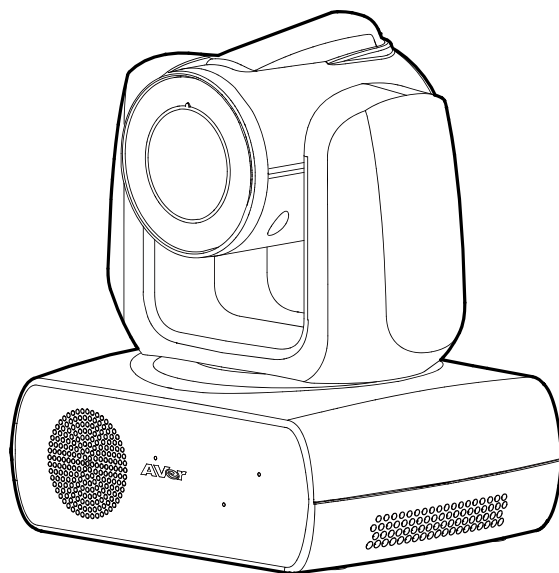




MD331UI Series PTZ Camera

— User Manual —

How to Clean and Disinfect

Warning Risk of personal injury	Do not use cleaning agents containing phenol, as phenol may cause skin burns if not rinsed thoroughly and does not contain sufficient cleaning or disinfectant properties.
Caution	1. The camera is designed for easy cleaning and disinfection. Its plastic surface is UVC-safe for disinfection. 2. Before cleaning the camera, disconnect it from the power source. 3. Cleaning procedures should only be carried out by personnel familiar with camera operation. 4. Do not spray cleaning fluid, especially water, into any internal electrical equipment or parts of the camera to avoid possible short circuits, corrosion, malfunction and electrical shock hazards to users or service personnel. 5. Corrosive cleaning agents may cause discoloration or damage the camera. Before using any cleaning agent, test it in an inconspicuous area.
When	Clean the camera before and after use.
Steps	1. Disconnect the camera from a power source. 2. Cleaning personnel must wear cleaning gloves. 3. Before using cleaning alcohol, make sure it has not expired. 4. Use a cleaning cloth dampened with cleaning alcohol (75%). 5. Wipe any surface that may come into contact with the camera. 6. Disinfect the plastic surface by using either alcohol wiping or UVC light. 7. After wiping the camera, avoid contact with bare hands.
Frequency	No regular cleaning is required. Clean before and after use.

Precautions for Use

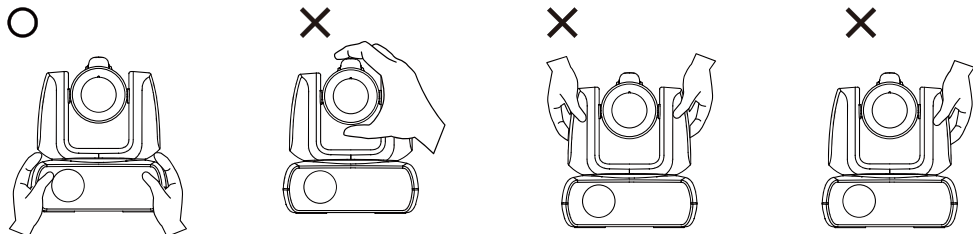
AVer does not accept any responsibility for accident or damage during installation if users do not follow the procedures described in this manual.

To installation and operation personnel

The required information including the device's hardware parts, operations and important notice has been written and illustrated in this manual. Except for the information in this manual, no special skills, training and knowledge are required for the operators. Read the user manual thoroughly and operate the device correctly and safely. For common issues, please refer to the <Troubleshooting> chapter. For further assistance, please contact AVer technical support.

- **Transportation**

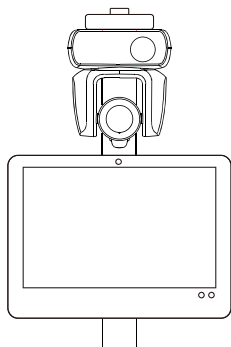
Hold the bottom of the device with both hands. Do not grab the lens or the lens holder.



- **Operating conditions**

This device is for indoor use only. Do not install or use the device in the following conditions to avoid malfunction or damage.

- Do not exposed to direct sunlight.
- Do not exposed to rain or water.
- Do not exposed to extreme temperatures. Recommended operating temperatures: 0°C to +35°C; humidity: 20% to 80%.
- Do not install the device sideways on a wall.
- At sea, in coastal areas or in locations where corrosive gases are emitted.
- Locations subject to strong vibrations, such as in vehicles or on carts travelling on uneven surfaces. The lens may fall off under strong vibrations.

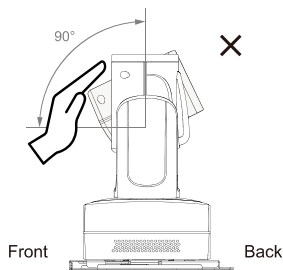


- **To ensure the device perform stably over a prolonged period**

- Do not use this unit in a location with high temperature and humidity levels, which may cause its parts to deteriorate and shorten its service life.
- Do not subject the device to sudden changes in temperature. Keep a cooling unit or heating unit away from this unit.
- Do not leave the device with the camera facing the sun.

- **Operation instructions**

- Use the device with care. Do not operate the device beyond its designed limits to avoid damage.
- Frequent manual rotation may cause device damage.



- **Always use the supplied power adapter and power cord to connect the device to a power outlet**
 - Before installation, make sure to disconnect the device from a power outlet.
 - Install the device near the power outlet to make sure the power plug can be plugged and unplugged from the power outlet easily.
 - To avoid electric arc from damaging other electrical components, connect the power cord to the DC 12V~24V power jack on the device before connecting to a power outlet.
 - The length of the power cord should be less than 3 m.
 - Do not place the device where the cord can be stepped on as this may fray or damage the cord or the plug.

- **Powering off the device**
 - The device does not have a power switch. Disconnect the device from a power outlet before maintenance, cleaning or in the event of an emergency.

- **Maintenance**
 - The device does not have a power switch. Disconnect the device from a power outlet before maintenance.
 - Designate personnel to clean the device. Please refer to the <How to Clear and Disinfect> chapter.
 - When the device surface is stained, please refer to the <How to Clear and Disinfect> chapter.
 - Regular maintenance keeps your device operational and safe. Check all parts, including the camera unit and remote control.

- **Disposal of the device**
 - When the device is no longer used, turn off the device and dispose of it properly.
 - When disposing of the device or accessories, follow relevant regulations in your country or region regarding environmental pollution.

Symbols on this Product

The symbols on this product, including the accessories, represent the following.

	The WEEE symbol. This symbol indicates that this product must not be disposed of with your other household waste. Instead, you need to dispose of the waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. For more information about where to drop off your waste equipment for recycling, please contact your household waste disposal service or the shop where you purchased the product.
	The CE compliance logo. This logo indicates that the product conforms to the relevant guidelines/standards for the European Union harmonization legislation.
	The FCC compliance logo. This logo indicates that the product conforms to Federal Communications Commission compliance standards.
	The UKCA (UK Conformity Assessed) symbol. This symbol indicates that a product placed on the Great Britain market meets the UKCA Marking requirements.
	The RCM compliance logo. This logo indicates that the product conforms with Australian RCM guidelines.
	This logo is intended to alert the users to the presence of un-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	This logo is intended to alert the users to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.
	The China RoHS symbol. The figure of this symbol represents the number of years during which no hazardous substances would leak or mutate under normal conditions of use.
	The alternating current symbol. This symbol indicates that the power input/output for the product is alternating current.
	The direct current symbol. This symbol indicates that the power input/output for the product is direct current.

Warning

To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earthing. Do not modify this equipment without authorization of the manufacturer.

