

# Product Manual

Thank you for choosing the new generation product, a smart helmet for urban traffic! This product will bring you more enjoyment and provide you with the most riding safety. Please read the product manual carefully before using the product, so that you can use all the functions of the product properly.

## 1. Product introduction

### 1. Product size

The product is 28.5cm in length, 21cm in width and 18.5cm in height. The inner diameter is 62 cm. The maximum wearable head circumference is 61.5cm, and the adjustment range of head circumference is 56cm-61.5cm. The net weight of the product is 540g (without goggles and earmuff).

### 2. Product package details

Each package contains:

- 1) Smart helmet \* 1pcs
- 2) Goggles \* 1pcs
- 3) Earmuff \* 2pcs
- 4) Remote controller of safety light \* 1pcs
- 5) Remote controller handlebar silicon mounter \* 1pcs
- 6) Micro USB charging cable \* 1pcs

### 3. Product function introduction

#### 1) Brief introduction of helmet structure

The PC shell and polymer EPS protective layer of this product is shaped by in mold integrated molding technology, which makes the product lighter and stronger. The helmet shell and the protective layer are formed as all in one shaped, closely fitting, and will not separate from each other due to long-term use. With the built-in rich functional equipment, it still maintains an ultra light weight of nearly 500g, which enables you to easily wear it in long-distance riding activities and provides you with higher security.

#### 2) Goggles

The goggle is designed to be magnetic installed and replaceable. You can change different colors of goggles at will to meet your different riding needs. The lenses of the goggles are made of reinforced PC material, which is safe and reliable with clear vision. Meanwhile, the goggle has an antifogging coating, which can effectively prevent the inner side of the goggles from fogging and provide you with more intensive safety protection.

#### 3) Adjuster

The helmet with a high-quality elastic adjuster, which can be adjusted flexibly in the range of 56cm-61.5cm according to your head circumference.

#### 4) Lining

This product has breathable material lining, which can quickly take away the heat from the helmet, and can be disassembled for cleaning at any time. After cleaning, the inner lining can be easily re-installed.

#### 5) Camera

The built-in 1080p HD camera in the smart helmet allows you to take videos during riding, record wonderful moments, or use it as a dash cam. During the video recording, you can press the Photo button at any time to take photos without interruption.

#### 6) Hand free BT speaker

The smart helmet has built-in BT 5.0 handsfree audio system. After the smart helmet is paired and connected with your smart phone, you can answer, or refuse the call, redial the last number, or enjoy playing music at any time. You can also use your smartphone to set a navigation for your riding. The voice of your navigation APP will be clearly broadcast in the hands-free audio of the smart helmet, providing more conveniences and fun for your riding.

#### 7) Remote controlled safety light

The smart helmet has built-in remote controlled turn signal light, the turn signal light on your helmet can be activated by pressing the turn button on the remote control, so that the vehicles or people behind you can pay attention to your turning. The remote control of safety light also supports the strobe mode, press the strobe mode button of the remote control, the safety light on the helmet will activate the strobe mode, the riding light will constantly flash with high brightness. The light can make you break through the visual blind area of large vehicles behind, and provide you with a safer riding.

### 2. Use of cameras

#### 1. Camera resolution and specifications

This product has built-in high-definition wide-angle camera components. The resolution of video files is 1920 \* 1080, and the resolution of static pictures is 4032 \* 2880. The maximum diagonal visibility is 120 degrees.

#### 2. Video file and photo file specifications

Video resolution: 1920 \* 1080, encoding format is MJPEG, file format is AVI.

Photo resolution: 4032 \* 2880, file format: JPEG.

#### 3. Use of memory card

This product supports up to 64GB micro-SD memory card. Please insert the memory card in the correct direction into the memory card slot on the side of the helmet lining, and then turn on the camera power to take photos or video. In order to ensure the proper functioning of the camera, please make sure to use a high-speed memory card at least with C10 class, otherwise may cause the damage of the video and the image files. (Note: the memory card is not included in the accessories of the smart helmet. You need to purchase a memory card from your memory card supplier.)

#### 4. Video Recording

1) Press and hold the camera / power button of the smart helmet for 3 seconds, the power of your smart Helmet Camera will turn on, you will hear the notify sound of turning on the camera, and the power indicator under the camera cover will light up.

2) Press the video recording button of the smart helmet, and your smart helmet will start recording video. You will hear the notify sound of recording start

operation, and the power indicator under the camera cover starts flashing. Press the video button of smart helmet again, and your smart helmet will stop recording. You will hear the sound of stop recording, and the power indicator will return to normal.

3) The resolution of the video file captured by the smart helmet camera is 1920\*1080. The system will automatically save the recorded video file in segments. The file size of each segment is 400MB, and the video recording time of each segment is 2 minutes. The video of the smart helmet is recorded in a circular mode. When the remaining capacity of your memory card is used up, the video of the smart helmet will be saved in segments. The system will overwrite the oldest video file on your memory card with the latest recorded video file. If you want the recorded video not to be overwritten, each 64GB memory card can save up to 160 minutes of video. You need to replace a new memory card before the file is overwrite.

