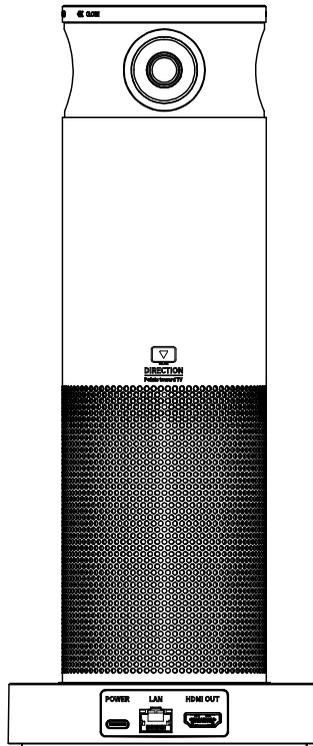


4K BYOM 360° Panoramic Camera



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.



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

FCC Regulatory Conformance:



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.



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.



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 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 or press the head of the camera by hand, as this may cause mechanical failure.
- 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.

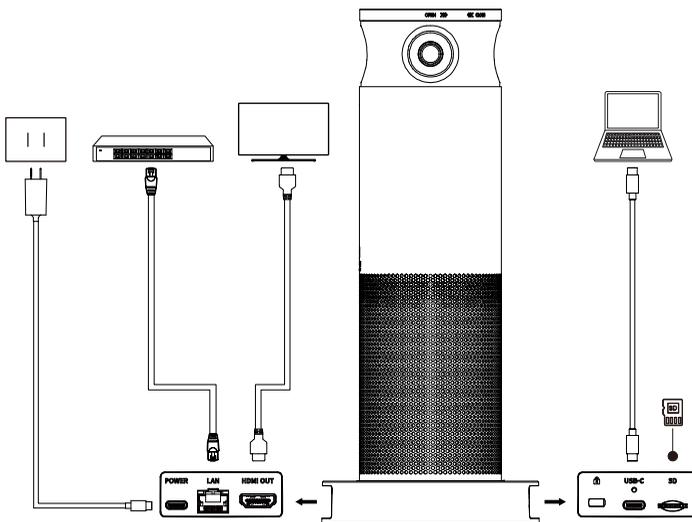
2 Packing List

| Name | Quantity |
|---------------------|----------|
| Camera | 1 |
| PD Power Adapter | 1 |
| Power Cable | 1 |
| USB Cable | 1 |
| User Manual QR Code | 1 |

3 Quick Start

3.1 Connection

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





Note

When the camera is connected to both PD power adapter and PC, it supports reverse charging for the PC.

3.2 Screen Sharing

Use a USB cable to connect the PC (with Type-C port for screen sharing) to the USB-C port of the camera, then press the “Sharing” button on the camera to start screen sharing. The PC screen will then be displayed on the display.

4 About Product

4.1 Features

- **All-in-one Design**

Specifically designed for small meeting spaces, this all-in-one solution combines a four-camera array, an array microphone, and speakers into a compact, lightweight design. Simply plug it in and start using it immediately by placing it in the center of the meeting table.

- **360° Imaging for Equitable Meetings**

4 x built-in ultra-wide-angle lenses, combined with real-time AI video stitching and fusion algorithms, cover a 360° field of view, breaking through traditional viewing angle limitations and presenting close-up images of all participants equally, creating a relaxed, free, face-to-face immersive interactive environment that enhances the interactivity and sense of participation in meetings.

- **Ultra-HD Vision and Privacy Assured**

4 x 4K CMOS image sensors, up to 16K*2K ultra-high resolution, support 4KP30 ultra-HD output, delivering crisp and detailed images. Equipped with a manually rotatable lens cover to safeguard privacy and security.

- **Single-cable BYOM**

Support USB-C single-cable BYOM application mode, with HDMI output supporting 4K local screen sharing and compatibility with various meeting platforms. The USB-C port also provides reverse PD power delivery, reducing cable connections and eliminating power concerns for laptops, enabling flexible and efficient collaboration.

