

MD720UIS All-in-One PTZ Camera

— **User Manual** —

How to Clean and Disinfect

Warning Risk of personal injury	Do not use cleaning agents containing phenol. Phenol may cause skin burns if not rinsed thoroughly and does not contain sufficient cleaning or disinfectant properties.
Caution	<ol style="list-style-type: none">1. The camera is designed for easy cleaning and 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	<ol style="list-style-type: none">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. After wiping the camera, avoid contact with bare hands.
Frequency	No regular cleaning is required. Clean before and after use.

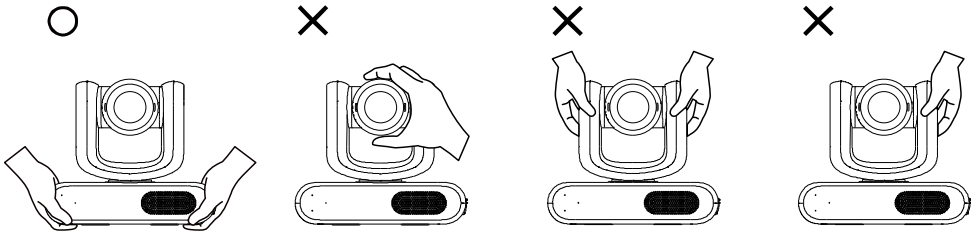
Precautions for Use

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

The AVer MD720UIS Tracking Camera is a medical grade all-in-one designed for physicians and caregivers, and suitable for use in a hospital examination room, patient monitoring and similar medical environments. This non-contact device can be operated by physicians and caregivers without physical contact with patients, to document and update patients' injuries by taking snapshots or record videos.

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.
- When transporting the device, package it in its original box.

• 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.

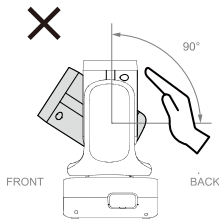
- Do not exposed to direct sunlight.
- Do not exposed to rain or water.
- Do not exposed to extreme temperatures. Recommended operating temperatures: 0°C to +35°C; humidity: 20% to 80%.
- Do not install the device sideways on a wall.
- At sea, in coastal areas or in locations where corrosive gases are emitted.
- Locations subject to strong vibrations. This unit is not suitable for use in vehicles or on carts travelling on uneven surfaces.

- **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**

- Make sure the cables behind the device are untangled before powering on the device.
- Use the device with care. Do not operate the device beyond its design limits to avoid damage.
- Do not connect the lens cable to computers, USB ports, or USB extension cables as doing so will damage the device. The lens cable is not a standard USB cable.
- Make sure the lens cable installed behind the lens is untangled before powering on the device.
- Use the device with care. Do not operate the device beyond its designed limits to avoid 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.
- MD720UIS can also be power using a PoE++ Network switch.
- To avoid electric arc from damaging other electrical components, connect the power cord to the DC 12V 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**

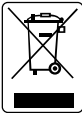








- The device does not have a power switch. Disconnect the device from a power outlet before maintenance.
- Designate personnel to clean the device. Please refer to the <How to Clean and Disinfect> chapter.
- When the device surface is stained, please refer to the <How to Clean and Disinfect> chapter.
- Regular maintenance keeps your device operational and safe. Check all parts, including the lens, 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 and medical facility regarding environmental pollution.

Symbols on this Product

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

	<p>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.</p>
	<p>The CE compliance logo. This logo indicates that the product conforms to the relevant guidelines/standards for the European Union harmonization legislation.</p>
	<p>The FCC compliance logo. This logo indicates that the product conforms to Federal Communications Commission compliance standards.</p>
	<p>The UKCA (UK Conformity Assessed) symbol. This symbol indicates that a product placed on the Great Britain market meets the UKCA Marking requirements.</p>
	<p>The RCM compliance logo. This logo indicates that the product conforms with Australian RCM guidelines.</p>
	<p>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.</p>
	<p>This logo is intended to alert the users to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.</p>
	<p>The alternating current symbol. This symbol indicates that the power input/output for the product is alternating current.</p>
	<p>The direct current symbol. This symbol indicates that the power input/output for the product is direct current.</p>

FCC Compliance Statement

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.

This product is intended to be supplied by a Listed Power Adapter or DC power source marked "L.P.S." (or "Limited Power Source"), output rating 12 Vdc, min. 5 A minimum (supplied by a power adapter) or 42.5-57Vdc, 1.2A minimum (supplied by PoE), T_{ma} = 40 degree C minimum. If need further assistance, please contact AVer Information Inc for further information.

If using Class I adapter, power cord shall be connector to a socket-outlet with earthing connection.

PoE

The PoE++ port is connected only to PoE networks without routing to the outside plant.

PSTI Statement of Compliance

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

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

USA

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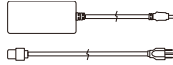
Overview

The MD720UIS Tracking Camera is a medical grade camera designed for patient monitoring. It features infrared night vision and UV-resistant casing.

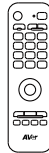
Package Contents



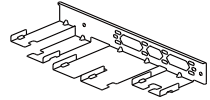
Camera



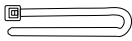
Power Adapter &
Power Cord



Remote Control



Cable Fixing Plate



Cable Tie (x6)

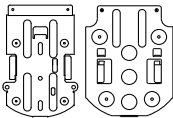


M2 x 4mm
Screw (x2)

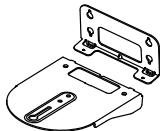


Quick Start Guide

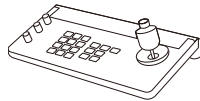
Optional Accessories



Ceiling Mount
Bracket (x2)

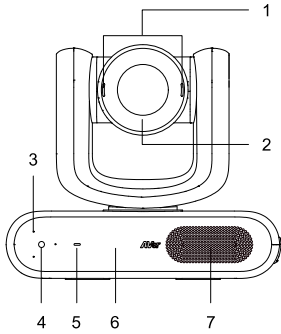


Wall Mount
Bracket



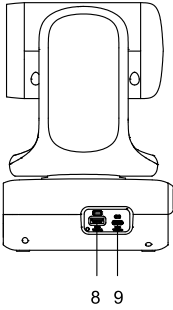
Camera Controller
(CL01)

Parts Info



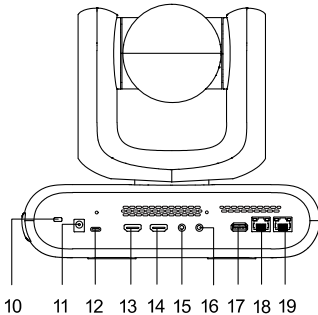
Front View

1. Privacy Indicator
2. Infrared Night Vision LED*
3. Microphone Array**
4. Voice Command Indicator
5. Status Indicator
6. IR Remote Control Sensor
7. Speaker



Side View

8. USB 3.0 Type-A Port
9. USB 3.0 Type-C Port



Back View

10. Kensington Lock
11. DC 12V Power Jack
12. USB 3.0 Type-C Port
13. HDMI[®] Out
14. HDMI In
15. Audio In
16. Line Out
17. Wi-Fi Dongle
18. Ethernet Port
19. PoE++ Port

*To avoid infrared radiation hazards, keep a distance of over 1 meter between IR LED and human eyes when using Night Mode.

