AVer SAT5 Wireless Microphone Receiver User Manual

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The power cord shall be connected to a socket-outlet with earthing connection.

This product is intended to be supplied by a UL Listed Certificate power adapter and power cord, output comply with LPS or PS2, rated 19Vdc, 3.42A min., and Tma 35 degree C min. Please contact manufacturer, UL File owner or AVer for further information and assistance.

Federal Communication Commission Interference Statement
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. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not

occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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 Class B digital apparatus complies with Canadian ICES-003.

For Wireless Device:
For SAT5 Pendant Microphones:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying the RF exposure compliance.

For SAR5 Microphone Receiver:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Contents

IC Notice

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Europe – EU Declaration of Conformity
This device complies with the essential requirements of the Radio Equipment Directive (2014/53/EU). The

following test methods have been applied in order to prove presumption of conformity with the essential requirements of the Radio Equipment Directive (2014/53/EU).

DISCLAIMER

No warranty or representation, either expressed or implied, is made with respect to the contents of this documentation, its quality, performance, merchantability, or fitness for a particular purpose. Information presented in this documentation has been carefully checked for reliability; however, no responsibility is assumed for inaccuracies. The information contained in this documentation is subject to change without notice.

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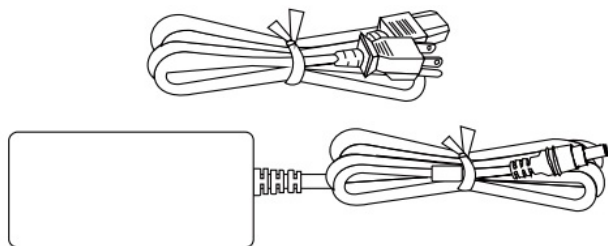
COPYRIGHT

Overview

Package Contents

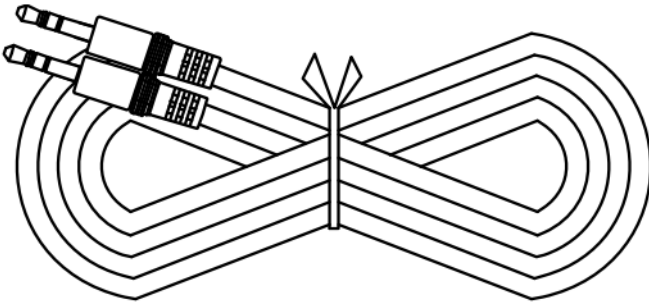#### SAB5V2 Streaming Audio Box

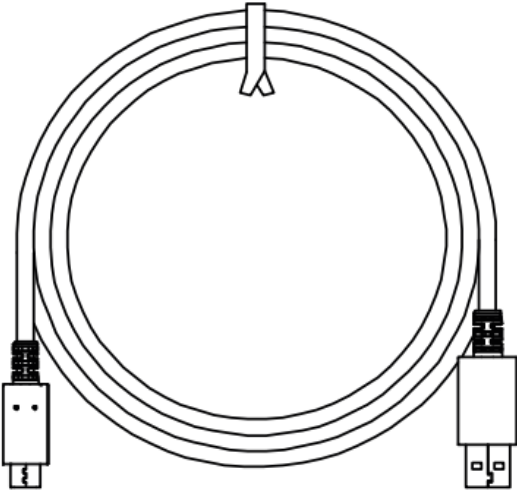- SAB5V2 Streaming Audio Box
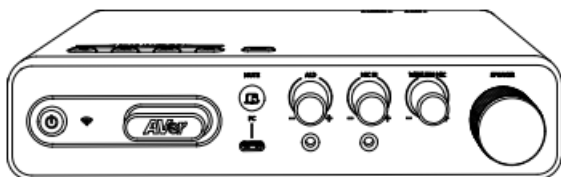
- Power Adapter & Power Cord(s)

- 3.5 Stereo to 3.5 Stereo Cable (10m)
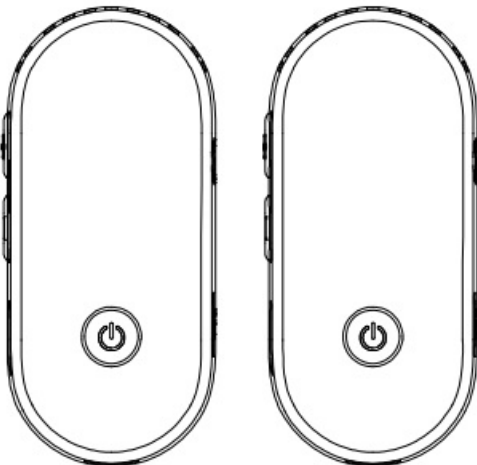
- USB 3.0 Type-C to Type-A Cable (1.83m)

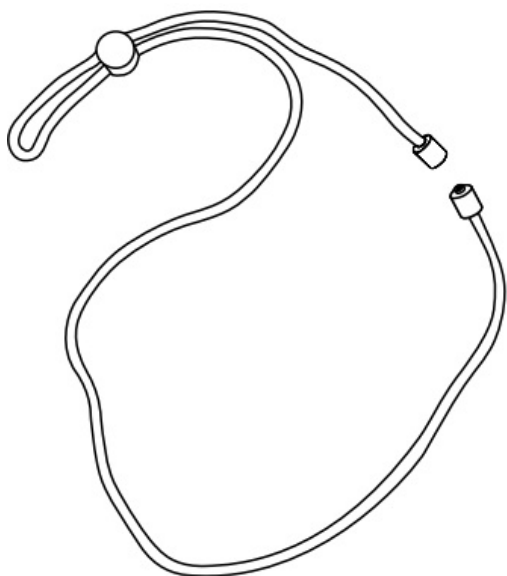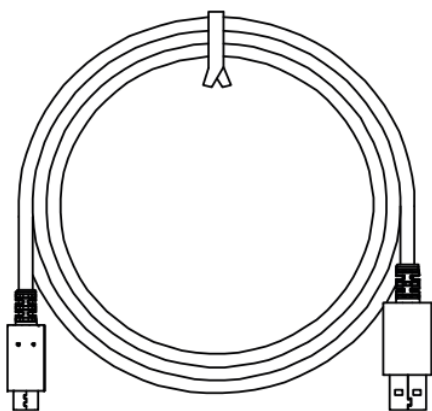- SAB5V2 QR Code Card

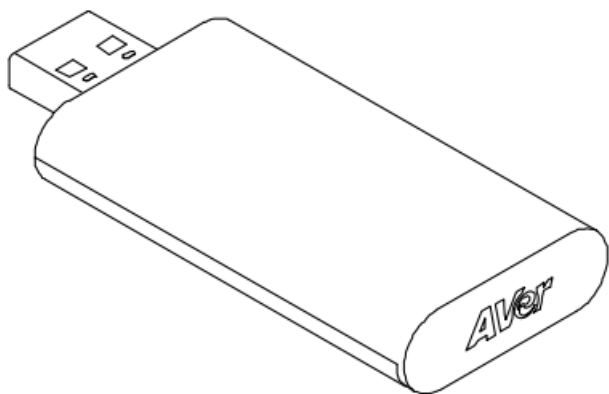## Pendant Microphones

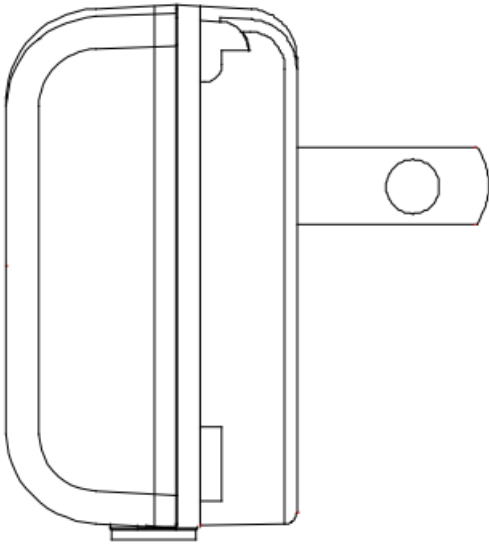- SAT5 Pendant Microphones

- Lanyard (x2)

- USB 3.0 Type-C to Type-A Cable (1.5m)

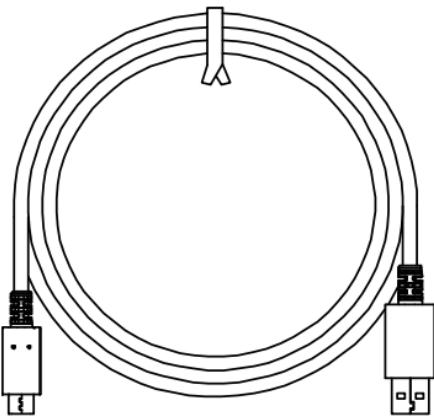- SAR5 Microphone Receiver (Dongle)