- **AI Framing Technology**

Equipped with industry-leading AI video algorithms, support Speaker Framing, Smart Gallery and other framing modes, no manual operation is required; it automatically focuses on or marks speakers, effectively improving the communication focus.

- **Rich Layout with Flexible Switching**

360° panoramic stitching, speaker framing, multi-person split screens, and other rich display layouts provide flexible viewing angles for various meeting scenarios, with one-touch switching via buttons on the device.

- **Omnidirectional Audio Pickup and Sound Sharing**

6 x built-in MEMS array microphones with 3-meter clear audio pickup; built-in compact full-range speakers with a specially designed sound chamber for omnidirectional sound sharing to effectively cover the entire space.

- **Intelligent 3A for Exceptional Sound Quality**

Integrates 3A (AEC/AGC/ANS) audio algorithms to eliminate ECHO, noise, and reverberation, enabling clear full-duplex audio conversations.

- **Remote Centralized Control for Convenient Management**

Built-in Gigabit Ethernet, support PoE power supply and remote Web management, can be integrated into a centralized management platform, making maintenance and management easy and convenient.

4.2 Specifications

| Camera | |
|---------------------------------|---|
| Video Resolution | 4KP30, 1080P30, 720P30 |
| Sensor | 4 x 1/2.8" CMOS, 4 x 8MP effective pixels |
| Lens | 4 x ultra-wide-angle fixed-focus lenses, single (HFOV/VFOV): 117°/62°, Stitched FOV(HFOV): 360° |
| Zoom | 3x HD digital zoom |
| Privacy Cover | Built-in manual rotating privacy cover |
| Digital Noise Reduction | 2D&3D Digital Noise Reduction |
| SNR | ≥55dB |
| Backlight Compensation | Support |
| Microphone | |
| Type | 6 x Omnidirectional MEMS microphone array with beamforming technology |
| Pickup Range | Clear pickup distance of 3 meters |
| Frequency Response | 50Hz~20KHz |
| Sensitivity | -38dBFS |
| SNR | 65dB(A) |
| Speaker | |
| Driver Type | 1 x 1.5" full-range unit with dual-diaphragm sound cavity |
| Rated Power/ Impedance | 4W/4Ω (6W max.) |
| Frequency Response | 50Hz~20KHz |
| Loudness | 82dBA@1m |
| Total Harmonic Distortion (THD) | <3% |
| AI Video Features | |
| Panoramic Stitching | Support |
| Group Framing | Support |
| Speaker Framing | Support |

| Smart Gallery | Support |
|------------------------------|--|
| Audio Features | |
| Noise Cancellation (ANC) | Support |
| ECHO Cancellation (AEC) | Support |
| Reverberation Suppression | Support |
| Automatic Gain Control (AGC) | Support |
| USB Features | |
| Connection Type | USB 3.0, backward compatible with USB 2.0 |
| Color System/ Compression | YUY2/H.264/MJPEG |
| Audio Bit Rate | 48K |
| USB Protocol | UAC1.0, UVC 1.1 |
| UVC PTZ Control | Support |
| Network Features | |
| Protocol | IPv4, IPv6 |
| Protocol Support | TCP/IP, DHCP, SSH, HTTP, HTTPS with SSL/TLS, RTP, RTCP, SNTP, ARP |
| Interfaces | |
| POWER | 1 x USB Type-C Power Interface (65W PD power input) |
| LAN | 1 x RJ45: 10/100/1000 Base-T, supporting PoE (IEEE802.3at) |
| HDMI OUT | 1 x HDMI 2.0, maximum resolution: 4KP30 |
| Security Slot | 1 x Security Slot |
| USB-C | 1 x USB 3.0 Type-C, supporting USB audio/ video transmission and DP ALT mode, with PD reverse power delivery (up to 40W) |
| SD Slot | 1 x SD Slot |
| Installation | |
| Installation Methods | Desktop placement |

