

Body Camera

Quick Start Guide



Foreword

General

This manual introduces the functions and operations of the body camera (hereinafter referred to as "the Device"). Read carefully before using the device, and keep the manual safe for future reference.

Safety Instructions

The following signal words might appear in the manual.

Signal Words	Meaning
 DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
 CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, reductions in performance, or unpredictable results.
 TIPS	Provides methods to help you solve a problem or save time.
 NOTE	Provides additional information as a supplement to the text.

Revision History

Version	Revision Content	Release Time
V1.1.0	Added 2 models.	June 2022
V1.0.1	Deleted the snapshot of main interface.	July 2021
V1.0.0	First release.	November 2020

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.

About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
- All trademarks, registered trademarks and company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguards and Warnings

The section introduces the proper way of using the Device, and danger and property damage preventions. Read carefully before using the Device, and comply with the guidelines when using it.

Transportation Requirements



Transport the Device under allowed humidity and temperature conditions.

Storage Requirements



- Store the Device under allowed humidity and temperature conditions.
- To avoid short circuits caused by metal objects touching the battery anode and cathode, do not store the battery with other metals.
- If the Device will not be used for a week or longer, charge it to 60%, take the battery out of the Device, and store it in a clean, dry and ventilated room with an ambient temperature of 20 ± 5 °C.
- Charge the battery once every four months during storage.

Installation Requirements



Do not expose the battery to environments with extremely low air pressure, or extremely high or low temperatures. Also, it is strictly prohibited to throw the battery into a fire or furnace, and to cut or put mechanical pressure on the battery. This is to avoid the risk of fire and explosion.

Operation Requirements



Use the power adapter and cables provided with the Device. We assume no responsibility for injuries or damage caused by using the incorrect power adapter and cables.



- To prevent possible hearing damage, do not listen at high volume levels for long periods.
- Use the Device under allowed humidity and temperature conditions.
- Do not continuously charge the battery for 24 hours or longer. When it is finished charging or it no longer needs charging, disconnect the adapter from the Device, and unplug it from the power socket.
- Please be advised that your configurations will be lost after performing a factory reset.

Maintenance Requirements



Make sure to use the same model when replacing the battery to avoid fire or explosion. Dispose the battery strictly according to the instructions on it.



The battery is a consumable accessory. We recommend replacing it after it has been used for a year.

Table of Contents

Foreword	I
Important Safeguards and Warnings	III
1 Product Introduction	1
1.1 Overview	1
1.2 Packing List.....	1
2 Structure and Installation	2
2.1 Device Structure	2
2.2 Indicator Lights	3
2.3 Installing Shoulder Clip.....	4
3 Basic Operation	5
3.1 Starting/Shutting down	5
3.2 Initialization.....	5
3.3 Home Screen	6
3.4 User Management	6
3.4.1 Changing Password	6
3.4.2 Setting Pattern Lock.....	6
3.5 Audio Recording.....	7
3.5.1 Recording Audio	7
3.5.2 One Press to Record Audio.....	7
3.6 Video Recording	8
3.6.1 Recording Video	8
3.6.2 One Press to Record a Video	9
3.6.3 Focusing	9
3.6.4 Marking Important Video	9
3.7 Pictures	10
3.7.1 Taking Picture	10
3.7.2 One Press to Take a Picture.....	10
3.8 Switching between Video and Audio Recording	10
3.9 Recording Audio & Video at the Same Time	11
3.10 IR Light.....	11
3.11 White Light.....	11
3.12 Data Transmission	11
4 SIM Card and Battery Installation	13
4.1 Installing SIM Card	13
4.2 Replacing Main Battery.....	15
Appendix 1 Cybersecurity Recommendations	16

1 Product Introduction

1.1 Overview

This product is a mobile portable terminal for persons of public security, insurance, traffic police and more. It integrates audio/video record and snapshot together.

1.2 Packing List

After receiving the Device, check against the table below. If there are any problems, contact the after-sales service.

