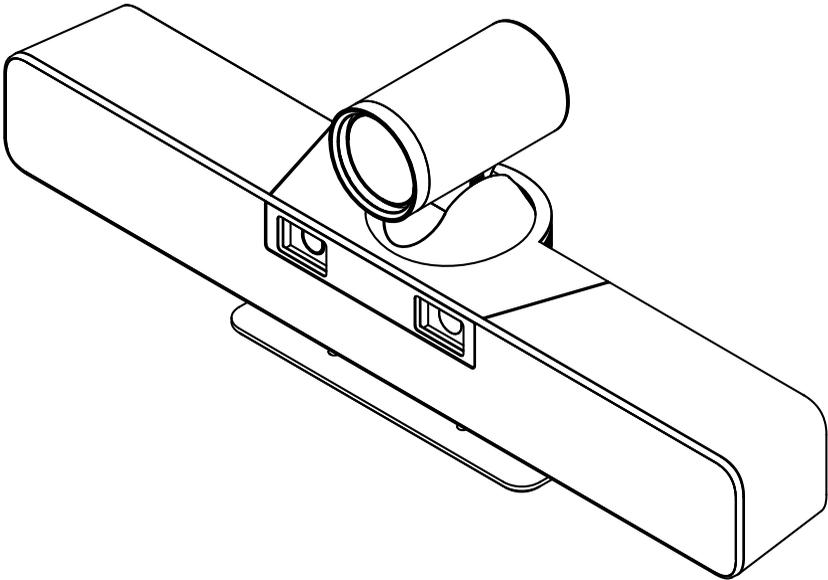


4K UHD Integrated Dual-Lens USB Camera

**SOLVISION
SVACW-300**



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.



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

FCC & IC Statement



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.



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.

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

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

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

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

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

Class A ITE

Class A ITE is a category of all other ITE which satisfies the class A ITE limits but not the class B ITE limits. Such equipment should not be restricted in its sale, but the following warning shall be included in the instructions for use:

European Community Compliance Statement (Class A)



This product is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive 2014/30/EU.

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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 12V 5A 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.



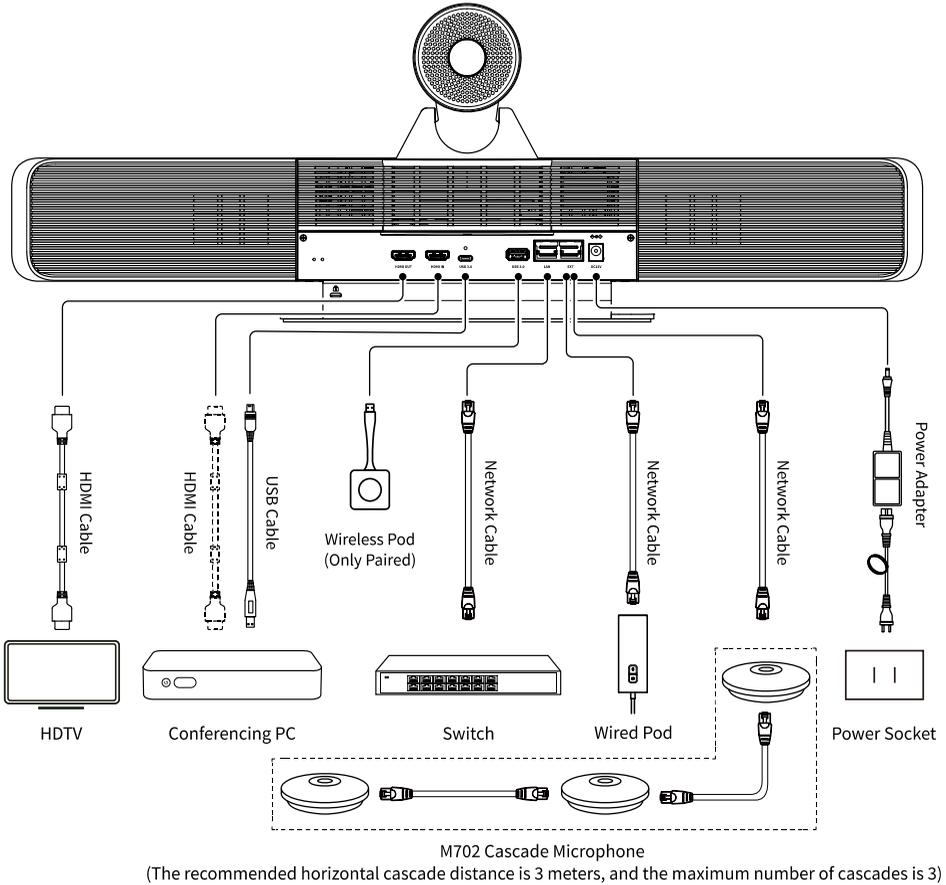
Running this device in a residential environment may cause radio interference.

2 Packing List

Name	Quantity
Camera (With Base)	1
Power Adapter	1
Remote Control	1
USB Cable	1
User Manual QR Code	1

3 Connection

The cable connection contains optional configurations and for reference only. Please connect the cables according to actual needs.



Note

When the device needs to switch between peripheral mode and BYOM mode, connect the HDMI OUT of the Conference PC to the HDMI IN interface of the Camera. If only using peripheral mode, please ignore this connection.

Instructions for SVY40 Wireless Pod:

Insert the wireless Pod into the USB 3.0 Type-A interface of the Camera, the blue indicator on the Pod will turn on, after approximately 5 seconds, the indicator will switch to red to indicate that the pairing is complete. Remove the Wireless Pod and connect it to the PC to enable the BYOM&BYOD functionality.

Instructions for SVY42 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 one end of an HDMI cable to the HDMI IN port of the Pod and the other end to the HDMI port of the PC;
- Or, connect the USB-C (DP-IN) cable of the Pod to the USB Type-A/C port of 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 breathing light). When pairing is successful, the sharing button will light solid blue.

Screen Sharing

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

4 About Product

4.1 Features

- **Binocular Collaborative Design**

The new binocular cooperative design, 120-degree 4K fixed-focus wide-angle lens, providing a stable wide-field panoramic detection view; 12x 4K optical zoom lens, ensuring that close-up zoomed images maintain high-definition detail presentation.

- **High Integration and All-in-one Design**

Integrated with a 4K ultra-high-definition close-up camera, a 4K panoramic high-definition camera, beamforming microphone, and full-range speaker in a three-in-one design, reducing wiring and making video communication effortless.

- **4K UHD**

Equipped with a high-quality 1/2.5-inch, 8.51-megapixel UHD CMOS sensor, delivering clear images with a 4K (3840x2160) ultra-high-definition resolution, and is downward compatible with various resolutions such as 1080P and 720P.

- **71° Wide-angle Lens + 12X Optical Zoom**

Equipped with a high-quality ultra-high-resolution 4K ultra-high-definition lens, with a maximum horizontal field of view of 71°, and supporting 12X optical zoom, ensuring that close-up zoomed images maintain high-definition clarity, offering an exceptional image quality experience.

- **Close-up Camera with Motorized Pan-Tilt Mechanism**

Built-in a proprietary motorized pan-tilt mechanism with a horizontal rotation range of up to $\pm 90^\circ$ and vertical rotation range from -23° to 23° .

- **Ultra-wide-angle Panoramic Detection**

120° 4K ultra-wide-angle panoramic camera provides an expansive field of view detection. Optional wall mount and TV mount brackets offer flexible installation in various settings.

- **Beamforming Microphone**

Built-in 6 beamforming microphones (BF), low-distortion lateral beamforming algorithm directs the microphone directly towards the speaker, better sound and enhancing communication clarity, richness, and realism. Supports cascading extended microphones for wider coverage of harmony distance.

- **Audio 3A Algorithm**

Built-in Audio 3A algorithm (AEC/AGC/ANS), full-duplex conversation and meeting the communication needs in different room structures, providing comfortable and clear communication whether seated at the conference table, next to it or standing.

- **Full-Range Speaker**

Full-range high-fidelity speaker with professional acoustic design, reducing sound interference and providing exceptional sound effects.

- **Group Framing**

Built-in intelligent automatic framing AI algorithm, combined with facial recognition, adjust the camera automatically to achieve the best composition as the number of seats in the meeting room changes.

- **Speaker Framing**

Built-in intelligent analysis and sound source localization algorithms, it can identify and locate sound sources. The system intelligently controls the variable focus lens to automatically track the speaker, switching to the speaker's image seamlessly, ensuring that the speaker is always clearly visible in the frame.

- **Smart Gallery**

Utilizing smart facial recognition AI algorithms, extract and intelligently arrange the close-up images of participants, enabling equal participation in meetings and more realistic face-to-face digital collaboration for remote participants.

- **BYOM & BYOD**

Built-in Wi-Fi module, supports wireless access for personal laptops to call video and audio, supports the wireless projection from computers to the device for HDMI local display.

- **Rich Interfaces**

Support multiple interface types including USB 3.0, HDMI, RJ45, etc., the USB3.0 enabling ultra-high-definition audio-video signal transmission.

