



Smart Conference Camera

User Manual

Legal Information

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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 (<https://www.hikvision.com/>).

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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.

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Note: This product 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 product 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 product 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.

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.

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

EU Conformity Statement



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 Directive 2014/30/EU (EMCD), Directive 2014/35/EU (LVD) and Directive 2011/65/EU (RoHS).



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Directive 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: www.recyclethis.info



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Industry Canada ICES-003 Compliance

CAN ICES-3(B)/NMB-3(B)

Industry Canada ICES-003 Compliance

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

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Applicable Models

This manual is applicable to the Smart Conference Camera.

Symbol Conventions

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

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

Safety Instructions

Caution

- This device can only be safely used in the region below 2,000 meters above the sea level.
- No naked flame sources, such as lighted candles, should be placed on the equipment.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc. The openings shall never be blocked by placing the equipment on a bed, sofa, rug or other similar surface.
- Keep a minimum 10 cm distance around the equipment for sufficient ventilation.
- The USB port of the equipment is used for connecting to a mouse, a keyboard, or a USB flash drive only.
- The serial port of the equipment is used for debugging only.
- Install the equipment according to the instructions in this manual. To prevent injury, this equipment must be securely attached to the floor/wall in accordance with the installation instructions.
- CAUTION: This bracket is intended for use only with Smart Conference Camera. Use with other equipment may result in instability causing injury.
- CAUTION: This equipment is for use only with Smart Conference Camera and bracket. Use with other (carts, stands, or carriers) may result in instability causing injury.



Danger

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- This equipment is not suitable for use in locations where children are likely to be present.
- The additional force shall be equal to three times the weight of the equipment but not less than 50N. The equipment and its associated mounting means shall remain secure during the installation. After the installation, the equipment, including any associated mounting plate, shall not be damaged.
- Keep body parts away from motors. Disconnect the power source during servicing.
- To prevent possible hearing damage, do not listen at high volume levels for long periods.

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Chapter 1 Introduction

Based on audio and video processing technology, the smart conference camera (referred to as "camera") is an easy-to-use, efficient, smooth and safe video conference camera. It has functions of quick meeting joining, multi-party conference, etc.

The camera can work with Hikvision MCU products and video conference terminals to meet various scene applications such as users' daily meetings, remote training, telemedicine, collaborative office, command and dispatch, etc.

1.1 Packing List

Table 1-1 Packing List

Accessories	Number
Smart Conference Camera	1
Power Adapter	1
Remote Control	1
AAA Battery	2
5m USB Type-C Cable	1
NFC Stickers	1
Desk Mounting Bracket	1
Screw Pack	1
User Manual	1

Note

The NFC sticker can be pasted on the desk. The mobile phone can be paired via NFC and connected to Bluetooth to realize the voice access of mobile phone calls.

1.2 Appearance

The front and rear views of the camera are shown as follows.

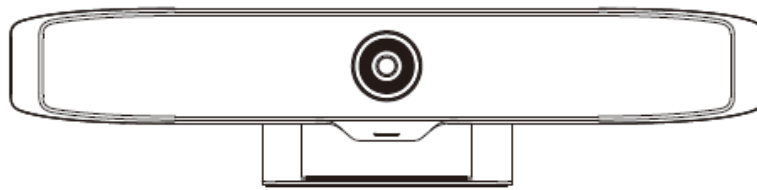


Figure 1-1 Front View

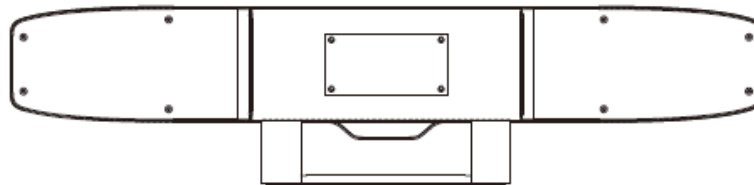


Figure 1-2 Rear View

1.3 Interface Description

The interface on the side of the camera rear view is shown as follows.

