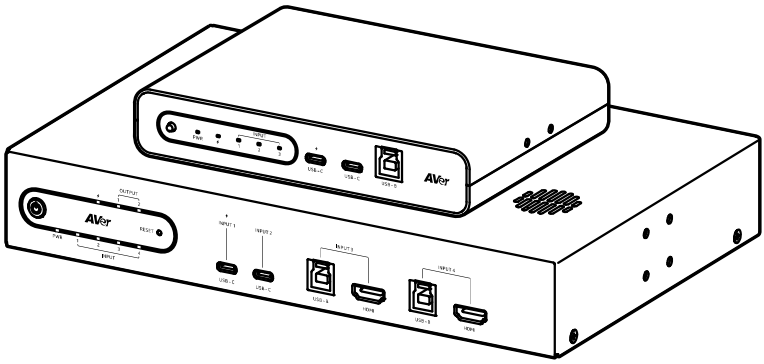

HUB35-EXT35

4K BYOM Matrix Switcher

— 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.

PSTI Statement of Compliance

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

Caution

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

Caution

The output of I/O (JXX) port exceeds 100VA, and the terminal connection equipment must provide a fire enclosure.

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。

（注）本製品同梱の電源ケーブルは本製品同梱の電源アダプタでのみ使用してください。本製品同梱の電源ケーブルは他の電気機器では使用できません。

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

USA
Download Center: https://www.averusa.com/pro-av/support/
Technical Support: https://averusa.force.com/support/s/contactsupport

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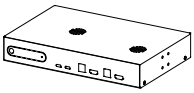
Tel: +82 (0) 2 722 8535

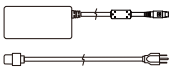
Contents

Overview

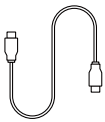
Package Contents



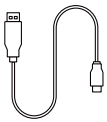
HUB35



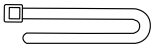
Power Adapter & Power Cord



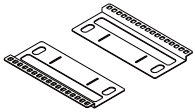
USB-C to USB-C 3.1 Cable (2 m / 6 ft)



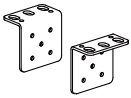
USB-A to USB-B 3.0 Cable (1.5 m / 4.92 ft)



Cable Tie (x18)



Cable Fixing Plate (x2)

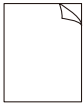


Rack Mount Bracket (x2)

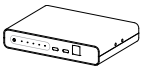
3-Pole Terminal Block

M3 x 5.0 mm Truss Head Screw (x8)

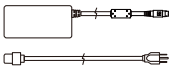
M3 x 10 mm Screw (x4)



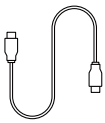
Quick Start Guide



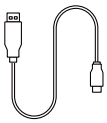
EXT35



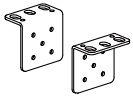
Power Adapter & Power Cord



USB-C to USB-C 3.1 Cable (2 m / 6 ft)



USB-A to USB-B 3.0 Cable (1.5 m / 4.92 ft)

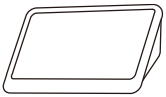


Rack Mount Bracket (x2)

M3 x 5.0 mm Truss Head Screw (x4)

M3 x 10 mm Screw (x4)

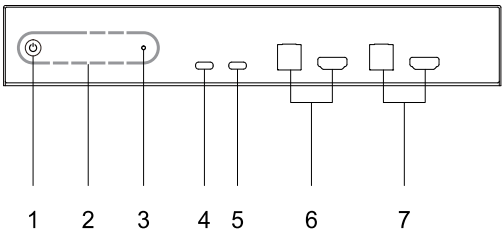
Optional Accessories



CP10 G2
Collaboration Touch
Panel

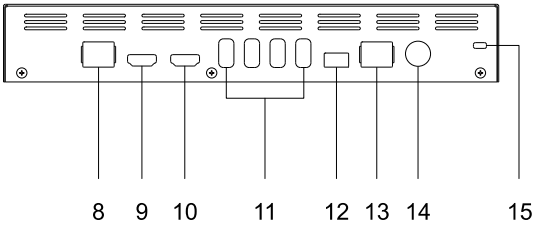
Parts Info

- **HUB35**



Front View

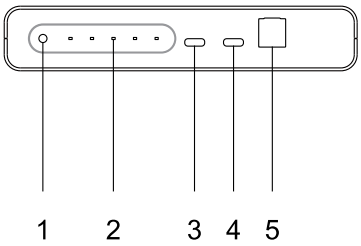
1. Power Button
2. LED Indicators
3. Reset Hole
4. Input 1: USB-C 3.0 Port with Charging
5. Input 2: USB-C 3.0 Port
6. Input 3: USB-B 3.0 / HDMI Ports
7. Input 4: USB-B 3.0 / HDMI Ports



Rear View

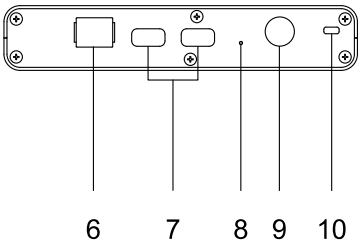
8. Link to Extender Port
9. HDMI® Output Port 1
10. HDMI Output Port 2
11. USB-A 3.0 Ports
12. RS-232 Port
13. Ethernet Port
14. DC Power Jack
15. Kensington Lock

- **EXT35**



Front View

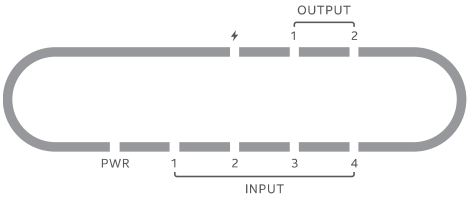
1. Power Button
2. LED Indicators
3. Input 1: USB-C 3.0 Port with Charging
4. Input 2: USB-C 3.0 Port
5. Input 3: USB-B 3.0 Port



Rear View

6. Link to Hub Port
7. USB-A 3.0 Ports
8. Reset Hole
9. DC Power Jack
10. Kensington Lock

LED Indicators

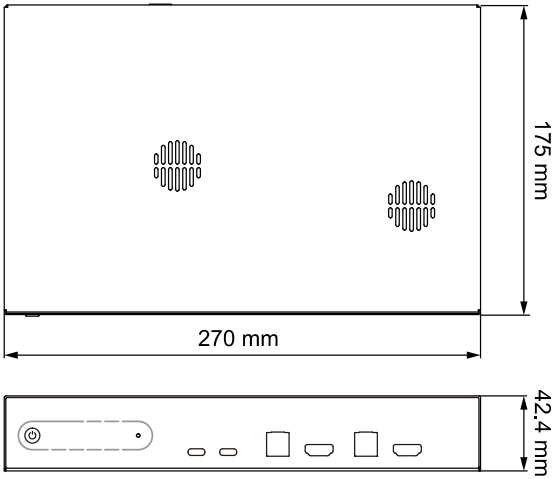


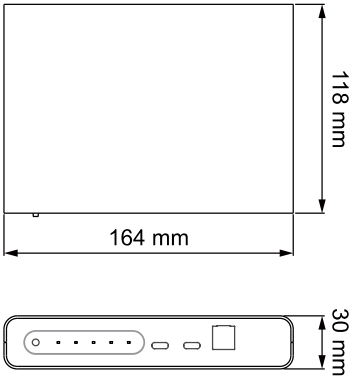
HUB35

EXT35

LED	Color	Status
Power	Solid green	Operational
	Solid orange	Standby
	Flashing green	Firmware update
	Flashing orange	Factory reset
USB-C charging	Solid green	Charging
Input 1-4	Solid green	Connected
Output 1-2	Solid green	Connected

