

4K Dual-Lens Optical Camera

BizEye P30



User Manual



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Introduction

Overview

This product is a high-quality, feature-rich 4K dual-lens camera designed for professional video conferencing and collaboration. The main camera features a 4K optical zoom lens, while the secondary panoramic lens is a fixed-focus 1080p camera.

This product delivers clear, detailed imaging and a seamless user experience, making it ideal for small to medium-sized meeting rooms, training rooms, online education, and similar applications.

Features

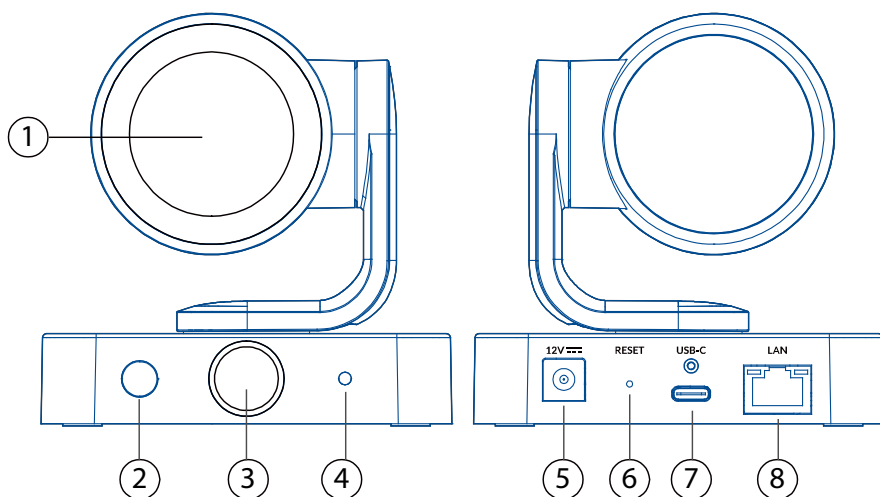
- A powerful built-in dual lens features a panoramic camera for real-time participant detection and a PTZ camera to capture the best view of everyone in the room simultaneously;
- Supports resolutions up to 4K@30fps with USB 3.0 connectivity.
- Dual-lens system:
 - 4K PTZ camera with 3x optical zoom and 110° DFOV;
 - 1080p panoramic camera with 120° DFOV.
- Advanced CMOS image sensor and ISP algorithm deliver crystal-clear video with exceptional clarity.
- AI-powered features include auto framing, presenter tracking, and individual gallery view — making meetings more natural and engaging.
- Supports MJPG, NV12, H.265, and H.264 video compression standards for broad application compatibility.
- Compatible with major operating systems, including Windows 10/11 and macOS.
- Works seamlessly with leading video conferencing platforms such as Zoom, Microsoft Teams, Skype, Cisco Webex™, and more.
- Plug-and-play design, easy installation on displays or walls.

Package Contents

Before you start the installation of the product, please check the package contents:

- Camera x 1
- DC 12V/3A Power Adapter x 1
- USB type-A to USB type-C Cable (L = 1.8m) x 1
- IR Remote x 1
- Private Lens Cap for Panoramic lens x 1
- Mounting Bracket (with screws) x 1
- User Manual x 1

Panel



#	Name	Description
1	Lens	4K optical zoom lens.
2	IR Window	Receive IR signals from the provided IR remote.
3	Lens	1080P fixed focus lens.
4	Status LED	<ul style="list-style-type: none"> • Lighting white for about 2s, and then off: The device is starting up. • Blinking dark white like breathing: The device is in idle mode, and the color can set to red or off through web UI. • Lighting white: The device is active.

#	Name	Description
		<ul style="list-style-type: none"> Blinking quickly: The device is being upgraded.
5	DC 12V	Connect to the provided power adapter.
6	RESET	<ul style="list-style-type: none"> Press once to show IP address and tracking mode on the image of the camera. Hold and press for at least 5s to set the device to factory defaults.
7	USB-C	USB 3.0 Type-C port. Connect to a laptop, room PC or all-in-one conference device for transmitting audio and camera video signal using the USB-A to USB-C cable provided.
8	LAN	Connect to the network for web UI or telnet control.