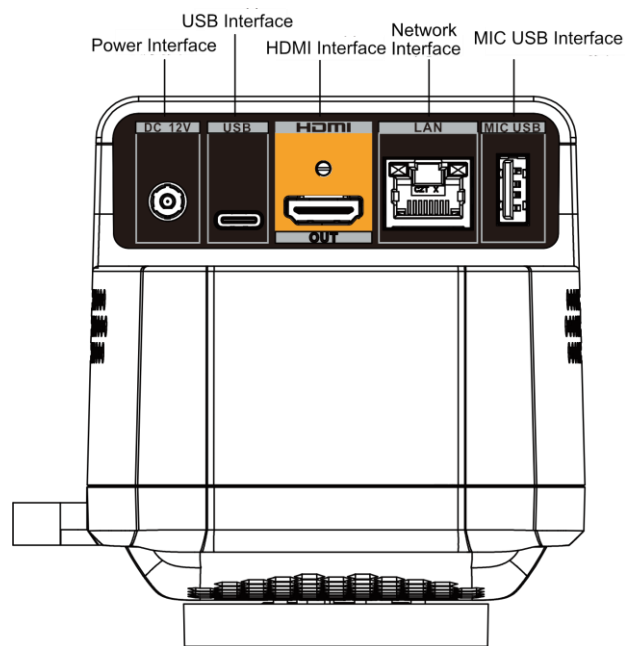


Figure 1-3 Front View

The camera interface is described as follows.

Table 1-2 Interface Description

Name	Description
MIC USB	Type-A port, used for connecting an external microphone. When an external microphone is connected, the build-in microphone will be unavailable.
Network Interface	• The network interface 10 m / 100 m / 1000 m is self-adaptive and used for network interaction with downlink devices. • The device can also be debugged through the network port.
HDMI OUT Interface	HDMI output interface, used for connecting an external display.
USB Interface	Type-C interface, used for connecting devices with PC system.
Power Interface	DC 12 V power input interface, used for connecting the matching power adapter.

1.4 Remote Control Description



Figure 1-4 Remote Control

The Bluetooth remote control buttons are described as follows.

Table 1-3 Button Description

Icon	Button Description
	Turn on/off privacy cover
	Turn on/off Bluetooth
	Shortcut key for volume interface
	Mute/Unmute microphone
	Switch HDMI OUT resolution
	Dome Camera Quick Control
	Return
	Menu
	Switch Mode (Speaker Tacking, AF, etc.)
	Zoom In
	Reset preset point
	Zoom Out
	Number Press and hold 1 ~ 5 to call the corresponding preset point.

1.4.1 Indicator Status Description

Steady red: indicates that the camera is in standby; Steady white: indicates that the camera is working normally.

1.4.2 Remote Control

**Caution**

- The remote control is used with the camera and cannot be mixed with other devices.
 - The distance between the remote control and the camera is 5 m. The camera cannot be controlled beyond this distance.
 - Please use a 1.5 V battery. Batteries of other specifications may fail to pair due to insufficient battery power.
-
- The remote control has been paired at the factory. You need to pair it again when it is disconnected. The specific operations are as follows:

Press and hold  and  at the same time. When the indicator light flashes at high frequency, release the keys and the remote control and the camera are pairing. When pairing, the indicator light changes from high-frequency flashing to constant on and finally goes out. The camera prompts "beep-beep-beep", indicating that the remote control and camera are paired successfully. Press any button on the remote control to control the camera.

- When the remote control and the camera are paired successfully, restart the camera and then press any button on the remote control to control the camera.

**Note**

If the pairing of the remote control and the camera fails, you can press any button on the remote control to solve the problem according to the information displayed by the indicator light.

- When the indicator light flashes several times, it is recommended to restart the camera and pair it again.
- When the indicator flashes once, the remote control may be connected to other devices. Find the connected device, cancel the connection, and then pair the camera again. If the pairing still fails, it is recommended to restart the camera to pair again.

Chapter 2 Installation

The camera supports desk and wall mounting.

2.1 Desk Mounting

Place the camera on a smooth horizontal table, and adjust the camera base as required.



Please keep the desk stable, pay attention to anti-skid, and make sure there is no obstruction in front of the camera.