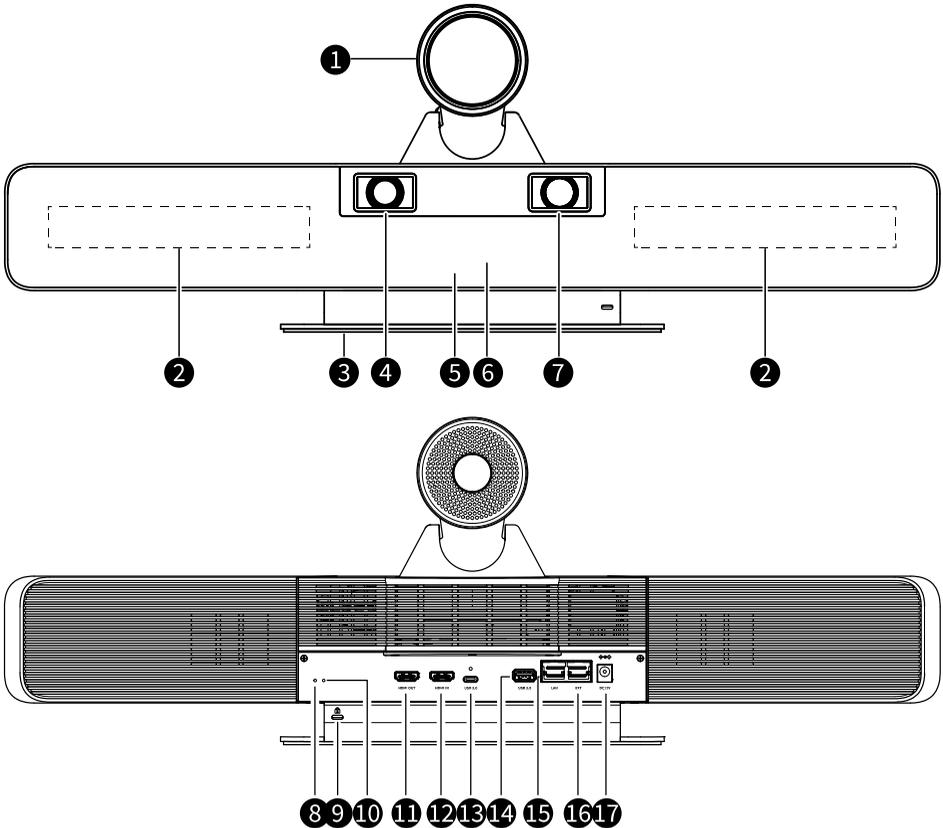
- **Plug and Play**

By connecting to a computer or commercial display screen via a plug-and-play USB interface, it enables out-of-the-box use, reduces wiring, facilitates video communication, and lowers the user's entry barrier.

- **Easy Deployment**

Flexible installation options such as tabletop placement, wall mounting, or attachment to TVs/displays, making it easier to deploy quickly in crowded meeting rooms.

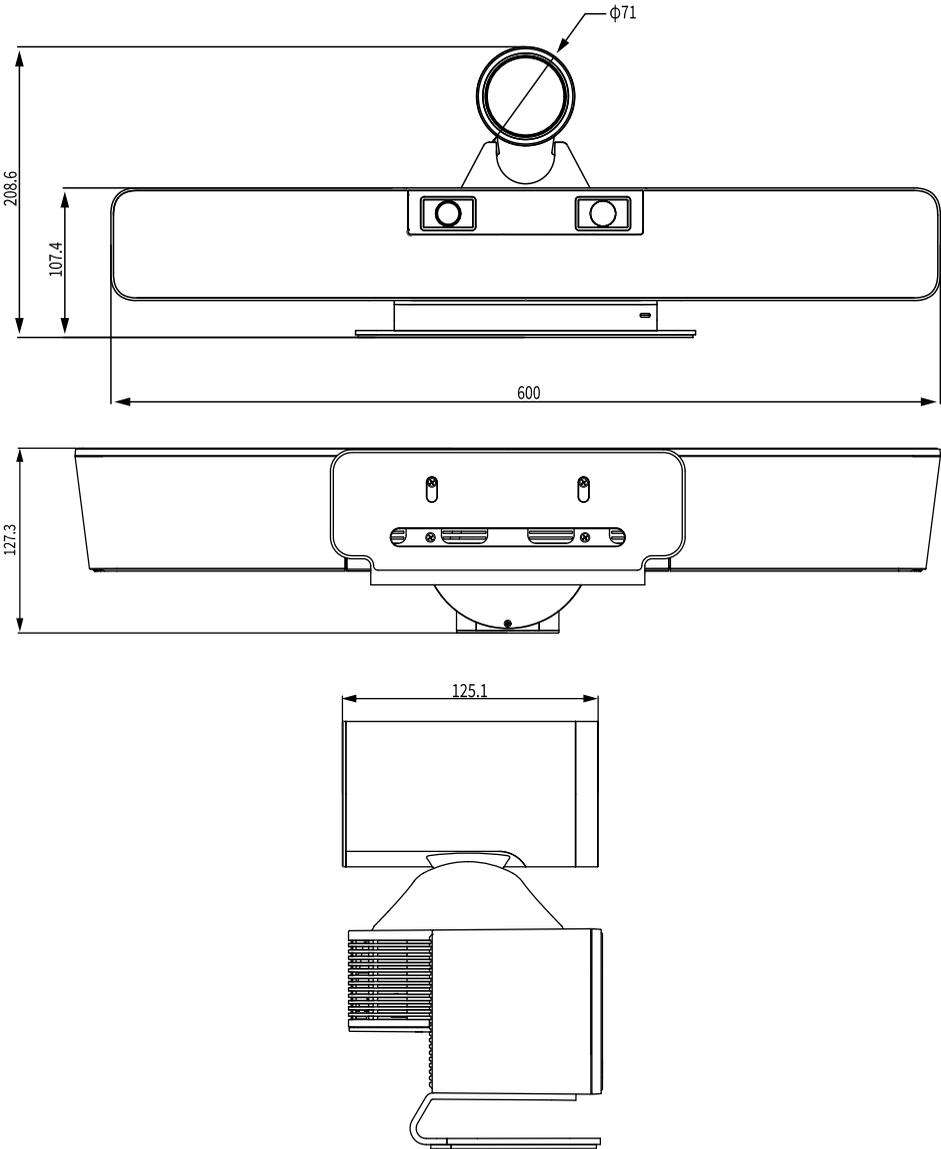
4.2 Appearance



No.	Name	No.	Name
1	Close-up Camera	10	Burning Port
2	Loudspeaker	11	HDMI OUT Interface
3	Base	12	HDMI IN Interface
4	Panorama Camera	13	USB 3.0 Type-C Interface
5	Microphone	14	USB 3.0 Type-A Interface
6	Status Indicator	15	LAN Interface
7	IR Window	16	EXT Interface
8	Reset Port	17	DC 12V Interface
9	Security Lock	-	-