Table 1-1 Packing list

Name	Quantity
Device	1
Shoulder clip	1
USB cable	1
Micro USB-to-mini USB adapter	1
Battery	1
Power adapter	1
Quick start guide	1

2 Structure and Installation

2.1 Device Structure



The structure differs depending on the model you are using. The following figures are for reference only.

Figure 2-1 Front and rear panels (1)

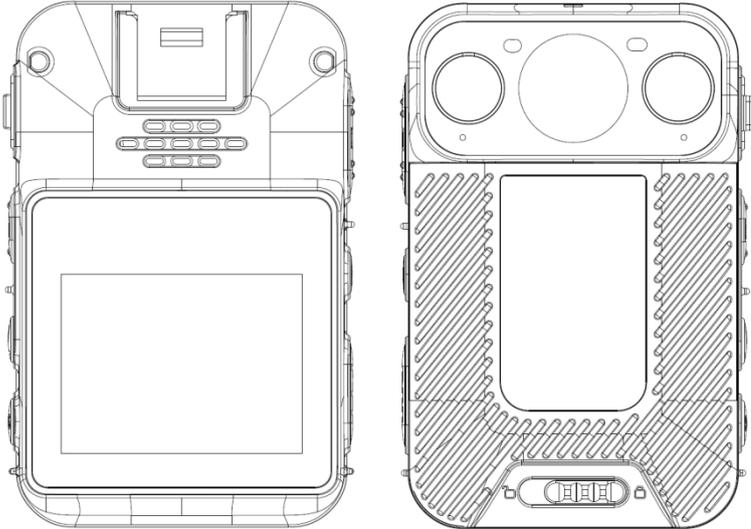


Figure 2-2 Front and rear panels (2)

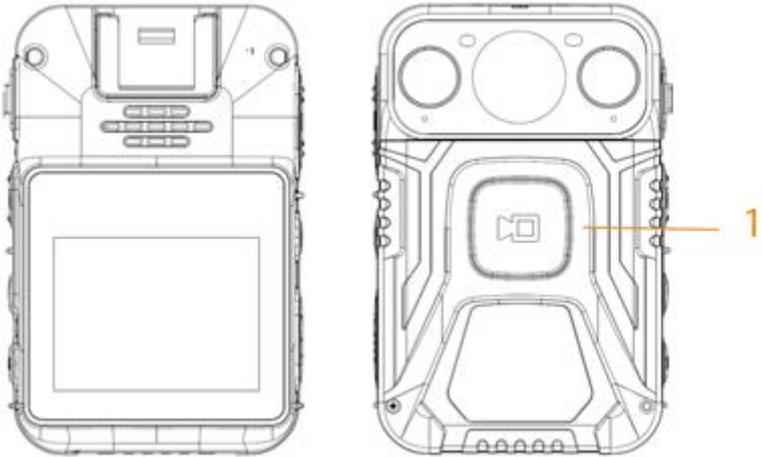


Figure 2-3 Sides (1)

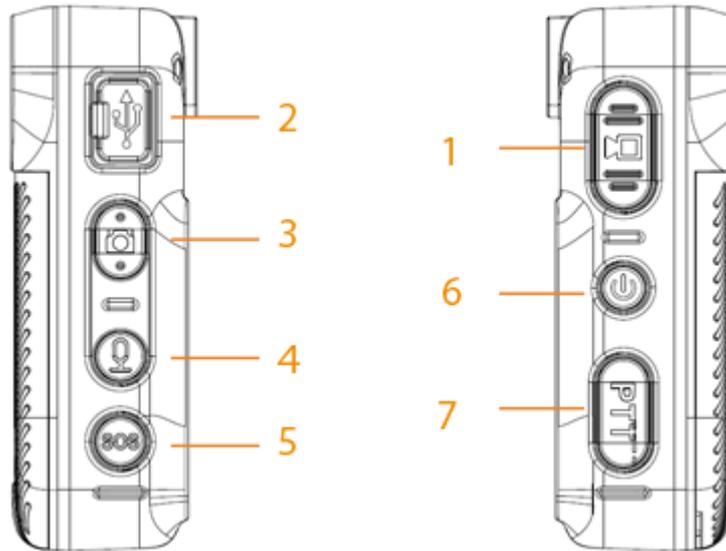


Figure 2-4 Sides (2)

