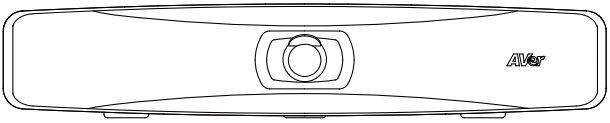
www.aver.com



VB150 Conference Camera

User Manual

Warning

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.

Caution

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

PSTI Statement of Compliance

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

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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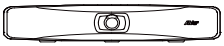
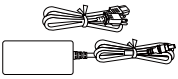
Overview

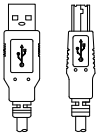
Package Contents



VB150

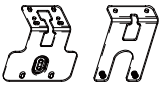


Power Adaptor & Power Cord



USB 2.0 Type-A to Type-B Cable (5 m)

Remote Control

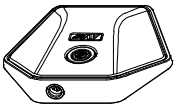


Wall Mount Kit

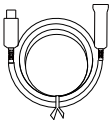
Tripod Screw
1/4”- 20UNC = 7.5 mm

USB Type-A to Type-C Adapter

Optional Accessories

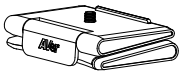


Expansion Microphone 10 m / 20 m (cable included)

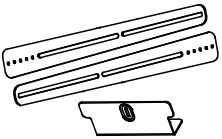


USB 3.1 Extender 10 m / 20 m / 30m

USB 3.1 Type-A to Type-B Cable (3 m)



Screen Mount Kit



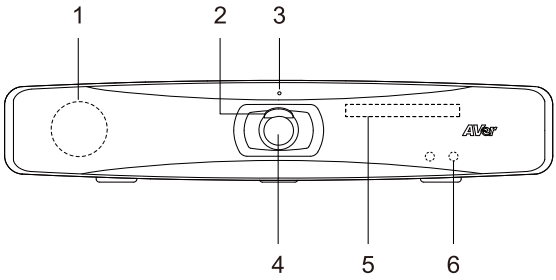
TV VESA Mount Kit

Tripod

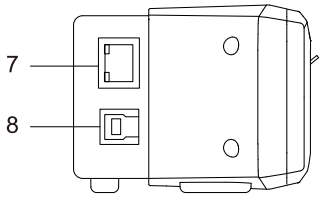
USB Wireless Dongle

* For details on optional accessories, please consult your local dealer.

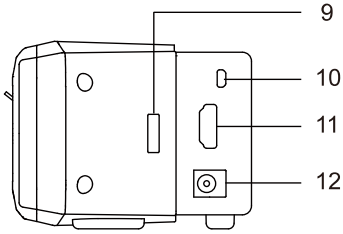
Parts Info



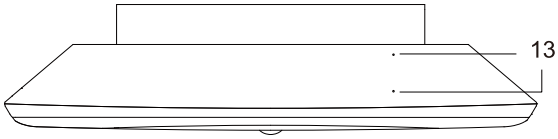
1. Speaker
2. Lens Cover
3. LED Indicator
4. Lens
5. Microphone Array
6. IR Sensor



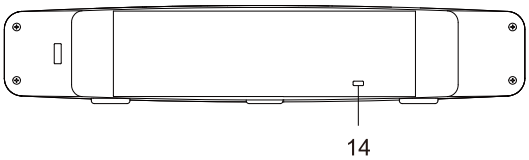
7. Ethernet Port
8. USB 3.1 Type-B Port



9. USB Wireless Dongle Port
10. Expansion Microphone Port
11. HDMI® Out Port
12. DC 12V Power Jack



13. Microphone Array

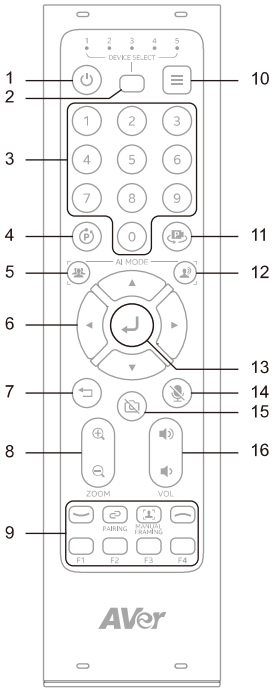


14. Kensington Lock

LED Indicator

Color	Status
Flashing blue once	Power on
Solid orange	Standby mode (not connected to USB device)
Solid white	Standby mode (connected to USB device) / a call on hold
Solid blue	Video/Audio on
Solid red	Mute
Solid purple	Video off but audio on (in-call)
Flashing current light	Calling
Flashing orange	Firmware update
Flashing orange twice	Reset

Remote Control



Name	Function
1. Power	N/A
2. Camera Select	Select 1 to operate the camera. The remote control has been set to 1 at the factory. With each press, cycle through 1-5.
3. Number Buttons	• To save a preset: Press and hold a **Number (0-9)**. • To load a preset: Press a **Number (0-9)**.
4. Compound Key	Open compound keys guide. Refer to <Combination Buttons> for details.
5. SmartFrame	Press to frame entire group on screen. Press and hold to cycle through tracking modes. • To hide the **SmartFrame** icon , go to **Setting** > **On-Screen Menu** > **Off** on the web interface or in Room Management.
6. Pan-Tilt Control	Pan and tilt direction control.
7. Back	N/A
8. Zoom In/Out	Zoom in or out.
9. Function Buttons	• Join: Join a meeting. • Pairing: Press and hold to turn wireless on. Press to disconnect wireless. • Manual Framing: N/A • Leave: Leave a meeting. • F1: Turn Audio Fence on or off. • F2: Press and hold to switch between DHCP and Static IP • F3 and F4: N/A
10. Menu	N/A
11. Load Preset	With each press, cycle through defined presets.
12. Audio Tracking	Press and hold to cycle through audio tracking modes.
13. Enter	Press to display current AI function on closed caption.
14. Mute	Mute or unmute microphone.
15. Camera Off	N/A
16. Volume	Volume up or down.

