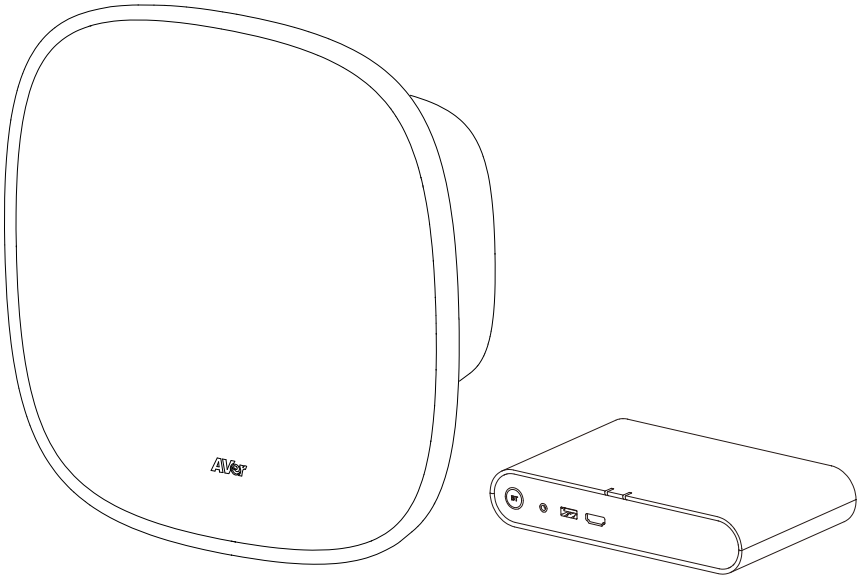
www.aver.com



FONE700

Array Speakerphone Conference System

— User Manual —

Federal Communications Commission Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radiofrequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

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.

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.

Remote Control Battery Safety Information:

- Store batteries in a cool and dry place.
- Do not throw away used batteries in the trash. Properly dispose of used batteries through specially approved disposal methods.
- Remove the batteries if they are not in use for long periods of time. Battery leakage and corrosion can damage the remote control. Dispose of batteries safely and through approved disposal methods.
- Do not use old batteries with new batteries.
- Do not mix and use different types of batteries: alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium).
- Do not dispose of batteries in a fire.
- Do not attempt to short-circuit the battery terminals.

遙控器電池安全資訊

- 請將電池存放在涼爽與乾燥的位置。
- 不要將電量用盡的電池棄置在家庭廢棄物中。請將電池棄置在特定回收處，或送回原購買的商店。
- 如果長時間不使用電池，請將其取出。電池漏液與腐蝕可能會損壞遙控器，請以安全方式棄置電池。
- 不可混用新舊電池。
- 不可混用不同類型的電池：鹼性、標準（碳鋅）或可充電（鎳鎘）電池。
- 不可將電池棄置於火源中。
- 請勿嘗試讓電池端子短路。

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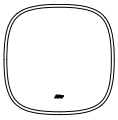
Overview

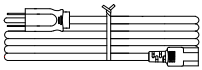
Package Contents



FONE700 Ceiling Speakerphone

FONE700 Hub

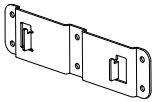
Power Adapter (48V/3.75A)



Power Cable

RJ45 Cable 10M

USB-C 2.0 Cable 5M



Hub Wall Mount Bracket

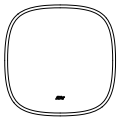
Wall Mount Screw Kit (Screw: ST4.9*32mm)

Ceiling Mount Drill Template

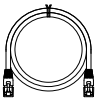
Wall Mount Drill Template

Quick Start Guide

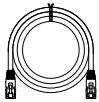
Optional Accessories



Ceiling Speakerphone (for daisy-chain)



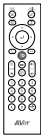
RJ45 Cable 10M



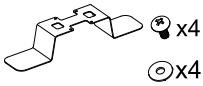
RJ45 Cable 20M

IR Receiver Cable

Remote Control (Small)



Remote Control (Large)



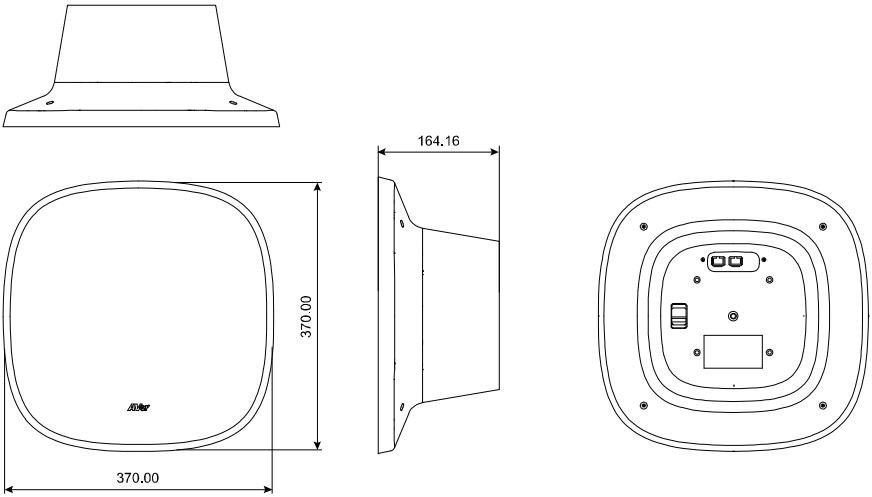
Ceiling Mount Kit (Screw: M4*10mm)