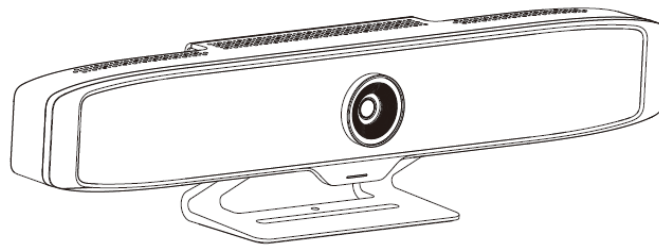


Figure 2-1 Desk Mounting

2.2 Wall Mounting

The camera can be mounted on a designated wall with the wall mounting bracket.



The wall mounting bracket is optional. The applicable model is DS-65VTA-wall mounting bracket assembly.

The camera is installed in the conference room. The recommended installation height is 1.2 m ~ 1.6 m, at which the whole conference room can be viewed.

The accessories need to be replaced during wall mounting. The precautions are as follows.



- Before replacing accessories, make sure that the worktable is clean and tidy to avoid external or structural damage to the camera caused by dirt or sharp objects.
- Before replacing accessories, please unplug all external cables of the camera. Please protect the lens from impact or falling to prevent damage to the camera.
- Please keep the replaced accessories properly to avoid loss.

Step 1 Remove the camera desk-mounting base.

- 1) Loosen the 2 decorative cover screws on the camera desk-mounting base and remove the decorative cover.
- 2) Remove the 8 rotating shaft screws.
- 3) Remove the desk-mounting base.

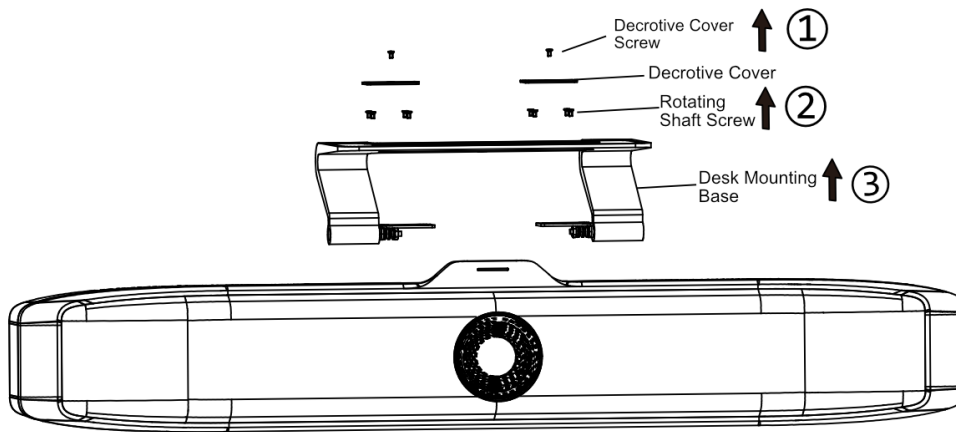


Figure 2-2 Remove Desk-Mounting Base

Step 2 Loosen the hand screws on both sides of the wall mounting bracket, and split the wall mounting bracket into the wall mounting bracket base and the wall mounting bracket assembly.

