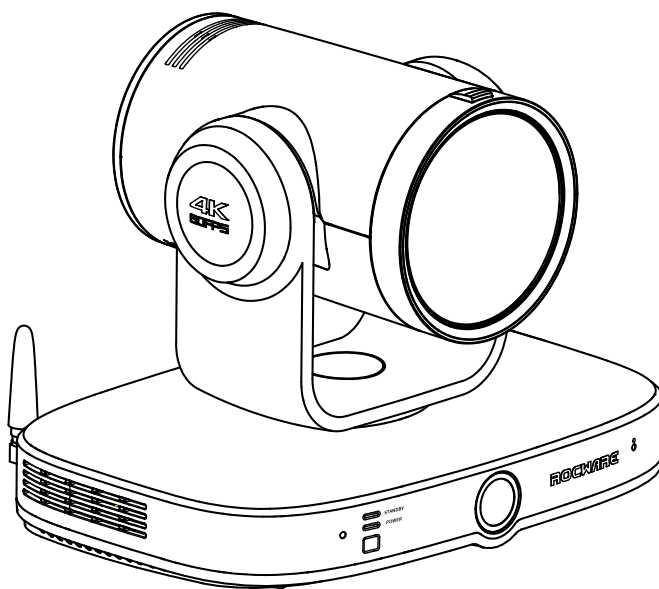# RC941 4K Dual-Lens
Presentation PTZ Camera

User Manual

Limitation of Liability

This manual does not contain any warranties or implied warranties of any kind. The contents of this manual may be updated at any time without notice.

⚠️ **Warning**

Operating this equipment in a residential environment may cause radio interference.

FCC Regulatory Conformance:

FC

This device complies with Part 15 of the FCC Rules. The 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.

📄 **Note**

This equipment has been tested and found to comply with the limits for a Class A 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 by 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 the 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/television technician for help.

📄 **Note**

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

EU Regulatory Conformance

RF exposure information: The Maximum Permissible Exposure (MPE) level has been calculated based on a distance of 20cm between the device and the human body. To maintain compliance with RF exposure requirement, use product that maintain a 20cm distance between the device and human body.

CE

Hereby, we declare that the radio equipment is in compliance with Directive 2014/53/EU.

5G

The 5150 to 5350 MHz frequency range is restricted to indoor use only in: AT, BE, BG, CH, CY,CZ, DE, DK, EE, EL, ES, FI, FR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, UK.

Operation temperature: 0~40℃
Operation frequency (Max power): 2.402-2.480GHz
Bluetooth: 2402-2480 (9dBm)

Wi-Fi:
2412MHz-2472MHz(18dBm)
5180MHz-5240MHz(21dBm)
5745MHz-5850MHz(11dBm)

Catalogue

1   Safety Precautions

- During the installation and operation, all electrical safety regulations of the country and region of use must be strictly observed.
- Please use the power adapter that comes standard with this product.
- Do not connect multiple devices to the same power adapter (exceeding the capacity of the adapter may generate excessive heat or cause fire).
- Do not rotate the camera by hand, otherwise it may cause mechanical failure.
- When installing this product on a wall or ceiling, make sure the device is secure and there are no obstacles within the rotation range. Do not power on until all installations are completed.
- To avoid heat build-up, please keep smooth ventilation around the device.
- If the device smokes, smells, or makes noises, please turn off the power and unplug the power cord immediately, then contact the dealer in time.
- This device is not waterproof, please keep the device dry.
- This product has no user-serviceable parts, damage caused by the user's disassembly is not covered by the warranty.

⚠ **Notice**

Running this device in a residential environment may cause radio interference.

2   Packing List

Name	Quantity
Camera	1
Power Adapter	1
USB Cable	1
HDMI Cable	1
Remote Control	1
Wall Mount Bracket (With Screws)	1
Quick Start Guide	1

3 Quick Start

1) Please check whether the connection is correct before starting.
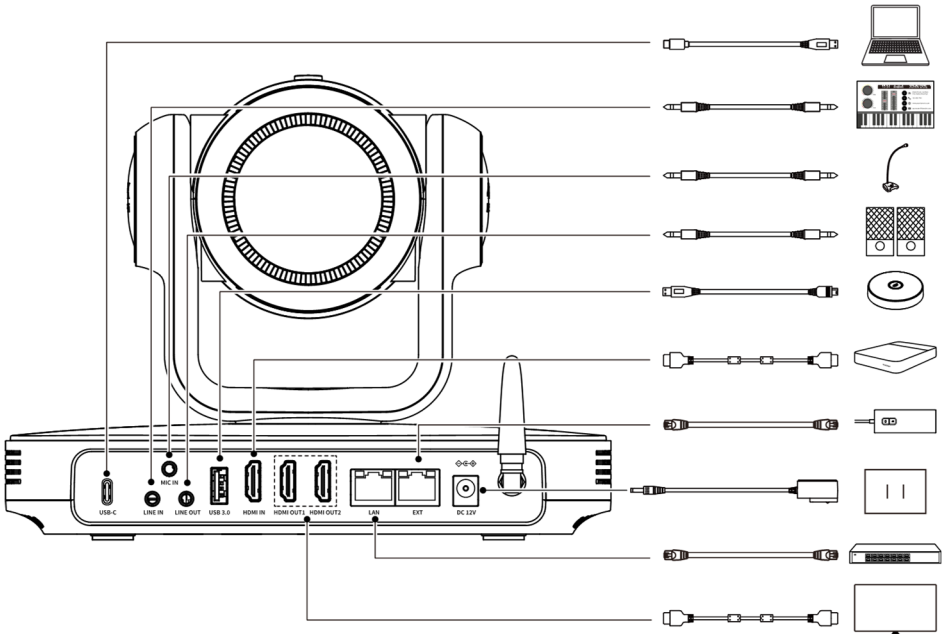
2) After the camera is powered on, it starts to initialize. Move the motor to the right limit position, then to the middle position both horizontally and vertically. The motor stops running, and the initialization is complete. (Note: If preset 0 is saved, PTZ will be moved to preset 0)

Instructions for BY42 Wired Pod:

Connect to Host

● Connect one end of the network cable to the LAN port of the Pod and the other end to the EXT port of the Host;

● Or, connect one end of a network cable to the UP port of the Cascade Microphone and the other end to the EXT port of the Host; Connect one end of another network cable to the DOWN port of the Cascade Microphone and the other end to the LAN port of the Pod.

Connect to PC

● Connect the USB-C (DP-IN) cable of the Pod to the USB Type-C port (support DP Alt Mode) on the PC;

● Or, connect the USB-C/USB-A cable of the Pod to the USB Type-C port (not support DP Alt Mode) or USB Type-A port on the PC, and connect one end of the HDMI cable to the HDMI IN port of the Pod and the other end to the HDMI OUT port on the PC.

Pairing

When the connections are complete and the devices are powered on, the Wired Pod will automatically search for and pair with the Host (indicated by a blue flashing indicator). When pairing is successful and an input source is detected, the sharing button will light solid red.

Screen Sharing

Press the sharing button to start screen-sharing, the sharing indicator will light with solid blue. Press the sharing button again to stop screen-sharing, the sharing indicator will switch to red.

4 About Product

4.1 Features

● **Full-featured USB Interface**

Full-featured USB 3.0 interface, support audio and encoding output, support UVC 1.1 and VAC 1.0 protocol.

● **Good Compatible**

Support the mainstream video conferencing software on the market.

● **4K Dual-lens UHD**

Support Dual 4K lenses: PTZ Lens + Panoramic Lens.

