** again, the **Action Camera** vibrates 1 time. The **Record LED** turns off then stops record and saves file.



6. Press and hold the **Power / RED Button** for 3 seconds then release again. The **Action Camera** vibrates 3 times, the **Power LED** turn off and power off.

Note: 1. Don't take out the micro SD card during the video record.

2. The Status LED will flash the RED if no microSD card insert into the microSD card slot and power off after 10 seconds automatic.

3. The record function disable before wireless ready.

4. The file name format is **MOV_0001.MOV**.

5. Always check the SD card space and make sure the camera has enough space to save new files.

6. The Sporty mode doesn't support the "**Accidental Record**" function.

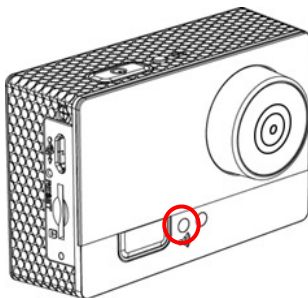
7. In Sporty Mode, the camera doesn't auto power on when plug-in the micro USB cable with an external power supply.

6. Wireless

Wireless function enables user to remotely control the **Action Camera** via Apps from iOS and Android smartphones and tablets.

● Wireless On

1. The wireless function activates automatic when the **Action Camera** power on.
2. The **Wireless LED** lights on in **Blue** when wireless function has ready.



- Note:**
1. Before use the **Action Camera** App to control camera, make sure to connect your camera via WLAN setting in your smartphone or tablet.
 2. Default camera's WLAN name is "**HD160AWC**" and the password is "**1234567890**".
 3. The wireless function disable automatic if disconnect with the App over 3 minutes.

● Control via App

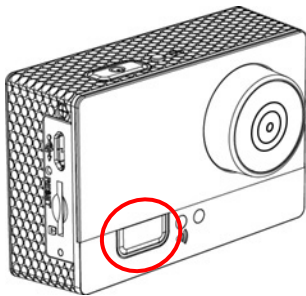
1. Download and install the App **SMC (Smart Camera)** from App Store for iOS or Google Play for Android.



2. Remotely control the **Action Camera** via **SMC (Smart Camera)** from iOS and Android smartphones and tablets.

● Wireless Off

1. The wireless turns off when the **Action Camera** power off.
2. Or you can press the **Wireless Button** to turn on / off wireless function manual.

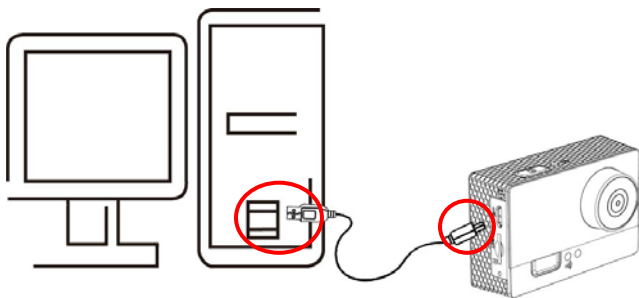


7. Download

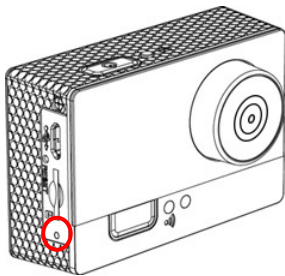
EN

● Download from Camera

1. Connect the supplied mini USB cable into the micro USB port of the **Action Camera**.
2. Plug the USB cable into a PC / Mac USB 2.0 port.



3. The **Status LED** at the left side of the **Action Camera** light on in **Green** after power on.

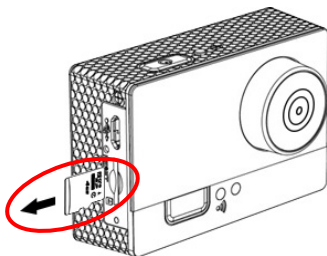


4. On a PC / Mac, your **Action Camera** will mount to your computer as a mass storage device in **MSDC** mode.
5. You may download your video files from the **X:\DCIM\100__DSC** folder created on the micro SD card.

Note: 1. Always eject the device from PC / Mac.
2. The **Action Camera** auto power off when disconnect the micro USB cable.

● Download from Card Reader

1. Make sure the **Action Camera** has turned off.
2. Take the micro SD card out from the **Action Camera** and use a SDHC compatible card reader to transfer files to your computer.



3. You may download your video files from the **X:\DCIM\100__DSC** folder created on the micro SD card.

8. Playback

● Playback from PC

The video file format is **MOV** which can be played by QuickTimeTM with PC / Mac.

- **Windows 7:** The videos can be viewed by the built-in Windows Media PlayerTM or QuickTimeTM.
- **Windows XP:** The videos can be viewed by the Windows Media PlayerTM Ver. 11 or QuickTimeTM.

Note: For PC version which can be downloaded from:

<http://www.apple.com/quicktime/download/>

● Playback from Mac

- **Mac:** Use the built-in QuickTimeTM.

9. Appendix

● Specification

Sensor	5M (2592x1944) CMOS 1/3.2"
DSP	AIT 8427
Lens	4G1P, F2.7, f3.16mm, Optical 132°
Video Resolution	Full HD : 1080p (1920x1080) 30 fps HD : 720p (1280x720) 60 fps
Video File Format	MOV
White Balance	Auto
Exposure	Auto
Video Encoder	H.264
Audio Encoder	AAC and AC3 mono, sample rate 48K
Audio Input	Built-in MIC
Wireless	IEEE 802.11 b/g/n standards compliant
Water-Resistant	IPX8 (Waterproof Case only)
Battery	Internal Li-Ion Rechargeable Battery 3.6V / 2350 mAh
Storage	micro SDHC up to 32GB
Connector	USB 2.0, micro USB (5 pin)
Dimensions	Camera Body : 64.0 x 43.4 x 35.2 mm Waterproof Case : 77.2 x 73.2 x 43.3 mm

※Specifications are subject to change without prior notice.

Waterproof Case Maintenance

Maintenance

1. Inspect O-ring for damage prior to each use.
2. After extended storage, monitor initial use closely to ensure seal is tight.
3. Dry out housing before opening to avoid damage to the seal.
4. Do not rinse outer housing. If dirty, wipe clean with a soft damp cloth.
5. Keep O-ring clean. Dirt may damage the seal.
6. Do not use sharp objects to remove O-ring.

Storage

1. Remove the case cover when store the waterproof case to avoid damage to O-ring.
2. Do not store in direct sunlight or at high temperatures.
3. After use in salt water, soak the camera (closed and tightened the case cover) in fresh water for 1 hr.
4. Activate power button several times while soaking.

Note: With each use, we recommend that you monitor initial immersion in water to ensure your seal is tight.

Federal Communications Commission (FCC) Statement

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.



15.105(b)

This equipment 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. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference and
- 2) This device must accept any interference received, including interference that may cause undesired operation of the device.

FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Trademark Information

QuickTimeTM, MacTM, and iOSTM are trademarks of Apple Inc. or its related companies.

AndroidTM is trademark of Google Inc. or its related companies.

Windows[®], Windows XP[®], Windows Vista[®], Windows 7[®], Windows 8[®], Windows Media Player[®] are trademarks of Microsoft[®] Corporation or its related companies.

This symbol on the product or in the instructions means that your electrical and electronic equipment should be disposed at the end of its life separately from your household waste. There are separate collection systems for recycling in the EU. For more information, please contact the local authority or your retailer where you purchased the product.

