

AVer MT100 Matrix Box

AVer MT100S Matrix Tracking 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

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Overview

The MT100/MT100S is a multi-camera matrix box with integrated voice-tracking technology. Three built-in modes—**Live Mode, Manual Mode,** and **Auto Mode**— help you present video feeds in a single, composited stream, while supported AVer cameras automatically switch views based on the active speaker's position. Among them, Auto Mode is supported only by the MT100S.

Compare Modes

- **Live Mode:** Preview live video and control PTZ. Settings are not saved, making it suitable for on-the-fly operation.
- **Manual Mode:** Save fixed camera presets and output layouts. Supports human tracking.
- **Auto Mode:** Uses voice-tracking technology—based on microphone channels—to automatically frame the active speaker.

Feature	Live Mode	Manual Mode	Auto Mode - Channel (MT100S Only)
Live view camera count	4	4	4
Profiles	–	36	36
Presets	–	256	256
AVer camera + microphone groups	–	–	25
Human Tracking	–	✓	✓
3rd-party microphone integration	–	–	✓
X, Y, Z coordinates input	–	–	–

Understand Human Tracking

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

To enable human tracking with Manual Mode and Auto Mode (Channel), 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: Auto Mode (Channel) with Presenter Mode



Channel 1 detects voice

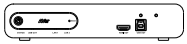


Camera moves to preset 1

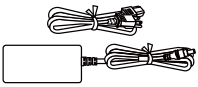


Presenter Mode is turned on

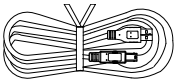
Package Contents



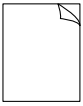
Matrix Box



Power Adapter & Power Cord

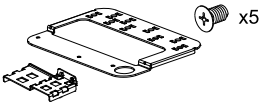


USB 3.0 Cable 1.5 m / 4.92 ft.



Quick Start Guide

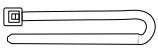
Optional Accessories



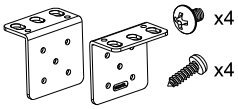
Cable Fixing Plate Installation Kit

Cable Fixing Plates (x2)

3.0 x 5 mm Flat Head Screws (x5)



Cable Ties (x6)

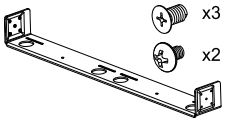


Rack Mount Installation Kit

Mount Brackets (x2)

3.0 x 5 mm Truss Head Screws (x4)

M3 x 10 mm Screws (x4)



Server Rack Installation Kit*

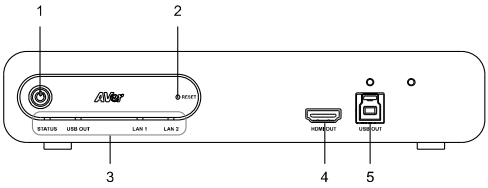
Server Rack (x1)

3.0 x 5 mm Flat Head Screws (x3)

3.0 x 5 mm Truss Head Screws (x2)

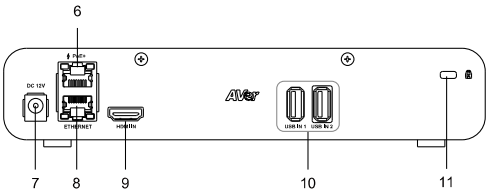
* Installing the server rack requires the rack mount installation kit.
Please refer to the <Server Rack Installation> for details or contact your local dealer.

Parts Info



Front View

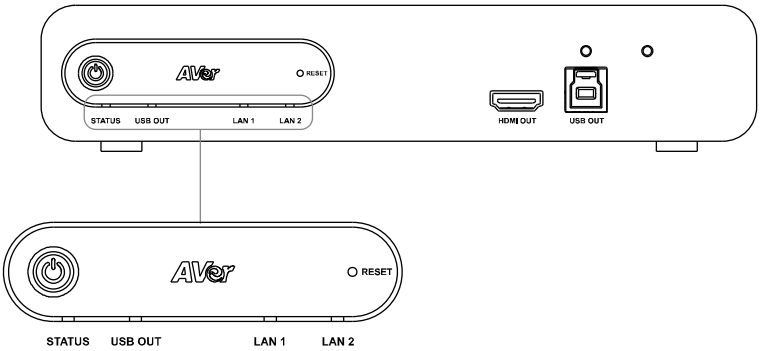
1. Power Button
2. Reset Button
3. Status LEDs
4. HDMI® Output Port
5. USB 3.0 Type-B Output Port



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

LED Indicators



- **Status (Power / System)**

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

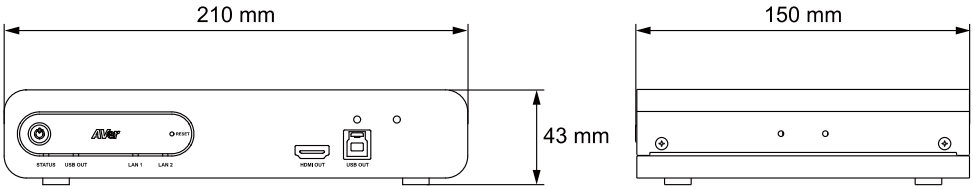
- **USB Out**

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.

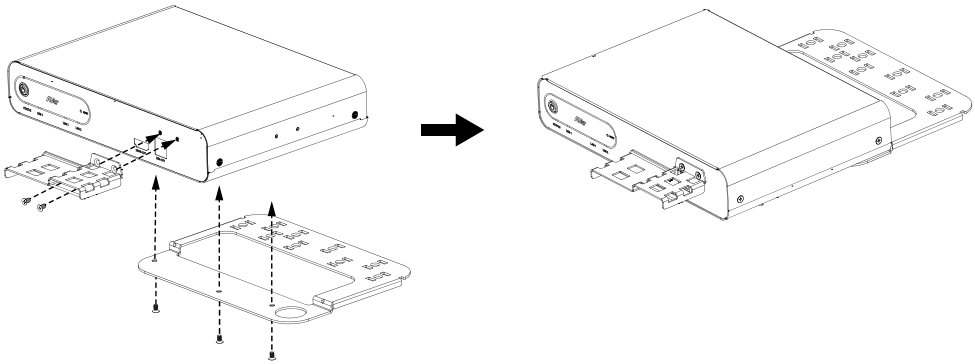
Dimensions



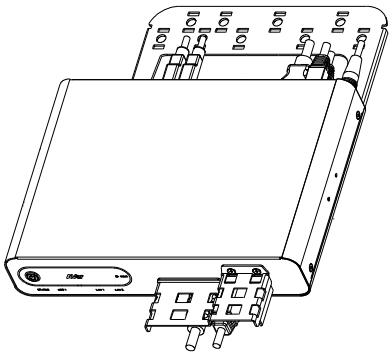
Installation

Cable Fixing Plate Installation (Optional Accessories)

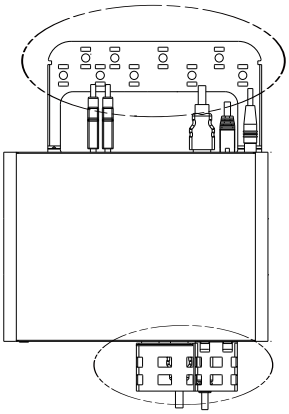
1. Secure the cable fixing plates to the device with 5 flat hat 3.0 x 5 mm screws in the package.



