MT100 Matrix Box

— **User Manual** —

Federal Communication Commission Interference 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.

The Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

This 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.

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

VCCI-A

この装置は、クラス A 機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

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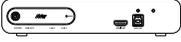(신문로 1 가,
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Tel: +82 (0) 2 722 8535

Contents

Overview

Package Contents

| Matrix Box | Power Adapter & Power Cord | USB 3.0 Cable 1.5 m / 4.92 ft. | Quick Start Guide |
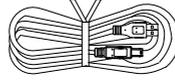
Optional Accessories

 x5
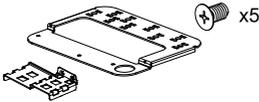
Cable Fixing Plate Installation Kit
Cable Fixing Plates (x2)
3.0 x 5 mm Flat Head Screws (x5)

Cable Ties (x6)

 x4 x4
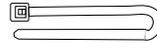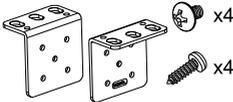
Rack Mount Installation Kit
Mount Brackets (x2)
3.0 x 5 mm Truss Head Screws (x4)
M3 x 10 mm Screws (x4)

 x3 x2
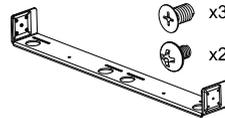
Server Rack Installation Kit*
Server Rack (x1)
3.0 x 5 mm Flat Head Screws (x3)
3.0 x 5 mm Truss Head Screws (x2)

* Installing the server rack requires the rack mount installation kit.
Please refer to the <Server Rack Installation> for details or contact your local dealer.

Parts Info
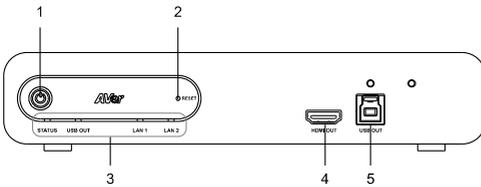
Front View

1. Power Button
2. Reset Button
3. Status LEDs
4. HDMI Output Port
5. USB 3.0 Type-B Output Port
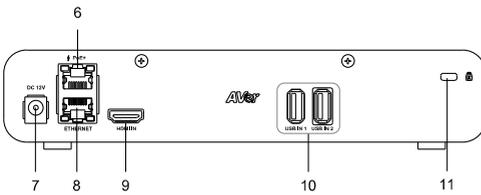
Back View

6. PoE+ Port IEEE 802.3AT
7. DC Power Jack
8. Ethernet Port
9. HDMI Input Port
10. USB 2.0 Input Port Type-A (x2)
11. Kensington Lock

Dimensions

210 mm

43 mm

150 mm
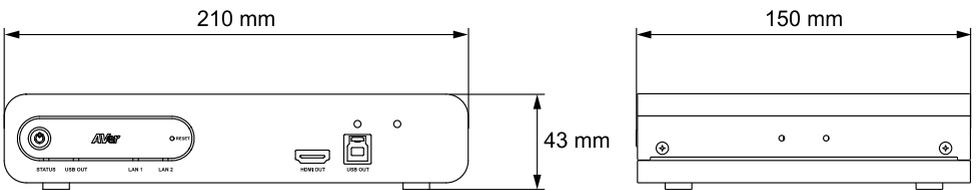
LED Indicators
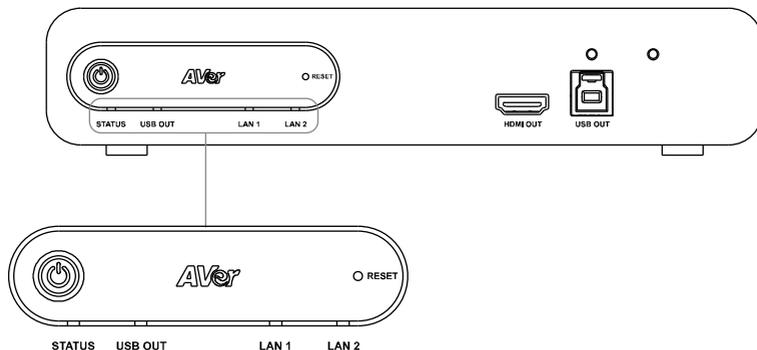
- **Status (Power / System)**

LED	Status
Orange (Solid)	Powered on but not operating.
Green (Solid)	Operating.
Green (Flashing)	Firmware updating.

- **USB Out**

LED	Status
Green (Solid)	Connected and ready for USB streaming.
Green (Flashing)	Streaming in USB.

- **LAN 1 / LAN 2**

LED	Status
Green (Solid)	Ethernet connected.

Installation

Cable Fixing Plate Installation (Optional Accessories)

1. Secure the cable fixing plates to the device with 5 flat hat 3.0 x 5 mm screws in the package.
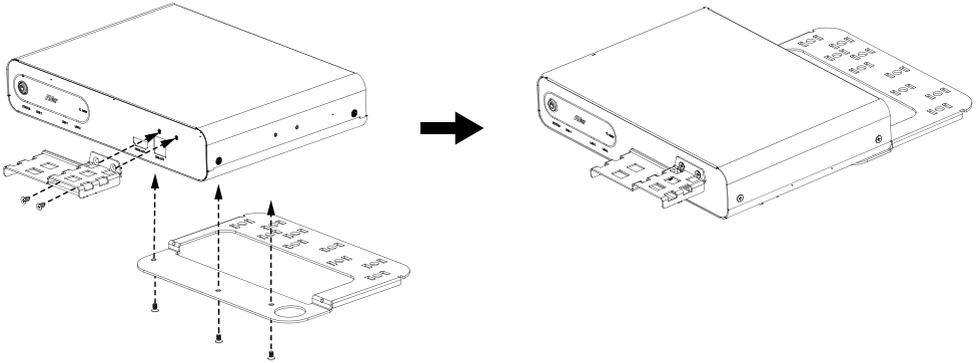
2. Plug in cables.
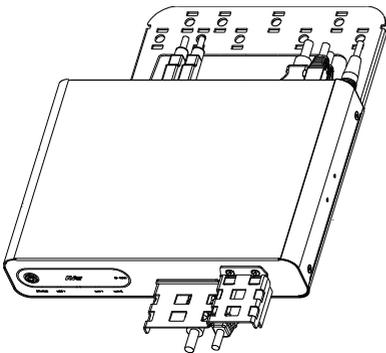
3. Use 6 cable ties in the package to secure the cables and cable fixing plates.
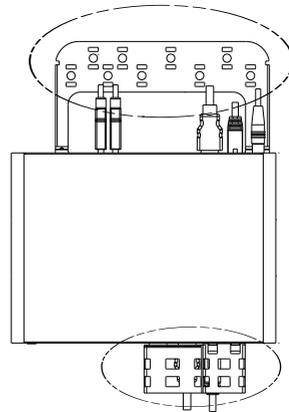
Desk Mount Installation (Optional Accessories)