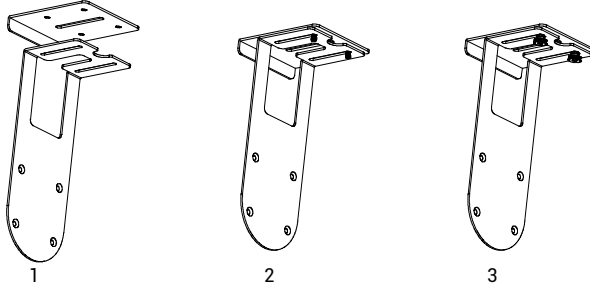
Installation and Application

Note: Disconnect all devices from power before installation.

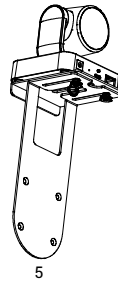
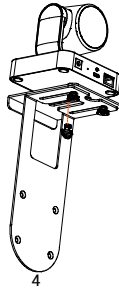
Installation

Assemble the camera and mounting brackets:

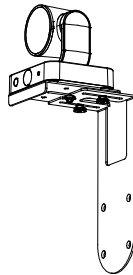
1. Assemble the base bracket panel and base support bracket using the two bracket assemble screws provided. As shown in the following figures:



2. Using the thumb screw to fix the mounting brackets to the camera, as shown in the figure.

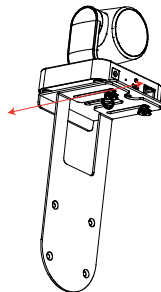


Note: If users want to install the camera on the wall, please assemble the base support bracket as shown in the following figure.

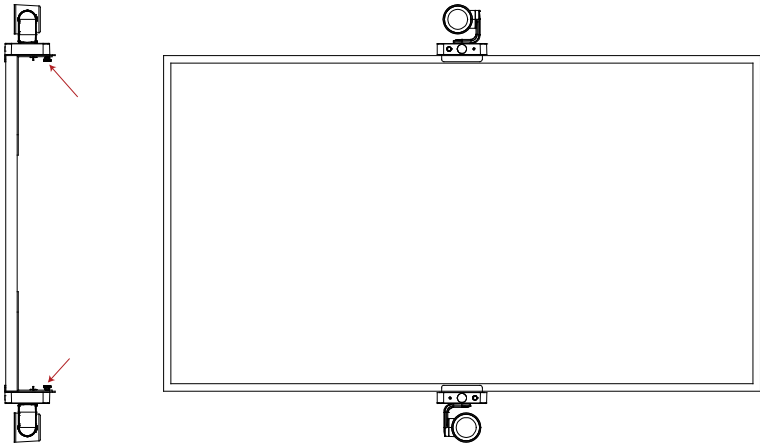


To install the camera on the TV:

1. Loosen the two bracket assembly screws on the base support bracket, move the long baffle of the base support bracket to increase the distance between the two baffles.

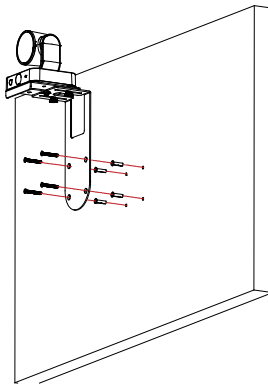


2. Place the camera on the TV, moved forward and backward to adjust the distance between the two baffles to adapt to the width of different TVs. As shown in the following figure.



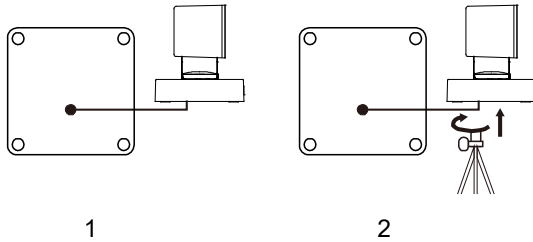
To install the device on the wall:

1. Drill holes on the wall, then insert the plastic expansion pipes into the holes.
2. Using the provided wall mounting screws to install the camera on the wall. As shown in the figure.