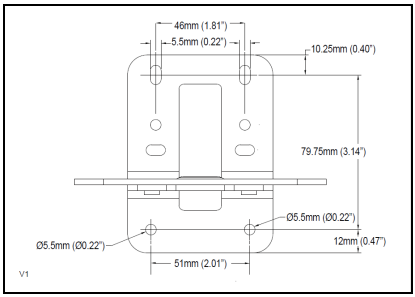
Combination Buttons

Press consequtively	To
Ⓟ + 0	Switch between 120° Wide Mode and 90° Depth Mode.
Ⓟ + 1	Turn wide dynamic range (WDR) on or off.
Ⓟ + 2	Turn Set Preset function on or off.
Ⓟ + 3	Turn RTMP streaming on or off.

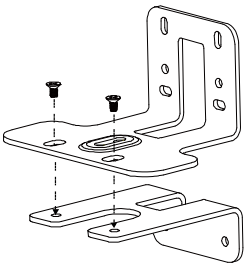
Intallation

Wall Mount Installation

1. Use the drilling paper in the wall mount kit to drill four holes on the wall where the user wants to mount the camera. (Depending on different regions, it may include screen mount or wall mount kit in the package.)



2. Use two M4 x8 screws in the wall mount kit to assemble L-mount brackets.

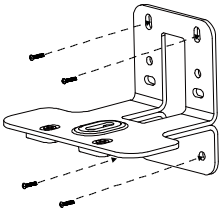


3. Use four screws (not supplied in the wall mount kit) to secure the L-mount brackets on the wall.

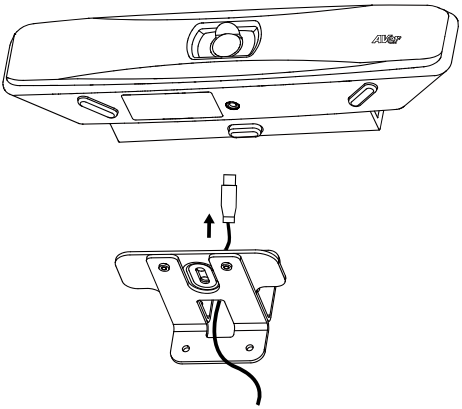
   [Note]

   Screws for Cement wall: M4 x20mm self-tapping screws (x4) + Plastic conical anchor

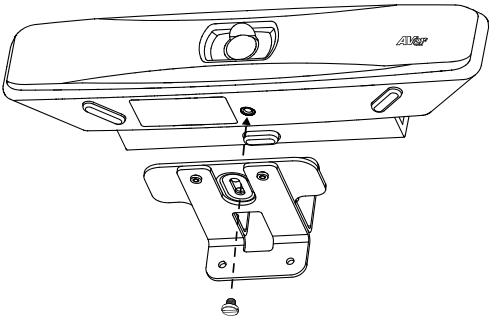
   Screws for Wooden wall: M4 x20mm self-tapping screws (x4)



4. Pass the cables through the hole on the L-mount brackets and connect the cables to corresponding connection ports.

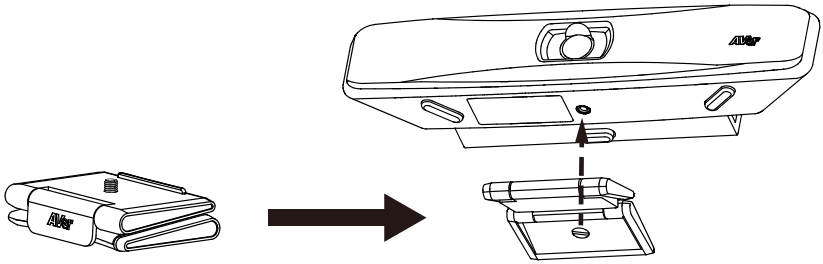


5. Use the tripod screw in the wall mount kit to secure VB150 on the L-mount brackets.

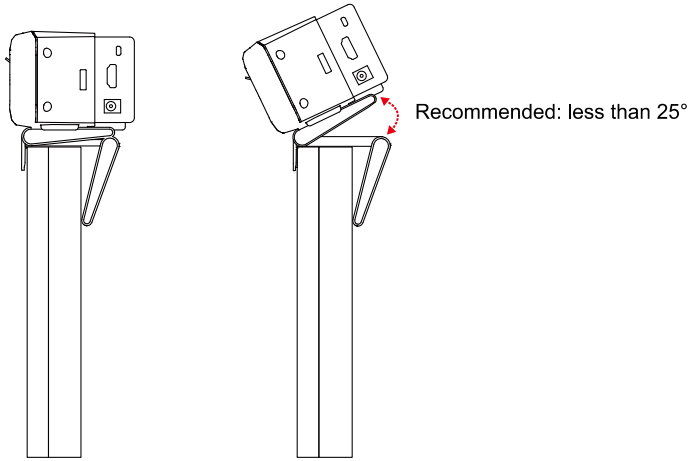


Screen Mount Installation (Optional)

1. Open the screen mount and use its tripod screw to secure the VB150. (Depending on different regions, it may include screen mount or wall mount kit in the package.)