- Wall Mount Type Adapter

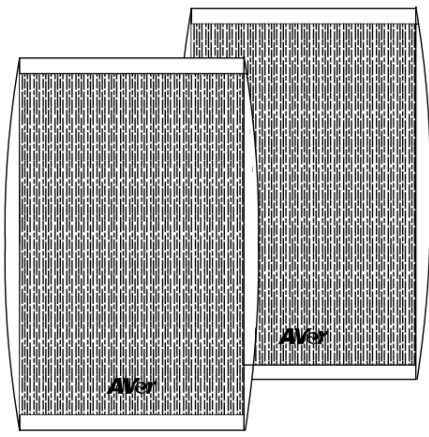**Pendant Microphones Optional Accessories**

- SAC5 Charging Case
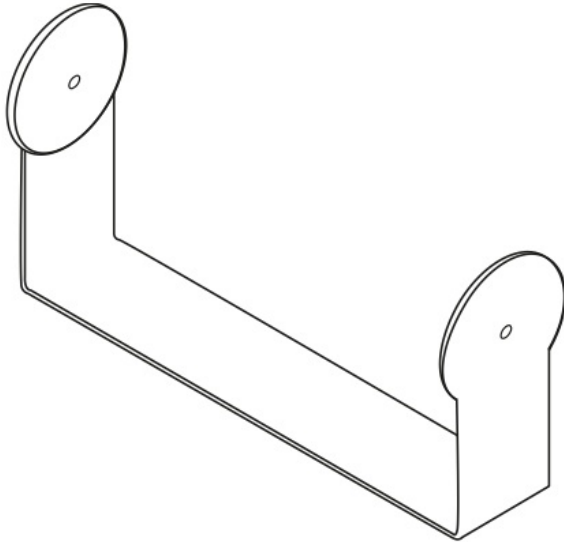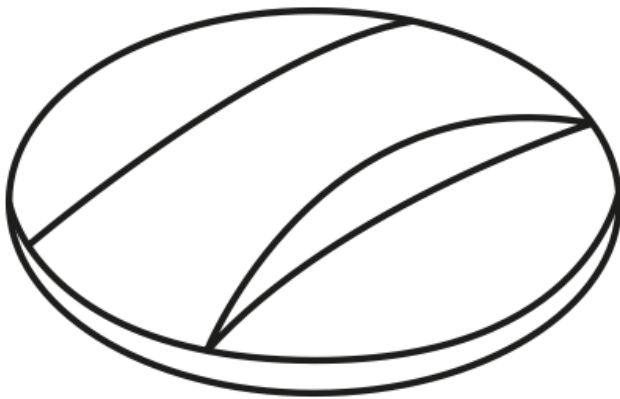
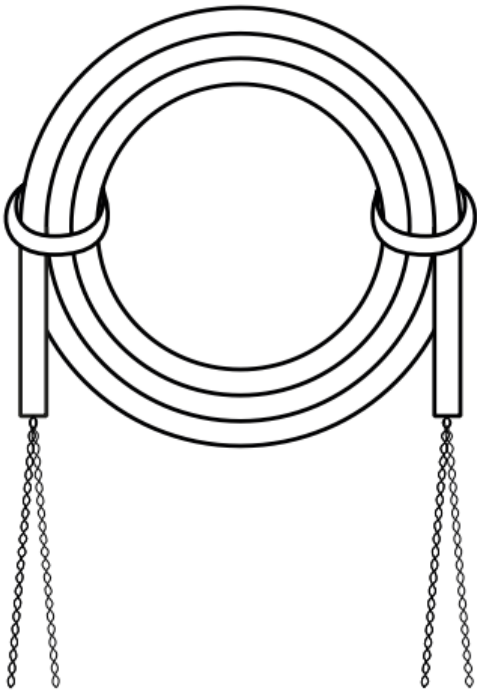- USB 3.0 Type-C to Type-A Cable (3m)
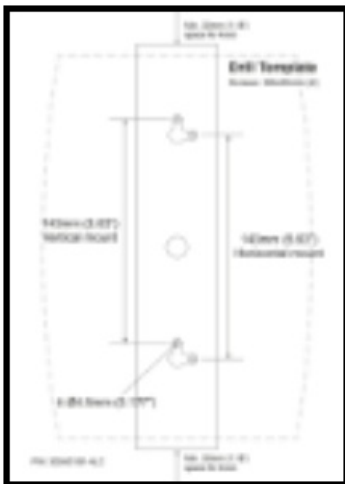
Speakers

- Speakers

- Wall Mount Bracket (x2)

- Bracket Knob (x4)

- Speaker Cable (20m)

- Drill Template (x2)

- SAA5 QR Code Card

Dimensions

- **SAB5V2 Audio Streaming Box**

210mm (8.27")

110mm (4.33")

48mm (1.89")

MUTE ALD MIC IN WIRELESS MIC SPEAKER

PC

- **Charging Case**

122.3mm (4.81")

88.7mm (3.49")

51.3mm (2.02")

- **Pendant Microphones**

33mm (1.30")

MIC IN

USB

SOS

73.3mm (2.89")

20.2mm (0.80")

- **Speakers**

170mm (6.69")

150mm (5.90")

250mm (9.84")
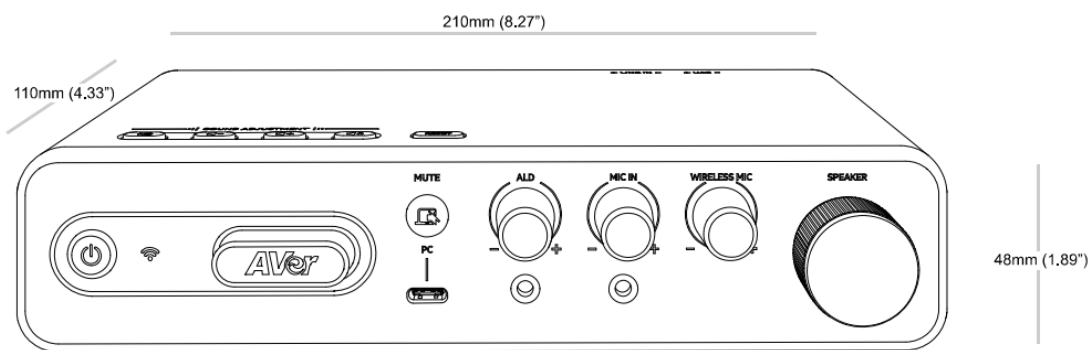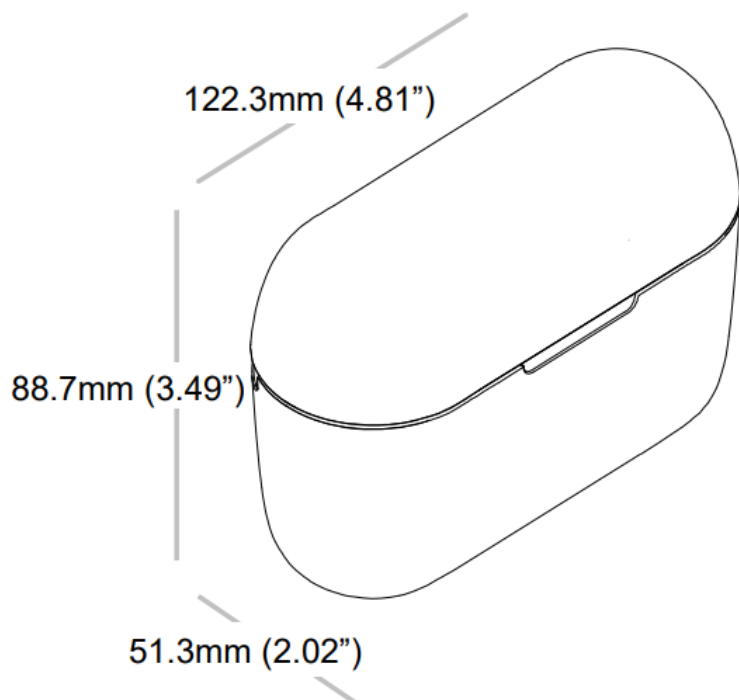
Controls and Connections