2. Plug in cables.

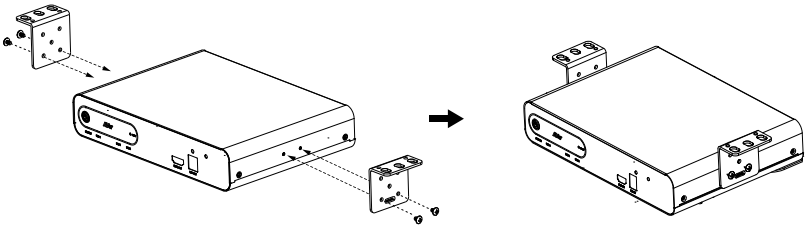


3. Use 6 cable ties in the package to secure the cables and cable fixing plates.

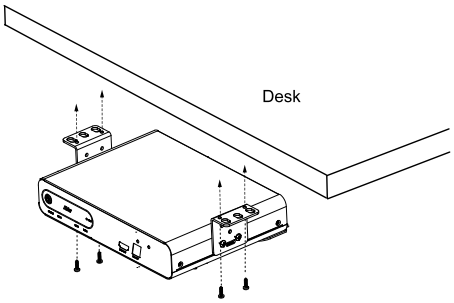


Desk Mount Installation (Optional Accessories)

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

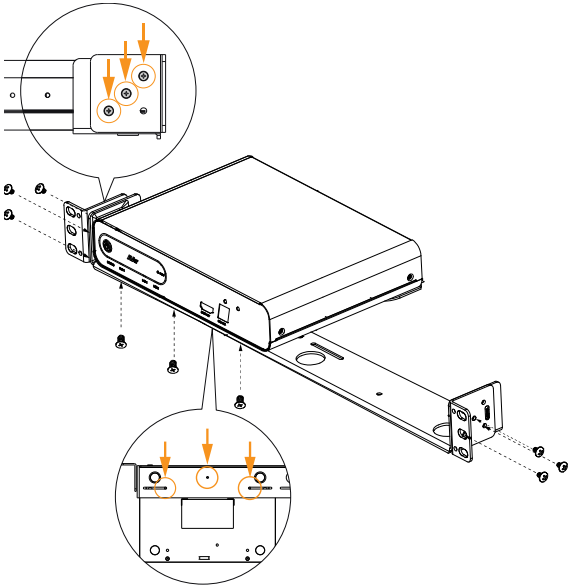


Server Rack Mount Installation (Optional Accessories)

The rack mount installation kit is also required.

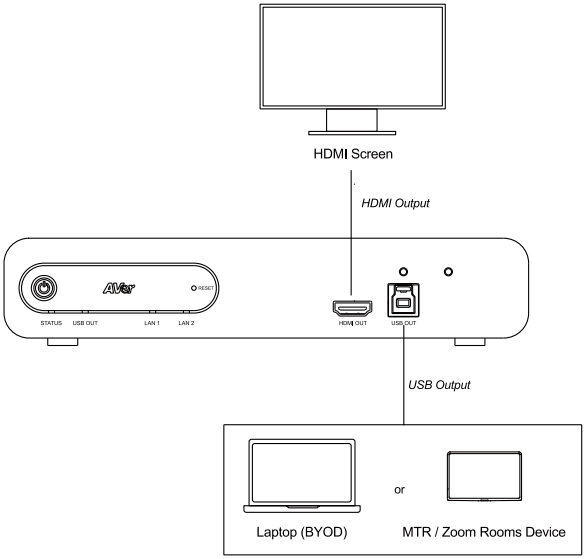
1. Secure the server rack mount bracket to the device from the bottom using 3 flat head screws.

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).

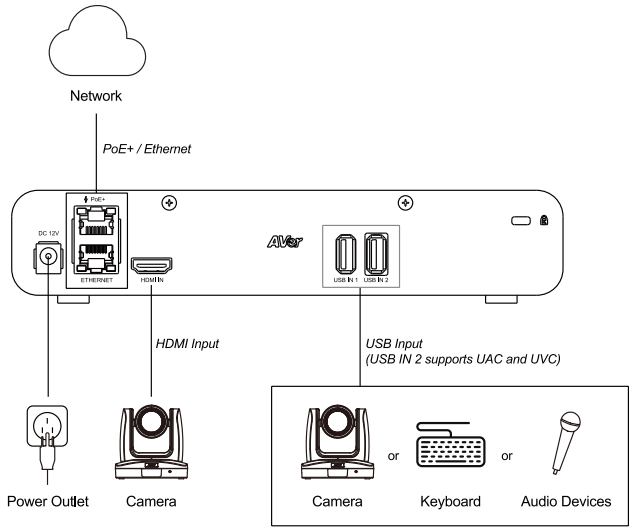


Connections

- **Front Panel**



- **Back Panel**



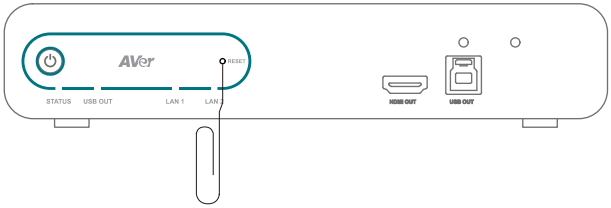
Get Started

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.



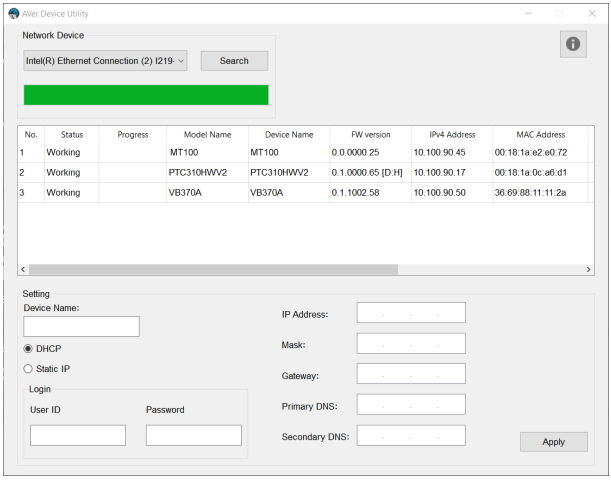
Access the Web Interface

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:

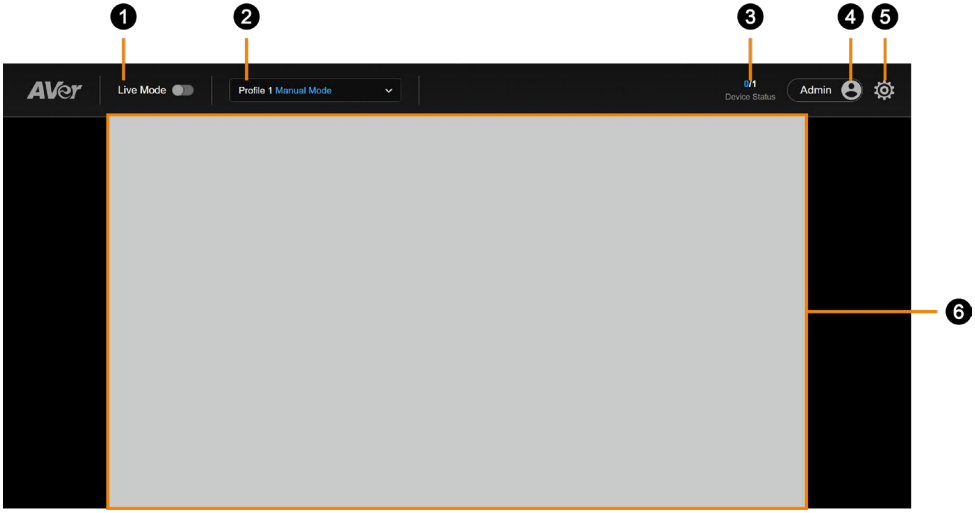
1. Select the checkbox of your device.
2. Enter the default or changed username and password in the **Login** field.
3. Select **DHCP** or **Static IP**, then enter your network settings if applicable in the **Settings** section.
4. Click **Apply**.

Log in for the First Time

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.