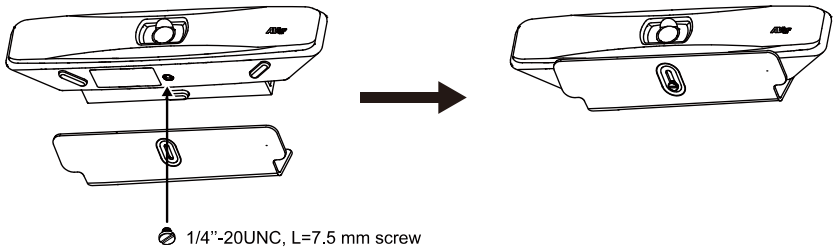


2. Clip the screen mount on the top of TV or the monitor. Tilt the screen mount if needed.

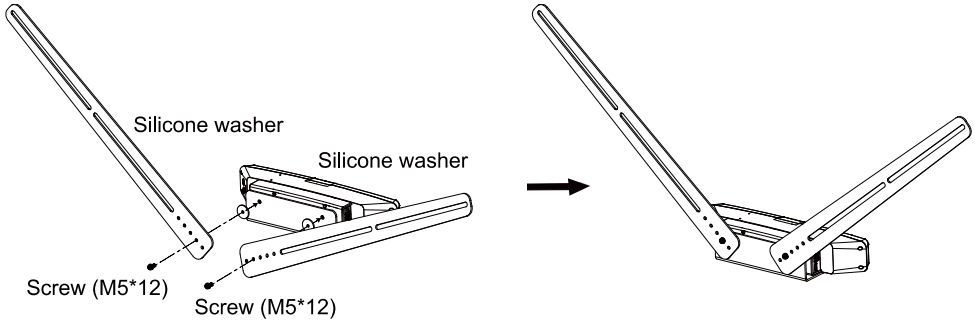


TV VESA Mount Installation (Optional)

1.

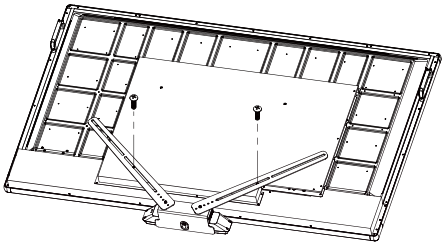


2.

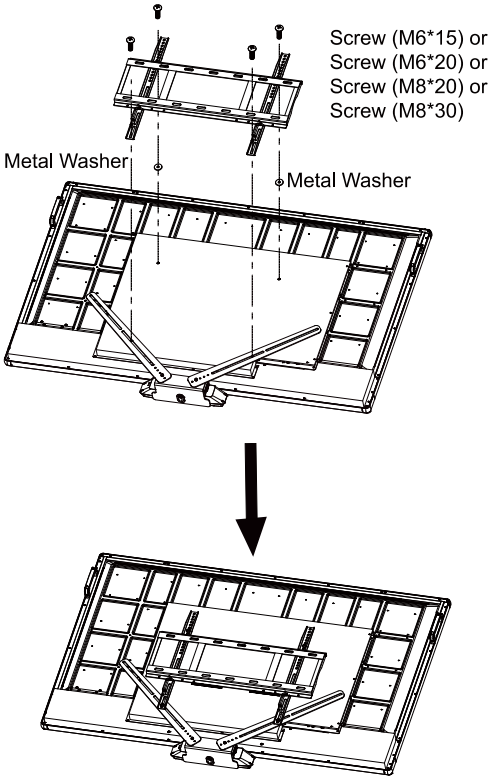


3.

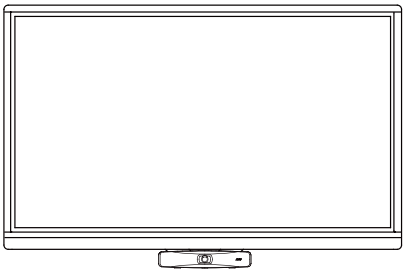
Screw (M6*15) or
Screw (M6*20) or
Screw (M8*20) or
Screw (M8*30)



OR



4.

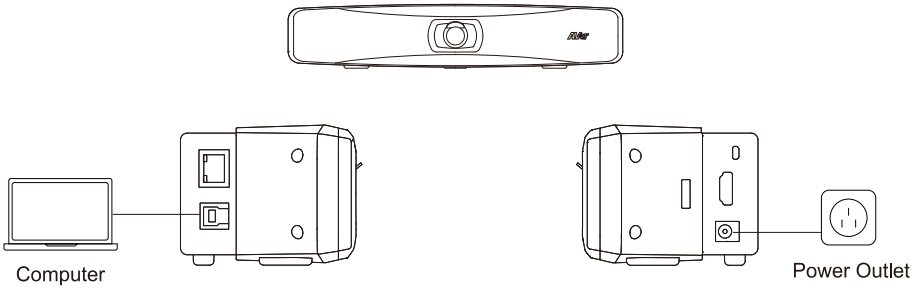


Connections

Device Connection

Computer

Connect the VB150 to a computer using the included USB 2.0 cable and connect the power cord of VB150 to power wall outlet.



Resolution & frame rate for USB 2.0 and USB 3.1 connection:

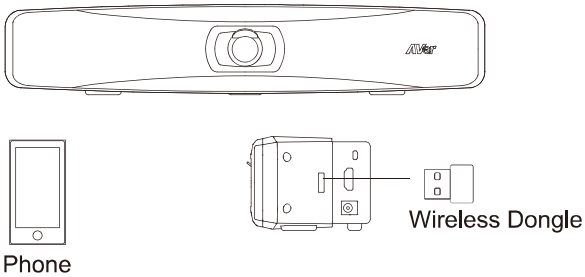
USB 2.0		USB 3.1	
YUV	M-JPEG	YUV	M-JPEG
- 640x480 or less resolution, up to 30fps - 720p, up to 10fps	- Up to 4k/30fps - 1080p/60fps	- Up to 1080p/30fps - 720p/60fps	- Up to 4k/30fps - 1080p/60fps

Digital zoom ratio vs video resolution

Resolution	Zoom in/out ratio
4K	5x
1080p/60fps	5x
Others	5x

Phone

Plug the wireless dongle into the USB Wireless Dongle port before turning on VB150, then use the remote control or Room Management to turn on Wireless. Turn on wireless function on the mobile phone to connect and use VB150 as an external microphone and speaker during conference meetings.