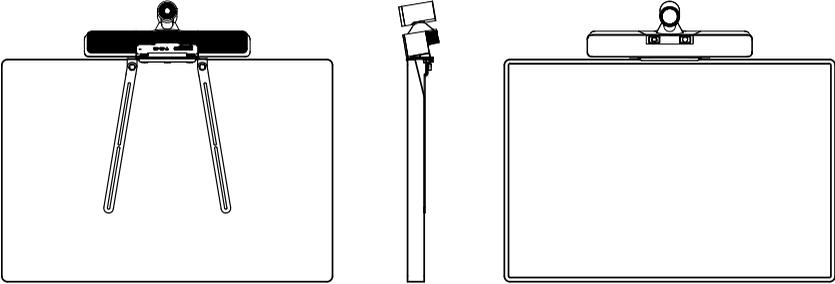
4.3 Dimension

Unit: mm

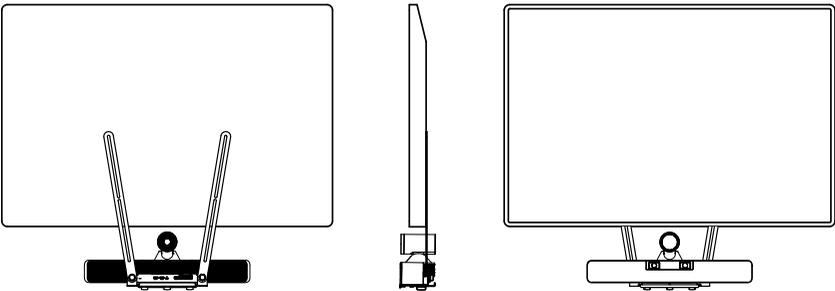


4.4 Installation

4.4.1 TV Mount (Optional)

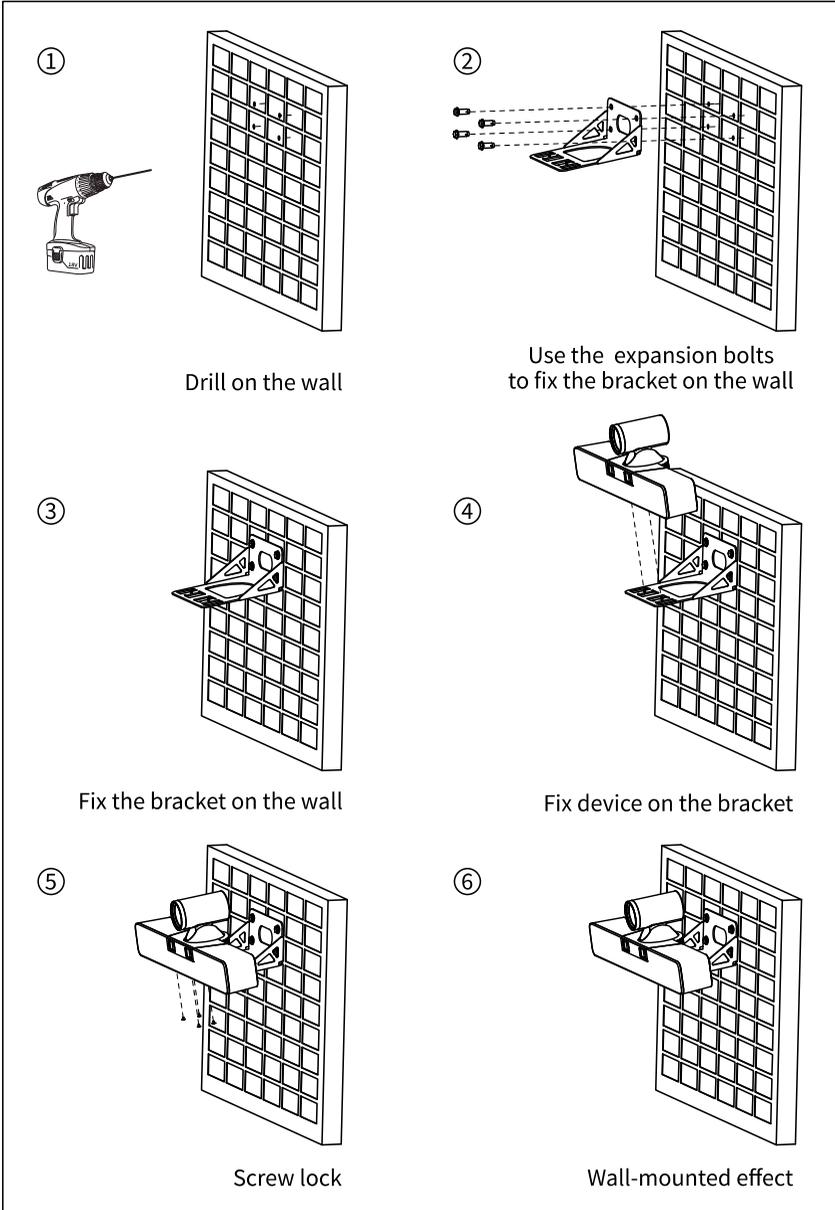


Top Installation



Bottom Installation

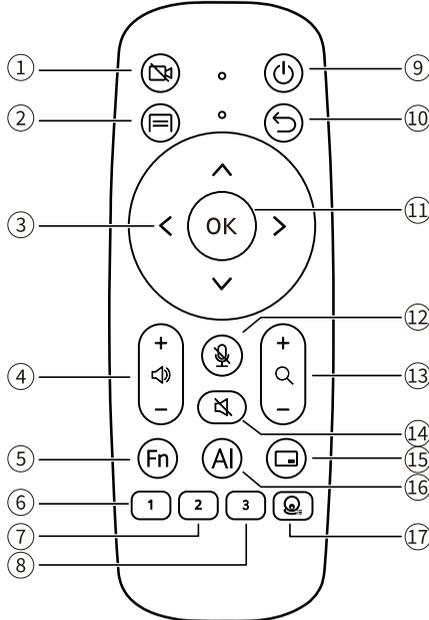
4.4.2 Wall Mount



Note

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

4.5 Remote Control



Key Description

1. Privacy Cover Switch

- When closing the video: The privacy cover of the panoramic camera closed, and the close-up camera turned to the privacy position
- When opening the video: The privacy cover of the panoramic camera opened, and the close-up camera returned to the previous position

2. Menu Key

Enter/Exit the OSD menu

3. Direction Keys

- Menu mode: Select and set the menu
- Non menu mode: Turn the close-up 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. Standby Key

Enter/Exit the standby mode

10. Return Key

- Menu mode: Return to the previous menu
- Tracking mode: Exit the tracking mode

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 repeatedly to switch the picture layout

16. AI Key

Press repeatedly to select and enable the Presenter Tracking, Smart Gallery, Speaker Framing, Group Framing or close the tracking function

17. Preset Key

Successively press [Preset] + Number key (1-3) to set the preset position

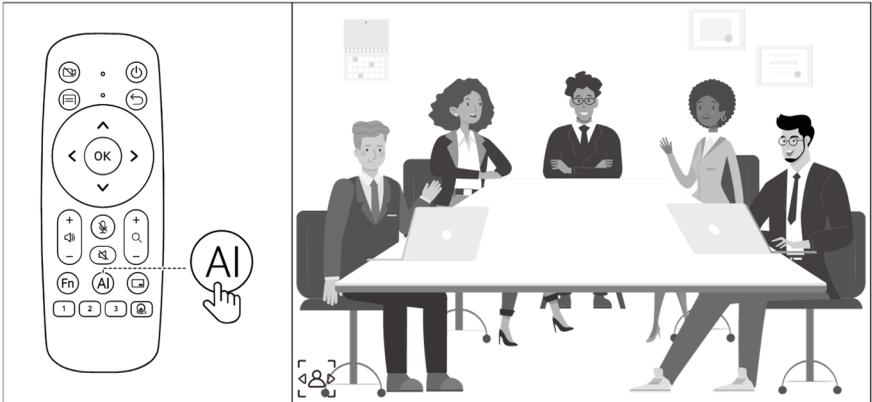
5 AI Tracking

Camera supports Presenter Tracking, Smart Gallery, Speaker Framing, Group Framing and Gesture Control tracking functions.

5.1 Presenter Tracking

➤ Operation

Step 1 Press the [AI] key on the remote control repeatedly to select the Presenter Tracking function, the “” icon will be displayed in the lower-left corner of the screen.



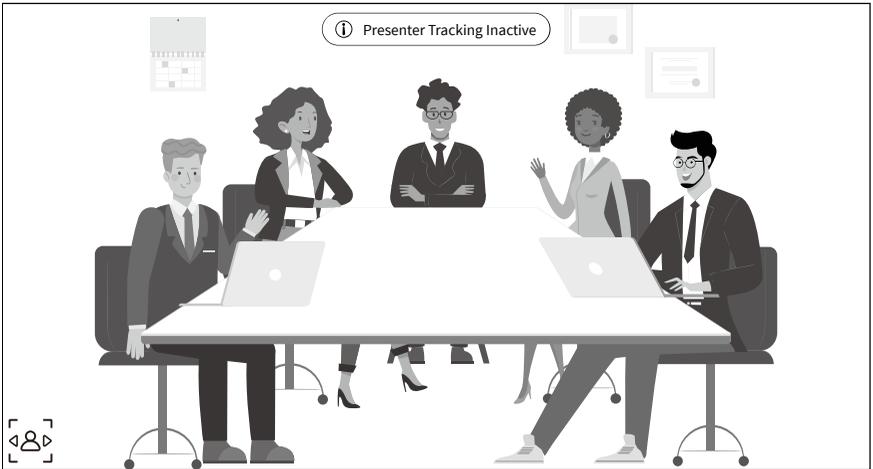
Step 2 Align the camera and make the “” gesture, the camera will automatically recognize and select the tracked person. When the tracked person is selected, the screen will display “Presenter Tracking Active”.



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 turned off and the screen will display “Presenter Tracking Inactive”.

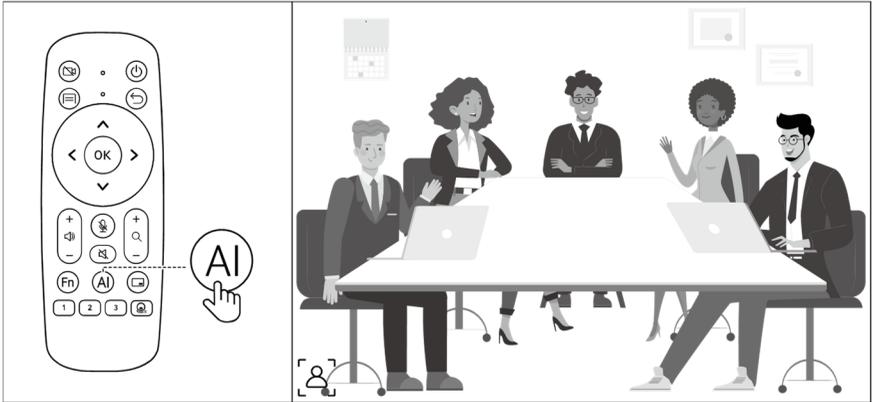


Step 5 Press the [] key on the remote control to exit the tracking mode.

