

USER MANUAL

Model: HA02D



SMART HELMET FOR URBAN TRAFFIC

VERSION: 2021-MP-01

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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 through the product manual carefully before using.

◆ Product Introduction:

● Product Overview

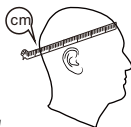


● **Size:** L28.5*W21.0*H18.5cm

● **Weight:** 520g without goggle and earmuff

● **Wearable head circumference:** 56cm-61.5cm

❓ **How to Measure Head Circumference?**
use a flexible rule to circle around the head, the ruler should be put above the ear, and the hair should be measured included.



◆ Packaging Including:



Smart
Helmet *1



Goggle *1



Earmuff *2



Remote
Controller *1



Silicon Gel
Adaptor *1



USB Charging
Cable *1

◆ Function Introduction:

● Helmet:

The PC shell and polymer EPS protective layer of this smart helmet 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.

- **Goggle:**

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 material, which is safe and reliable with clear vision. Meanwhile, the goggle has an anti-fogging coating, which can prevent the inner side of the goggles from fogging and provide you with more intensive safety protection.

- **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.

- **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.

- **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.

- **Hand free BT speaker**

The smart helmet has built-in BT 5.0 hand-free 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 smart phone 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.

- **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.

◆ Use of the camera

● 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.

● Video file and image file format:

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

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

● 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 in 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)



● Video Recording



1. Press and hold the camera 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 recording 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.

● Take photos



Press and hold the camera 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. Press the camera  of the smart helmet, and your smart helmet will take a photo immediately. You will hear a capture notify sound of taking photo.

You can take a picture even when your smart helmet is recording video, you can press the camera button  of the smart helmet at any time to take a photo, and you will hear the notify sound of taking photos. Please note that the resolution of the captured photo is the same as that of the resolution of the video file 1920 * 1080.

● Replay 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. Browse your PC, enter the card reader driver which will be indicated as a removable driver in your PC browser, and find your video files in the video folder, and the photo files in the photo folder.
4. You can run the media player of your PC to replay the video files or view the photo files. The file names are arranged in numerical order. You can select the video file or image file to replay by sorting the generate date of the files.
5. 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: computer video or image editing software is not included in this product's accessories. You need to purchase such software from your software supplier additionally.)

◆ Use of hand-free blue tooth speaker

● Blue tooth version and specification

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

Phone
Button



Blue Tooth
Device Name

● Pairing the mobile phone

1. Press and hold the phone button  of the smart helmet for 3 seconds, the power of the blue tooth speaker of your smart helmet will turn on, you will see the indicator light of the Blue tooth speaker start flashing, you will hear the power on notify sound, and the blue tooth speaker is waiting for connection.

2. Enter Blue tooth settings of your smart phone, find the blue tooth name of your smart helmet shown as **"helmet BT"** in the blue tooth device list of your smart phone, and select the device to connect. After successful pairing, you will hear the notify sound of connected.

● Playing music

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

● Answering or making phone call

When the blue tooth is connected, you can answer the call through the Blue tooth hands-free speaker of the smart helmet. When the ring is on, your smart helmet will broadcast the call number by voice. You can press the phone button  on the smart helmet to answer the call, or double-press the phone button  to reject the call. When your smart phone is in standby mode, you can double-press the phone button  on the smart helmet to redial the last call. (Note: some smart phones may required to select the audio device to answer the call in the phone interface, please make sure to enable the blue tooth device as the audio device to answer the phone, so that the blue tooth hands-free audio speaker of your smart helmet can answer the phone call properly)

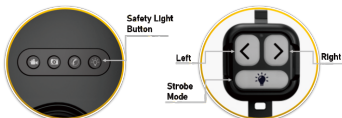
● Audio of other APP

Your smart helmet can receive audio from your smart phone app through blue tooth connection, such as navigation software, e-book reading software and so on. When you are using these APP, you can answer phone calls or listen to music playing on your smart phone without interruption.

● Voice control

After the blue tooth hand-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.

◆ Use of remote controlled safety light



● Specification of safety light

- 1.Led total brightness: 500 lumen
- 2.Operation mode: remote control
- 3.Remote control signal frequency: 433MHz
- 4.Keys: left turn, right turn, strobe.

● Pairing the safety light with remote controller

For the first time to use the safety light, you will need to pair the remote controller with your smart helmet.