SAB5V2 Streaming Audio Box
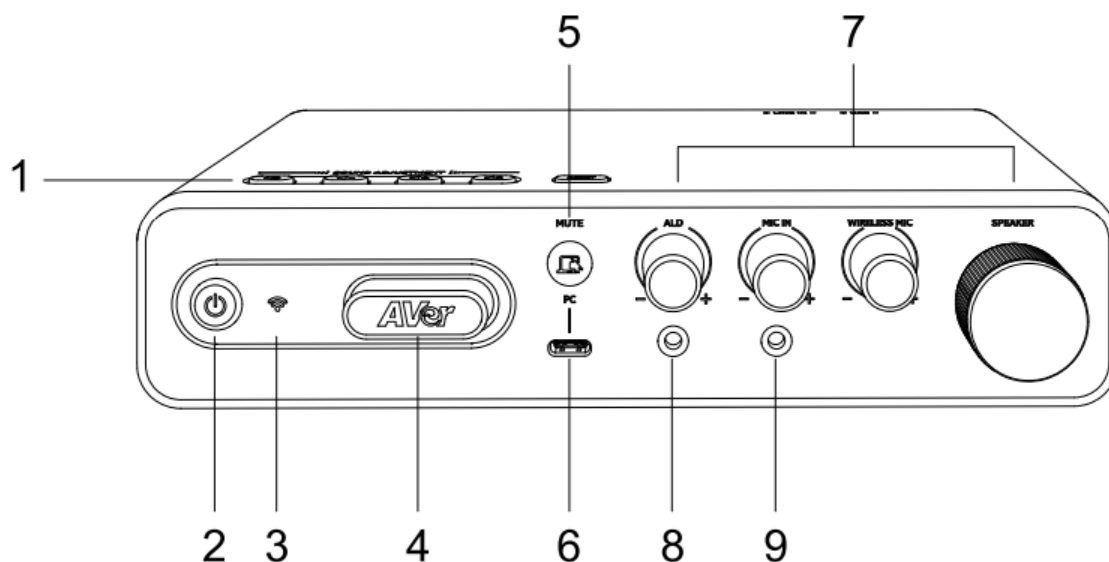
Top Cover

1. Sound Adjustment Buttons

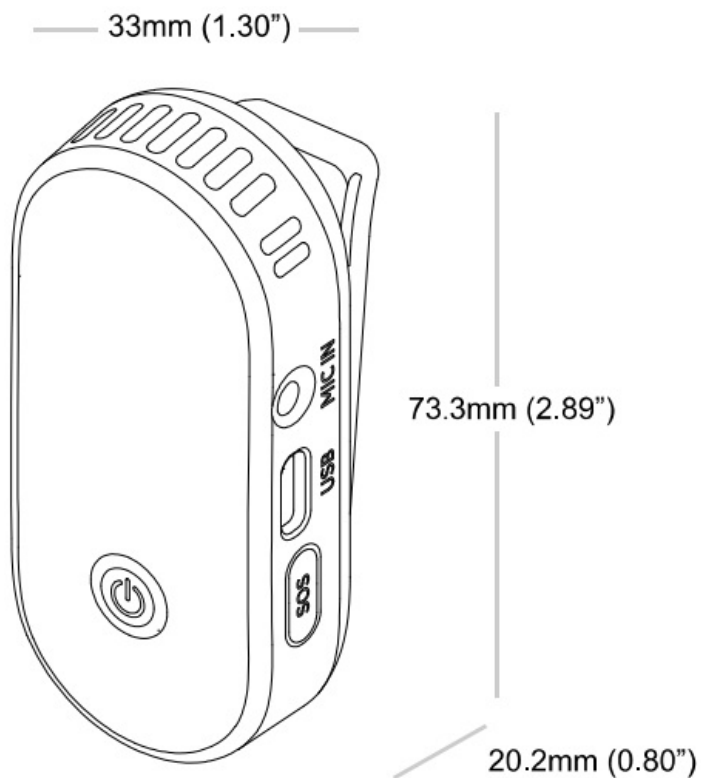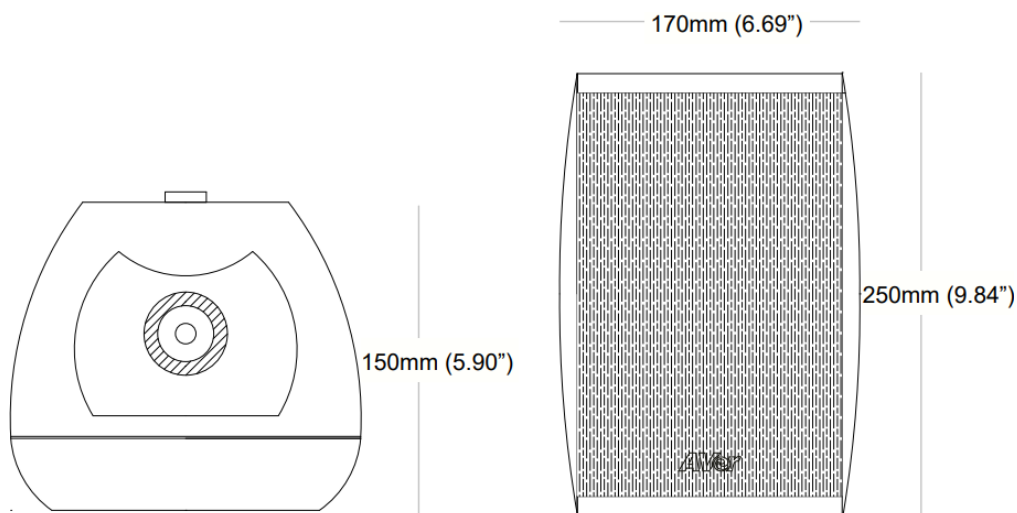   **Front Panel**
2. Power Button

   Short press: Power on.

   Long press for 5 seconds: Enter Standby Mode.

   🟢 **Solid green:** Power on

   ✳️ **Flashing green:** Start-up

   🔴 **Solid red:** Wake-on-LAN mode (when connected to power)