The PTZ Lens uses the new generation 1/1.8-inch 8.51-megapixel high quality UHD CMOS sensor, with optical zoom up to 12x. The Panoramic Lens uses the 1/2.7-inch, 8.51-megapixel high-quality UHD CMOS sensor. It provides high-quality images with 4K (3840x2160) ultra-high resolution and downward compatible with 1080P, 720P, etc.

● **80.8° Optical Wide-Angle Lens**

Custom-designed high-quality 8.51-megapixel ultra-high-resolution wide-angle lens with a horizontal field of view up to 80.8°.

● **Rich AI Features**

Supports Presenter Tracking, Group Framing, and Gesture Control, etc.

● **BYOM Experience Upgrade**

Provides dual-mode BYOM connection: supports wireless BYOM and wired BYOM; supports wired and wireless screen projecting.

● **Leading Auto-Focus Technology**

Uses advanced focusing algorithms to ensure the lens focuses quickly, accurately and stably.

● **Multiple Control Options**

Support use infrared remote control or USB to control the camera.

● **Low Illumination**

The new CMOS image sensor with ultra-high SNR can effectively reduce the image noise under low illumination. With 2D and 3D noise reduction algorithms, it significantly reduces the image noise, ensuring clean and clear images even under ultra-low illumination.

4.2 Product Specifications

PTZ Camera	
Sensor	1/1.8", CMOS, 8.51 Megapixels
Scanning Mode	Progressive
Lens	12X, f=4.81mm~57.8mm, F1.8~F3.6
Optical Zoom	12X
Digital Zoom	16X
Minimum Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s~1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction

SNR	≥38dB
Horizontal FOV	80.8°~7.5°
Vertical FOV	49.19°~4.3°
Pan Angle	±170°
Tilt Angle	-30°~+30°
Pan Speed	0.86°~46.64°/S
Tilt Speed	0.35°~14.53°/S
Image Flip	Support
Image Freeze	Support
Preset Position	10
Preset Accuracy	0.1°
Panoramic Camera	
Sensor	1/1.27", CMOS, 8.51 Megapixels
Scanning Mode	Progressive
Lens	Focal length: 3.0 ±5%
Minimum Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s~1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
SNR	≥38dB
Horizontal FOV	84.5°
Vertical FOV	54°
Diagonal Angle	93.1°
Image Flip	Support
USB Features	
Operating System	Windows 7/8/10/11, Mac OS X, Linux, Android
Video Format	● NV12:1080P30 (max.) ● H.264 AVC: 1080P30 (max.) ● MJPEG: 1080P30 (max.)
USB Audio	Support
USB Protocol	UVC 1.1, UVC 1.0

UVC PTZ Control	Support
Interfaces	
USB Interface	1 x USB3.0: Type-C
	1 x USB2.0: Type-A
Audio Input	2 x Built-in MIC
Video Output Interface	2 x HDMI OUT: 2.1
Video Input Interface	1 x HDMI IN: 2.0
Audio Interface	1 x LINE IN: 3.5mm
	1 x LINE OUT: 3.5mm
	1 x MIC IN
	1 x DMIC
Network	1 x EXT: 10M/100M/1000M, support PSE
	Wi-Fi5
Power Interface	JEITA type (DC 12V)
General Specifications	
Input Voltage	DC 12V
Input Current	5A
Operating Temperature	0°C~40°C
Storage Temperature	-40°C~60°C
Power Consumption	60W
Dimension	233mmx154.8mmx165mm
Net Weight	About 2.5kg

Note

Product features and specifications are subject to change without notice.

4.3 Interfaces

No.	Name
11	USB 3.0 Interface
12	HDMI IN Interface
13	HDMI OUT1 Interface
14	HDMI OUT2 Interface
15	LAN Interface
16	EXT Interface
17	DC 12V Interface
18	WiFi Antenna

4.4 Dimension

Unit: mm
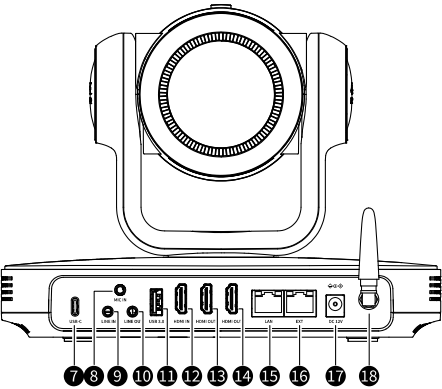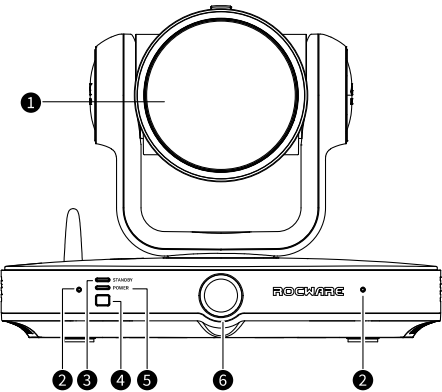
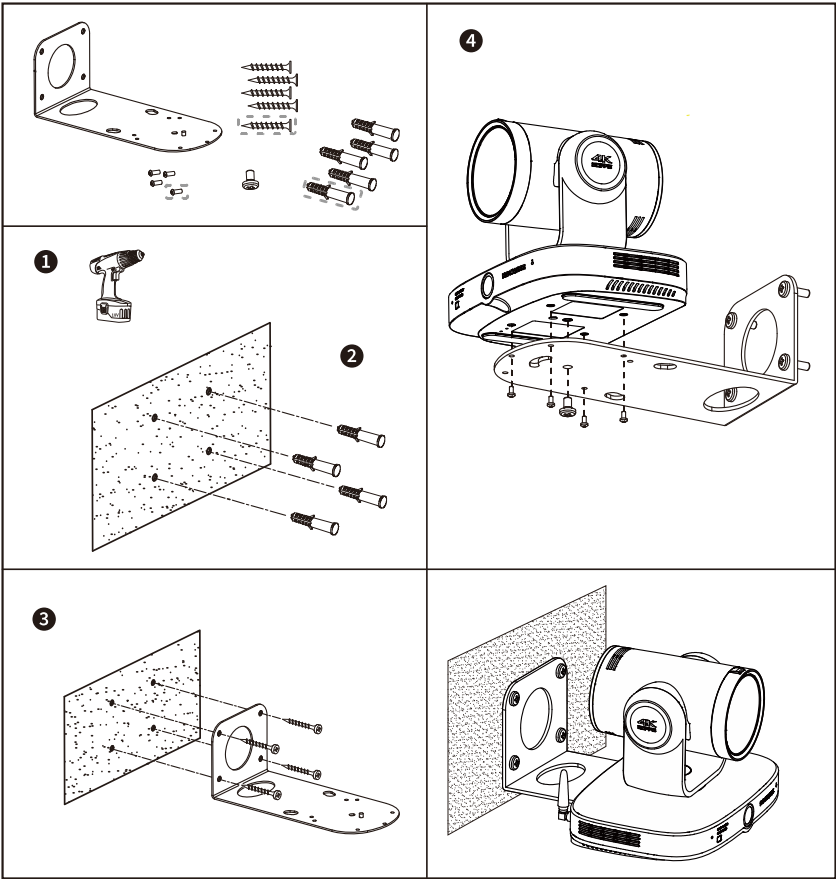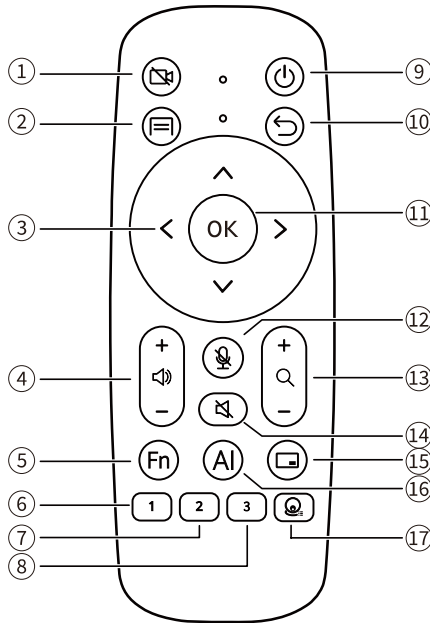| No.	Name
1	PTZ Camera
2	Microphone
3	STANDBY Indicator
4	IR Window
5	POWER Indicator
6	Panoramic Camera
7	USB-C Interface
8	MIC IN Interface
9	LINE IN Interface
10	LINE OUT Interface
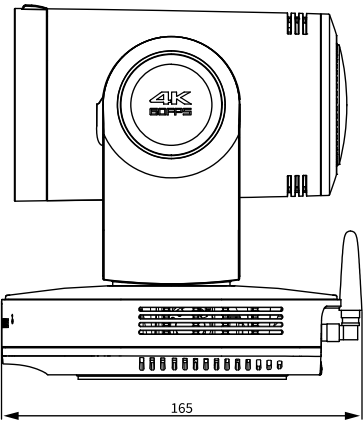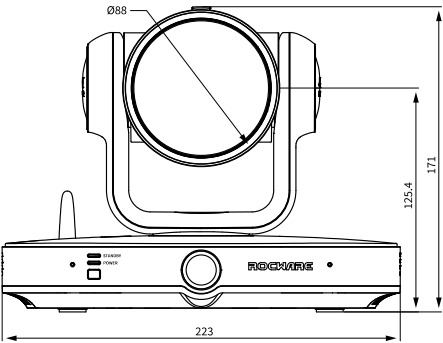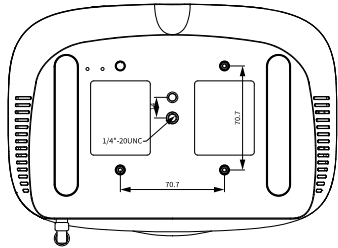
4.5 Installation