- 1.Press and hold the safety light button  on your smart helmet for 7 seconds, the safety light of the smart helmet will turn on and flash in circle round mode, then release the safety light button.
2. Press any key on the remote controller, the safety light on smart helmet will stop flashing and back to normal light, then the pairing is finished successfully.

● Using the safety light

- 1.Press and hold the safety light button  of the smart helmet for 3 seconds, the power of the safety light will turn on and you can see the light is on.

2. After the smart helmet safety light is turned on, you can use the remote controller to make a turn signal. When you need to turn left, press the left turn button  of the remote controller, and the left turn signal light of the smart helmet will flash for 8 seconds. At the same time, you will hear the turn signal sound from the left speaker of the smart helmet. The turn signal and remind tone will turn off after 8 seconds, and the safety light will return to normal. When you need to turn right, press the right turn button  of the remote controller, and the right turn signal light of the smart helmet will flash for 8 seconds. At the same time, you will hear the turn signal sound from the right speaker of the smart helmet. The turn signal and remind tone will turn off after 8 seconds, and the safety light will return to normal.

● Strobe mode

When you need to ride at night or in complex traffic environment, you can start strobe mode of the smart helmet safety light by pressing the strobe mode key  on the remote controller to increase your riding safety. You can press the strobe mode key again to exit the strobe mode.

● Break automatic detection

The built-in G-sensor of the safety light of the smart helmet can detect the deceleration, and automatically turn on the break light in highlight mode, so as to remind the vehicles behind. (Note: The automatic detection may be activated because of the jolt during the riding, it's not a product defect, and will not interrupt your riding)

● Replacing 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 cell 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

controller, 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 incorrect batteries may damage your smart helmet remote controller.

◆ Battery and power charging

● Battery Specification

Battery type: lithium-ion safe polymer

Capacity: 1200 mAh.

● 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.

 **Warning: Please use 5V DC charger to charge the smart helmet. Using incorrect charger may damage your smart helmet.**



1. Uncover the USB connector lid at the back side of the smart helmet.
2. Connect the USB charging cable to the adaptor.
3. Use the USB charging cable to charge.
4. The charging LED light will turn on as notification during the charging, and off after the charging is finish.

● Battery life

1. Blue tooth continuous music playing time 72 hours.
2. Safety light continuous on 12 hours.
3. Duration of HD camera continuous recording 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 result according to the use environment.

◆ Waterproofing instructions

● Waterproof grade

This product is designed to meet IPX5 waterproof grade, which can provide ordinary water splash proofing.

● 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.

◆ Trouble Shooting

● **No response when pressing the power button:**

Please check if the battery has been exhausted . As the battery may still discharge during transportation, it is recommended that you charge the helmet for 3 to 4 hours before using it.

● **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 it.

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

● **Unable to operate the safety light by the remote controller:**

Please try to replace the button battery of the remote control.

● **Unable to make phone call:**

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

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

3.Please check if your smart phone has selected blue tooth audio device for calling.

● **Unable to use voice assistant:**

please make sure that your smart phone supports the voice assistant function, and the voice assistant function has been turned on or activated in the settings of your smart phone.

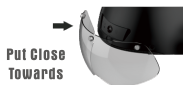
◆ Installing accessories

● **Installing or removing magnetic goggle**

The goggle is designed to mount on the helmet by magnetic connectors, hold the goggle and put close to the helmet magnetic connectors in front of the helmet, the goggle will be fixed in position automatically.



To remove the goggle, please hold the goggle, and pull away from the helmet.



● **Installing or removing the earmuff**

The earmuff can be removed or installed according to the weather condition, you may install the earmuff in cold weather to protect

your ear against the cold wind and keep you warmer during the riding.

The earmuff is designed to be different in LEFT and RIGHT direction.

Please install the earmuff according to the correct direction. To install the earmuff, please hold the earmuff and the plastic connector should towards the connection base of the helmet in correct direction.



Push the earmuff to the base until it is firmly secured.

To remove the earmuff, please grab the edge of the earmuff and pull it out from the helmet.

Grab the edge
and Pull out



Please do not grab the middle of the earmuff to avoid the damage of the connector.

◆ Testing and certifications

This product designed to pass the following test and certifications:

- **Electronic parts certificates:** CE, FCC,
- **Helmet safety test:**
 - 1.China: GB24429-2009
 - 2.EU: EN1078
 - 3.USA: ASTM f1447, CPSC1203
- **Environmental protection certificate:** RoHS, CA prop 65

◆ Supplementary 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 local country.