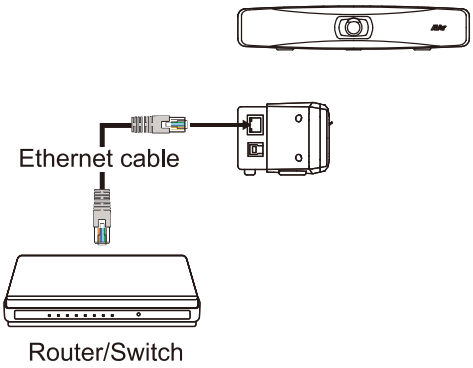


Make a three-way call:

While having a video call such as Zoom or Teams, user can use mobile phone to call third party to instantly join the on-going meeting. Connect a mobile phone to VB150 via Bluetooth connection. Use the mobile phone to call third party and the third party's sound can be heard by remote site to start a three-way conference call.

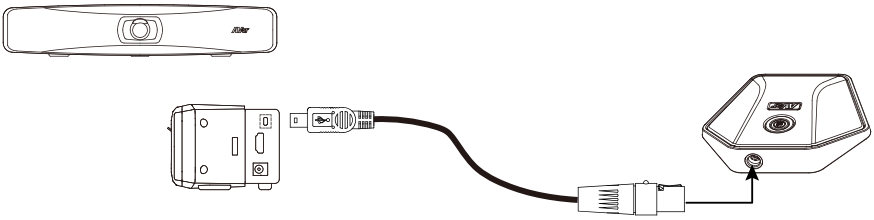
Ethernet Connection

Connect to Ethernet and access your camera's web interface.



Expansion Microphone Installation (Optional)

Connect the expansion port on the video bar to the mini XLR port on the expansion microphone by using the included cable. The expansion speakerphone comes with a 10 m or 20 m cable.



s

Get Started

Make a Video Call

The VB150 is a plug-n-play device. Open your video conferencing software and select the VB150 for **Audio** and **Video**.

Access the Web Interface

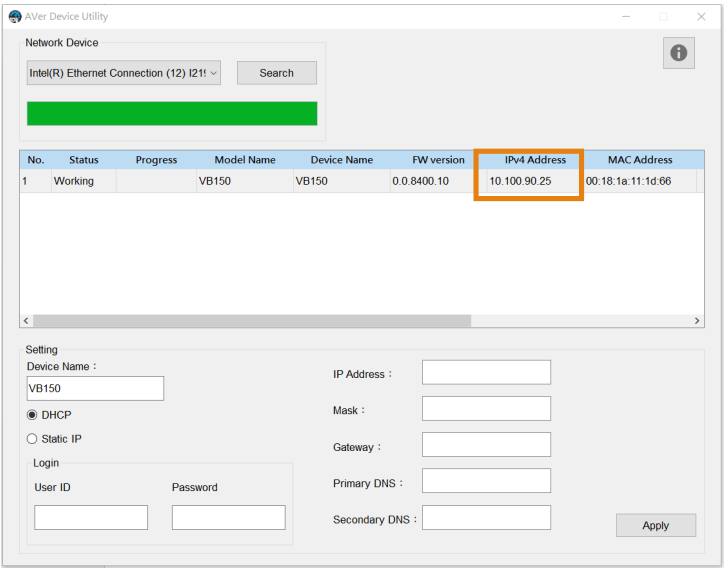
To access the web interface of your device, you can use any of the following software to find its IP address:

- AVer Device Utility
- Room Management

Note:

- The device's default network is DHCP.
- The device's default username/password is **admin**/**aver4321**.

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-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.

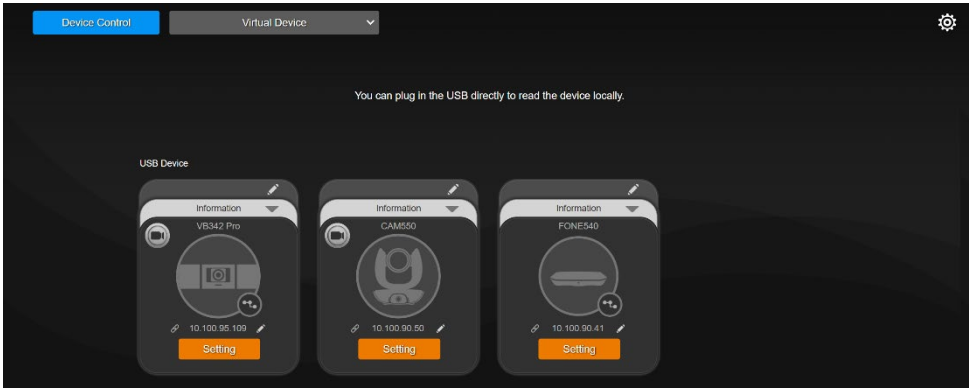
To change the network setting to DHCP or static IP:

1. Enter the default or changed password in the **Login** field.

2. Select **DHCP** or **Static IP**, then enter your network settings if applicable in the **Settings** section.

3. Click **Apply**.

Room Management



To access the web interface:

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

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

2. Connect your device to your computer with the included USB cable. You device should appear under the **Device Control** page.

3. Click **Setting** to control audio and video settings.
   For additional information, please refer to the Room Management user manual.

To change the network setting to DHCP or static IP:

1. Click the **pencil** icon on the device card.

2. Select **DHCP** or **Static IP**, then enter your network settings if applicable.

3. Click **Confirm**.

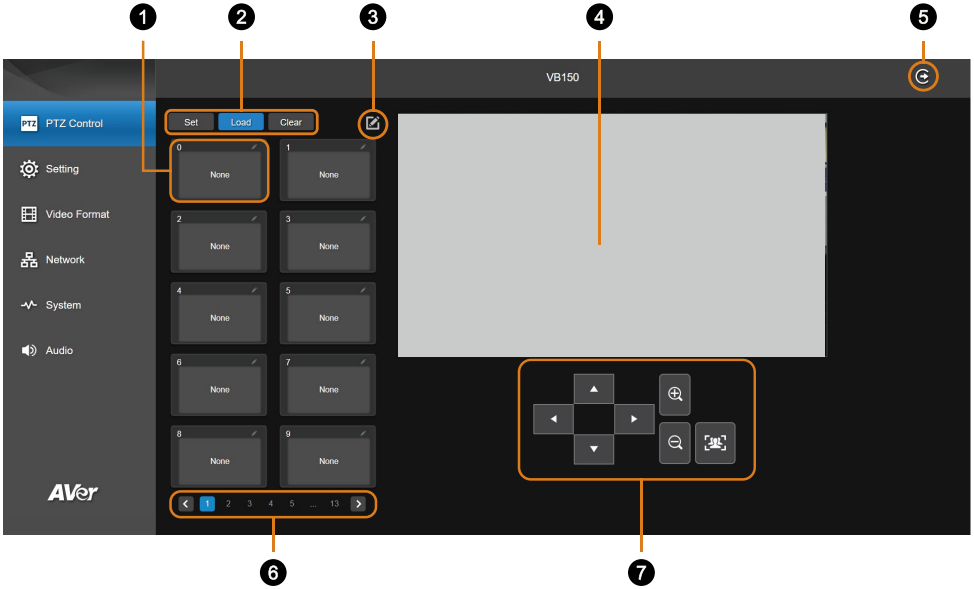
Log In for the First Time

When you log in for the first time, enter the default password **aver4321**. You will be prompted to set up a new account and password. The account and password cannot be the same.

- Account: Use 1-32 characters and a combination of uppercase letters, lowercase letters, numbers, and symbols (!$%’()*+,-./<=>?@[\]^_{}~). The account name must not be "admin".
- Password: Use 8-32 characters and a combination of uppercase letters, lowercase letters, numbers, and symbols (!$%’()*+,-./<=>?@[\]^_{}~).

Web Interface

PTZ Control



1. **Preset Thumbnail**
   Click the **pencil** icon to name a preset.

2. **Preset Functions**

3. **Edit Presets**
   Add up to 128 or delete available presets.

4. **Live View**

5. **Log Out**

6. **Pages of Available Presets**

7. **Directional Pad and Zoom**
   - SmartFrame : Frame entire group on screen once.

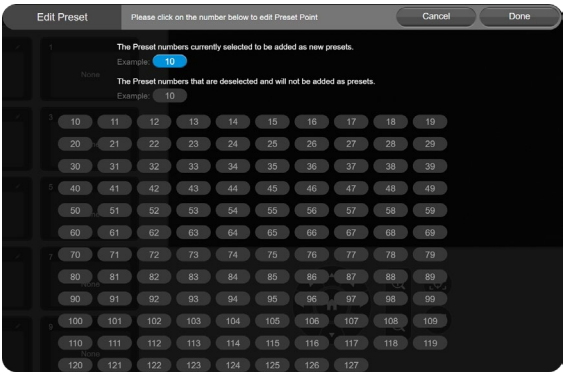
   Note: The SmartFrame icon appears on video when turned on. To hide the icon, go to the **Setting** tab > **On-Screen Menu** > **Off** on the web interface.

Save, Load or Clear a Preset

To save, load or clear a preset:

1. Select an action you want: **Set**, **Load** or **Clear**.
2. Select a preset number.
3. Click **Yes** when prompted. A thumbnail will appear.

Add and Delete Available Presets (Presets 10-127)



Presets 0-9 are available by default.

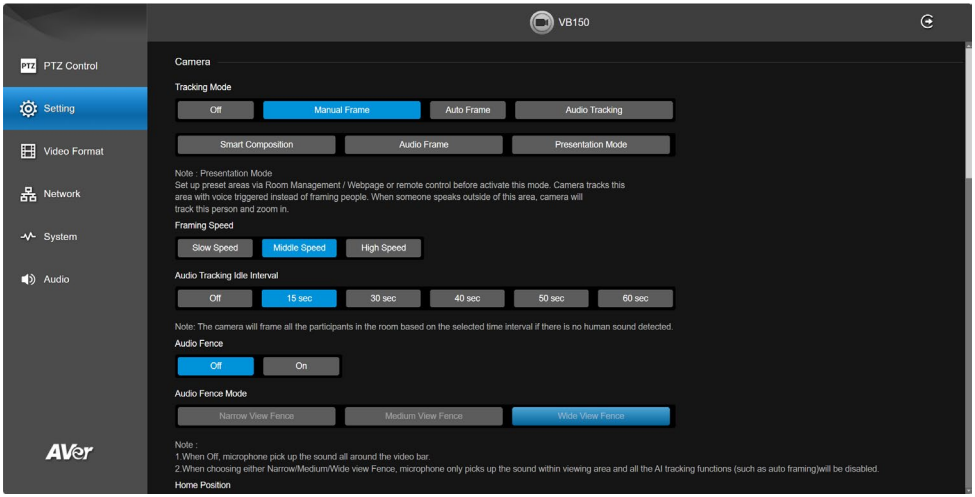
To add an available presets:

1. Click the **edit preset** icon.
2. Select the preset numbers you want to add. Selected presets will turn blue.
3. Click **Done**.

To delete an available preset:

1. Click the **edit preset** icon.
2. Select the preset numbers you want to delete. Selected presets will turn gray.
3. Click **Done**.