#### 5. Take photos

1) Press and hold the camera / power button of the smart helmet for 3 seconds, the power of your smart Helmet Camera will turn on, you will hear the prompt sound of turning on the camera, and the power indicator under the camera cover will light up.

2) Press the Photo button of the smart helmet, and your smart helmet will take a photo immediately. You will hear a capture notify sound.

3) When your smart helmet is recording, you can press the Photo button of the smart helmet at any time to capture, and you will hear the prompt sound of taking photos. Please note that the resolving power of the captured photo is the same as that of the resolving power of Videos (1920 \* 1080).

#### 6. View videos and photos

1) Please eject the micro SD memory card from the slot of the smart helmet and remove it.

2) Insert the memory card into your card reader, and insert the card reader into the USB of the PC, or insert the memory card directly into a PC with a micro-SD memory card slot.

3) You can run the media player of your PC to replay the video files taken by your smart helmet, or view the photo files taken. Your video files are saved in the video folder of the memory card, and your photo files are saved in the picture folder. The file names are arranged in numerical order. You can determine the video file you want to view by viewing the generation date of the video file, or by the time watermark on the video content when playing the video, or select the photo you want to view according to the generation date and time of the photo file. You can also use a variety of computer software to edit the video or photo files taken by the smart helmet and share them with your friends ( Note: the smart helmet does not include computer editing software for video files. You need to purchase such software from your software supplier additionally.)

### 3. The use of Bluetooth speaker

#### 1. Bluetooth version and specification

The Bluetooth hands-free speaker of your smart helmet is Bluetooth V5.0 and supports BLE + EDR mode. The effective connection distance is 8 meters.

#### 2. Connect the mobile phone

1) Press and hold the phone button of the smart helmet for 3 seconds, the power of the Bluetooth audio of your smart helmet will turn on, you will see the indicator light of the Bluetooth speaker start flashing, and you will hear that the Bluetooth speaker has been turned on, waiting for the prompt tone of connection.

2) Open the Bluetooth settings of your smart phone, find the Bluetooth name of your smart helmet "helmet BT" in the list of Bluetooth devices of your smart phone, and select the device to connect. After the connection is successful, you will hear the prompt that the smart helmet has successfully connected.

#### 3. Play music

After the Bluetooth connection is successful, you can use the music playing app on your smart phone to play music, and the audio will be transmitted to your smart helmet hands-free Bluetooth speaker through Bluetooth, so that you can still enjoy the music and other entertainments while wearing the helmet.

### 4. Answer the phone

When the Bluetooth is connected, you can answer the call through the Bluetooth hands-free speaker of the smart helmet. When your smart phone receives a call, your smart helmet will broadcast the call number by voice. You can click the phone button on the smart helmet to answer the call, or double-click the phone button to refuse to answer the call. When your smartphone is in standby mode, you can double-click the phone button on the smart helmet to redial the last call ( Note: some smart phones may require you to select the audio device to answer in the call answering interface. Please make sure that you select Bluetooth device as the audio device to answer the phone, so that you can use the Bluetooth hands-free audio of your smart helmet to answer the phone normally.)

### 5. Play the audio of other apps

Your smart helmet can receive audios from your smartphone app through Bluetooth connection, such as navigation software, e-book reading software and other apps. When you use these apps, it will not affect your normal answering phone calls or listening to music playing on your smartphone.

### 6. Voice control

After the Bluetooth hands-free speaker of your smart helmet is successfully connected with your smart phone, you can call or activate your smart phone voice assistant through the microphone on the smart helmet to operate your smart phone. This function only supports smart phones with built-in voice assistant, so please make sure that your smart phone has built-in voice

assistant function, and that the voice assistant function has been activated in your smart phone settings.

#### 4. Use of remote control of the safety light

##### 1. Specification of safety light

- 1) Led total brightness: 500 lumens
- 2) Operation mode: remote control
- 3) Remote control signal frequency: 433MHz
- 4) Mode: left turn, right turn, flash.

##### 2. Use of remote control of the safety light

1) Press and hold the remote control of the safety light button of the smart helmet for 3 seconds, the power of your smart helmet safety light will be turned on, and the safety light will be on.

2) After the smart helmet safety lamp is turned on, you can operate the remote control of the turn signal of the safety light through the matching remote control. When you need to turn left, press the left turn button of the remote control, and the left turn signal of the smart helmet safety lamp will flash for 8 seconds. At the same time, you will hear the turn signal sound from the left loudspeaker of the smart helmet sound system. The turn signal and warning tone will turn off after 8 seconds, and the safety light will return to normal state. When you need to make a right turn, press the right turn button of the remote control, the right turn light of the smart helmet safety light will flash for 8 seconds, and you will hear the turn sound from the right speaker of the audio system of the smart helmet. The turn signal and warning tone will turn off after 8 seconds, and the safety light will return to normal state.