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**

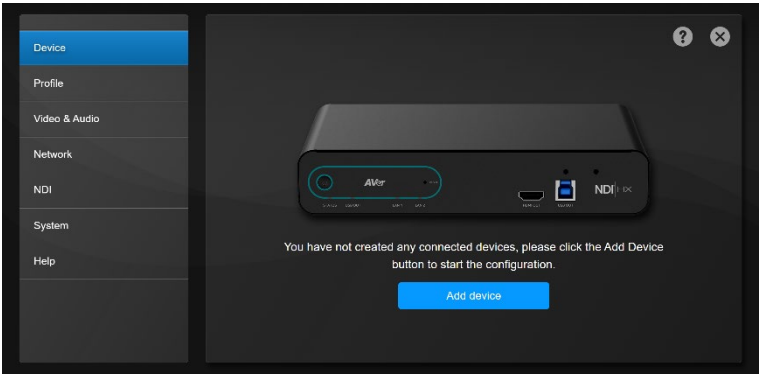
Switch between admin and user accounts. A user cannot edit settings.

5. **System Settings**

6. **Camera Live View**

Add, Edit or Delete Devices

You can add up to 4 different cameras via USB, HDMI, and IP.
In Live Mode and Manual Mode, up to 4 video outputs are supported in the output configuration.



To add devices:

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.

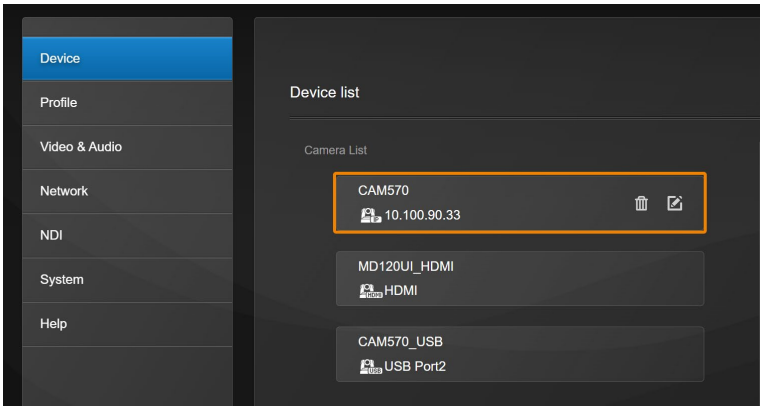
Item	Description
Connect Camera	• IP: Connect to Ethernet or PoE+ port. • USB Port 1: Stream video. • USB Port 2: Stream audio and video. • HDMI: Select **Control via IP** for Human Tracking functions. • Non-AVer camera via IP: Select **Streaming via RTSP** and enter RTSP URL or **Streaming via NDI** 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 Camera Password	Enter camera account and 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**.

To edit or delete devices:

1. Hover over the device.
2. Click the **Pencil** icon to edit. Or click the **Trash can** icon to delete.



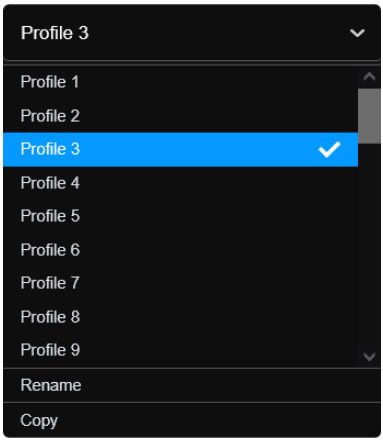
Manage Profiles

Profiles allow you to store and switch between device configurations for Manual Mode and Auto Mode.

You can rename a profile, copy a profile (duplicate), and switch between modes within a profile.

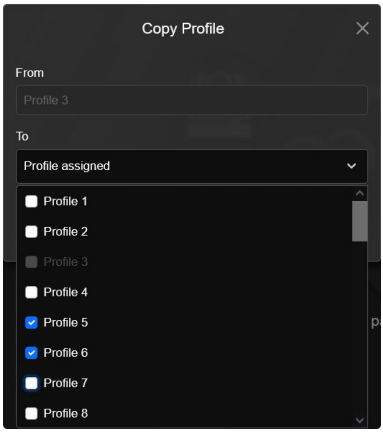
> ⚠ A single profile can store both **Manual Mode** and **Auto Mode** settings, but only one mode can be active at a time.

To rename a profile:



Go to **Settings** > **Profile** > select a profile and click **Rename**.

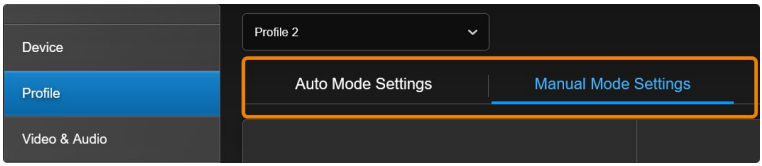
To copy a profile:



1. Go to **Settings** > **Profile** > select a profile you want to copy, and click **Copy**.
2. Select one or more destination profiles, then click **Confirm**.

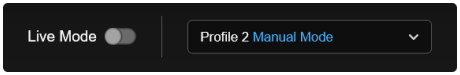
> **Note:** Any existing configurations in the selected profiles will be overwritten.

To switch between modes within a profile:



1. Go to **Settings** > **Profile** > click the tab for the mode you want to apply.
2. Click to exit the profile page. Your settings are automatically saved and applied.

   You can confirm the active mode from the on the homepage.



Live Mode

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



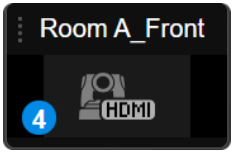
To set up Live Mode:

1. Toggle on **Live Mode**.

2. Select an output layout.



3. Drag a camera icon from Select Camera onto the grid. The blue number on each camera icon indicates its position in the layout.



4. To clear the settings, click **Reset**.

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  (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** > **Profile** will be applied when you return to the main page.
- To clear settings, click **Reset** to reset Live Mode to factory default settings.

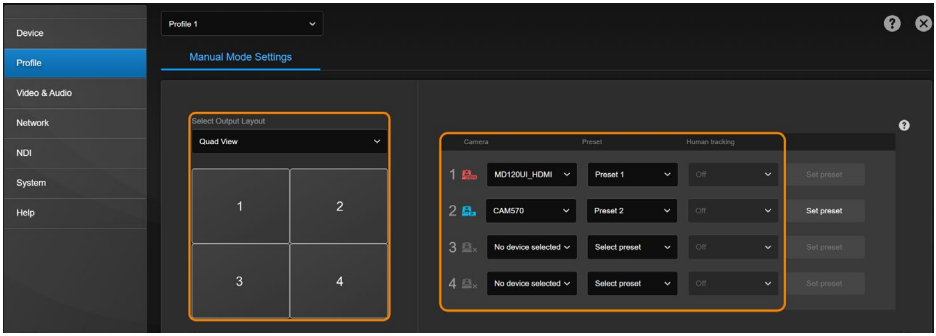
Manual Mode

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.

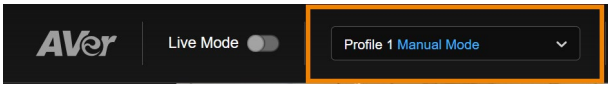
1. Click the **Settings** icon on the top-right corner > **Profile** > **Manual Mode Settings**.