To install the device on a tripod:

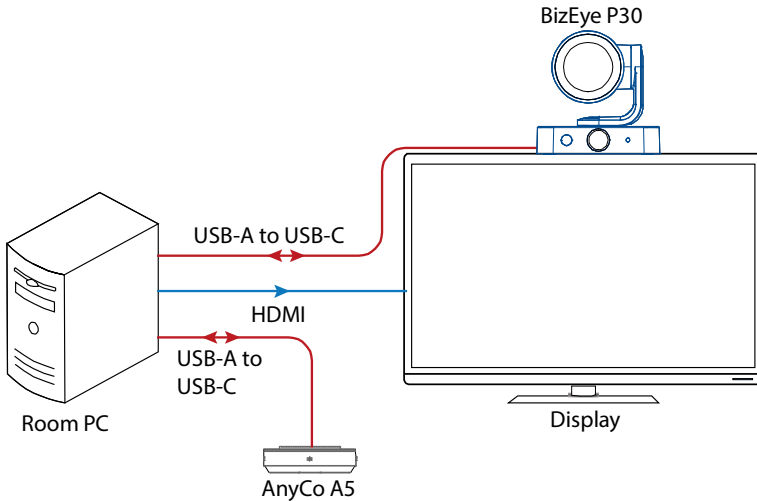
1. Locate the 1/4 inch tripod thread on the bottom of the device.
2. Attach the device to the tripod by gently screwing it into the thread until secure.



- Position your device and tripod wherever you like to get the optimal framing.

Note: Tripod is not included in the package.

Application



The camera supports three modes:

- Init mode: When power on the camera, it is in Init mode. When there's no UVC signal transmission in 10s after starting up, the camera will enter idle mode.
- When the UVC channel is opened up in 10s after starting up, the camera will enter active mode.
- Idle mode: In this mode, insert USB cable, or press any button of the IR remote, the camera will enter Init mode, and open up the UVC channel, the camera will enter active mode.

- Active mode: Turn off the UVC channel in this mode, the camera will enter Init mode, and in 10s, if there's no UVC signal transmission, the camera will enter idle mode.

Note: The camera supports receive commands from UVC channel through AI mode, IR remote, web UI or other third-party apps such as zoom.

IR Remote Control

The camera supports IR remote control. Point the provided IR remote to the IR window on front panel of the camera.



Button	Description
Tracking Mode 	Press to toggle among Auto Framing, Presenter Tracking, Individuals Gallery, and Off.
Standby Mode 	Press to set idle mode to on/off.
Home 	Press once to return to the default view. Hold it for about 2s, overlay display the current tracking mode information and IP address.
Navigation Button 	Press to perform PTZ (only available when Tracking mode is off).
PiP 	Press to toggle between single picture mode (only from 4K optical zoom lens) and dual-picture mode (from 4K optical zoom lens and 1080P fixed focus lens). Note: This setting is only available in Presenter Tracking mode and Off mode.
Information 	Press to show the information including tracking mode and IP information on the image of the camera.
Flip 	Press to flip the camera image, useful when the camera is mounted upside down.
Zoom (Slow / Fast) 	Press to adjust the zoom. Press and hold to adjust the zoom continuously. +: Zoom in. -: Zoom out. Note: The function is only available when tracking mode is off.
Preset 1/2 	Press and hold 3s to save current camera view to preset 1 or 2. Press to switch the camera view to preset 1 or 2. Note: The function is only available when Tracking mode is off.

LAN Control

The device equips a LAN port for telnet and web UI control.

Obtain IP Address

Users can obtain IP address through pressing “RESET” hole once (see “Panel” section to get detail information) or pressing the Remote’s “home” button or “i” button to get IP address (see [“IR Remote Control”](#) to get detail information).

Telnet Control

Connect a control PC to the LAN port of the device. Before you intend to control the device through telnet API, users shall establish connection between this device and your computer.

The form of the command for telnet connection is below:

```
telnet ip (port)
```

- **ip**: The device’s IP address.
- **port**: The device’s port number, this is non-required for some Telnet control tools. Default setting is 23.