Note

The above installation diagram is for reference only. Please refer to actual product for the installation accessories.

4.6 Remote Control

Key Description
1. Camera On/Off Key
Turn On/Off the Camera
2. Menu Key
● Press to enter the Screen Projection interface and refer to the screen projection instructions to use the camera on a PC
● Or, use the direction key to select the "📷" icon and press the [OK] key to confirm to enter the OSD MENU interface to do menu settings
3. Direction Keys
● Menu mode: Press to select and set the Menu
● Non menu mode: Press to move the Camera to Up/Down/Left/Right direction
4. Volume +/- Keys
Press to increase or decrease the volume
5. Fn Key (Custom Function Key)
Reserved, supported after future software upgrades
6. Preset 1 Key
Press to call preset 1
7. Preset 2 Key
Press to call preset 2

| |
|---|
| **8. Preset 3 Key** |
| Press to call preset 3 |
| **9. Power Key** |
| Press to select Standby, Power Off or Restart |
| **10. Return Key** |
| Press to return to the previous menu |
| **11. OK Key** |
| Confirm selection |
| **12. Microphone Mute Key** |
| Turn On/Off the Microphone |
| **13. Zoom Keys** |
| Zoom in [+]; Zoom out [-] |
| **14. Speaker Mute Key** |
| Turn On/Off the Speaker |
| **15. Layout Switch Key** |
| Press to switch the picture layout |
| **16. AI Key** |
| Press to select Presenter Tracking, Group Framing or Close |
| **17. Preset Key** |
| Successively press [Preset] + Number key (1-3) to set the preset position |

5 AI Tracking

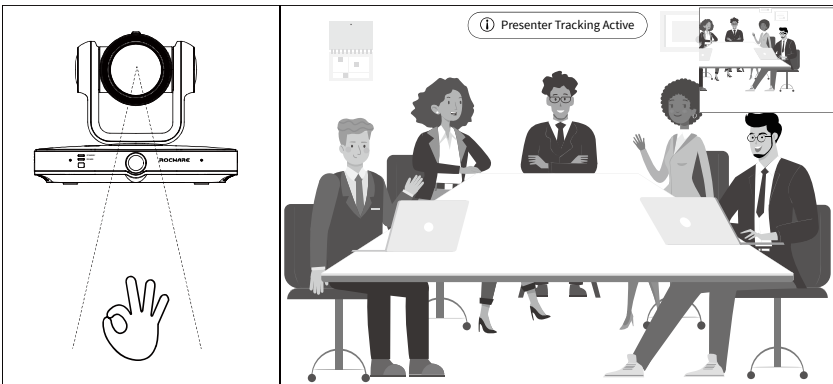Camera supports Presenter Tracking, Group Framing and Gesture Control tracking function.

5.1 Presenter Tracking

➢ **Operation**

Step 1 Press the [AI] key on the remote control and select "Presenter Tracking" to enable the presenter tracking function.
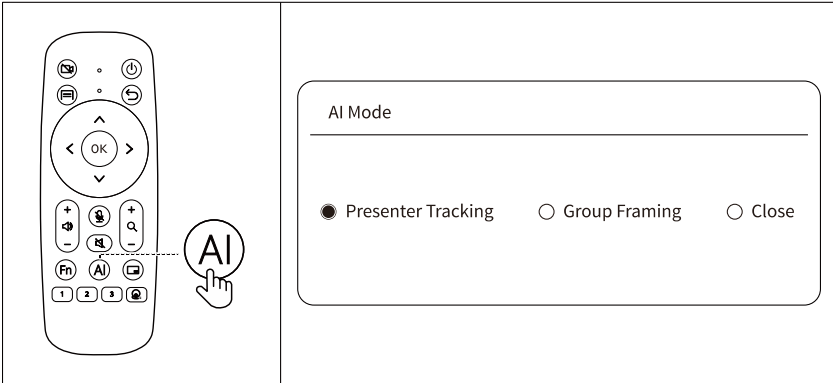

Step 2 Align the camera and make the " ✋ " gesture, the camera will automatically recognize and select the tracked person. When the tracked person is selected, the screen will display "Presenter Tracking Active".

