

Body Camera

Quick Start Guide








Foreword

General

This manual introduces the functions and operations of the Mobile Portable Terminal (hereinafter referred to as "the Device").

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, lower performance, or unpredictable result.
 TIPS	Provides methods to help you solve a problem or save you time.
 NOTE	Provides additional information as the emphasis and supplement to the text.

Revision History

Version	Revision Content	Release Time
V1.0.1	Deleted the snapshot of main interface.	July 2021
V1.0.0	First release.	November 2020

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

This section introduces content covering the proper handling of the Device, hazard prevention, and prevention of property damage. Read carefully before using the Device, comply with the guidelines when using it, and keep the manual safe for future reference.

Operation Requirements

- Do not place or install the Device in a place exposed to sunlight or near the heat source.
- Operate the device within the rated range of power input and output.
- Do not disassemble the Device.
- Transport, use and store the Device under the allowed humidity and temperature conditions.

Electrical Safety

- Use the battery of specified manufacturer; otherwise there might result in explosion. When replacing battery, make sure the same type is used. Improper battery use might result in fire, explosion, or inflammation.
- Follow the instructions to dispose of the used battery.
- Use the recommended power cables in the region and conform to the rated power specification.
- Use the power adapter provided with the Device; otherwise, it might result in people injury and device damage.
- The power supply must conform to the requirements of ES1 in IEC 62368-1 standard and be no higher than PS2. Note that the power supply requirements are subject to the device label.
- Connect the device (I-type structure) to the power socket with protective earthing.
- The appliance coupler is a disconnection device. When using the coupler, keep the angle for easy operation.

General Precautions for Battery

- The Device and battery must be used within the specified temperature and humidity range; otherwise the Terminal and battery might be damaged.
- Charge with the provided power adapter or acquisition device. Mixed use might cause damage to the battery.
- If any abnormality is found in use, such as serious heat, bulge, deformation and strange smell, stop using the battery immediately.
- Do not store the battery with other metals to avoid metal objects touching the battery anode and cathode, thus resulting in short circuit.
- Do not decompose the battery in any way.
- Do not charge the battery continuously for more than 24 hours.

Battery Maintenance

- 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 $20\pm5^{\circ}\text{C}$.
- Charge the battery once every four months during storage.
- The battery is a consumable accessory. It is recommended to replace it after one year of use.

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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

Figure 2-1 Front and rear panels

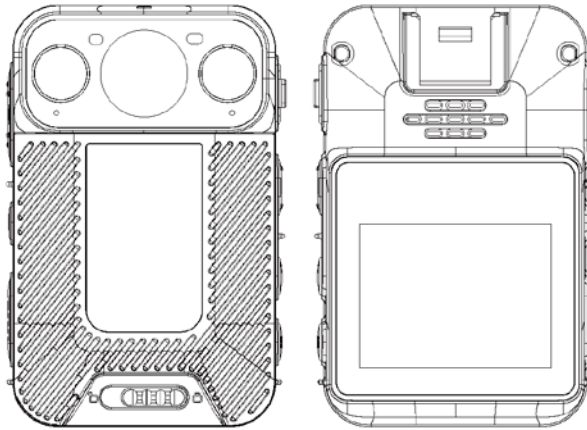


Figure 2-2 Sides

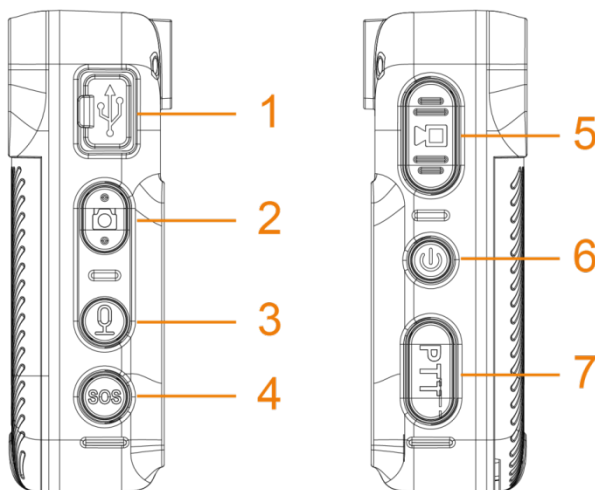


Table 2-1 Structure introduction

No.	Name	No.	Name
1	USB port/Power input	5	Reocrd video
2	Capture button	6	Power button
3	Record audio	7	Voice talk
4	Alarm	—	—