For example, if the device’s IP address is 192.168.11.143, the command for telnet connection shall be the following:

```
telnet 192.168.11.143
```

Web UI Control

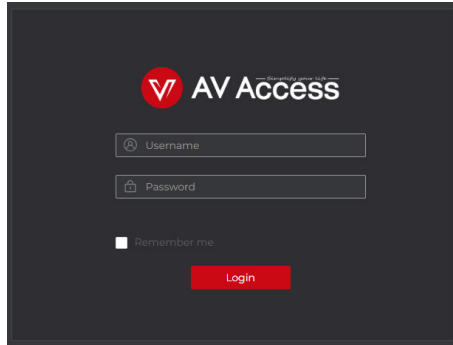
The Web UI designed for the device can be accessed through a browser with latest version, e.g., Chrome, Safari, Firefox, Opera, IE10+, etc.

The default IP mode of the device is DHCP. Default login password for Web UI is “admin”.

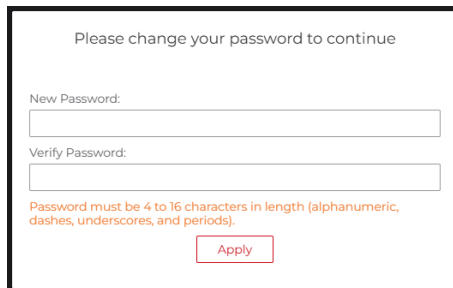
Get Access to Web UI

1. Connect the device’s LAN port to an Ethernet switch with a DHCP server, and connect the PC to the same switch.
2. Refer to the “Obtain IP Address” section to find the IP address assigned to the device.
3. Enter the obtained IP address into your web browser’s address bar

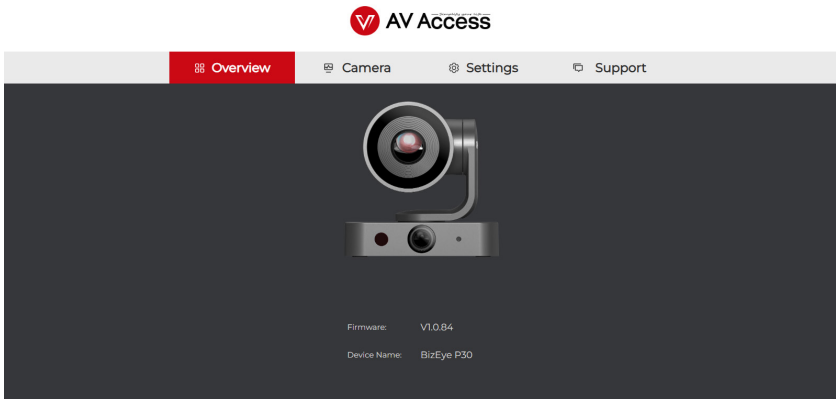
and press Enter to access the device's login page:

The image shows the AV Access login page. At the top center is the AV Access logo, which consists of a red circle with a white 'V' inside, followed by the text 'AV Access' in white. Below the logo are two input fields: 'Username' and 'Password'. The 'Username' field has a key icon on the left, and the 'Password' field has a key icon on the left. Below these fields is a checkbox labeled 'Remember me'. At the bottom center is a red button with the text 'Login' in white.

4. Enter the username and password to log in to the web UI. The default username and password are both "admin".
5. On the first login, after clicking "Login", you will be prompted to change the login password. Enter a new password and click "Apply" to proceed to the main interface.

The image shows a password change prompt. At the top, it says 'Please change your password to continue'. Below this are two input fields: 'New Password:' and 'Verify Password:'. Below the 'Verify Password:' field is a red error message: 'Password must be 4 to 16 characters in length (alphanumeric, dashes, underscores, and periods)'. At the bottom center is a red button with the text 'Apply' in white.

Note: Password must be 4 to 16 characters in length (alphanumeric, dashes, underscores, and periods).

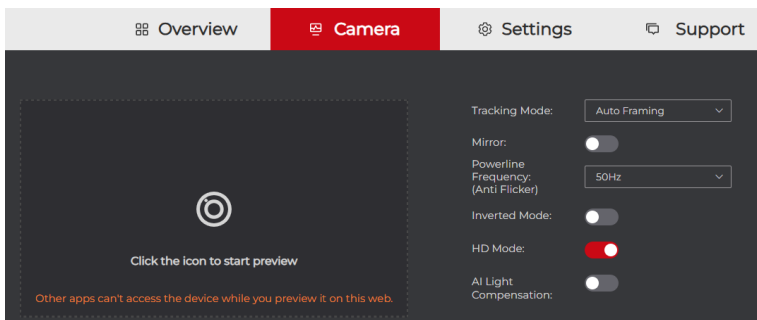


Web UI Introduction

1. Overview

This section displays the device's diagram, the current firmware version and device name.