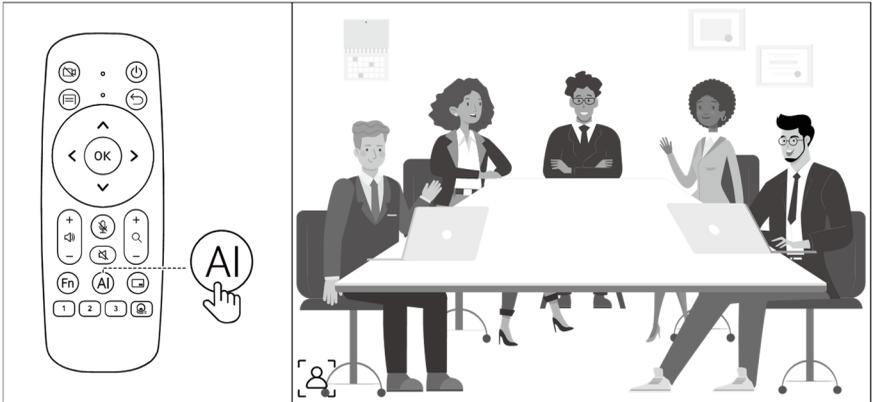
5.2 Speaker Framing

➤ Operation

Step 1 Press the [AI] key on the remote control repeatedly to select and enable the Speaker Framing function, the “” icon will be displayed in the lower-left corner of the screen.



Step 2 When the participant speaks, the camera will automatically lock the speaker's position and give a close-up image based on the sound source.



Step 3 Press the [↵] key on the remote control to exit the tracking mode.

5.3 Group Framing

➤ Operation

Step 1 Press the [AI] key on the remote control repeatedly to select and enable the Group Framing function, the “” icon will be displayed in the lower-left corner of the screen.



Step 2 When the participant moves, the camera will automatically adjust the image for the best composition using facial recognition.

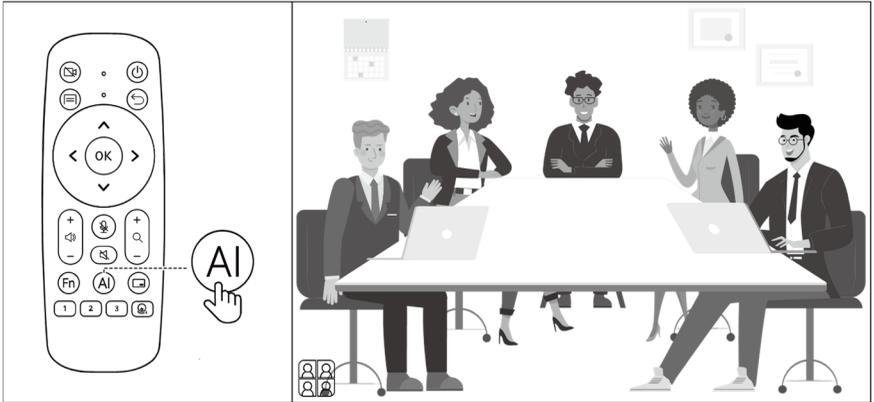


Step 3 Press the [↶] key on the remote control to exit the tracking mode.

5.4 Smart Gallery

➤ Operation

Step 1 Press the [AI] key on the remote control repeatedly to select and enable the Smart Gallery function, the “” icon will be displayed in the lower-left corner of the screen.



Step 2 The meeting layout will change according to the number of participants, and the close-up images of participants will be extracted and arranged intelligently (refer to the below figure for specific layouts).



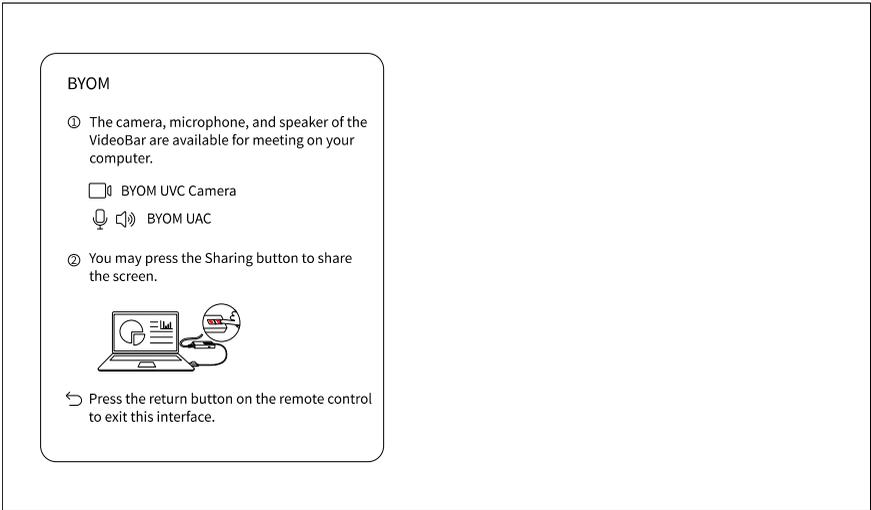
Step 3 Press the [↶] key on the remote control to exit the tracking mode.

6 BYOM

Camera supports wired screen sharing to share the input audio and video sources to the VideoBar, which then outputs to TV or other display devices. It also supports BYOM to transfer the audio and video sources from the VideoBar to PC via USB. After enabling the Power Interface in the menu, the camera will display the BYOM instruction interface when it starts up.

➤ Operation

Step 1 Press the [Menu] key on the remote control to select “General Setting > Power Interface > On” to enable the BYOM instruction interface to be displayed when the Camera starts up.



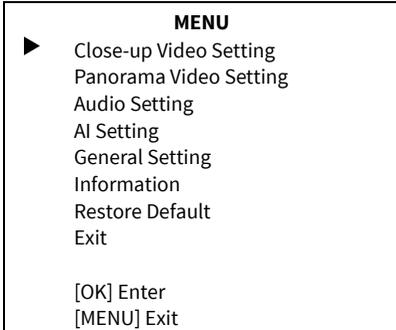
Step 2 Please refer to the instructions to complete the operation and share the screen of PC to VideoBar.

Step 3 Press the [↵] key on the remote control to exit the BYOM instruction interface.

7 GUI Menu

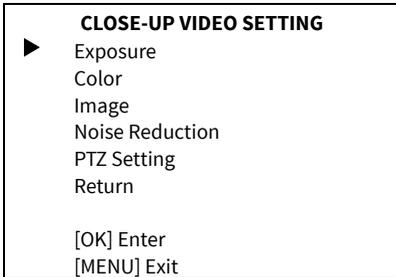
7.1 MENU

Press the [MENU] key to display the main menu. Use the arrow key to move the cursor to the desired item and press the [OK] key to confirm to enter the sub-menu.



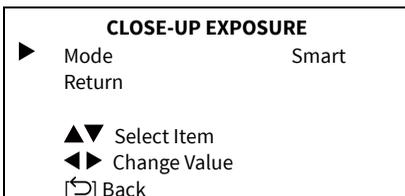
7.2 CLOSE-UP VIDEO SETTING

Move the cursor in the main menu to select “Close-up Video Setting” and press the [OK] key to enter the Close-up Video Setting interface.



7.2.1 EXPOSURE

Move the cursor in the Close-up Video Setting menu to select “Exposure” and press the [OK] key to enter the Close-up Exposure interface.



Mode: Smart, Full Auto, Manual, SAE, AAE, Bright.
ExpCompMode (Exposure Compensation Mode): On, Off (Effective in Full Auto mode).

ExpComp (Exposure Compensation Value): -7~7 (Effective in ExpCompMode On).

GainLimit: 0~15 (Effective in Full Auto, AAE, Bright mode).

Metering: Average, Center, Bottom, Top (Effective in Full Auto, AAE, Bright mode).

Backlight: On, Off (Effective in Full Auto 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: 1/30s, 1/60s, 1/90s, 1/100s, 1/125s, 1/200s, 1/250s, 1/350s, 1/500s, 1/725s, 1/1000s, 1/1500s, 1/2000s, 1/3000s, 1/4000s, 1/6000s, 1/10000s (Effective in Manual, SAE mode).

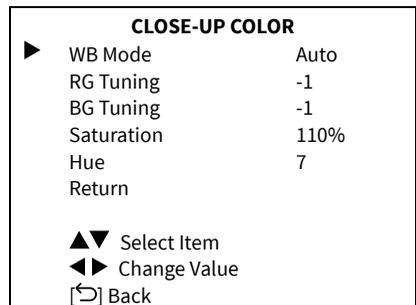
Gain: 0~7 (Effective in Manual mode).

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

DRC Strength: 0~8.

7.2.2 COLOR

Move the cursor in the Close-up Video Setting menu to select “Color” and press the [OK] key to enter the Close-up Color interface.