System Compatibility

| | |
|---|---|
| OS Requirements Under BYOM Mode | <ul style="list-style-type: none"> ● Windows 10 or higher; ● Mac OS 10.0 or higher |
| Cloud Conferencing Software Compatibility Under BYOM Mode | Microsoft Teams and Skype for Business, Zoom Room and Zoom client, BlueJeans, Google Meet, Cisco Webex, Tencent Meeting/VooV Meeting, DingTalk Meeting, Feishu Meeting/Lark Meeting |
| Centralized Device Management System | Support |

General Specifications

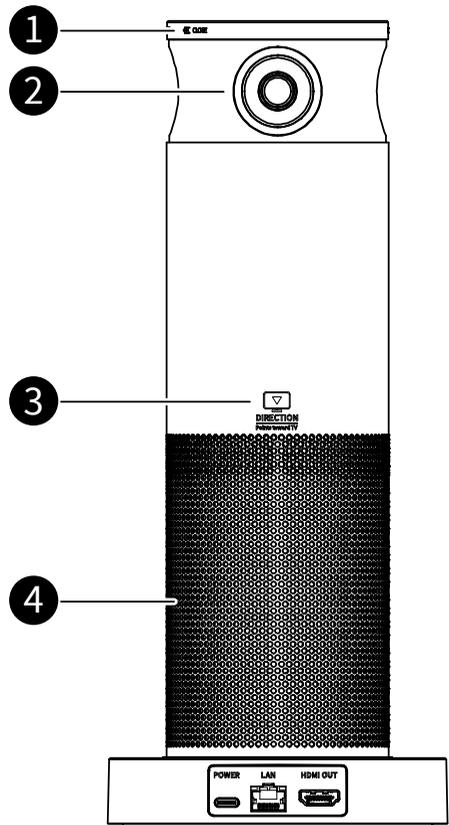
| | |
|------------------------------|--|
| AC Power | Input: AC 100-240V 50/60Hz; Output: PD 20V/3.25A (max.) |
| PoE Power Supply | IEEE802.3 at, 48V/0.5A |
| Operating Temperature | 0°C-40°C |
| Storage Temperature | -40°C-60°C |
| Operating Humidity | 10%-95% |
| Storage Humidity | 10%-95% |
| Dimension (LxHxD) | 128mmx128mmx302mm |
| Net Weight | About 1.3kg |
| Certifications and Standards | CE, FCC, ROHS, Reach, WEEE |



Product features and specifications are subject to change without notice.

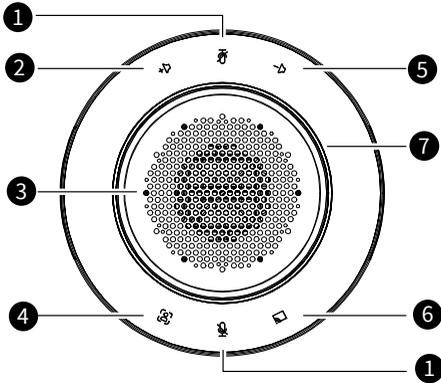
4.3 Appearance

4.3.1 Front View



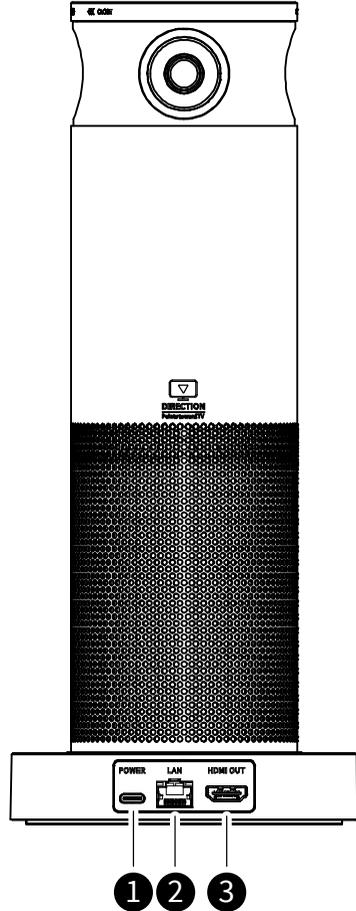
| No. | Name | Description |
|-----|---------------|---|
| 1 | Privacy Cover | Rotate the privacy cover switch to open or close the camera lens. |
| 2 | 4K Lens | Built-in 4 x 4K wide-angle lens. |
| 3 | TV mark | TV mark faces the screen. |
| 4 | Speaker | Built-in full-range speaker |