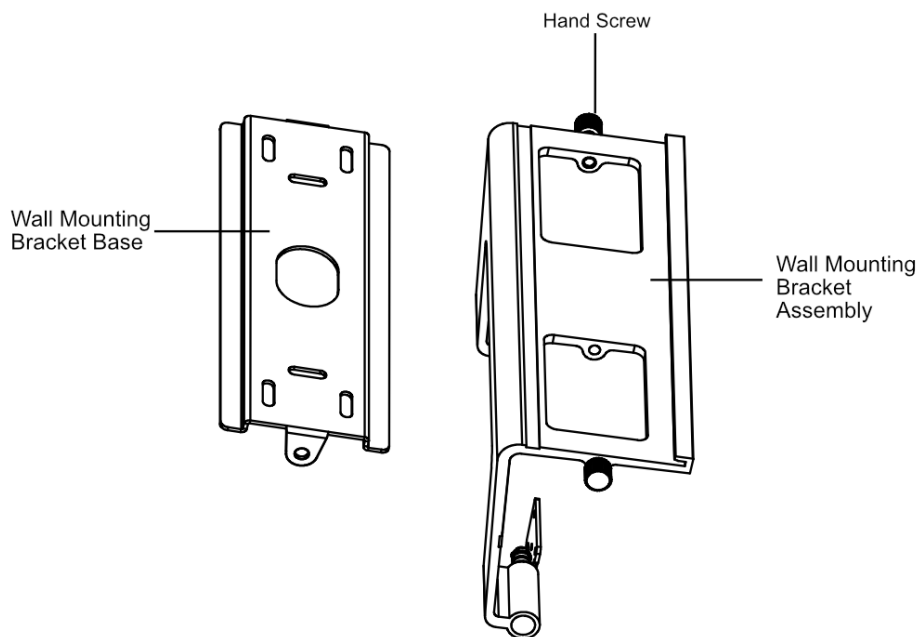


Figure 2-3 Remove Wall-Mounting Bracket

Step 3 Install the wall mounting bracket assembly onto the camera, fix it with 8 shaft screws. Install the decorative cover, and tighten the decorative cover screws to fix it.

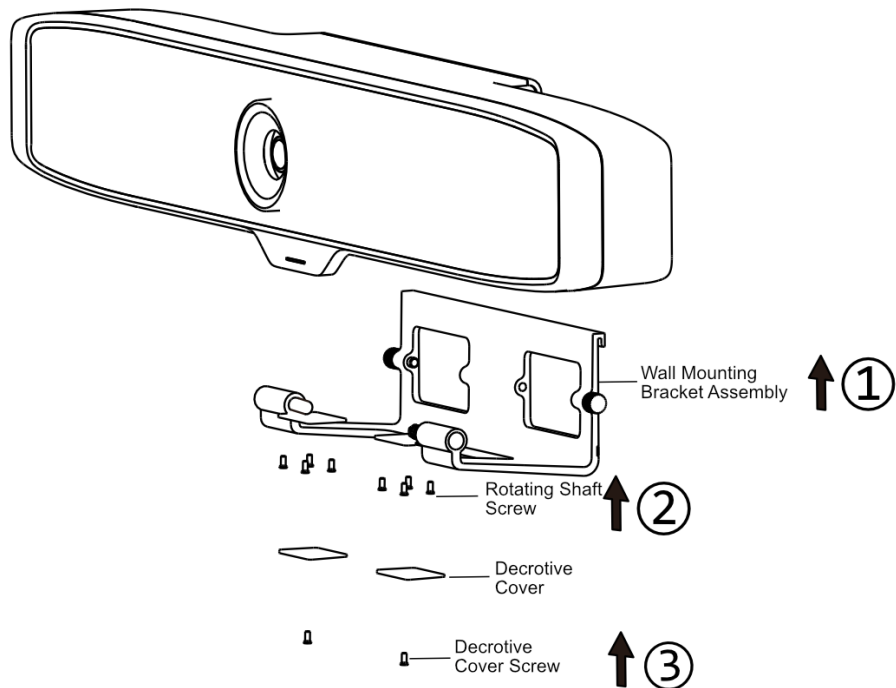


Figure 2-4 Install Wall-Mounting Bracket Assembly

Step 4 Select the appropriate installation wall to open a hole and embed the expansion pipe into the hole (size of the expansion pipe bottom hole in the wall: ϕ 5.5 mm, depth $\geq$ 25 mm).