Dimensions





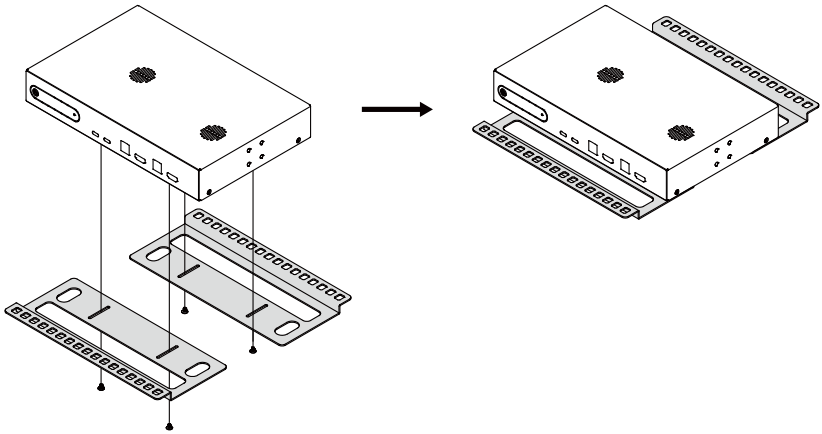
Installation

Cable Fixing Plate Installation

1. Secure the cable fixing plate to the device with the included M3 x 5.0 mm screws (x4).

2. Connect the cables.

3. Use the cable ties to secure the cables and cable fixing plate.

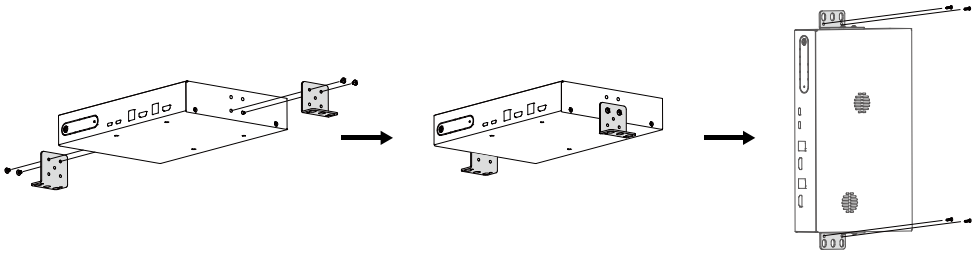


Rack Mount Bracket Installation

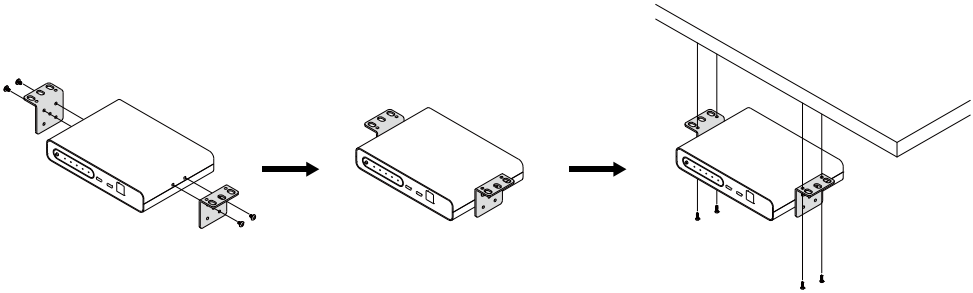
1. Secure the rack mount brackets on the device with the included M3 x 5.0 mm screws (x4).
2. Install the rack mount brackets and device on the wall or under the desk with the included M3 x 10 mm screws (x4).

> **Note:** Make sure the fan vents aren't blocked.

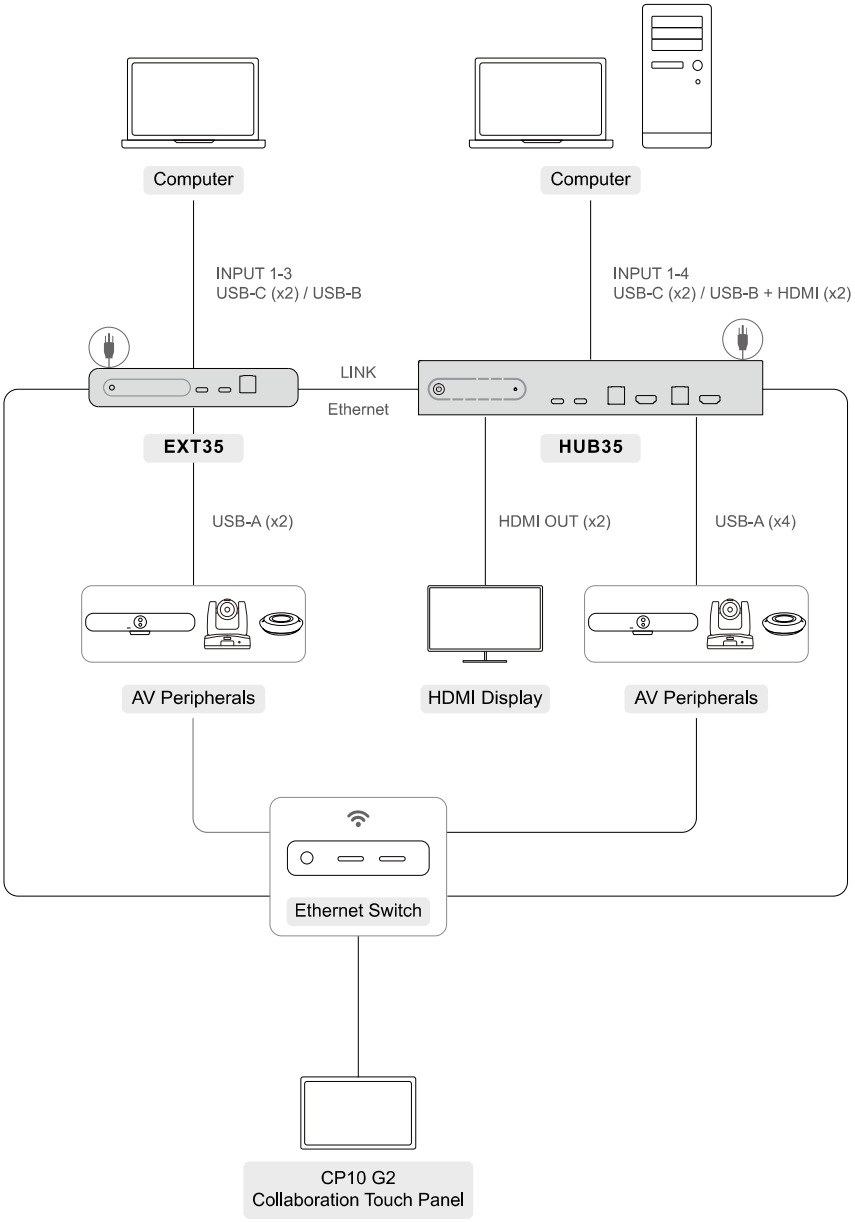
- **HUB35 – Wall Mount**



- **EXT35 – Desk Mount**



Connections



- **HUB35**

Port	Description
Input 1: USB-C 3.0 Port with Charging	Connect to a Bring Your Own Meeting (BYOM) laptop or room PC with charging up to 100W.
Input 2: USB-C 3.0 Port	Connect to a BYOM laptop or room PC.
Input 3: USB-B 3.0 / HDMI Ports	
Input 4: USB-B 3.0 / HDMI Ports	
Link to Extender Port	Connect to EXT35 using a Catx Ethernet cable. Refer to <Catx Cable Range Specifications>. **Note:** When using the link port, if you encounter interference, use a shielded Catx Ethernet cable.
HDMI Output Port 1	Connect to an HDMI display or projector. The HDMI output supports up to 4K@60 Hz.
HDMI Output Port 2	Connect to an HDMI display or projector. The HDMI output supports up to 4K@60 Hz.
USB-A 3.0 Port (x4)	Connect to audio and video peripherals.
RS-232 Port	Connect to a control processor using the included 3-pole terminal block.
Ethernet Port	Connect to an Ethernet port to access the device web interface or pair with CP10 G2 Collaboration Touch Panel.
DC Power Jack	Connect to a power source using the included power adapter and power cord.

- **EXT35**

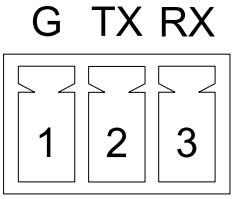
Port	Description
Input 1: USB-C 3.0 Port with Charging	Connect to a BYOM laptop with charging up to 60W.
Input 2: USB-C 3.0 Port	Connect to a BYOM laptop.
Input 3: USB-B 3.0 Port	
Link to Hub Port	Connect to HUB35 using a Catx Ethernet cable. Refer to <Catx Cable Range Specifications>. **Note:** When using the link port, if you encounter interference, use a shielded Catx Ethernet cable.
USB-A 3.0 Port (x2)	Connect to audio and video peripherals.
DC Power Jack	Connect to a power source using the included power adapter and power cord.

Catx Cable Range Specifications

Cable Type	Link Rate	Range - Typical
Cat6a (U/FTP)	6 Gbps symmetrical	100 meters (straight) 90 meters (with patches)
Cat6 (UTP)	6 Gbps symmetrical	70 meters (straight) 70 meters (with patches)
Cat5e (UTP)	6 Gbps symmetrical	50 meters (straight) 50 meters (with patches)

RS-232 Pinout

The device provides a 3-pole Phoenix® connector for bi-directional serial communication. The signal levels are the following:



	Output voltage (V)
Logic low level	3 to15
Logic high level	-15 to -3

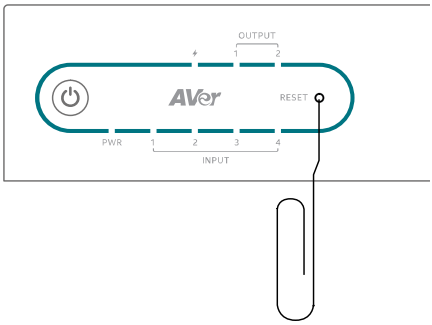
Get Started

Power Your Device

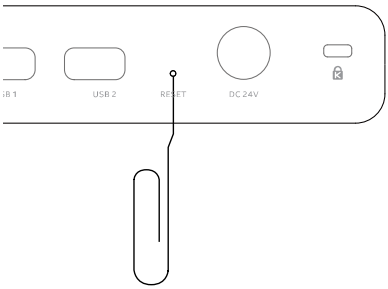
The device automatically powers on when connected to power. No need to press the **power** button . Press and hold for 5 seconds to enter Standby Mode. Press once to wake up.

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.



HUB35



EXT35

Factory Default Settings

IP address	DHCP
Hostname	• [Model name]-[last 6 digits of MAC Address] *Example: HUB35-3a8292* • Find the MAC address on the bottom or rear of the device.
Web interface login	admin/admin
Display control	Disabled
Input/output source mode	Single - Duplicate

System Requirements

- Windows 10 or later
- macOS 13.5 or later
- DisplayLink driver compatible with your version of Windows or macOS

> **Note:** To download the latest or legacy drivers, visit the Synaptics website. Installing a newer version will overwrite the existing one.

