

# **Body Camera**

**User Manual** 

# Initiatives on the Use of Video Products

## Thank you for choosing Hikvision products.

Technology affects every aspect of our life. As a high-tech company, we are increasingly aware of the role technology plays in improving business efficiency and quality of life, but at the same time, the potential harm of its improper usage. For example, video products are capable of recording real, complete and clear images. This provides a high value in retrospect and preserving real-time facts. However, it may also result in the infringement of a third party's legitimate rights and interests if improper distribution, use and/or processing of video data takes place. With the philosophy of "Technology for the Good", Hikvision requests that every end user of video technology and video products shall comply with all the applicable laws and regulations, as well as ethical customs, aiming to jointly create a better community.

## Please read the following initiatives carefully:

- Everyone has a reasonable expectation of privacy, and the installation of video products should not be in conflict with this reasonable expectation. Therefore, a warning notice shall be given in a reasonable and effective manner and clarify the monitoring range, when installing video products in public areas. For non-public areas, a third party's rights and interests shall be evaluated when installing video products, including but not limited to, installing video products only after obtaining the consent of the stakeholders, and not installing highly-invisible video products.
- The purpose of video products is to record real activities within a specific time and space and under specific conditions. Therefore, every user shall first reasonably define his/her own rights in such specific scope, in order to avoid infringing on a third party's portraits, privacy or other legitimate rights.
- During the use of video products, video image data derived from real scenes will continue to be
  generated, including a large amount of biological data (such as facial images), and the data could
  be further applied or reprocessed. Video products themselves could not distinguish good from
  bad regarding how to use the data based solely on the images captured by the video products.
  The result of data usage depends on the method and purpose of use of the data controllers.
  Therefore, data controllers shall not only comply with all the applicable laws and regulations and
  other normative requirements, but also respect international norms, social morality, good
  morals, common practices and other non-mandatory requirements, and respect individual
  privacy, portrait and other rights and interests.
- The rights, values and other demands of various stakeholders should always be considered when processing video data that is continuously generated by video products. In this regard, product security and data security are extremely crucial. Therefore, every end user and data controller, shall undertake all reasonable and necessary measures to ensure data security and avoid data leakage, improper disclosure and improper use, including but not limited to, setting up access

control, selecting a suitable network environment (the Internet or Intranet) where video products are connected, establishing and constantly optimizing network security.

 Video products have made great contributions to the improvement of social security around the world, and we believe that these products will also play an active role in more aspects of social life. Any abuse of video products in violation of human rights or leading to criminal activities are contrary to the original intent of technological innovation and product development. Therefore, each user shall establish an evaluation and tracking mechanism of their product application to ensure that every product is used in a proper and reasonable manner and with good faith.

# Legal Information

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## About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the Hikvision website (<u>https://</u>

## www.hikvision.com/).

Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

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# **Regulatory Information**

## **FCC Information**

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: 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.

## **FCC Conditions**

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.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

## **EU Conformity Statement**

- **CE** This product and if applicable the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the RE Directive 2014/53/EU, the EMC Directive 2014/30/EU, the LVD Directive 2014/35/EU, the RoHS Directive 2011/65/EU.
- 2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of

equivalent new equipment, or dispose of it at designated collection points. For more information see: <u>www.recyclethis.info</u>

X

2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: <u>www.recyclethis.info</u>

## Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (B)/NMB-3(B) standards requirements.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

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

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- 1. l'appareil ne doit pas produire de brouillage, et
- 2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

# **Symbol Conventions**

The symbols that may be found in this document are defined as follows.

Symbol	Description
Danger	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
Caution	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
<b>i</b> Note	Provides additional information to emphasize or supplement important points of the main text.

# Safety Instruction

## Laws and Regulations

Use of the product must be in strict compliance with the local laws and regulations. Please shut down the device in prohibited area.

## **Power Supply**

- Use of the product must be in strict compliance with the local electrical safety regulations.
- Use the power adapter provided by qualified manufacturer. Refer to the product specification for detailed power requirements.
- It is recommended to provide independent power adapter for each device as adapter overload may cause over-heating or a fire hazard.
- Make sure that the power has been disconnected before you wire, install, or disassemble the device in the authorized way according to the description in the manual.
- To avoid electric shock, DO NOT directly touch exposed contacts and components once the device is powered up.
- DO NOT use damaged power supply devices (e.g., cable, power adapter, etc.) to avoid electric shock, fire hazard, and explosion.
- DO NOT directly cut the power supply to shut down the device. Please shut down the device normally and then unplug the power cord to avoid data loss.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- Make sure the power supply has been disconnected if the power adapter is idle.
- Connect to earth before connecting to the power supply.