2. Camera

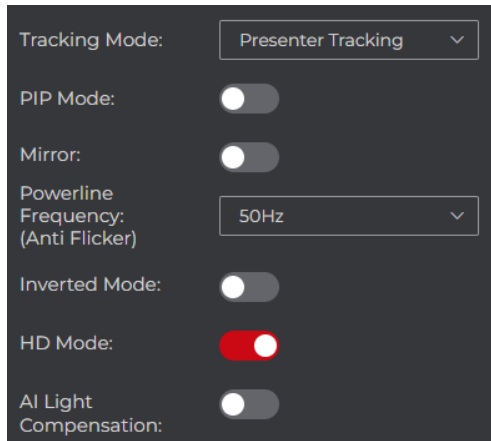


This section allows users to control the camera.

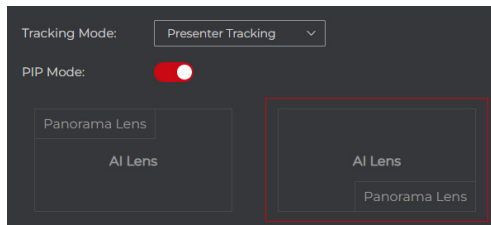
- **Preview Button:** Click to enter preview mode, where the camera's live video feed will be displayed in this frame for real-time viewing. (Note: During preview, the camera cannot be accessed by other software.) All changes will be shown instantly in this view. To exit preview mode, move the mouse to the center of the screen and click the black square.
- **Tracking Mode:** Click the drop-down menu to select a tracking mode. Available modes include Auto Framing, Presenter Tracking,

Individuals Gallery, and Off.

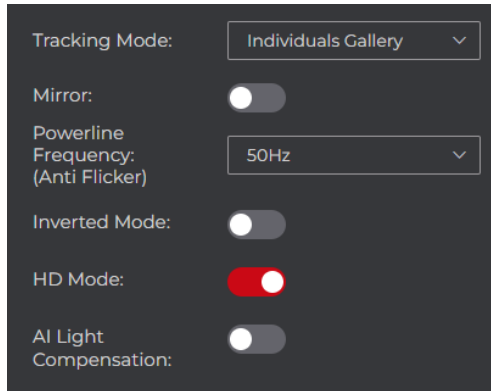
- A. When Tracking Mode is set to **Auto Framing** (default):
The optical AI lens continuously monitors the positions of individuals in the meeting room in real time, automatically adjusting the angle and focal length to keep the target person framed while maintaining optimal clarity of their facial features.
- B. When Tracking Mode is set to **Presenter Tracking**:
Automatically identifies the first speaker and continuously tracks the presenter in real-time.



PIP Mode: Click to enable or disable PIP mode. The default setting is Off. When enabled, users can choose a PIP layout by clicking the desired layout diagram. By default, the panorama lens view appears in the lower-right corner of the AI lens view.

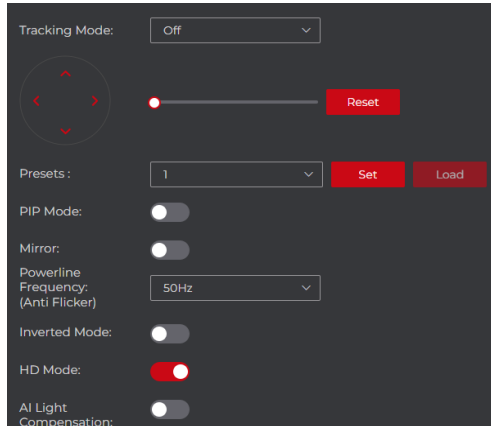


C. When Tracking Mode is set to **Individuals Gallery**:



This mode identifies individuals in the frame and generates a multi-view display in left-to-right order. When more than four people are detected in the frame, the tracking mode will automatically switch to "Auto Framing" mode.