2.2 Indicator Lights

Table 2-2 Indicator lights

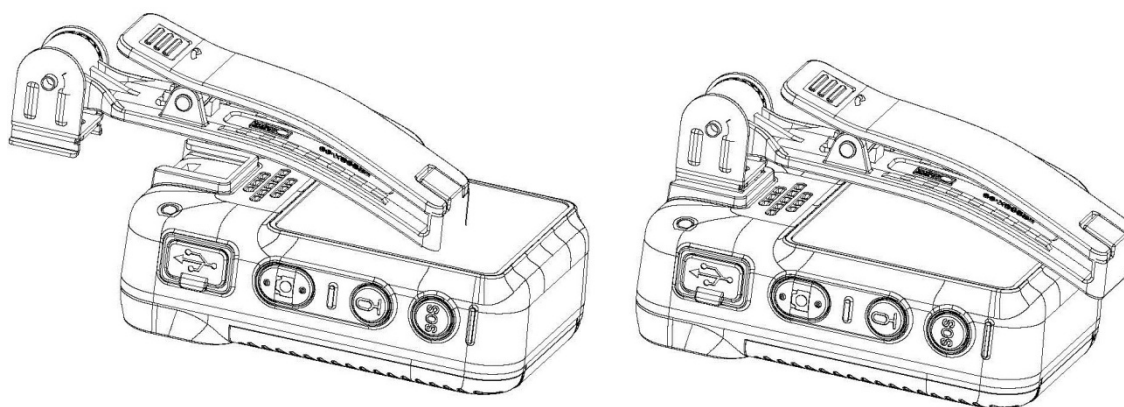
Working Status	Indicator Light	Working Status	Indicator Light
Standby	Green light is on.	Recording audio	Yellow light flashes.

Standby (voltage \leq 5%)	Red light is on.	Recharging	Red light is on.
Recording video	Red light flashes.	Battery is full when recharging	Green light is on.
Snapshot	Red light flashes.	Platform is pulling stream	Blue light flashes.

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 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 restart 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.



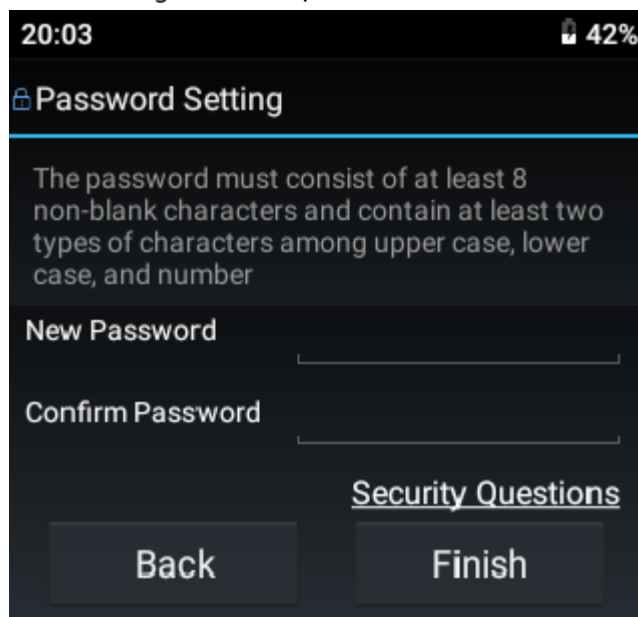
Password resetting function is only available for admin user.