WB Mode (White Balance Mode): Auto, One Push, Manual, VAR.

RG Tuning (Red Gain Tuning): -10~10 (Effective in Auto, One Push, VAR mode).

BG Tuning (Blue Gain Tuning): -10~10 (Effective in Auto, One Push, VAR mode).

Red Gain: 0~255 (Effective in Manual mode).

Blue Gain: 0~255 (Effective in Manual mode).

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

Saturation: 60%~200%.

Hue: 0~14.

7.2.3 IMAGE

Move the cursor in the Close-up Video Setting menu to select “Image” and press the [OK] key to enter the Close-up Image interface.

CLOSE-UP IMAGE	
▶ Luminance	7
Contrast	7
Sharpness	Auto
Gamma	EXT
Style	Default
Return	
▲▼ Select Item	
◀▶ Change Value	
[↶] Back	

Luminance: 0~14.

Contrast: 0~14.

Sharpness: 0~15, Auto.

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

Style: Default.

7.2.4 NOISE REDUCTION

Move the cursor in the Close-up Video Setting menu to select “Noise Reduction” and press the [OK] key to enter the Close-up Noise Reduction interface.

CLOSE-UP NOISE REDUCTION	
▶ 2D NR	1
3D NR	Auto
Return	
▲▼ Select Item	
◀▶ Change Value	
[↶] Back	

2D NR (2D Noise Reduction): Off, Auto, 1~5.

3D NR (3D Noise Reduction): Off, Auto, 1~8.

7.2.5 P/T/Z Setting

Move the cursor in the Close-up Video Setting menu to select “P/T/Z Setting” and press the [OK] key to enter the Close-up P/T/Z Setting interface.

CLOSE-UP P/T/Z SETTING	
▶ AF-Sense	Low
AF-Zone	Front
Speed By Zoom	On
Image Freeze	Off
Call Preset Speed	18
Pre Zoom Speed	5
Return	
[MENU] Return / [HOME] Enter	

AF-Sense: Low, High, Normal.

AF-Zone: Front, Top, Middle, Bottom.

Speed By Zoom: On, Off.

Image Freeze: On, Off.

Call Preset Speed: 1~24.

Pre Zoom Speed: 0~7.

7.3 Panorama VIDEO SETTING

Move the cursor in the main menu to select “Panorama Video Setting” and press the [OK] key to enter the Panorama Video Setting interface.

PANORAMA VIDEO SETTING	
▶ Exposure	
Color	
Image	
Noise Reduction	
Return	
[OK] Enter	
[MENU] Exit	

7.3.1 EXPOSURE

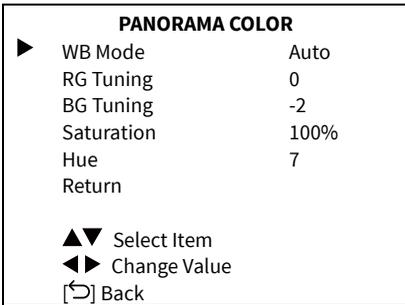
Move the cursor in the Panorama Video Setting menu to select “Exposure” and press the [OK] key to enter the Panorama Exposure interface.

PANORAMA EXPOSURE	
▶ Mode	Full Auto
ExpCompMode	Off
Gain Limit	8
Metering	Average
Backlight	Off
DRC Strength	2
Return	
▲▼ Select Item	
◀▶ Change Value	
[↶] Back	

- Mode:** Full Auto, Manual, SAE, Bright.
- ExpCompMode** (Exposure Compensation Mode): On, Off (Effective in Full Auto mode).
- ExpComp** (Exposure Compensation Value): -7~7 (Effective in ExpCompMode On).
- GainLimit:** 0~15 (Effective in Full Auto, Bright mode).
- Metering:** Average, Center, Bottom, Top (Effective in Full Auto, Bright mode).
- Backlight:** On, Off (Effective in Full Auto mode).
- Shutter:** 1/30s, 1/60s, 1/90s, 1/100s, 1/125s, 1/200s, 1/250s, 1/350s, 1/500s, 1/725s, 1/1000s, 1/1500s, 1/2000s, 1/3000s, 1/4000s, 1/6000s, 1/10000s (Effective in Manual, SAE mode).
- Gain:** 0~7 (Effective in Manual mode).
- Bright:** 0~17 (Effective in Bright mode).
- DRC Strength:** 0~8.

7.3.2 COLOR

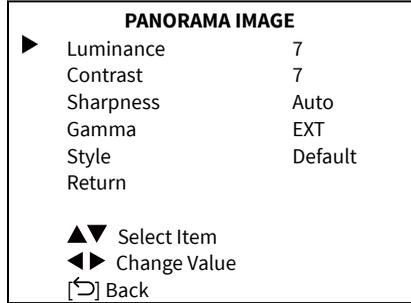
Move the cursor in the Panorama Video Setting menu to select “Color” and press the [OK] key to enter the Panorama Color interface.



- WB Mode** (White Balance Mode): Auto, One Push, Manual, VAR.
- RG Tuning** (Red Gain Tuning): -10~10 (Effective in Auto, One Push, VAR mode).
- BG Tuning** (Blue Gain Tuning): -10~10 (Effective in Auto, One Push, VAR mode).
- Red Gain:** 0~255 (Effective in Manual mode).
- Blue Gain:** 0~255 (Effective in Manual mode).
- ColorTemp:** 2500K~8000K (Effective in VAR mode).
- Saturation:** 60%~200%.
- Hue:** 0~14.

7.3.3 IMAGE

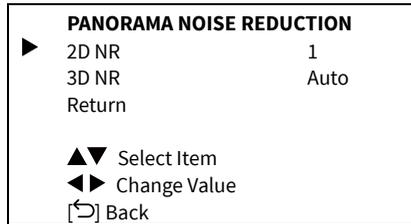
Move the cursor in the Panorama Video Setting menu to select “Image” and press the [OK] key to enter the Panorama Image interface.



- Luminance:** 0~14.
- Contrast:** 0~14.
- Sharpness:** 0~15, Auto.
- Gamma:** EXT, Default, 0.45, 0.5, 0.56, 0.63.
- Style:** Default.

7.3.4 NOISE REDUCTION

Move the cursor in the Panorama Video Setting menu to select “Noise Reduction” and press the [OK] key to enter the Panorama Noise Reduction interface.



- 2D NR** (2D Noise Reduction): Off, Auto, 1~5.
- 3D NR** (3D Noise Reduction): Off, Auto, 1~8.

7.4 AUDIO SETTING

Move the cursor in the main menu to select “Audio Setting” and press the [OK] key to enter the Audio Setting interface.

AUDIO SETTING	
▶ 3A Enable	On
EQ Mode	Off
Audio Enhancement	1
Return	
▲▼	Select Item
◀▶	Change Value
[↵]	Back

3A Enable: On, Off.

EQ Mode: On, Off.

Audio Enhancement: Close, 1~3.

7.5 AI SETTING

Move the cursor in the main menu to select “AI Setting” and press the [OK] key to enter the AI Setting interface.

AI SETTING	
▶ AI Mode	Off
Return	
▲▼	Select Item
◀▶	Change Value
[↵]	Back

AI Mode: Off, Presenter Tracking, Smart Gallery, Speaker Framing, Group Framing.

AI Sub Mode: Close-up Mode, Auto Mode (Effective in Speaker Framing mode).

7.6 GENERAL SETTING

Move the cursor in the main menu to select “General Setting” and press the [OK] key to enter the General Setting interface.

GENERAL SETTING	
▶ Language	English
View Setting	Close-up
OSD Mirroring	Off
HDMI Format	4K30
Flip-H	Off
Flip-V	Off
Backlight Enable	Off
Osdprompts	On
Anti Flicker	50Hz
Power Interface	Off
Privacy Policy	Off
Return	
▲▼	Select Item
◀▶	Change Value
[↵]	Back

Language: English, 中文.

View Setting: Close-up, Panorama, Close-up_pip, Panorama_pip.

OSD Mirroring: On, Off.

HDMI Format: 4KP30, 1080P60, 1080P50, 1080P30, 480P60.

Flip-H: On, Off.

Flip-V: On, Off.

Backlight Enable: On, Off (restart takes effect).

Osdprompts: On, Off.

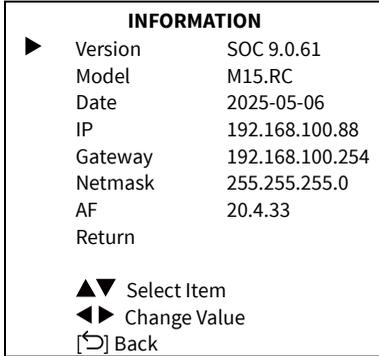
Anti Flicker: Off, 50Hz, 60Hz.

Power Interface: On, Off.

Privacy Policy: On, Off.