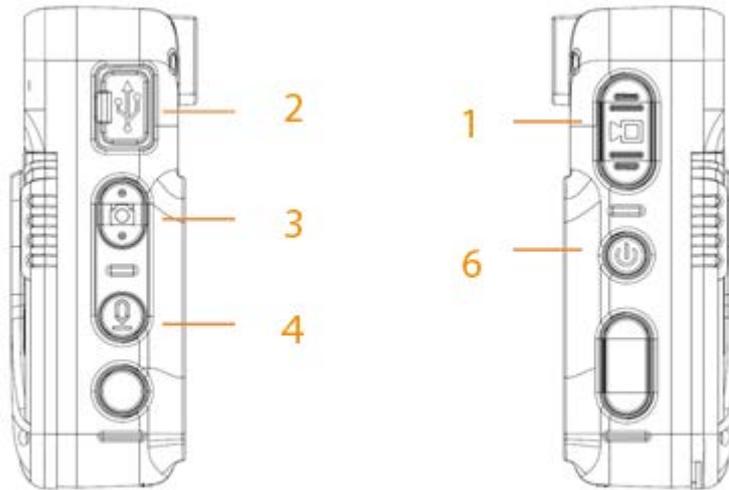


Table 2-1 Structure introduction

No.	Name	No.	Name
1	Record video	5	SOS button
2	USB port and power input	6	Power button
3	Capture button	7	Voice talk
4	Record audio	—	—

2.2 Indicator Lights

The states of the indicator indicate different statuses of the Device.



For the model that does not support network connection, platform is not available. The following indicator behaviors are for reference only.

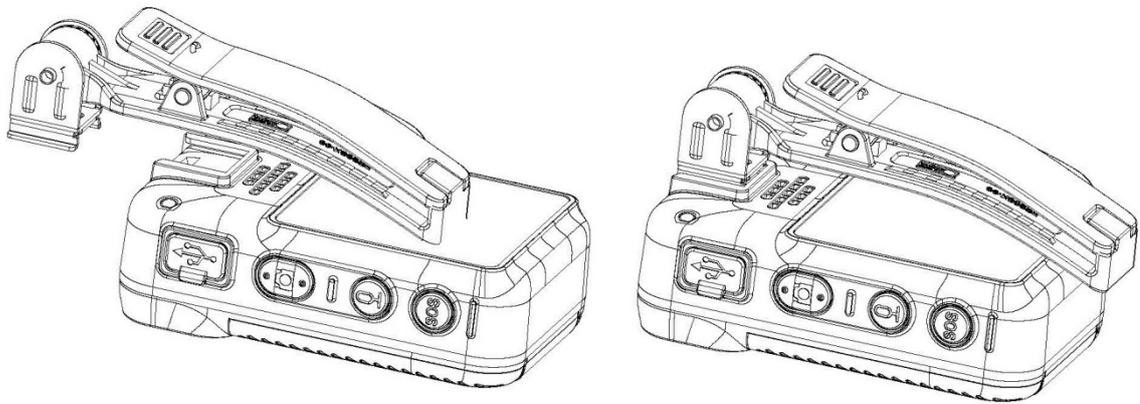
Table 2-2 Indicator lights

Working Status	Indicator Light	Working Status	Indicator Light
Standby	Solid green.	Recording audio	Flashes yellow.
Standby (battery level ≤ 5%)	Solid red.	Charging	Solid red.
Recording video	Flashes red.	Battery fully charged	Solid green.
Snapshot	Flashes red.	Platform stream pulling	Flashes blue.

2.3 Installing Shoulder Clip

Slide the shoulder clip down.

Figure 2-1 Install shoulder clip



3 Basic Operation

3.1 Starting/Shutting down

Press  on right side to start, shut down, restart or let the Device sleep.