**Your device supports voice control. For voice command list, please refer to the Appendix [<Voice Command List>](#).

LED Indicators

AVer Mode

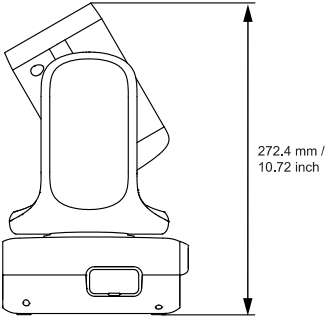
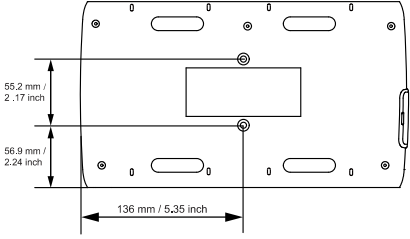
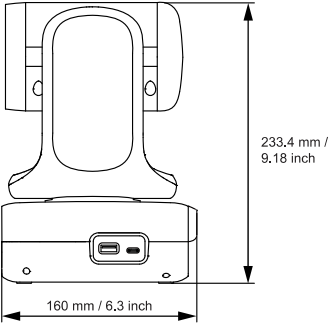
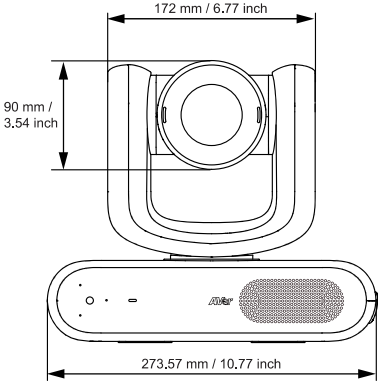
Camera Status Indicator	Privacy Indicator	Description
Off	Off	Power off
Solid orange		Privacy mode
Solid orange	Solid purple (Monitoring)	Mic muted
Flashing orange		Initializing
Solid blue		Standby
Flashing blue		Tracking ON
Flashing purple		Firmware updating
Flashing red		Insufficient PoE++ power wattage supply

Voice Command Indicator	Description
Slow flashing lake blue	Waiting to receive voice control
Quick flashing lake blue	Performing voice control

Zoom Mode

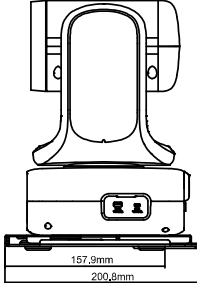
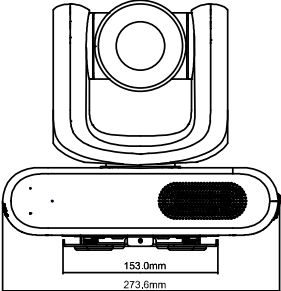
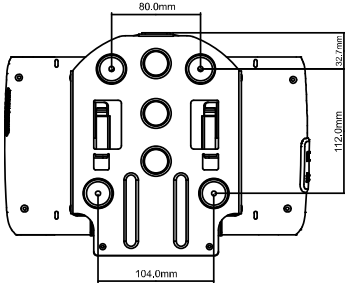
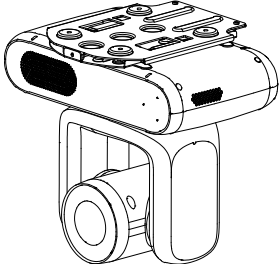
Camera Status Indicator	Description
Solid purple	During Zoom meeting
Solid lake blue	Mic muted during Zoom meeting
Solid orange	Camera off during Zoom meeting
Solid white	Mic muted + camera off during Zoom meeting
Solid blue	Not in Zoom meeting
Flashing blue	Incoming Zoom call

Dimensions



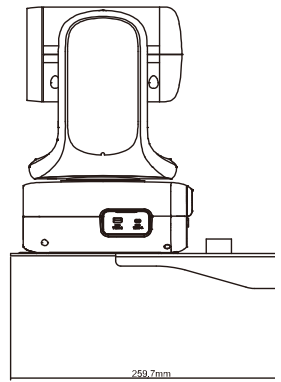
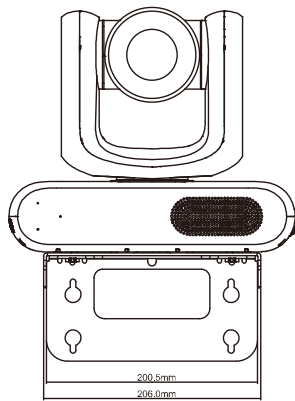
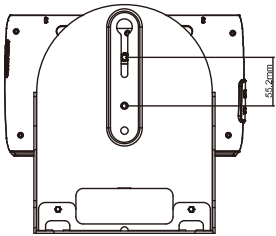
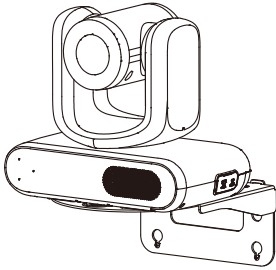
Ceiling Mount

Screws: 1/4"-20 6.5 mm (x1), M3 x 6 mm (x3)

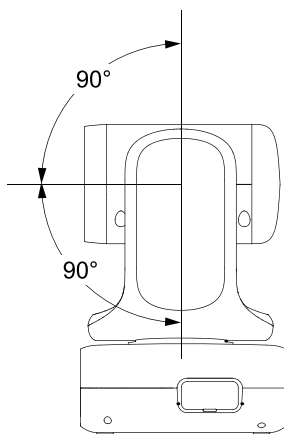
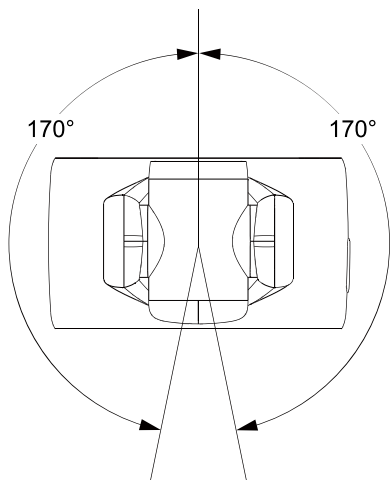


Wall Mount

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



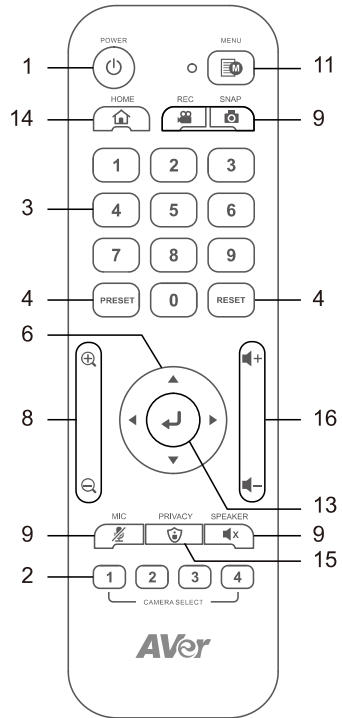
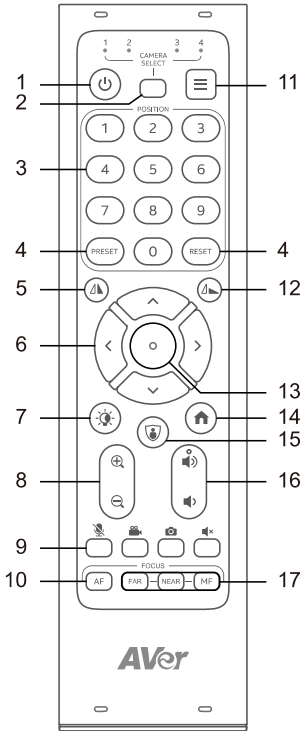
Pan and Tilt Angle



Remote Control

Your device may come with one of the following remote controls.









For hot keys, please refer to the user manual.