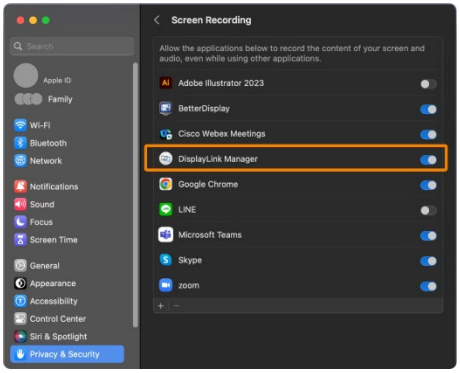
Install the DisplayLink Driver

- **Windows**

1. Download the DisplayLink driver from the Synaptics website.
2. Follow the on-screen instructions to install the driver. During this process, screen sharing may be briefly unavailable and resumes in about **3 minutes**.
3. DisplayLink automatically turns on when the system allows multiple monitor displays.

- **macOS**

1. Download the DisplayLink driver from the Synaptics website.
2. Follow the on-screen instructions to install the driver. During this process, screen sharing may be briefly unavailable and resumes in about **3 minutes**.
3. Permit DisplayLink Manager to record your screen.
   DisplayLink Manager needs screen recording permission to enable extended displays on macOS. This permission does not mean DisplayLink will record or transmit your screen content.



Supported AVer Peripherals

Note:

- Supported peripherals:
  - The HUB35-EXT35 transmits video over IP or USB, and audio over USB only.
  - For audio peripherals, use USB + IP if you want remote control features like mute, unmute, and volume adjustment from the HUB35-EXT35.

- Unsupported peripherals: The HUB35-EXT35 functions solely as a USB hub and does not provide video or audio control.

Professional Tracking Cameras

TR211
TR315
TR315N
TR335
TR335N
TR535
TR535N
TR311HWV2
TR313V2
TR323V2
TR323NV2
TR333V2
TR615
PTC310HWV2
PTC310UV2
PTC320UV2
PTC320UNV2
PTC330UV2

Professional PTZ Cameras

PTZ211
PTZ231
PTZ310UV2
PTZ310UNV2
PTZ330UV2
PTZ330UNV2

Video Conferencing Cameras

CAM520 Pro3
CAM550
CAM570
VB342 Pro (no ConnnectAI)
VB350

Video Conferencing Speakerphone (no ConnnectAI)

FONE540
FONE700

Matrix Tracking Box (no ConnnectAI)

MT100
MT300
MT300N

Last updated: April, 2026

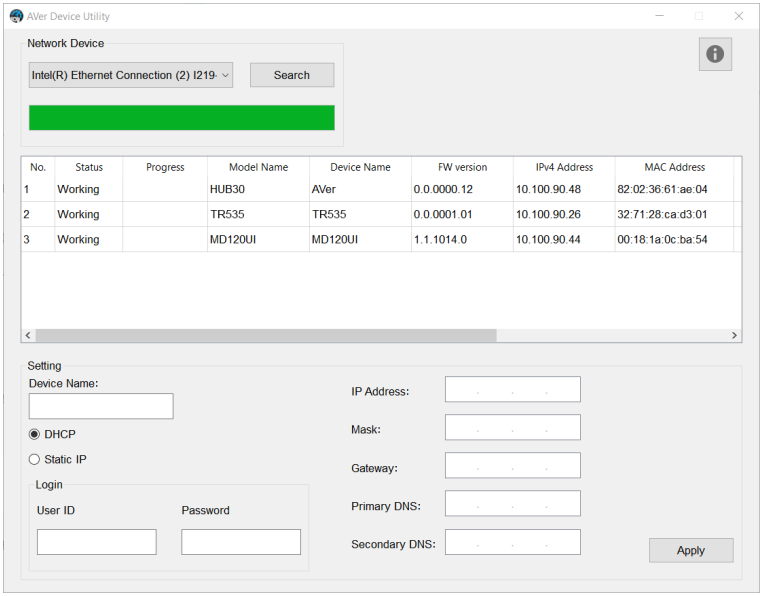
Access the Web Interface

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

Note:

- The device's default network is DHCP.
- The default username and password is **admin**/**admin**.

AVer Device Utility



To access the web interface:

1. Download and install AVer Device Utility to your computer from AVer Download Center (https://www.aver.com/download/device-utility) 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.

Note:

- If the DHCP server fails to assign an IP after several attempts, the device defaults to 192.168.1.168. Multiple devices will be assigned random IPs within 192.168.1.1 - 192.168.1.254.
- To troubleshoot, make sure your DHCP server is running. Then disconnect and reconnect the LAN cable.

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.

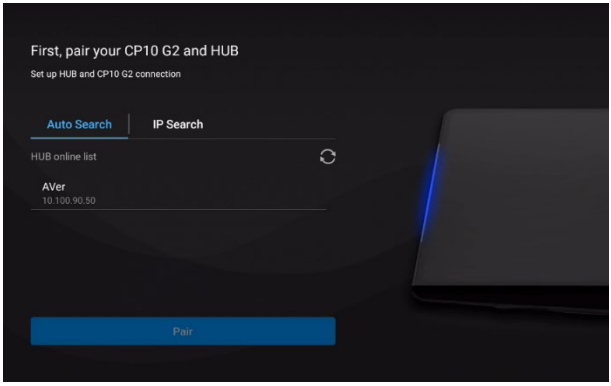
- Username: Use 1-32 characters.
- Password: Use 8-32 characters and a combination of uppercase letters, lowercase letters, and, numbers. Symbols (!$%'()*+,-./<=>?@[\]^_{}~) are optional.

Pair with AVer CP10 G2 Collaboration Touch Panel (Optional Accessory)

1. On the CP10 G2, tap **BYOM Controller**.

2. The CP10 G2 will auto search for available devices. Or tap **IP Search** and enter your device's IP address.

> **Note:** CP10 G2 and your device must be on the same LAN.



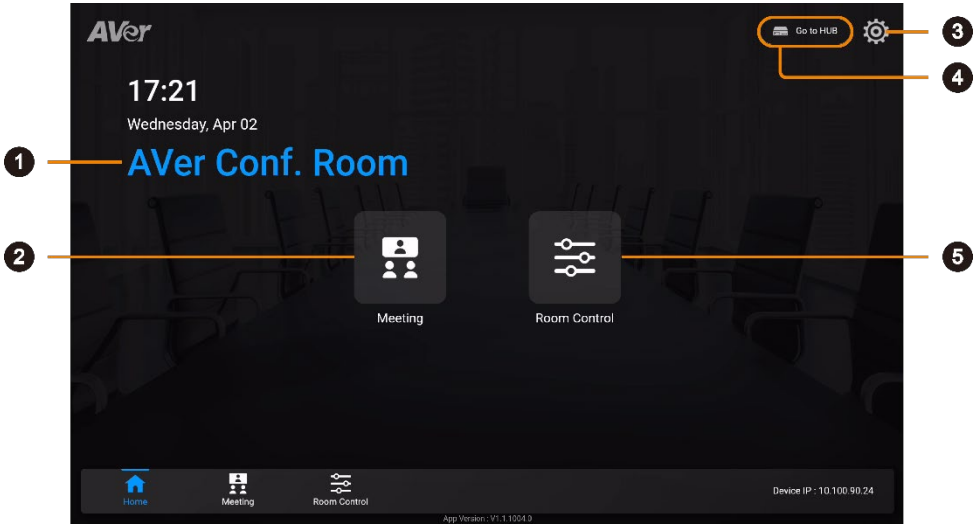
3. Tap to select your device, tap **Pair**, then enter the username and password to start pairing.

Use Your Device

Homepage

You can switch inputs/outputs, rearrange displays, control added AVer peripherals, and enable ConnectAI for dynamic framing during meetings.

Note: The device's web interface and the BYOM Controller app on the paired CP10 G2 share the same user interface.



1. **Room Name**

   To change the room name, go to **Go to HUB** > **Settings** > **General**.

2. **Meeting**

   Share screen wirelessly via LAN with AVer Room Management software.

   Select up to 2 out of 7 input sources, switch Inputs/outputs, and rearrange displays.

3. **CP10 G2 Collaboration Touch Panel Settings (CP10 G2 only, optional accessory)**

   Configure CP10 G2 settings. Refer to the user manual for CP10 G2.

4. **Go to HUB**

   Add AVer peripherals and configure hub settings.

5. Room Control

Control added AVer peripherals and select how video is sent to your video conferencing software. Room Control is currently available for AVer peripherals only. Please refer to <Supported AVer Peripherals>.

Share Screen

- **Wired**

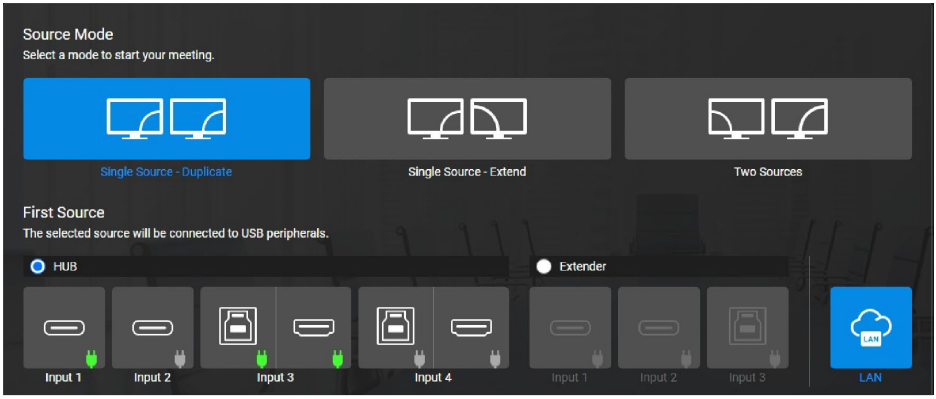
  To share your computer screen, connect your computer to an input port using a USB-C, USB-B or HDMI cable, then connect an HDMI display to an HDMI output port using an HDMI cable.