1. Secure the mount brackets to the device.
   Screw: 4 truss head screws, 3.0 x 5 mm
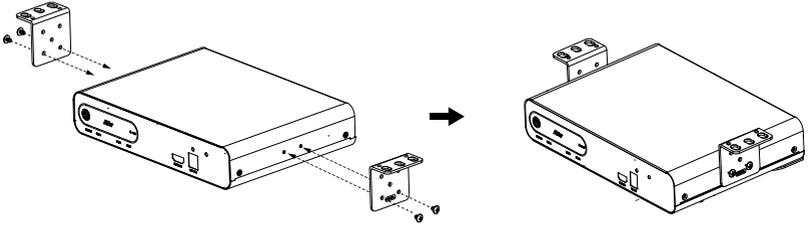
2. Install the mount brackets and the device under the desk.
   Screw: 4 screws, M3 x 10 mm
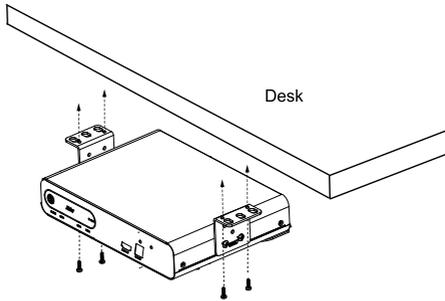
Desk

Server Rack Mount Installation (Optional Accessories)

The rack mount installation kit is also required.

1. Secure the server rack mount bracket to the device from the bottom using 3 flat head screws.

2. Secure the desk mount brackets to both sides of the server rack mount bracket using 6 truss head screws (2 from the server rack installation kit, and 4 from the rack mount installation kit).
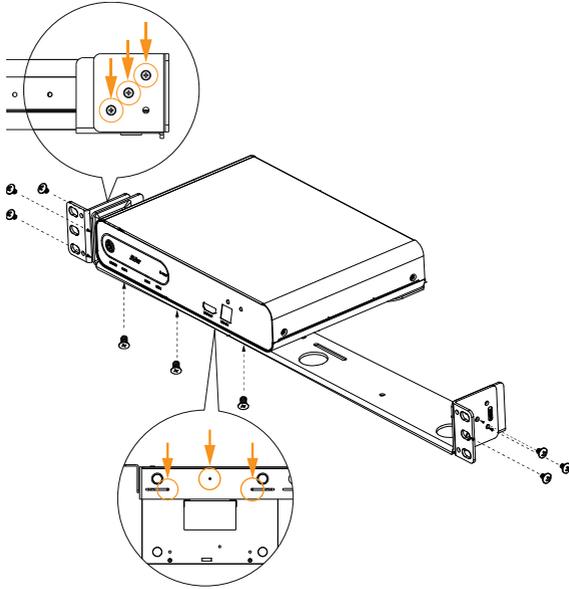
Connections

- **Front Panel**

HDMI Screen

HDMI Output

USB Output

Laptop (BYOD)   MTR / Zoom Rooms Device

or

- **Back Panel**

Network

PoE+ / Ethernet

HDMI Input

USB Input
(USB IN 2 supports UAC and UVC)

Power Outlet   Camera   Camera   Keyboard   Audio Devices

or   or
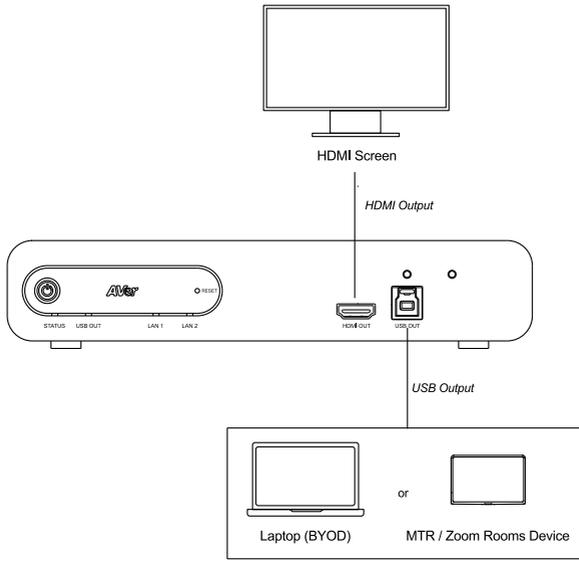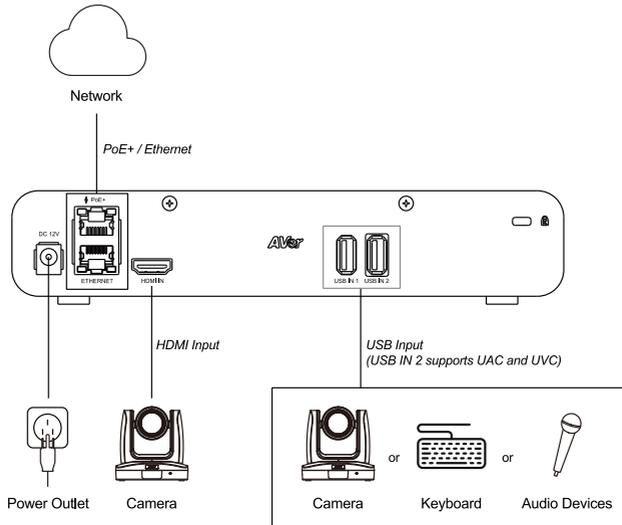
Get Started

Power Your Device

The device automatically powers on when connected to power. No need to press the **power** button ⏻. Press and hold for 5 seconds to enter Standby Mode. Press once to wake up.

Reset Your Device

Insert a paper clip into the reset hole, push in and hold for 5 seconds to reset to the device to factory default settings.
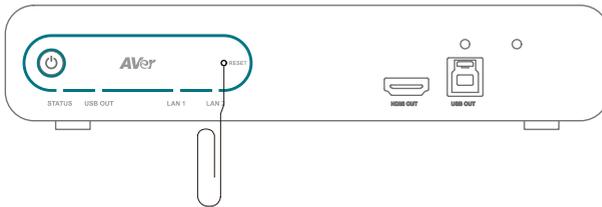
Access the Web Interface

To access the web interface of the device, you can use the AVer Device Utility software to find its IP address.

> **Note:**
> - The default network setting is as follows:
>   PoE+ port: DHCP
>   Ethernet port: Static IP 192.168.168.168
> - The default username and password is **admin**/**admin**.

AVer Device Utility
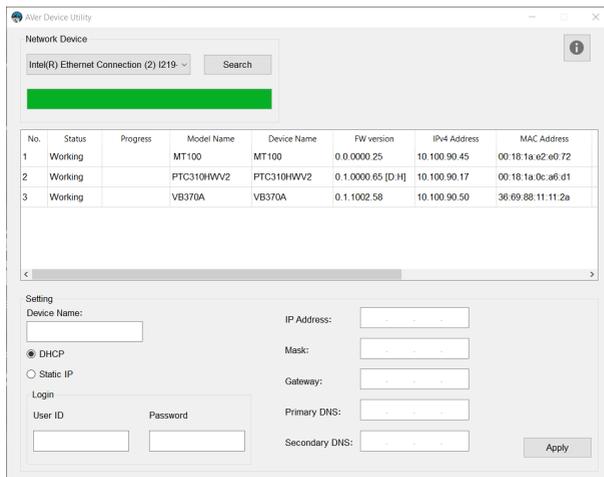
To access the web interface:

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).