BT Dongle

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

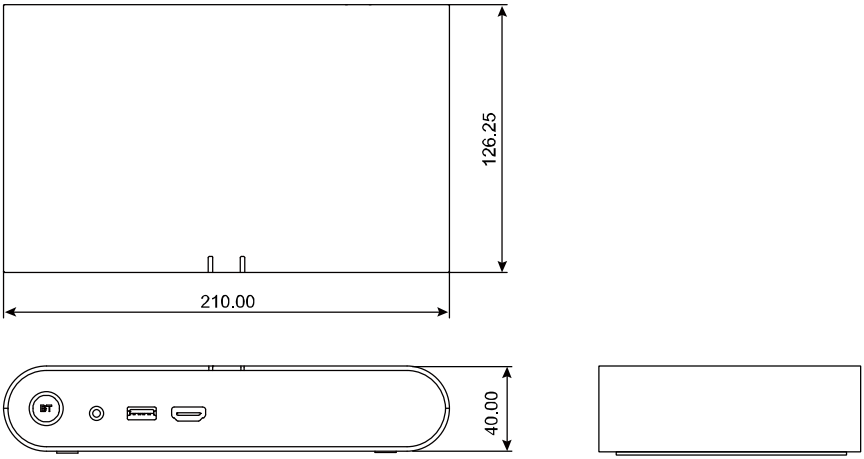
Dimensions

- **Speakerphone**



Unit: mm

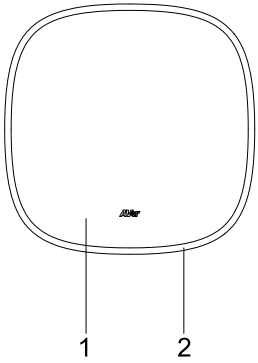
- **Hub**



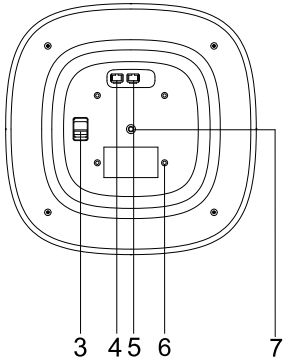
Unit: mm

Parts Info

- **Speakerphone**

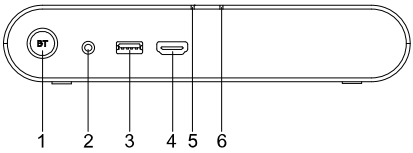


1. Speakerphone
2. LED Indicator

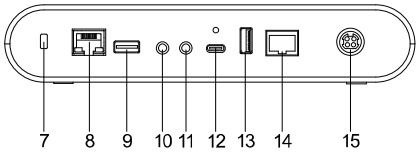


3. Tie-off Point
4. RJ45 Out Port (red port)
5. RJ45 In Port (yellow port)
6. M4 Screw Holes (x4)
7. 1/4”-20 Screw Hole

- **Hub**



1. Bluetooth Button
2. IR Receiver Port
3. Bluetooth Dongle Port
4. HDMI-out Port
5. Status LED Indicator
6. Bluetooth Status LED Indicator



7. Kensington Lock
8. LAN Port
9. USB 3.0 Type-A Port (for cameras)
10. 3.5mm Phone In Jack
11. 3.5mm Audio-Out Jack
12. USB 3.0 Type-C Port
13. USB 3.0 Type-A Port (for cameras)
14. RJ45 Speakerphone Port (red port)
15. DC Power Jack (48V)

LED Indicators

- **Speakerphone**

LED	Status
Blue (Flash once)	Connect to Hub
Blue (Flashing)	Start-up
Blue (Solid)	Active
Red (Solid)	Mute mic
Red (Flashing)	Firmware update