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.**

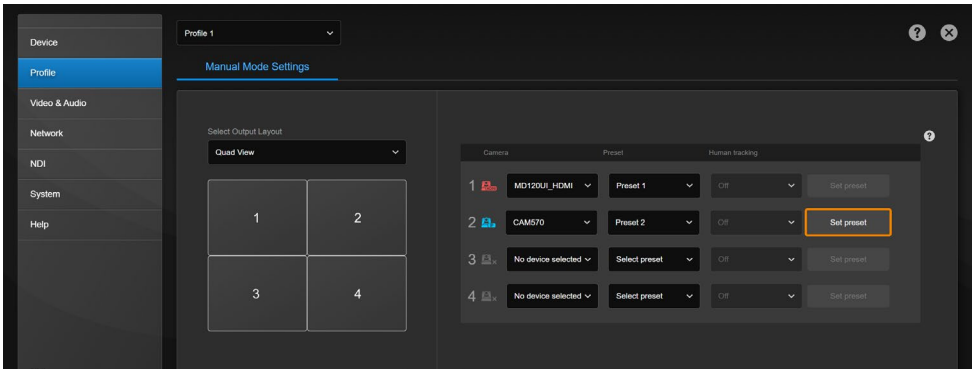


4. The profile is saved and applied automatically when you close the **Profile** page by clicking . Your Manual Mode profile will now be applied.



Add a Preset

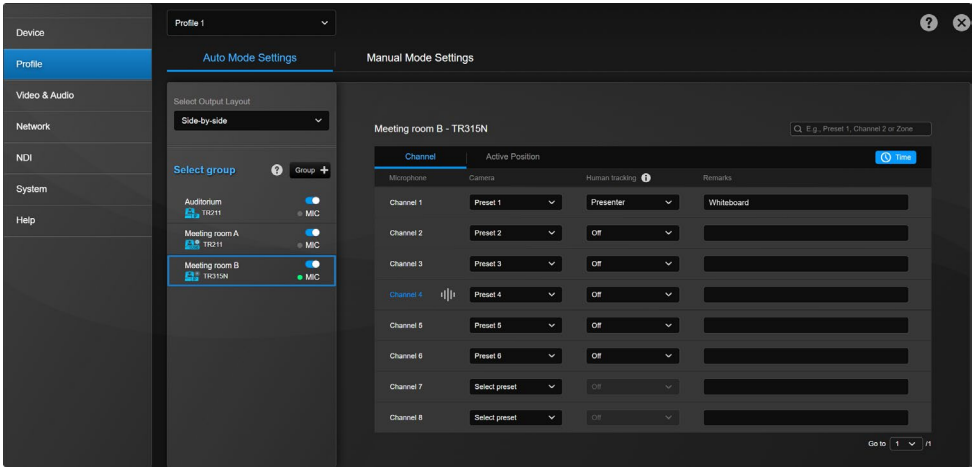
You can also add presets on the device.



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.



Auto Mode – Channel (MT100S Only)



Auto Mode (Channel) integrates supported third-party microphone systems from Audio-Technica. By pairing AVer camera presets with microphone channels, the system uses voice tracking to automatically frame the active speaker.

Note: Third-party microphones may require configuration in their manufacture software. For microphone settings, please refer to <Supported Microphones>.

To set up:

1. Go to **Settings** > **Profile** > **Auto Mode Settings**.

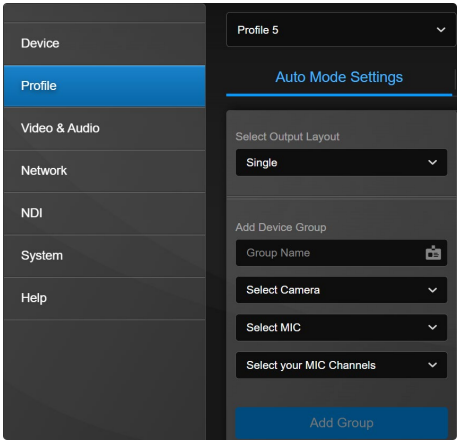
2. From the Profile drop-down menu, select the profile you want to save. To rename a profile, select the profile and click **Rename**.



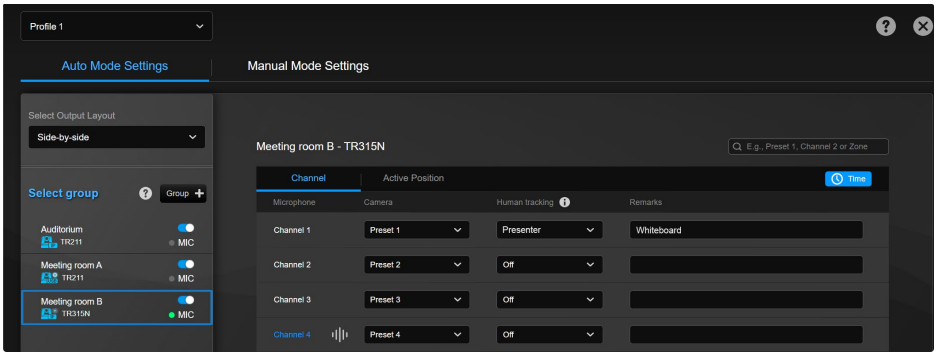
⚠ A single profile can store both **Manual Mode** and **Auto Mode** settings, but only one mode can be active at a time. Refer to <Manage Profiles> for details.

3. Select an output layout, then create groups by pairing the cameras you want with microphones and selecting the number of microphone channels.

   Note: You can create up to 25 groups, but Auto Mode (Channel and Active Position) supports a maximum of 7 unique cameras. Multiple groups can share the same camera.



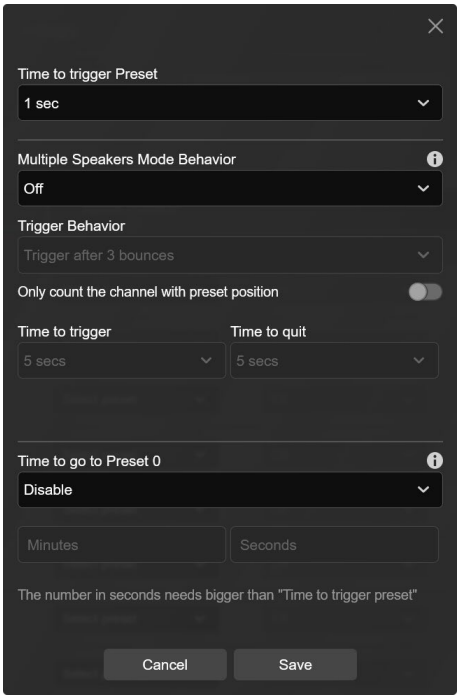
4. Newly created groups appear under **Select Group**. Click Group + to add additional groups.



5. Create presets and pair them with microphone channels.

   Use the camera remote or click the group's hamburger menu ☰ > **Set preset** to create presets according to the seating arrangement. Then pair each preset with the appropriate microphone channel.

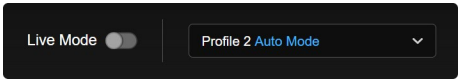
6. (Optional) Click Time to set a delay before the camera moves to a preset.



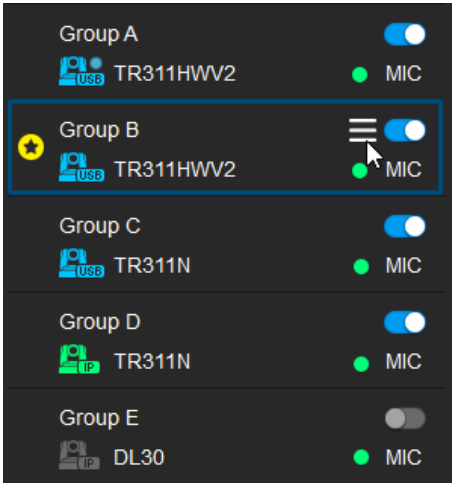
Item	Description
Time to trigger Preset	The group's camera moves to a preset after the delay time you set.
Multiple Speakers Mode behavior	When the microphone picks up multiple people speaking at the same time, the group's camera moves to preset 0. The purpose of this feature is to frame the whole room instead of switching rapidly between individual speakers. Refer to <Configure Multiple Speakers Mode>.
Time to go to Preset 0	When the microphone picks up no sound, the group's camera moves to preset 0 after the delay time you set. You can optionally choose a different preset other than preset 0 by assigning a priority group. **Note:** The duration of **Time to go to Preset 0** must be longer than **Time to trigger Preset**.