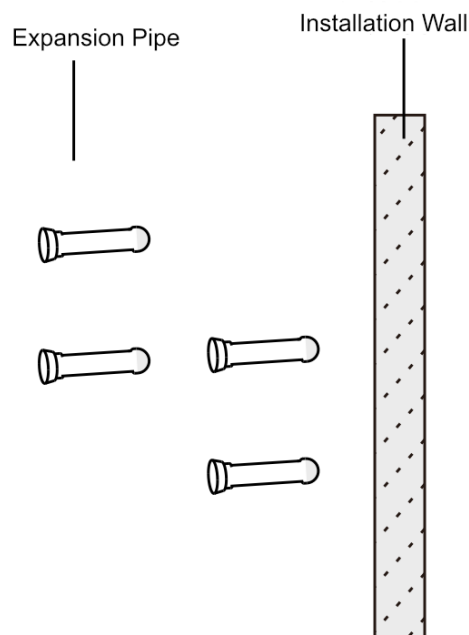


Figure 2-5 Open A Hole And Embed the Expansion Pipe

Step 5 Align the mounting holes of the wall mounting bracket base with the openings on the wall, and use self-tapping screws to fix the wall mounting bracket base to the wall.

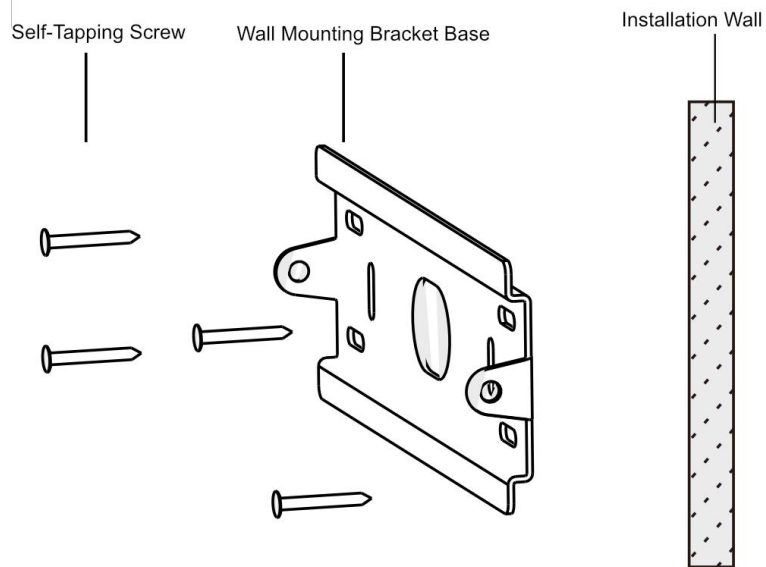


Figure 2-6 Install Wall Mounting Bracket Base

Step 6 Place the wall mounting bracket assembly on the wall mounting bracket base, and tighten the hand screws on both sides until they are fixed.

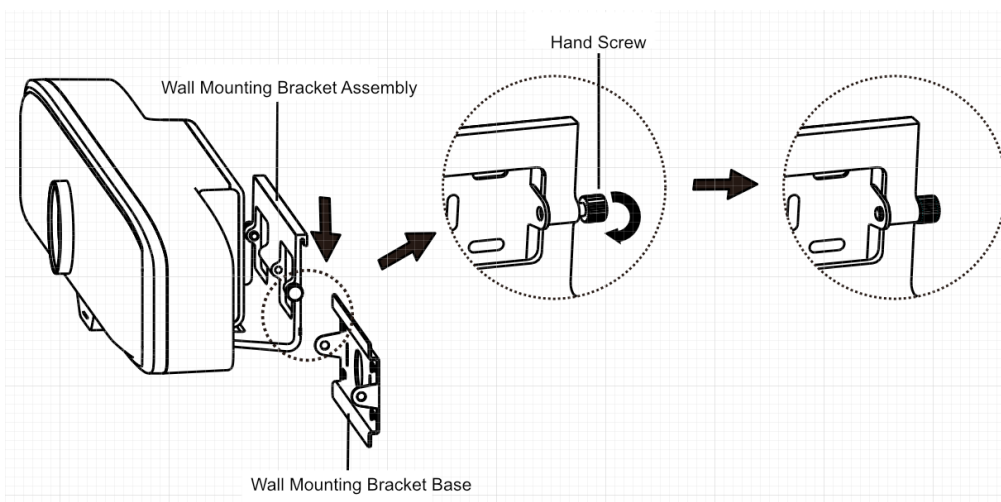


Figure 2-7 Fix the Camera

Chapter 3 Set Control Mode

Set camera control mode. Press  to switch control modes:

- **Manual:** You need to adjust the camera tracking speakers in the conference manually.
- **Speaker Tracking:** The camera can automatically track the speaker in the conference, focusing on the speaker area.
- **Auto Frame:** The camera can automatically adjust parameters according to the number of participants in the conference room and display the image of all the participants.
 - Once a participant moves in the conference room, the optimal angle will be automatically adjusted after all participants stop moving.