- **Hub**

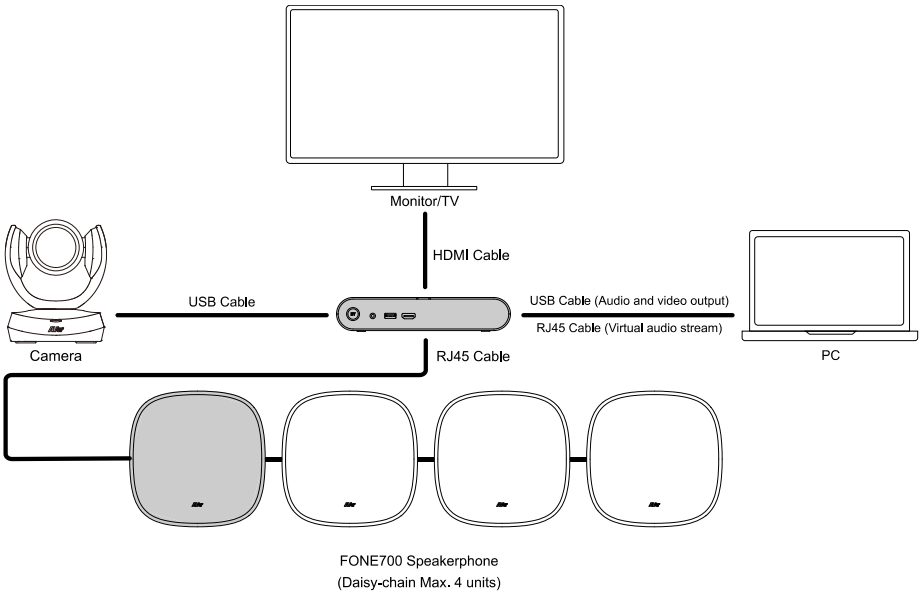
Hub Status

LED	Status
Blue (Flash once)	Power on
Blue (Flashing)	Start-up
Blue (Solid)	Active
Orange (Solid)	Standby/Sleep mode
Orange (Flashing)	Firmware updating

Bluetooth Status

LED	Status
Blue (Solid)	Successfully paired and connected
Blue (Flashing)	Pairing
OFF	Connection failed

Connection

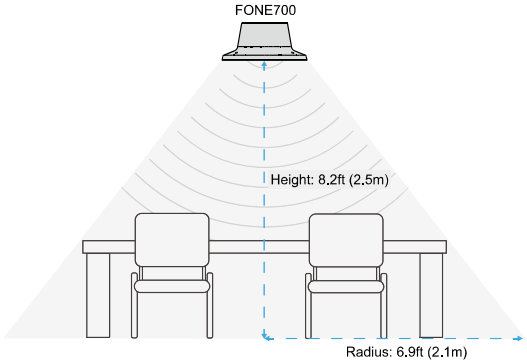


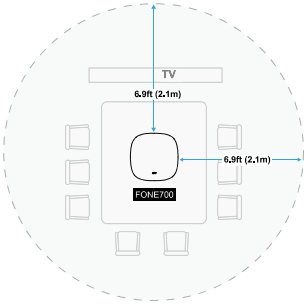
Connect to	Description
Monitor/TV	1. Plug in the FONE700 Hub power adapter to power up. 2. Use an HDMI cable to connect the FONE700 Hub to a monitor or TV to share the computer screen.
PC	● **USB Cable**: Connect FONE700 Hub to a PC with a USB Type-C cable to configure settings in **PTZApp 2** or send PC audio to the FONE700 Speakerphone. ● **Ethernet Cable**: Connect FONE700 Hub to your PC using the same network to use Virtual Audio Stream function.
USB PTZ Camera	Connect FONE700 Hub to a camera with a USB 3.0 Type-A cable to build connection with your PC and configure settings in **PTZApp 2**.
FONE700 Speakerphone	**Daisy Chain Connection:** Use RJ45 cables to connect FONE700 Hub to the Speakerphone(s). You can connect up to 4 units in a daisy chain. Please use the Aver-supplied 180V power adapter for daisy chain of 4 units.

Mobile Phone	• **Bluetooth:** 1. **Plug in Bluetooth dongle first,** then connect FONE700 Hub to the power adapter. 2. Long press the BT button on FONE700 Hub for 2 seconds to start pairing. 3. You can then use Bluetooth to connect your phone to the FONE700 Hub. • **3.5mm Phone-In Cable:** Connect your phone to FONE700 Hub with a 3.5mm Phone-In cable to output audio from your phone.
Wired Speaker	Connect the 3.5mm cable from your wired speaker equipment to the **Audio Out** port on FONE700 Hub to use it as additional external speaker.
Wired Microphone	Connect the 3.5mm cable from your wired microphone to the **Phone-In** port on FONE700 Hub to use it as an additional microphone.

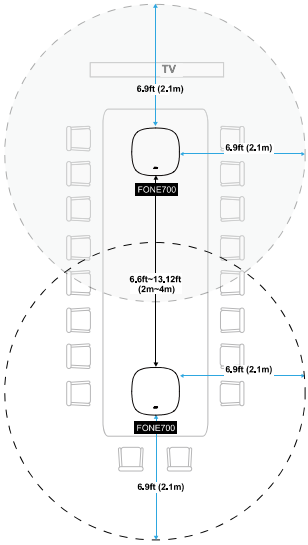
Installation

- **Installation height**
  - Recommended: 8.2ft (2.5m)
  - Effective range: 6.6-9.8ft (2-3m)
- **Daisy-chain device distance**
  - Recommended: 6.6-13.2ft (2-4m)
  - Minimum: 3.3ft (1m)
- **Audio tracking radius**
  - Recommended: 6.9ft (2.1m)
  - Effective range: 5.6-7.9ft (1.7-2.4m)
- **Audio meeting radius**
  - Recommended: 8.2ft (2.5m)
  - Effective range: up to 11.5ft (3.5m)
- **Avoid ambient noises**
  - e.g., air conditioners, projectors, doorways…