D. When Tracking Mode is set to **Off**:



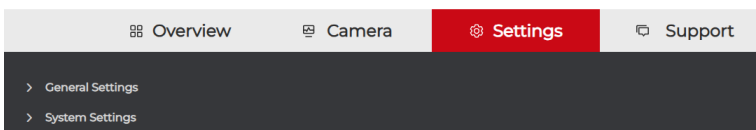
When tracking mode is off, users can adjust the focal length to zoom in or out of the scene by moving the circular slider. To pan the camera view up, down, left, or right, click the respective arrow keys on the left side.

- **Reset:** Click the button to reset the focal length to default setting.



- **Preset:** Select a preset number and click “Set” to save current camera view to this preset. Click “Load” to upload the saved camera view from the selected preset. A total of 9 presets are supported.
- **PIP Mode:** the settings are same as when tracking mode is set to “Presenter Tracking”.
- **Mirror:** Click to set the camera’s mirror display function to on/off. The default setting is off.
- **Powerline Frequency (Anti Ficker):** Set the camera's AC frequency (50Hz or 60Hz, default 50Hz) to match the corresponding environment's frequency, to prevent flickering during recording.
- **Inverted Mode:** Set the camera to enable or disable image flip display (180 degree flip up and down). Default setting: Off. Enable this feature if the camera is installed in an inverted position.
- **HD Mode:** Click to turn on or off the high-definition camera view (default is on). The state change will automatically restart the device to apply the setting. To ensure better compatibility, users may try turning this feature off.
- **AI Light Compensation:** Click to set AI light compensation to enable or disable. Default setting: Off. When it is set to on, it will automatically adjust image brightness and contrast using AI to enhance visibility under poor or uneven lighting conditions.

3. Settings



1) General Settings

General Settings

Device Name

Device Name:

Note: The device name must be 1 to 20 characters long (letters, numbers, spaces, '.' or '-' only)

Apply

IP Settings

IP Method: ☐ Static ☒ DHCP

IP Address:

Subnet:

Gateway:

Note: LAN Module will automatically reboot after changing Network setting.

Apply

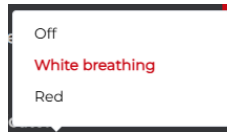
IP Conflict Detection

IP Conflict Detection: ☒

Standby Indicator

> System Settings

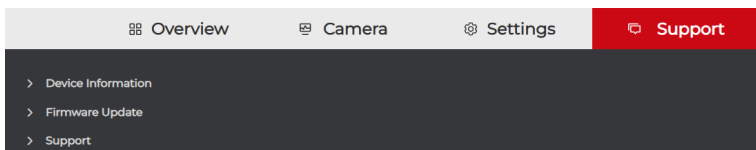
- **Device Name:** This section allows users set device name and room name. Input the names and click "**Apply**" to take effect.
Note: The device name must be 1 to 20 characters long (letters, numbers, spaces, '.' or '-' only).
- **IP Settings:** This section is used to set between the static and dynamic IP address.
 - **DHCP:** When enabled, the IP address of the device is assigned automatically by the DHCP server connected.
 - **Static:** When enabled, set up the IP address manually.
 - **Apply:** Click to enable the network setting.
- **Note:**
 - When "Static" is selected, please ensure your PC is in the same network segment as the camera.
 - Please wait for 2-3 minutes for the camera's LAN module to reboot and reconnect after the network setting is changed.
- **IP Conflict Detection:** This section allows users to set IP conflict detection function to on/off. The default setting is on.
- **Standby Indicator:** This section allows users to set the color of the status LED when the device is in idle mode. Default setting: White breathing.



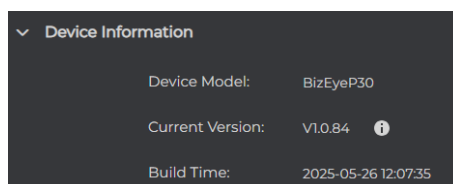
2) System Settings

- **Login:** This section allows users to change login password. The default password is “admin”.
Note: Password must be 4 to 16 characters in length (alphanumeric, dashes, underscores, and periods).
- **System:** This section allows users to set the camera to factory defaults, reboot the camera and export log.
 - **Factory Reset:** Click to set the device to factory defaults. Please wait 40s to re-access Web UI by refreshing the browser.
 - **Reboot:** Click to reboot the device. Please wait 40s to re-access Web UI by refreshing the browser.
 - **Export log:** Click to export the log file to local PC.