## Transportation, Use, and Storage

- To avoid heat accumulation, good ventilation is required for a proper operating environment.
- Store the device in dry, well-ventilated, corrosive-gas-free, no direct sunlight, and no heating source environment.
- Avoid fire, water, and explosive environment when using the device.
- Install the device in such a way that lightning strikes can be avoided. Provide a surge suppressor at the inlet opening of the equipment under special conditions such as the mountain top, iron tower, and forest.
- Keep the device away from magnetic interference.
- Avoid device installation on vibratory surfaces or places. Failure to comply with this may cause device damage.
- DO NOT touch the heat dissipation component to avoid burns.
- DO NOT expose the device to extremely hot, cold, or humidity environments. For temperature and humidity requirements, see device specification.
- No naked flame sources, such as lighted candles, should be placed on the equipment.
- DO NOT touch the sharp edges or corners.

- To prevent possible hearing damage, DO NOT listen at high volume levels for long periods.
- The device can only be safely used in the region below 2,000 meters above the sea level.

## Maintenance

- If smoke, odor, or noise arises from the device, immediately turn off the power, unplug the power cable, and contact the service center.
- If the device cannot work properly, contact the store you purchased it or the nearest service center. DO NOT disassemble or modify the device in the unauthorized way (For the problems caused by unauthorized modification or maintenance, the company shall not take any responsibility).
- Keep all packaging after unpacking them for future use. In case of any failure occurred, you need to return the device to the factory with the original packaging. Transportation without the original packaging may result in damage to the device and the company shall not take any responsibility.

## Network

- Please enforce the protection for the personal information and the data security as the device may be confronted with the network security problems when it is connected to the Internet. Contact us if network security risks occur.
- Please understand that you have the responsibility to configure all the passwords and other security settings about the device, and keep your user name and password.

## Lens

- DO NOT touch the lens with fingers directly in case the acidic sweat of the fingers erodes the surface coating of the lens.
- DO NOT aim the lens at the strong light such as sun or incandescent lamp. The strong light can cause fatal damage to the device.

## Screen

Clean the screen with soft and dry cloth or other substitutes to wipe the interior and exterior surface. DO NOT use alkaline detergents. Protect the screen from scratches.

## Battery

- DO NOT charge the battery continuously more than one week. Overcharging may shorten the battery life.
- Battery will discharge gradually if it is not used for a long time. It must be recharged before using.
- If the device contains dismountable battery, store the device and battery separately if it is not used.
- The battery must be charged and discharged every three months if it is not used, and recharged to 60% to 70% power percentage to store.
- The scrapped battery should be discarded in compliance with the local laws and regulations. If there are no corresponding laws or regulations, throw it in a hazardous trash can.

- DO NOT pierce the battery or shorten the electrodes, or it may cause explosion or fire hazard.
- DO NOT dispose of the battery into fire or a hot oven, or mechanically crush or cut the battery, which may result in an explosion.
- CAUTION: Please use the specific battery supported by the device, or it may cause explosion. If the battery is damaged and needs to be changed, contact the device manufacturer or local distributor.
- If the device contains button battery, keep it far away from children.
- DO NOT expose the battery pack or battery combination to sunlight, fire, or similar overheated environment. DO NOT leave the battery in an extremely high temperature surrounding environment or subject the battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.
- Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.

## Data

DO NOT disconnect the power during formatting, uploading, and downloading. Or files may be damaged.

#### Laser

 $\mathbb{A}^{\mathbb{R}}$ : The laser radiation emitted from the device can cause eye injuries, burning of skin, or inflammable substances. Before enabling the laser, make sure no human or inflammable substances are in front.

# Contents

Chapter 1 Product Introduction	1
1.1 Introduction	1
1.2 Key Feature	1
1.3 Default Information	1
Chapter 2 Startup and Main Menu	3
2.1 Login	3
2.2 Startup	3
2.3 Main Menu	5
Chapter 3 Storage, Playback, and Backup	6
3.1 Storage	6
3.1.1 Release Storage Capacity	6
3.1.2 Record	6
3.1.3 Tape	6
3.1.4 Capture	7
3.2 Playback	7
3.3 Backup	7
3.4 Set Tag	8
3.4.1 Set Tag During Recording	8
3.4.2 Set Tag After Recording, Taping, or Capturing	8
Chapter 4 Alarm Settings 1	10
4.1 Set Auto Alarm 1	10
4.2 Set Manual Alarm 1	10
Chapter 5 Network Settings 1	11
5.1 Dial 1	11
5.2 Connect to Wi-Fi 1	11
5.3 Connect to Bluetooth Headsets 1	12

5.4 Connect to Platform	3
5.4.1 Connect to EHome Platform 1	3
5.4.2 Connect to ISUP Platform 1	3
5.5 Upload to FTP 14	4
Chapter 6 Group Intercom 1	5
Chapter 7 System Settings 1	7
7.1 Set Positioning 1	7
7.2 Enable Indicator	7
7.3 Enable IR Light 1	7
7.4 Set System Sound 1	8
7.5 Set Screen Brightness 1	8
7.6 Set Voice Prompt 1	8
7.7 Set Encoding Parameters 1	9
7.7.1 Set Video Encoding Type 1	9
7.7.2 Set Video Stream Parameters 1	9
7.7.3 Set Network Stream Parameters 2	0
7.7.4 Set Audio Encoding Type 2	0
7.8 Set Capture Parameters 2	0
7.9 Set Multi-Line OSD 2	1
7.10 Set Pre-Record 2	1
7.11 Set Post-Record 2	1
7.12 Set Overwritten Record 2	1
7.13 Set Record once On	2
7.14 Set PTZ Control 2	2
7.15 Set Quick Charging Mode 2	2
7.16 Switch USB Mode 2	3
7.17 Set Read-Only USB Mode 2	3
Chapter 8 Maintenance 24	4