One speakerphone



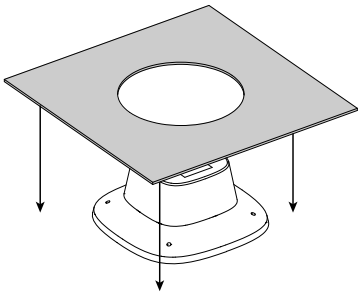
Two speakerphones

Ceiling Mount Installation

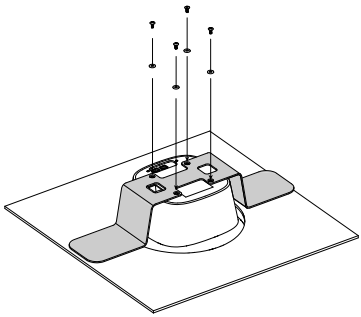
We provide 4 different methods to install your FONE700 Speakerphone. Except for the ceiling mount bracket, the rest of the brackets and cables are self-purchase accessories

Ceiling Grid Mount (Optional Accessories)

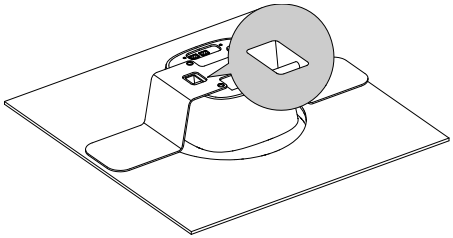
1. Remove a section of the ceiling board. Use the ceiling mount drill template to mark and cut out a hole for FONE700 Speakerphone.



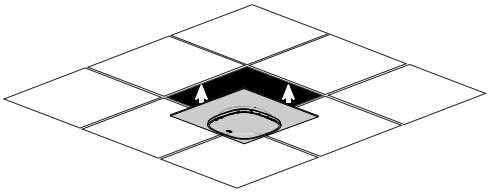
2. Secure the ceiling mount bracket with four M4 screws and washers provided in the ceiling mount kit.



3. Ensure that you secure the bracket firmly. Optionally, you can install a safety tether in the building structure and connect it to the Speakerphone's tie-off point.

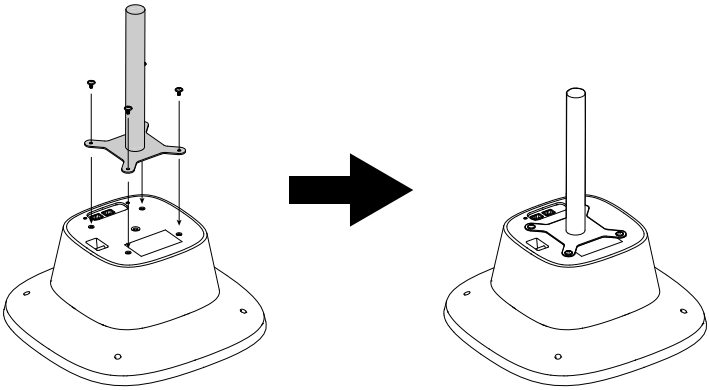


4. Reinstall the Speakerphone onto the ceiling grid.



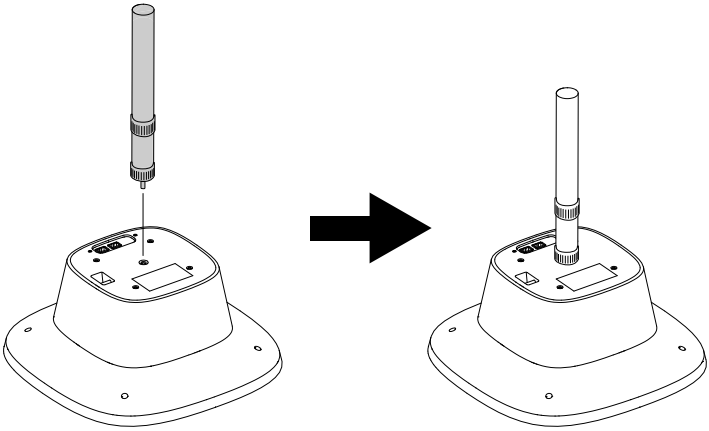
VESA Mount (Self purchase accessories)

1. Prepare a universally compatible VESA mount bracket.
2. Secure the VESA Mount with four M4 screws comes with its package.
3. Attach the bracket and the Speakerphone to the ceiling.