**Step 3** When the tracked person moves, the camera will automatically lock the position and give a close-up image.

Step 4 Align the camera and make the "✋" gesture, the Presenter Tracking function will be inactivated

and the screen will display "Presenter Tracking Inactive".
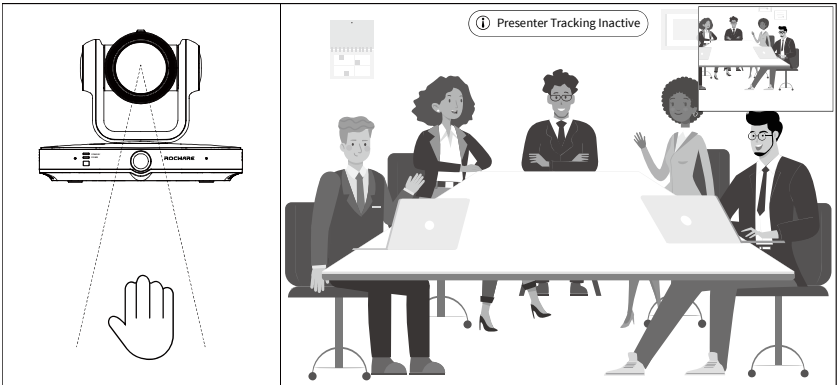
Or, press the [AI] key on the remote control and select "Close" to turn off the Presenter Tracking

function directly.
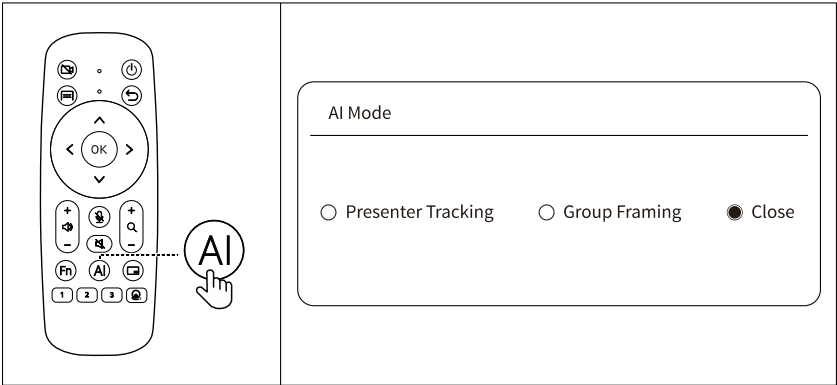
5.2 Group Framing

➢ **Operation**

Step 1 Press the [AI] key on the remote control and select "Group Framing" to enable the group framing function.
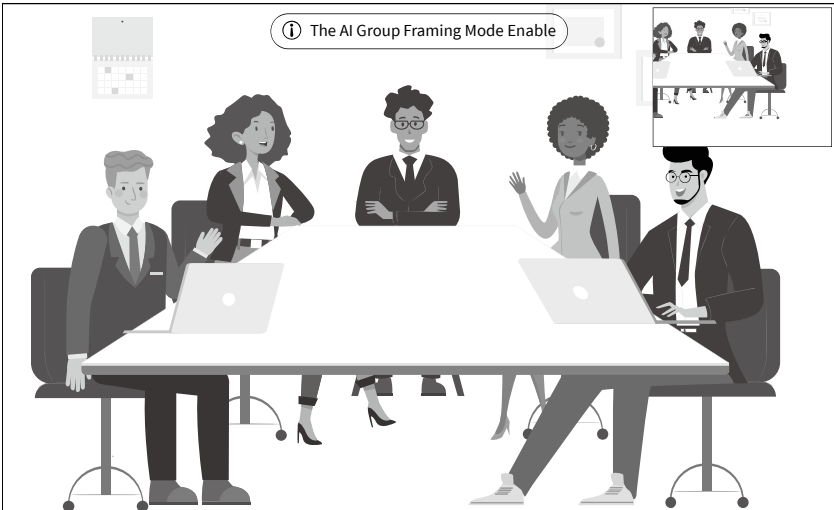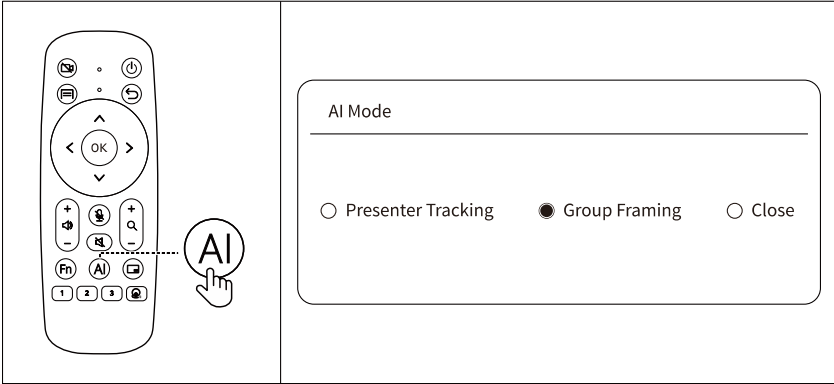
Step 2 When the participant moves, the camera will automatically adjust the image for the best composition using facial recognition.
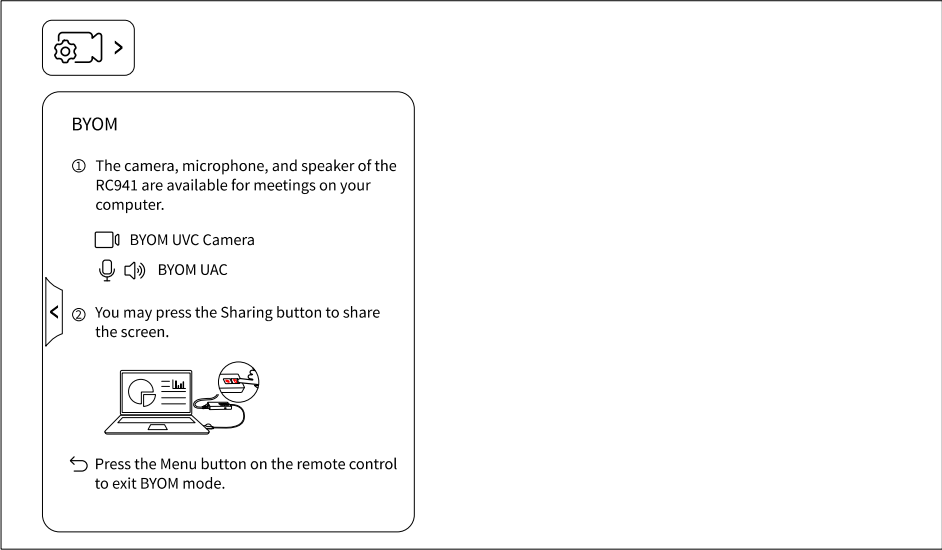
Step 3 Press the [AI] key on the remote control and select "Close" to turn off the Group Framing function.

AI Mode

○ Presenter Tracking   ○ Group Framing   ◉ Close

ⓘ You Have Turn Off The AI Mode
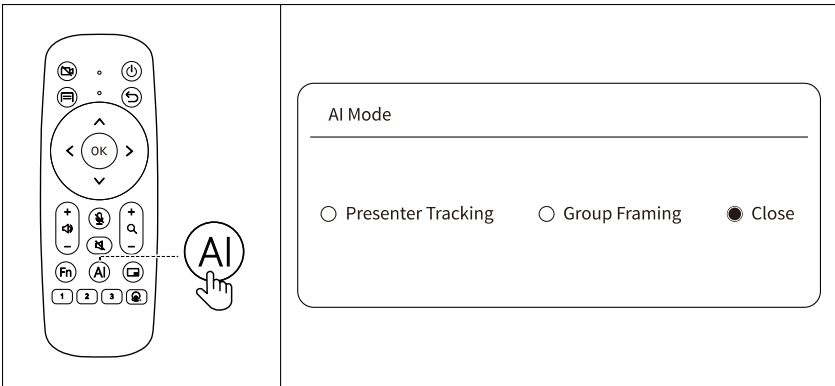
6 BYOM

Camera supports BYOM (Bring Your Own Meeting) function. After connecting the Camera and turning it on, the screen will display the screen sharing interface as below; Or, press the [▤] key on the remote control to enter the screen sharing interface and refer to the interface instructions to share the screen.

7 GUI Settings

Press the [▤] key on the remote control and move the cursor to select the "⛶" icon, then press the [OK] key to confirm to enter the main OSD menu interface as below.