8	8.1 View System Information	24
8	8.2 View Device Information	24
8	8.3 View Battery Information	24
٤	8.4 Enable Password	24
٤	8.5 Edit Password	24
٤	8.6 Upgrade	25
٤	8.7 Export Debug Log	25
٤	8.8 Set Serial Port Debug	25
8	8.9 Set Satellite Time Synchronization	26
8	8.10 Restore Basic Settings	26
٤	8.11 Restore Factory Settings	26
8	8.12 Shut down and Sleep	27
	8.12.1 Shut down	27
	8.12.2 Shut down Forcedly	27
	8.12.3 Sleep Manually	27
	8.12.4 Sleep Automatically	27
	8.12.5 Wake up	27
Арр	endix A. Communication Matrix and Device Command	28

# **Chapter 1 Product Introduction**

## **1.1 Introduction**

Body camera (hereinafter referred to as device) highly integrates with record, taping, capture, positioning, etc. It is embedded with positioning module with high sensitivity to locate the occurring position of events accurately. It can record the process and condition of events completely via record, taping, and capture. You can also tag the important data for future search.

It is small and light, convenient to carry, and can be worn on the shoulder, satisfying the requirement of mobile duty and evidence record for single person. It is widely applicable to public security protection, city management, industry and commerce, etc.

## 1.2 Key Feature

- Supports record, taping, capture, etc. Capture is available during recording.
- Supports H.264/H.265 video encoding compression technology, and can save network transmission bandwidth and storage space.
- The recorded videos can be uploaded to the central video platform via mobile wireless communication.
- Embedded with positioning module with high sensitivity to locate the occurring position of events accurately. Supports GPS, Beidou, and GPS+Beidou. The location information can be uploaded to the command center in real time.
- Supports IR night vision. Even in the dark scene, the facial features of the persons in the scene can be recognized clearly.
- Supports group talk.
- Tri-proof design to support all-weather filed operation.
- Built-in battery with large capacity, supporting longer working hour.
- Supports mechanical stabilization.
- Small size, light weight, and convenient to carry.

## **i**Note

Functions vary with different models. The actual device prevails.

# 1.3 Default Information

The default information of the device is shown as below.

- Default user name (administrator): admin
- Default password: 123456

# Caution

For your data safety, change the device password in time.

# **Chapter 2 Startup and Main Menu**

# 2.1 Login

Multiple users issued by the dock station or the platform can log in to the device. The logged user can view all the videos, audios, and pictures of all the users.

## **Before You Start**

Set multiple users via the dock station or the platform. Refer to the user manual of the dock station or the platform for details.

## Steps

**1.** Start up the device to enter the login page.



Figure 2-1 Login Page

- 2. Select the user.
- **3. Optional:** If there are multiple users, you can enter the key words of the user name to search.

# **i**Note

You can search the user only when there are more than 20 users.

4. Enter the password of the user.

# 2.2 Startup

When the device is off, hold the startup/shutdown button on the device side to start it up. Then you will enter the following page.



### Figure 2-2 Startup Page

No.	Description
1	The TF card status.
	<b>i</b> Note
	If the TF card is abnormal, there will be an exclamation mark on the icon.
2	The available memory.
3	Platform connection status: If the device is not connected to the platform, or the connection fails, the icon will not display. After the device is connected to the platform, the icon changes to white.
4	Positioning status: If positioning is not enabled, or is enabled but fails, the icon is gray. After positioning is enabled and succeeds, the icon changes to white.
5	Wi-Fi connection status: If the device is not connected to Wi-Fi, or the connection fails, the icon is gray. After the device is connected to Wi-Fi, the icon changes to white.

No.	Description
6	Dial connection status: If the device is not connected to the mobile network or the connection fails, the icon is gray. After the device is connected to the mobile network, the icon changes to white.
7	Bluetooth connection status: If the device is not connected to the bluetooth device, or the connection fails, the icon is gray. After the device is connected to the bluetooth device, the icon changes to white.
8	The battery status and remaining battery.
9	The current date and time.
10	The device ID and user ID.
11	Mute. If the system volume is not 0, the icon will not display. If the system volume is 0, the icon will display.
12	The zooming multiple. For devices with touch screens, you can tap the icon to adjust the zooming multiple. For devices without touch screens, you can press the arrow keys below the screens to adjust the zooming multiple.

## 2.3 Main Menu

After the device starts up, it will enter the live view page automatically. Tap or press the main menu button below the screen to enter the main menu. The description of the main menu is shown as the table below.

## **i**Note

The main menu varies with different devices. The actual device prevails.