4.3.2 Button



| No. | Name | Description |
|-----|----------------------|--|
| 1 | Mute Button | Rotate the privacy cover switch to open or close the camera lens. |
| 2 | Volume + Button | Increase the speaker volume. |
| 3 | Microphone | Built-in 6 x array microphones. |
| 4 | Layout Switch Button | Select and switch screen layout (Long press 5s, switchable 270° video conferencing mode/ 360° panorama mode) |
| 5 | Volume - Button | Decrease the speaker volume. |
| 6 | Sharing Button | Camera/Sharing switch button. |
| 7 | Indicator | Status indicator. |

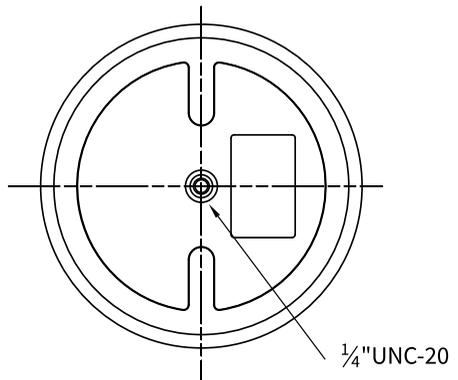
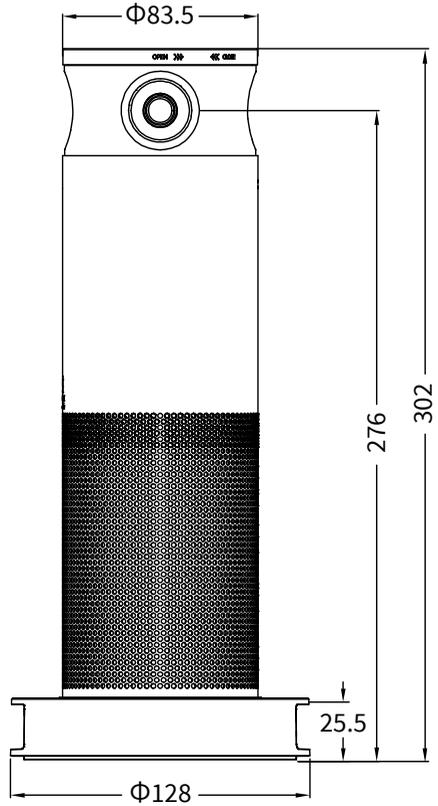
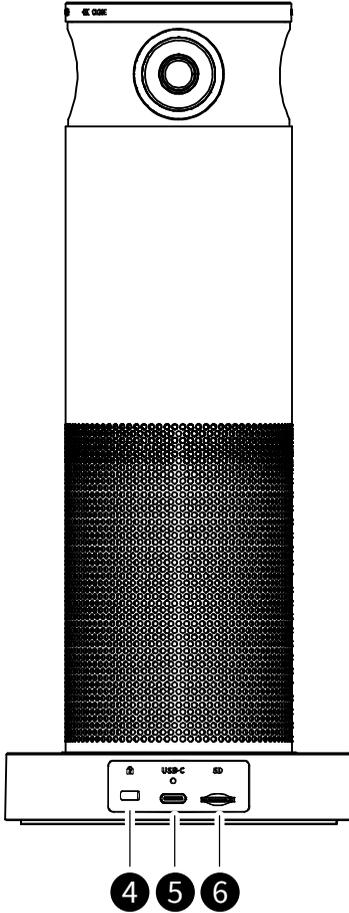
4.3.3 Interface



| | | |
|---|---------|----------|
| 6 | SD Slot | SD Slot. |
|---|---------|----------|