7. Click to exit the profile page. Your settings are automatically saved and applied.

   You can confirm the active mode from the profile drop-down list on the home screen.


Live Mode
Profile 2 Auto Mode

Add, Edit or Delete Groups



To add groups:

1. Access the web interface.
2. Go to **Settings** > **Profile** > **Auto Mode Settings** > Click Group +.

To edit or delete groups:

1. Hover over a group.
2. Click the hamburger menu, and do any of the following:
   - Set preset: Add camera presets.
   - Edit group
   - Delete group
   - Group overlay priority: Assign a priority group.
3. (Optional) Toggle a group on or off to enable or disable a group.

Device Status

- Camera

Color	Status
	Camera is sending data to MT300
	Device online
	Device offline
	Incorrect account or password

- Microphone

Color	Status
Green	Online
Gray	Offline

Assign a Priority Group

You can assign a priority group for the camera to go to when:

- Multiple groups share a camera.
- Microphone detects no sound (default preset 0).
- Multiple Speakers Mode activates (default preset 0).

To assign:

1. Hover over a group, then click the hamburger menu .
2. Click **Group overlay priority**.

   A **star** icon will appear next to the priority group.
3. Click **Group overlay priority** again to cancel priority group.

Configure Multiple Speakers Mode

When the microphone picks up multiple people speaking at the same time, the group's camera moves to preset 0. The purpose of this feature is to frame the whole room instead of switching rapidly between individual speakers.

To set up:

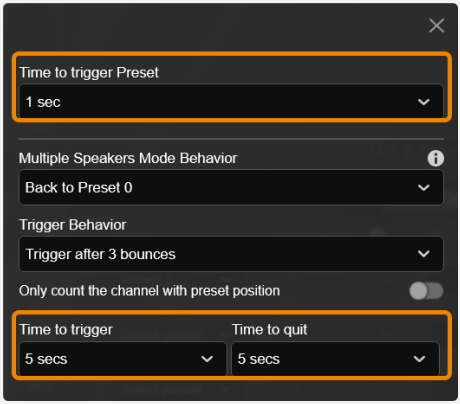
1. Go to **Settings** > **Profile** > **Auto Mode Settings** > select a group > click Time.
2. Enable the mode by selecting **Back to Preset 0**.

   You can optionally choose a different preset other than preset 0 by assigning a priority group.
3. Depending on your microphone type, set **Trigger Behavior** to adjust how multiple speakers are detected:



Mic Type	Trigger Behavior	Filter Setting (Only count...)
Ceiling	Trigger after 3 bounces (3 different active channels)	• OFF: If you want to include unmapped areas. • ON: If you want to ignore unmapped areas or have high background noise
Gooseneck	Trigger immediately (2+ audio signals)	• OFF: If you want to include unmapped areas. • ON: If you want to ignore unmapped areas.

4. Set **Time to trigger** and **Time to quit** to enter and exit the mode.



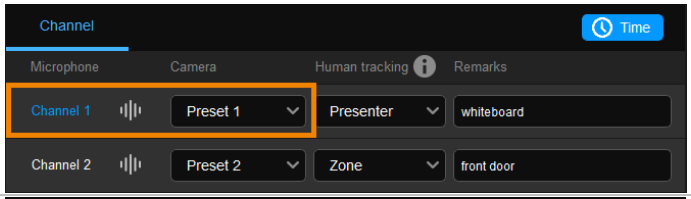
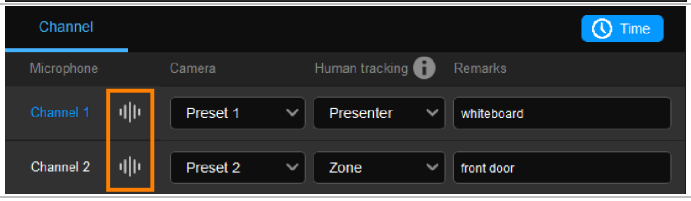
⚠ Set both **Time to trigger** and **Time to quit** to at least 3X the **Time to trigger preset**, so the system has enough time to detect multiple simultaneous speakers.

Understand Active Channels and Audio Signals

The matrix box uses active channels or audio signals based on the microphone type to detect multiple speakers.

- Ceiling microphones use **active channels** because open rooms cause sound to spread out. The system tracks how sound bounces across these virtual zones to recognize when a group discussion is happening.
- Gooseneck microphones use **audio signals** because they are fixed desktop units where spatial tracking isn't necessary.

Appearance in the Web Interface

Type	Example
Active channel (blue)	An active channel indicates the camera's location. 
Audio signal 	

Configure Output Layout

Customize your video layout with a Single view, Side-by-side view, Active Speaker view, Picture-in-Picture view, and Customized view. The default setting dynamically adds up to 4 channels and keeps a fixed grid layout, but you can also enable Layout Reduction to hide inactive channels.

Output Layouts

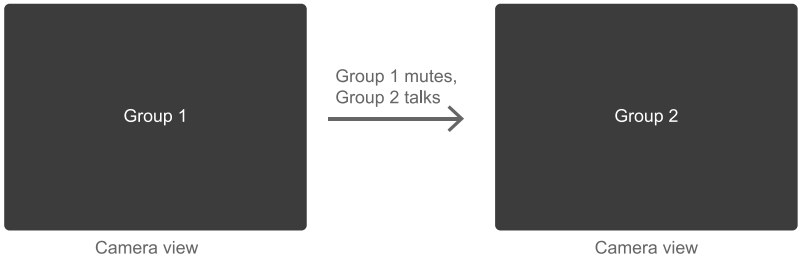
To select an output layout, go to **Settings** > **Profile** > **Auto Mode Settings** > select a group > **Select Output Layout**.

- **Single**

Displays current active channel's camera view in full-screen.

When all channels are muted, it shows the camera view of the first group on the list.

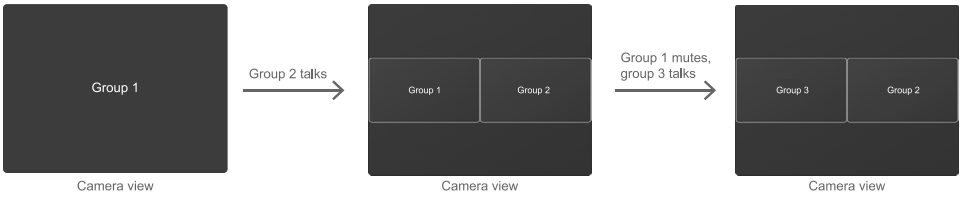
When one channel is muted, the next active channel will take over the full-screen.



- **Side-by-side**

Displays the camera views of two active channels side by side.

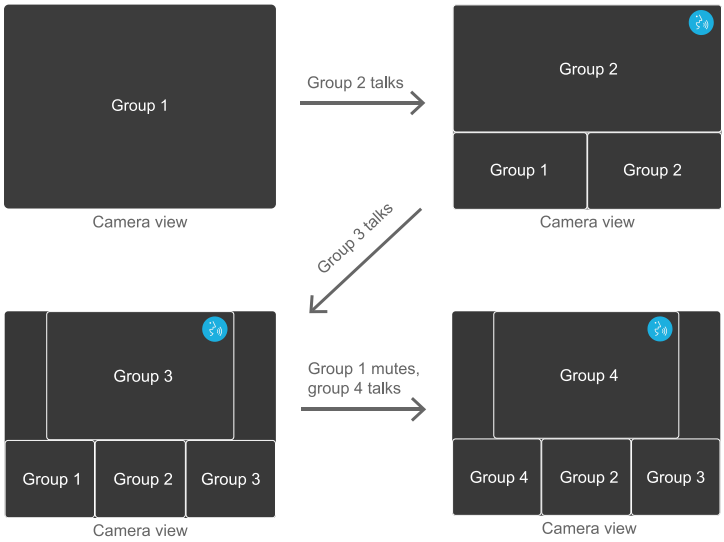
When one channel is muted, the next active channel takes the first available grid.