Federal Communications Commission

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radiofrequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Caution

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

PSTI Statement of Compliance

Please refer to the following website: <https://www.aver.com/product-security-advisory>

DISCLAIMER

No warranty or representation, either expressed or implied, is made with respect to the contents of this documentation, its quality, performance, merchantability, or fitness for a particular purpose.

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More Help

For FAQs, technical support, software and user manual download, please visit:

Non-USA

Download Center: <https://www.aver.com/download-center>

Technical Support: <https://www.aver.com/technical-support>

USA

Download Center: <https://www.averusa.com/pro-av/support>

Technical Support: <https://averusa.force.com/support/s/contactsupport>

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Overview

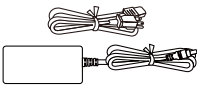
The MD331UI Series PTZ Camera is a professional-grade PTZ camera.

Note: Product design may vary by region. Please refer to your current device and consult your local sales representative or technical support for specific details.

Package Contents



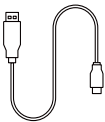
Camera



Power Adapter &
Power Cord



Remote Control

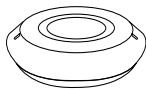


USB 3.0 Type-A to
Type-B Cable (1.5m)



Quick Start Guide

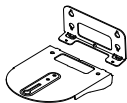
Optional Accessories



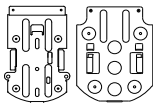
AVer Expansion
Speakerphone



AVer CL01 PTZ
Camera Controller



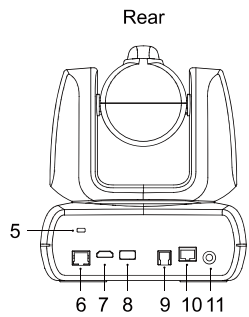
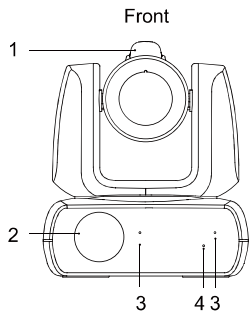
Wall Mount Bracket



Ceiling Mount Bracket
(x2)

* For detail on optional accessories, consult your local dealer.

Parts Info

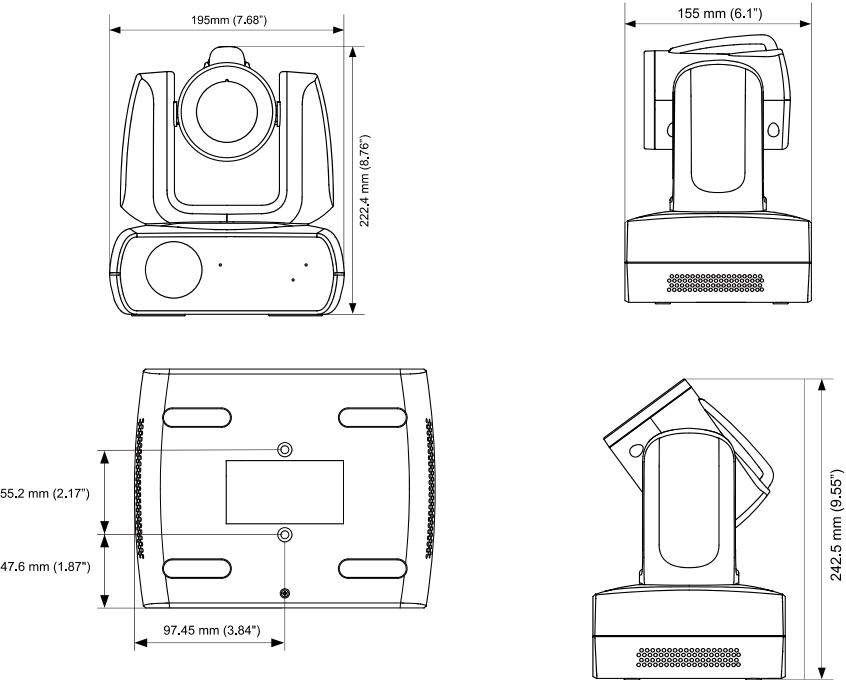


- 1. Microphone
- 2. Speaker
- 3. Microphone Array
- 4. LED Status Indicator
- 5. Kensington Lock
- 6. LAN Port
- 7. HDMI® Output
- 8. USB host Port
- 9. USB PC Port
- 10. EXP. Audio Port
- 11. DC 12V-24V Power Jack

LED Indicators

Camera Status Indicator	Privacy Indicator	Description
Off	Off	Power off
Solid purple		Privacy mode
Flashing purple		Firmware updating
Solid orange	Solid purple (Monitoring)	Mic or Speaker Mute
Flashing orange		Initializing
Solid purple		Standby
Flashing blue		Tracking ON
Flashing purple		OSD menu On

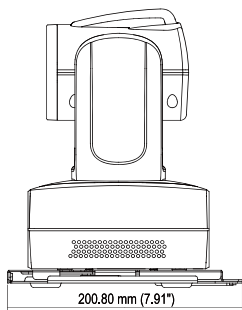
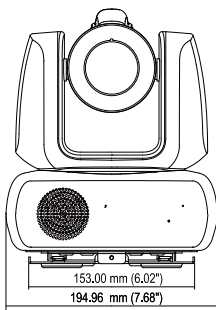
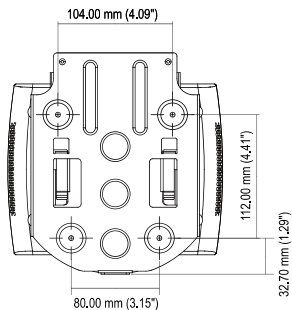
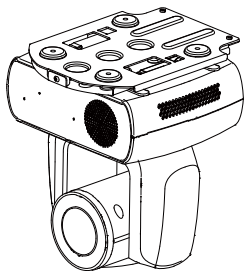
Dimensions



Bottom screw hole : 1/4"-20 UNC camera screw

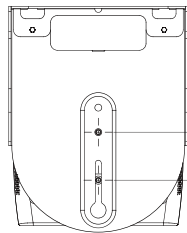
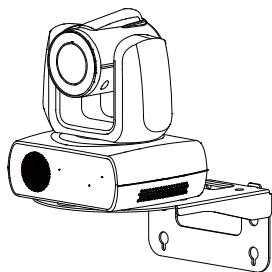
Ceiling Mount

Screws: 1/4"-20 6.5 mm (x2), M3 x 6 mm (x3)

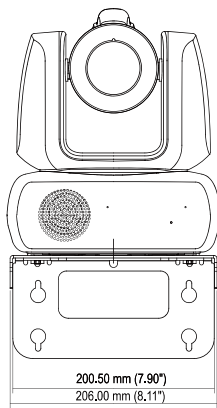


Wall Mount

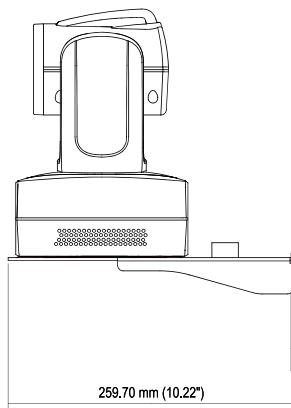
Screws: 1/4"-20 6.5 mm (x2), M4 x 8 mm (x2)



55.20 mm (2.17")



200.50 mm (7.90")
206.00 mm (8.11")



259.70 mm (10.22")

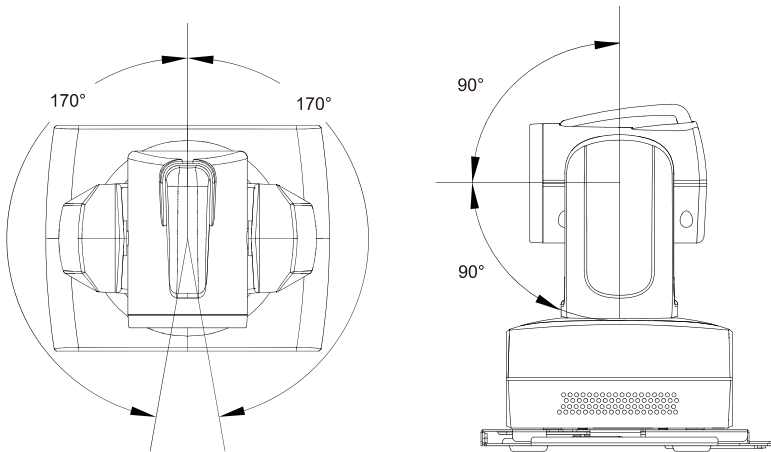
Lens Position Auto-Calibration

The MD331UI Series PTZ Camera features a lens position auto-calibration function.