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

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

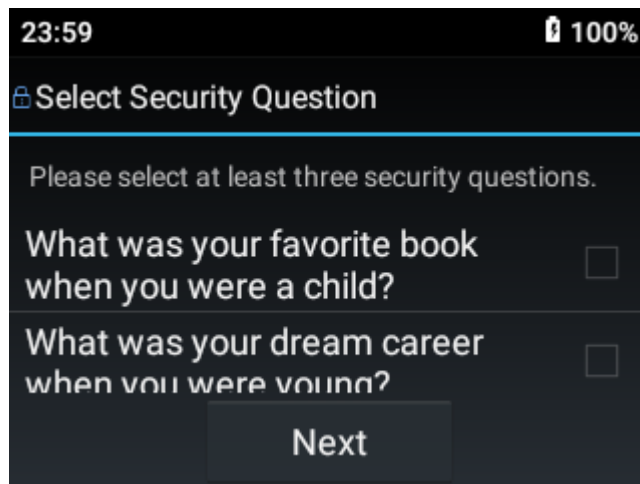
Step 3 Enter the new password and then confirm.

Figure 3-1 Set password



Step 4 Tap **Security Questions** to set security questions.

Figure 3-2 Select security question



Step 5 Select at least three security questions and then tap **Next**.

Step 6 Enter the answers and then tap **Save**.

Step 7 Tap **Finish**.

3.3 Main Interface

On the main interface, 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 the main interface left or right to turn the page.

3.4 Audio Recording

3.4.1 Recording Audio




Press  on any interface to record audio, or tap  on the main interface, and then tap .

Figure 3-3 Record audio

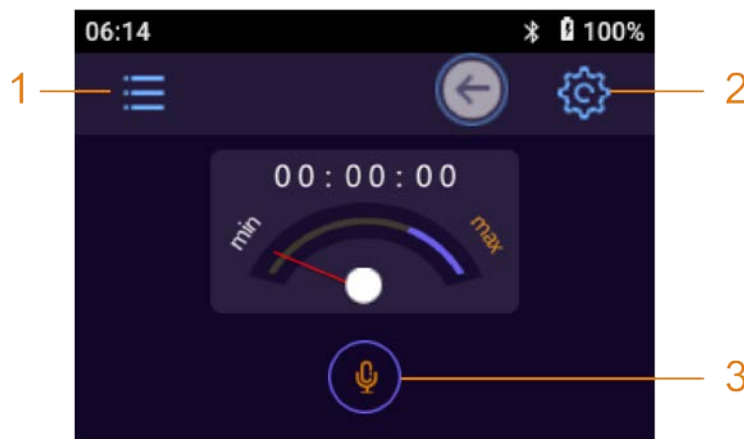






Table 3-1 Audio recording functions

No.	Function
1	Tap the icon and then enter password to go to file management interface to manage audio files.
2	<p>Tap the icon to set audio format and file format.</p> <ul style="list-style-type: none"> ● Audio format: AAC, G.711A, AMR. ● File format: dav, aac. <p></p> <ul style="list-style-type: none"> ● When the record file type is set to be MP4, the audio format AMR and G.711A are not supported. ● When the record file type is set to be aac, only AAC audio format is supported. ● 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.