- **Active Speaker**

Dynamically displays the current active channel in the top large grid, while up to three standby channels appear in smaller grids on the second row.

When one channel is muted, the next active channel takes the first available grid.

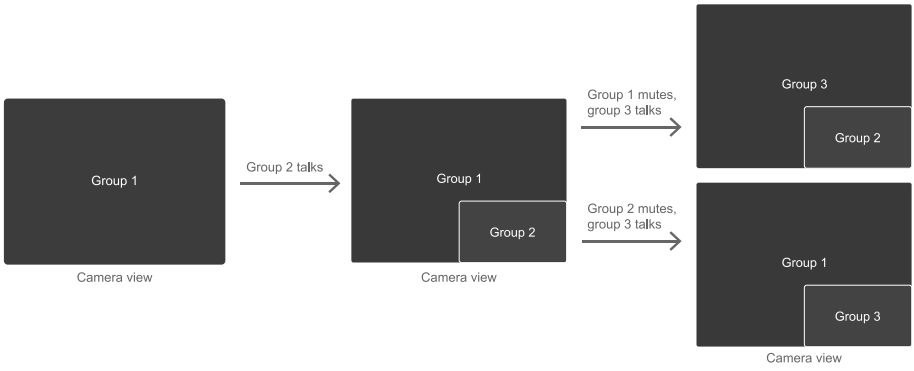


- **Picture-in-Picture (PIP)**

Displays two active channels in full-screen with a smaller grid.

When one channel is muted, the next active channel takes the first available grid.

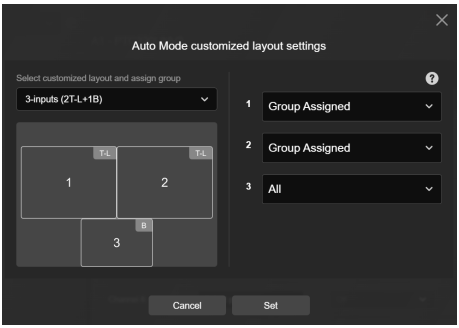
Note: When all channels are muted, it shows the camera view of the first group on the list, sorted alphabetically. To change the order, rename the group accordingly.



- **Customized** *(priority group unavailable)*

1. Select a customized layout from the pop-up window, or click ⚙ next to Customized.

   For a layout without blank space, we recommend using **4-inputs (1T-F+3B)**.



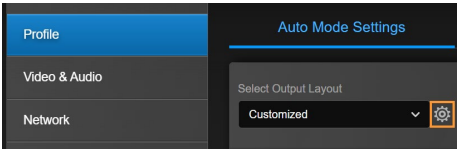
T = Top

L = Large

B = Bottom

F = Full screen (no blank space)

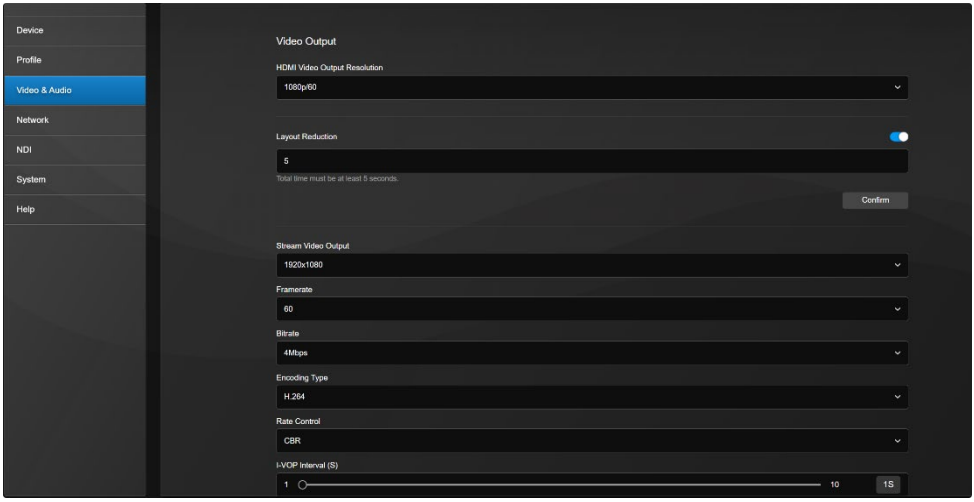
2. Assign one, multiple, or all groups to each grid using the drop-down lists.
   - Newly assigned grids display “Group Assigned” or “All.” Displaying group names are unavailable at this time.
   - When a channel is muted, the next active channel takes its assigned grid.
3. When finished, click **Set**.
4. To edit a customized layout and re-assign groups, click ⚙ next to Customized.



5. (Optional) To disable human tracking for a specific grid, go to **Profile** > **Auto Mode Settings** > select the grid’s group > set every channel’s human tracking to **Off**.

System Settings

Video & Audio



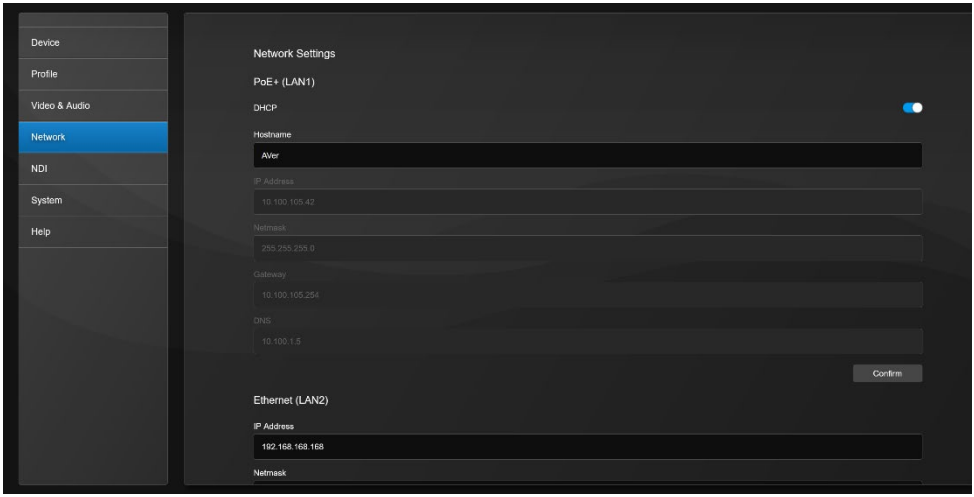
Video Output

Item	Description
HDMI Video Output Resolution	Choose a video output resolution.
Layout Reduction	When toggled on, the matrix box hides inactive channels to reduce the number of layout grids after the delay time you set.
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 RTMP Streaming 2	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**. 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