  Note: To connect via USB-C, make sure your computer supports DisplayPort Alternate (DP Alt) Mode. Look for the DisplayPort logo or check your device specifications to confirm compatibility.

- **Wireless via AVer Room Management software**

1. Connect an HDMI display to an HDMI output port using an HDMI cable.
2. On the device's web interface or the CP10 G2, go to **Meeting** > select **Single Source – Duplicate** as source mode and **LAN** as first source.

   Note: When screen sharing with via LAN connection, only **Single Source – Duplicate** mode is supported.

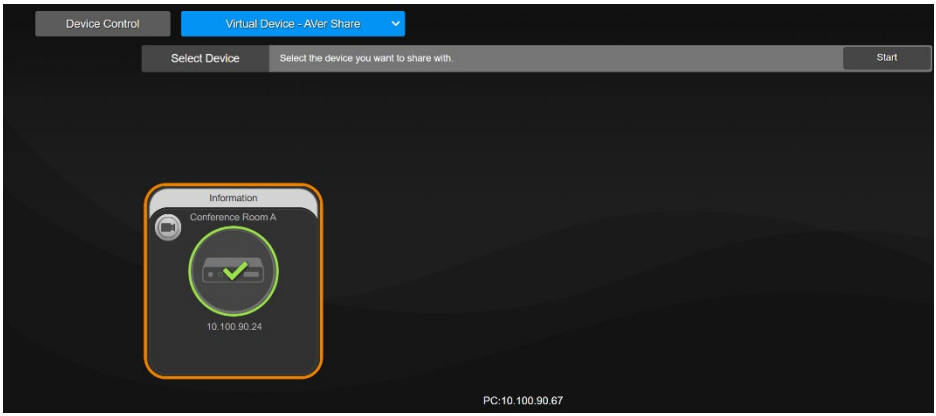


3. Download and install Room Management to your computer from AVer Download Center (https://www.aver.com/download-center) and open the software.

   Note:
   - Make sure your device is connected to a network.
   - Room Management and your device must be on the same LAN.

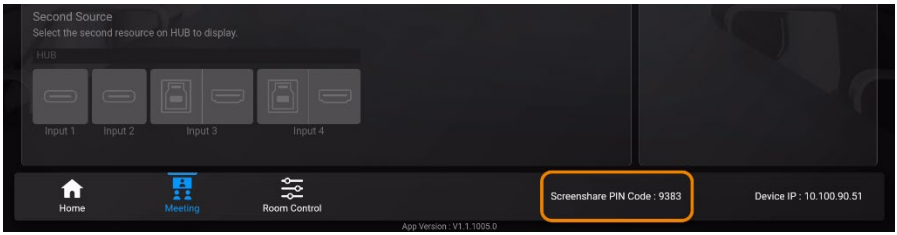
4. Go to **Virtual Device** > select **AVer Share**.

5. Select a device to connect. Click **Start**.



6. Enter the pin code (if any), then click **Confirm**.

- By default, **Screenshare PIN Code** is turned off and no pin code is required. When it's turned on, you can view the pin code on bottom of the device's web interface or the CP10 G2.

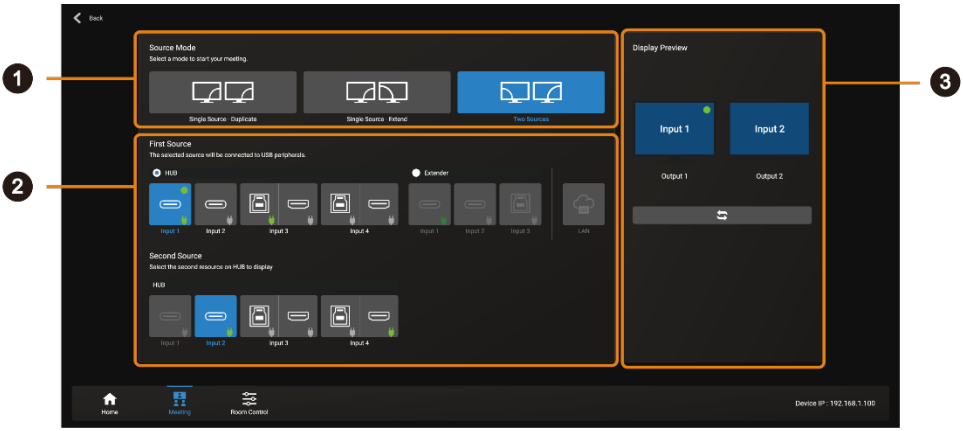


- To set up a pin code, on the device's web interface or the CP10 G2, go to **Go to HUB** > **System** > **Screenshare PIN Code**.

Switch Inputs/outputs and Rearrange Displays

Choose a display option, select your first and second input sources, and rearrange displays.
To switch inputs/outputs and rearrange displays, on the homepage, go to **Meeting**.

Meeting Overview



Important: Before you start, make sure you have installed the DisplayLink driver to enable extended displays. Please refer to <Install the DisplayLink Driver> for more information.

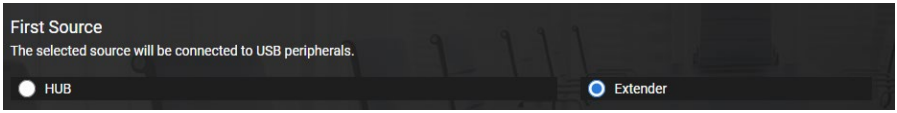
1. **Source Mode**

   Change what shows on your displays.

If you want to	Choose
See the same thing on all your displays.	Single Source - Duplicate
See your desktop across all your displays. When you have displays extended, you can move items between your computer and the two screens.	Single Source – Extend *Connect two HDMI displays to enable this mode.* *A total of 3 displays are available: your computer and two HDMI displays.*
See two inputs, one on each display.	Two Sources *Connect two HDMI displays to enable this mode.*

2. **Input Sources**

- Switching between Hub and Extender as the first input source may temporarily disconnect the display and take some time to reconnect.



- Select up to 2 input sources.

	Can be selected
	Selected
	Source is connected
	Selected, and UVC signals can be routed to the connected input source

3. **Display Preview**

Use the **switch** button to rearrange displays.

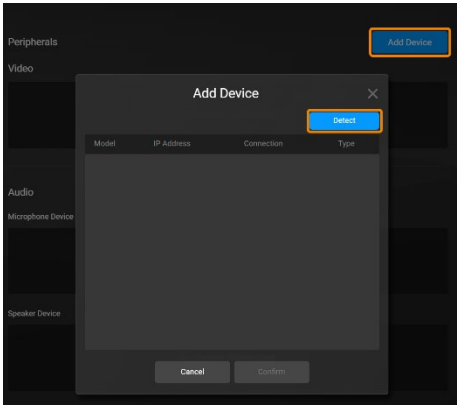
Video Conferencing

Control Peripherals in Room Control

Control added AVer peripherals remotely and select how to send video to your video conferencing software. Room Control is currently available for AVer peripherals only. Please refer to <Supported AVer Peripherals>.

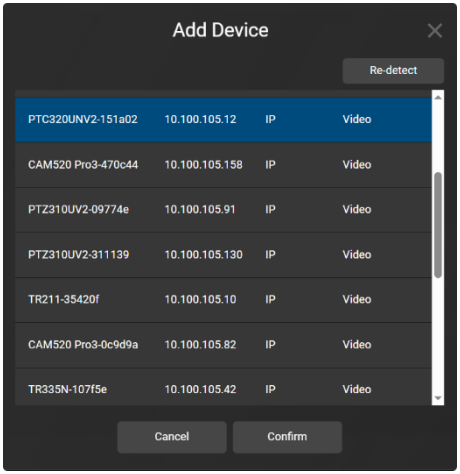
To add AVer peripherals:

1. Make sure the device and the AVer peripherals you want to add are on the same LAN.
2. On the homepage, go to **Go to Hub** > **Peripherals**.
3. Click **Add Device**, then click **Detect**.



4. Click to select the peripherals you want to add, then click **Confirm**.

   The peripheral name is [Model name]-[last 6 digits of MAC Address].



5. Enter the account, password, and a name to help you identify the device.
6. Click the **X** icon to return to the homepage, then go to **Room Control** to control added peripherals.

Room Control Overview

1. **Lens Type (Dual-lens models only)**

   Select PTZ Lens or Wide-Angle Lens.

2. **Camera Live View**

3. **PTZ Control Panel**

   - Pan, tilt and zoom controls
   - Reset pan-tilt position to the center
   - Tracking toggle

     CAM and VB series toggle on to Auto Frame, while the other cameras toggle on to the selected tracking mode on the camera's web interface. Refer to your camera's user manual for tracking settings.

4. **Camera Preset**

   Click to load a preset. Define presets on the camera's web interface.

5. **Microphone and Speaker Control**

   Requires USB + IP connections.

6. **Streaming Output**

   Select how video is sent to your video conferencing software—using a USB camera, an IP camera, or AI-powered framing with ConnectAI.