3.4.2 One Press to Record Audio

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

3.5 Video Recording

3.5.1 Recording Video





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

Figure 3-4 Record video

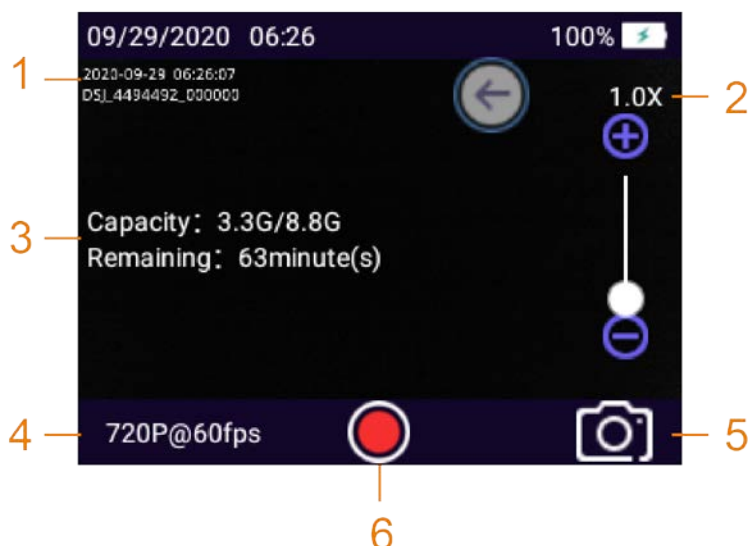











Table 3-2 Video recording functions

No.	Description
1	<p>Date, time, serial number, police officer number, GPS information, and custom information.</p>  <ul style="list-style-type: none"> To show GPS information, make sure that positioning and GPS display are enabled. To Tap Settings > Network > Location to enable positioning; tap Settings > Device > OSD > GPS OSD to enable GPS display. To display the custom information, you need to connect the Device to MPT Manager, and then enable display in OSD configuration interface.
2	<p>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.</p>
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	<p>Video quality.</p>  <p>Shows picture resolution when the Device is in capturing mode.</p>
5	<p>Tap to switch to the capturing mode.</p>  <p>When the Device is in capturing mode, tap  to take a picture.</p>
6	<p>Start recording. Tap again to stop recording.</p>  <p>When the Device is in capturing mode, tap  to switch to recording mode.</p>

3.5.2 One Press to Record Video

When the Device is sleeping, press , the login interface is display, and you can hear a sound prompt "Start recording video". The recording icon is display in the notification bar, and the Device starts to recording video.

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

3.5.3 Focusing

On the live view interface 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.

3.5.4 Marking Important Video


Press and hold  during recording, and a yellow mark ★ will be displayed at the upper-right corner of the screen to mark the video as an important file. And at the file management interface, the important files are marked with stars, and the file names are end with _IMP.

Figure 3-5 Mark important video




3.6 Pictures

3.6.1 Taking Picture

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



3.6.2 One Press to Take a Picture

When the Device is sleeping, press  to take a picture.

3.7 Switching between Video and Audio Recording





Make sure that you have disabled **Record Video&Audio**. If not, go to **Settings > Device > Video**, and then disable **Record Video&Audio**.

- When the Device is recording video, you can press  to switch to audio recording.
- When the Device is recording audio, you can press  to switch to video recording.

3.8 Recording Audio & Video at the Same Time




Make sure that you have enabled **Record Video&Audio**. If not, go to **Settings > Device > Video**, and then enable **Record Video&Audio**.

- When the Device is recording video, you can press  to start recording audio at the same time.
- When the Device is recording audio, you can press  to start recording video at the same time.

3.9 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.

3.10 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% low.

3.11 Data Transmission

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



After the Device begins USB communication, all wireless function will be disabled.

- 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 voltage alarm when the device voltage 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 $20\pm 5^{\circ}\text{C}$.
- Charge the battery once every four months during storage.
- The battery is a consumable accessory. You are recommended to replace it after one year of use.