### Table 2-2 Main Menu Description

Menu	Description
File	Select it to view the videos, audios, and pictures saved in the device.
GroupTalk	Select it to set group intercom parameters and join the group intercom.
Set	Select it to set camera, network and system.

## iNote

If you have enabled **Menu Verification** or **Playback Verification**, you need to enter the device password when you enter the main menu or **File** page. Please operate according to the prompt.

# Chapter 3 Storage, Playback, and Backup

## 3.1 Storage

The recorded videos, taped audios, and captured pictures will be stored in the device.

## 3.1.1 Release Storage Capacity

When the storage capacity is full, you can back up the device data to the computer first, and then release the storage capacity.

#### Steps

- 1. Back up files via USB mode. Refer to "Backup" for details.
- 2. Delete the files backed up under DCIM folder to release the storage capacity.

## 3.1.2 Record

You can record videos via the device.

#### Steps

1. After the device starts up, press the recording button.

After the recording starts, the flashing red point and recorded time will appear on the upper left corner of the live view page, and the remaining available recording time will appear on the lower right corner of the live view page.

## **i**Note

The recording button varies with different devices. The actual device prevails.

- 2. Press the recording button again to stop recording.
- 3. Optional: Select File on the main menu to view the recorded videos.

# **i**Note

- If you want to record a period of time before recording starts, select Set → Camera → Record Param. → Pre-Record to set pre-record.
- If you want to record a period of time after recording ends, select Set → Camera → Record Param. → Post-Record to set post-record.

## 3.1.3 Tape

You can tape audios via the device.

## Steps

1. After the device starts up, press the taping button.

After the taping starts, the flashing white taping icon and taped time will appear on the upper left corner of the live view page, and the TF card status and available memory will appear on the lower right corner of the live view page.

# **i**Note

The taping button varies with different devices. The actual device prevails.

- 2. Press the taping button again to stop taping.
- 3. Optional: Select File on the main menu to view the taped audios.

## 3.1.4 Capture

You can capture pictures via the device.

## Steps

1. After the device starts up, press the capture button.

The device captures a picture.

# **i**Note

The capture button varies with different devices. The actual device prevails.

2. Optional: Select File on the main menu to view the captured pictures.

# 3.2 Playback

You can play back videos, audios, and pictures via the device.

## Steps

- 1. Select File on the main menu.
- 2. Select Video, Picture, or Audio.
- 3. Select the file to play or view from the file list.

# 3.3 Backup

You can switch the device as a USB flash disk and export files to your computer.

## **Before You Start**

Connect the device to the computer via data cable.

### Steps

- **1.** Switch the device to USB mode. Refer to "Switch USB Mode" for details.
- **2.** Copy the data of the device to the computer.

## iNote

You can only play the backed up video or audio files via Hikvision player or other players with Hikvision play plugin.

- Hikvision Player: If you select Hikvision player to play the files, visit Hikvision official website to download VSPlayer and install it.
- Hikvision Play Plugin: If you select other players to play the files, visit Hikvision official website to download MFPlugins and install it.

## 3.4 Set Tag

## 3.4.1 Set Tag During Recording

## **Touch-Screen Devices**

During recording, press the tag button to set a tag for the current video. The icon **a** will appear on the upper left corner of the live view page. Hold the tag button again to cancel the tag.

## **Non-Touch Screen Devices**

During recording, hold the OK button below the screen to set a tag for the current video. The icon vill appear on the upper left corner of the live view page. Hold the OK button again to cancel the tag.

# iNote

The tag button varies with different devices. The actual device prevails.

## 3.4.2 Set Tag After Recording, Taping, or Capturing

## **Touch-Screen Devices**

You can set a tag in two ways:

- After recording, tap File → Video to enter the file folder named after recording date, and select a video to play. During playing, tap anywhere on the screen, and then tap into the screen to set a tag for the current video. Tap the icon again to cancel the tag.
- After recording, taping, or capturing, tap **File**, and select a certain file from the video, audio, or picture file list. Hold the folder name to set a tag. The name of the tagged file will be displayed as red. Hold the file name again to cancel the tag.

## **Non-Touch Screen Devices**

After recording, taping, or capture, select **File**, and select a certain file from the video, audio, or picture file list. Hold the OK button to set a tag. The name of the tagged file will be displayed as red. Hold the OK button again to cancel the tag.

# **Chapter 4 Alarm Settings**

## 4.1 Set Auto Alarm

The device will detect the storage capacity and battery automatically. When the storage capacity is full or the battery is low, corresponding prompt will pop up on the live view page to send the auto alarm. Back up the files and release the storage capacity in time when the storage capacity is full. Charge the device in time when the device is in low power.

## 4.2 Set Manual Alarm

In emergency, press the alarm button on the device side to send the alarm signal to the connected platform.

# iNote

- Connect the device to the platform first. Then the alarm signal can be sent.
- The alarm button varies with different devices. The actual device prevails.

# **Chapter 5 Network Settings**

## 5.1 Dial

You can connect the device to the network via SIM card dialing.