🧍 PTZ Camera	🧍 PTZ Camera
📷 Pano Camera	Exposure
🔍 Preset Position	Color
🖵 Layout	Image
⚙ System Settings	Noise Suppression
	Reset OSD Default

7.1 PTZ Camera

When in the main menu interface, move the cursor to select and enter to the "PTZ Camera" interface to do the menu settings.

🧍 PTZ Camera	🧍 PTZ Camera
📷 Pano Camera	Exposure
🔍 Preset Position	Color
🖵 Layout	Image
⚙ System Settings	Noise Suppression
	Reset OSD Default

7.1.1 EXPOSURE

Move the cursor to select and enter the "Exposure" menu interface, and use the [◀]/[▶] key to change values. After the change, press the [↩] key to return to the previous menu.

👤 PTZ Camera	👤 OSD Menu	
▶▶ Exposure	Mode	Auto
Color	ExpCompMode	Off
Image	ExpComp	0
Noise Suppression	Backlight	Off
Reset OSD Default	Gain Limit	9
	Anti-Flicker	50Hz
	Meter	Average
	DRC	1

Mode: Auto, Manual, SAE, AAE, Bright, Smart.

ExpCompMode: On, Off (Effective in Auto mode).

ExpComp: -7~7 (Effective in Auto mode).

Backlight: On, Off (Effective in Auto mode).

Bright: 0~17 (Effective in Bright mode).

Gain Limit: 0~15 (Effective in Auto, SAE, AAE, Bright mode).

Anti-Flicker: Off, 50Hz, 60Hz (Effective in Auto, AAE, Bright mode).

Meter: Average, Center, Bottom, Top (Effective in Auto, SAE, AAE, Bright mode).

Iris: F1.8, F2.0, F2.4, F2.8, F3.4, F4.0, F4.8, F5.6, F6.8, F8.0, F9.6, F11.0, Close (Effective in Manual, AAE mode).

Shutter: 1/30, 1/50, 1/60, 1/90,1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/725, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000 (Effective in Manual, SAE mode).

Gain: 0~7 (Effective in Manual mode).

DRC: 0~8.

7.1.2 COLOR

Move the cursor to select and enter the "Color" menu interface, and use the [◀]/[▶] key to change values. After the change, press the [↩] key to return to the previous menu.

👤 PTZ Camera	👤 OSD Menu	
Exposure	WB Mode	Auto
▶▶ Color	R Gain	0
Image	B Gain	0
Noise Suppression	Saturation	90%
Reset OSD Default	Hue	0

WB Mode: Auto, Indoor, Outdoor, One Push, Manual, VAR.

R Gain: -127~127 (Effective in Auto, One Push, Manual, VAR mode).

B Gain: -127~127 (Effective in Auto, One Push, Manual, VAR mode).

Saturation: 60%~200%.

Hue: -10~10.

Color Temp: 2500K~8000K (Effective in VAR mode).

7.1.3 IMAGE

Move the cursor to select and enter the "Image" menu interface, and use the [◀]/[▶] key to change values. After the change, press the [↩] key to return to the previous menu.

👤 PTZ Camera	👤 OSD Menu	
Exposure	Luminance	7
Color	Contrast	7
▶▶ Image	Sharpness	Auto
Noise Suppression	Flip-H	Off
Reset OSD Default	Flip-V	Off
	B&W-Mode	Off
	Gamma	EXT
	Image Style	Default

Luminance: 0~14.

Contrast: 0~14.

Sharpness: Auto, 0~15.

Flip-H: On, Off.

Flip-V: On, Off.

B&W-Mode: On, Off.

Gamma: Default, 0.45, 0.5, 0.56, 0.63, EXT.

Image Style: Default, Outdoor, Cozy, Norm, Bright, PC.

7.1.4 NOISE SUPPRESSION

Move the cursor to select and enter the "Noise Suppression" menu interface, and use the [◀]/[▶] key to change values. After the change, press the [↩] key to return to the previous menu.

👤 PTZ Camera	👤 OSD Menu	
Exposure	2D NR	2
Color	3D NR	Auto
Image		
▶▶ Noise Suppression		
Reset OSD Default		

2D NR: Close, 1~10.
NR3D Level: Auto, Close, 1~9.

7.1.5 RESET OSD DEFAULT

Move the cursor to "Reset OSD Default" and press the [OK] key to confirm to restore the PTZ Camera to default settings.

⼈ PTZ Camera	⼈ PTZ Camera
📷 Pano Camera	Exposure
◉ Preset Position	Color
⌷ Layout	Image
⚙ System Settings	Noise Suppression
	▶▶ Reset OSD Default

7.2 Panoramic Camera

When in the main menu interface, move the cursor to select and enter to the "Pano Camera" interface to do the menu settings.

⼈ PTZ Camera	📷 Pano Camera
📷 Pano Camera	Exposure
◉ Preset Position	Color
⌷ Layout	Image
⚙ System Settings	Noise Suppression
	Reset OSD Default

7.2.1 EXPOSURE

Move the cursor to select and enter the "Exposure" menu interface, and use the [◀]/[▶] key to change values. After the change, press the [↩] key to return to the previous menu.

📷 Pano Camera	📷 OSD Menu	
▶▶ Exposure	Mode	Auto
Color	ExpCompMode	Off
Image	ExpComp	0
Noise Suppression	Backlight	Off
Reset OSD Default	Gain Limit	9
	Anti-Flicker	50Hz
	Meter	Average
	DRC	1

Mode: Auto, Manual, SAE, AAE, Bright, Smart.
ExpCompMode: On, Off (Effective in Auto mode).
ExpComp: -7~7 (Effective in Auto mode).
Backlight: On, Off (Effective in Auto mode).
Bright: 0~17 (Effective in Bright mode).

Gain Limit: 0~15 (Effective in Auto, SAE, AAE, Bright mode).
Anti-Flicker: Off, 50Hz, 60Hz (Effective in Auto, AAE, Bright mode).
Meter: Average, Center, Bottom, Top (Effective in Auto, SAE, AAE, Bright mode).
Iris: F1.8, F2.0, F2.4, F2.8, F3.4, F4.0, F4.8, F5.6, F6.8, F8.0, F9.6, F11.0, Close (Effective in Manual, AAE mode).
Shutter: 1/30, 1/50, 1/60, 1/90,1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/725, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000 (Effective in Manual, SAE mode).
Gain: 0~7 (Effective in Manual mode).
DRC: 0~8.

7.2.2 COLOR

Move the cursor to select and enter the "Color" menu interface, and use the [◀]/[▶] key to change values. After the change, press the [↩] key to return to the previous menu.

📷 Pano Camera	📷 OSD Menu	
Exposure	WB Mode	Auto
▶▶ Color	R Gain	-1
Image	B Gain	-3
Noise Suppression	Saturation	100%
Reset OSD Default	Hue	0

WB Mode: Auto, Indoor, Outdoor, One Push, Manual, VAR.
R Gain: -127~127 (Effective in Auto, One Push, Manual, VAR mode).
B Gain: -127~127 (Effective in Auto, One Push, Manual, VAR mode).
Saturation: 60%~200%.
Hue: -10~10.
Color Temp: 2500K~8000K (Effective in VAR mode).

7.2.3 IMAGE

Move the cursor to select and enter the "Image" menu interface, and use the [◀]/[▶] key to change values. After the change, press the [↩] key to return to the previous menu.