- When the Device is shut down, press and hold  to start the Device.
- When the Device is running, press and hold , and then tap **Power off** to shut down the Device.
- When Device is running, press and hold , and then tap **Restart** to restart the Device.
- When the Device is running, press and hold  for 10 s to shut down the Device forcibly.
- When Device is running, press  to let the Device sleep; press again to activate the Device.

3.2 Initialization

For the first-time use, set device login password and at least three security questions. If you forget the password, click **Forgot Password**, and then answer the security questions to reset login password.



- Password resetting function is only available for admin user.
- Password resetting will delete the pattern lock. You need to set it again after resetting password.

Step 1 When the Device is shut down, press and hold  to start the Device.

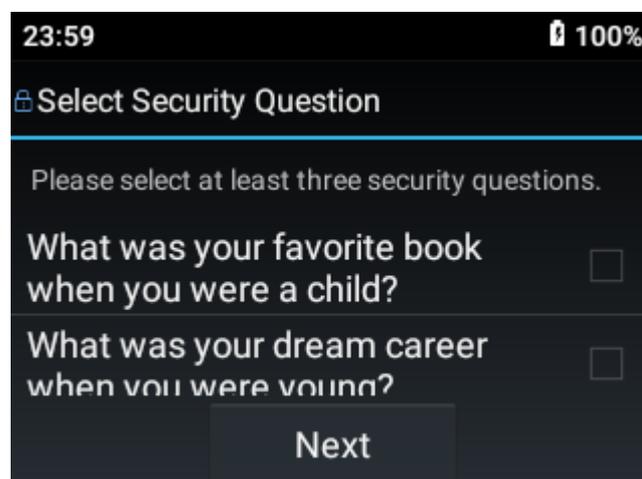
Step 2 Select a language and the checkbox of software license agreement, and then tap **Next**.

Step 3 Select time zone.

Step 4 Enter the new password and then confirm.

Step 5 Tap **Security Questions** to set security questions.

Figure 3-1 Select security question



Step 6 Select at least three security questions and then tap **Next**.

- Step 7 Enter the answers and then tap **Save**.
- Step 8 On the **Password Setting** screen, tap **Finish**.
- Step 9 Follow the on-screen instructions to learn gestures.
The Device is initialized successfully.

3.3 Home Screen

On the home screen, you can view the notification bar and function icons.

- The notification bar displays message, working status, and operator status. Swipe down to view time and date, and select the white light or IR light.
- Swipe left or right on the home screen to switch the screen.

3.4 User Management

3.4.1 Changing Password

We recommend you change the password regularly to enhance the device security.

- Step 1 On the home screen, tap .
- Step 2 Select the account whose password you want to change, and then tap **Change the password**.
- Step 3 Enter the old password, new password and confirm password.
The password must contain two character types (number, uppercase letters, and lowercase letters).
- Step 4 Set the password validity period.
- Step 5 Tap **OK**.

3.4.2 Setting Pattern Lock

- Step 1 On the home screen, tap .
- Step 2 Select the account whose password you want to change, and then tap **Pattern Lock**.
- Step 3 Enter the login password.
- Step 4 Draw the pattern lock.
- A pattern lock must contain at least 4 points.
 - If you have configured the pattern lock, you can tap to turn off the pattern lock.
 - After you set the pattern lock, the pattern lock will be required on the login screen by default. If you have not set pattern lock, password is required on the login screen by default.