If the lens angle is changed due to external force, the system can automatically detect its current position. This makes sure the lens moves correctly when using the remote control or Web UI to set the angle.

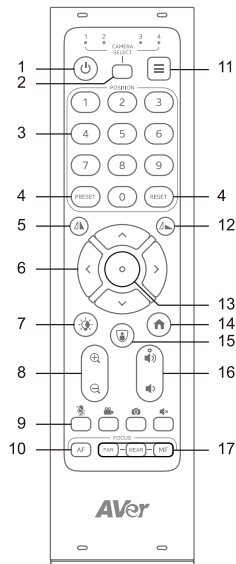
For best results, adjust the lens angle using the remote control or Web UI, since manually rotating the camera's pan/tilt function may cause damage.

Pan and Tilt Angle



Remote Control

- To open the OSD menu, press and hold **Menu**  for 3 seconds.
- To disable remote control, open the OSD menu or the web interface, go to **System > Camera Selector > Disable Remote**.
- To resume remote control, open the web interface, go to **System > Camera Selector > All Channel** or assign a number (1, 2, 3, 4) to your camera. Update to the latest firmware for buttons with an asterisk (*).



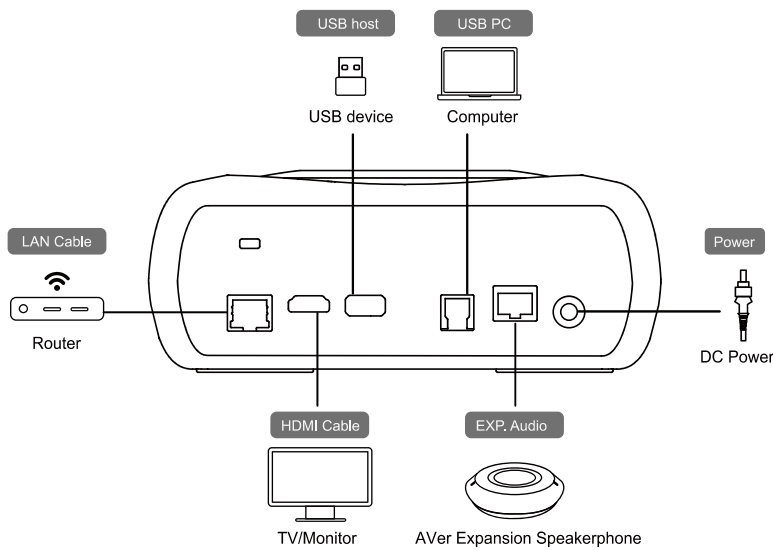
Name	Function
1. Power	Enter Standby Mode or wake up.
2. Camera Select	No selection is required to operate the camera by default. • The remote is set to channel 1, and the camera responds to all channels at the factory. • To assign a number to the camera, go to System > Camera Selector in the OSD menu.
3. Number Buttons	Press Number button (0-9) to load defined preset 0-9.
4. Preset/Reset	• To save a preset, press and hold Preset, then a Number button (0-9). • To reset a preset, press and hold Reset, then press a Number Buttons (0-9).
5. Mirror*	Mirror the image.
6. Pan-Tilt Control	Pan and tilt direction control.

7. IR Night vision*	Turn IR night vision on or off.
8. Zoom In/Out	Zoom in or out.
9. Function Buttons	• Mic: Mute or unmute the microphone. • Rec: N/A • Snap: N/A • Speaker: Mute or unmute the speaker
10. Auto Focus*	Turn Auto Focus on or off.
11. Menu*	Press and hold for 3 seconds to open the OSD menu. • To change to a short press, go to System > Trigger OSD in the OSD menu.
12. Flip*	Flip the image.
13. Enter	• Confirm a selection in the OSD menu. • Press to auto focus once.
14. Home	Reset the pan-tilt position to the center.
15. Privacy	Enter or exit Privacy mode. (The camera points downward, stops video, and mutes the microphone.)
16. Volume +/-	Speaker volume up or down.
17. Far / Near / Manual Focus	Press Manual Focus to turn on Manual Focus first, then press Far or Near to adjust focus manually.

Shortcuts

Press	To
Menu  for 3 seconds	Open the OSD menu.
Enter	Press to auto focus once.
Menu  then Zoom In 	Turn ON/OFF IR Night Vision or LEDs.
Menu  then Zoom Out 	IR Night Vision set to Auto/OFF.
5 five times (55555)	Set camera IP into DHCP.
6 six times (666666)	Reset the camera to factory default settings.
8 eight times (88888888)	Set the camera's static IP address to 192.168.1.168.

Connections

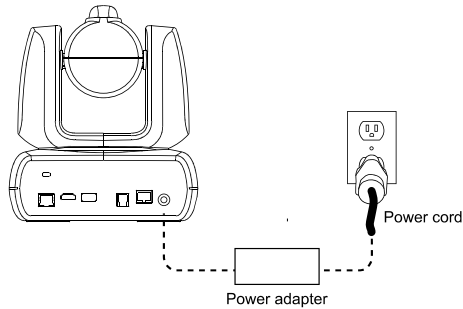


Port	Description
Ethernet port	Connect to a router to access the device's web interface.
USB PC	Connect to a computer to transmit video and audio.
USB host	Support USB host mode.
HDMI port	Connect to a TV or monitor with a grounding design.
EXP. Audio *	Connect AVer extended audio device.
DC power jack	Connect to a power outlet using the supplied power adapter and power cord.

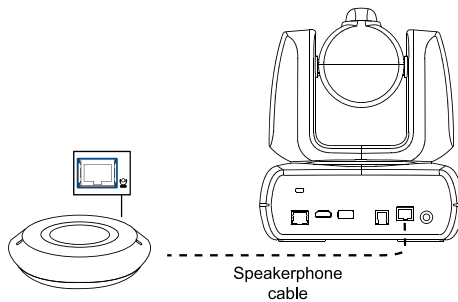
* The AVer Extended Audio Device is an optional accessory. For detailed features and specifications, please contact Technical Support or your sales representative.

Device Connection

1. Connect the camera to the power outlet.



2. The MD331UI camera can be connected to one AVer Expansion Speakerphone with a compatible cable.



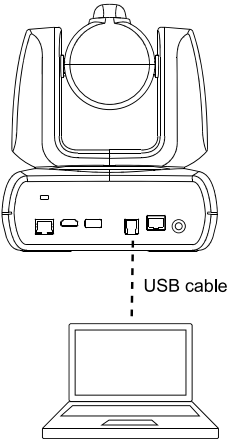
Note:

- Supports connection of only one AVer expansion speakerphone.
- The AVer Expansion Speakerphone is powered directly by the MD331UI; no additional power supply is required.
- The AVer expansion speakerphone is an optional accessory. For detailed features and specifications, please contact Technical Support or your sales representative.

3. Connect other necessary cables.

Make sure the cables are well connected to the connector on the camera.