If you want to	Choose
Use USB-connected audio/video peripherals as your video and audio source.	Device Pass-through (default) Enable **Direct Camera Access** to let the conferencing device detect the USB camera directly.
Use an IP-connected camera as your video source.	Manual Select
Use AI-powered framing with two supported AVer cameras installed at te front and back of the room.	ConnectAI

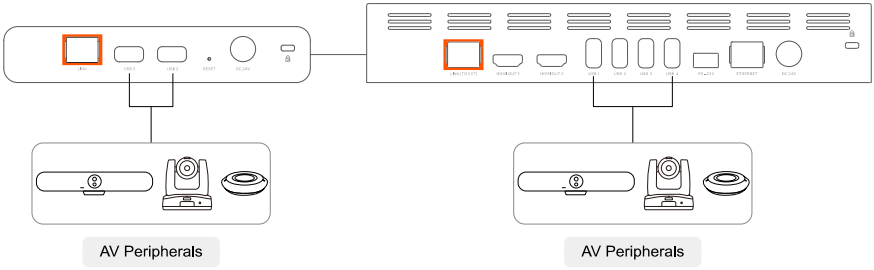
Device Pass-through

Device Pass-through lets you use USB-connected audio/video peripherals. When selected, the HUB35-EXT35 functions as a USB hub, and IP-connected cameras to the hub are unavailable to the video conferencing software.

To set up Device Pass-through:

1. Go to **Room Control** > **Streaming Output** > select **Device Pass-through**. Enable **Direct Camera Access** to let the third-party wireless presentation systems (e.g., Barco) directly detect the USB camera.

2. Connect the computer to an input port, and the audio/video peripherals to the USB-A ports.



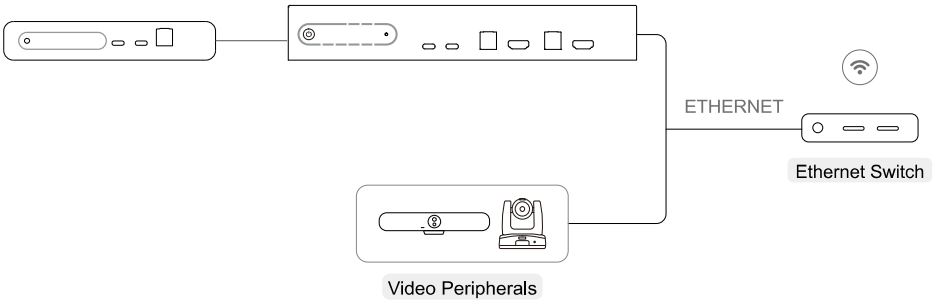
3. Open your video conferencing software and both the HUB35 and USB-connected audio/video peripherals (e.g., AVer TR315, AVer FONE540) will appear. Select the peripherals you want as **audio** and **video**.

Manual Select

Manual select lets you use an IP-connected camera as your video source.

To set up Manual Select:

1. Make sure the device and the cameras you want to add are on the same LAN.



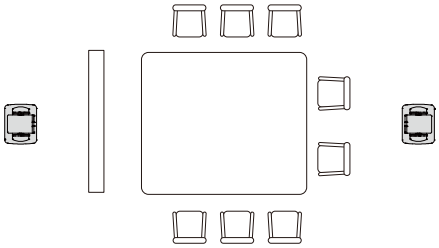
2. Follow the instructions in <Room Control> to add cameras over IP.
3. Go to **Room Control** > **Streaming Output** > select **Manual Select** > select an IP-camera you want to use from the drop-down list.
4. Open your video conferencing software and select the HUB35 as **video**.

ConnectAI

ConnectAI uses two supported AVer cameras to dynamically create a close-up frame for up to 6 participants or frame the entire group on screen. Ideal for video calls in medium or huddle rooms.

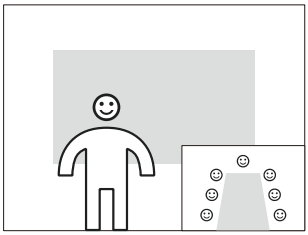
Senario – Presentation

- Two AVer supported cameras are set up at the front and the rear of the room.



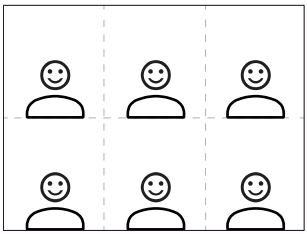
- Define up to 4 presets to frame and follow the presenter.
- When a presenter is detected at the front, ConnectAI creates a picture-in-picture (PiP), with the presenter in the large video and the participants in the small video.

With presenter

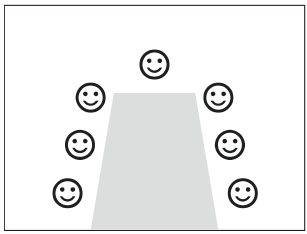


- When no presenter is detected at the front, ConnectAI creates a close-up frame for up to 6 participants or frames the entire group of 7 or more participants on screen.

No presenter



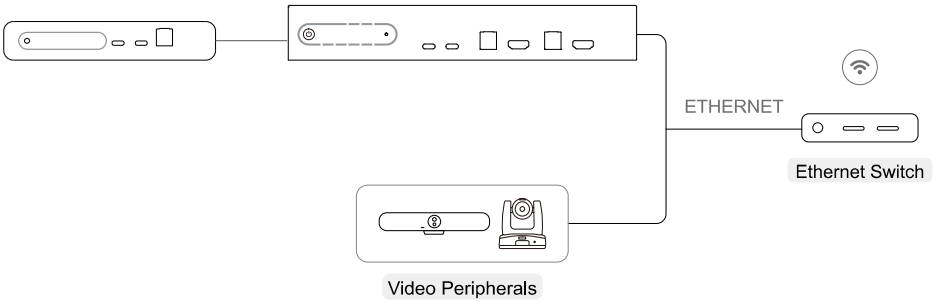
≤ 6 participants
Smart Composition



> 6 participants
SmartFrame

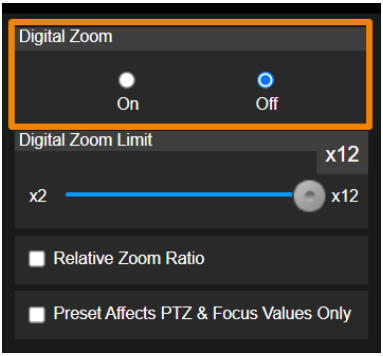
To set up ConnectAI:

1. Make sure the device and the cameras you want to add are on the same LAN.



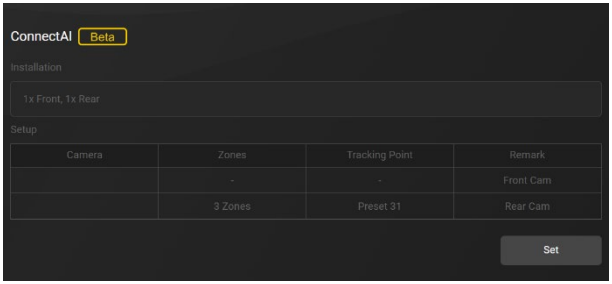
2. Follow the instructions in <Room Control> to add cameras over IP.
   For the following cameras, open the camera's web interface, go to **Live View** > Turn off **Digital Zoom**.

TR211	PTZ211
TR315	PTZ231
TR315N	PTZ310UV2
TR335	PTZ310UNV2
TR335N	PTZ330UV2
	PTZ330UNV2

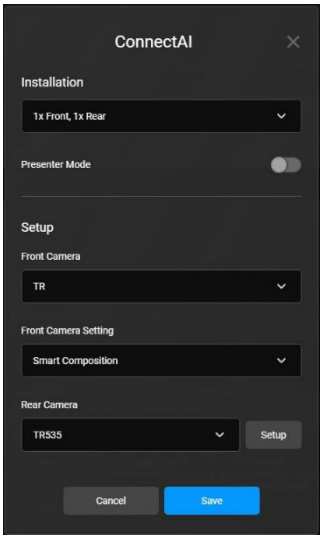


3. Go to **Room Control** > **Streaming Output** > select **ConnectAI**.

4. Go to **Settings** > click **Set** to configure settings.

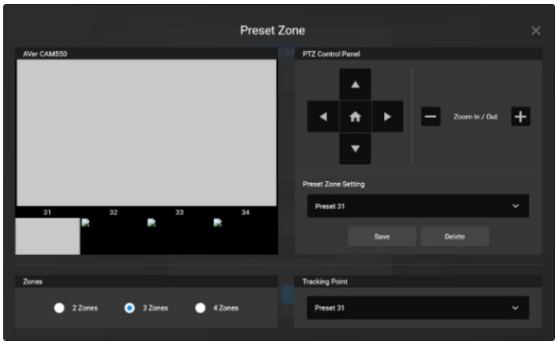


5. Select the front or rear camera, then click **Setup** to define the default position for the rear camera.



6. For the Front Camera Setting, choose one of the following modes: **Smart Composition, Smart Framing,** or **Preset Point**. If Preset Point is selected, you will be directed to the Front Cam Setup page to configure and save the preset using the live view control panel.
   Click **Setup** to define presets for the rear camera.

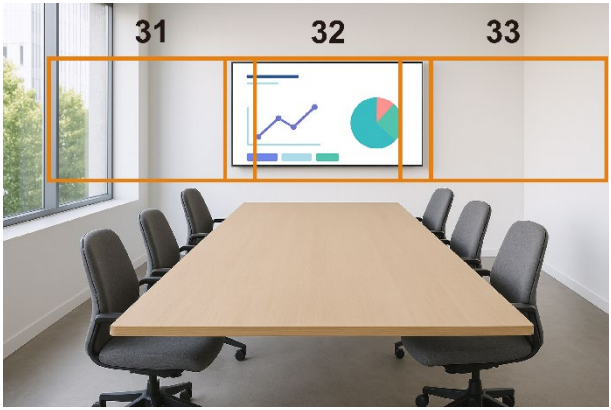
7. Select the number of **Zones** (presets) you want to track.