   > **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.

To change your network to DHCP or static IP:

1.   Select the checkbox of your device.

2.   Enter the default or 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**.

Change the Username and Password

When you log in for the first time, you'll be prompted to change the username and password. The username and password cannot be the same.

*   Username: Use 1-32 characters.

*   Password: Use 8-32 characters and a combination of uppercase letters, lowercase letters, and, numbers. Symbols (!$%'()*+,-./<=>?@[\]^_{}~) are optional.

Compare Modes

The MT100 offers two built-in modes—**Live Mode**, and **Manual Mode**—to help you present video feeds in a single, composited stream.
- **Live Mode** provides live camera views with PTZ control and presets, but doesn't save settings.
- **Manual Mode** supports camera presets and human tracking, with settings saved to profiles.

	Live Mode	Manual Mode
Live view camera count	4	4
Profiles	–	36
Presets	–	256

Understand Human Tracking

Human Tracking includes Presenter, Zone, Segment (supported models), and Hybrid Modes.

To enable human tracking with Manual Mode, make sure you have configured required tracking modes on the camera web interface. Please refer to <Supported AVer Devices> for supported AVer devices and your camera's user manual for tracking mode settings.

Example: Manual Mode with Presenter Mode

Camera moves to preset   Presenter Mode is turned on

Supported AVer Devices

Note: When using non-AVer cameras, only Live Mode and Manual Mode are available. Camera control is not supported. The device is optimized for AVer equipment. Performance with third-party cameras is not guaranteed.

Professional Tracking Cameras

- Single Lens

TR211	TR311HWV2	TR310
TR315	TR313V2	TR311
TR315N	TR323V2	TR311HN
TR335	TR323NV2	TR313
TR335N	TR333V2	TR331
TR615	PTC310HWV2	TR333
	PTC310UV2	PTC310
	PTC320UV2	PTC310N
	PTC320UNV2	PTC310U
	PTC330UV2	PTC330
		PTC330U

- Dual Lens

TR535	TR530+
TR535N	PTC115+
	PTC500+

Professional PTZ Cameras (no Human Tracking)

PTZ211	PTZ310
PTZ231	PTZ310N
PTZ310UV2	PTZ310W
PTZ310UNV2	PTZ330
PTZ330UV2	PTZ330N
PTZ330UNV2	PTZ330W

Video Conferencing Cameras

CAM520 Pro3	VC520 Pro3
CAM550	VC550
CAM570	

Distance Learning Camera

DL30

Set up Your Device

Add Devices
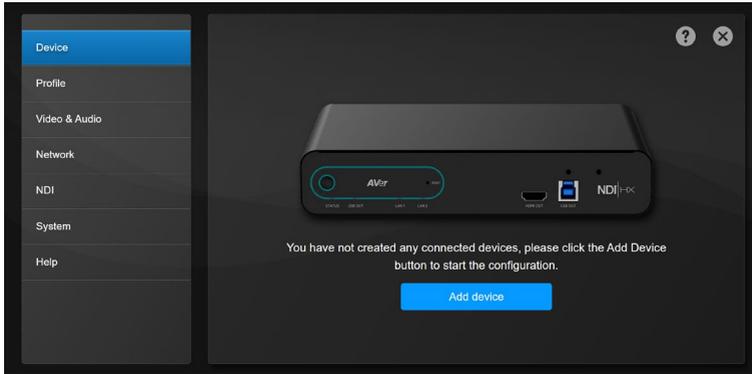
You can add up to 4 unique cameras via USB, HDMI and IP.
The Live Mode and Manual Mode each supports up to 4 video feeds in the video output layout.

To add cameras:

1. Click **Add Device**.
   Or click the **Settings** icon ⚙ on the top-right corner > **Device** > **Add device**.

2. Fill out the **Add New Device** dialog box.

Item	Description
Connect Camera	• IP: Connect to Ethernet or PoE+ port. • USB Port 1: Stream video. • USB Port 2: Stream audio and video. • HDMI: Select **Control via IP** for Human Tracking functions. • Non-AVer camera via IP: Select **Streaming via RTSP** and enter RTSP URL or **Streaming via NDI** and enter NDI group. **Note:** When using non-AVer cameras, only Live Mode and Manual Mode are available. Camera control is not supported.
IP Address	Click **Auto Search** or enter IP address.
Camera Account	Enter camera account and password.
Camera Password	

Streaming via RTSP Streaming via NDI	• Real-Time Streaming Protocol (RTSP): Make sure your camera and receiving device or application support RTSP. • Network Device Interface (NDI): Make sure your camera and receiving device or application support NDI. Enter a name for your NDI group (optional).
Device Name	Enter a name to be displayed on the device list.

3. Click **Save**.

Edit or Delete Devices
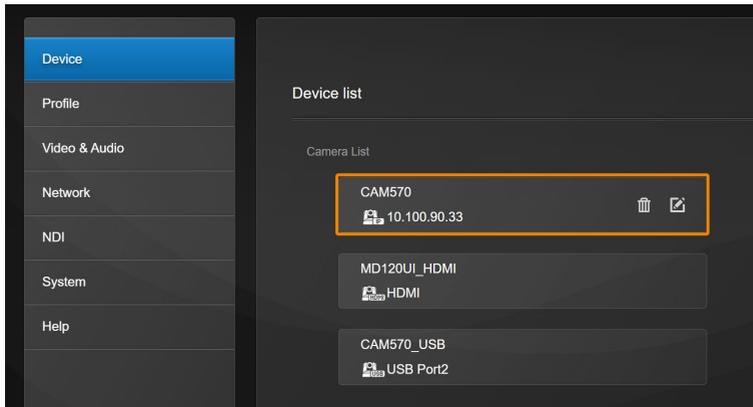
1. Hover over the device.

2. Click the **Pencil** icon to edit. Or click the **Trash can** icon to delete.

User Interface
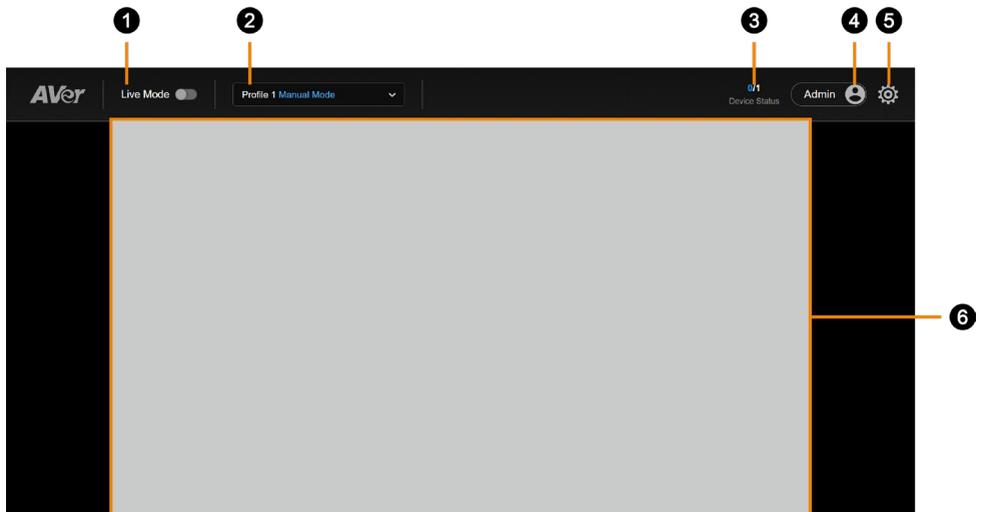
1. Live Mode Toggle

2. Select Profile

Set up a Manual Mode profile for each meeting room.