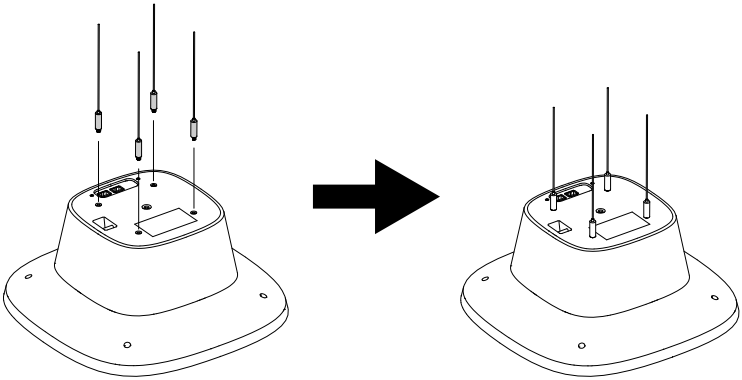
Projector Ceiling Mount (Self purchase accessories)

1. Prepare a universally compatible projector ceiling mount bracket.
2. Thread the bracket into the Speakerphone's 1/4"-20 screw hole.
3. Attach the bracket and the Speakerphone to the ceiling.



Suspension Cable Mount (Self purchase accessories)

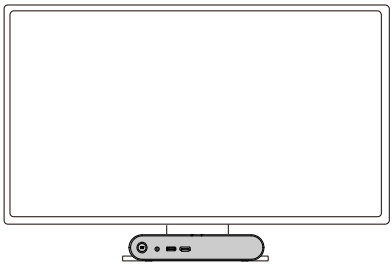
1. Prepare suspension cables compatible with four M4 screw holes.
2. Secure the cables into the Speakerphone thread holes.
3. Attach the cables and the Speakerphone to the ceiling.



Hub Installation

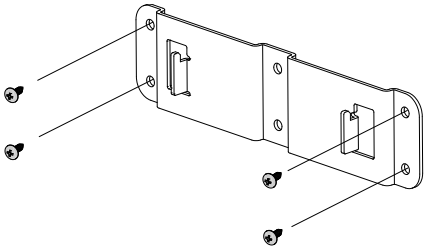
You may optionally place the hub in front of the HDMI Screen, or install it on the wall mount bracket.

Place in front of the HDMI Screen

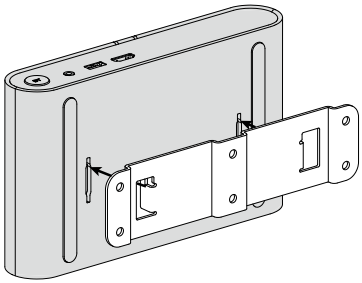


Wall Mount Installation

1. Measure the height of the hub on the wall. Note that the height varies depending on which side of the hub is facing upward.
2. Use the wall mount drill template to mark and drill the mounting holes on the wall.
3. Insert plastic anchors into the mounting holes and secure the bracket with the wall mount screw kit.



4. Position the hub on the wall mount bracket. You may decide which side faces upward.



Get Started

Before you start, download **PTZApp 2** from AVer Download Center. In **PTZApp 2**, you may set up and configure settings including **System**, **Audio** and **Audio Tracking** and more.

Install PTZApp 2

1. Download PTZApp 2 to your computer from the official website: https://communication.aver.com/model/ptzapp2 or AVer Download Center: https://www.aver.com/download-center.
2. Double-click the downloaded .exe file.
3. Follow the instructions displayed on the setup wizard to install PTZApp 2. For optimal user experience, install all plug-ins for additional features.
4. For more information, please refer to **PTZApp 2 User Manual.**

Device Setup

1. Connect FONE700 Hub to the power adapter to power up. Then connect the Hub to your computer with a USB Type-C cable.
2. Activate **PTZApp 2**. You should see FONE700 on the main menu.

Overview

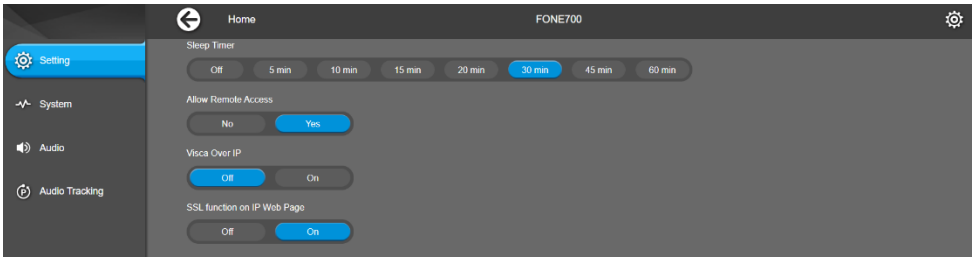
1. **Device Card**
   - Click **Settings** to configure FONE700 settings including **System**, **Setting**, **Audio** and **Audio Tracking**.
   - Click the **pencil** icon to rename the device.
   - Click the **hyperlink** icon to log in to the web application. The default password is **aver4321**.