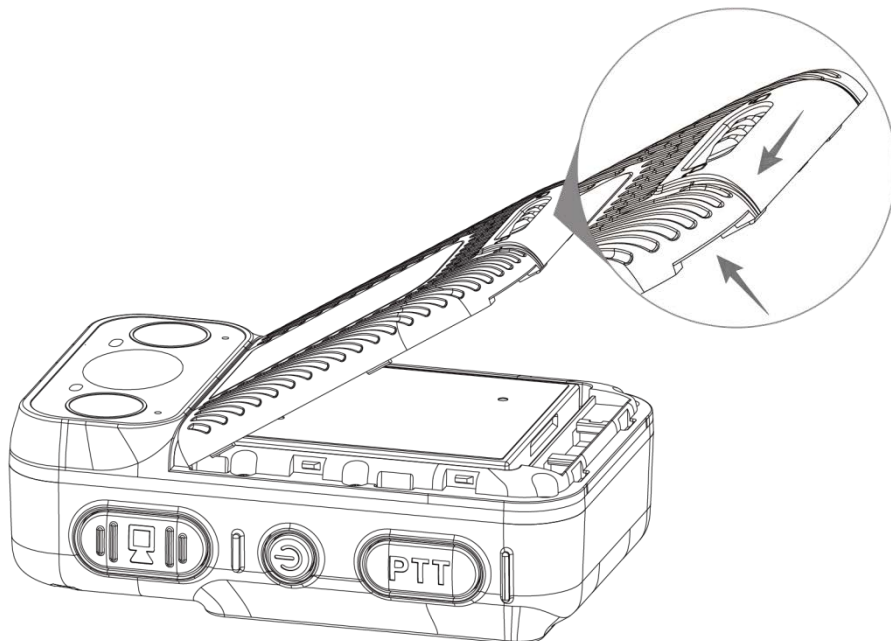
4.1 Installing SIM Card



- SIM card and then 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.

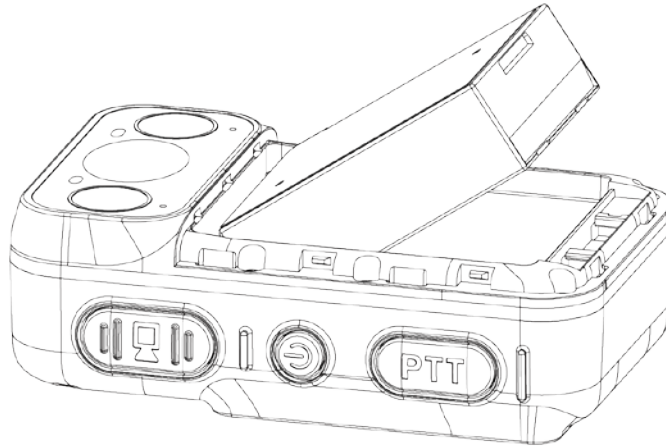
Step 1 Move the slider on the back of the Device left, and use your thumb to hold the tray on the left side of the Device.

Figure 4-1 Remove the battery cover



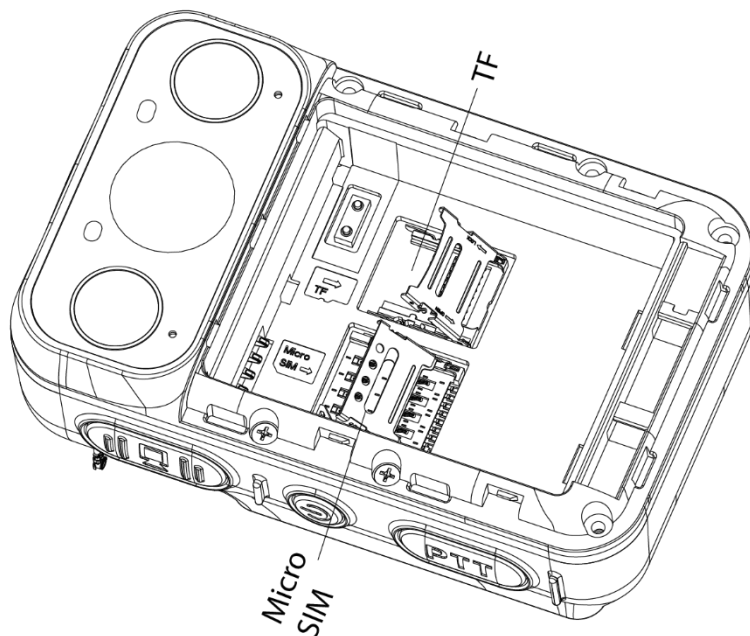
Step 2 Take out the main battery.

Figure 4-2 Take out main battery



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

Figure 4-3 Installing 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.

4.2 Replace Main Battery

For details, see "4.1 Installing SIM Card."

Appendix 1 Cybersecurity Recommendations

Cybersecurity is more than just a buzzword: it's something that pertains to every device that is connected to the internet. IP video surveillance is not immune to cyber risks, but taking basic steps toward protecting and strengthening networks and networked appliances will make them less susceptible to attacks. Below are some tips and recommendations on how to create a more secured security system.

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. Disable 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:

- Disable 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.