7.7 INFORMATION

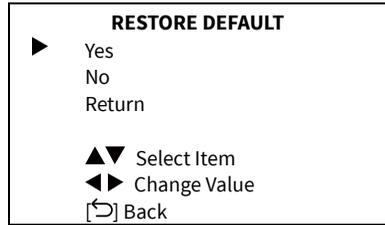
Move the cursor in the main menu to select “Information” and press the [OK] key to enter the Information interface to check the device information.



The above information is only for reference, please refer to the real product for the actual specifications.

7.8 RESTORE DEFAULT

Move the cursor in the main menu to select “Restore Default” and press the [OK] key to enter the Restore Default interface.



Restore Default: Yes, No.



Notice

When selecting “Yes” and confirming with the [OK] key, all parameters will be restored to default.

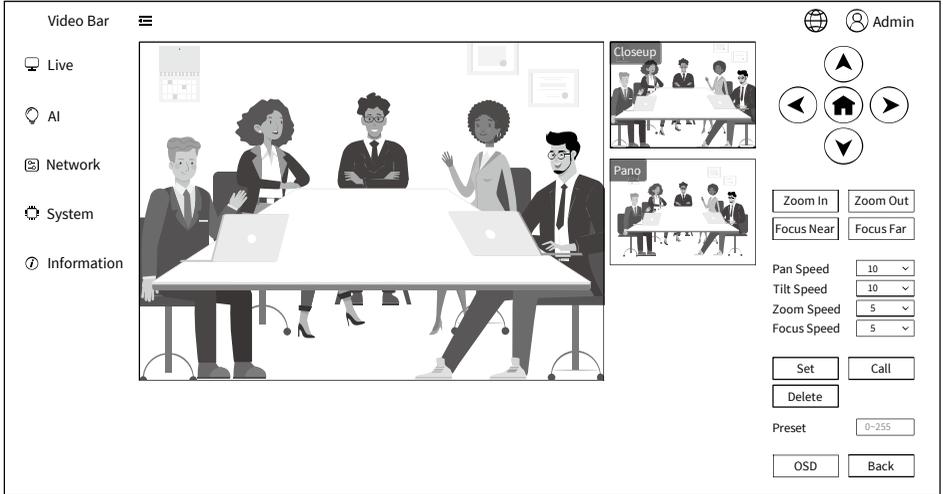


Note

GUI menu and device information are subject to change without notice.

8 WEB Settings

Access the camera’s IP address in the browser (default: 192.168.100.88) to pop up the login window, input the username (default: admin) and password (default: admin) and click the “Submit” to enter the WEB page as below:



8.1 Control Camera

A. Video Display Window

The video display window matches the video resolution, the larger the resolution, the larger the window. Double click the display window to enter or exit the full-screen mode.

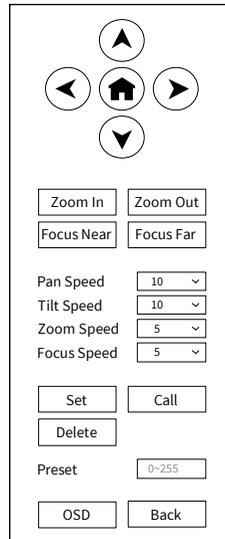
The status bar is located below the display window is shown as below:



⏸: Pause button

⏏: Full screen button

B. PTZ



Pan and Tilt Control

Click the arrow buttons to turn PTZ to up, down, left and right, click the HOME button to return it to the middle position.

Zoom

Zoom In/Zoom Out camera lens.

Focus

Focus In/Focus Out.

PTZ Speeds

The Pan speed value can be set to 1~24; the Tilt speed value can be set to 1~20; the Zoom and Focus speed value can be set to 1~7.

Presets

Use the arrow button to turn the PTZ to the desired position, enter a preset number (0~255) in the preset box and click the "Set" button to save. When the PTZ turn to another position, enter the preset number and click the "Call" button to return the PTZ to the preset position. Click the "Delete" button to clear the saved presets.

OSD

Click the "OSD" button, the on-screen menu will appear in the upper-left corner of the video display window. Use the up and down arrow buttons to select the menu, click the HOME button to confirm and enter the sub-menu, and use the left and right arrow buttons to change the sub-menu parameters. After making changes, click the 'Back' button to save the settings and return to the previous menu.

C. Language

Click the "🌐" button to display the language box, select to change the language of the webpage.

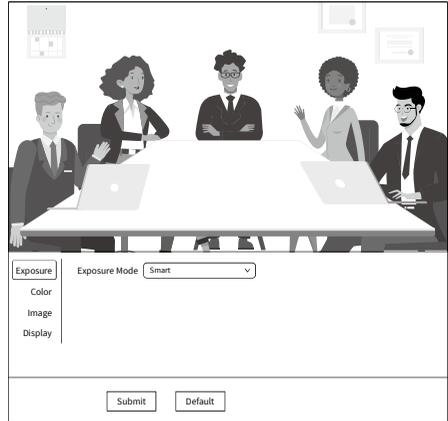
D. Admin

Home: Return to the home page of the WEB.

Logout: Exit to the WEB login page.

8.2 Live (Closeup)

8.2.1 Exposure



Exposure Mode: Full Auto, Manual, Shutter Priority, Iris Priority, Bright Priority, Smart.

ExpComp Mode (Exposure Compensation Mode): On, Off (Effective in Full Auto mode).

ExpComp (Exposure Compensation Value): -7~7 (Effective in ExpComp Mode On).

Gain Limit: 0~15 (Effective in Full Auto, Iris Priority, Bright Priority mode).

Metering Mode: Average, Center, Bottom, Top (Effective in Full Auto, Iris Priority, Bright Priority mode).

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

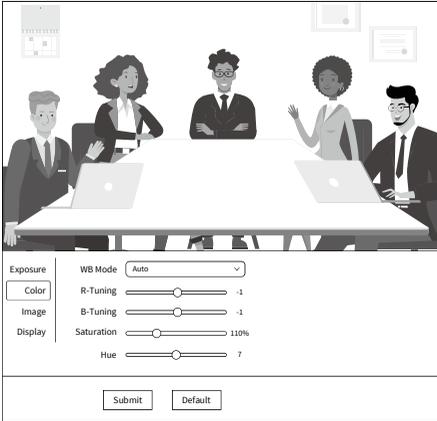
Shutter: 1/30s, 1/60s, 1/90s, 1/100s, 1/125s, 1/200s, 1/250s, 1/350s, 1/500s, 1/725s, 1/1000s, 1/1500s, 1/2000s, 1/3000s, 1/4000s, 1/6000s, 1/10000s (Effective in Manual, Shutter Priority mode).

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

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

DRC: 0~8.

8.2.2 Color



WB Mode (White Balance Mode): Auto, One Push, Manual, Temp.

R-Tuning (Red Gain Tuning): -10~10 (Effective in Auto, One Push, Temp mode).

B-Tuning (Blue Gain Tuning): -10~10 (Effective in Auto, One Push, Temp mode).

R-Gain: 0~255 (Effective in Manual mode).

B-Gain: 0~255 (Effective in Manual mode).

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

Saturation: 60%~200%.

Hue: 0~14.

8.2.3 Image



Style: Default.

Brightness: 0~14.

Contrast: 0~14.

Sharpness: 0~15, Auto.

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

2D NR (2D Noise Reduction): Off, 1~5, Auto.

3D NR (3D Noise Reduction): Off, 1~8, Auto.

8.2.4 Display



OSD-Dir: On, Off.

Flip-H: On, Off.

Flip-V: On, Off.

Video Format: 4KP30, 1080P60, 1080P50, 1080P30, 480P60.

OSD Tips: On, Off.

Views: Closeup-Pano, Pano-Closeup, Closeup, Pano.

8.3 Live (Pano)

8.3.1 Exposure



Exposure Mode: Full Auto ▼ DRC: 0 ▬ 2

Color ExpComp Mode: On Off

Image Gain Limit: 0 ▬ 8

Display Metering Mode: Average ▼

Backlight: On Off

Submit Default

Exposure Mode: Full Auto, Manual, Shutter Priority, Bright Priority.

ExpComp Mode (Exposure Compensation Mode): On, Off (Effective in Full Auto mode).

ExpComp (Exposure Compensation Value): -7~7 (Effective in ExpCompMode On).

Gain Limit: 0~15 (Effective in Full Auto, Bright Priority mode).

Metering Mode: Average, Center, Bottom, Top (Effective in Full Auto, Bright Priority mode).

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

Shutter: 1/30s, 1/60s, 1/90s, 1/100s, 1/125s, 1/200s, 1/250s, 1/350s, 1/500s, 1/725s, 1/1000s, 1/1500s, 1/2000s, 1/3000s, 1/4000s, 1/6000s, 1/10000s (Effective in Manual, Shutter Priority mode).

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

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

DRC: 0~8.

8.3.2 Color



Exposure WB Mode: Auto ▼

Color R-Tuning: 0 ▬

Image B-Tuning: -2 ▬

Display Saturation: 100% ▬

Hue: 0 ▬ 7

Submit Default

WB Mode (White Balance Mode): Auto, One Push, Manual, Temp.

R-Tuning (Red Gain Tuning): -10~10 (Effective in Auto, One Push, Temp mode).