Name	Function
1. Power	Enter Standby Mode or wake up.
2. Camera Select	No selection is required to operate the camera by default. <ul style="list-style-type: none"> 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	N/A
6. Pan-Tilt Control	Pan and tilt direction control.
7. IR	N/A

8. Zoom In/Out	Zoom in or out.
9. Function Buttons	Mic: Mute or unmute the microphone. Rec: Record a video. Snap: Take a snapshot. Speaker: Mute or unmute the speaker.
10. Auto Focus	N/A
11. Menu	Press and hold for 3 seconds to open the OSD menu. <ul style="list-style-type: none"> To change to a short press, go to System > Trigger OSD in the OSD menu.
12. Flip	N/A
13. Enter	Confirm a selection in the OSD menu. Press to auto focus once.
14. Home	Rest the pan-tilt position to center. In Android™ System Settings page (OSD Menu), press to return to the previous page.
15. Privacy	Enter or exit Privacy mode (The camera points downward, stops video, and mutes the microphone.).
16. Volume +/-	Volume up or down.
17. Far / Near / Manual Focus	N/A

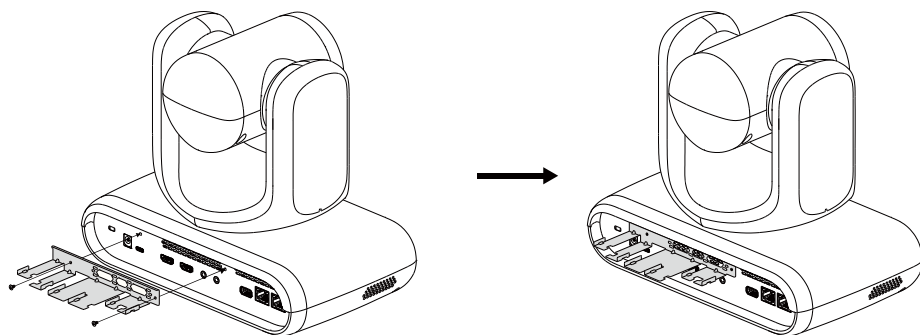
Shortcuts

Press	To
Menu  for 3 seconds	Open the OSD menu. You may toggle this shortcut in the web interface (System > Trigger OSD): press and hold to open OSD menu or press once to open.
Menu 	Close the OSD menu.
Home 	Close the OSD menu and return the camera to the Home position.
Home  and hold	Return to the camera live view from Android™ System Setting page.
Menu  for 1 second and release, then Zoom 	Switch between Day mode and Night mode.
Menu  for 1 second and release, then Zoom 	Switch between Day mode and Auto mode.
5 five times (55555)	Turn on 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.

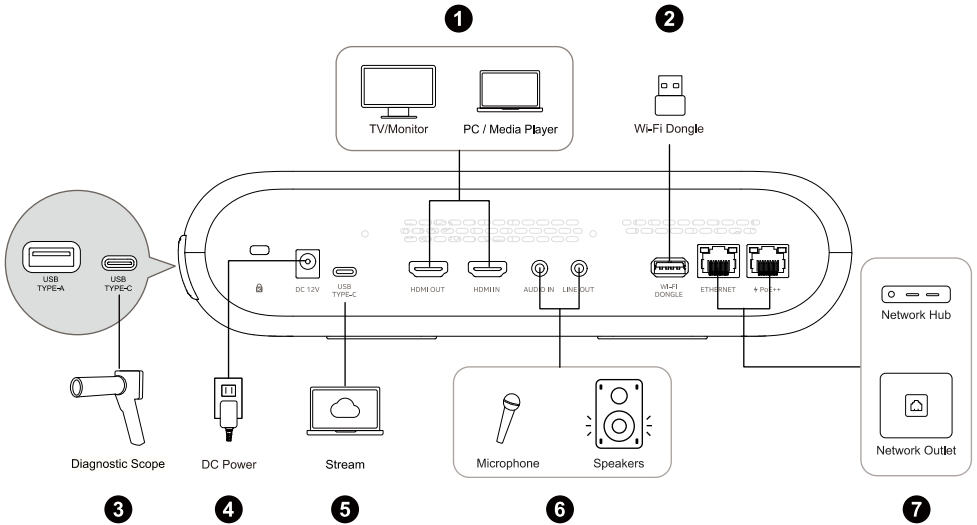
Installation

Cable Fixing Plate

1. Secure the cable fixing plate using the included M2 x 4mm screws.
2. Plug in the cables.
3. Secure the cables and the cable fixing plate with cable ties.



Device Connection





- 1. TV/Monitor & PC / Media Player:** Connect the camera to a TV/Monitor or PC / Media Player via HDMI Out/In port for HDMI video output.
- 2. Wi-Fi Dongle:** Connect the Wi-Fi Dongle to the camera to receive Wi-Fi signal.
- 3. Diagnostic Scope:** Connect the diagnostic scope to the camera's USB Type-C port on the left side for a closer examine on the patients' body.
- 4. DC Power:** Connect the camera to the power outlet with the supplied power adapter and cable to power on.
- 5. Stream:** Connect the computer to the camera's USB Type-C port on the rear side of the camera for online video streaming.
- 6. Microphone & Speakers:** Connect a microphone or a speaker to the camera's 3.5 mm Audio In/Line Out port for audio input and output.
- 7. Network Hub / Network Outlet:** Connect your camera to a network hub or a network outlet using a Ethernet cable for Internet connection.

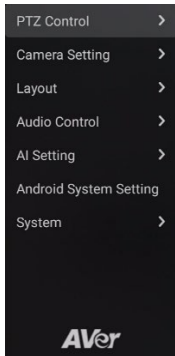
Set up your Camera

Configure camera settings through the OSD menu or the web interface.


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 directional buttons **▲▼◀▶** to select and press **Enter**  to confirm settings.



IP Address Setup

1. Press and hold **Menu**  for 3 seconds on the remote control to open the OSD menu. Go to **Android™ System Setting > Network & internet > Ethernet > Ethernet IP mode**.
2. Select **Static IP** or **DHCP**. The camera default is DHCP.
3. You may also check the camera IP in **System > Information** of the OSD menu.

OSD Menu Tree

1 st level	2 nd level	3 rd level	4 th level
PTZ Control	PTZ Control Panel		
Camera Setting	Exposure Mode	Full Auto	Full Auto / Iris Priority / Shutter Priority / Manual / Bright
		Exposure Value	-4-+4
		Gain Limit Level	24dB-42dB
		Slow Shutter	On / Off
		WDR	On / Off
		BLC	On / Off
		Iris Level	Close-F1.6
		Shutter Speed	1/1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/90, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/725, 1/1K, 1/1.5K, 1/2K, 1/3K, 1/4K, 1/6K, 1/10K,
		Gain Level	0 / 3 / 6 / 9 / 12 / 15 / 18 / 21 / 24 / 27 / 30 / 33 / 36 / 39 / 42dB
		Bright Value	0, 5-31
	White Balance	Auto	On / Off
		ATW	
		Indoor	
		Outdoor	
		One Push	
		Manual	R Gain: 0-255 B Gain: 0-255
	Pan Tilt Zoom	Preset Speed	5 / 25 / 50 / 100 / 150 / 200
		Pan Speed	1-24
		Tilt Speed	1-24
		Zoom Speed	Low / High

		P/T Spd. Relative Z Ratio	On / Off
		Pan L/R Dir.Switch	On / Off
		Focus Mode	Auto / Manual
	Noise Filter	Off / Low / Middle / High	
	Saturation	0-10	
	Contrast	0-4	
	Sharpness	0-3	
	Mirror	On / Off	
Advanced Setting	Flip	On / Off	
	IR Cut Filter Mode	Day / Night / Auto	
	IR Cut Sensitivity	Low / Middle / High	
Layout	AI Mosaic	On / Off	
	Single	HDMI in / UVC in / PTZ Camera	
	PIP	Mode 1 / 2 / 3	
Audio Control	POP	On / Off	
	Speaker Volume	Up / Down / Mute	
AI Setting	Eyes Tracking	Eyes Tracking	On / Off
		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	On / Off
	Detection Type	All Type / Fall / Egress	
Android™ System Setting			
System	Status OSD	On / Off	
	Camera Selector	1 / 2 / 3 / 4 / All Channel / Disable Remote	
	Information	View camera information	
	Factory Default		
	System Reboot		
	Camera Resume		