2. Settings

Item	Description
Language	Change the **PTZApp 2** system language to English, Chinese or Japanese.
Hotkey Control	Turn hotkey on or off.
PTZApp Update	View **PTZApp 2** version or check for updates.
Usage Data	Opt-in or opt-out of providing anonymous usage data.
EZManager Pair	Pair with **EZManager** to manage all your USB-connected AVer cameras*.

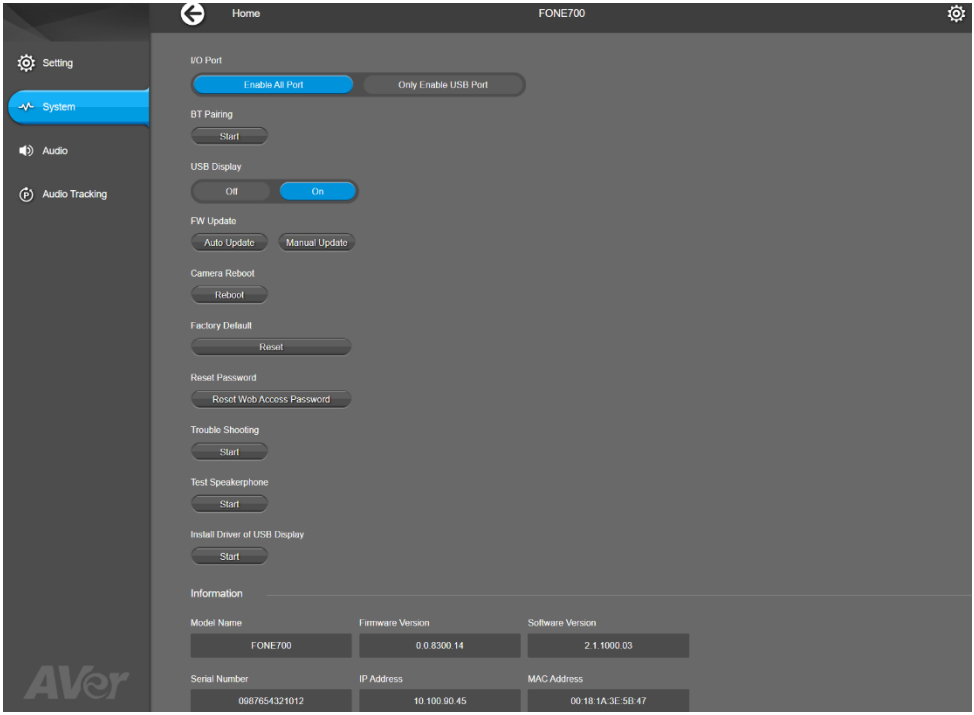
***Notes:** Will be supported in future release.

Setting



Item	Description
Sleep Timer	Select an idle time for the sleep timer. When there's no connection or the timer is up, FONE700 will enter sleep mode.
Allow Remote Access	Turn on or off the remote access function.
Visca Over IP	Sends several different control commands over the network connection.
SSL function on IP Web Page	Select **On** to enable HTTPS connection.

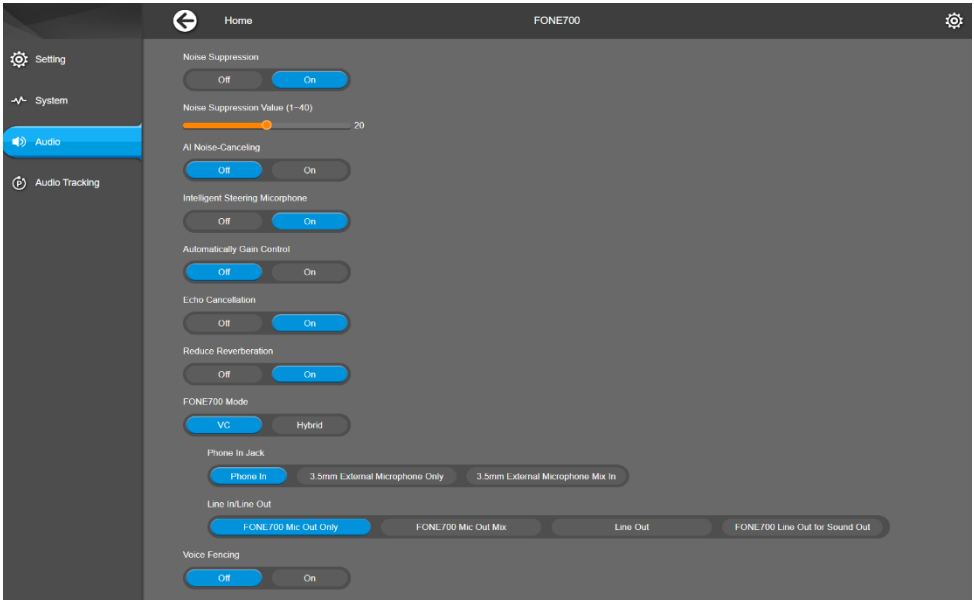
System



Item	Description
I/O Port	• **Enable All Port**: Enable all port functions. • **Only Enable USB Port**: Lock all port functions except the USB port.
BT Pairing	Click **Start** to activate Bluetooth pairing.
USB Display	Turn on the function for HDMI output.
FW Update	• **Auto Update**: Update FONE700 firmware automatically. • **Manual Update**: Upload firmware update file from your computer. The device will reboot automatically after the update.
Camera Reboot	Click **Reboot** to restart your device.
Factory Default	Click **Reset** to reset all settings to factory default.
Reset Password	Click **Reset Web Access Password** to reset the login password to the web application.