B-Tuning (Blue Gain Tuning): -10~10 (Effective in Auto, One Push, Temp mode).

R-Gain: 0~255 (Effective in Manual mode).

B-Gain: 0~255 (Effective in Manual mode).

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

Saturation: 60%~200%.

Hue: 0~14.

8.3.3 Image



Exposure Style: Default ▼ 2D NR: 0 ▬ 1

Color Brightness: 7 ▬ 3D NR: Auto ▬

Image Contrast: 7 ▬

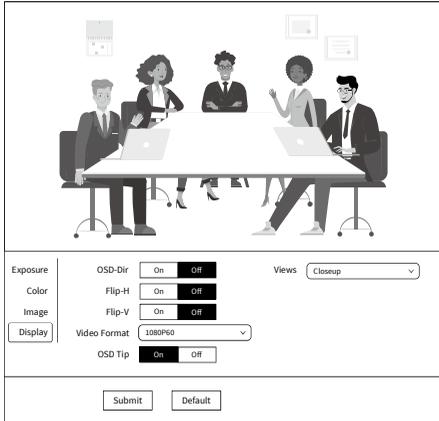
Display Sharpness: Auto ▬

Gamma: EXT ▼

Submit Default

- Style:** Default.
- Brightness:** 0~14.
- Contrast:** 0~14.
- Sharpness:** 0~15, Auto.
- Gamma:** Default, 0.45, 0.5, 0.56, 0.63, EXT.
- 2D NR (2D Noise Reduction):** Off, 1~5, Auto.
- 3D NR (3D Noise Reduction):** Off, 1~8, Auto.

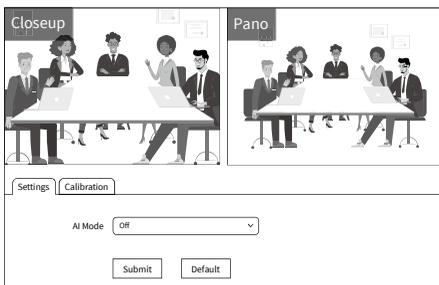
8.3.4 Display



- OSD-Dir:** On, Off.
- Flip-H:** On, Off.
- Flip-V:** On, Off.
- Video Format:** 4KP30, 1080P60, 1080P50, 1080P30, 480P60.
- OSD Tips:** On, Off.
- Views:** Closeup-Pano, Pano-Closeup, Closeup, Pano.

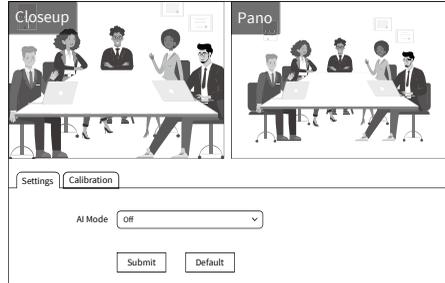
8.4 AI

8.4.1 Settings



- AI Mode:** Off, Presenter Tracking, Smart Gallery, Speaker Framing, Group Framing.
- Track Guard:** On, Off (Effective in Smart Gallery mode).
- Response Speed:** Low, Median, Fast (Effective in Speaker Framing mode).

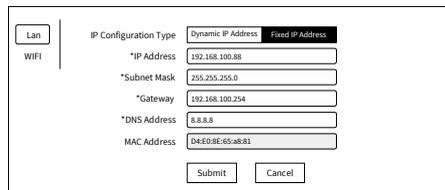
8.4.2 Calibration



The camera calibration function has been configured before leaving the factory. If you need to reconfigure it, please contact the device manufacturer.

8.5 Network

8.5.1 Lan



The default IP address of Lan is 192.168.100.88. The MAC address cannot be changed.

8.5.2 WIFI

Channel	Frequency	Signal	WiFi SSID
36	5.18GHz	-35dBm strong	VQ Office
40	5.18GHz	-40dBm strong	Test
44	5.22GHz	-50dBm medium	Meeting Room
44	5.22GHz	-70dBm medium	Image Test
48	5.22GHz	-75dBm weak	Hardware
153	5.18GHz	-90dBm weak	MES2025
161	5.18GHz	-95dBm weak	Guest

WiFi SSID: Display the current WiFi name.

Current Channel: Display the current channel value.

Current Frequency: Display the current frequency value.

Current Signal: Display the current signal value.

WiFi List: Click “Refresh” button to refresh the WiFi hotspot.

Channel Setting: Auto, 36, 40, 44, 48,153, 161.



- The WiFi SSID, Current Channel, Current Frequency, Current Signal cannot be changed.
- When the Current Signal is 0dBm, it indicates that no other devices are connected to this device via the hotspot.

8.6 System

8.6.1 Initialize

Reboot

Click the “Reboot” button to pop up “Please press OK to reboot the camera.” prompt box, select “OK” to restart the system.

Factory Default

Click the “Factory Default” button to pop up “Would you like to restart and restore factory settings?” prompt box, select “OK” to restore the factory settings.

8.6.2 User

User Management

Change the user’s login password (Only letters, numbers and symbols +,*,/^\$&_., are supported).

Guest Management

Change the guest’s login password (Only letters, numbers and symbols +,*,/^\$&_., are supported).

8.6.3 Log

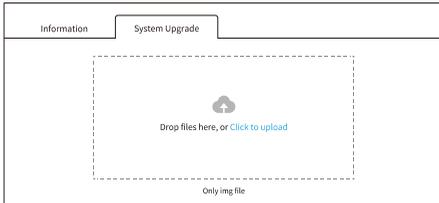
Click the “Download Log” button to download the logs to the local device for system issue troubleshooting.

8.7 Information

8.7.1 Information

Displays the current camera's Device ID, Device Type, Software Version, Version Date, Webware Version and MAC Address.

8.7.2 System Upgrade



Camera supports online upgrades. Drag the upgrade package into the system upgrade box, or click “Click to upload” to select the upgrade package and follow the on-screen instructions to upgrade the system.



Note
WEB interface and device information are subject to change without notice.

9 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.
- Image jitters after the camera is connected correctly.
 - 1) Ensure that the camera installation is in a stable position.
 - 2) Check if any vibrating machinery or object is near the camera.
- There is no video image in the browser.

IE browser and IE core browser are not supported, the camera video image will be displayed correctly when using Google, Firefox, Edge, etc.

- Unable to access through the browser.
 - 1) Use a PC to connect to the network to test whether the network access is functional. Eliminate network faults that may be caused by cable faults and viruses until the PC and the camera can pass the Ping test.
 - 2) Disconnect the network, connect the camera with the PC separately and reset the PC's IP address if necessary.
 - 3) Ensure that the IP address, subnet mask and gateway settings are correct.
 - 4) Check if the MAC address conflicts.
 - 5) Check if the web port is modified. The default setting is 80.
- Forget the IP address or login password.

The default IP address is: 192.168.100.88; the default username and password are: admin (After changing the password, please log in with the new password).

Control

- Remote control malfunctioning.
 - 1) Check and replace with new batteries.
 - 2) Ensure that the camera working mode is correct.

Visca-Control Command				
No.	Function	Test items	Send command	Instruction
1	CAM_Zoom	Stop	8x 01 04 07 00 FF	
		Tele(Standard)	8x 01 04 07 02 FF	
		Wide(Standard)	8x 01 04 07 03 FF	
		Tele(Variable)	8x 01 04 07 2p FF	p = 0(low) - 7(high)
		Wide(Variable)	8x 01 04 07 3p FF	
		Direct	8x 01 04 47 0p 0q 0r 0s FF	pqrs: Zoom Position pqrs Max:4000
2	CAM_Focus	Stop	8x 01 04 08 00 FF	
		Far(Standard)	8x 01 04 08 02 FF	
		Near(Standard)	8x 01 04 08 03 FF	
		Far(Variable)	8x 01 04 08 2p FF	p = 0(low) - 7(high)
		Near(Variable)	8x 01 04 08 3p FF	
		Direct	8x 01 04 48 0p 0q 0r 0s FF	pqrs: Focus Position
		Auto Focus	8x 01 04 38 02 FF	AF On/Off
		Manual Focus	8x 01 04 38 03 FF	
Auto/Manual	8x 01 04 38 10 FF			
4	CAM_WB	Auto	8x 01 04 35 00 FF	Normal Auto
		Indoor mode	8x 01 04 35 01 FF	Indoor mode
		Outdoor mode	8x 01 04 35 02 FF	Outdoor mode
		One Push mode	8x 01 04 35 03 FF	One Push WB mode
		Manual	8x 01 04 35 05 FF	Manual Control mode
		One Push trigger	8x 01 04 10 05 FF	One Push WB Trigger
		VAR	8x 01 04 35 20 FF	
5	Color temperature	up	8x 01 04 20 02 FF	
		down	8x 01 04 20 03 FF	
		reset	8x 01 04 20 00 FF	
		direct	8x 01 04 20 00 xx FF	
6	CAM Rgain	Reset	8x 01 04 03 00 FF	Manual Control of R Gain
		Up	8x 01 04 03 02 FF	
		Down	8x 01 04 03 03 FF	
		Direct	8x 01 04 43 00 00 0p 0q FF	
7	CAM Bgain	Reset	8x 01 04 04 00 FF	Manual Control of B Gain
		Up	8x 01 04 04 02 FF	
		Down	8x 01 04 04 03 FF	
		Direct	8x 01 04 44 00 00 0p 0q FF	pq: B Gain
8	CAM_AE mode	Full Auto	8x 01 04 39 00 FF	Automatic Exposure mode
		Manual	8x 01 04 39 03 FF	Manual Control mode
		Shutter priority	8x 01 04 39 0A FF	Shutter Priority Automatic Exposure mode
		Iris priority	8x 01 04 39 0B FF	Iris Priority Automatic Exposure mode