4. Connect the camera to the computer/laptop using the included compatible cable.



Note:

- Use the USB 3.0 cable included in the package.
- MD331UI has the USB 3.1 port which is USB 2.0 compatible.

Maximum resolution/fps for USB 2.0 and USB 3.1 ports are shown below.

	M-JPEG/fps	YUV/fps
USB 2.0	Max 4K@60	720P@15
USB 3.1	Max 4K@60	1080P@30

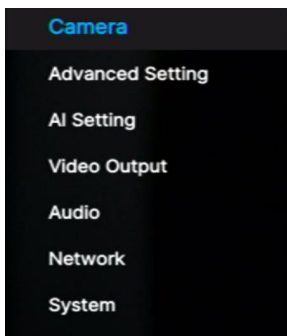
Set Up Your Camera

You can configure camera settings using the OSD menu or the web interface of the camera.

OSD Menu

To access the OSD menu, connect the camera to a monitor or TV using an HDMI cable, and then use the supplied remote control to operate the OSD menu.

Press and hold **Menu**  for 3 seconds to open the OSD menu, use pan-tilt controls keys **<**, **>**, **^**, **v** to navigate, and press **Enter** to confirm a selection.



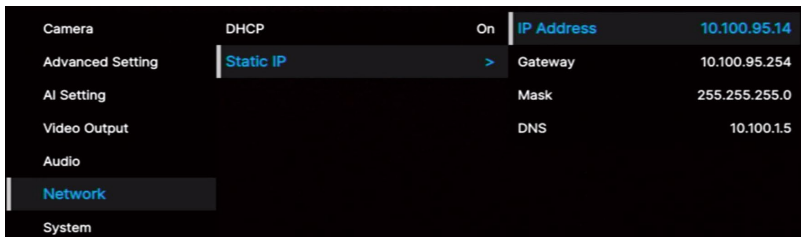
IP Address Setup

Static IP

1. Press and hold **Menu**  for 3 seconds on the remote control to open the OSD menu.
2. Go to **Network > Static IP**.

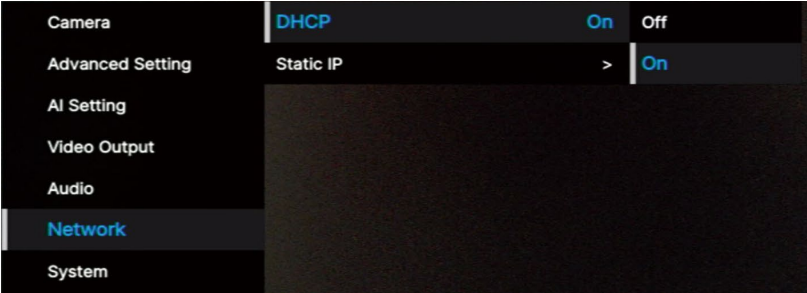
[Note] Turn the **DHCP** off before setting up static IP (**Network > DHCP > OFF**).

3. Select the **IP Address**, **Gateway**, **Netmask**, and **DNS** to configure. Press **Enter** and use the number buttons to enter the value.



DHCP

- 1. Press and hold **Menu**  for 3 seconds on the remote control to open the OSD menu.
- 2. Select **Network > DHCP > On**.
- 3. Press **Enter** to confirm setting.



- 4. After turning the **DHCP** on, you can go to **System > Information** to view the IP address.

Camera	Trigger OSD	Click Menu to open	Model Name	MD331UI
Advanced Setting	Camera Selector	All	Serial Number	
AI Setting	Status OSD	Off	Version	1.1.1005.0
Video Output	Language	English	IP Address	10.100.95.14
Audio	Information	>	MAC	36:69:88:1f:ce:01
Network	Factory Default	>	Lens	C008
System	System Reboot	>	Mcu	0205
			PT	0107
			FPGA	20251211

OSD Menu Tree

1 st Level	2 nd Level	3 rd Level	4 th Level
Camera	Exposure Mode	Full Auto	Exposure Value
			Gain Limit Level
			Slow Shutter
			BLC
			WDR
		Shutter Priority	Exposure Value
			Shutter Speed
			Gain Limit Level
		Iris Priority	Exposure Value
			Iris Level
			Gain Limit Level
			Slow Shutter
		Manual	Shutter Speed
			Iris Level
			Gain Level
		Bright	Bright value
	White Balance	Auto	
		ATW	
		Indoor	
		Outdoor	
		One push trigger	
		Manual	R gain
			B gain
	Pan Tilt Zoom	PTZ Control Profile	PAV Mode / MD Mode
		Preset Speed	5, 25, 50, 100, 150, 200
		Preset Accuracy	Off / On
		Pan Speed	1~24
		Tilt Speed	1~24
		Zoom Speed	Low / High
		P/T Spd. Relative Z Ratio	Off / On
		Pan L/R Dir. Switch	Off / On
		Focus Mode	Manual / Auto

1 st Level	2 nd Level	3 rd Level	4 th Level
		Focus Type	AF Trigger after PTZ / Continuous AF
	Noise reduction	Off / Low / Middle / High	
	Saturation	0~10	
	Contrast	0~4	
	Sharpness	0~3	
	Mirror	OFF / ON	
	Flip	OFF / ON	
Advanced Setting	IR Cut Filter Mode	Auto / Day / Night	
	IR Cut Sensitivity	Low / Middle / High	
	AI Mosaic	OFF / NET / HDMI / UVC	
	Mosaic Type	Full Face / Body	
AI Setting	Eyes Tracking	Eyes Tracking	Off / On
		Tracking Site	Save
		Tracking Type	Full Face / Eyes
		Tracking Range	Close / Medium / Wide
		Timeout to Site	3/5/7/10 sec
	Fall/Egress Detection	Fall/Egress Detection	Off / On
Video Output	Frequency	60	
		59.94	
		50	
	Resolution	2160P60	
		2160P30	
		1080P60	
		1080P30	
		1080I/60	
		720P/60	
	DIS	OFF	
		ON	
	Color Format	YUV444	
		RGB888	
Audio	Audio Input	Input Type	Omnidirectional / Directional/ Expansion

1 st Level	2 nd Level	3 rd Level	4 th Level
		Auto Gain Control	On/ Off
		Audio Echo Cancel	OFF/ON
		Noise Suppression	OFF / DSP NR / AI NR / NR Strong
		Noise Suppression Value	1~40
		Audio In Volume	Mute / 1~10
	Audio Output	Output Type	Speaker/HDMI/Both
		Output Volume	Mute / 1~10
Network	DHCP	OFF	
		ON	
	Static IP	IP Address	192.168.1.168
		Gateway	192.168.1.254
		Mask	255.255.255.0
		DNS	8.8.8.8
System	Trigger OSD	Click Menu to open / Press Menu 3 sec (Long Press)	
	Camera Selector	1,2,3,4,All channel, Disable Remote	
	Status OSD	OFF	
		ON	
	Language	English / 繁體中文 / 日本語	
	Information	Model Name	MD331UI
		Serial number	xxxxxxxxxxxxx
		Firmware Version	0.0.0000.00
		IP	192.168.1.168
		MAC	00:18:1a:04:9e:81
		Lens	xxxx
		Mcu	xxxx
		PT	xxxx
		FPGA	xxxx
	Factory Default	Off / On	
	System Reboot	Off / On	

Access the Web Interface

To access the web interface of the camera, you can use any of the following software to find its IP address:

- AVer Device Utility
- AVer ViewCare

Note: The camera default network is Static IP (192.168.1.168) °

AVer Device Utility

AVer Device Utility

Network Device

Intel(R) Ethernet Connection (2) I219-

Search

No.	Status	Progress	Model Name	Device Name	FW version	IPv4 Address	MAC Address
1	Working		MT100	MT100	0.0.0000.25	10.100.90.45	00:18:1a:e2:e0:72
2	Working		PTC310HWV2	PTC310HWV2	0.1.0000.85 [D-H]	10.100.90.17	00:18:1a:0c:a6:d1
3	Working		VB370A	VB370A	0.1.1002.58	10.100.90.50	36:69:88:11:11:2a

Setting

Device Name:

● DHCP

○ Static IP

Login

User ID

Password

IP Address:

Mask:

Gateway:

Primary DNS:

Secondary DNS:

Apply

To access the web interface:

1. Download AVer Device Utility from AVer Download Center (<https://www.aver.com/download-center>) and launch the software.
2. Click **Search** to see available devices on the same local area network (LAN).