8. Select the presets you want to save from **Preset Zone Setting**. Presets 31–34 are available.

2 Zones	3 Zones	4 Zones
Preset 31, 32	Preset 31, 32, 33	Preset 31, 32, 33, 34

9. Use pan, tilt and zoom controls to position your camera and click **Save** to save that position. A thumbnail will appear in the preview. Repeat these steps for all presets.



Note: Define overlapping presets from left to right for a smooth transition. When the presenter exits the previous preset, the camera will follow and move to the next preset.

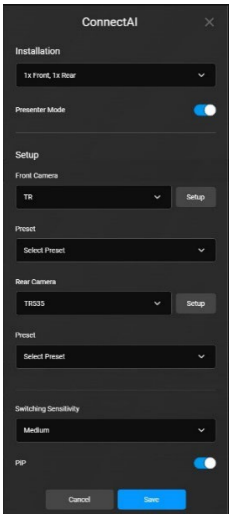
10. Select a **Tracking Point** as the starting point to frame and follow the presenter, then close the window. ConnectAI will start immediately.

Presenter Mode

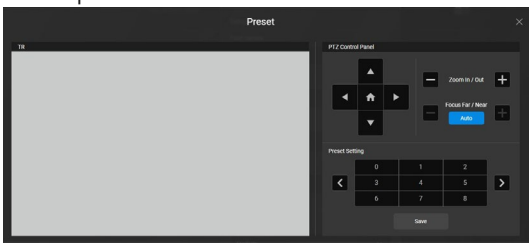
Enable Presenter Mode to automatically select the most front-facing camera for the best view. This feature supports up to two participants. If more than two people are detected, the system will keep the current layout and stop automatic switching.

To set up Presenter Mode：

1. Go to **Settings** > **ConnectAI** > click **Set** to configure settings.
2. Enable **Presenter Mode** to automatically select the camera with the best front-facing view and switch it to the main PiP window when two participants are detected.



3. Select the **Front** and **Rear** cameras, then click **Setup** to configure their **Presets**.
4. Use pan, tilt and zoom controls on the PTZ control panel to position your camera and click **Save** to save that position.



5. Adjust the Switching Sensitivity to control the speed of camera transition.
6. Toggle the PiP function on or off.

Customize Background Signage

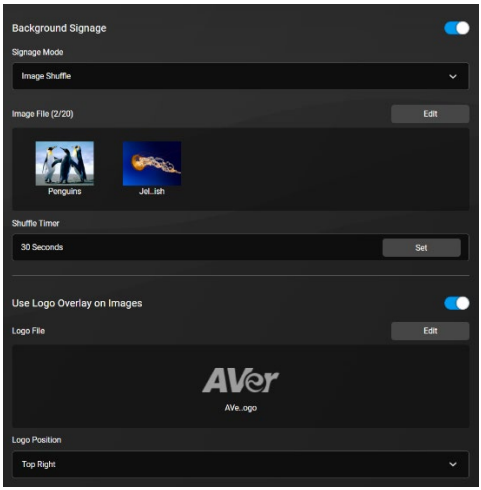
Upload Images and Videos

When no input source is connected, the HDMI output displays custom images and logos for welcome messages or announcements.

To customized Background Signage:

1. On the homepage, go to **Hub** > **Settings**

2. Toggle on the Background Signage.

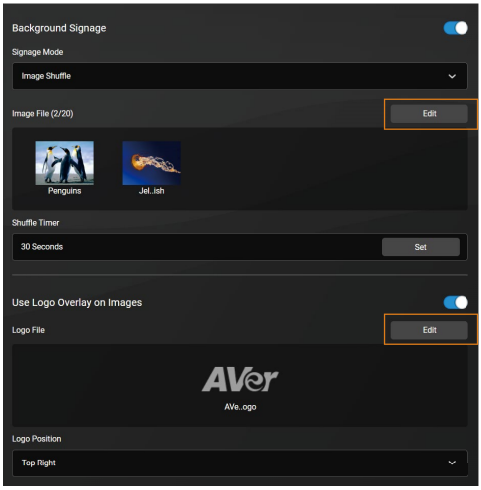


Item	Description
Signage Mode	• Image Shuffle • Video
Image File	After selecting Image Shuffle in Signage Mode, follow the on-screen instructions to upload images. You can upload up to 20 images at a time.
Video File	After selecting **Video** in Signage Mode, follow the on-screen instructions to upload a video.
Edit	Upload and delete images.
Shuffle Timer	Set the shuffle duration for images.
Use Logo Overlay on Images	Enable to display a logo overlay on images. This feature is not supported when Video is selected in Signage Mode.
Logo Position	Select the logo position.

Edit the custom background signage :

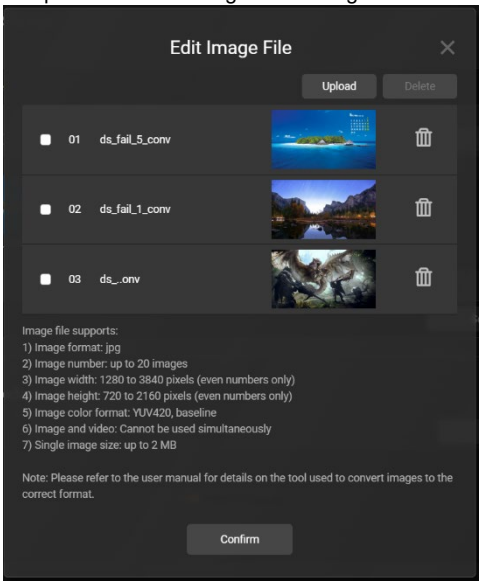
1. On the homepage, go to **Hub** > **Settings** > **Background Signage** > **Signage Mode**

2. Select the custom background signage you want to edit, either **Image Shuffle** or **Video**.

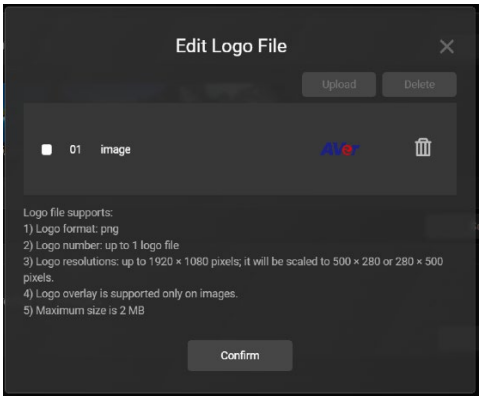


3. Click **Edit** to configure the settings.

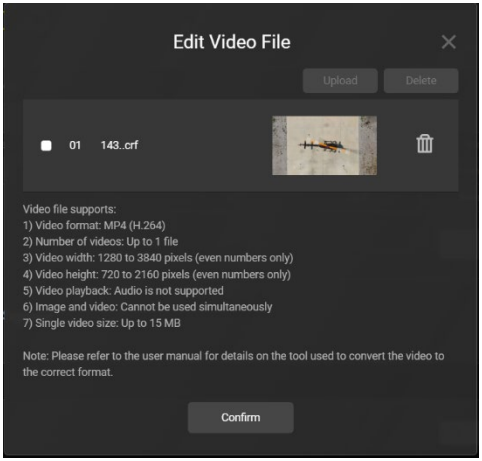
- Upload or delete images according to the on-screen instructions.



- Upload or delete the logo according to the on-screen instructions.



- Upload or delete videos according to the on-screen instructions.

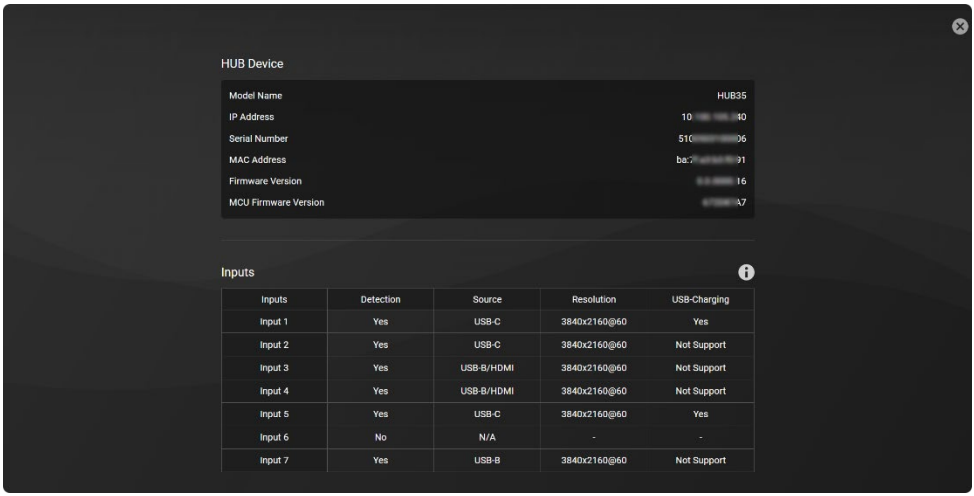


4. Once edits are complete, click **Confirm**.

Configure Device Settings

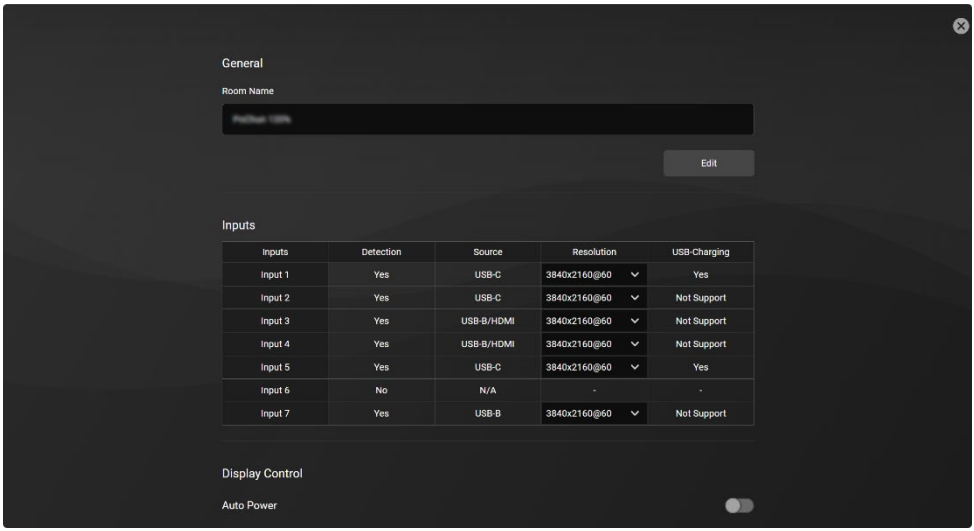
To configure device settings, click **Go to HUB** in the upper-right corner on the homepage.