		Bright	8x 01 04 39 0D FF	Bright Mode(Manual control)
9	CAM Metering Mode	Average	8x 01 04 3A 00 FF	Average Metering
		Center-weighted	8x 01 04 3A 01 FF	Center-weighted Average Metering
		smart	8x 01 04 3A 02 FF	
		top	8x 01 04 3A 03 FF	
10	CAM Shutter	Reset	8x 01 04 0A 00 FF	Shutter Setting
		Up	8x 01 04 0A 02 FF	
		Down	8x 01 04 0A 03 FF	
		Direct	8x 01 04 4A 00 00 0p 0q FF	pq: Shutter Position
11	CAM Iris	Reset	8x 01 04 0B 00 FF	Iris Setting
		Up	8x 01 04 0B 02 FF	
		Down	8x 01 04 0B 03 FF	
		Direct	8x 01 04 4B 00 00 0p 0q FF	pq: Iris Position
12	CAM Gain	Reset	8x 01 04 0C 00 FF	Gain Setting
		Up	8x 01 04 0C 02 FF	
		Down	8x 01 04 0C 03 FF	
		Direct	8x 01 04 0C 00 00 0p 0q FF	pq: Gain Position
13	Gain Limit	direct	81 01 04 2C 0p FF	p: Gain Position
		reset	81 0A 11 24 00 FF	
		Up	81 0A 11 24 02 FF	
		Down	81 0A 11 24 03 FF	
14	CAM Bright	Reset	8x 01 04 0D 00 FF	Bright Setting
		Up	8x 01 04 0D 02 FF	
		Down	8x 01 04 0D 03 FF	
		Direct	8x 01 04 0D 00 00 0p 0q FF	pq: Bright Position
15	CAM Exp Comp	On	8x 01 04 3E 02 FF	Exposure Compensation On/Off
		Off	8x 01 04 3E 03 FF	
		Reset	8x 01 04 0E 00 FF	Exposure Compensation Amount Setting
		Up	8x 01 04 0E 02 FF	
		Down	8x 01 04 0E 03 FF	
		Direct	8x 01 04 4E 00 00 0p 0q FF	pq: ExpComp Position
16	CAM Back Light	On	8x 01 04 33 02 FF	Back Light Compensation On/Off
		Off	8x 01 04 33 03 FF	
17	Dynamic Range	reset	81 01 04 25 00 FF	
		up	81 01 04 25 02 FF	
		down	81 01 04 25 03 FF	
		direct	81 01 04 25 00 00 00 0p FF	
18	CAM_NR(2D)(2D)	-	8x 01 04 53 0p FF	p: NR Setting (0: Off, level 1 to 5)
	CAM_NR(3D)(3D)	-	8x 01 04 54 0p FF	p: NR Setting (0: Off, level 1 to 5)

19	CAM Gamma	-	8x 01 04 5B 0p FF	00 : PC 01:0.45 02:0.5 03:0.56 04:0.63 05 : EXT
20	CAM Flicker	-	8x 01 04 23 0p FF	p: Flicker Settings (0: Off, 1: 50Hz, 2: 60Hz)
21	CAM Aperture	Reset	8x 01 04 02 00 FF	Aperture Control
		Auto	8x 01 04 05 02 FF	
		Up	8x 01 04 02 02 FF	
		Down	8x 01 04 02 03 FF	
		Direct	8x 01 04 42 00 00 0p 0q FF	pq: Aperture Gain
22	CAM Picture Effect	Off	8x 01 04 63 00 FF	Picture Effect Setting
		B&W	8x 01 04 63 04 FF	
23	CAM Preset	Reset	8x 01 04 3F 00 pp FF	pp: Memory Number(=0 to 127)
		Set	8x 01 04 3F 01 pp FF	
		Recall	8x 01 04 3F 02 pp FF	
		Adjust preset speed up (up)	8x 0A 11 35 02 FF	
		Adjust preset speed down(down)	8x 0A 11 35 03 FF	
24	CAM LR Reverse	On	8x 01 04 61 02 FF	Image Flip Horizontal On/Off
		Off	8x 01 04 61 03 FF	
	CAM Picture Flip	On	8x 01 04 66 02 FF	Image Flip Vertical On/Off
		Off	8x 01 04 66 03 FF	
25	CAM Color Gain	Diret	8x 01 04 49 00 00 00 0p FF	p: Color Gain setting 0h (60%) to Eh (200%)
26	CAM Color Hue	Direct	8x 01 04 4F 00 00 00 0p FF	p: Color Hue setting 0h (- 7 dgrees) to Eh (+7 degrees)
27	CAM_AWB Sensitivity	High	8x 01 04 A9 00 FF	High
		Normal	8x 01 04 A9 01 FF	Normal
		Low	8x 01 04 A9 02 FF	Low
28	CAM_AF Sensitivity	High	8x 01 04 58 01 FF	AF Sensitivity High/Normal/Low
		Normal	8x 01 04 58 02 FF	
		Low	8x 01 04 58 03 FF	
	CAM_AF Zone	Top	8x 01 04 AA 00 FF	AF Zone weight select
		Center	8x 01 04 AA 01 FF	
		Bottom	8x 01 04 AA 02 FF	
29	CAM Brightness	Direct	8x 01 04 A1 00 00 0p 0q FF	pq: Brightness Position
30	CAM Contrast	Direct	8x 01 04 A2 00 00 0p 0q FF	pq: Contrast Position
31	CAM Setting Save	Save	8x 01 04 A5 10 FF	Save Current Setting

32	CAM Setting Reset	Reset	8x 01 04 A0 10 FF	Reset Factory Setting
33	Pan tilt Drive	Up	8x 01 06 01 VV WW 03 01 FF	VV: Pan speed 0x01 (low speed) to 0x18 (high speed) WW: Tilt speed 0x01 (low speed) to 0x14 (high speed) YYYY: Pan Position ZZZZ: Tilt Position
		Down	8x 01 06 01 VV WW 03 02 FF	
		Left	8x 01 06 01 VV WW 01 03 FF	
		Right	8x 01 06 01 VV WW 02 03 FF	
		Up left	8x 01 06 01 VV WW 01 01 FF	
		Upright	8x 01 06 01 VV WW 02 01 FF	
		Down Left	8x 01 06 01 VV WW 01 02 FF	
		Down Right	8x 01 06 01 VV WW 02 02 FF	
		Stop	8x 01 06 01 VV WW 03 03 FF	
		Absolute Position	8x 01 06 02 VV WW 0Y 0Y 0Y 0Y 0Z 0Z 0Z 0Z FF	
		Relative Position	8x 01 06 03 VV WW 0Y 0Y 0Y 0Y 0Z 0Z 0Z 0Z FF	
		Home	8x 01 06 04 FF	
		Reset	8x 01 06 05 FF	
34	Pan tilt Limit Set	Limit Set	8x 01 06 07 00 0W 0Y 0Y 0Y 0Y 0Z 0Z 0Z 0Z FF	W: 1 UpRight 0: DownLeft YYYY: Pan Limit Position ZZZZ: Tilt Position
		Limit Clear	8x 01 06 07 01 0W 07 0F 0F 0F 07 0F 0F 0F FF	
35	RESET		81 01 06 05 FF	
36	HOME		81 01 06 04 FF	
37	CAM Speaker Volume	Up	81 2a 01 a0 03 00 02 FF	
		Down	81 2a 01 a0 03 00 03 FF	
38	CAM Speaker Mute	Mute	81 2a 02 a0 03 02 ff	
		Unmute	81 2a 02 a0 03 03 ff	
39	CAM Audio In Mute	Mute	81 2a 02 a0 06 01 ff	Microphone Mute/Unmute
		Unmute	81 2a 02 a0 06 00 ff	
40	CAM Privacy Mode Set	Mute	81 0a 12 01 ff	Camera Mute/Unmute
		Unmute	81 0a 12 00 ff	
41	CAM_AI Mode	Close	81 0a 11 a0 00 ff	
		Person Track	81 0a 11 a0 01 ff	
		Smart Gallery	81 0a 11 a0 02 ff	
		Speaker Track	81 0a 11 a0 03 ff	
		Auto frame	81 0a 11 a0 04 ff	