3. Device Count

Online device / added device count.

4. Account

Switch between admin and user accounts. A user cannot edit settings.

5. System Settings

6. Camera Live View

Live Mode

See camera live views, change layouts, and use pan, tilt, zoom controls.

To set up Live Mode:

1. Toggle on **Live Mode**.

2. Select a layout.

3. Drag and drop a camera from **Select Camera** to a live view grid.
   A blue circled number will appear on the camera icon to indicate the grid position.

To control a camera:

- Click to select a live view.
  The selected live view will be in a blue frame.

- Click a number to load a preset.

- Click the **Camera Switch** Button [icon] (TR535, TR535N only) to switch between PTZ camera and Wide-Angle camera.

- Toggle off **Live Mode** to exit Live Mode. Live Mode settings are saved automatically. Your last selected profile in **Setting** [icon] > **Profile** will be applied when you return to the main page.

- To clear settings, click **Reset** to reset Live Mode to factory default settings.

Manual Mode

Use presets and Human Tracking modes to follow the presenter. You can set up a Manual Mode profile for each meeting room.
Make sure you have defined required presets and configured required tracking modes on the camera web interface.

1. Click the **Settings** icon ⚙ on the top-right corner > **Profile** > **Manual Mode Settings**.

2. Create a profile by choosing a profile from the **Profile** drop-down list.

3. Select a live view layout for up to 4 cameras, then select **Camera**, **Preset**, and **Human Tracking.**
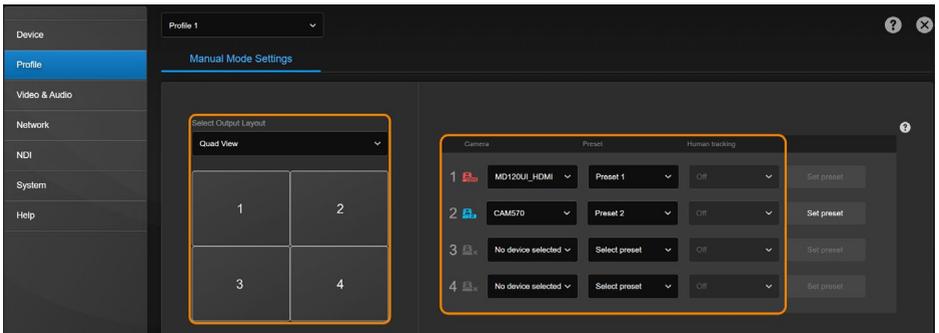
4. The profile is saved and applied automatically when you close the **Profile** page by clicking ⊗.
   Your Manual Mode profile will now be applied.

Add a Preset

You can also add presets on the device.
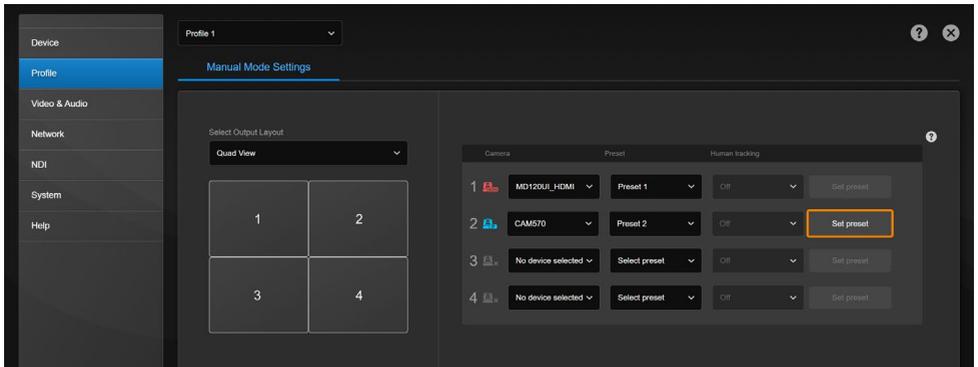
1. Click **Set preset** to add presets.

2. Position your camera using pan, tilt, zoom controls, click a number, then click **Save** to save that position.

3. Click **Back** to return to the **Profile** page.

System Settings

Video & Audio
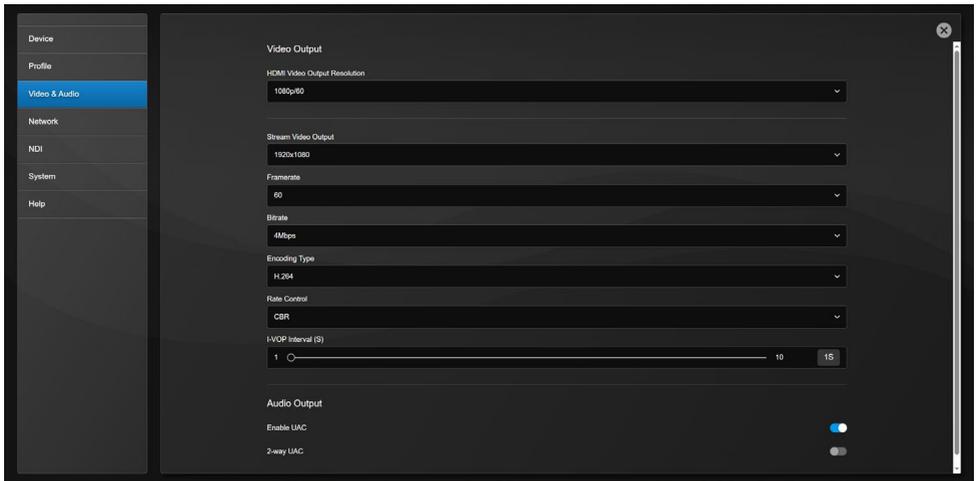
Video Output

Item	Description
HDMI Video Output Resolution	Choose a video output resolution.
Stream Video Output	Choose a streaming output resolution for the live view.
Framerate	Choose a framerate.
Bitrate	Choose a bit rate.
Encoding Type	Choose **H.264** or **H.265**.
Rate Control	Choose Variable Bit Rate (**VBR**) or Constant Bit Rate (**CBR**).
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.

Audio Output

Item	Description
Enable UAC	Enable 1-way audio input from the camera to the computer.
2-way UAC	Enable audio input from the computer to speaker connected to the USB port 2 on the device.