   ✴️ **Flashing red:** Updating firmware

   🟠 **Solid orange:** Input lock mode
3. Status LED

Solid blue: Microphone(s) is paired

Off: Microphone(s) isn't paired

4. Microphone Receiver (Dongle) Slot and Plug
5. PC Mute Button

Solid red: PC is muted

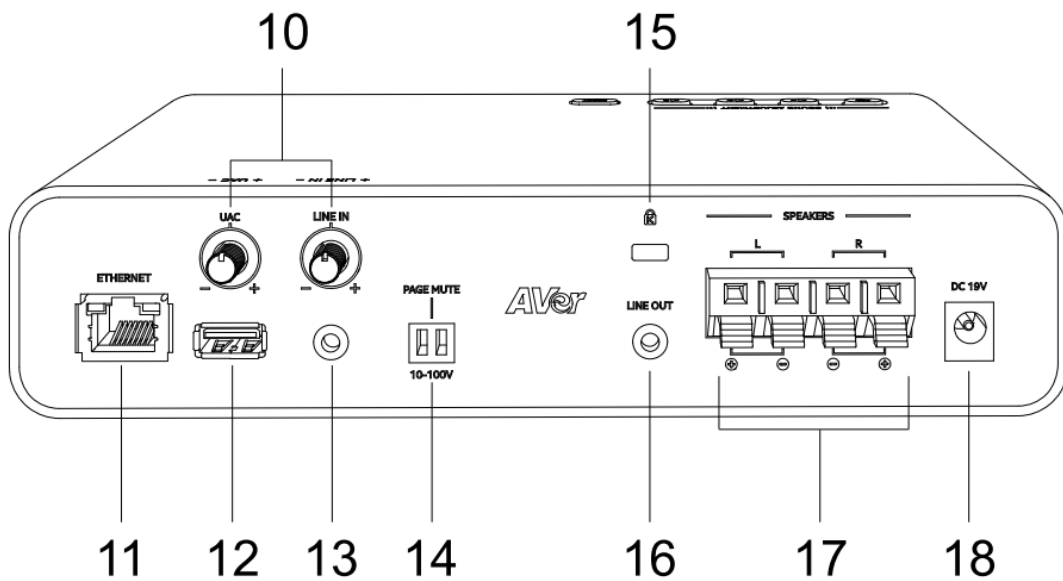**Off:** PC isn't muted

6. PC (USB Type-C) Port
7. Volume Controls:

    Assistive Listening Device (ALD) / Mic In / Wireless Mic / Speakers

8. Assistive Listening Device (ALD) Port
9. Mic In Port

Back Panel

10. Volume Controls:

    USB Audio Class (UAC) / Line In

11. Ethernet Port
12. USB Type-A Port
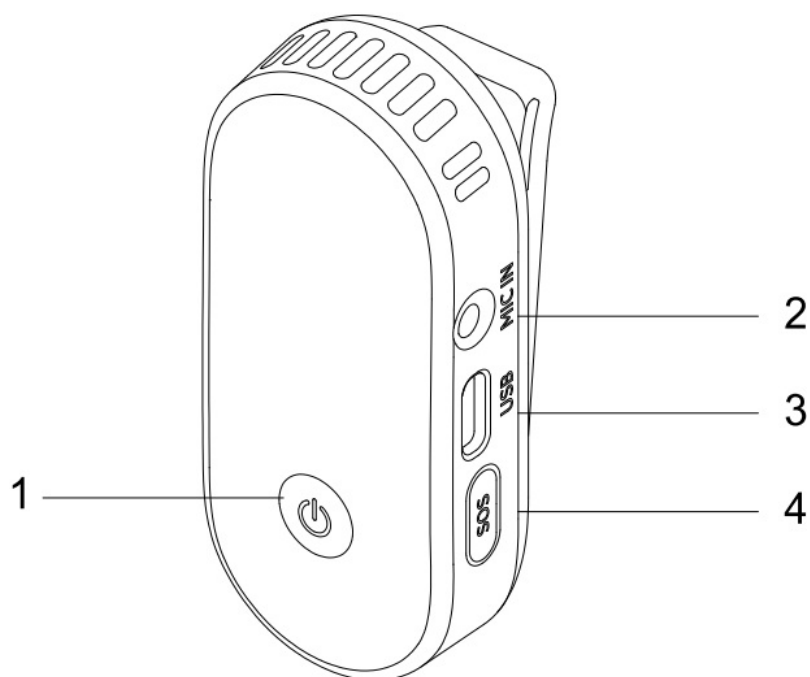13. Line In Port
14. Page Mute Port
15. Kensington Lock
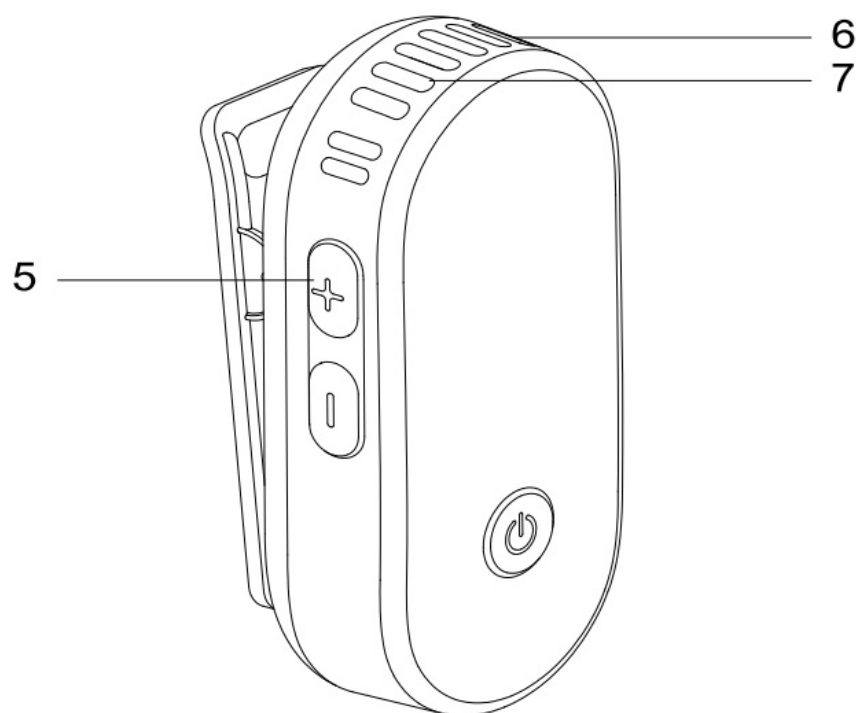16. Line Out Port
17. Speaker Push-in Terminal Connector Block
18. DC Power Jack

Pendant Microphones

1. Power/Mute Switch Press and hold for 3 seconds to turn the microphone on or off.

2. Mic In Port

3. USB Type-C Port

4. Emergency Button (on Teacher Microphone)

5. Volume Up/Down

6. Battery LED

  Solid green: Normal

  Flashing red: Low battery

7. Status LED

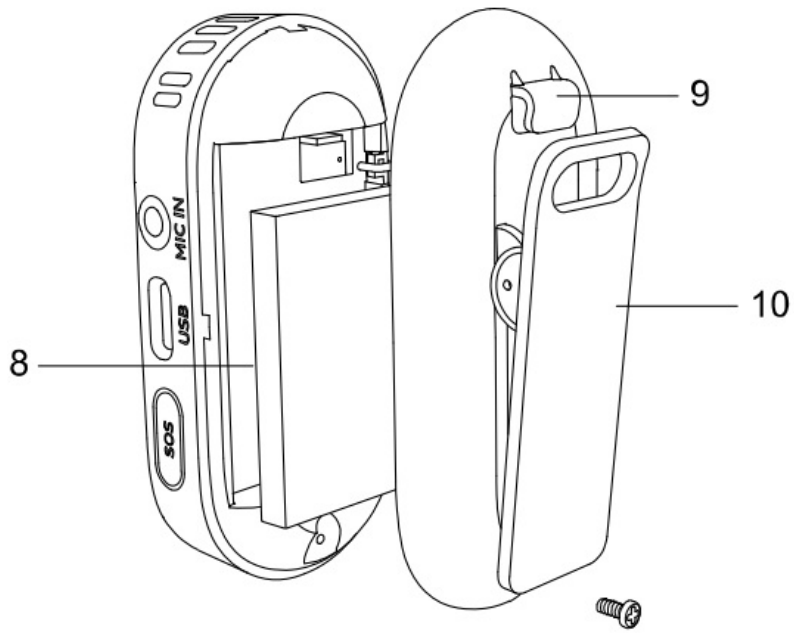 **Solid blue:** Paired

  Flashing blue: Not transmitting to a receiver or out of range
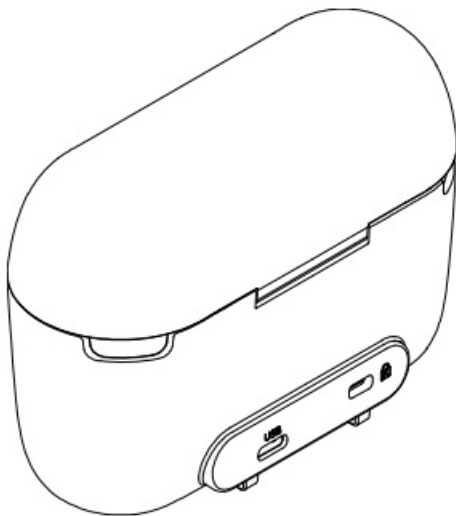
  Solid red: Mute

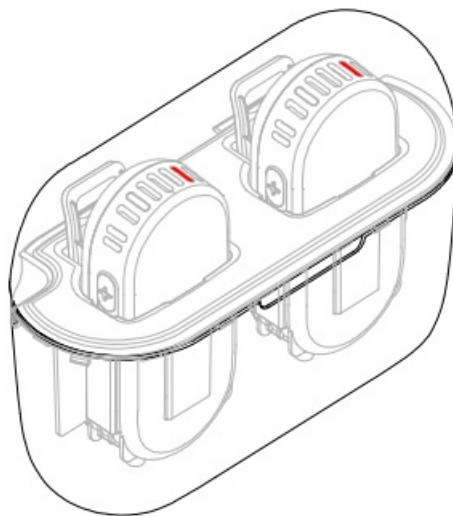★ **Flashing red:** Low battery

8. Battery Door

9. Lanyard Hook

10. Microphone Clip

Charging Case

USB Type-C Port Kensington Lock

🟢 **Solid green:** Fully charged

🔴 **Solid red:** Charging

Speakers
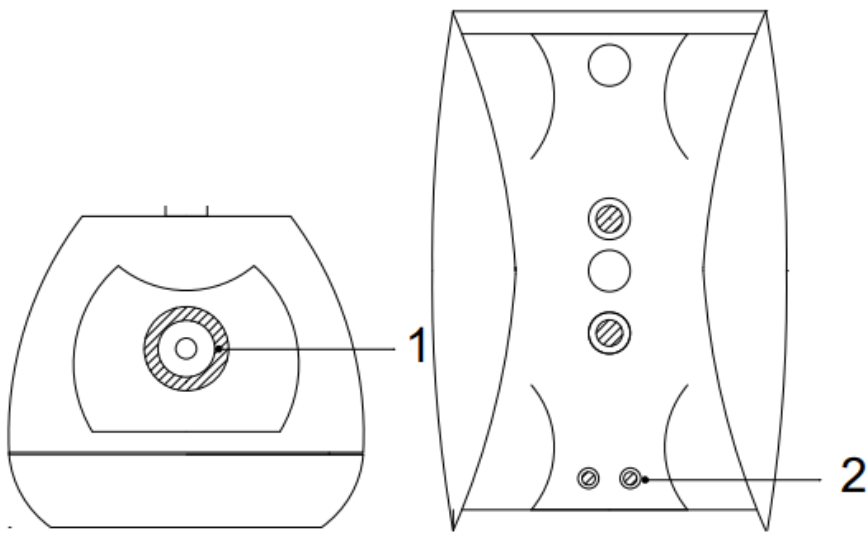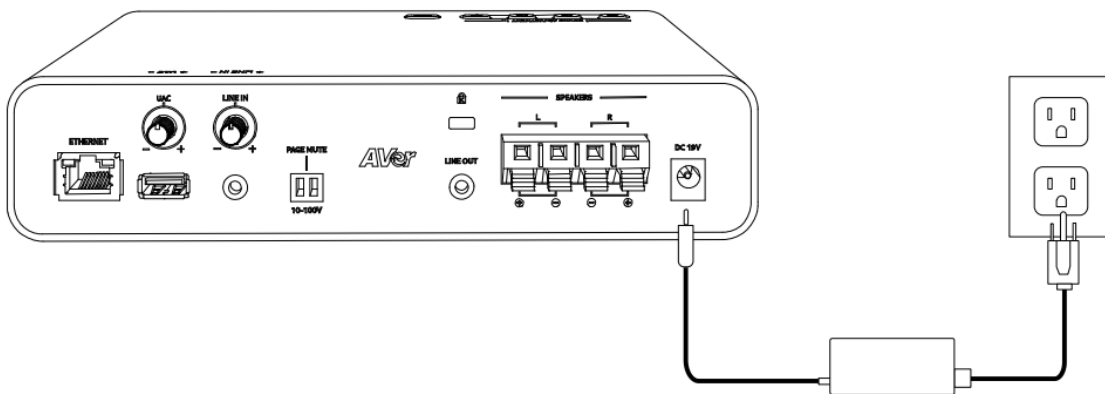
1. Wall Mount Bracket Knob
2. Speaker Spring Binding Post Terminal Connector
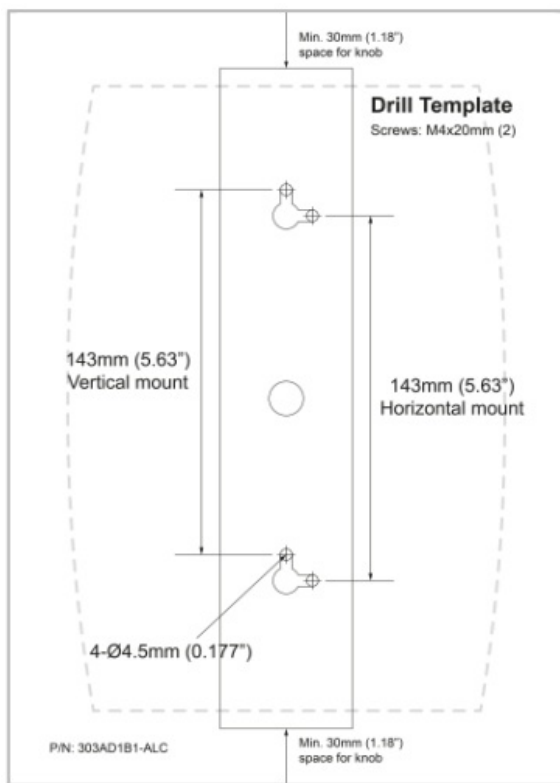
Power Connection