Trouble Shooting	1. Click **Start** > **Output** to save the log and download it to your computer. 2. When finished, click **Done**. You can provide the file to AVer technicians for trouble shooting.
Test Speakerphone	Click **Start,** and follow the on-screen instruction to test your FONE700 Speakerphone.
Install Driver of USB Display	For optimal HDMI output quality, please install Driver of USB Display first. 1. Click **Start** > **Open** to open the official USB Display download page. 2. Download and install the compatible software to your computer. 3. Go to **System** > **USB Display**, select **On** to activate the HDMI connection.
Information	View your device information, including **Model Name**, **Serial Number**, **Firmware Version**, **IP Address**, **Software Version**, and **MAC Address**.

Audio

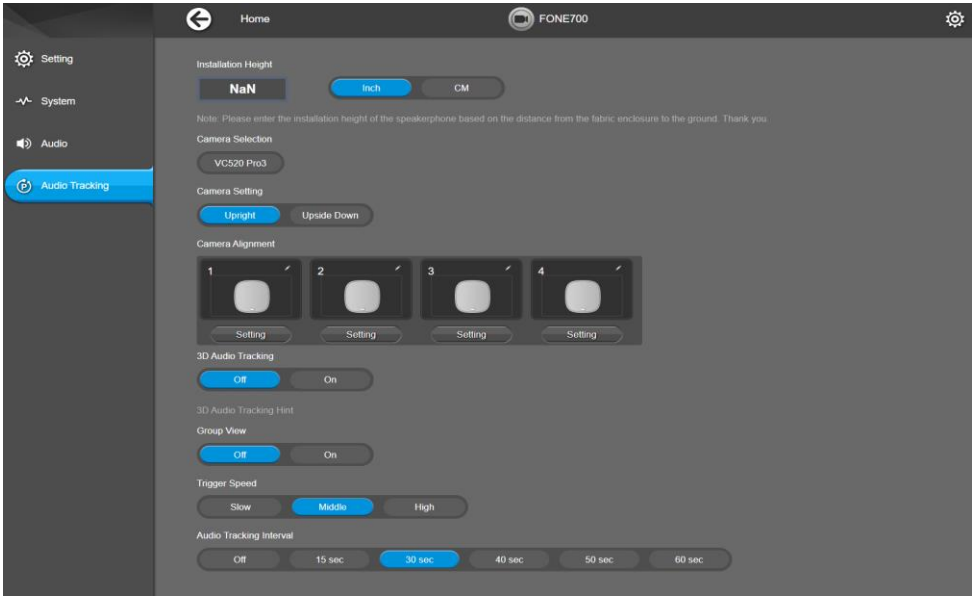


Item	Description
Noise Suppression	Reduce ambient noise.
Noise Suppression Value (1~40)	Drag the slide bar to adjust the noise suppression value.
AI Noise Cancelling	Eliminate the environmental noises. (e.g., keyboard noises)
Intelligent Steering Microphone	Enhance receiving the human voices closest to the microphone.
Automatically Gain Control	Improve and adjust the received human voices to a similar volume for the remote end.
Echo Cancellation	Reduce re-appearing sounds during online calls.
Reduce Reverberation	Reduce acoustic spaciousness.
FONE700 Mode (**VC Mode**)	Select **VC Mode** for video conferencing. Connect a mobile phone, an external microphone or speaker based on your needs. **Phone In Jack:** ● **Phone In**: Connect your mobile phone to FONE700 for use as an external speakerphone in mobile-based video conferencing. ● **3.5mm External Microphone Only**: Connect to an

	external microphone as the only audio transmitter; FONE700 microphone will be disabled. ● **3.5mm External Microphone Mix In**: Connect to an external microphone for joint audio transmission with FONE700 microphone.
	Line In/Line Out ● **FONE700 Mic Out Only**: For hearing-aid connection, FONE700 transmits only the audio received by its microphone. ● **FONE700 Mic Out Mix**: For hearing aid device connection, FONE700 will transmit audio captured by its microphone and the voice from the remote site. ● **Line Out:** Connect to an external speaker as the only audio transmitting device; FONE700 speaker will be disabled. ● **FONE700 Line Out for Sound Out**: Connect to an external speaker for joint audio transmission with FONE700 speaker.
FONE700 Mode (**Hybrid Mode**)	Select **Hybrid Mode** for concurrent local meetings and video conferencing. Connect a low-sensitivity external microphone, such as a hand-held microphone, based on your needs. **Phone In Jack**: ● **Phone In**: For an optimal user experience, this option will be disabled. ● **3.5mm External Microphone Only**: Connect to a low-sensitivity external microphone as the only audio transmitting device; FONE700 microphone will be disabled. ● **3.5mm External Microphone Mix In**: Connect to a low-sensitivity external microphone for joint audio transmission with FONE700 microphone. FONE700 will transmit its voice pickup to the remote site.
	Line In/Line Out Same as above.
Voice Fencing	Fence off background noises. (e.g., whispering)

Audio Tracking

Pair your FONE700 Speakerphone with a PTZ tracking camera. When the speakerphone detects a sound, it sends the X, Y, and Z axis direction value to the camera and triggers the camera audio tracking function.