Network
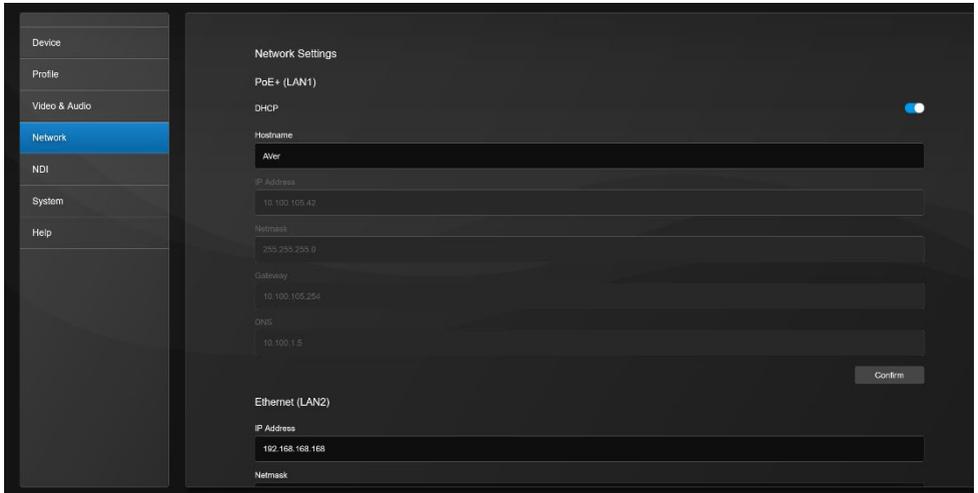
PoE+ (LAN1)

Item	Description
DHCP	Toggle DHCP on or off.
Hostname	Enter a hostname that is displayed on devices such as an IP router. ● The default is [Model name]-[last 6 digits of PoE+ MAC Address]
IP Address	Toggle off DHCP first, then enter your network settings to set up a static IP connection.
Netmask	
Gateway	
DNS	

Ethernet (LAN2)

Item	Description
IP Address	Enter your network settings to set up a static IP connection.
Netmask	
Gateway	
DNS	

RTMP Settings

Item	Description
RTMP Streaming 1	Stream live video to a video platform such as YouTube. To enable live streaming on YouTube: 1. Go to YouTube. 2. From the top right, click **Create** > **Go live**.
RTMP Streaming 2	3. Copy and paste your YouTube server URL and stream key into the web interface. 4. Click **Start Stream** to start streaming, **Stop** to stop streaming.

RTSP Settings

Item	Description
RTST Security	Turn on Real-Time Streaming Protocol (RTSP) Security to protect your video stream on media players such as VLC, PotPlayer and QuickTime by ensuring that only authorized users can access it. ● When RTSP 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 RTSP 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 username/password: camera's username/password (web interface login)

HLS Settings

Item	Description
Stream URL	Configure HTTP Live Streaming (HLS) settings to provide adaptive bitrate streaming, which ensures smooth playback and minimizes buffering. 1. Enter the stream URL obtained from the streaming service or server. 2. Click **Start Stream** to start streaming, **Stop** to stop streaming.

HTTP Settings

Item	Description
TCP Command String Control Port	Set a control port number. The default is 1315.
HTTPS	Enable HTTPS to establish a secure connection between your browser and your camera.
Upload Certificate	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**.

NDI

Network Device Interface (NDI) protocol transmits high-quality, low-latency video and audio streams over IP networks.
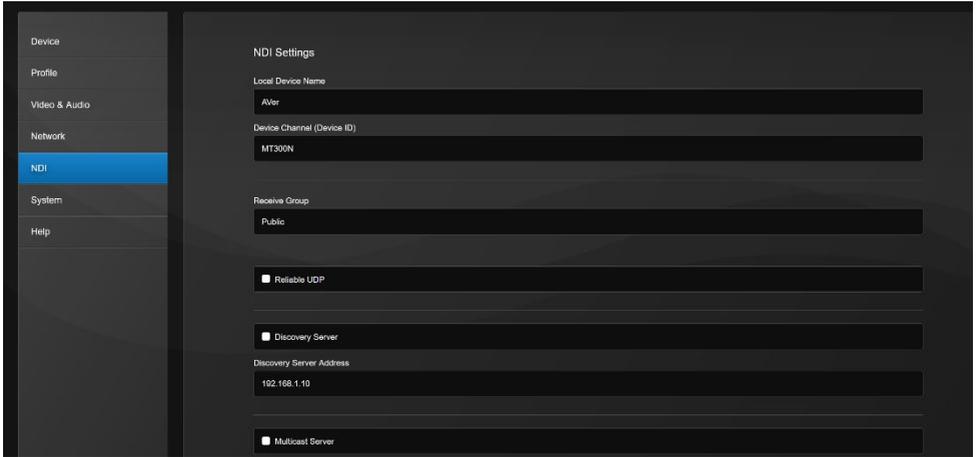
Item	Description
Local Device Name	Enter a name that identifies your camera group on the NDI software. ● The default is AVer.
Device Channel (Device ID)	Enter a name that identifies your camera on the NDI software. ● The default is the model name. ● Use no more than 10 characters, upper and lowercase letters, numbers and symbols (! @ % ^ , . / : + ? [ ] { } - _ ~).
Receive Group	Enter a name for a receive group. ● All devices in the receive group receive the same NDI streams. ● The receive group should remain **public**. If this is changed, you will need to join the group through NDI® Access Manager.
Reliable UDP	Enable Reliable User Datagram Protocol (RUDP) to improve streaming quality.
Discovery Server	Select the checkbox to enable discovery server to allow devices to discover and connect to each other on a network automatically.
Discovery Server Address	Enter the IP address of a server running a discovery server application.
Multicast Server	Select the checkbox to enable multicast server to allow efficient distribution of NDI streams to multiple receivers without

	overwhelming the network.
Multicast Server Address	Enter the IP address of a group of recipients that receive NDI streams from a multicast server.
Multicast Server Mask	Enter the network mask to specify the range of IP addresses that are eligible to receive NDI streams.
Multicast TTL	Enter a multicast time to live (TTL) value between 1-255 to control the distance multicast packets can travel.