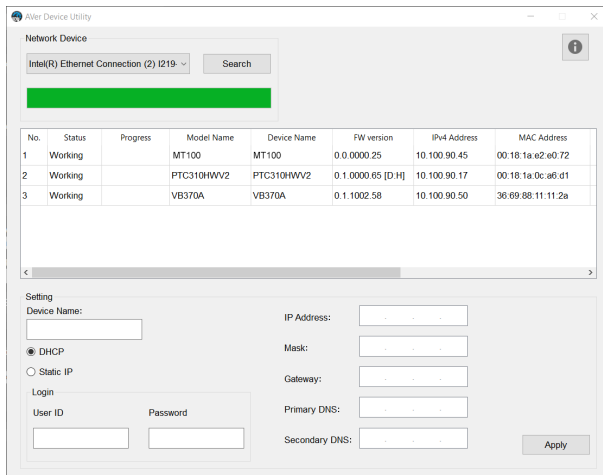
Access the Web Interface

To access the MD720UIS web interface, use any of the following software to find its IP address:

- AVer Device Utility
- AVer ViewCare

Note: The camera's default network setting is Static IP (192.168.1.168).

AVer Device Utility



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).

Notes:

- Make sure your MD720UIS is connected to the internet.
 - The IPCam Utility and your camera must be on the same LAN.
3. Double-click your MD720UIS's IP address in the **Ipv4 Address** column to open the web interface in your browser.

When logging in for the first time:

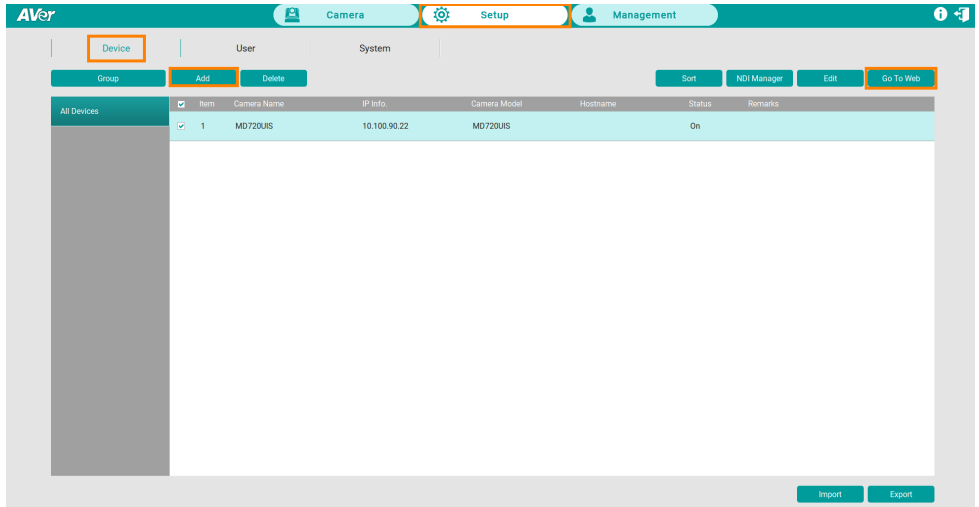
Change the default username and password before logging in.

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

To change the network to DHCP or Static IP:

1. Select the checkbox of your camera.
2. Enter the default or current 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



1. Download ViewCare from AVer Download Center (<https://www.aver.com/download-center>) and launch the software.
2. Log in with the ViewCare default username and password **admin/admin**.
3. Go to **Setup > Device > Add**, then click **Auto Search** to see available devices on the same local area network (LAN).
4. Select your camera, enter the current camera username and password, then click **Save** to add the camera to the device list.

Note: For first-time use, enter the default camera username and password **admin/admin**.


5. Select the checkbox of your camera, then click **Go to Web** button to open the web interface in your browser.

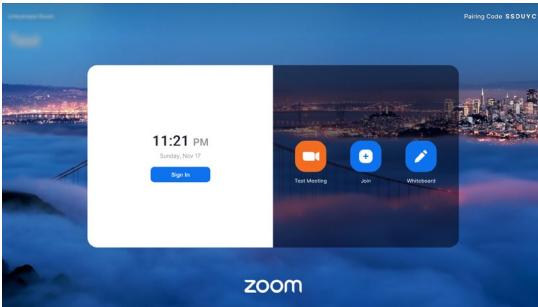
Zoom Mode

MD720UIS supports the Zoom Rooms conferencing system and allows you to connect to a touchscreen for controlling Zoom meetings. Follow the steps below to switch to Zoom mode.

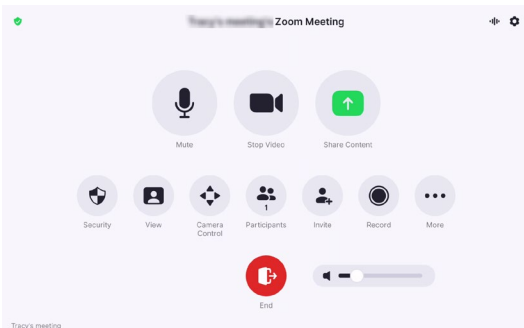
Note:

- If you haven't signed up a Zoom account, please visit [Zoom official website](#) first.
- Make sure your touchscreen device has installed Zoom Rooms for Touch.

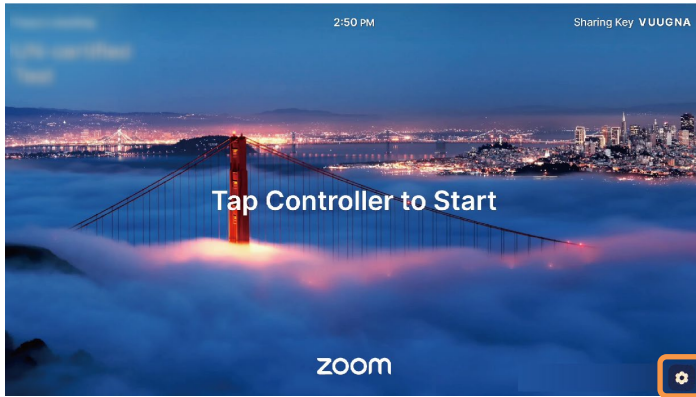
1. Press and hold the **Menu**  button on the remote control for 3 seconds to open the OSD menu.
2. Go to **Android™ System Setting > About MD720UIS > Mode**, then select the **Operation Mode Switch** to switch to **Zoom** mode. Wait for the MD720UIS to reboot.
3. Connect your MD720UIS to your touchscreen using a USB Type-A to Type-B cable (not provided).
4. Once successfully paired, tap **Sign In** on the touchscreen to log into your Zoom account, then select and enter a meeting room. You may start a new meeting, join a meeting, or start a whiteboard session.




5. After starting or joining a meeting, you can control your MD720UIS via the touchscreen, such as muting the microphone or turning off the camera.