Setting



Camera

Item	Description
Tracking Mode	Select a tracking mode. Refer to <Tracking Mode> for details.
Framing Speed	Select a delay before auto frame. • **Slow:** 5 seconds before auto frame. • **Middle:** 3 seconds before auto frame. • **High:** 1 second before auto frame.
Audio Tracking Idle Interval	Select a delay for the camera to frame entire group after it detects no sound. • If Off is selected, the camera will stay at the last position.
Audio Fence	When Audio Fence is turned on: • Select a narrow or wide audio fence to capture only the voices within it. • You won't be able to use pan, tilt, zoom controls, SmartFrame.and tracking modes.
Audio Fence Mode	
Home Position	When the tracking mode is disabled, the camera will automatically

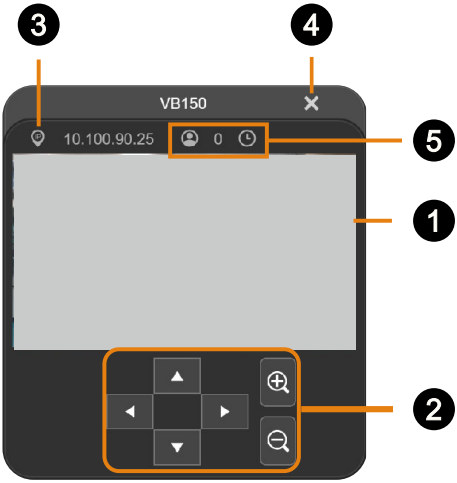
	move to the preset position when powered on. When a tracking mode is enabled, the camera automatically starts tracking after power-on. If no person is detected, it switches to the panoramic view.
On-Screen Menu	Turn On-Screen Menu on or off / Call information. • **Off:** Displays no icons or notifications. • **On:** Displays icons or notifications. • **Load Preset Off:** Displays all icons and notifications except load preset.
Save Preset	Turn Save Preset on or off. • When Save Preset is turned off, you won't be able to save presets using the remote control, web interface, hotkeys or VISCA commands.

Image

Item	Description
Field Of View	Two field of view options are available to fit different room sizes. **Note:** Turn off AI functions to enable this option.
Image Flip	Flip the image vertically.
Image Mirror	Flip the image horizontally.
True WDR	Turn True Wide Dynamic Range (WDR) on or off.
Frequency	Select a frequency.
White Balance	Select a white balance setting: • Manual: Adjust the white balance manually by dragging the slider. • Auto White Balance (AWB): Adjust the white balance automatically. • Auto Tracking White Balance (ATW): Detect ambient lighting and adjust the white balance dynamically.
Noise Reduction	Select a noise reduction level.
Brightness	Select a brightness level.
Sharpness	Select a sharpness level.
Saturation	Select a saturation level.
Low Light Compensation	Turn Low Light Compensation on or off.
Low Resolution under 720p (except 848*480)	Enable to transmit video in 720p or lower.
Enlarge Total Zoom Up To 5x	Total zoom up to five times for detailed view.
Video Frame Rate	Select a video frame rate.

Overview of the Floating Live View

- The floating live views opens automatically in the **Setting**, **Video Format**, **Network** and **System** tabs.
- To open the floating live view again after closing, click on the camera icon on top of **Setting**, **Video Format**, **Network** and **System** tabs.



1. **Live View**

2. **Directional Pad and Zoom**

3. **IP Address**

4. **Close**

Click the X icon to close the floating live view and stop transmitting video.

5. **Head Count and Video Transmission Duration**

Click the head count icon to display head count and the duration of your video transmission. Click the icon again to hide the information.

Tracking Mode

Manual Frame

Frames manually using the SmartFrame button to frame entire group on screen once.

Auto Frame

Frames entire group on screen automatically.

If no one is in view, the camera will default to preset 0.

- The camera auto frames every time a subject enters or leaves the screen.
- If Auto Frame happens too frequently, set a delay before auto frame in the **Setting** tab > **Framing Speed**.

Audio Tracking

Frames active speaker on screen. After switching speakers three times, the camera frames all participants.
If no one is speaking, the camera will stay at the last position or default to group framing after your selected **Audio Tracking Idle Interval**.

- You can set a delay before the camera default to group framing in the **Setting** tab > **Audio Tracking Idle Interval**.

Smart Composition

Creates a close-up frame for each participants and present them in a single stream composited gallery.

- Smart Composition frames up to 9 people. If more than 9 are in view, the camera will default to group framing.

Audio Frame

Frames active speaker on screen. After switching speakers three times, the camera frames all participants.
If no one is speaking, the camera will stay at the last position or default to group framing after your selected **Audio Tracking Idle Interval**.

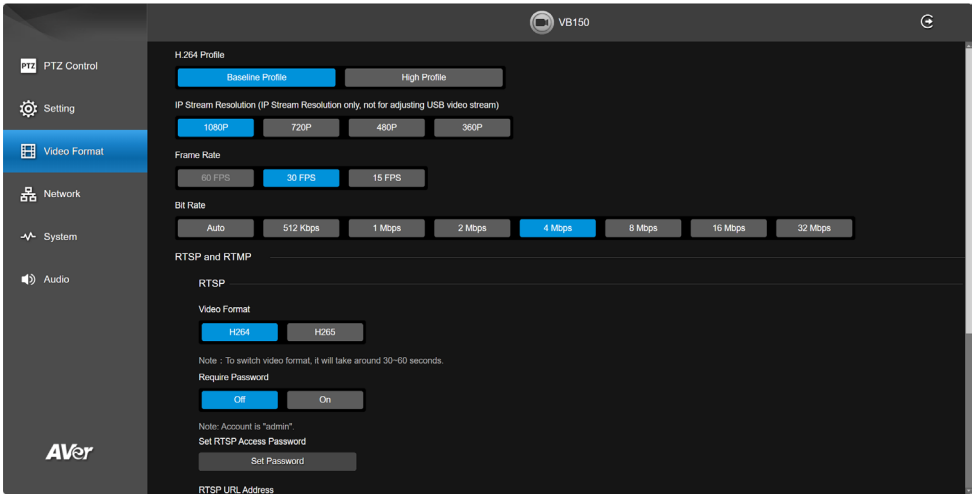
- You can set a delay before the camera default to group framing in the **Setting** tab > **Audio Tracking Idle Interval**.

Presentation Mode

A combination of presets and Audio Tracking.
Uses presets when active speaker is speaking inside of presets; uses Audio Tracking and frames active speaker on screen when they are speaking outside of presets.
If no one is speaking, the camera will stay at the last position or default to group framing after your selected Audio Tracking Idle Interval.