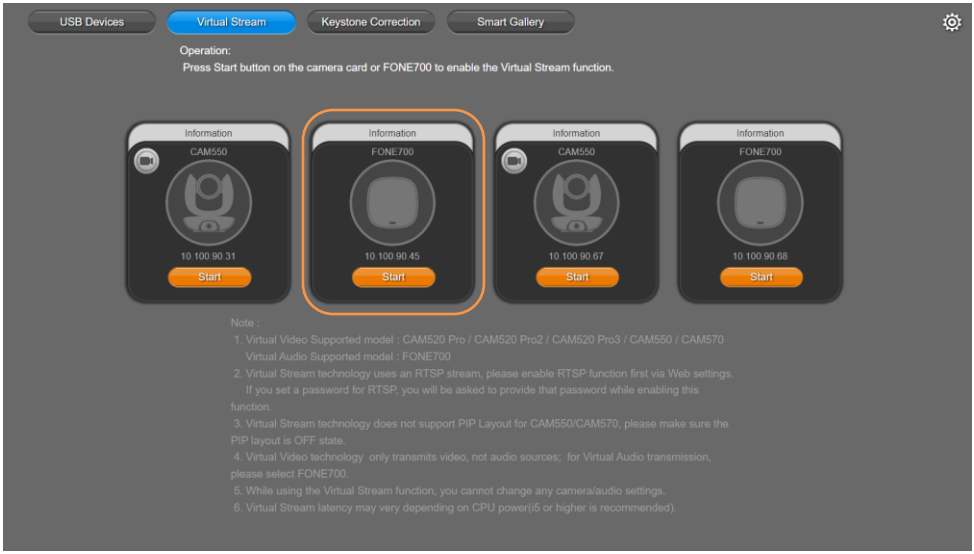
Item	Description
Installation Height	Enter the installation height of your speakerphone. You may select the measurement unit between **Inch** and **CM**.
Camera Selection	1. Connect a USB plug-and-play camera to the power adapter and USB cable. 2. Refresh **PTZApp 2** web page to check if your camera is detected. 3. Go to **Audio Tracking** > **Camera Selection** and click on your camera to pair up with FONE700 Speakerphone.
Camera Setting	• **Upright**: Select the option when you position the camera normally. • **Upside Down**: Select the option when you hang up the camera vertically.

Camera Alignment	• **Setup** 1. Select a connected camera in **Camera Selection**. 2. Click **Setting**, and follow the on-screen instruction to align your FONE700 Speakerphone. 3. After setting up the first speakerphone, select: - **Manual Alignment** to continue setting up other speakerphones with camera alignment; - **Finish and Set Speakerphone Position** to set up other speakerphones by entering their 3D distances in relation to the first one. 4. If necessary, click **Redo** to realign the speakerphone. • **Rename** Click the pencil icon on the upper right corner of the thumbnail to rename the speakerphones.
3D Audio Tracking	Turn FONE700 audio tracking on or off. Turning it on will turn off your linked camera's Audio Tracking mode.
Group View	Turn on the function to allow the camera to track and frame multiple active speakers.
Trigger Speed	Select an audio tracking trigger speed. Slower speed is useful for ignoring short utterances during audio tracking. • **Slow**: Audio track after 2~3 seconds. • **Medium**: Audio track after 1~2 seconds. • **High**: Audio track immediately.
Audio Tracking Interval	Select an interval time for the camera to return to Preset 0 after it detects no sound. If **Off** is selected, the camera will stay at the last position.

Virtual Audio Stream

Virtual audio stream allows you to send audio feed over IP to video conferencing software such as Teams, Skype and Zoom.

- FONE700 only supports virtual audio transmission.
- Virtual Stream latency may vary depending on your CPU. We recommend Intel Core i5 or higher.
- While using the Virtual Stream function, you cannot change any audio settings.



To start a virtual audio stream:

1. Make sure your FONE700 and computer running the video conferencing software are connected to the same network.
2. Go to **Virtual Stream** > click **Start** on FONE700 Device Card.
3. Open your video conferencing software. Go to **Settings** > **Audio Settings**, choose **AVer VMic Device** as the microphone, and **AVer VSpk Device** as the speaker.

To stop a virtual audio stream:

Click **Stop** on FONE700 Device Card.