Status



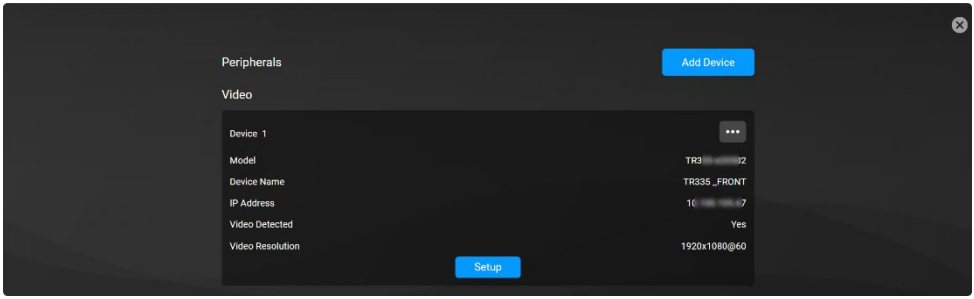
The **Status** page displays the device's input, output and peripheral connections.

Settings



Item	Description
General	Change the room name.
Input	Change the resolution from the drop-down list.
Display Control	• Auto Power: Turn on to automatically power off CEC-enabled HDMI displays after a specified period of inactivity, when no input signal is detected. The displays will power on immediately once an input signal is detected again. • CEC Command: Power on or off CEC-enabled HDMI displays.
Screenshare PIN Code	Turn on to require a PIN code before allowing screen sharing.
Streaming Output	Select how to send video to your video conferencing software—using a USB camera, an IP camera, or AI-powered framing with ConnectAI.
Direct Camera Access	Enable to let the conferencing device detect the USB camera directly.
USB Network Bridge	Enable to provide network connectivity to a computer via USB-C or USB-B, compatible with Windows 10 (version 1903 or later) and macOS 10.11 or later. The computer must be set to obtain an IP address automatically (DHCP). Hub assigns IPs in the range 192.168.10.50–150 and bridges USB networking to Ethernet for external access. Only the selected input source computer can use this function.
ConnectAI	Refer to <ConnectAI> for configurations.

Peripherals



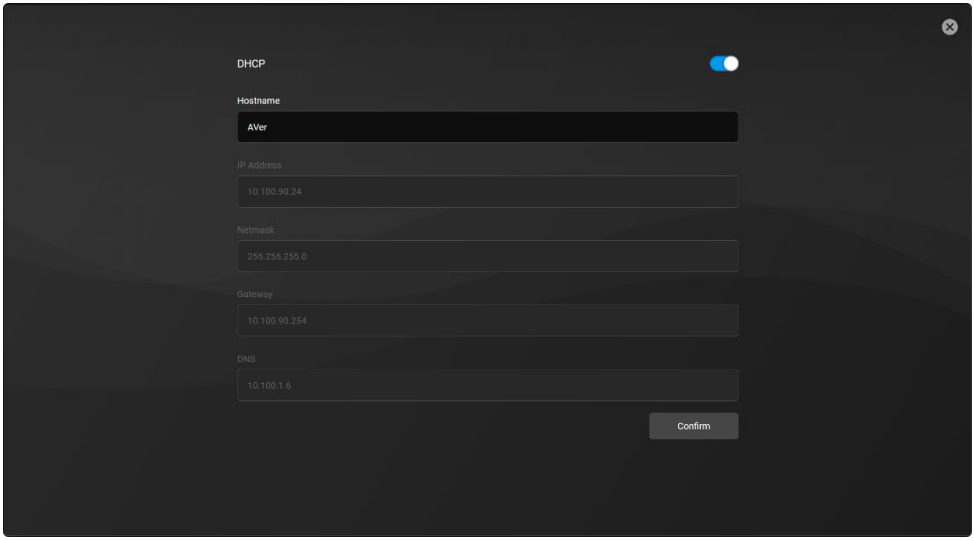
The Peripherals page lets you add AVer peripherals over IP.

1. **Add Device**
   Auto search for available devices on the same LAN. Follow the instructions in <Room Control> to add cameras over IP.

2. **More options**
   Edit, reboot or delete the added peripherals.

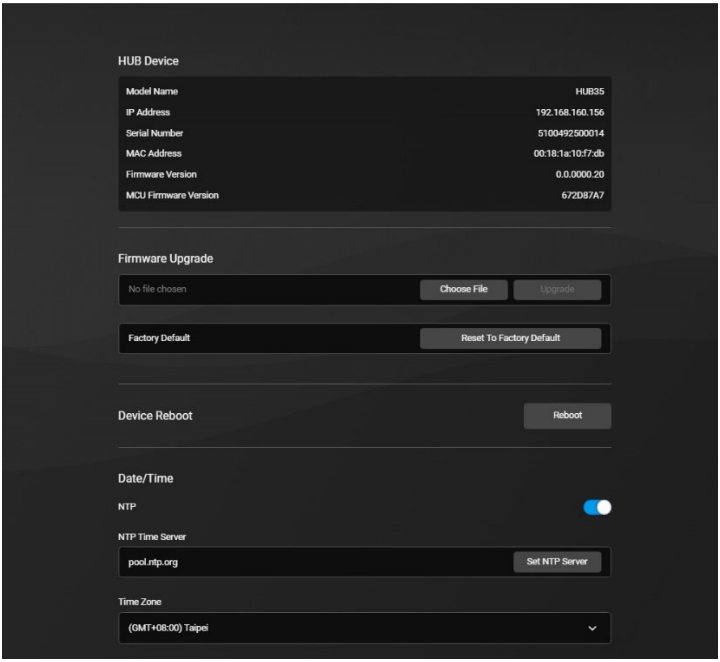
3. **Setup**
   See the camera live view, use pan, tilt and zoom controls, and save presets.

Network

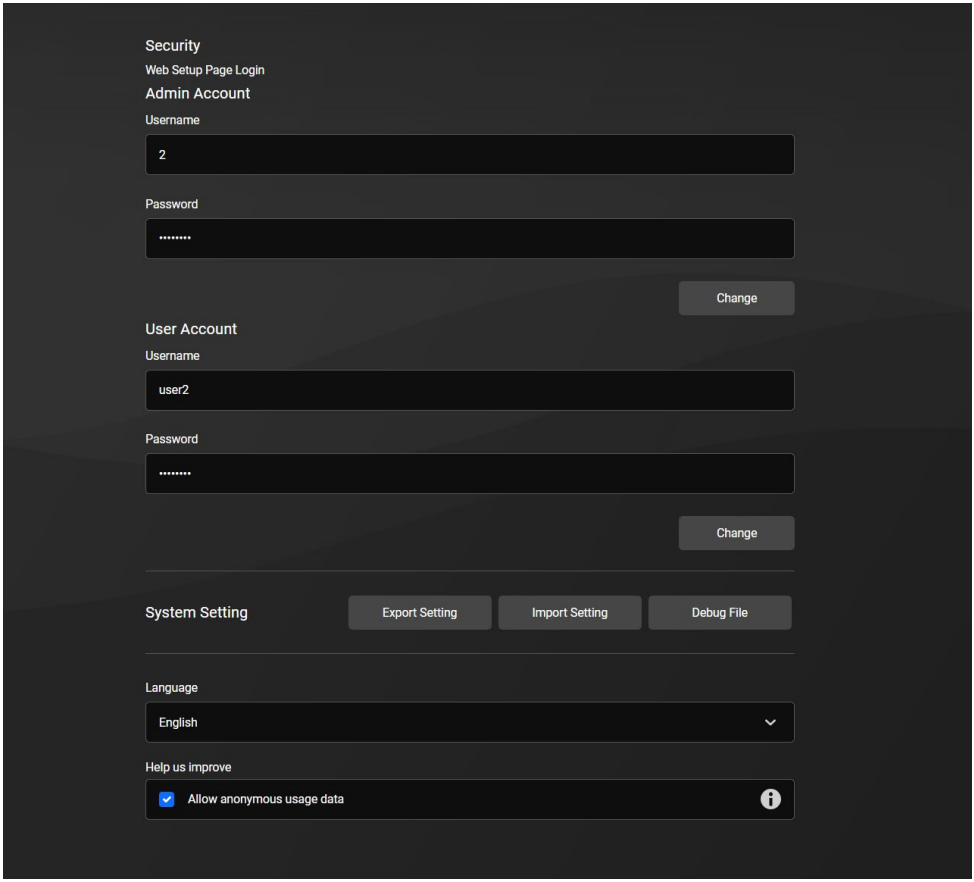


Item	Description
DHCP	Turn DHCP on or off.
Hostname	The default hostname is [Model name]-[last 6 digits of MAC Address]. *Example: HUB35-3a8292*
IP Address	Turn off DHCP first, then enter your network settings to set up a static IP connection.
Netmask	
Gateway	
DNS	

System



Item	Description
HUB Device	Displays device information such as the IP address.
Firmware Upgrade	• Download the latest firmware from AVer Download Center (https://www.aver.com/download-center). • Reset the device to factory default settings.
Device Reboot	Reboot the device.
Date/Time	Set the date and time. Turn on Network Time Protocol (NTP) server to synchronize the clock and select a time zone.