- Make sure you have defined presets for audio tracking. Presets 1-9 are available. Preset 0 defaults to the home position.
- You can set a delay before the camera default to group framing in the Setting tab > Audio Tracking Idle Interval.

Video Format

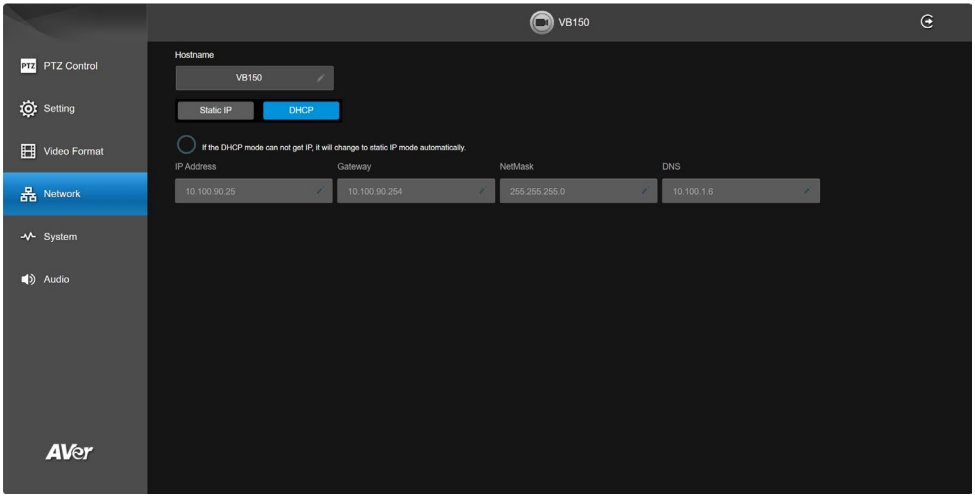


Item	Description
H.264 Profile	Select a profile for streaming live.
IP Stream Resolution	Select a resolution for streaming over IP.
Frame Rate	Select a frame rate.
Bit Rate	Select a bit rate. • To live stream on Facebook, we recommend a bit rate under 4Mbps.

RTSP and RTMP

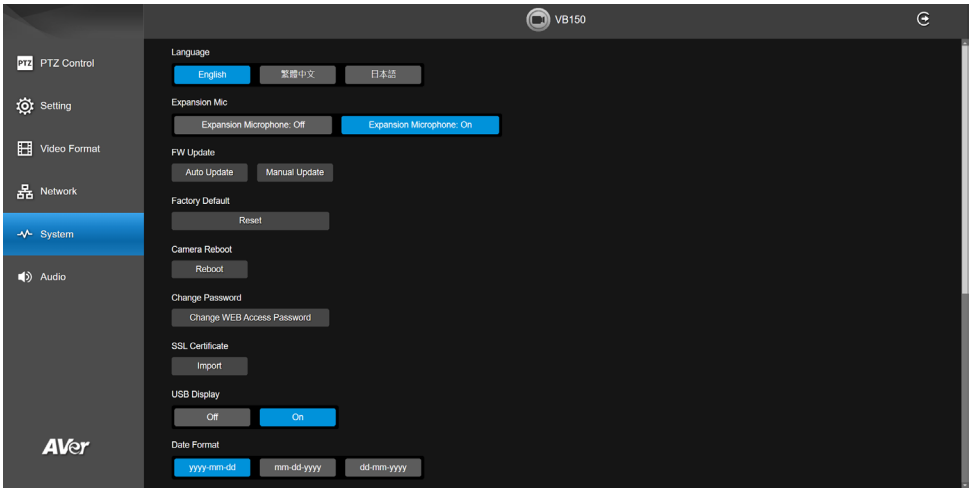
Item		Description
RTSP	Video Format	Select a video format.
	Require Password	Turn Require Password on or off.
	Set RTSP Access Password	Set or change an RTSP access password.
	RTSP URL Address	Displays RTSP URL address.
RTMP	Server URL	Copy and paste your video platform's server URL and stream key.
	Stream Key	
	Start Using RTMP	Click **Start** to start streaming, **Stop** to stop streaming.

Network



Item	Description
Hostname	Click the pencil icon to edit a hostname. Use upper and lowercase letters and numbers.
Static IP, DHCP	Set the network setting to Static IP or DHCP. • Static IP: Enter your network settings to set up a static IP connection and click **Confirm**. • DHCP (default): The DHCP server assigns a random IP automatically.

System



Item	Description
Language	Select a language for the web interface.
Expansion Mic	Turn Expansion Microphone on or off.
Firmware Update	Update your camera's firmware. • **Auto Update:** Checks and updates online. • **Manual Update:** Update the firmware using a file offline. **Note:** The camera will reboot and the connection will be lost. Please wait a few minutes and keep the power cable connected. Unplugging the cable during this process may damage the device.
Factory Default	Reset your camera to factory default settings. You can choose to keep the IP address by selecting the checkmark. • If you forgot your password, use Room Management to reset the web interface password to the default **aver4321**.
Camera Reboot	Reboot the camera.
Change Password	Change the web interface password. Refer to <Log In for the First Time>. • If you forgot your password, use Room Management to reset the web interface password to the default **aver4321**.
SSL Certificate	Upload an SSL certificate.
USB Display	The HDMI output port supports USB display. Turn USB display on or off.
Date Format	Select a date format.
Time Format	Select a time format.