System
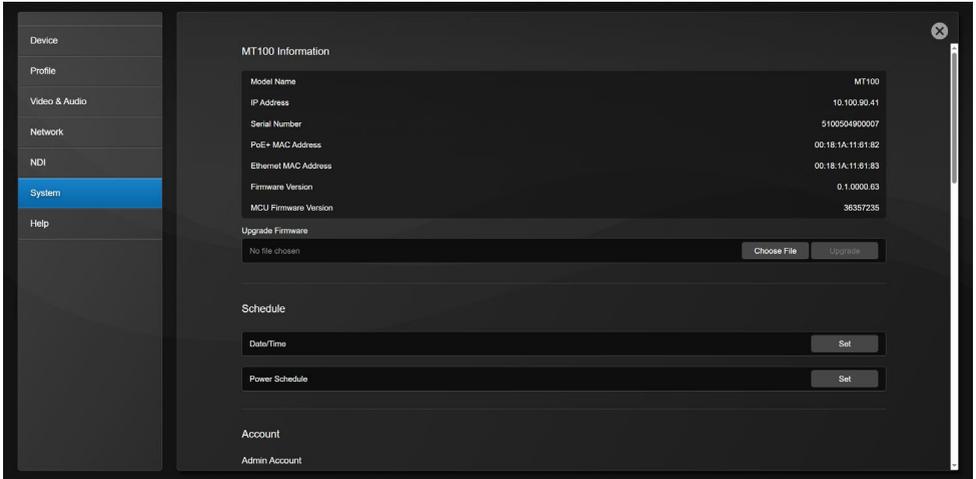
Item	Description
MT100 Information	Displays the device information such as the IP address.
Upgrade Firmware	Download the latest firmware from AVer Download Center (https://www.aver.com/download-center).
Schedule	• Date/Time: Set date and time for the device. • Power Schedule: Schedule specific times for the device to start up, reboot, or shut down.
Account	Edit the admin or user account login. ● Admin: The default username/password is **admin/admin**. ● User: The default username/password is **user/user**.
General	● Language: Change the web interface language. ● Help us improve: Opt-in or opt-out of providing anonymous usage data. ● Factory default: Reset the device to factory default settings. ● Reboot: Restart the device.
Export / Import Settings	Export or import device settings and save debug files.
Shortcuts Key Setting	Set shortcuts for your USB keyboard or computer keyboard. You can set up to 36 shortcut keys.
Watermark Setting	Show or hide watermark on camera live view. You can upload your own watermark image, and select a watermark position from the drop-down list. • Supported file format: PNG only • File size: Max. 2MB

Help
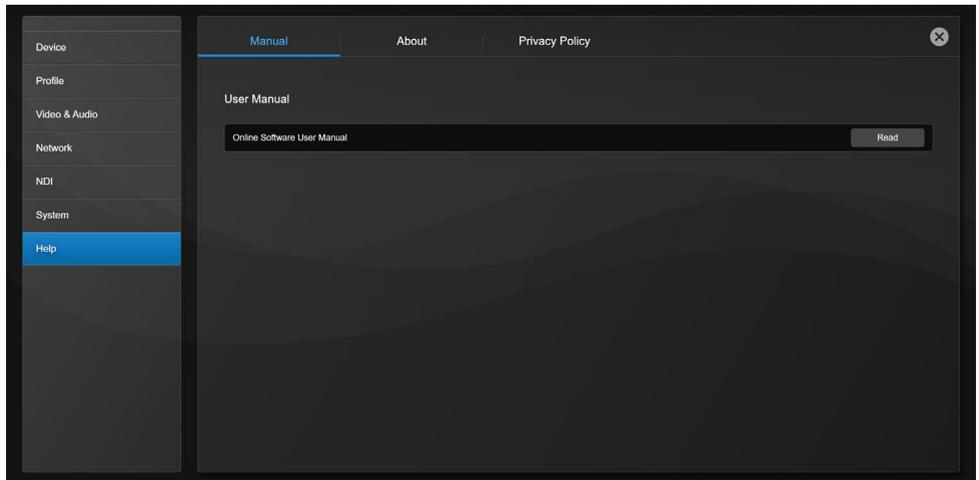
Item	Description
Manual	View software user manual online.
About	View software terms and condition.
Privacy Policy	View software privacy policy.

MT Control Panel App

Control your AVer matrix boxes from a desktop, tablet, mobile or the AVer CP10 G2 Collaboration Controller. The app gives you access to the same settings as the web interface, with added convenience—as an admin, you can add up to 3 matrix boxes and easily switch between their video feeds.

● Available on Windows, macOS, and Android.

● Defaults back to the user account after closing and reopening the app to protect system settings.

● Supports:

MT100 Matrix Box
MT300 Matrix Tracking Box
MT300N Matrix Tracking Box

Install MT Control Panel

Download and install MT Control Panel to your desktop, tablet or mobile from AVer Download Center. (https://www.aver.com/download-center) and open the app.

Note: For iPadOS and iOS, please download AVer Control Panel. This app gives you access to the same settings as the web interface.

Pair with MT Control Panel

1. Make sure the MT Control Panel and the matrix box are connected to the same LAN.

2. Open MT Control Panel app. The app will auto search for available matrix boxes. Or tap **IP Search** and enter your matrix box's IP address.

3. Tap to select your matrix box, tap **Pair**, then enter the username and password to start pairing.
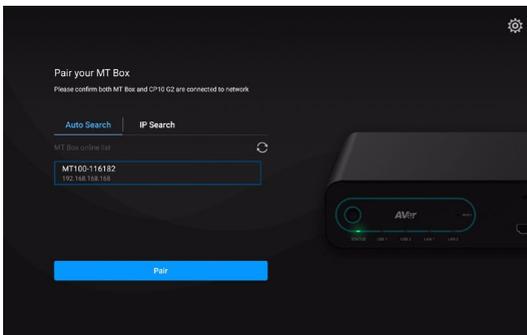
4. You will now be logged in to the matrix box.
   Configure settings as you would on its web interface.
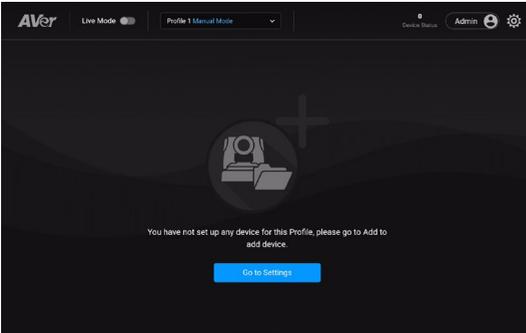
Add and Switch between Matrix Boxes

1. Make sure you are logged in as an admin.
   Or tap the **account** icon on the top-right corner to switch to the admin account.

2. Tap the **gear** icon in the top-right corner to enter system settings.
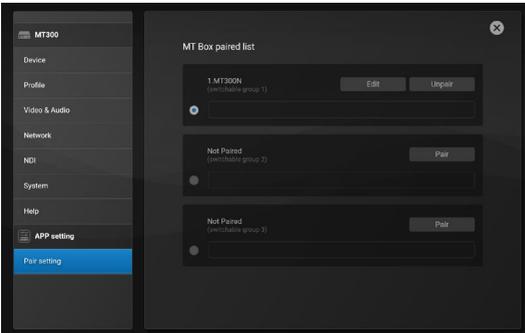
3. Tap **Pair setting** and do one of the following:
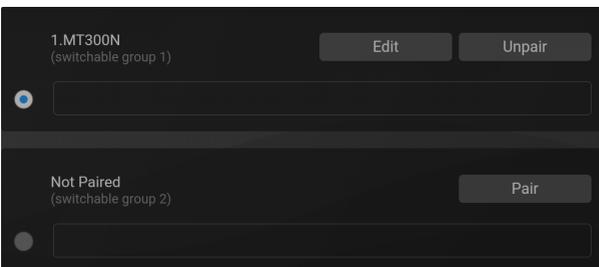
● To add a matrix box, tap **Pair**.

- To remove a matrix box, tap **Unpair**.

- To replace a matrix box with another, tap **Edit**.