Note:

- Make sure your device is connected to the internet.
- AVer Device Utility and your device must be on the same LAN.

3. Double-click on your device's IP address in the **IPv4 Address** column to open the web interface in your browser.

When you log in for the first time:

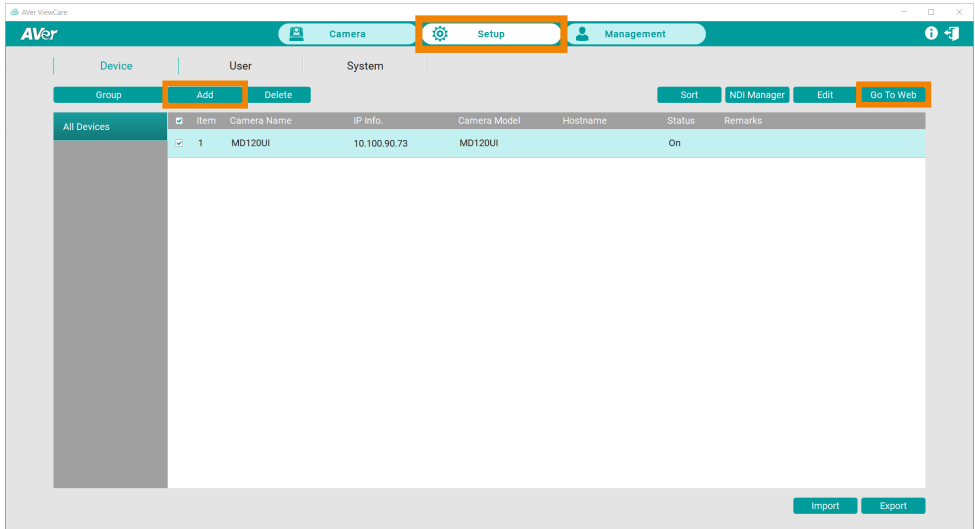
Change the username and password before logging in to the web interface.

- Username: Use 1-32 characters.
- Password: Use 8-32 characters and a combination of uppercase letters, lowercase letters, numbers, and symbols (%+=, _ ^/ @. ~). The password cannot be the same as the username.

To change your network to DHCP or static IP:

1. Select the checkbox of your camera.
2. Enter the changed username and password in the **Login** field.
3. Select **DHCP** or **Static IP**, then enter your network settings if applicable in the **Settings** section.
4. Click **Apply**.

AVer ViewCare

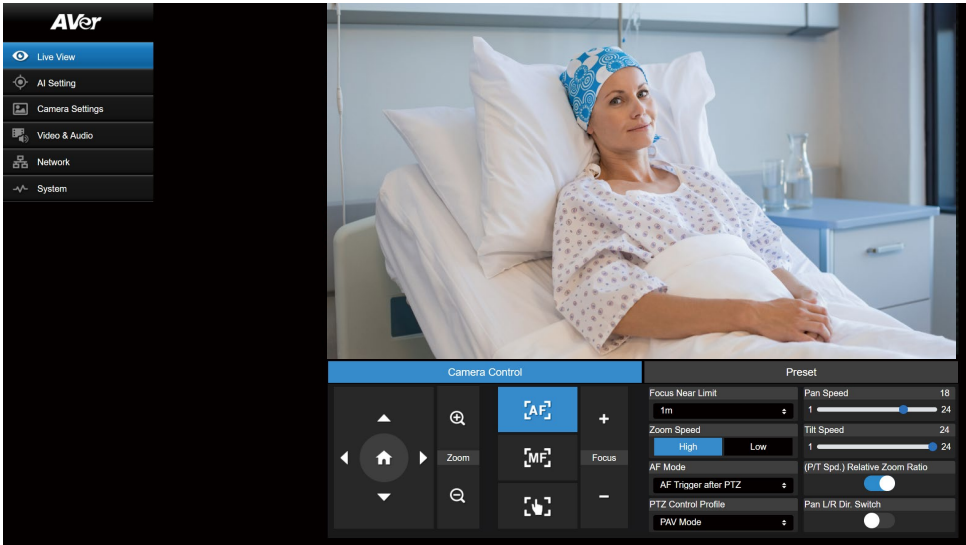


Note: The AVer ViewCare default username and password is **admin/admin**.

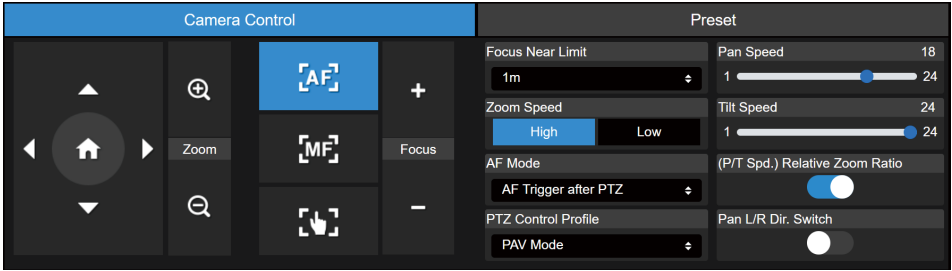
1. Download AVer ViewCare from AVer Download Center (<https://www.aver.com/download-center>) and launch the software.
2. Log in with the AVer ViewCare default username and password **admin/admin**. Then enter your email address for password recovery.
3. Go to **Setup > Add**, then click **Auto Search** to see available devices on the same local area network (LAN).
4. Click to select your camera, enter the changed camera username and password, then click **Save** to add the camera to the device list.
5. Select the checkbox of your camera, then click **Go to Web** button to open the web interface in your browser.

Web Interface

Live View



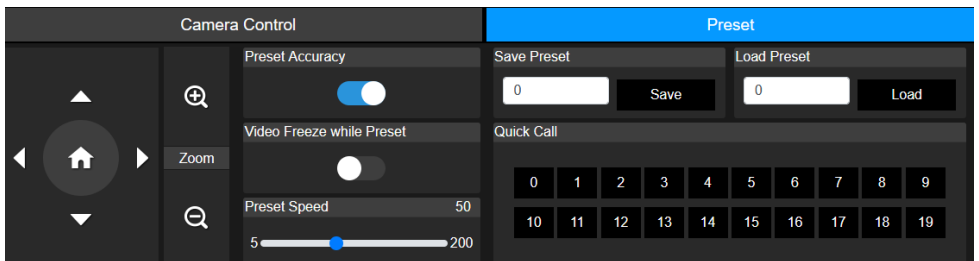
Camera Control



Item	Description
Pan and Tilt Controls	Position the camera. • Drag the slider to adjust Pan Speed and Tilt Speed. • Turn on Pan L/R Dir. Switch to invert panning direction. • Turn on (P/T Spd.) Relative Zoom Ratio automatically adjust pan and tilt speeds based on the zoom ratio.
Home Position 	Move the camera to the Home position.