3.5 Audio Recording

3.5.1 Recording Audio

Press  on any screen to record audio, or tap  on the home screen, and then tap 

Figure 3-2 Record audio

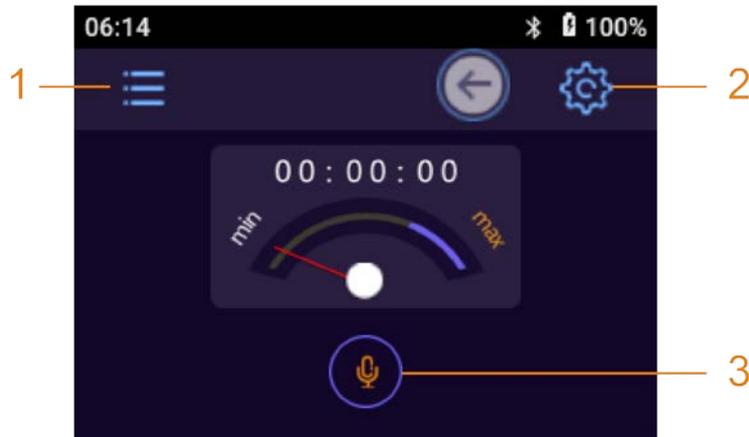


Table 3-1 Audio recording functions

No.	Function
1	Tap the icon and then enter password to view and manage audio files.
2	Tap the icon to set audio format and file format. <ul style="list-style-type: none"> ● Audio format: AAC and G.711A. ● File type: dav and aac.  During recording audio process, icon 1 and 2 are hidden.
3	Tap the icon, the Device begins recording audio. Tap  , the Device stops recording audio. System prompts the audio recording process is ended and file is saved.

3.5.2 One Press to Record Audio

When the Device is sleeping, press  to begin recording audio. Press  again to stop recording audio.

3.6 Video Recording

3.6.1 Recording Video

- To start recording, tap  on the home screen, tap  to start recording video and then tap  again to stop recording.
- Press  to start recording video, and press  again to stop recording.

Figure 3-3 Record video

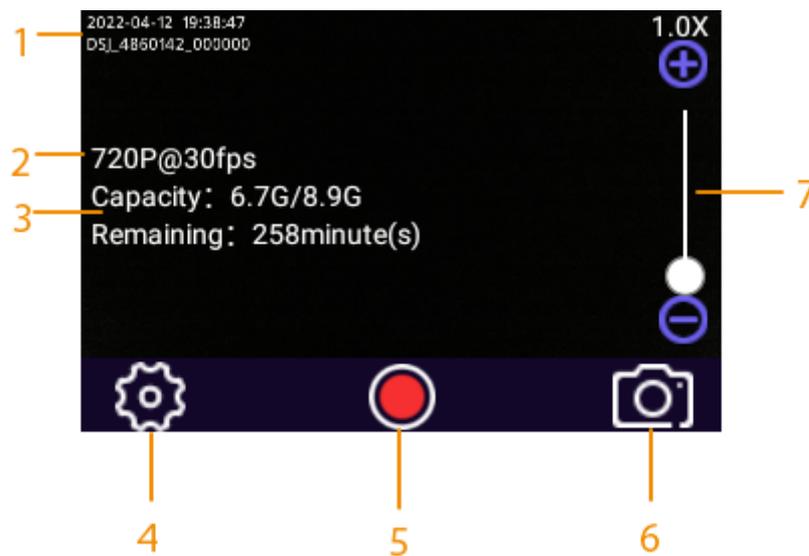


Table 3-2 Video recording functions

No.	Description
1	<p>Date, time, serial number, police officer number, GPS information, and custom information.</p> <p></p> <ul style="list-style-type: none"> To show GPS information, make sure that location service and GPS display are enabled. Select  > Network > Location or  > Location > Location Service to enable positioning; select  > Device > Camera Settings > Overlay > GPS OSD to enable GPS display. To display the custom information, connect the Device to MPT Manager to configure the custom OSD information, and then enable custom information display in  > Device > Camera Settings > Overlay.
2	<p>Video quality.</p> <p></p> <p>Shows picture resolution when the Device is in capturing mode.</p>

No.	Description
3	<p>Remaining capacity/total capacity, and remaining recording time.</p>  <ul style="list-style-type: none"> • The remaining recording time varies with video quality. • Shows the remaining capacity/total capacity in capturing mode, and the remaining number of pictures that you can take.
4	Camera settings.
5	<ul style="list-style-type: none"> • When the Device is in recording mode, tap  to start recording video and then tap  to stop. • When the Device is in capturing mode, tap  to take a picture.
6	Tap to switch between recording mode and capturing mode.
7	Tap the screen to display the zoom bar. The bar can be zoomed at 1.0 to 8.0 times by dragging the zoom bar.