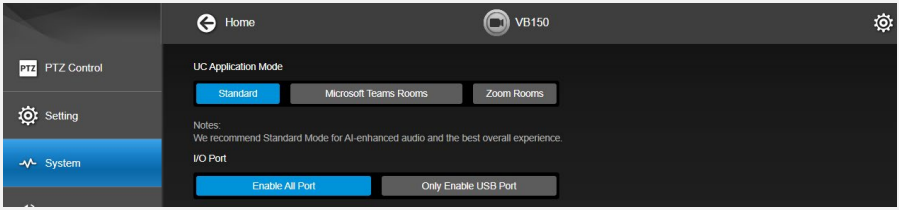
Time Correction Mode	Select a time correction mode. • **Auto:** Enter your Network Time Protocol (NTP) server URL to synchronize the clock. The default NTP server is located in the US. • **Manual:** Click the pencil icon to set up the clock.
Allow Providing of Anonymous Usage Data	Opt-in or opt-out of providing usage data.
Information	Displays your camera information such as IP address.

Note:

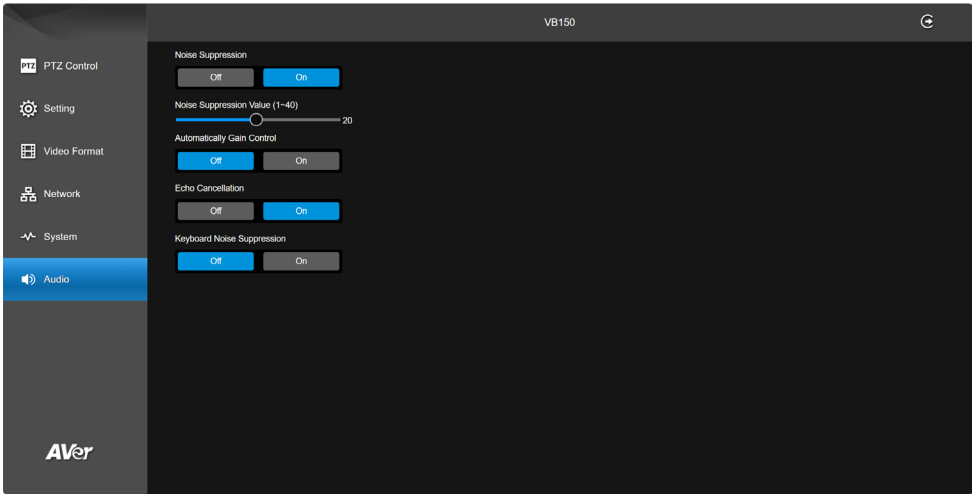
The VB150 supports expansion microphones. Refer to <Room Management> for login instructions.

- Go to **Room Management** > **System** > **UC Application Mode**.

Item	Description
Standard	Recommended for AI-enhanced audio and the best overall experience. External microphones can be connected only when Standard Mode is selected.
Microsoft Teams Rooms	Optimized for integration with Microsoft Teams Rooms systems.
Zoom Rooms	Optimized for integration with Zoom Rooms systems.



Audio



Item	Description
Nosie Suppression	Reduce ambient noise. Adjust the noise suppression value by dragging the slider.
Automatically Gain Control	Turn automatic gain control on or off.
Echo Cancellation	Reduce echoes.
Keyboard Noise Suppression	Turn keyboard noise suppression on or off.

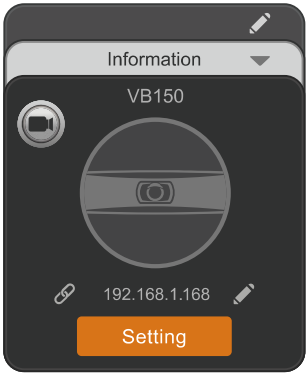
Room Management

Configure Settings on Room Management

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

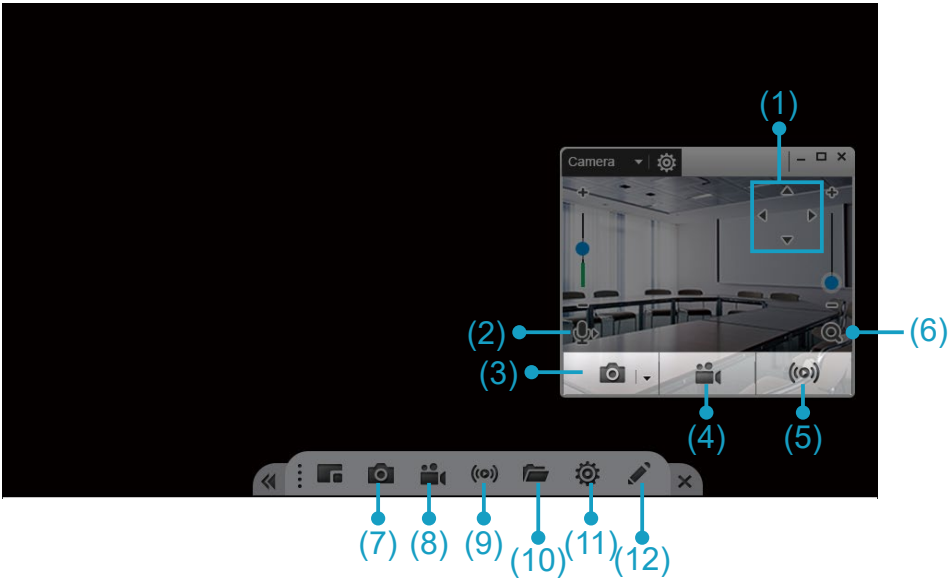
2. Connect your device to your computer using the included USB cable. You device should appear under the **Device Control** page.

3. Click **Setting** to control audio and video settings.
   For additional information, please refer to the Room Management user manual.



EZLive

Please go to https://www.aver.com/download-center to download the AVer EZLive software. After downloading, double-click on the file and follow the on-screen instructions to complete the installation.

During a video call, EZLive can help user to do:

(1) Camera ePTZ
(2) Volume control for the speaker connected
(3) Capture camera's still images
(4) Record video
(5) Live stream to YouTube, Livehouse.in, USTREAM, etc.
(6) Camera Zoom in/out
(7) Capture PC screen shot
(8) Record PC screen video
(9) Set up livestream
(10) Open file management to retrieve photos and video files
(11) Livestream setting
(12) Drawing tool.