#### **Before You Start**

Install the SIM card.

#### Steps

1. Enable Dial via the below operations.

Touch-screen devices	<ul> <li>Swipe the screen down to open the notification center. Tap  to enable dialing.</li> <li>On the main menu, tap Set → Network → Dial to enable Dial.</li> </ul>
Non-touch screen devices	On the main menu, select Set $\rightarrow$ Network $\rightarrow$ Dial to enable Dial.

2. Select Set → Network → Dial → APN to set APN parameters.

# iNote

Contact the service supplier to get the APN information.

3. Optional: You can do the below operations.

View the dial information	Select <b>Set → Network → Dial → Dial Information</b> to view the dial information.
View the APN information	Select Set $\rightarrow$ Network $\rightarrow$ Dial $\rightarrow$ APN Information to view the APN information.

### Result

The white dial icon appears on the status bar, indicating dialing succeeded.

# 5.2 Connect to Wi-Fi

Set Wi-Fi parameters if you want to connect the device to the network via Wi-Fi.

### Steps

1. Enable the Wi-Fi via the below operations.

Touch-screen devices	<ul> <li>Swipe the screen down to open the notification center. Tap ∑ to enable the Wi-Fi.</li> <li>On the main menu, tap Set → Network → Wi-Fi to enable Wi-Fi.</li> </ul>
Non-touch screen devices	On the main menu, select <b>Set → Network → Wi-Fi</b> to enable <b>Wi-Fi</b> .

- 2. Select Refresh to search available Wi-Fi.
- **3.** Select the Wi-Fi to connect, and enter the password.
- **4. Optional:** You can do the below operations.

View the connected Wi-FiSelect the connected Wi-Fi to view the information.information

Set the static Wi-Fi

- a. Select Static Wi-Fi.
- b. Enable Connect Static Wi-Fi.
- c. Select **Set Static Wi-Fi** to set **IP**, **Mask**, and other parameters.

#### Result

The white Wi-Fi connection icon appears on the status bar, indicating the Wi-Fi is connected.

#### What to do next

For devices with touch screens, you can swipe the screen down after the first successful connection, and tap the Wi-Fi icon on the notification bar to enable or disenable the Wi-Fi.

## **5.3 Connect to Bluetooth Headsets**

The device can connect to the bluetooth headsets.

#### **Before You Start**

Prepare the bluetooth headsets.

#### Steps

**1.** Enable the bluetooth via the below operations.

- Touch-screen devices
   Swipe the screen down to open the notification center. Tap 

   to enable the bluetooth.
   On the main menu, tap Set → Network → Bluetooth to enable Bluetooth.

   Non-touch screen devices

   On the main menu, select Set → Network → Bluetooth to enable Bluetooth.

   Select Refresh to server the nearby bluetooth devices.
- 3. Select the bluetooth headsets from the searched list.
- **4. Optional:** Select the connected bluetooth device to view the bluetooth information.

#### Result

The white bluetooth icon appears on the status bar, indicating the bluetooth headsets are connected.

# 5.4 Connect to Platform

## 5.4.1 Connect to EHome Platform

EHome is the platform access protocol. You can log in to the device via the platform to realize live view, data management, and so on.

#### **Before You Start**

Set the connected platform. Refer to the platform user manual for details. Ensure the device can communicate with the platform normally.

#### Steps

- 1. Select Set → Network → EHome Platform .
- 2. Enable Platform Connection.

# iNote

After enabling platform connection, reboot the device to take the new settings into effect.

3. Select Platform to set Address, ID, and other parameters.

## iNote

The device ID should be the same as the ID set on the platform.

4. Optional: You can do the below operations.

Enable Force Sub-Stream	Enable <b>Force Sub-Stream</b> to force the platform only to transmit via the sub-stream.
Enable Pic. Auto Upload	Enable <b>Pic. Auto Upload</b> , and the captured pictures will be automatically uploaded to the platform.
View the platform information	Select <b>Platform Information</b> to view the information.

## 5.4.2 Connect to ISUP Platform

ISUP is the platform access protocol. You can log in to the device via the platform to realize live view, data management, and so on.

### **Before You Start**

Set the connected platform. Refer to the platform user manual for details. Ensure the device can communicate with the platform normally.

### Steps

- 1. Select Set → Network → ISUP .
- 2. Enable ISUP Connection.

# iNote

After enabling platform connection, reboot the device to take the new settings into effect.

**3.** Select **ISUP** to set **IP**, **Port**, and other parameters.

# iNote

The device ID should be the same as the ID set on the platform.

4. Optional: You can do the below operations.

Enable Force Sub-Stream	Enable <b>Force Sub-Stream</b> to force the platform only to transmit via the sub-stream.
View the platform information	Select <b>ISUP Information</b> to view the information.

# 5.5 Upload to FTP

You can upload the video, audio, and picture files stored in the device to the FTP server.

## Before You Start

Allocate the FTP server, and ensure the device can communicate normally with the server network.