4.4 Dimension

Unit: mm

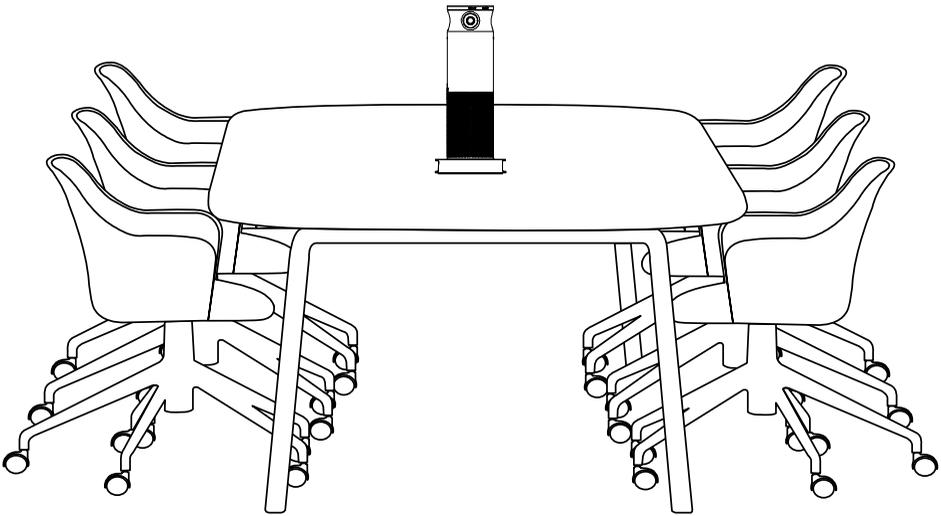


| No. | Name | Description |
|-----|---------------|---|
| 1 | POWER | PD power interface. |
| 2 | LAN | Connect to external network. |
| 3 | HDMI OUT | Connect to an external HDTV or other display device, support audio output. |
| 4 | Security Slot | Security Slot. |
| 5 | USB-C | Connect to an external PC, support audio and video transmission or screen sharing, support PD reverse power supply (up to 40W). |

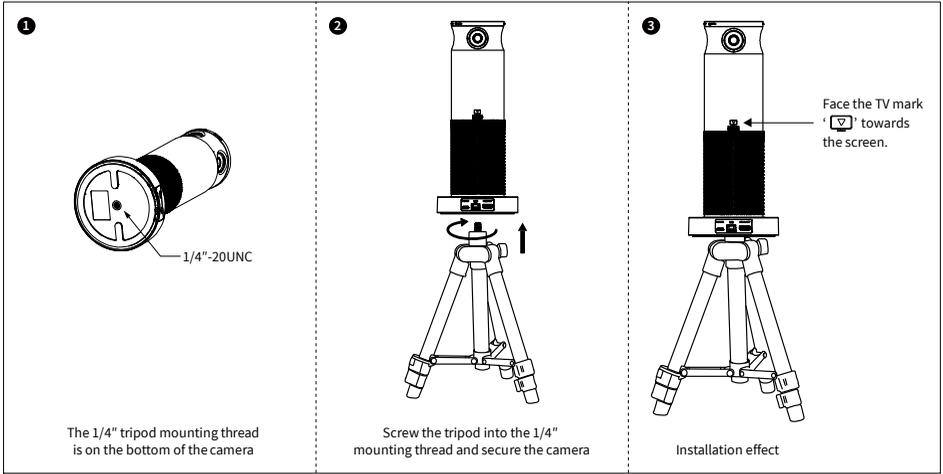
4.5 Installation

Camera can be placed directly on a desk or mounted on a tripod.