3.6.2 One Press to Record a Video

When the Device is sleeping, press  to start recording video. The Device prompts "Start recording video" and the login screen is displayed with a recording icon in the notification bar.

Press  again to stop recording video, and you can hear a sound prompt "Stop recording video".

3.6.3 Focusing

On the live view screen or during recording, tap the screen, and then a focus bar displays. Drag the focus bar to zoom in or out the video at X1.0 to X8.0.

3.6.4 Marking Important Video

Press and hold  during recording, and a yellow mark ★ will appear at the upper-right corner of the screen, which means the video is marked as an important file. Tap  to view files. The important files are marked with ★, and their names end with _IMP.

Figure 3-4 Mark important video



3.7 Pictures

3.7.1 Taking Picture

On the live view screen, press  or tap . The working indicator light flashes and system prompts success.

3.7.2 One Press to Take a Picture

When the Device is sleeping, press  to take a picture. If you have configured continuous shot, you can press  once to take the defined number of pictures.

3.8 Switching between Video and Audio Recording



With **Record Video&Audio** turned off by default in  > **Device** > **Camera Settings**, you can switch between video and audio recording with a simple press..

- When the Device is recording video, press , or tap  on the home screen and then tap  to switch to audio recording.
- When the Device is recording audio, press , or tap  on the home screen and then tap  to switch to video recording.

3.9 Recording Audio & Video at the Same Time



Make sure that you have enabled **Record Video&Audio** in  > **Device > Camera Settings**.

- When the Device is recording video, press  or tap  on the home screen and then tap  to start recording audio at the same time.
- When the Device is recording audio, press  or tap  on the home screen and then tap  to start recording video at the same time.

3.10 IR Light

IR light can be used to assist in shooting at night or with low illuminance.

Swipe down the notification bar, and then tap  to enable the IR light, and the icon turns to .

Tap  to turn off the IR lights.



The IR light cannot be enabled when the battery level is lower than 5%.

3.11 White Light

When shooting in dark, you can use white light to illuminate.

Swipe down the notification bar, and then tap  to enable the white light, and the icon turns to

. Tap  to turn off the white light.



The white light cannot be enabled when the battery level is lower than 5%.

3.12 Data Transmission

The Device supports using MPT Manager and data acquisition station to upload data.



For the model that does not support network connection, data transmission to the platform is not available.

- After starting the Device, use USB cable to connect the Device to the PC, start MPT Manager, enter password, and then confirm to download the data.
- Start the Device, and connect it to a legal data acquisition station through the USB cable. For the first-time use, you need to enter the password, and then the data on the Device can be uploaded

to data acquisition station. If the device information is not displayed on the interface, unplug USB and plug it again.

4 SIM Card and Battery Installation

The product supports 5 VDC/2 A power recharge. When the battery power is low, recharge it in time.

- When the Device has the main battery, the interface displays main battery percentage.
- If you remove the main battery, the Device will shut down.
- After installing the main battery, start the Device manually.



- Recharge the battery if the Device is not in use for a long time.
- The system triggers low battery alarm when the device battery level is $\leq 5\%$.
- The Device automatically shuts down when the power runs out.
- If the Device will not be used for a week or more, charge it to 60%, take the battery out of the Device, and store it in a clean, dry and ventilated room with ambient temperature of $20\pm 5\text{ }^{\circ}\text{C}$.
- Charge the battery at least once every three months during storage.
- The battery is a consumable accessory. You are recommended to replace it after one year of use.