Connect the included power adapter and power cord to a power outlet with earthing connection.

Wall Mount Installation

The speakers should be mounted 2.13m (7 feet) from a wall outlet.

1. Level and tape the template to the wall. Drill pilot holes through the template and into the wall.

Drill Template
Screws: M4x20mm (2)

Min. 30mm (1.18")
space for knob

143mm (5.63")
Vertical mount

143mm (5.63")
Horizontal mount

4-Ø4.5mm (0.177")

P/N: 303AD1B1-ALC

Min. 30mm (1.18")
space for knob

2. Remove the template and insert anchors.

- **Cement wall:** M4x20mm self-tapping screws (2) + plastic conical anchor
- **Wooden wall**: M4x20mm self-tapping screws (2)

3. Insert screws through the bracket and tighten to the wall.
4. **Connect your speaker cables** to the spring binding post terminal connectors.
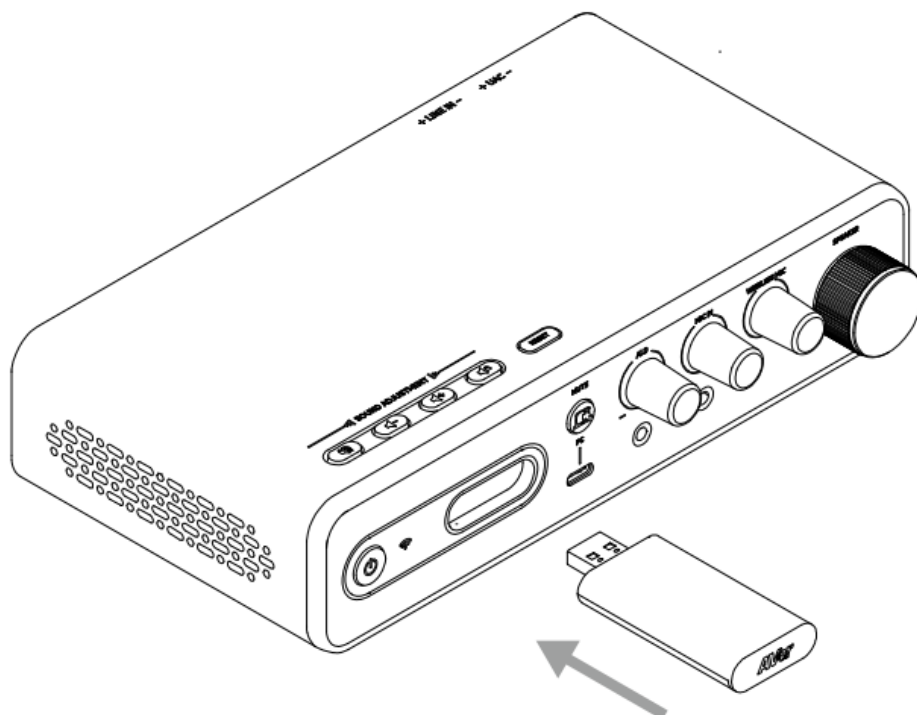5. Place the speaker inside the bracket and tighten the top and bottom bracket knobs to secure.
6. Loosen the bracket knobs to adjust the speaker angle as needed.

Getting Started

Set up Your SAB5V2 Streaming Audio Box
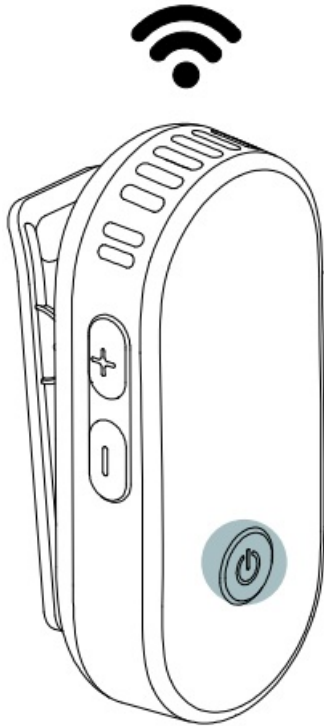Insert the Microphone Receiver (Dongle)

1. Remove the plug and insert the microphone receiver (dongle) included in the SAA5 Streaming Audio System.
2. Short press the Power button to turn on the SAB5V2 Streaming Audio Box.

Note: Hot-plugging may damage your device. Please plug in the receiver before powering on and unplug it after powering off

Set up Your Microphone

Pair Your Pendant Microphone

🔵 **Solid blue:** Paired

✦ **Flashing blue:** Not transmitting to a receiver or out of range

1. Make sure you have inserted the microphone receiver (dongle) and turned on the SAB5V2 Streaming Audio Box.
2. Press and hold the Power/Mute button on the microphone for 3 seconds until you see a solid green light, then release the button to continue the pairing process.
3. Pairing is successful when the status LEDs on both the microphone(s) and the SAB5V2 Streaming Audio Box turn solid blue.
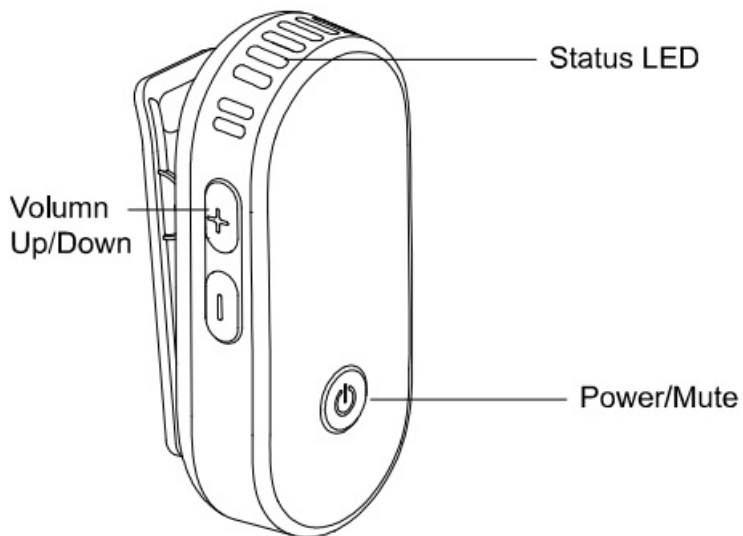
Use Your Microphone

Please follow the instructions below for optimal audio quality.