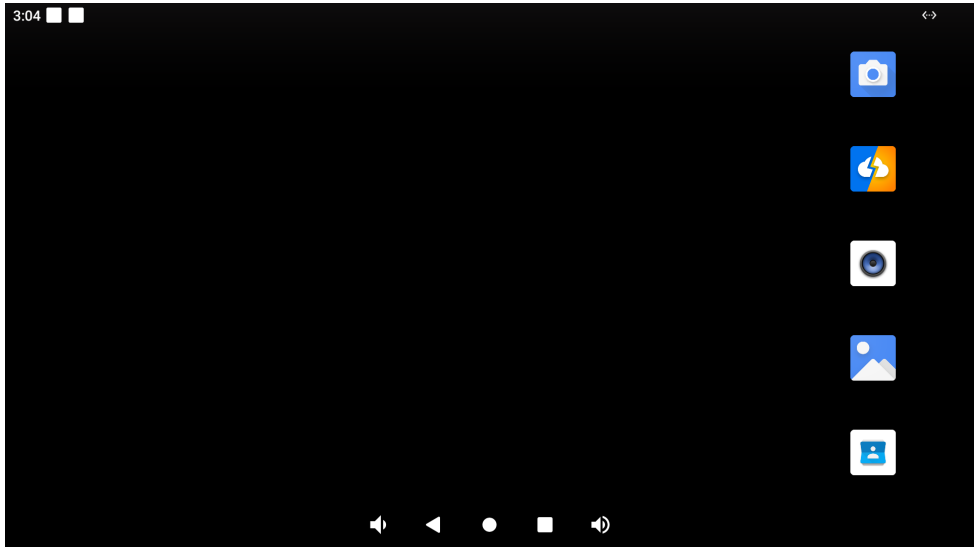
Switch back to AVer Mode




1. Tap the **Setting** icon  on the lower right corner on the touchscreen home page to enter Setting page.
2. Tap General > System Settings to enter Android™ System Setting on MD720UIS OSD Menu.
3. Go to About MD720UIS > Mode, then select the **Operation Mode Switch** to switch to **AVer** mode. Wait for the MD720UIS to reboot.

Android™ Mode

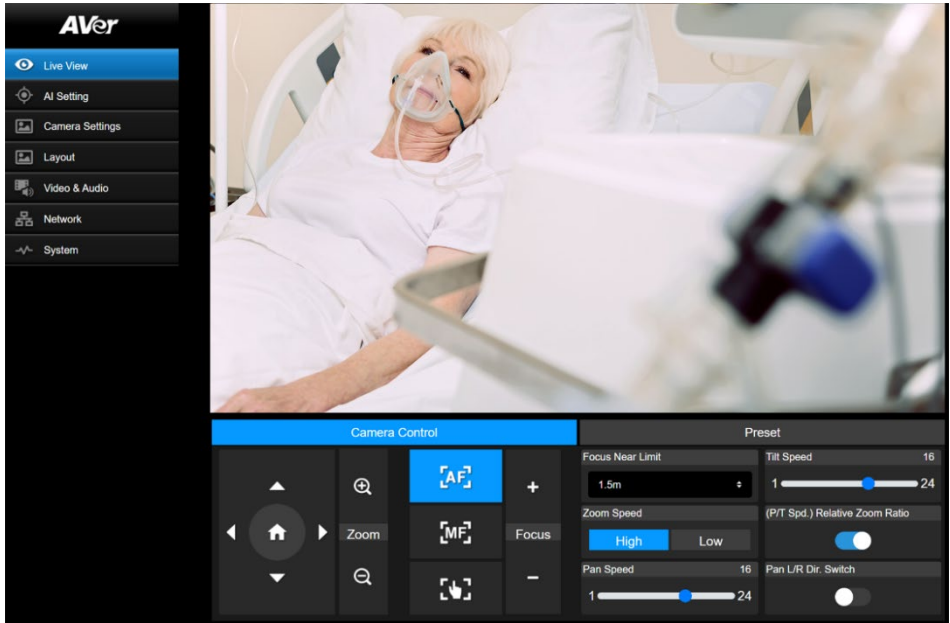
MD720UIS supports the Android™ Operating System and allows you to run third-party applications. You may also visit AVer official website for audio and video APIs to install self-developed applications on MD720UIS. Follow the steps below to switch to Android™ mode.



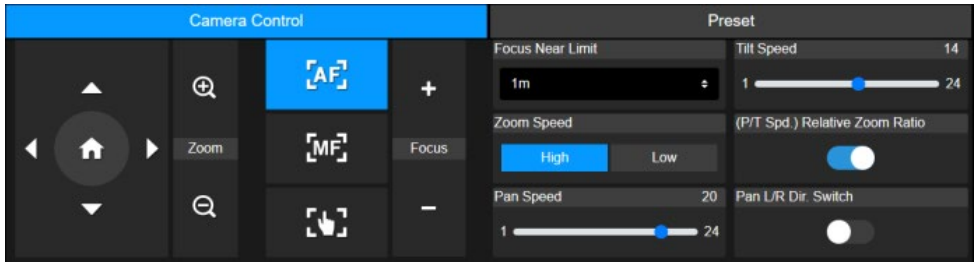
1. Press and hold the **Menu**  button on the remote control for 3 seconds to open the OSD menu.
2. Go to **Android™ System Setting > About MD720UIS > Mode**, then select the **Operation Mode Switch** to switch to **Android™** mode. Wait for the MD720UIS to reboot.

Web Interface




Live View



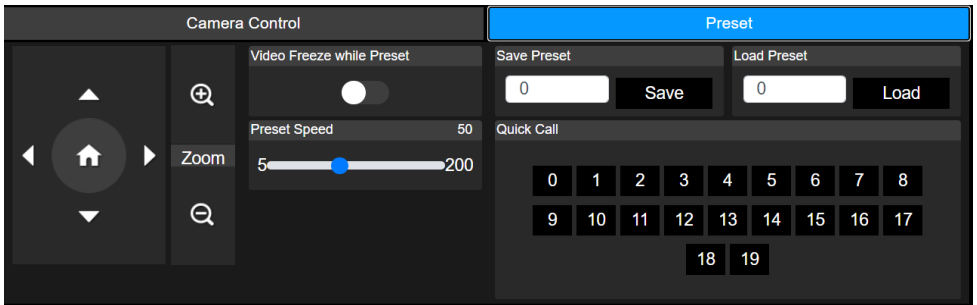
Camera Control



Item	Description
Pan Tilt Zoom Controls	<ul style="list-style-type: none">Position the camera with the directional buttons.Click to move the camera to the Home position.Click / to zoom in and out.

Focus + / -	<ul style="list-style-type: none"> : Automatic focus. : Manual focus. Adjust the focus with + - buttons. : One-Push Focus: Click to automatically focus once.
Focus Near Limit	Set up the nearest focus limit.
Zoom / Pan / Tilt Speed	Select a speed option or drag the slider to adjust the zoom, pan and tilt speed.
(P/T Spd.) Relative Z Ratio	Turn on to automatically adjust pan and tilt speeds based on the zoom ratio. You can also turn it on in the OSD menu: Camera Setting > Pan Tilt Zoom > P/T Spd. Relative Z Ratio.
Pan L/R Dir. Switch	Turn on to invert panning direction.

Preset



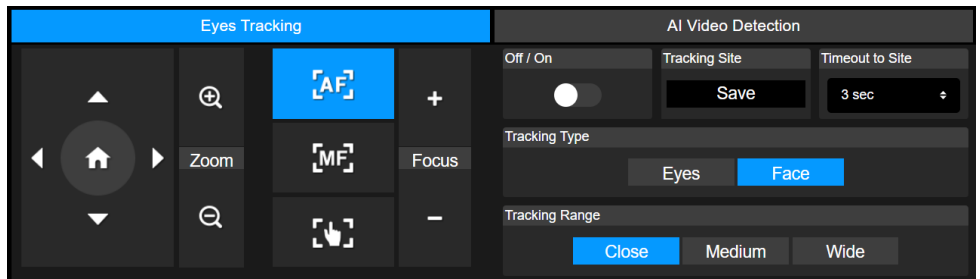
Item	Description
Save Preset	<ol style="list-style-type: none"> Position the camera using pan, tilt and zoom controls. Enter a preset number (0-255) in the textbox and click Save.
Load Preset	<ol style="list-style-type: none"> Enter a preset number (0-255) in the textbox and click Load. Click a preset number (0-19) in the Quick Call section.
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 speed when moving to presets.