## Steps

- **1.** Select **Set**  $\rightarrow$  **Network**  $\rightarrow$  **FTP**.
- 2. Enable FTP.
- 3. Select FTP to set the FTP server parameters.
- 4. Enable Video Upload, Pic. Upload or Audio Upload according to your needs.
- 5. Optional: You can do the below operations.

Automatically delete local	Enable FTP Upload Delete, and the local files will be
files	automatically deleted after uploaded to the FTP server.
View the file upload status	Select FTP Information to view the file upload status.

# **Chapter 6 Group Intercom**

You can realize group intercom via the device.

#### **Before You Start**

- The device is connected to the platform.
- Register the device on the group intercom service configuration interface via the web browser.

### Steps

- 1. Select GroupTalk on the main menu.
- 2. Set platform parameters.
  - 1) Select Platform.
  - 2) Select Group Intercom to choose group intercom mode.
  - 3) Set IP Address, Port, and other parameters.
- **3.** Go back to the login page, enter the registered **User Name** and **Password** on the group intercom service configuration interface, and select **Login**.

After login, you will enter **Group List** page. The device will show the group list which is managed by the central platform automatically.



Figure 6-1 Group List

- **4.** Select a group to view group members and status.
- **5.** You can do the below operations.

Set current group	On <b>Group Member</b> page, select <b>Set now group.</b> , and select <b>OK</b> . Then, you can see the red <b>Now group yet.</b> prompt.
Make an audio call	On <b>Group Member</b> page, select an online member, and select <b>Audio Call</b> to make a full-duplex audio call. After the member received, you can

start the audio call. After the call is over, you can select Hang Up to end	
the audio call.	

Receive/hang up the audio call	When the other member in the group makes an audio call to you, you can select 💽 to receive the audio call, or you can select 🔁 to hang up.
Switch the intercogroup	<ul> <li>When the platform sends an ordinary invitation to join the intercom group, you can select <b>Yes</b> on the popup window to join the intercom group, or select <b>No</b> to not join the intercom group.</li> <li>When the platform sends a mandatory invitation to join the intercom group, the device will switch the intercom group automatically, and the user will directly join the intercom group.</li> </ul>

**6. Optional:** On **Group List** page, select **Exit** to exit the group intercom.

# **Chapter 7 System Settings**

## 7.1 Set Positioning

You can set positioning to locate the position of the device.

#### **Before You Start**

Disable the serial port mode.

#### Steps

1. Enable positioning via the below operations.

Touch-screen devices	<ul> <li>Swipe the screen down to open the notification center. Tap on to enable the positioning.</li> <li>On the main menu, tap Set → Network → Positioning → Positioning to select the positioning mode.</li> </ul>
Non-touch screen devices 2. Optional: Select Se	On the main menu, select <b>Set → Network → Positioning → Positioning</b> to select the positioning mode. <b>t → Network → Positioning → GPS Overlay</b> to enable GPS overlay.

The positioning information will be overlaid on the live view image.

#### Result

The white positioning icon appears on the status bar, indicating positioning succeeded.

# 7.2 Enable Indicator

Enable indicator to indicate the device status.

### Steps

- 1. Select Set → System .
- 2. Enable Led.

```
iNote
```

Refer to Quick Start Guide for the indicator status and colors.

# 7.3 Enable IR Light

You can enable IR light to supplement light for record at night or in dim environment.

### Steps

```
1. Select Set → Camera → Infrared .
```

2. Select On, Auto, or Off according to your needs.

## Auto

IR light will be enabled only when the environment is dim and recording or remote live view starts.

On

No matter how the environment light is, once you start recording, IR light will be enabled.

## 7.4 Set System Sound

## **Touch-Screen Devices**

Swipe the screen down to open the notification center. Set system sound at **m**. When the sound is decreased to mute, the icon **w** will display on the live view page.

### **Non-Touch Screen Devices**

On the live view page, press the up button below the screen to increase the sound, and press the down button to decrease the sound. When the sound is decreased to mute, the icon will display on the live view page.

## 7.5 Set Screen Brightness

iNote

This function is only for touch-screen devices.

Swipe the screen down to open the notification center. Set screen brightness at 👜 .

## 7.6 Set Voice Prompt

You can enable or disable the voice prompt when you start/stop recording/taping.

#### Steps

- 1. Select Set → System .
- 2. Enable or disable Voice Prompt according to your needs.

### Result

If you enable the function, there will be voice prompt when you start/stop recording/taping.

# 7.7 Set Encoding Parameters

## 7.7.1 Set Video Encoding Type

The video encoding type will affect the quality of live view, videos, and captured pictures.

## Steps

- 1. Select Set → Camera → Encode Type .
- 2. Select the video encoding type.

# **i**Note

Video bitrate varies with different encoding types. Please select according to your needs. H.265 is a new encoding technology. Compared with H.264, it reduces the transmission bitrate under the same resolution, frame rate, and image quality.

## What to do next

Reboot the device to take the new settings into effect.

## 7.7.2 Set Video Stream Parameters

You can set the video stream parameters when recording.