3) When you need to ride at night or in complex traffic environment, you can start the flash mode of the smart helmet safety light through the remote control to increase your riding safety. Click the flash button of the remote control to activate the flash function of the safety light. You can press the flash button again to turn off the flash function.

##### 3. Automatic induction brake

The built-in acceleration sensing chip of the safety light of the smart helmet can sense the change of speed when you brake, and automatically highlight the brake light of the safety light, so as to remind the rear vehicles ( Note: due to the shaking and bumping of the vehicle during riding, the automatic sensing braking function may be activated due to the sensitive sensing, and the bright brake light is not a fault of the product, nor will it affect the normal use of the smart helmet.)

#### 4. Replace the remote controller battery

1) Please use a screwdriver or coin to turn the battery compartment cover on the back of the remote control clockwise.

2) Remove the battery cover, remove the old button battery from the remote controller battery compartment and install a new one.

3) Align the battery compartment cover with the notch on the back of the remote control, press in the remote control, and use a screwdriver or coin to

turn the battery compartment cover counterclockwise to install the battery compartment cover in the correct position.

4) Make sure to use the CR2032 button battery as the power supply for the remote control. Using button batteries of incorrect specifications may damage your smart helmet remote control.

#### 5. The code matching of remote control

Before using your smart helmet remote control of the safety light, please code the safety light and remote control.

1) Please make sure that your smart helmet safety light is off.

2) Press and hold the power button of the safety light of the smart helmet, and the safety light will be lit up after 3 seconds. At this time, please keep pressing and hold the power button until 8 seconds, you will see the safety light of the smart helmet flashing alternately. At this time, you can release the power button.

3) Take out the remote control, press any key on the remote control, and your smart helmet safety light will complete the code matching process with the remote control. At this time, the safety light will return to the normal state, you can use the remote control to operate the safety light of the smart helmet normally.

4) The code matching operation between the remote control and the safety light of the smart helmet only needs to be carried out once when the smart helmet is used for the first time, and there is no need to repeat the operation.

#### 5. The battery and charging

##### 1. Battery Specification

This product uses lithium-ion safe polymer batteries with a capacity of 1200 mA.

##### 2. Charging

This product is designed with over-current and over-voltage protection circuit. The charging current is set at 350 mA. and the full charging time is about 4 hours.

##### 3. Battery life

1) Bluetooth music playing time is more than 72 hours.

2) The safety light is used for more than 48 hours.

3) The duration of HD camera recording is more than 3 hours.

4) Note: the above battery life statistics are based on the typical application scenarios and laboratory test environment. The actual battery life will be different from the above contents according to the use environment. Please refer to the actual battery life.

#### 6. Waterproofing instructions

##### 1. Waterproof grade

This product is designed according to IPX5 waterproof grade, and can provide the waterproof grade of ordinary splash grade.

##### 2. Precautions

Do not immerse the product in water or use the product in rainstorm weather to

avoid damaging the electronic components inside the smart helmet.

## 7. Q&A

1. There is no response when pressing the power button: please check whether the battery has been exhausted. As the battery may still discharge during transportation, it is recommended that you charge the product for 3 to 4 hours before using it.

2. Unable to take photos or video:

1) Make sure that the micro-SD memory card is properly installed in the memory card slot of your smart helmet.

2) Do not use a memory card with a capacity of more than 64GB. Your smart helmet may not recognize a memory card with a capacity of more than 64GB.

3) Some brands of memory cards may require you to format them before using them. Please consult your memory card supplier for more help.

3. Unable to operate the safety light with the remote control: please try to replace the button battery of the remote control.

4. Unable to make Bluetooth calls with smart helmet:

1) Please make sure that your smart helmet and smart phone are properly paired and connected through Bluetooth.

2) Please check that the volume setting of your smart phone is correct.

3) Please check whether your smart phone has selected Bluetooth device as the audio device for calling.

5. Unable to use voice assistant: please make sure that your smart phone supports the voice assistant function, and check whether the voice assistant function has been turned on or activated in the settings of your smart phone.

## 8. Testing and certifications

This product meets the following test requirements and certifications:

1. Electronic parts certificates: CE, FCC,

2. Helmet safety test:

1) China certificate: GB24429-2009

2) EU certificate: EN1078

3) USA certificate: ASTM f1447, CSCP

3. Environmental protection certificate: RoHS, CA prop 65

## 9. Statement:

1. According to the market demand, user experience feedback and technology update, some appearance and function of this product may be adjusted without further notice.

2. This product is an auxiliary equipment for riding safety. Please use it correctly according to the traffic safety laws and regulations of your country.

## 10. FCC Statement:

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.

To assure continued compliance, any changes or modifications not expressly proved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment 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.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.



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