4.5.1 Desktop Installation



4.5.2 Tripod Installation



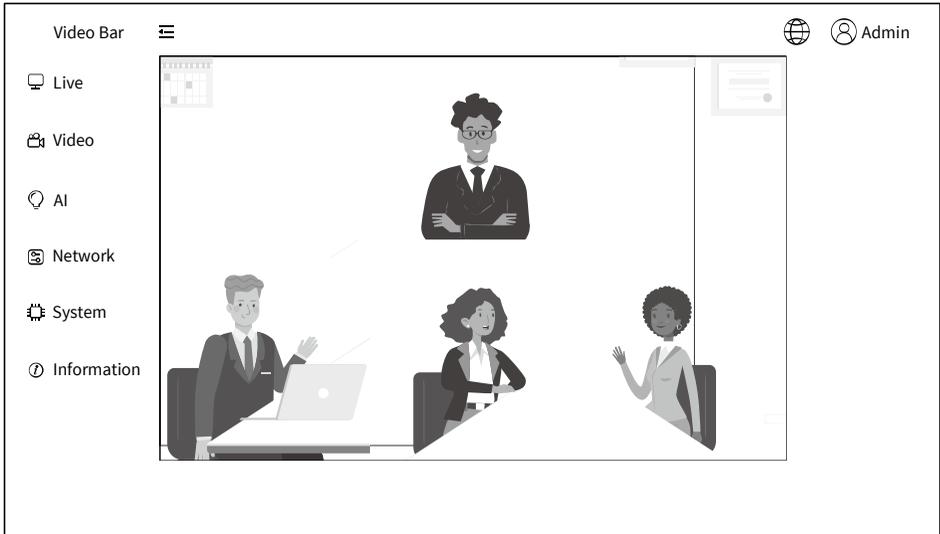
 Note

The installation diagrams are for reference only and the Tripod is not included. Please refer to the actual product for installation accessories.

5 WEB Settings

5.1 Access Camera

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:



5.2 Control Camera

A. Video Display 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. Language

Click the “” button to display the language box, select “中文” or “English” to change the language of the webpage.

C. Admin

Home: Return to the home page of the WEB.

Logout: Exit to the WEB login page.

5.3 Live

5.3.1 Exposure



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

Flicker: Off, 50Hz, 60Hz (Effective in Full Auto, Bright Priority mode).

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 Priority mode).

Metering Mode: Average, Center, Bottom, Top (Effective in Full Auto, Shutter Priority, 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 Strength: 0~8.

5.3.2 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).

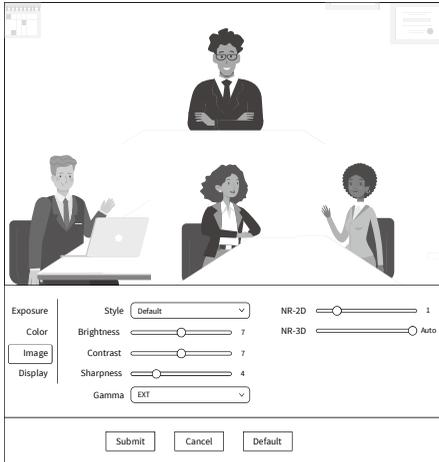
B-Gain: 0~255 (Effective in Manual mode).

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

Saturation: 60%~200%.

Hue: 0~14.

5.3.3 Image



Style: Default, Normal, Zoom.

Brightness: 0~14.

Contrast: 0~14.

Sharpness: Auto, 0~15.

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

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

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

5.3.4 Display

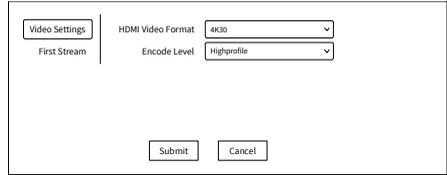


Flip-H: On, Off.

Flip-V: On, Off.

5.4 Video

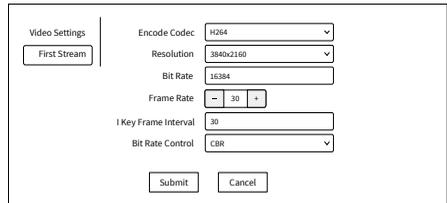
5.4.1 Video Settings



HDMI Video Format: Support 4K30, 4K25, 1080P60, 1080P50, 1080P30, 1080P25, 720P60, 720P50 video format.