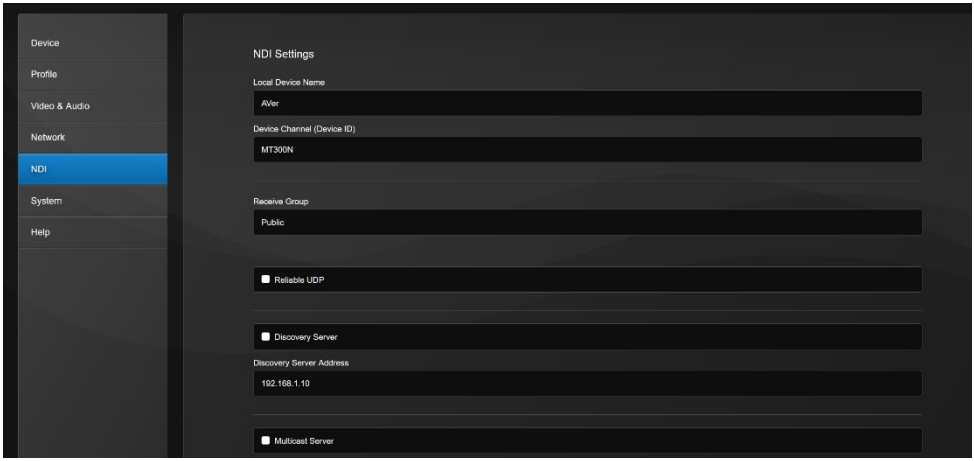
Item	Description
Stream URL	Configure HTTP Live Streaming (HLS) settings to provide adaptive bitrate streaming, which ensures smooth playback and minimizes buffering. 1. Enter the stream URL obtained from the streaming service or server. 2. Click **Start Stream** to start streaming, **Stop** to stop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

NDI

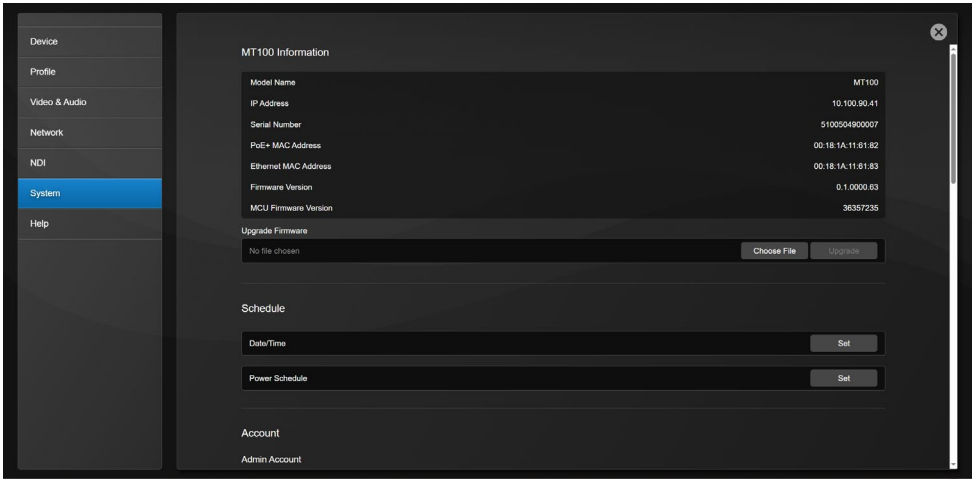
Network Device Interface (NDI) protocol transmits high-quality, low-latency video and audio streams over IP networks.



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

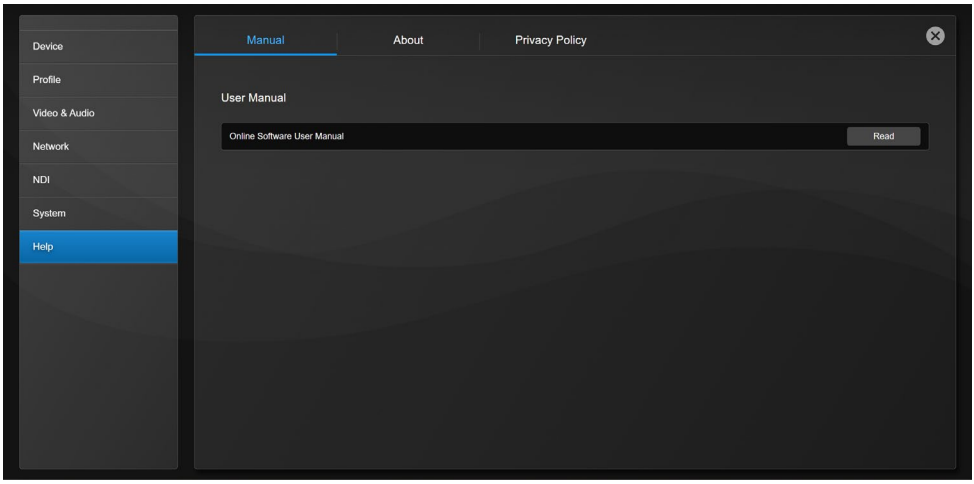
	distribution of NDI streams to multiple receivers without overwhelming the network.
Multicast Server Address	Enter the IP address of a group of recipients that receive NDI streams from a multicast server.
Multicast Server Mask	Enter the network mask to specify the range of IP addresses that are eligible 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
  MT100S Matrix Tracking Box
  MT300 Matrix Tracking Box
  MT300N Matrix Tracking Box

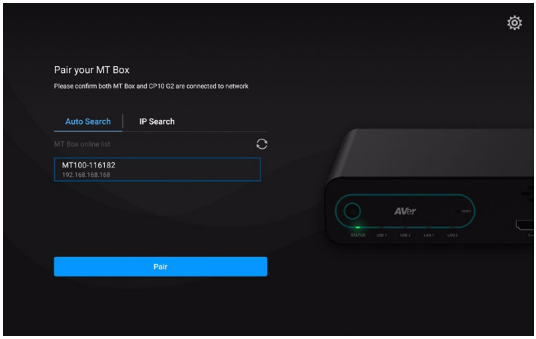
Install MT Control Panel

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.

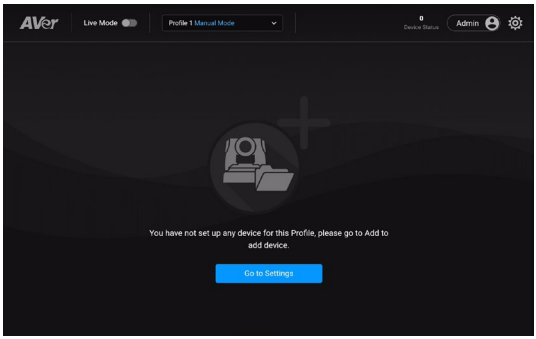
Note: For iPadOS and iOS, please download AVer Control Panel. This app gives you access to the same settings as the web interface.

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.



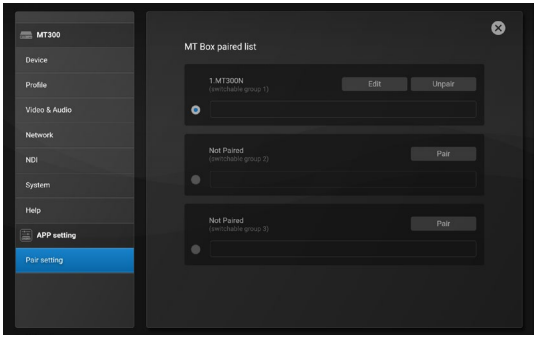
4. You will now be logged in to the matrix box.
   Configure settings as you would on its web interface.



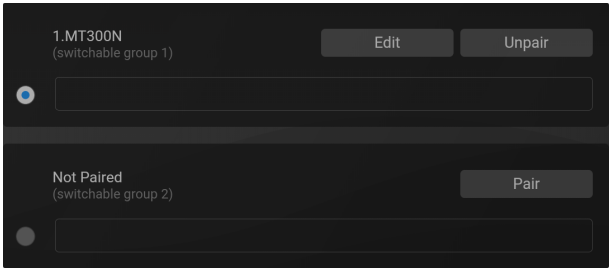
Add and Switch between Matrix Boxes

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.

Troubleshoot

Using non-AVer cameras.

When using non-AVer cameras, only Live Mode and Manual Mode are available. Auto Mode (voice tracking) and camera control are not supported.

The device is optimized for AVer equipment. Performance with third-party cameras is not guaranteed.

No human tracking.