AI Setting



Eyes Tracking

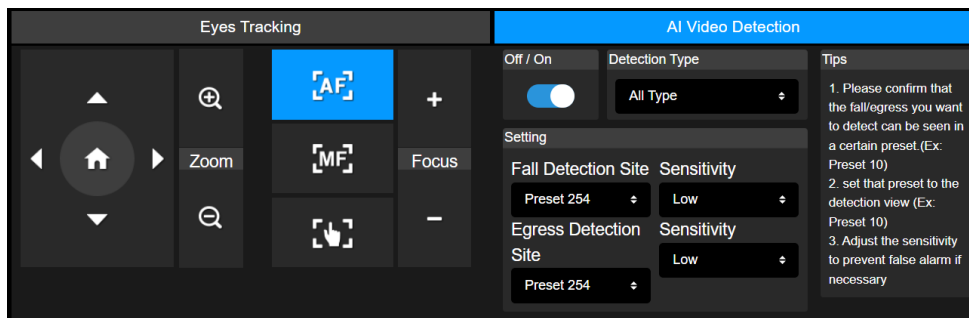
Manually adjusting pan, tilt and zoom controls during Facial Tracking will turn off the function.



1. Please set up the Tracking Site with camera 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 AI video detection:

1. Make sure you have defined the required preset for AI video detection.
2. Set that preset to the detection view (Ex: Preset 10) and adjust the sensitivity to prevent false alarm if necessary.
3. Select a detection type from the drop-down list. (Fall, Egress or all.)
4. Toggle on AI video detection.

DISCLAIMER

Learn about the accuracy and limitations of the fall detection

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

Limited Accuracy

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

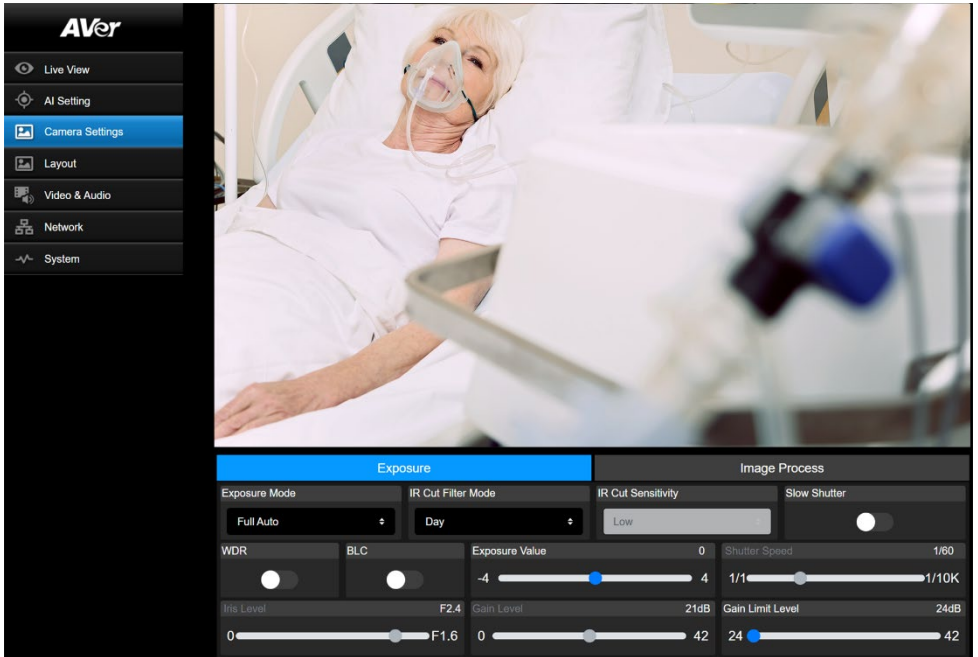
Dose not Replace Caregivers

The fall 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

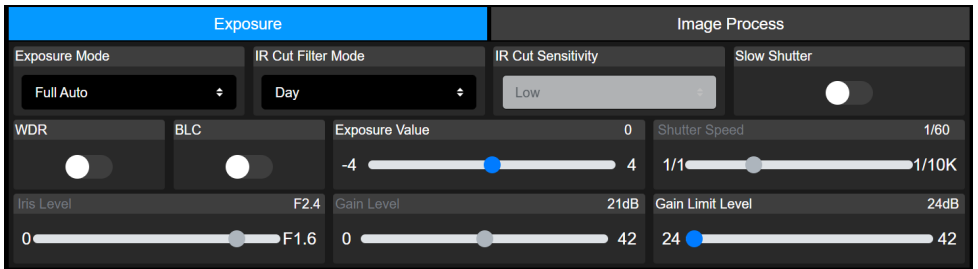
safety and which relate to clinical diagnosis, patient care or treatment must remain in place. If fall detection fails to respond as described, take appropriate action immediately.

The fall 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



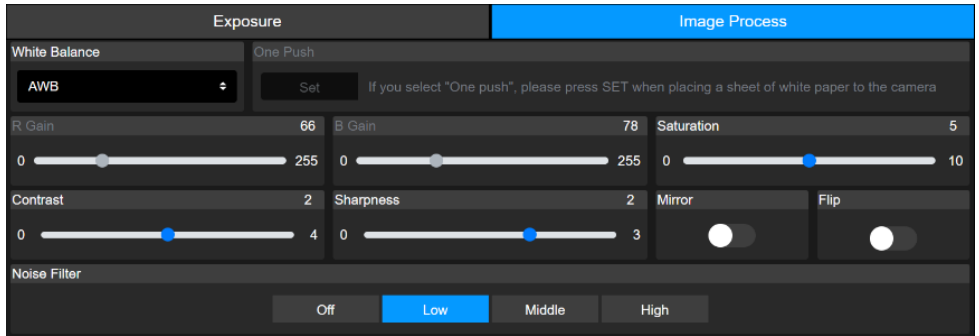
Exposure



Item	Description
Exposure Mode	Select an exposure mode.
IR Cut Filter Mode	Select Day or Night mode to switch infrared night vision on or off. Select Auto mode and then adjust IR Cut Sensitivity .
IR Cut Sensitivity	Select Auto for IR Cut Filter Mode to adjust IR Cut sensitivity.
Slow Shutter	Turn Slow Shutter on or off.
WDR	Turn WDR or BLC on or off.