1. Tuck the lanyard through the hook and pull hard to secure the lanyard. Then wear it around your neck.
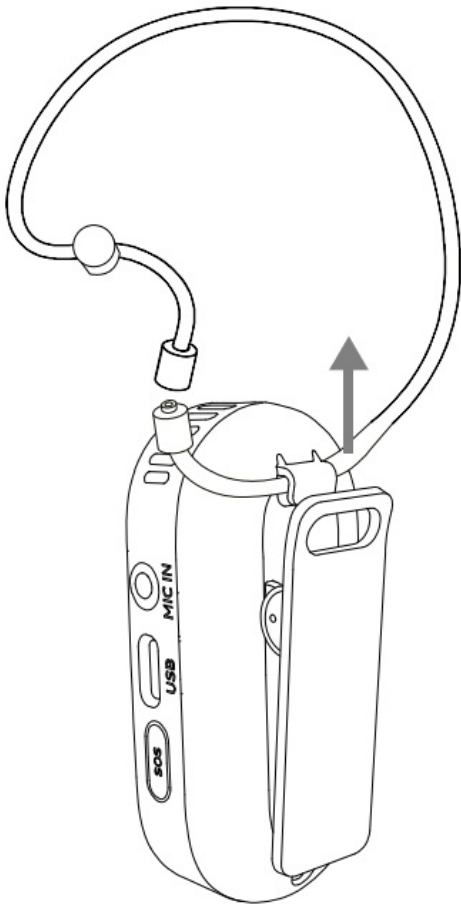
2. Adjust the lanyard to position the microphone approximately 15cm (5.9") from mouth.

3. Press and hold the Power/Mute button for 3 seconds to power on > press again to mute > press and hold for 3 seconds to power off.

15cm (5.9")
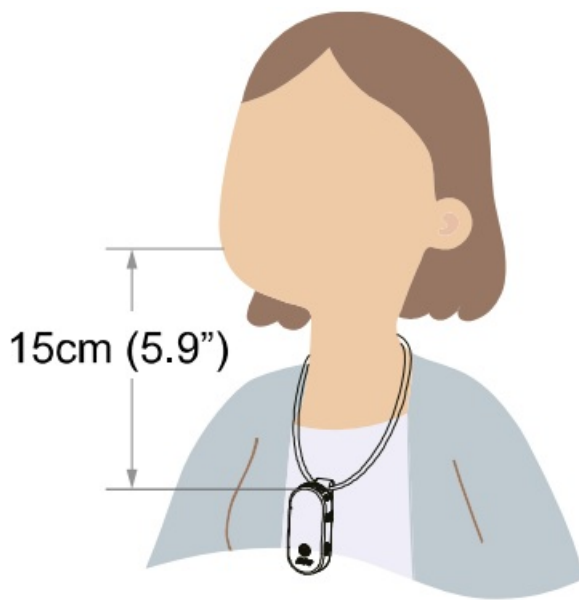
4. Adjust the volume with the Volume Up/Down buttons on the side of the microphone.

5. The microphone will automatically turn off:

   - When it is out of range and after 3 minutes of trying to connect.
   - After being muted for 30 minutes.

    Solid blue: Paired

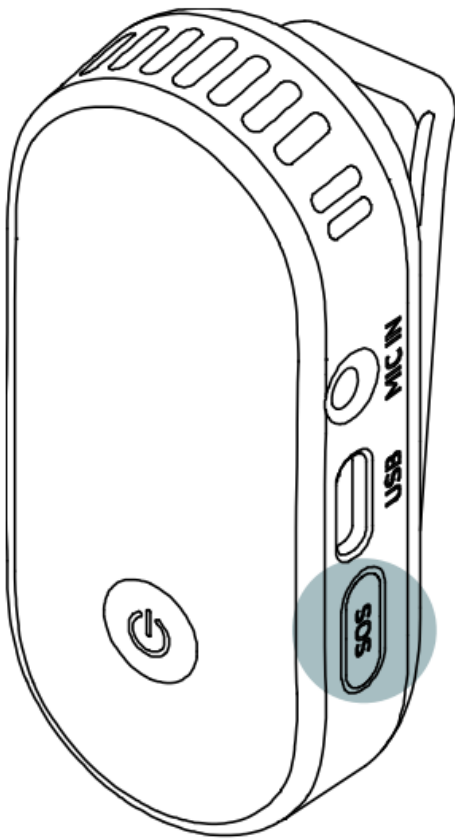   **Flashing blue:** Not transmitting to a receiver or out of range

    Solid red: Mute

    Flashing red: Low battery

For Emergencies

The emergency feature is only available in the US

1. Connect the SAB5V2 Streaming Audio Box to your local network with an Ethernet cable and the Device Management software.
2. Press and hold the SOS button on the Teacher Microphone for 3 seconds to broadcast your location.
3. Both status LED and battery LED will flash red.
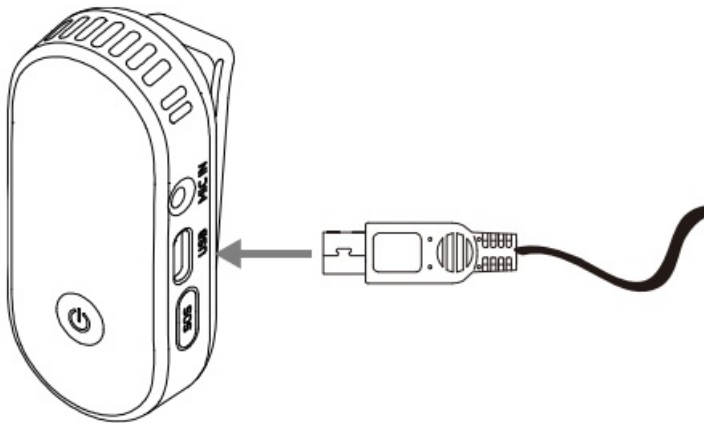4. Your microphone will work normally after pressing the button.

⭐ Status LED and battery LED flash red
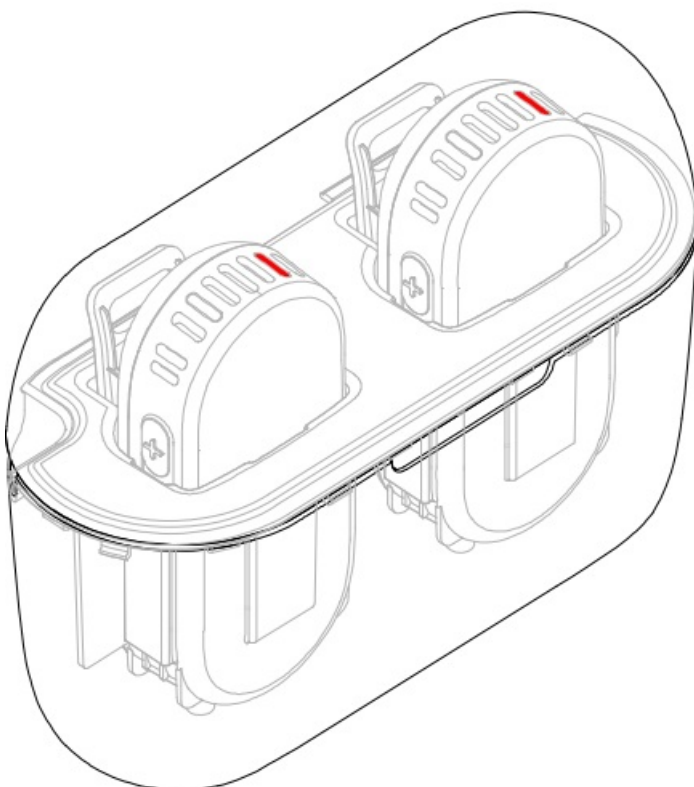
Charge Your Microphone

- It will take less than 3 hours to fully charge your microphones.
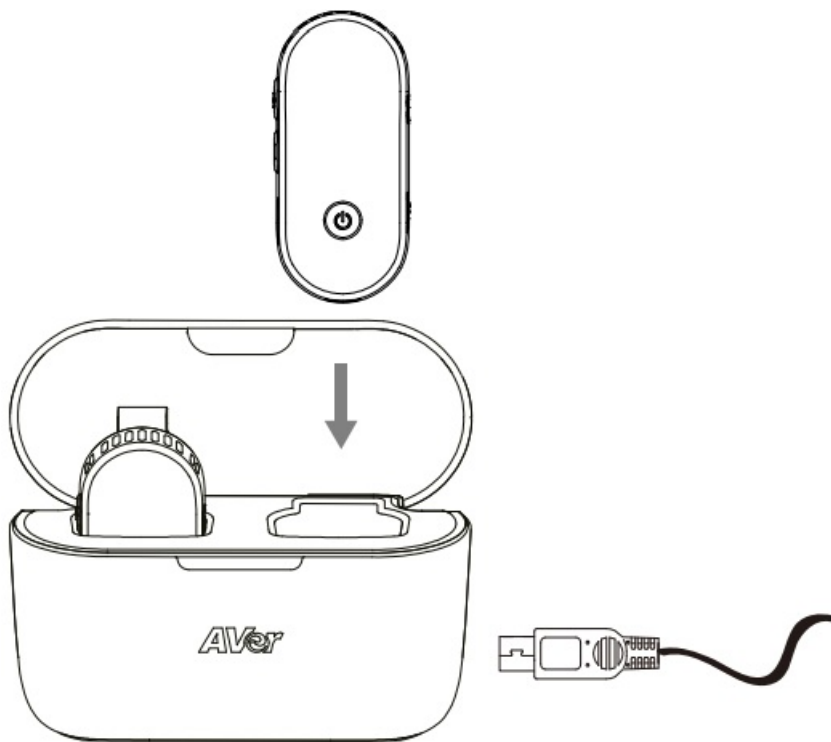
- Your microphone can get up to 8-10 hours of talk time on a single charge.