📷 Pano Camera	📷 OSD Menu	
Exposure	Luminance	7
Color	Contrast	7
▶▶ Image	Sharpness	6
Noise Suppression	Flip-H	Off
Reset OSD Default	Flip-V	Off
	B&W-Mode	Off
	Gamma	EXT
	Image Style	Default

Luminance: 0~14.

Contrast: 0~14.

Sharpness: Auto, 0~15.

Flip-H: On, Off.

Flip-V: On, Off.

B&W-Mode: On, Off.

Gamma: Default, 0.45, 0.5, 0.56, 0.63, EXT.

Image Style: Default, Outdoor, Cozy, Norm, Bright, PC.

7.2.4 NOISE SUPPRESSION

Move the cursor to select and enter the "Noise Suppression" menu interface, and use the [◀]/[▶] key to change values. After the change, press the [↰] key to return to the previous menu.

📷 Pano Camera	📷 OSD Menu	
Exposure	2D NR	2
Color	3D NR	Auto
Image		
▶▶ Noise Suppression		
Reset OSD Default		

2D NR: Close, 1~10.

NR3D Level: Auto, Close, 1~9.

7.2.5 RESET OSD DEFAULT

Move the cursor to "Reset OSD Default" and press the [OK] key to confirm to restore the Pano Camera to default settings.

👤 PTZ Camera	📷 Pano Camera
📷 Pano Camera	Exposure
🔍 Preset Position	Color
🖵 Layout	Image
⚙ System Settings	Noise Suppression
	▶▶ Reset OSD Default

Note

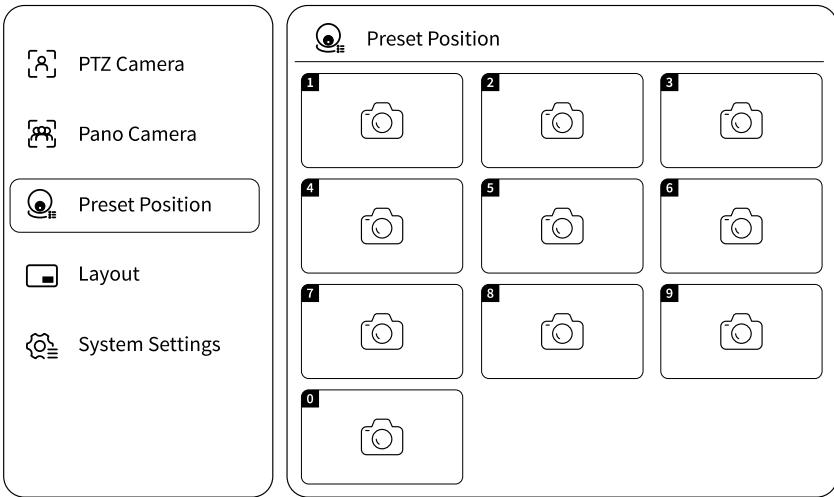The OSD menu and device information are subject to change without notice.

7.3 Preset Position

Camera supports set, call, edit or delete the preset position.

7.3.1 Set the Preset Position

➢ **Operation**

Step 1 When in the main menu interface, press the direction key to select and enter to the "Preset Position" interface as below.

Step 2 Move the cursor to select the preset position (0~9) and confirm with [OK] key to enter to the Preset Position setup interface.

Step 3 Use the direction key to turn the PTZ camera to Up/Down/Left/Right and press [OK] key to save.

Step 4 After the preset position successfully saved, press the [↺] key to return to the main menu interface.
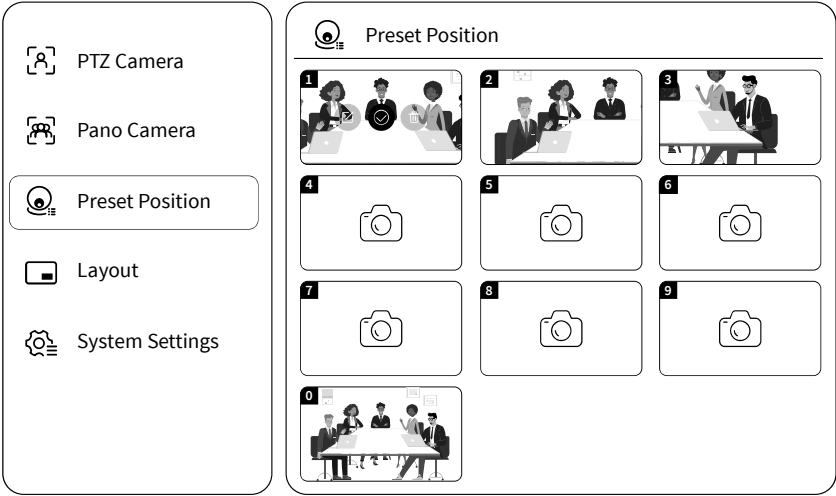
Note

If there is preset position 0, the PTZ camera will reset to preset position 0; If there is no preset position 0, the PTZ camera will reset to the home position.

7.3.2 Call the Preset Position

➢ **Operation**

Step 1 When in the "Preset Position" interface, move the cursor to select the saved preset position (0~9) and confirm with [OK] key.

Step 2 Use the direction key to select the "⊘" icon and press the [OK] key to confirm to turn the PTZ camera to the selected preset position.

Step 3 Press the [⤺] key to return to the main menu interface.

7.3.3 Edit the Preset Position

➢ **Operation**

Step 1 When in the "Preset Position" interface, move the cursor to select the saved preset position (0~9) and confirm with [OK] key.

Step 2 Use the direction key to select the "☑" icon and press the [OK] key to confirm to enter the preset position setup interface to edit the selected preset position.

Step 3 After the preset position successfully edited, press the [⤺] key to return to the main menu interface.

7.3.4 Delete the Preset Position

➢ **Operation**

Step 1 When in the "Preset Position" interface, move the cursor to select the saved preset position (0~9) and confirm with [OK] key.
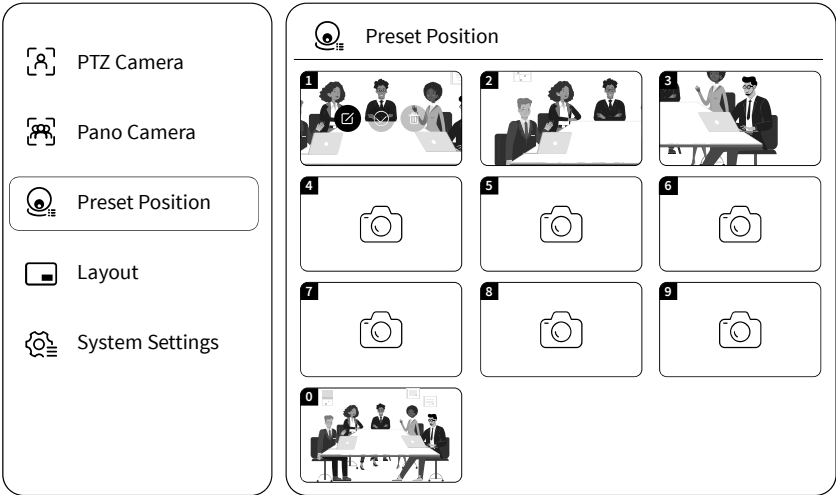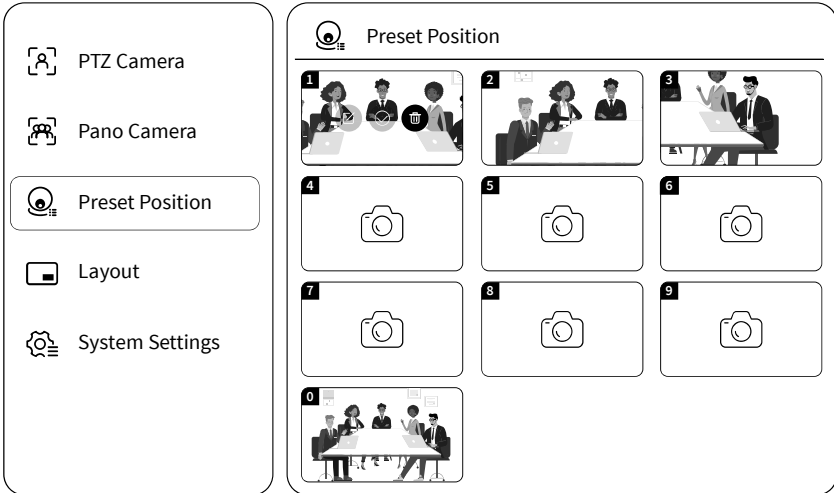