Encode Level: Support Baseline, Mainprofile, Highprofile encode level.

5.4.2 First Stream



Encode Codec

Support H264, H265 and MJPEG encode Codec.

Resolution

Supports 3840x2160, 1920x1080, 1280x720, 1024x576, 960x540, 720x480, 640x480, 640x360. The larger the resolution, the clearer the image, but it also requires a larger code stream, which consumes more network bandwidth.

Bit Rate

A higher bit rate enhances image clarity. Consider the network bandwidth when configuring the bit rate. If the network bandwidth is limited and a higher bit rate is set, video stream transmission is compromised, resulting in a degraded visual experience.

Frame Rate

Higher frame rates result in smoother pictures, while lower frame rates create a more dynamic effect.

I Key Frame Interval

Adjust the interval between two I-frames. A larger interval can slow down the initial image display.

Bit Rate Control

Two bit rate control modes are available.

CBR (Constant Bit Rate): Encodes video at the set bit rate speed.

VBR (Variable Bit Rate): Considers image quality while encoding but doesn't strictly follow the preset speed.

5.5 AI

5.5.1 Set



Mode: Off, Smart Gallery.

Layout: Speaker View, Gallery View, Speaker & Global, Gallery & Global (Effective in Smart Gallery mode).

Fixed Layout: On, Off (Effective in Gallery View and Gallery & Global layout).

Distance Filter: Far, Near (Effective in Smart Gallery mode).

Fixed Split Screen: Off, 2, 4, 6, 8 (Effective in Gallery View layout).

5.5.2 Shield Area



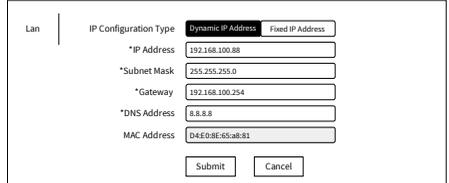
Screen Check

Select to enable/disable the screen check.

Shield Area

Set the tracking shield area: 1, 2, 3, 4, 5.

5.6 Network

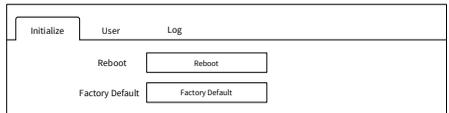


The default IP address of Lan is 192.168.100.88.

The MAC address cannot be changed.

5.7 System

5.7.1 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 “Please press OK to reset the camera?” prompt box, select “OK” to restore the factory settings.

5.7.2 User

The screenshot shows the 'User' tab in the management interface. It includes a sidebar with 'User Management' and 'Guest Management' buttons. The main area contains three input fields: '*UserName' with the value 'admin', '*Password' with masked characters, and '*Verify Password'. A 'Submit' button is located at the bottom right.

User Management

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

The screenshot shows the 'User Management' section. It features a sidebar with 'User Management' and 'Guest Management' buttons. The main area contains three input fields: '*Guest' with the value 'guest', '*Password' with masked characters, and '*Verify Password'. A 'Submit' button is located at the bottom right.

Guest Management

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

5.7.3 Log

The screenshot shows the 'Log' tab in the management interface. It contains two buttons labeled 'Download Log'.

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

5.8 Information

5.8.1 Information

The screenshot shows the 'Information' tab in the management interface. It displays several fields with their current values: Device ID (Camera), Device Type (S3V), Software Version (SOC v9.0.01), Version Date (2025-08-26), Webware Version (v2.0.2), and Audio License (Inactive). 'Submit' and 'Cancel' buttons are at the bottom.

Displays the current camera’s Device ID, Device Type, Software Version, Version Date, Webware Version and Audio License.

5.8.2 System Upgrade

The screenshot shows the 'System Upgrade' tab in the management interface. It features a large dashed rectangular box for file upload, a cloud icon, and the text 'Drop files here, or Click to upload'. Below the box, it says 'Only img file'.

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.



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

6 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).