- 10 minutes of charge will provide 1 hour of talk time

To charge, plug your charging case or microphone into a power source using the included USB Type-C cable

The status LED lights on the microphones can be seen through the lid.
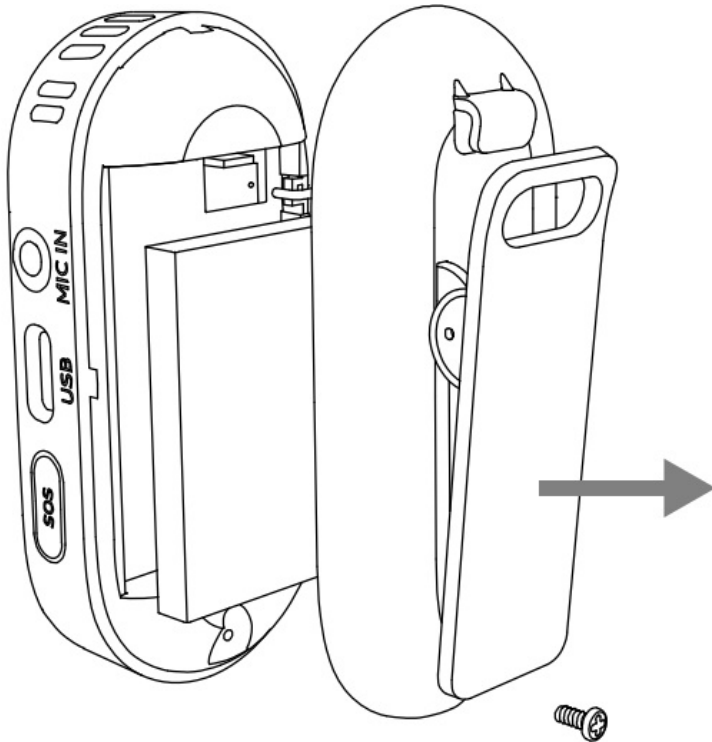
🟢 **Solid green:** Fully charged

🔴 **Solid red:** Charging

Replace Your Microphone Battery

[Note] The battery should be replaced by its manufacturer, service technician or a similarly qualified person.

1. Turn off the microphone. Loosen the screw and open the battery door
2. Remove the battery by gently pulling up from the notch on the bottom.
3. Insert the replacement battery, close the battery door, and tighten the screw.

Set up Your Speakers

Connect Your Speaker Cables

1. Push down the spring binding post terminal connector on the back of your speakers to reveal the hole.
2. Insert the stripped end of the speaker wire into the hole in the center of the terminal connector.
   Make sure that the wire is connected to the correct terminal. The red wire should be connected to the red terminal, and the black wire should be connected to the black terminal.
3. Release the terminal connector. Make sure the wire is held securely and there are no loose strands.
4. Repeat the process for the other speaker wire.

Audio Features

Page Mute

When the page mute input terminal sense a strong enough signal, it will automatically mute all other audio inputs sources. This is to allow that everyone can hear the broadcasts from the Public Address System
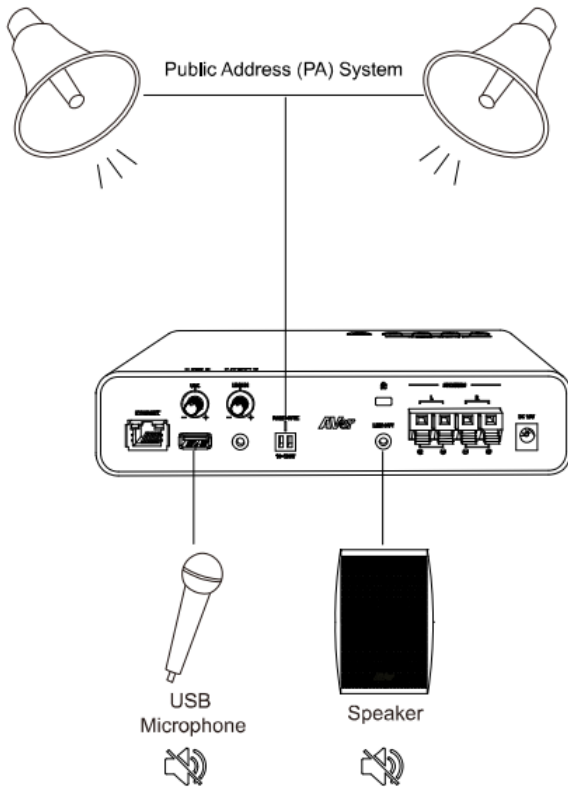

Audio Output to Assistive Listening Devices (ALD)

Assistive listening devices (ALD) can help students hear a teacher speaking across the room or hear a conversation in a noisy room.
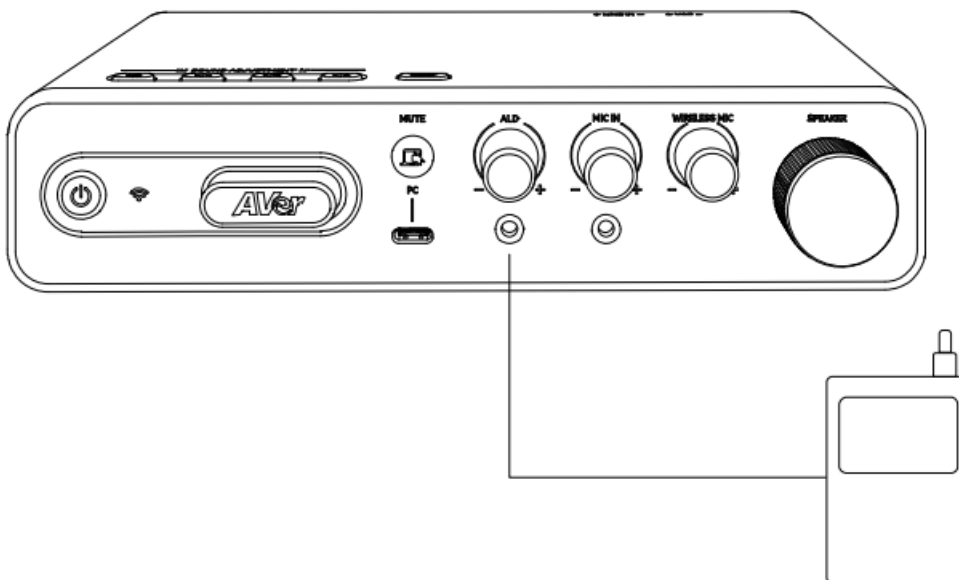

1. Turn the ALD volume control all the way down on the SAB5V2 Streaming Audio Box.

2. Plug your transmitter into the ALD port on the front panel of the SAB5V2 Streaming Audio Box using the included 3.5mm to 3.5mm stereo cable.