Zoom 	Zoom in or zoom out the live view and select Zoom Speed (High / Low).
Focus +/-	 Auto Focus: Click to automatically focus.  Manual Focus: Click to manually focus. Adjust the focus with +/- buttons.  One Push Focus: Click to automatically focus once. Focus Near Limit: Set up the nearest focus limit.
AF Mode	Select Autofocus Mode AF Trigger after PTZ: Performs autofocus after PTZ movement. Continuous AF: Focus is continuously adjusted.
PTZ Control Profile	Select the PTZ movement in PAV mode or MD mode.

Preset



Item	Description
Save Preset	- Position the camera using pan, tilt and zoom controls. - Enter a preset number (0~255) in the Save Preset field and click Save.
Load Preset	- Enter a preset number (0~255) in the Load Preset field and click Load. - Or click a preset number (0~19) in the Quick Call section.
Preset Accuracy	Turn on to improve the accuracy of moving to presets.
Video Freeze while Preset	Turn on to display only the live view from presets. The live view from the moving path will not be displayed.
Preset Speed	Adjust the camera speed when moving to presets.

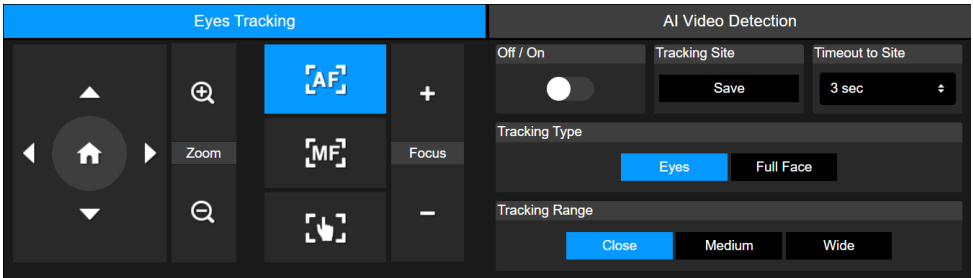
AI Setting

Detection and Tracking can't be turned on at the same time.



Eyes Tracking

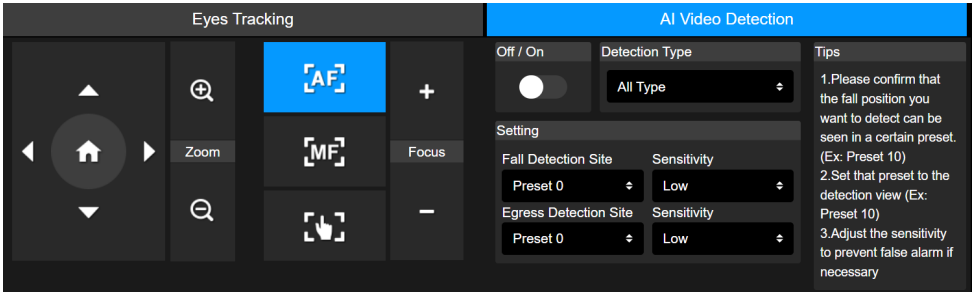
Manually adjusting pan, tilt and zoom controls during Eyes Tracking will turn off the function.



1. Position the camera using pan, tilt and zoom controls and then click **Save** to save a **Tracking Site**. The default is the Home position.
2. From the **Timeout to Site** drop-down list, select an interval before the camera returns to the tracking site when no one is on screen. The default is 3 seconds.
3. Select **Tracking Type** and **Tracking Range**.

4. Toggle on eyes tracking.
- One person: The camera automatically tracks and zooms in on the face.
 - Multiple people: The camera frames all faces in bounding boxes. Click a square to select a face you want to track and zoom in on.

AI Video Detection



To set up fall or egress detection:

1. Make sure you have defined the required preset where a fall or egress event may occur.
2. Select that preset from the **Fall Detection Site** or **Egress Detection Site** drop-down list, and select the detection sensitivity.
3. Select the **Detection Type**.
4. Toggle on AI video detection.

DISCLAIMER

Learn about the accuracy and limitations of the AI video detection.

The AI video detection is an advanced technology designed to enhance patient safety in hospital environments.

Limited Accuracy

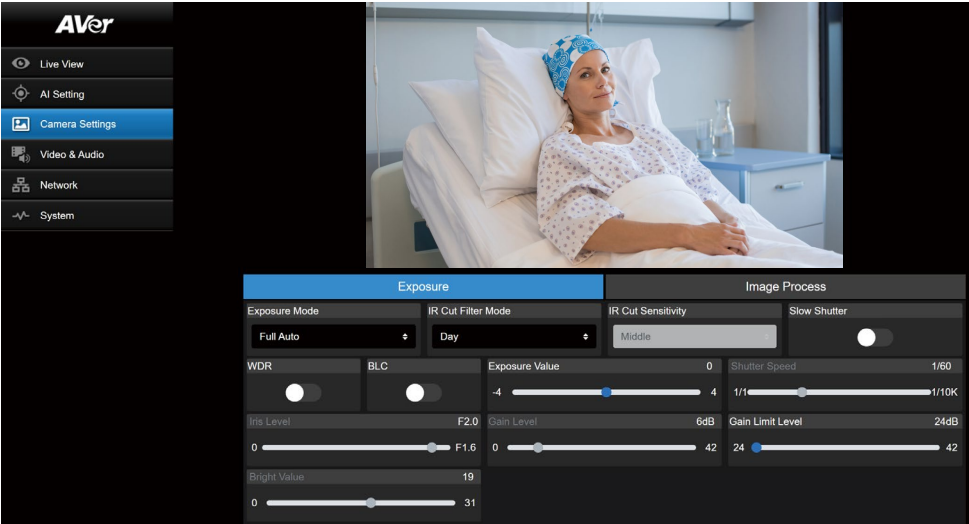
The ability of the AI video detection to accurately identify a fall or egress event was tested in a controlled environment. This does not guarantee the successful identification and alarms for all fall or egress events in real world use. Many factors can affect the performance of the AI video detection, such as an obstructed field of view or restricted view angle.

Dose not Replace Caregivers

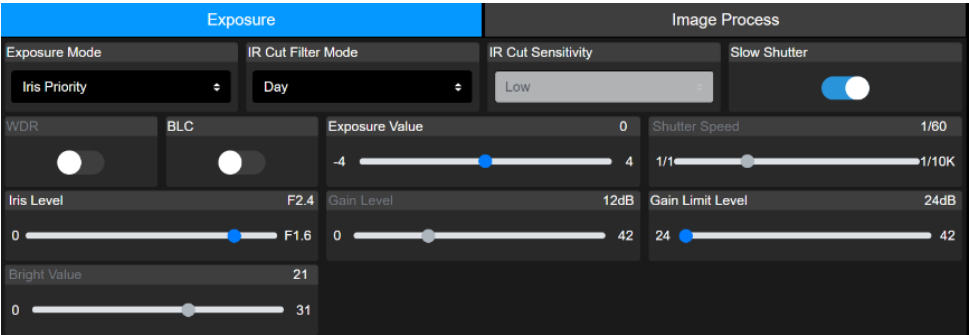
The AI video detection is intended as an assistive tool and must not be used as the replacement for caregivers. Frameworks which mandate periodic checks by a trained professional to ensure patient safety and which relate to clinical diagnosis, patient care or treatment must remain in place. If AI video detection fails to respond as described, take appropriate action immediately.

The AI video detection is intended as an assistive tool and is not part of a medical device. It is not a patient monitor and cannot be used to make a medical or clinical decision.