Item	Description
Security	Change your login for admin and user account. • Admin: The default username/password is **admin/admin**. • User: The default username/password is **user/user**.
System Settings	• Export or import the device settings and save debug files. • Language: Change the web interface language. • Help us improve: Opt-in or opt-out of providing anonymous usage data.

Specifications

- **HUB35**

HOST	Input 1	1x USB-C DP Alt Mode, up to 4K60, USB 3.0 (USB 3.1 Gen 1), Max. 100W Charging
	Input 2	1x USB-C DP Alt Mode, up to 4K60, USB 3.0 (USB 3.1 Gen 1)
	Input 3	1x USB-B 3.0
		1x HDMI (4K60)
	Input 4	1x USB-B 3.0
		1x HDMI (4K60)
	USB-C Charging	Yes USB Type-C charging on Input 1, up to 100W
USB Devices	Devices	4x USB-A 3.0
	USB Pass-through	Yes e.g., Touchback control on IFP
HDMI Display Output	Output	2x HDMI out
	HDMI Display Output Mode	2x Duplicate, Extend
	Audio HDMI	Yes Audio pass-through from input to output
Video - HDMI	Resolution	Up to UHD/4K@60Hz 4:4:4
	Signal Type	DP Alt Mode, HDMI 2.0, HDMI 1.4
	CEC	Yes Ability to send CEC commands to connected HDMI display sink
	Color Space	RGB, YCbCr
Audio - HDMI	Audio	Audio pass-through from input to output
	Formats	All HDMI2.0 audio formats
Control	LAN	1x 100Base-T via RJ-45 for Secure Control
	RS-232	1x Terminal Block 3-pole
	Touch Control Panel	Yes, can be paired up with AVer CP10 G2 via BYOM Controller App
Link	Range	Extend USB signals through single CAT6A cable over distances up to 100 m (328 ft)

	Medium	CAT6A U/FTP
General	Power Requirement	DC 24V/7.5A
	Power Consumption	152W
	Powering	External 180W power supply
	Dimensions (W x H x D)	270 mm x 42.4 mm x 175 mm
	Net Weight	1.34 (±0.1) kg
	Security	Kensington Slot
	Operating Conditions	Temperature : 0 °C to +45 °C ; Humidity : 20% to 80%
	Storage Conditions	Temperature : -20 °C to +60 °C ; Humidity: 20% to 95%
	Installation	Rack mountable. Under the table, inside the podium, behind the display
LED Indicator	Power/Status LED	Green (Solid) - Device is powered on and operational Green (Flashing) - Device is under firmware upgrade Orange (Solid) - The device is under standby Orange (Flashing) - Device is under factory reset
	USB-C Charging/Status LED	Green (Solid) - Device is charging the resource
	INPUT 1/2/3/4	Green (Solid) - Connected
	OUTPUT 1/2	Green (Solid) - Connected
Interface	USB-C	2x
	USB-B	2x
	HDMI In	2x
	HDMI Out	2x
	USB-A	4x
	Ethernet	1x RJ45
	LINK (TO EXT)	1x
	RS-232	1x
	Power Input	1x DC 24V
	Button	Power, Reset (Recessed)
Package Contents	1	HUB35 (1x)
	2	Power Adapter & Power Cord (1x)
	3	Cable Fixing Plate (2x)
	4	Cable Tie (18x)
	5	M3 x 5.0mm Truss Head Screw (8x)

	6	M3 x 10mm Screws (4x)
	7	Rack Mount Bracket (2x)
	8	USB 3.1 Type C (USB-C) to Type C (USB-C) Cable, 2 m/6 ft (1x)
	9	USB 3.0 Cable (USB-A to USB-B), 1.5 m/4.92 ft (1x)
	10	Terminal Block 3-pole (1x)
	11	Quick Start Guide (1x)
Warranty	5 Years	

- **EXT35**

HOST	Input 1	1x USB-C DP Alt Mode, up to 4K60, USB 3.0 (USB 3.1 Gen 1), Max. 60W Charging
	Input 2	1x USB-C DP Alt Mode, DP up to 4K60, USB 3.0 (USB 3.1 Gen 1)
	Input 3	1x USB-B 3.0
	USB-C Charging	Yes USB Type-C charging on Input 1, up to 60W
USB Devices	Devices	2x USB-A 3.0
Video - HDMI	Input Resolution	Up to UHD/4K@60Hz 4:4:4
	Input Signal Type	DisplayPort over USB-C (DisplayPort Alt Mode), USB-B
	Color Space	RGB, YCbCr
Audio - HDMI	Audio	Audio pass-through from input to output
	Formats	All HDMI2.0 audio formats
Link	Range	Extend USB signals through single CAT6A cable over distances up to 100 m (328 ft)
	Medium	CAT6A U/FTP
General	Power Requirement	DC 24V/7.5A
	Power Consumption	126W
	Powering	External 180W power supply
	Dimensions (W x H x D)	164 x 30 x 118 mm
	Net Weight	0.66 (±0.1) kg
	Security	Kensington Slot
	Operating Conditions	Temperature : 0 °C to +45 °C ; Humidity : 20% to 80%

	Storage Conditions	Temperature : -20 °C to +60 °C ; Humidity: 20% to 95%
	Installation	Rack mountable. Under the table, inside the podium
LED Indicator	Power/Status LED	Green (Solid) - Device is powered on and operational Green (Flashing) - Device is under firmware upgrade Orange (Solid) - The device is under standby
	USB-C Charging/Status LED	Green (Solid) - Device is charging the source
	INPUT 1/2/3	Green (Solid) - Connected
Interface	USB-C	2x
	USB-B	1x
	USB-A	2x
	LINK	1x
	Power Input	1x DC 24V
	Button	Power, Reset (Recessed)
Package Contents	1	EXT35 (1x)
	2	Power Adapter & Power Cord (1x)
	3	M3 x 5.0mm Truss Head Screw (4x)
	4	M3 x 10mm Screws (4x)
	5	Rack Mount Bracket (2x)
	6	USB 3.1 Type C (USB-C) to Type C (USB-C) Cable, 2 m/6 ft (1x)
	7	USB 3.0 Cable (USB-A to USB-B), 1.5 m/4.92 ft (1x)
Warranty		5 Years

Specifications are subject to change without prior notice.

Troubleshoot

Does the HUB35 support USB-C Multi-Stream Transport (MST)?

No, the HUB35 doesn't support USB-C MST. To extend up to two displays via USB, go to **Meeting** > select **Single Source – Extend** on the device's web interface.

Can't add audio/video peripherals for Room Control.

- Make sure the peripherals are connected to the same LAN as your device.
- Make sure you are using <Supported AVer Peripherals>.

Can't enable ConnectAI when connecting two cameras.

- Make sure the peripherals are connected to the same LAN as your device.
- Make sure you have added cameras over IP on the device web interface or the CP10 G2.

When customizing background signage, using third-party conversion tools.

- Video conversion: https://video.online-convert.com/convert-to-mp4
  Upload your video via **Choose File** > Under **Choose a Preset**, select 1920x1080 Full HD 30p, h.264. > Set file size to 15 MB > Check **Disable audio track** > Click **START**.
- Image conversion: https://image.online-convert.com/convert-to-jpg
  Upload your image via **Choose File** > Set **Width** to 1920 px and **Height** to 1080 px > Under **Set the chroma sub-sampling method to use**, select 4:2:0 > Click **START**.

Appendix

VISCA Command Table

The device can be controlled via VISCA over IP and VISCA over RS-232 commands.

VISCA over IP

PORT

Internet protocol	IPv4
Transport protocol	UDP
Port address	52381

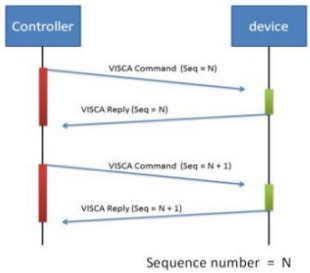
FORMAT

	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	Comments	Command Packet
Power Off		81 01 04 00 03 FF
Reboot		81 01 04 A4 FF
Mode	Signal - Duplicate	81 01 36 69 07 37 01 01 FF
	Signal – Extend	81 01 36 69 07 37 01 02 FF
	2 Sources	81 01 36 69 07 37 01 03 FF
Host	Input 1	81 01 36 69 07 37 02 01 FF
	Input 2	81 01 36 69 07 37 02 02 FF
	Input 3	81 01 36 69 07 37 02 03 FF
	Input 4	81 01 36 69 07 37 02 04 FF
	Input 5	81 01 36 69 07 37 02 05 FF
	Input 6	81 01 36 69 07 37 02 06 FF
	Input 7	81 01 36 69 07 37 02 07 FF
	LAN	81 01 36 69 07 37 02 08 FF
Output Toggle		81 01 36 69 07 37 04 00 FF