Note

When a participant moves in the conference, the camera will automatically select all the persons that the panoramic camera can capture in the conference area within 5 seconds. Make sure all persons' shoulders are in the picture.

- When the number of participants in the conference room increases, the camera will adjust automatically to cover all participants in the panoramic view.
- When someone leaves the conference, the camera will adjust to place the remaining participants in the center of the picture.

Table 3-1 Speaker Tracking Description

Presentation Status	Frame Mode
No one is speaking.	Best Perspective
Single-Sole Speaking	Close-up of Speaker
Multi-Person Discussion	Best Perspective

Chapter 4 PTZ Control

In manual mode, the PTZ can be controlled via remote control.

- Press  to zoom in and  to zoom out.
- Press /// to enable the camera to turn up, down, left, and right.



Note

PTZ control is not supported in Speaker Tracking or Auto Frame mode.

4.1.1 Set Preset Point

The preset point refers to the preset camera frame.

Step 1 Press  or , and press /// to check the frame.

Step 2 Press and hold the number key for several seconds to set the preset point.

Step 3 (Optional) Repeat the steps above to set multiple presets.



Note

- Setting preset point is only supported by number keys 1 to 5.
- The preset point cannot be cleared. Press and hold the same number key repeatedly to overwrite the preset point.

4.1.2 Call Preset Point

You can quickly switch to the preset frame by calling the preset point.

If the camera turns to other frames in manual mode, you can short press the number key to call the corresponding preset point.



Note

Please set preset points first.

Chapter 5 Menu Function

5.1 Set System Mode

Short press  to enter the menu, move the cursor to *System Mode*, press / to select *Normal Mode* or *Upgrade Mode*, and press  to confirm and return.

- Normal Mode:
The camera is in current operation mode.
- Upgrade Mode
Select this mode when the camera requires upgrading.

Note

- The camera needs to be connected to PC.
- Ensure you have obtained the correct updating pack and that the pack has been stored in the computer.
- Do not power off the camera during upgrade.

Step 1 Press  to enter the menu and move the cursor to *System Mode*.

Step 2 Press / to select upgrade mode, and press .

Step 3 Move the cursor to *Reboot Device* and press  to restart the camera.

Note

The camera will be recognized as a USB flash drive.

Step 4 Copy the upgrade pack to the root directory of the USB flash drive, and restart the camera again.

Note

- The camera will be upgraded automatically.
- After the camera is upgraded, switch it to *Normal Mode* and press  again.

5.2 Set Backlight Mode

When backlight compensation is enabled, the camera can compensate for the darkness of the camera's main body when recording in the reverse light environment. Press  to call out the

menu, move the cursor to *Backlight Compensation*, press /, select to turn on or off, and press .

5.3 Set Tracking Sensitivity

Tracking sensitivity means the duration of the speaker's continuous speaking time. Press  and move the cursor to *Tracking Sensitivity*, press /, adjust sensitivity parameter, and press .

5.4 Reboot Device

Move the cursor to *Reboot Device* and press  to restart the camera.

5.5 Restore Device

Restore camera parameters to factory defaults. Use with caution.

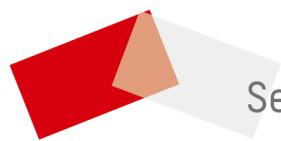
Move the cursor to *Restore Device* and press  to restore the camera to the factory defaults.

5.6 View Basic Device Information

Press  to enter the menu. You can check the device name, Bluetooth name, serial number, and software version.

→	Device Name	XXX
	Bluetooth Name	XXX
	Serial No.	XXX
	Software Version	XXX

Figure 5-1 Menu



See Far, Go Further