Camera Settings



Exposure



Item	Description
Exposure Mode	Select an exposure mode.
WDR	Turn WDR or BLC on or off.
BLC	
Exposure Value	Adjust exposure, shutter, iris and gain.
Shutter Speed	
Iris Level	
Gain Level	
Gain Limit Level	

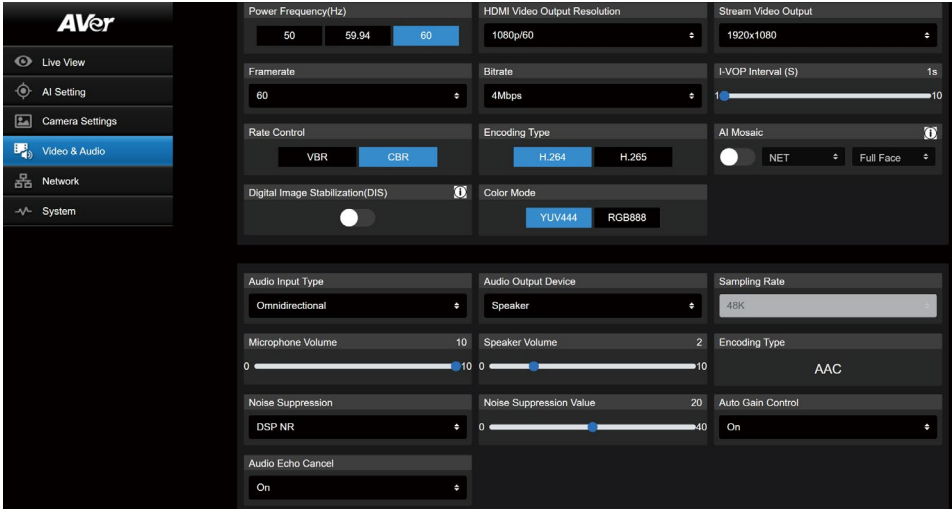
IR Cut Filter Mode	Select Day mode, Night mode to switch infrared night vision on or off., Or select Auto mode and adjust IR Cut Sensitivity .
Slow Shutter	Turn Slow Shutter on or off.
Bright Value	Adjust brightness.

Image Process

The screenshot shows the 'Image Process' menu. It includes sliders for R Gain (66), B Gain (78), Saturation (5), Contrast (2), and Sharpness (2). There are also toggle switches for Mirror and Flip, both currently turned off. At the bottom, there is a Noise Filter section with buttons for Off, Low (selected), Middle, and High. A 'White Balance' section at the top left shows 'AWB' selected and a 'One Push' button with a 'Set' label.

Item	Description
White Balance	- Select a white balance mode. When Manual is selected, you can also adjust the R Gain and B Gain. - When One Push is selected, place a piece of white paper in front of the camera lens and click Set to calibrate white balance.
Saturation	Adjust saturation, contrast and sharpness.
Contrast	
Sharpness	
Mirror	Turn Mirror or Flip on or off.
Flip	
Noise Filter	Select a noise filtering level.

Video & Audio



Video Setting

Item	Description
Power Frequency (Hz)	Select 50Hz , 59.94Hz or 60Hz based on your country or region.
HDMI Video Output Resolution	Select an HDMI video output resolution. RTSP: Max. 4K/60fps HDMI: Max. 4K 60Hz
Stream Video Output	Select a streaming output resolution.
Framerate	Select a framerate
Bitrate	Select a bitrate.
I-VOP Interval (S)	- Drag the slider to choose how often I-VOPs appear in a video stream. - Shorter I-VOP intervals result in higher video quality but also larger file sizes.
Rate Control	Select VBR or CBR .
Encoding Type	Select H.264 or H.265 .
AI Mosaic	Turn on to pixelate the face or entire body for privacy on the IP stream.
Digital Image Stabilization (DIS)	Turn on to reduce camera shake for smoother video. May slightly distort image, reduce the frame rate to 30fps and narrow the field of view.
Color Mode	Select an HDMI color mode. This setting is retained after a factory

	reset. Tips: DVI displays often expect RGB signals. If the image appears tinted (e.g., purple), try setting the color mode to RGB888.
--	--

Audio Setting

Item	Description
Audio Input Type	Select Omnidirectional for all-direction sound, or Directional for front-focused sound. Select Expansion to connect an AVer Expansion Speakerphone.
Audio Output Device	Select an audio source.
Sampling Rate	48K
Microphone Volume	Drag the slider to adjust the microphone volume.
Speaker Volume	Drag the slider to adjust the speaker volume.
Encoding Type	AAC
Noise Suppression	Select a noise suppression setting. Start with NR before trying other options closer to your use case.
Noise Suppression Value	Adjust the noise suppression level.
Auto Gain Control	Turn on to automatically adjust audio volume.
Audio Echo Cancel	Turn on to reduce echo from speakers.

Network

AVer

Live View

AI Setting

Camera Settings

Video & Audio

Network

System

Network Setting

DHCP

IP Address

10.100.105.123

Gateway

10.100.105.254

Hostname

AVer

Netmask

255.255.255.0

DNS

10.100.1.5

Confirm

RTMP Setting

Not Streaming

Server URL

Stream Key

Start Stream

STOP

RTSP Settings

Security

RTSP URL

live_st1

Save

HTTPS

Upload Certificate

Cert Status: None

Choose File

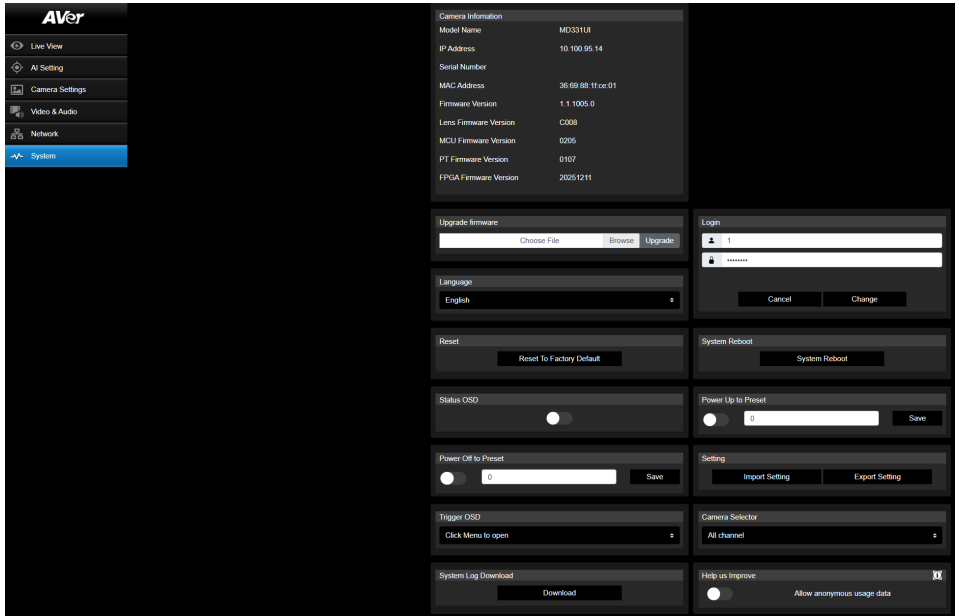
Browse

Upload

Item	Description
Hostname	The default hostname is AVer. Change the hostname to be displayed on devices such as an IP router.
DHCP	Set the network to DHCP or Static IP . - DHCP: Turn on DHCP and click Confirm to save the setting. The camera will be assigned IP settings automatically. - Static IP: Turn off DHCP, enter IP Address, Netmask, Gateway and DNS, and click Confirm to save the settings.
RTMP Setting	Stream live video to a video platform such as YouTube. - Enter the Server URL and Stream Key of your video platform. Please refer to the instruction of your platform to obtain the server URL and stream key. - Click Start Stream to start streaming, Stop to stop streaming.
RTSP Settings	Protect your video stream on media players such as VLC, PotPlayer and QuickTime by ensuring that only authorized users can access it. - When Security is turned off: - Enter your camera's RTSP URL into the media player. - RTSP URL: rtsp://[camera IP address]/live_st1 Example: rtsp://192.168.1.100/live_st1 - When Security is turned on: - Enter your camera's RTSP URL and username/password into the media player. - RTSP URL: rtsp://[username:password]@[camera IP address]/live_st1

	Example: rtsp://1:1@192.168.1.100/live_st1 3. username/password: camera's username/password (web interface login)
HTTPS	Enable HTTPS to establish a secure connection between your browser and your camera. To enable HTTPS access on your camera: 1. Obtain a SSL certificate for encryption and decryption in base-64 encoded format and use a private key in PKCS#8 format (unencrypted). 2. Package the required certificate content into PEM format. The SSL certificate uploaded to the camera must be in PEM format. 3. Click Browse to select the certificate file, and then click Upload. 4. Turn on HTTPS.