- Make sure your camera supports human tracking. For supported AVer devices, refer to <Supported AVer Devices>.
- If your camera is connected via HDMI, make sure you select **Control via IP**.
  Hover over the device in the device list and click the **Pencil** icon to edit.

Camera is too sensitive and flickering between presets.

- Select a longer duration for Time to Trigger Preset.
- If you camera is shared among several camera and microphone groups, assign a priority group.

Stop voice-tracking.

- Click the **voice tracking** icon on the main page to pause voice tracking for the current profile.
- Mute the microphone by pressing its physical button or accessing its web interface.
- Use the toggle switch on the Select Group Panel to disable the group.
  Single video output: Audio is muted while video is still transmitting.
  Multiple video output: Both audio and video stop transmitting.

Appendix

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

Supported Microphones (MT100S Only)

Important Note on Voice Tracking Installation

When installing voice tracking systems, consider the environment, materials, and distances to ensure optimal performance. Assess the room size, layout, and acoustics, as these factors impact accuracy. Different surfaces affect sound reflection and absorption, influencing effectiveness. Measure and maintain appropriate distances between devices and the coverage area for clear tracking. To achieve the best experience, connect with an AVer technical expert who can tailor the installation to your specific needs.

Note:

- Third-party microphone systems may require setup in their manufacture software.
- Make sure you have turned on **Multicast** on the router before setting up your microphone.

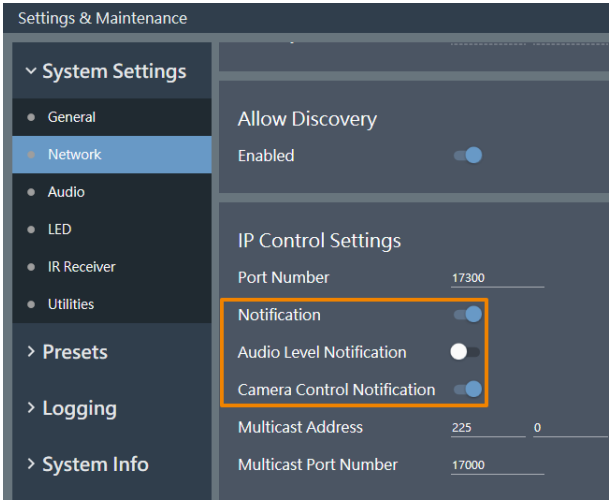
Audio-Technica

> ATND1061DAN, ATND1061LK
>
> ATUC-50
>
> ATUC-IR

To set up ATND1061 Beamforming Ceiling Array Microphone:

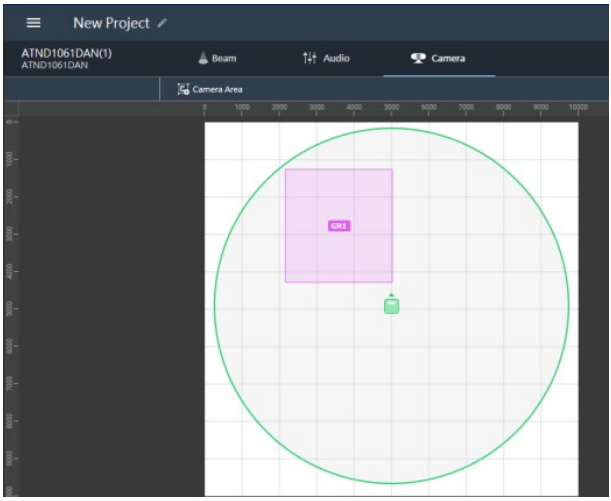
1. Open Digital Microphone Manager. Go to **Settings & Maintenance** > **System Settings** > **Network** > **IP Control Settings**.

2. Turn on **Notification** and **Camera Control Notification**.



3. Select a microphone in the main area.

4. Go to **Camera** > **Camera Area**. Add a Camera Area by dragging it within the microphone pickup area. Each Camera Area group corresponds to MT100S channel 1-8.

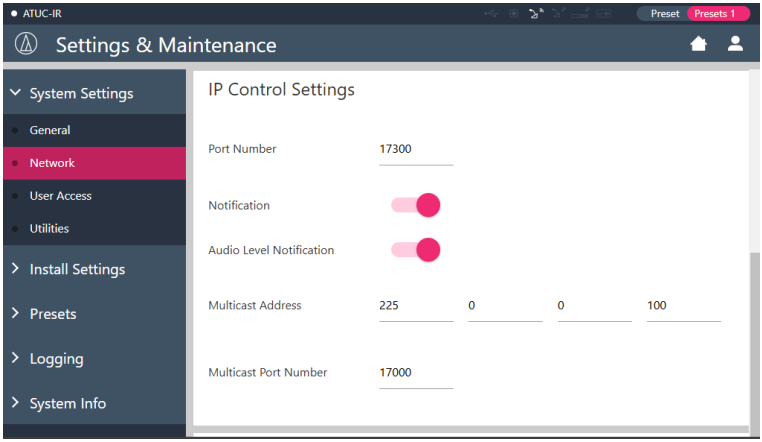


To set up ATUC-IRCU infrared control unit:

1. On the ATUC-IRCU Web Remote interface, go to **Settings & Maintenance** > **System Settings** > **Network** > **IP Control Settings**.

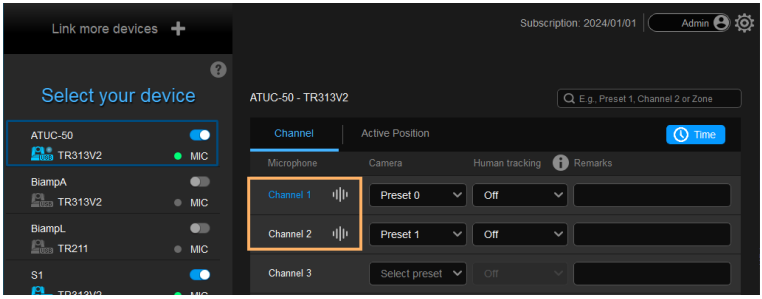
2. Turn on **Notification**.

> **Note:** If a powered-off ATUC-IRDU appears to be sending audio signal in MT100S, turn on **Audio Level Notification** to resolve the issue.



Pairing ATUC-50 with AVer camera presets for voice tracking :

- Each ATUC-50DU or ATUC-IRDU discussion unit corresponds to an MT100S channel.
- A discussion unit whose talk button is pressed first takes priority over others until it is mute. For example, Channel 1 (pressed first) takes priority over Channel 2 whose talk button is also pressed.



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,

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	deviceTbCamDid: camera ID

	Address]/request=ptzRightStart&camDid=[deviceTbCamDid]&camView=[camView Index]	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 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), ...

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.

VISCA over IP

PORT

Internet protocol	IPv4
Transport protocol	UDP
Port address	52381

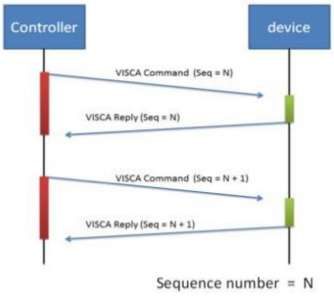
FORMAT

	byte 0	byte 1	byte 2	byte 3	byte 4	byte 5	byte 6	byte 7	byte8 ~~~ byte23
func	Payload type		Payload length		Sequence number				Payload (1 to 16 bytes)
data	Value1	Value2	1~16 (0x0001~0x0010)		0X00000000 ~ 0XFFFFFFFF				VISCA Packet (see page VISCA)

Payload type

Name	Value1	Value2	Description
VISCA command	0x01	0x00	Stores the VISCA command.
VISCA inquiry	0x01	0x10	Stores the VISCA inquiry.
VISCA reply	0x01	0x11	Stores the reply for the VISCA command or VISCA inquiry

Sequence number



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 MT100