Step 2 Use the direction key to select the "🗑" icon and press the [OK] key to confirm to delete the selected preset position.
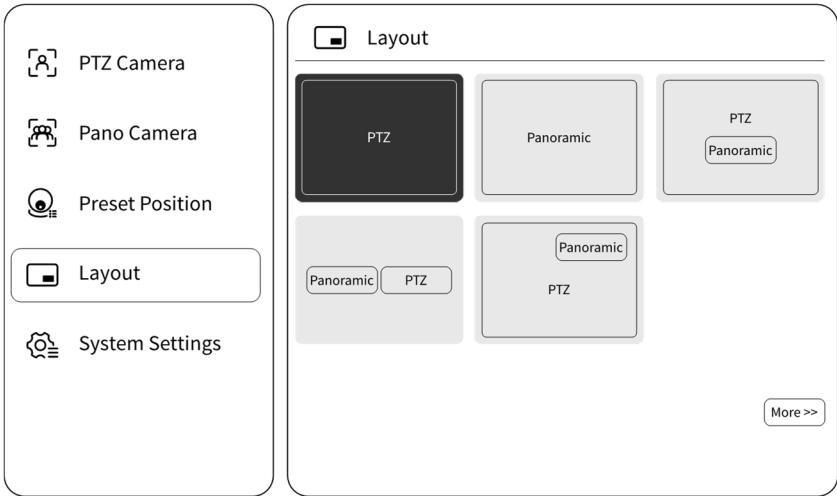
Step 3 Press the [↩] key to return to the main menu interface.

7.4 Layout

Camera supports multiple display layouts, such as single-screen full screen layout, picture-in-picture layout, side-by-side layout, etc.

➢ **Operation**

Step 1 When in the main menu interface, press the direction key to select and enter to the "Layout" interface as below.

Step 2 Move the cursor to select the picture layout and press the [OK] key to confirm.

Step 3 Press the [↩] key to return to the main menu interface.

Note

After an external camera or PC is connected to the HDMI IN interface, the screen will display the HDMI IN image. Press the [▤] key on the remote control to switch between HDMI IN or the screen projection instruction interface.

7.5 System Settings

When in the main menu interface, press the direction key to select "System Settings" and confirm with [OK] key to enter the system setting interface as below.
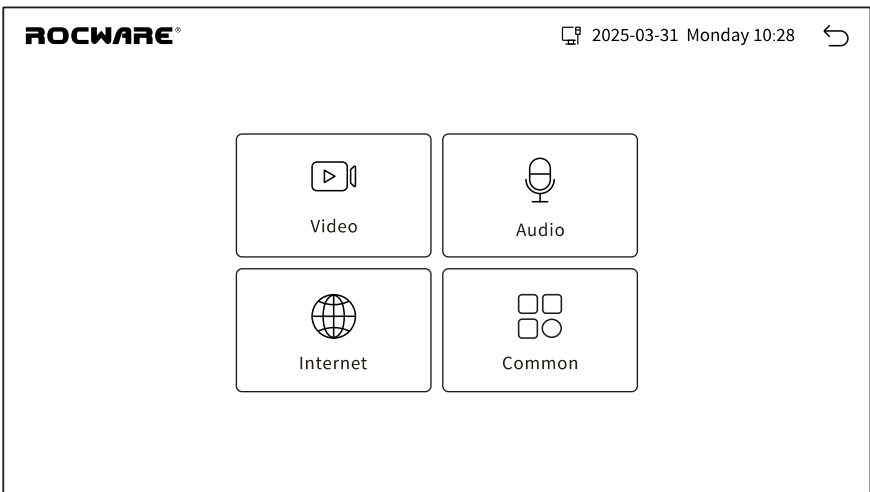
7.5.1 Video Setting

➢ **Operation**

Step 1 When in the System Setting interface, move the cursor to select "Video" and confirm with [OK] key.

Step 2 Configure the video parameters (see below table) and confirm with [OK] key.

Step 3 Press the [↰] key on remote control to save and return to the upper-level interface.

Parameter	Parameter Declaration	Parameter Setting
HDMI Output Resolution	Configure the HDMI output resolution: 4KP60, 4KP30, 1080P60, 720P60. Support EDID.	Default: 4KP30

7.5.2 Audio Setting

➢ **Operation**

Step 1 When in the System Setting interface, move the cursor to select "Audio" and confirm with [OK] key.

Step 2 Configure the audio parameters (see below table) and confirm with [OK] key.

Step 3 Press the [↩] key on remote control to save and return to the upper-level interface.

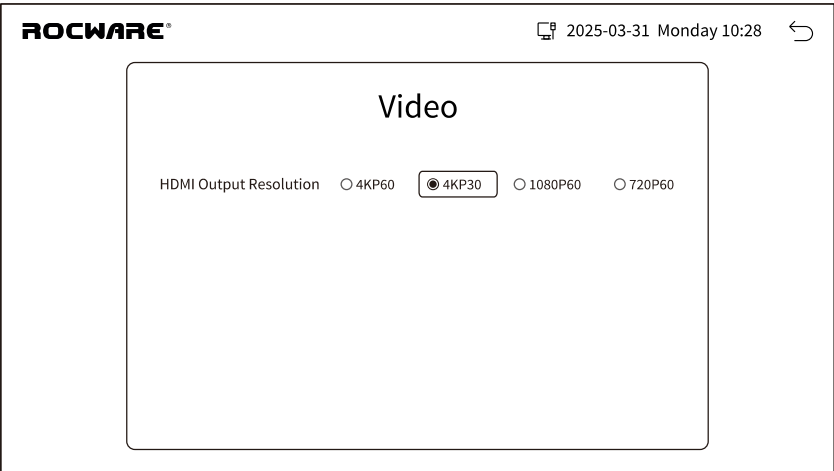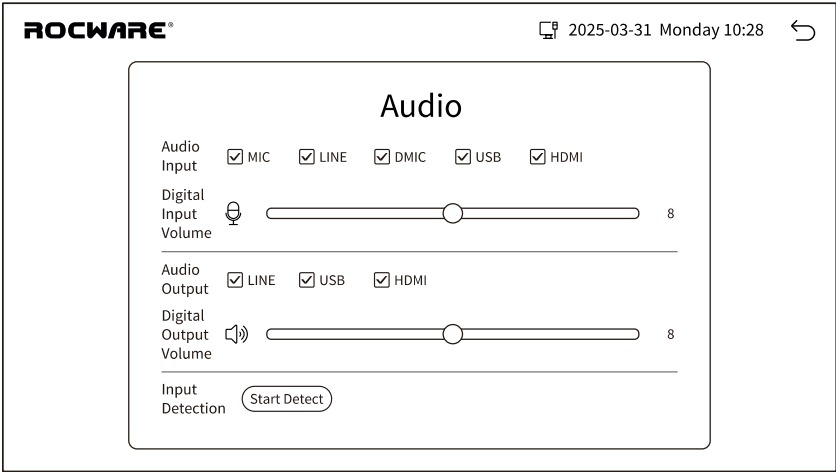| Parameter	Parameter Declaration	Parameter Setting
Audio Input	Select the audio input source: MIC, LINE, DMIC, USB, HDMI.	Default: All are checked
Digital Input Volume	Configure the digital input volume gain.	Default:8
Audio Output	Select the audio output source: LINE, USB, HDMI.	Default: All are checked
Digital Output Volume	Configure the digital output volume gain.	Default:8
Input Detection	Select "Start Detect" to enter the Microphone Detection interface and speak into the microphone to detect if the sound input is normal.	/