### Steps

- 1. Select Set → Camera → Record Param.
- 2. Set the parameters below.

### Video Resolution

The higher the resolution is, the clearer the image will be. Meanwhile, the network bandwidth requirement is higher.

### Bitrate

Select relatively large bitrate if you need good image quality and effect, but more storage spaces will be consumed. Select relatively small bitrate if storage requirement is in priority.

### Frame Rate

It is to describe the frequency at which the video stream is updated and it is measured by frames per second (fps).

### Video Clip

The max. recording duration of each video.

### Video Format

Select **PS**, and the video files will be packed in PS format. You need to use Hikvision player to play the files. Visit Hikvision official website to download VSPlayer and install it.

Select **MP4**, and the video files will be packed in MP4 format. You can play the files via the Windows player or Hikvision player to play the files. Visit Hikvision official website to download VSPlayer and install it.

#### What to do next

Reboot the device to take the new settings into effect.

## 7.7.3 Set Network Stream Parameters

You can set the network stream parameters when previewing the device via platform.

#### Steps

#### 1. Select Set → Camera → Net Trans. Param.

**2.** Set the parameters below.

#### **Net Resolution**

The higher the resolution is, the clearer the image will be. Meanwhile, the network bandwidth requirement is higher.

#### Net Bitrate

Select relatively large bitrate if you need good image quality and effect, but more storage spaces will be consumed. Select relatively small bitrate if storage requirement is in priority.

#### **Net Frame Rate**

It is to describe the frequency at which the video stream is updated and it is measured by frames per second (fps).

#### **Network Stream**

Select transmit video stream or mixed stream.

## 7.7.4 Set Audio Encoding Type

The audio encoding type will affect the quality of audio.

#### Steps

### 1. Select Set → Camera → Intercom Audio .

2. Select audio encoding type according to your needs.

#### What to do next

Reboot the device to take the new settings into effect.

## 7.8 Set Capture Parameters

You can set the captured picture resolution.

## Steps

- 1. Select Set → Camera → Picture Quality .
- **2.** Select the picture resolution.

# 7.9 Set Multi-Line OSD

You can set the overlay information on the videos and pictures.

## Steps

- 1. Select Set → Camera → Multi-Line OSD .
- 2. Enable Multi-Line OSD.
- 3. Select OSD to set OSD information.

## Result

The OSD information will be overlaid on the videos and pictures.

# 7.10 Set Pre-Record

You can set the time to record before the recording start time.

## Steps

- 1. Select Set → Camera → Record Param. → Pre-Record .
- **2.** Select the pre-record duration.

# 7.11 Set Post-Record

You can set the time to record after the recording end time.

## Steps

- 1. Select Set → Camera → Record Param. → Post-Record .
- 2. Select the post-record duration.

# 7.12 Set Overwritten Record

You can enable overwritten record to keep recording when the available memory is insufficient, and the former recorded videos will be overwritten.

## Steps

# Caution

If you enable overwritten record, back up the important data in time, or they will be overwritten.

1. Select Set → Camera → Record Param.

## 2. Enable Overwrite.

**3.** Enter the device password.

## Result

When the available memory is less then 150 MB, delete video files without a tag until the available memory is larger than 1 GB.

# 7.13 Set Record once On

The device will start recording when startup after the function is enabled.

## Steps

## 1. Select Set → Camera → Record Param.

2. Enable or disable Record once On.

# 7.14 Set PTZ Control

For the device supports video stabilization lens, you can select the stabilization mode and calibrate the device.

## Steps

## **i**Note

This function is only for the device supporting video stabilization lens.

## 1. Select Set → Camera → PTZ Control → Stable Mode .

**2.** Select the stabilization mode.

### Horizontal

In this mode, the lens keeps horizontal and forward. The shakes in the pan and tilt directions will be corrected.

FPV

In this mode, the shakes in the pan direction will be corrected. The shakes in the tilt direction will not be corrected and kept in the central position.

## 3. Select Camera → PTZ Control → Parameter Calibration .

- **4.** Place the device on a horizontal surface and keep it static, and select **OK** on the popup window.
- 5. Wait until the calibration completes, and select OK.

# 7.15 Set Quick Charging Mode

You can enable or disable quick charging mode.

### Steps

- **1.** Select Set  $\rightarrow$  System  $\rightarrow$  Power Supply .
- 2. Enable or disable Quick Charging Mode according to your needs.
  - Enable the quick charging mode, and all the power consuming functions, such as network, record, positioning, etc., will be disabled automatically. The fully-charged duration will be shorten.
  - Disable the quick charging mode, and the device can be operated normally while being charged. The fully-charged duration will be longer than the quick charging mode.

# 7.16 Switch USB Mode

You can switch the device to USB mode to import or export data.

## **Before You Start**

Connect the device to the computer via a data cable.

## Steps

- 1. Select Set → System .
- 2. Enable Auto USB Mode.
- **3.** Enter the device password.

# 7.17 Set Read-Only USB Mode

After switching to the USB mode, you can set the video, audio, and picture files to be copied to the computer only, but cannot be deleted locally.