- To switch between video feeds, tap the **radio button** ◉ to select the matrix box you want.

4. (Optional) Enter a description in the blank fields to help you identify the matrix boxes.

Specifications

Video	Video input number	Max. 4 USB+IP+HDMI: max.4 (USB+IP: max 3, 1x HDMI) USB+IP: max. 4 IP only: max. 4
	Video connection number	Max. 4
	Max. stream out number of layout	Max. 4
	Video Input signal type	HDMI, USB, IP
	Video input resolution	up to 1080p60 - HDMI 1080p - USB: 1080p - IP: 1080p
	Maximum video output	1 (HDMI, USB, IP), All outputs are mirrored
	Video output signal	x1 HDMI, x1 USB 3.0 Type-B IP NDI HX2
	Video output resolution	Up to 4K60 HDMI output: 4K60 USB output: MJPEG 4K30, YUY2 1080p30 IP output: Up to 4K60 (Maximum decode resolution 1080p60)
	NDI	Yes. Camera input: NDI HX3 Camera output: NDI HX2
	Video output layout	Manual (6): Single, Side-by-side, Main Speaker w/ 3 inputs, Main Speaker w/ 4 inputs, PiP, Quad View
Audio	Audio input signal type	USB
	Audio output signal type	USB, HDMI, IP
	Bi-directional UAC	Yes
	USB audio bypass	x
I/O Interface	HDMI in	1
	USB in	2 (USB-A 1: Video, Control, USB-A 2: Video, Audio)
	HDMI out	1
	USB out	1
	RJ45	2 (x1 PoE+, x1 Ethernet)
	PoE+	YES, 42.5V to 57V 0.6A

	Power	x1 DC 12V
Controls and Indicators	LED indicators quantity	x4, STATUS, USB OUT, LAN 1, LAN 2
	Power push button	Yes
	Reset button	Yes
Feature	Voice tracking	x (onboard: not supported; can be enabled through future license upgrade)
	Supported audio vendor	x (onboard: not supported; can be enabled through future license upgrade)
General	Device setup	Yes, via web interface, MT Control Panel
	Warranty	5-year
	Integrate w/ CP10 G2	Yes, via MT Control Panel
	Operating conditions	Temperature: 0°C to +50°C Humidity: 20% to 80%
	Storage conditions	Temperature: -20°C to +60°C Humidity: 20% to 95%
	Power consumption	14.2W
	Dimensions (W x D x H)	15.0 x 21.0 x 4.3 cm (Height includes rubber feet.)
	Net weight	0.83 (±0.1) kg
	LED indicator: STATUS	Orange: power on Green: operating Green (flashing): firmware upgrading
	LED indicator: USB	Green: connected and standby Green (flashing): USB streaming
	LED indicator: LAN	Green: connected
	Cable fixing plate	Yes, optional
	Rack mount brackets	Yes, optional
	Server rack mount	Yes, optional
	Kensington lock	Yes
	Package content	MT100
		Power Adapter & Power Cable
		USB 3.0 Cable (x1)
		Quick Start Guide
	Optional accessories	Cable Fixing Plate (x2)
		Cable Tie (x6)
		3.0 x 5 mm Flat Head Screw (x5)
		Rack Mount Bracket (x2)
		3.0 x 5 mm Truss Head Screw (x4)
		M3 x 10 mm Screw (x4)

		Server Rack Mount Note: Installing the server rack requires two rack mount brackets and the necessary screws. Refer to the installation chapter for more details.
		3.0 x 5 mm Flat Head Screws (3x)
		3.0 x 5 mm Truss Head Screws (2x)
	Supported AVer software	Room Management, Enterprise Management (formerly PTZ Management), Cloud Management: Supported by mid 2025
	MT Control Panel	a) Windows, Mac OSX, Android b) iOS 14 and later for iPad and iPhone (supported by late 2025)

Specifications are subject to change without prior notice.

Appendix

HTTP Requests

Function	Request	Description
Set profile	http://[account]:[password]@[IP Address]/request= setProfile&profile=[number]	
Reboot	http://[account]:[password]@[IP Address]/cgi-bin?OnePush=!	
Get power schedule	http://[account]:[password]@[IP Address]/cgi-bin?GetData=sys_power_schedule	Hours are separated by a ", ". Days are separated by an "_".
Set power schedule	http://[account]:[password]@[IP Address]/cgi-bin?SetData=sys_power_schedule,"0,1,0,1,1,1, 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1_1,1,1,1,1,1,1, 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1_1,1,1,1,1,1,1,1, 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1_1,1,1,1,1,1,1,1,1, 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1_1,1,1,1,1,1,1,1,1,1, 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1_1,1,1,1,1,1,1,1,1,1,1,1, 1,1,1,1,1,1,1,1,1,1,1,1,1,1_1,1,1,1,1,1,1,1,1,1,1,1,1, 1,1,1,1,1,1,1,1,1,1,0_"	Hours are separated by a ", ". Days are separated by an "_". An "_" must precede the end quote.
Get auto reboot status	http://[account]:[password]@[IP Address]/cgi-bin?Get=sys_reboot_time_en	0: disable 1: enable
Set auto reboot status	http://[account]:[password]@[IP Address]/cgi-bin?Set=sys_reboot_time_en,3,0 http://[account]:[password]@[IP Address]/cgi-bin?Set=sys_reboot_time_en,3,1	0: disable 1: enable
Get auto reboot time	http://[account]:[password]@[IP Address]/cgi-bin?GetString=sys_reboot_time	"02:00"
Set auto reboot time	http://[account]:[password]@[IP Address]/cgi-bin?SetString=sys_reboot_time,"02:00"	
Get 2-way UAC	http://[account]:[password]@[IP Address]/cgi-bin?Get=TrkBox_Two_way_uac_on	0: disable 1: enable
Set 2-way UAC	http://[account]:[password]@[IP Address]/cgi-bin?Set=TrkBox_Two_way_uac_on,2,0 http://[account]:[password]@[IP Address]/cgi-bin?Set=TrkBox_Two_way_uac_on,2,1	0: disable 1: enable
Get device status	http://[account]:[password]@[IP Address]/request=queryDeviceStatus	Device Info: name=device name, type=camera or microphone, port=USB1~2, HDMI1, or IP status=online or offline
Get general mode	http://[account]:[password]@[IP Address]/request=getGeneralMode	0 (profile mode), 1 (live mode)
Set general mode	http://[account]:[password]@[IP Address]/request=setGeneralMode&generalMode=[generalMode ID]	generalMode ID: 0 (profile mode), 1 (live mode)

Enable live mode	http://[account]:[password]@[IP Address]/request=enableLiveMode	
Disable live mode	http://[account]:[password]@[IP Address]/request=disableLiveMode	
Get live mode layout	http://[account]:[password]@[IP Address]/request=getLiveLayout	liveLayout: PIP(0), Single(1), Side-by-side(2), Main Speaker(3), Main Speaker(4), Quad View(5)
Set live mode layout	http://[account]:[password]@[IP Address]/request=setLiveLayout&liveLayout=[liveLayout ID]	liveLayout: PIP(0), Single(1), Side-by-side(2), Main Speaker(3), Main Speaker(4), Quad View(5)

Query all profile info	http://[account]:[password]@[IP Address]/request=queryAllProfileTbInfo	response profile data array.
		array item:
		{
		"currentGroup":1, //
		current group ID
		"enableVoiceTracking":1, // pause
		or resume
		"isCurrent":1,
		// is current profile
		"layoutAuto":4,
		// auto mode layout
		"layoutManual":3, //
		manual mode layout
		"mode":0,
		// auto mode or manual mode
		"pid":1,
		// profile ID 1~36
		"profileName":"", //
		profile name naming by user
		"profileOrder":1
		}

Get current profile mode	http://[account]:[password]@[IP Address]/request=getMode	manual mode only
Query device status	http://[account]:[password]@[IP Address]/request=queryOnlineDevice	
Query live mode all layout settings	http://[account]:[password]@[IP Address]/request=queryLiveModeData	response live mode data array. array item: { "camView":0 // camView: 0 (Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...