4.1 Installing SIM Card

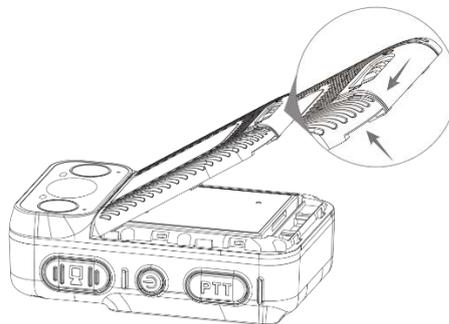


- For the model that does not support network connection, you cannot install the SIM card.
- SIM card and the peripheral accessories do not support hot swapping. The card becomes activated after the Device restarts.
- Shut down the Device before installing the SIM card; otherwise the Device might be damaged.

Step 1 Remove the battery cover.

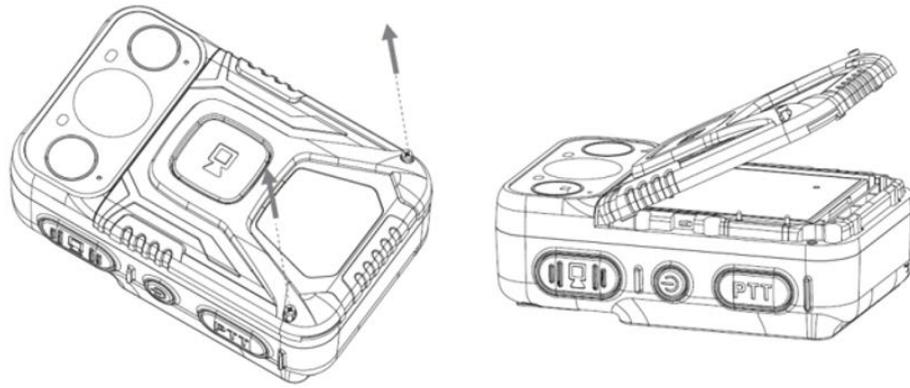
- For the model without a recording button on the back, move the slider on the back of the Device left, and then use your thumb to hold the groove on the lower-left corner of the Device to remove the battery cover.

Figure 4-1 Remove the battery cover (1)



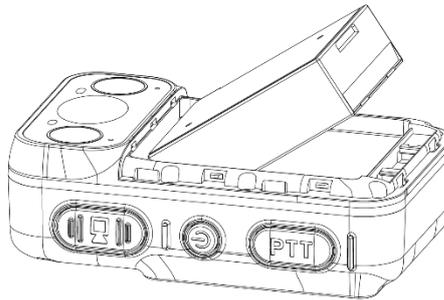
- For the model with a recording button on the back, loosen the screws on the back, and then use your thumb to hold the groove on the lower-left corner of the Device to remove the battery cover.

Figure 4-2 Remove the battery cover (2)



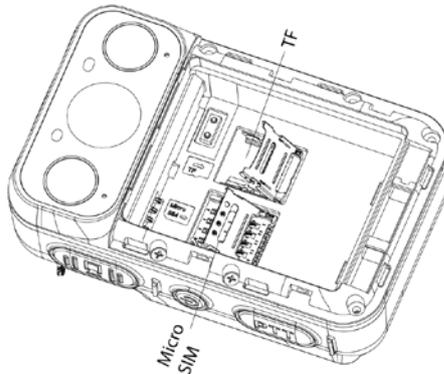
Step 2 Take out the main battery.

Figure 4-3 Take out main battery



Step 3 Make sure that the metal side of the SIM card metal side is facing down. Push the SIM card to the tray until SIM card is firm.

Figure 4-4 Install SIM card



Step 4 Install the main battery.



Make sure that the SIM card installation is complete before installing the main battery in case the battery may jam the tray and result in tray damage.

Step 5 Install the battery cover.

- For the model without a recording button on the back, re-attach the battery cover, and then move the slider on the back of the Device right.
- For the model with a recording button on the back, re-attach the battery cover, and then tighten the screws on the back.

4.2 Replacing Main Battery

For details, see Step 1, Step 2, Step 4 and Step 5 in "4.1 Installing SIM Card".