4. Support

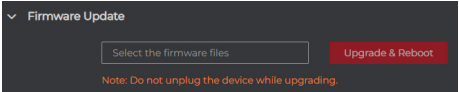


- **Device Information:** This section shows the device’s information, including device model, current version and build time.



Move the mouse to the icon  in Current Version line, it will show the version of each module.

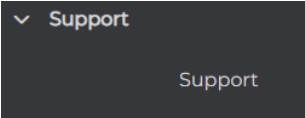
- **Firmware Update:** This section allows users to upgrade firmware.



Click “Select the firmware files” bar to upload the upgrade file with latest version from local PC, and then click “Upgrade & Reboot” to upgrade firmware. When the upgrade completes, the device will automatically reboot.

Note: Do not unplug the device during upgrading process.

- **Support:** Hover the mouse over the "Support" text. When it turns red, click it to visit the official website.



Specifications

Video & Audio	
Input & Output Port	1 x USB-C, 1 x LAN, 1 x DC 12V IN, 1 x RESET
USB 3.0/2.0 Resolution Supported	MJPEG/H.265/H.264: 320x240@30fps, 640x360@30fps, 640x480@30fps, 1280x720@30fps (default), 1920x1080@30fps, 3840x2160@30fps; NV12: 320x240@30fps, 640x360@30fps, 640x480@30fps**, 1280x720@30fps (default)*, 1920x1080@30fps* Note: <ul style="list-style-type: none">• The resolution above is only available for the main lens, and the resolution of the panorama lens is fixed 1080P@30fps, MJPEG.• “*” indicates the resolution aren’t supported by USB 2.0.• “**” indicates the default resolution for NV12 mode under USB 2.0.
Output Video Encoding	MJPEG /H.264/H.265/ NV12
USB Protocol	UVC 1.1
Camera & Sensor	
Lens	Main Lens: 8MP, 3x optical zoom, DFOV: 110° Panoramic Lens: 2MP, fixed focus, DFOV: 120°
Sensor	Main Lens: 8MP Panoramic Lens: 2MP

Camera & Sensor	
White Balance	Auto
Backlight Compensation	Auto
Digital Noise Reduction	2D, 3D Digital noise reduction supported
PTZ	Horizontal: $\pm 75^{\circ}$; Vertical: $\pm 35^{\circ}$
HDR	Supported
Tracking Mode	Auto Framing / Presenter Tracking / Individuals Gallery

Communication and Control	
Compatible OS	Windows 10/11, Mac OS 10.10 or above
USB-C	USB-C 3.0 female connector
Control Method	IR Remote, LAN (Telnet & Web UI)

General	
Operating Temperature	0°C ~ 40°C (32°F to 104°F), 10% to 90%, non-condensing
Storage Temperature	-20°C ~ 60°C (-4°F to 140°F), 10% to 90%, non-condensing
Power Supply	DC12V/3A
Power Consumption	5.8W (Max)
Dimension (Width x Height x Depth)	100mm x 99.9mm x 90.0mm / 3.94" x 3.93" x 3.54"
Net Weight	0.30kg/0.66lb

Warranty

Products are backed by a limited 1-year parts and labor warranty. For the following cases AV Access shall charge for the service(s) claimed for the product if the product is still remediable and the warranty card becomes unenforceable or inapplicable.

1. The original serial number (specified by AV Access) labeled on the product has been removed, erased, replaced, defaced or is illegible.
2. The warranty has expired.
3. The defects are caused by the fact that the product is repaired, dismantled or altered by anyone that is not from an AV Access authorized service partner. The defects are caused by the fact that the product is used or handled improperly, roughly or not as instructed in the applicable User Guide.
4. The defects are caused by any force majeure including but not limited to accidents, fire, earthquake, lightning, tsunami and war.
5. The service, configuration and gifts promised by salesman only but not covered by normal contract.
6. AV Access preserves the right for interpretation of these cases above and to make changes to them at any time without notice.

Thank you for choosing products from AV Access.

If you have any question, please contact us via the following emails:

General Enquiry: info@avaccess.com

Customer/Technical Support: support@avaccess.com