System

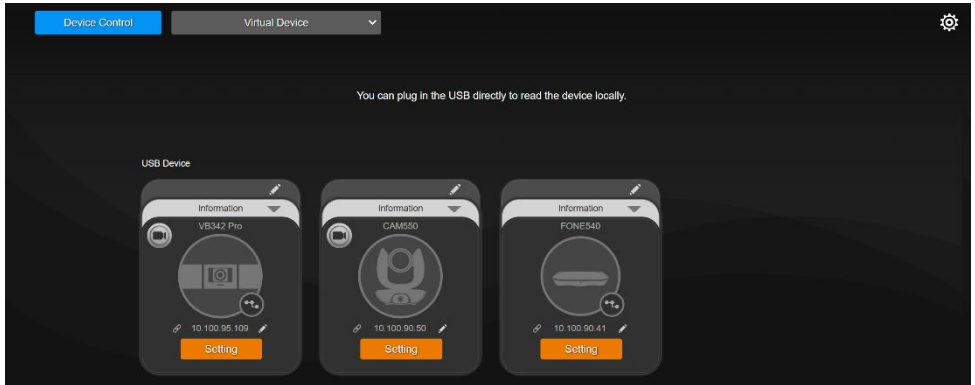


Item	Description
Camera Information	Display camera information.
Upgrade Firmware	Follow these steps to upgrade the firmware: 1. Download the latest firmware from the AVer Download Center (https://www.aver.com/download-center/). 2. On the Web page, go to System > Upgrade firmware. 3. Click Browse to select the firmware. 4. Click Upgrade to start upgrading the firmware. 5. Refresh the browser after the upgrade process is complete. Note: Keep your camera connected to a power source during firmware upgrade. Network connection will be lost during the process and camera will reboot automatically after upgrading.
Login	The default username and password is admin/admin . To change the username or password, enter the new name or password and click Change .
Language	Change the web interface language.
Reset	Reset the camera to factory default settings.
System Reboot	Restart your camera.
Status OSD	Enable to display preset status on the HDMI output during functions

	such as saving, loading and canceling presets.
Power Up to Preset	When enabled, the camera will move to the defined position after powering on. • Toggle on > enter a preset number > click Save. • Make sure the preset number has been defined before enabling this function.
Power Off to Preset	When enabled, the camera will move to the defined position before powering off. • Toggle on > enter a preset number > click Save. • Make sure the preset number has been defined before enabling this function.
Setting	Import or export your camera settings.
Trigger OSD	Select how the OSD menu is opened with the remote control.
Camera Selector	Assign a number to your camera that corresponds to the Camera Select buttons on the remote control. When All Channel is selected, no selection is required on the remote control to operate your camera
System Log Download	Click to download system log.
Help Us Improve	Opt-in or opt-out of providing anonymous usage data.

Room Management

Configure Settings on Room Management



1. Download and install Room Management (formerly PTZApp 2) to your computer from AVer Download Center. (<https://www.aver.com/download-center>) and launch the software.
2. Connect your device to your computer using the included USB cable. Your device should appear under the **Device Control** page.
3. Click **Setting** to system settings.



Specifications

Camera	
Image Sensor	1/2.8" Exmor CMOS
Effective Picture Elements	8 Megapixels
Output Resolutions	4K/p60, 4K/59, 4K/50, 4K/30, 4K/29, 4K/25, 1080/60, 1080/59, 1080/50, 1080/30, 1080/29, 1080/25, 1080i/60, 1080i/59, 1080i/50, 720/60, 720/59, 720/50
Minimum Illumination	0.7 lux (IRE50, F1.6, 30fps)
S/N Ratio	≥ 50dB
Gain	Auto, Manual
Shutter Speed	1/1 to 1/10,000 sec
Exposure Control	Full Auto, Manual, Priority AE (Shutter, IRIS), BLC, WDR
White Balance	AWB, ATW, Indoor, Outdoor, One push, Manual
Optical Zoom	30X
Viewing Angles	DFOV: 75.5° (Wide) to 3.1° (Tele) HFOV: 68.0° (Wide) to 2.7° (Tele) VFOV: 41.7° (Wide) to 1.5° (Tele)
Focal Length	f = 4.3 mm (Wide) to 129 mm (Tele)
Aperture (Iris)	F = 1.6 (Wide) to 4.7 (Tele)
Minimum Working Distance	Wide: 0.01 m, Tele: 1.2 m
Pan / Tilt Angles	Pan: ±170°, Tilt: +90° / -90°
Pan / Tilt Speed (Manual)	Pan: 0.1° to 100°/sec, Tilt: 0.1° to 100°/sec
Preset Speed	Pan: 200°/sec, Tilt: 200°/sec
Preset Position	10 (IR), 256 (RS-232 / IP)
Camera Control - Protocols	VISCA (RS-232 / IP), PELCO-D & PELCO-P (RS-232), CGI (IP)
Image Processing	Noise Reduction (2D / 3D), Flip, Mirror
Power Frequencies	50Hz / 59.94Hz / 60Hz
Speaker	
Embedded Speaker	Yes
SPL	77 dB SPL (1W; 1m)
Maximum Output	90 dB SPL at 0.5 meter
Microphone	
Built-in Microphone	Yes (Omnidirectional / Directional)
AI Noise Reduction	Yes

Pickup Range	5 meters
Sensitivity	-33 dBFS
Frequency Response	20 Hz to 20,000 Hz
Maximum SPL	133 dB SPL at 0.5 meter
Interface	
Video Outputs	HDMI, IP, USB
Audio Outputs	HDMI, IP, USB
General	
Power Requirement	Please use the included power adapter.
Power Input	12–24 Vdc, 60W max
Power Consumption	60W
Dimension (W x H x D)	195 x 222.4 x 155 mm
Net Weight	2.56 kg
Application	Indoor
Security	Kensington Slot
Remote Control	Infrared
Operating Conditions	Temperature: 0°C to +35°C; Humidity: 20% to 80% Atmospheric Pressure: 700 ~ 1060hpa
Storage and Transportation Conditions	Temperature: -20°C to +60°C; Humidity: 20% to 95% Atmospheric Pressure: 500 ~ 1060hpa
IP Streaming	
Resolution	4K, 60fps
Network Video Compress Formats	H.264, H.265
Maximum Frame Rate	4K, 30fps
Network interfaces	10 / 100 / 1000 Base-T
Multi-Stream Capability	2 (RTSP / Web Page), 4K 30fps (max.)
Network Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, RTP / RTCP, RTSP, RTMP, VISCA over IP
USB	
Connector	USB 3.0
Video Format	MJPEG, YUY2
Audio Format	PCM
USB Video Class (UVC)	Video: UVC1.1 Audio: UAC1.0

Software Tools	
IP Search and Configuration Tool	AVer ViewCare , AVer Room Management

Specifications are subject to change without prior notice.

Troubleshoot

How to open the on-screen display (OSD) menu?

1. Make sure your device is connected to a monitor using an HDMI cable.
2. Press and hold the Menu button for 3 seconds to open the OSD menu.
3. A Flashing purple light on the LED indicator will indicate that the OSD menu is turned on.