		"deviceTbCamDid":43, // camera ID "liveModeLayout":1, // layout ID: 0~5 "sourceOrder":1 // source order: 1~4 }
Reset live mode data	http://[account]:[password]@[IP Address]/request=clearLiveModeData	

Get live mode device list	http://[account]:[password]@[IP Address]/request=queryLiveModeDeviceInfo	response live mode device array.
		
		array item:
		{
		"camLensCount":1 // 0(Unknown), 1(Single lens camera), 2(Dual lens camera), ...
		"deviceTbCamDid":1, // camera ID
		"name":"USB1", // device name
		"port":"USB1", // device port or IP address(IP cam)
		"type":"camera" // device type
		}

Set camera to live mode layout source	http://[account]:[password]@[IP Address]/request=setLiveModeSource&liveLayout=[liveLayout ID]&srcOrder=[sourceOrder]&camDid=[deviceTbCamDid]&camView=[camView Index]	liveLayout ID: 0~5 sourceOrder: 1~4 deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...

AVer Control Panel (formerly PTZ Control Panel)

HOME	http://[account]:[password]@[IP Address]/request=ptzHome&camDid=[deviceTbCamDid]&camView=[camView Index]	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
PanLeftStart	http://[account]:[password]@[IP Address]/request=ptzLeftStart&camDid=[deviceTbCamDid]&camView=[camView Index]	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
PanLeftStop	http://[account]:[password]@[IP Address]/request=ptzLeftStop&camDid=[deviceTbCamDid]&camView=[camView Index]&camView=[camView Index]	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...

PanRightStart	http://[account]:[password]@[IP Address]/request=ptzRightStart&camDid=[deviceTbCamDid]&camView=[camView Index]	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
PanRightStop	http://[account]:[password]@[IP Address]/request=ptzRightStop&camDid=[deviceTbCamDid]&camView=[camView Index]	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
TiltUpStart	http://[account]:[password]@[IP Address]/request=ptzUpStart&camDid=[deviceTbCamDid]&camView=[camView Index]	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
TiltUpStop	http://[account]:[password]@[IP Address]/request=ptzUpStop&camDid=[deviceTbCamDid]&camView=[camView Index]	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
TiltDownStart	http://[account]:[password]@[IP Address]/request=ptzDownStart&camDid=[deviceTbCamDid]&camView=[camView Index]	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
TiltDownStop	http://[account]:[password]@[IP Address]/request=ptzDownStop&camDid=[deviceTbCamDid]&camView=[camView Index]	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
ZoomInStart	http://[account]:[password]@[IP Address]/request=ptzZoomInStart&camDid=[deviceTbCamDid]&camView=[camView Index]	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
ZoomInStop	http://[account]:[password]@[IP Address]/request=ptzZoomInStop&camDid=[deviceTbCamDid]&camView=[camView Index]	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
ZoomOutStart	http://[account]:[password]@[IP Address]/request=ptzZoomOutStart&camDid=[deviceTbCamDid]&camView=[camView Index]	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
ZoomOutStop	http://[account]:[password]@[IP Address]/request=ptzZoomOutStop&camDid=[deviceTbCamDid]&camView=[camView Index]	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
FocusInStart	http://[account]:[password]@[IP Address]/request=ptzFocusInStart&camDid=[deviceTbCamDid]&camView=[camView	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The

	Index]	second lens of multi-lens camera), ...
FocusInStop	http://[account]:[password]@[IP Address]/request=ptzFocusInStop&camDid=[deviceTbCamDid]&camView=[camView Index]	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
FocusOutStart	http://[account]:[password]@[IP Address]/request=ptzFocusOutStart&camDid=[deviceTbCamDid]&camView=[camView Index]	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
FocusOutStop	http://[account]:[password]@[IP Address]/request=ptzFocusOutStop&camDid=[deviceTbCamDid]&camView=[camView Index]	deviceTbCamDid: camera ID camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
GoPreset	http://[account]:[password]@[IP Address]/request=ptzGoPreset&camDid=[deviceTbCamDid]&presetNum=[preset number]&camView=[camView Index]	deviceTbCamDid: camera ID presetNum: 0~255 camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
SavePreset	http://[account]:[password]@[IP Address]/request=ptzSavePreset&camDid=[deviceTbCamDid]&presetNum=[preset number]&camView=[camView Index]	deviceTbCamDid: camera ID presetNum: 0~255 camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
GetFocusMode	http://[account]:[password]@[IP Address]/request=ptzGetFocusMode&camDid=[deviceTbCamDid]&camView=[camView Index]	deviceTbCamDid: camera ID focusMode: 0:AF 1:MF -1:NO Focus function device camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...
SetFocusMode	http://[account]:[password]@[IP Address]/request=ptzSetFocusMode&camDid=[deviceTbCamDid]&focusMode=[0:AF 1:MF]&camView=[camView Index]	deviceTbCamDid: camera ID focusMode: 0:AF 1:MF -1:NO Focus function device camView: 0(Single lens camera), 1 (The first lens of multi-lens camera), 2 (The second lens of multi-lens camera), ...

TCP Commands

A TCP command string starts with AVER:[account]:[password]:/request=X, and ends with \r\n.
X is as HTTP requests above.
For example, AVER:[account]:[password]:/request=pause\r\n,
AVER:[account]:[password]:/request=resume \r\n, and so on.

VISCA Command Table

The device also can be controlled via below VISCA over IP commands, but does not support VISCA RS-422 commands.

Command Set	Command	Command Packet	Comments
Power	OFF	8x 01 04 00 03 FF	Power off device
System	Change Profile	8x 01 04 40 01 YY FF	YY = profile num(0x01~0x24)
		8x 01 04 3F 02 YY FF	Preset recall, YY = profile num(0x01~0x24)
	Reboot	8x 01 04 A4 FF	Reboot device
	Switch USB Output	8x 01 7E 03 01 FF	USB port 1
		8x 01 7E 03 02 FF	USB port 2

Command samples:

Command Set	Command	Command Packet	Comments
Power	OFF	01 00 00 07 00 00 00 01 81 01 04 00 03 FF	Power off device