Appendix 1 Cybersecurity Recommendations

Mandatory actions to be taken for basic device network security:

1. Use Strong Passwords

Please refer to the following suggestions to set passwords:

- The length should not be less than 8 characters.
- Include at least two types of characters; character types include upper and lower case letters, numbers and symbols.
- Do not contain the account name or the account name in reverse order.
- Do not use continuous characters, such as 123, abc, etc.
- Do not use overlapped characters, such as 111, aaa, etc.

2. Update Firmware and Client Software in Time

- According to the standard procedure in Tech-industry, we recommend to keep your device (such as NVR, DVR, IP camera, etc.) firmware up-to-date to ensure the system is equipped with the latest security patches and fixes. When the device is connected to the public network, it is recommended to enable the "auto-check for updates" function to obtain timely information of firmware updates released by the manufacturer.
- We suggest that you download and use the latest version of client software.

"Nice to have" recommendations to improve your device network security:

1. Physical Protection

We suggest that you perform physical protection to device, especially storage devices. For example, place the device in a special computer room and cabinet, and implement well-done access control permission and key management to prevent unauthorized personnel from carrying out physical contacts such as damaging hardware, unauthorized connection of removable device (such as USB flash disk, serial port), etc.

2. Change Passwords Regularly

We suggest that you change passwords regularly to reduce the risk of being guessed or cracked.

3. Set and Update Passwords Reset Information Timely

The device supports password reset function. Please set up related information for password reset in time, including the end user's mailbox and password protection questions. If the information changes, please modify it in time. When setting password protection questions, it is suggested not to use those that can be easily guessed.

4. Enable Account Lock

The account lock feature is enabled by default, and we recommend you to keep it on to guarantee the account security. If an attacker attempts to log in with the wrong password several times, the corresponding account and the source IP address will be locked.

5. Change Default HTTP and Other Service Ports

We suggest you to change default HTTP and other service ports into any set of numbers between 1024–65535, reducing the risk of outsiders being able to guess which ports you are using.

6. Enable HTTPS

We suggest you to enable HTTPS, so that you visit Web service through a secure communication channel.

7. MAC Address Binding

We recommend you to bind the IP and MAC address of the gateway to the device, thus reducing

the risk of ARP spoofing.

8. Assign Accounts and Privileges Reasonably

According to business and management requirements, reasonably add users and assign a minimum set of permissions to them.

9. Turn off Unnecessary Services and Choose Secure Modes

If not needed, it is recommended to turn off some services such as SNMP, SMTP, UPnP, etc., to reduce risks.

If necessary, it is highly recommended that you use safe modes, including but not limited to the following services:

- SNMP: Choose SNMP v3, and set up strong encryption passwords and authentication passwords.
- SMTP: Choose TLS to access mailbox server.
- FTP: Choose SFTP, and set up strong passwords.
- AP hotspot: Choose WPA2-PSK encryption mode, and set up strong passwords.

10. Audio and Video Encrypted Transmission

If your audio and video data contents are very important or sensitive, we recommend that you use encrypted transmission function, to reduce the risk of audio and video data being stolen during transmission.

Reminder: encrypted transmission will cause some loss in transmission efficiency.

11. Secure Auditing

- Check online users: we suggest that you check online users regularly to see if the device is logged in without authorization.
- Check device log: By viewing the logs, you can know the IP addresses that were used to log in to your devices and their key operations.

12. Network Log

Due to the limited storage capacity of the device, the stored log is limited. If you need to save the log for a long time, it is recommended that you enable the network log function to ensure that the critical logs are synchronized to the network log server for tracing.

13. Construct a Safe Network Environment

In order to better ensure the safety of device and reduce potential cyber risks, we recommend:

- Turn off the port mapping function of the router to avoid direct access to the intranet devices from external network.
- The network should be partitioned and isolated according to the actual network needs. If there are no communication requirements between two sub networks, it is suggested to use VLAN, network GAP and other technologies to partition the network, so as to achieve the network isolation effect.
- Establish the 802.1x access authentication system to reduce the risk of unauthorized access to private networks.
- Enable IP/MAC address filtering function to limit the range of hosts allowed to access the device.