### Steps

- 1. Select Set → System .
- 2. Enable or disable Readonly USB Mode.
  - Enable the read-only USB mode, and after switching to the USB mode, the video, audio, and picture files can only be copied to the computer, but cannot be deleted locally.
  - Disable the read-only USB mode, and after switching to USB mode, the video, audio, and picture files can both be copied or cut.

# **Chapter 8 Maintenance**

## 8.1 View System Information

Select Set  $\rightarrow$  System  $\rightarrow$  System Information to view the system information such as model, serial No., software version, etc.

## 8.2 View Device Information

Select Set  $\rightarrow$  System  $\rightarrow$  Device Information to view device information such as person ID, device ID, etc.

## 8.3 View Battery Information

Select Set  $\rightarrow$  System  $\rightarrow$  Power Supply  $\rightarrow$  Battery Information to view the battery power and status.

## 8.4 Enable Password

You can enable password verification for playback, entering main menu, and shutdown.

#### Steps

# iNote

It is recommended to enable password for data security.

#### 1. Select Set → System → PWD Verification .

- 2. Enable or disable Playback Verification, Menu Verification, and Shutdown Verification according to your needs.
- **3.** Enter the device password.

## 8.5 Edit Password

It is recommended to edit device password regularly to raise data security.

### Steps

- **1.** Select Set  $\rightarrow$  System  $\rightarrow$  PWD Verification  $\rightarrow$  Change Password .
- 2. Enter the old password and new password, and confirm the new password.
- 3. Select Save.

## What to do next

Next time you log in to the device, use the new password.

## 8.6 Upgrade

You can upgrade the device version.

### **Before You Start**

- Import the upgrade file to the root directory of the device storage media.
- Ensure the device battery power is larger than 20%.

#### Steps

```
1. Select Set → System → System → System Update .
```

- **2.** Enter the device password.
- 3. Select OK.

### Result

The device starts to upgrade. After upgrade finishes, the device will reboot automatically.

## 8.7 Export Debug Log

You can export the device debug log to view the log information.

#### Steps

### 1. Select Set → System → System → System Information .

**2.** Enter the debug log page.

Touch-screen devices	Tap the OK button below the screen 3 times continuously.
----------------------	--

**Non-touch screen devices** Press the OK button below the screen 3 times continuously.

#### 3. Enable Debug Log.

### Result

The debug log will be automatically exported to the debuglog directory of the device storage media. You can switch to USB mode to view the log.

## **i**Note

If the debug log is not disabled manually after enabled, it will be automatically disabled after the device works for 7 days by default.

# 8.8 Set Serial Port Debug

After enabling debug log, you can enable serial port mode to debug the device.

### Steps

## **i** Note

After the serial port mode is enabled, the positioning will be not available.

## 1. Select Set → System .

## 2. Enable Serial Port Mode.

### What to do next

Reboot the device to take the new settings into effect.

## 8.9 Set Satellite Time Synchronization

You can synchronize the device time with the satellite time when the device time is not accurate.

## **Before You Start**

Positioning has been enabled, and positioning succeeded.

## Steps

- **1.** Select Set  $\rightarrow$  Network  $\rightarrow$  Positioning .
- 2. Enable Satellite Time Sync.

## 8.10 Restore Basic Settings

If there is device exception due to the wrong set parameters, you can restore the basic settings.

### Steps

- 1. Select Set → System → System → Restore basic settings .
- 2. Enter the device password.
- **3.** Select **OK** on the popup window.

## Result

The device will reboot automatically. The parameters except the network parameters, bluetooth, device password, etc. will be restored to the factory settings.

## 8.11 Restore Factory Settings

If there is device exception due to the wrong set parameters, you can restore factory settings.

## Steps

- 1. Select Set → System → System → Restore Factory Param.
- **2.** Enter the device password.
- 3. Select OK on the popup window.

## Result

The device will reboot automatically. All the parameters will be restored to the factory settings, and the multi-users information will be cleared.

## 8.12 Shut down and Sleep

## 8.12.1 Shut down

After the device starts up, hold the startup/shutdown button on the device side to shut it down.

## 8.12.2 Shut down Forcedly

If the device cannot be shut down normally, you can hold the startup/shutdown button on the device side for 15 seconds to shut it down forcedly.

## 8.12.3 Sleep Manually

After the device starts up, press the startup/shutdown button on the device side to sleep the device.

## 8.12.4 Sleep Automatically

You can set the device to sleep automatically to save power if there is no operation within a certain time.

Steps

```
1. Select Set → System → Power Supply → Auto-Lock .
```

2. Select time.

**i** Note

If you select **OFF**, the screen will always on no matter if there is operation or not.

#### Result

If no operation is done within the set time, the device will sleep automatically.

## 8.12.5 Wake up

When the device is sleeping, you can press any button except the alarm button and the buttons below the screen to wake it up.

# Appendix A. Communication Matrix and Device Command

Scan the QR code below to get the communication matrix of the device.



Scan the QR code below to get the device command.