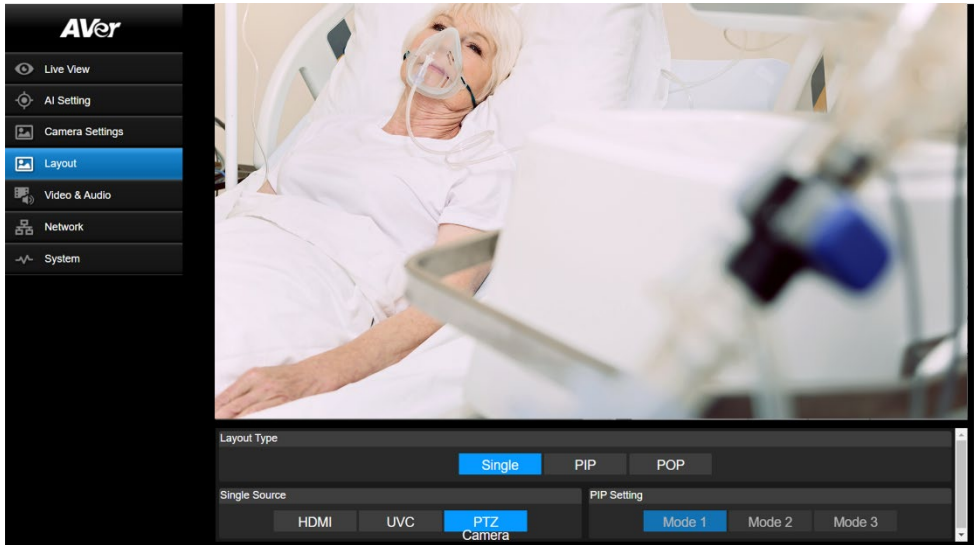
BLC	
Exposure Value	Adjust exposure, shutter, iris and gain.
Shutter Speed	
Iris Level	
Gain Level	
Gain Limit Level	

Image Process



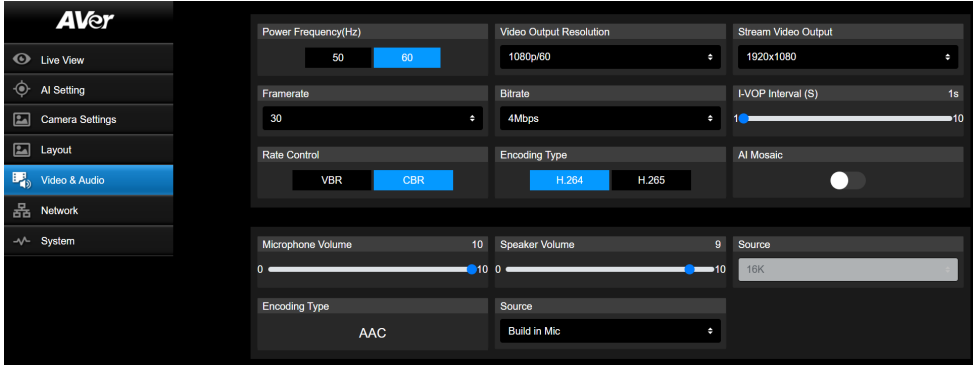
Item	Description
White Balance	<ul style="list-style-type: none"> Select Day in IR Cut Filter Mode, and then select a white balance mode. When Manual is selected, you can also adjust the R Gain and B Gain. When One Push is selected, place a piece of white paper in front of the camera lens and click Set to calibrate white balance.
Saturation	Adjust saturation, contrast and sharpness.
Contrast	
Sharpness	
Mirror	Select to horizontal or vertical flip camera view.
Flip	
Noise Filter	Select a noise filtering level.

Layout



Item	Description
Layout Type	Select from Single , PIP (Picture-in-Picture), or POP (Picture-on-Picture) for multiple video sources display.
Single Source	Select a video input source from HDMI, UVC or the MD720UIS camera.
PIP Setting	When the system detects two video sources, you may switch the PIP layout.

Video & Audio



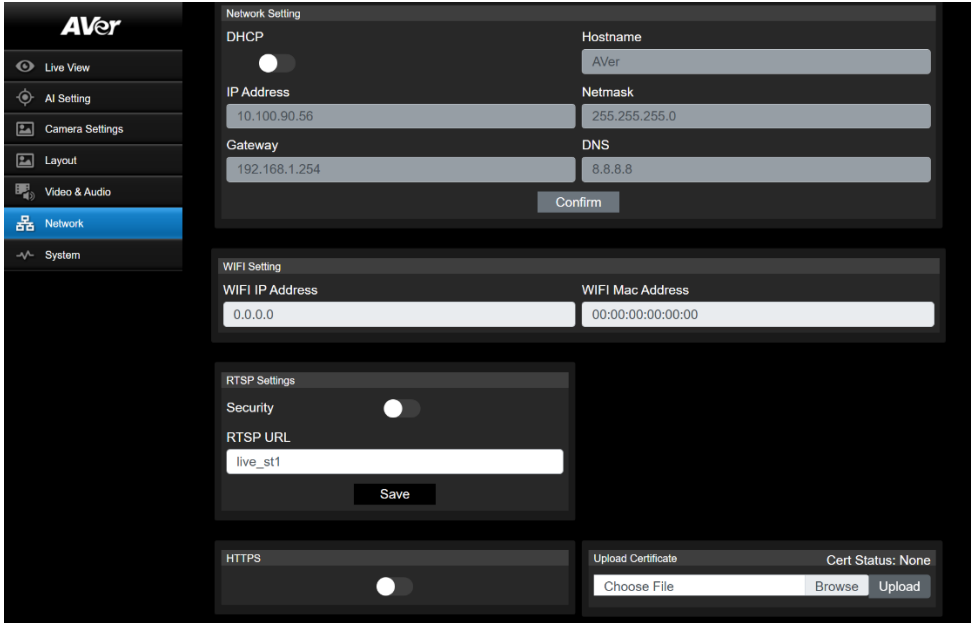
Video Setting

Item	Description
Power Frequency (Hz)	Select 50Hz or 60Hz based on your country or region.
Video Out Resolution	Select a video output. resolution RTSP: Max. 4K/30fps HDMI: Max. 4K 30Hz
Stream Video Output	Select a streaming output resolution for the live view.
Framerate	Select a framerate.
Bitrate	Select a bitrate.
I-VOP Interval (S)	<ul style="list-style-type: none"> 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 body on an RTSP stream for privacy.

Audio Setting

Item	Description
Microphone Volume	Drag the slider to adjust the microphone volume.
Speaker Volume	Drag the slider to adjust the speaker volume.
Sampling Rate	16K
Encoding Type	AAC
Source	Select an audio input source for your device. <ul style="list-style-type: none"> Built-in Mic Audio in Mix

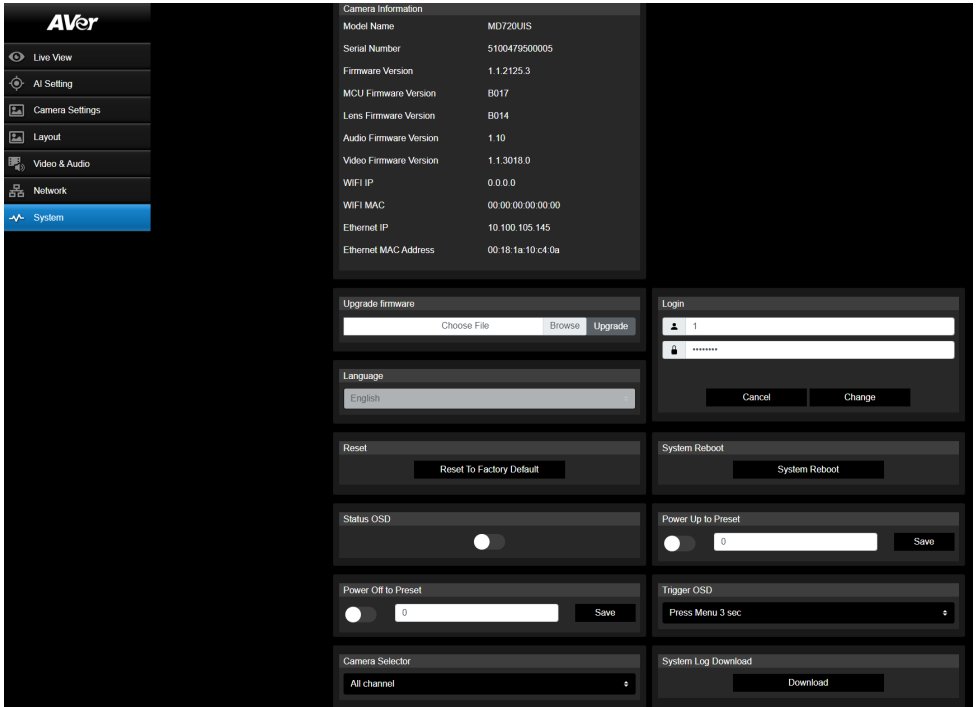
Network




Item	Description
Network Setting	The default network is DHCP.
WIFI Setting	Display WIFI IP Address and Mac Address when connecting a WIFI dongle.
RTSP Settings	<p>Protect your video stream on media players such as VLC, PotPlayer and QuickTime by ensuring that only authorized users can access it.</p> <ul style="list-style-type: none"> When Security is turned off: <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> 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 Username/password: camera's username/password (web

	interface login)
HTTPS & Upload Certificate	<p>Enable HTTPS to establish a secure connection between your browser and your camera. To enable HTTPS access on your camera:</p> <ol style="list-style-type: none">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 Choose File to select the certificate file, and then click Upload.4. Turn on HTTPS.