7.5.3 Internet

➢ **Operation**

Step 1 When in the System Setting interface, move the cursor to select "Internet" and confirm with [OK] key.

Step 2 Configure the internet parameters (see below table).

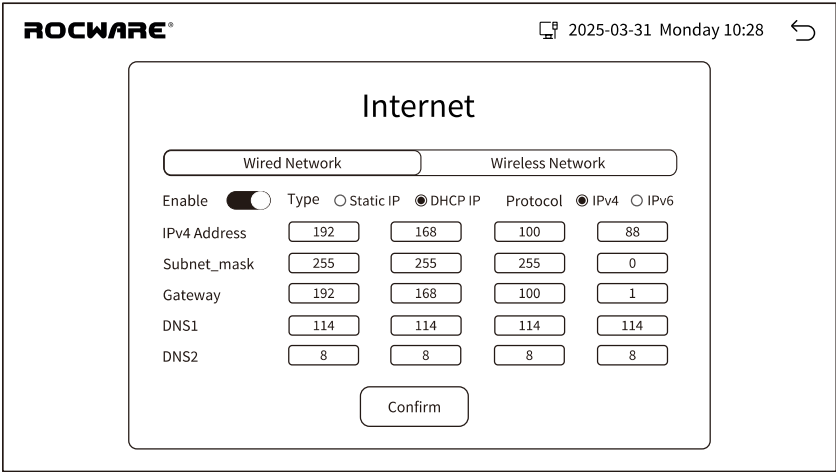**Step 3** When complete the configuring, select "Confirm" to send the IP configuration.

Step 4 Press the [↩] key on remote control to return to the upper-level interface.

Parameter	Parameter Declaration	Parameter Setting
Wired Network	Select the network type: Wired Network, Wireless Network. Note: Before use the wireless network, please disable the wired network first.	Default: Wired Network
Enable	Select to enable/disable the wired network.	Default: Enable
Type	Configure the network acquisition type: ● Static IP: The IP address of the camera is assigned by the network administrator. ● DHCP IP: Camera automatically obtains the IP address through the DHCP server.	Default: DHCP IP
Protocol	Configure the network protocol: IPv4, IPv6.	Default: IPv4
IPv4/6 Address	Configure the IP address of the camera.	Default: DHCP IP
Subnet Mask	Configure the subnet mask for the camera.	Default: DHCP IP
Gateway	Configure the gateway address corresponding to the camera's IP.	Default: DHCP IP
DNS	Configure the IP address of the DNS server.	Default: DHCP IP

7.5.4 Common

➢ **Operation**

Step 1 When in the System Setting interface, move the cursor to select "Common" and confirm with [OK] key.

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Common

Device Model	RC941	Serial Number	20250116076
Software Version	V0.0.17-20250402-UC	MAC Address	D4-E0-8E-13-B7-FF
Device IP	192.168.100.88	WiFi MAC Address	D4-E0-8E-15-B7-FF

Language   [English   ›]
Time Zone   [Eastern Time   ›]

Online
Upgrade   (Start)
                                        Restore Factory Settings (Start)
USB
Upgrade   (Start)

Step 2 Configure the common parameters (see below table) and confirm with [OK] key.

Step 3 Press the [↩] key on remote control to save and return to the upper-level interface.

Parameter	Parameter Declaration	Parameter Setting
Device Information	Display the Device Model, Software Version, Device IP, Serial Number, MAC Address and Wi-Fi MAC Address of the camera.	/
Language	Configurate the system language of the camera: English, 中文(简体).	Default: English
Time Zone	Select the time zone of the area.	Default: Eastern Time
Online Upgrade	When "Start" is selected, the camera will obtain the upgrade file from the specified HTTP server and upgrade as prompted.	/
USB Upgrade	When "Start" is selected, the camera automatically detects the new version in the USB flash drive and upgrades according to the prompts.	/
Restore Factory Settings	Click "Start" and select "Confirm" to restore the factory settings and restart the camera.	/

⚠ **Notice**

After restoring the factory setting, all the previously configured parameters will be lost. Please perform this operation with caution.

8   Troubleshooting

Image

● The monitor shows no image.

1) Ensure that the camera power supply is connected, the voltage is normal, and the power indicator is always on.
2) Turn off the power switch to check that the camera is self-testing.
3) Ensure the cable of the video platform and TV is in the correct connection.

Control

● Remote control cannot work

1) Check and replace with new batteries.
2) Check if the camera is in normal working mode.
3) Check if the remote control mode is compatible with the camera.

● Remote control cannot control PTZ

If the GUI interface shows a menu and PTZ cannot be controlled, press the return button on the remote control until the menu disappears.

AI

● Group Framing Positioning Error

Check if the rotation of the camera pan-tilt reaches the left and right limits properly. It is possible that the camera lens was manually adjusted earlier, causing the pan-tilt to lose position. Restarting the device to restore.

● Presenter Tracking Positioning Error

Check if the rotation of the camera pan-tilt reaches the left and right limits properly. It is possible that the camera lens was manually adjusted earlier, causing the pan-tilt to lose position. Restarting the device to restore.

● Gesture Activation of Presenter Tracking Mode Fails

1) The "OK" gesture might not be standard, causing the camera to fail to recognize it.

Adjust the gesture and ensure it faces directly towards the camera, wait until the green frame appears on the screen and hold the gesture for 4-6 seconds to activate properly.

2) When using the "OK" gesture to activate, the person should stay within 6 meters of the camera. Exceeding this distance may make the gesture appear too small in the video feed, making it difficult for the camera to recognize it accurately and leading to activation failure.
3) The "OK" gesture should be held for 4-6 seconds and waiting for the on-screen popup indicating that the tracking mode has been successfully activated before lowering the hand.

● Gesture Exit from Presenter Tracking Mode Fails

1) The exit gesture which clapping with five fingers facing the camera may not be standard, causing the camera to fail to recognize it. Adjust the gesture and ensure it faces directly towards the camera, avoid facing away from or sideways to the camera. Wait until the green frame appears on the screen and hold the gesture for 4-6 seconds to exit the tracking mode.
2) The exit gesture should be held for 4-6 seconds and waiting for the on-screen popup indicating that tracking mode has been successfully exited before lowering the hand.

● Presenter Tracking Mode Unable to Focus

Check if there are any objects blocking the camera's close-up shot. It is recommended that the camera be positioned at a height greater than 2 meters to reduce the impact of obstructions in front of the lens, ensuring proper detection and recognition.