System

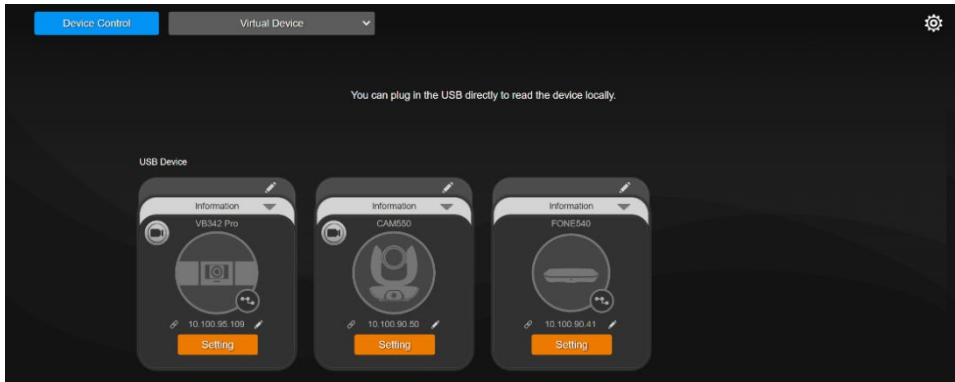


Item	Description
Camera Information	Display camera information.
Upgrade Firmware	<p>To upgrade the firmware:</p> <ol style="list-style-type: none"> 1. Download the latest firmware from the AVer Download Center (https://www.aver.com/download-center/). 2. On the Web interface, go to System > Upgrade firmware. 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. <p>[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.</p>
Login	The default username/password is admin/admin . To change the username/password, enter the new username/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 operation status on the HDMI output during functions such as saving, loading and canceling presets.
Power Up to Preset	Turn on to move the camera to the defined position after powering on. <ul style="list-style-type: none"> Click the toggle to turn on > enter a preset number > click Save. Make sure the preset number has been defined before enabling this function.
Power Off to Preset	Turn on to move the camera to the defined position before powering off. <ul style="list-style-type: none"> Click the toggle to turn on > enter a preset number > click Save. Make sure the preset number has been defined before enabling this function.
Trigger OSD	Configure the behavior of the remote control Menu  button to open the OSD Menu: press and hold for 3 seconds or press once.
Camera Selector	<ul style="list-style-type: none"> Assign a number to your camera to correspond with the Camera Select buttons on the remote control. When All Channel is selected, you can control your camera using any Camera Select buttons on the remote control. Select Disable Remote to disconnect the remote control from your camera.
System Log Download	Click to download system log for troubleshooting.

Room Management

Configure Settings on Room Management



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

Specifications

Operation System	
Operating System	Android™ 12
Camera	
Image Sensor	1/2.8" CMOS
Effective Picture Elements	8 Megapixels
Output Resolutions	4K/30p, 1080p/60, 1080p/30, 1080p/25, 720p/60,
Minimum Illumination	0.5 lux (IRE50, F1.6, Max. AGC, 1/30)
S/N Ratio	≥ 50 dB
Gain	Auto, Manual
Shutter Speed	1/1 to 1/10,000 sec
Exposure Control	Auto, Manual, Priority AE (Shutter, IRIS), BLC, WDR
White Balance	Auto, Manual
Optical Zoom	20X
Viewing Angles	DFOV: 69.2° (Wide) to 4.1° (Tele) HFOV: 62.3° (Wide) to 3.6° (Tele) VFOV: 37.3° (Wide) to 2.1° (Tele)
Focal Length	f = 4.5 mm (Wide) to 90 mm (Tele)
Aperture (Iris)	F = 1.8 (Wide) to 4.7 (Tele)
Minimum Working Distance	0.1 m (Wide) , 1.2 m (Tele)
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 Positions	256 (IP / USB)
Camera Control - Protocols	VISCA (IP), CGI (IP)
Image Processing	Mirror / Flip / Freeze / WDR / BLC
Power Frequencies	50 Hz, 60 Hz
AI Functions	
Modes	Face / Eyes Tracking, Fall / Bed Egress Detection
Privacy	
Protection Mode	Local Privacy Mode, Mosaic Function
General	
Power Requirement	AC100 – 240V to DC 12V/5A and above
Power Consumption	40W
PoE	PoE++ (IEEE 802.3bt)
Dimension (W x H x D)	273.57(W) x 233.4(H) x 169(D) mm


Net Weight	3kg
Application	Indoor
Privacy indicator light	Yes
Security	Kensington Slot
Remote Control	Infrared
Operating Conditions	Temperature : 0 °C to +40 °C Humidity : 20% to 80%
Storage Conditions	Temperature : -30 °C to +60 °C Humidity : 20% to 95%
Audio	
Embedded Speaker	Yes
Microphone	Yes, Microphone Array
AI Noise Reduction	Yes
Interface	
Video Outputs	HDMI, IP, USB-C (Rear)
Audio Outputs	HDMI, IP, USB-C, Line-out (Rear) *May vary depending on actual application scenarios
IP Streaming	
Resolution	4K 30fps
Network Video Compress Formats	H.264, H.265
Maximum Frame Rate	4K 30fps
Network Interface	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, VISCA over IP
USB	
Connector	USB 3.0
Video Format	MJPEG/YUY2
USB Video Class (UVC)	UVC 1.1
USB Audio Class (UAC)	UAC 1.0
Web UI	
Live Video Preview	Yes
Camera PTZ Control	Pan, Tilt, Zoom, Focus, Preset Control
Camera / Image	Exposure, White Balance, Image Process
Network Configuration	DHCP, IP Address, Gateway, Subnet Mask, DNS
Software Tools	
IP Search and Configuration Tool	AVer ViewCare , AVer Room Management

Warranty	
Camera	3 Years
Accessories	1 Year

Specifications are subject to change without prior notice.

Troubleshooting

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

1. Make sure the HDMI cable is connected to your camera and display.
2. On the remote control, press and hold **Menu**  for 3 seconds to open the OSD menu.
3. After opening the OSD menu, the LED indicator will appear solid purple.

Appendix

Voice Command List

To	Say
Activate voice control.	"Hi, AVer"
Switch image input source to HDMI.	"Watch TV" "Go to TV"
Go to home screen	"Go to home screen" "Go to homepage"
Enter Privacy Mode	"Go Privacy Mode" "Go to Privacy Mode" "Privacy Mode"
Back to Normal Mode	"Go Normal Mode" "Go to Normal Mode" "Normal Mode"
Return to camera home position	"Center the camera" "Center camera"
Calibrate the camera	"Calibrate the camera" "Calibrate camera"