3. Speak into the microphone and slowly adjust the volume control for a suitable audio level.
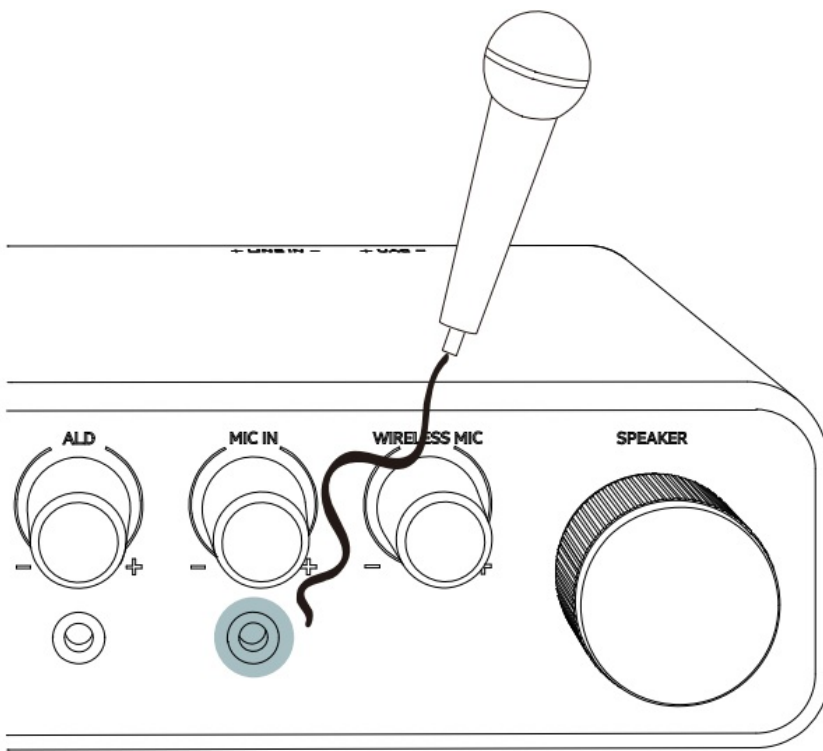
In the Classroom
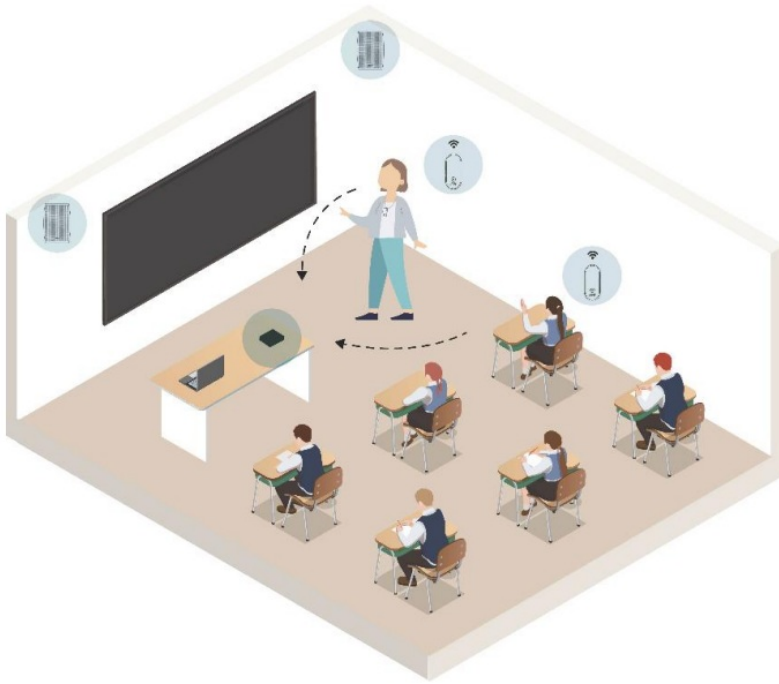
1. Short press to turn on the SAB5V2 Streaming Audio Box. Press and hold the Power/Switch button for 3 seconds to **pair your pendant microphone.**
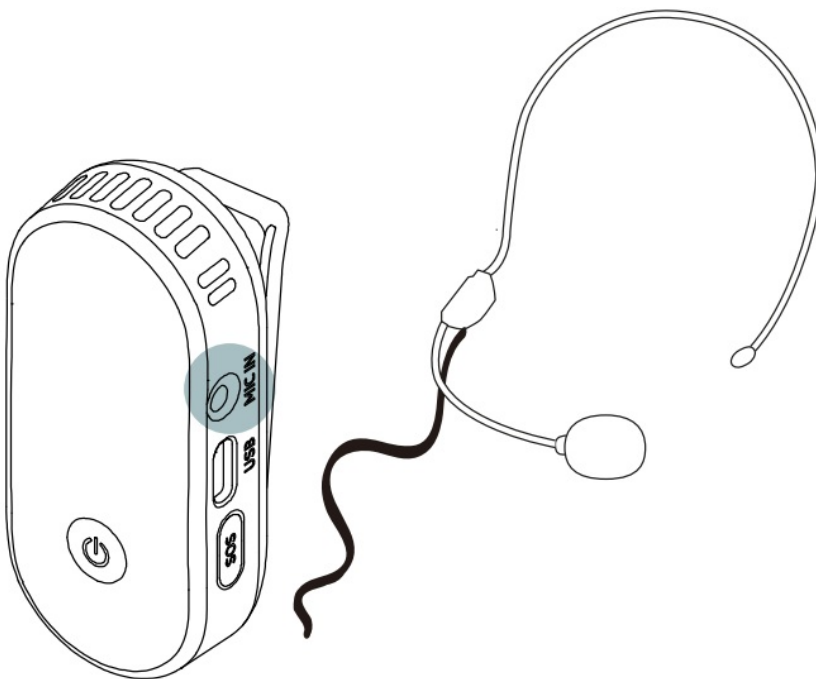

2. Or use a wired microphone by:"

- Plugging it into the Mic In port on the pendant microphone that has been paired with the SAB5V2 Streaming Audio Box.
- Plugging it into the Mic In port on the front panel of the SAB5V2 Streaming Audio Box.

Hybrid Learning

1. Short press to turn on the SAB5V2 Streaming Audio Box. Press and hold the Power/Switch button for 3 seconds to pair your pendant microphone.
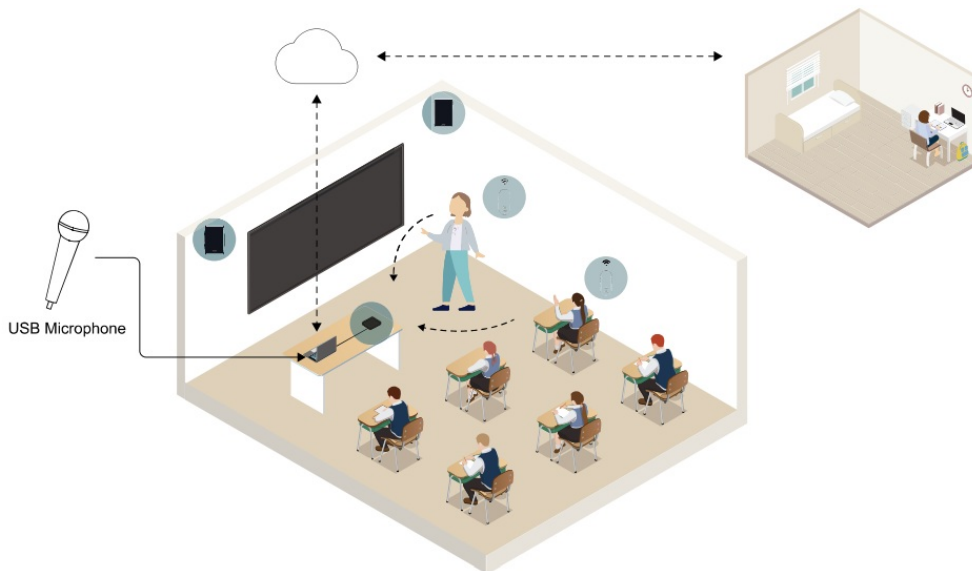

2. Connect devices. A slight popping sound during connection is considered a normal phenomenon.

PC Mute

USB Type-C to Type-A
cable (included)

Audio

Laptop
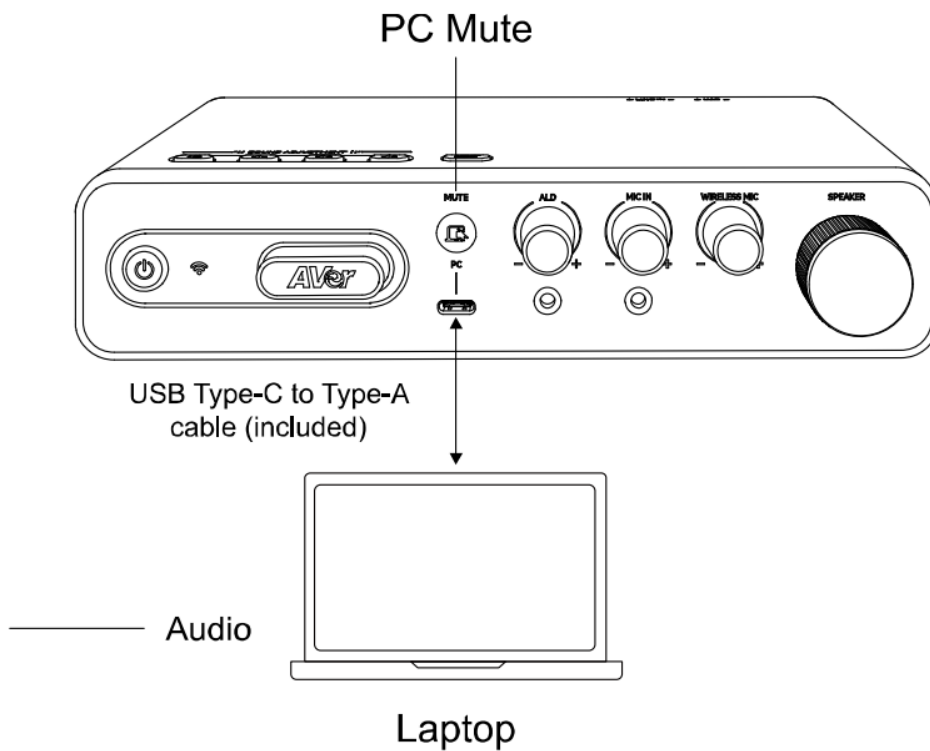
- **USB microphone**

  When using your pendant or wired microphone, make sure your USB camera's built-in microphone (if any) is turned off to reduce feedback.

3. Open your video conferencing software, such as Google Meet, Skype, Microsoft Teams or Zoom, and select "SAB5 Series" as the microphone and speaker source.

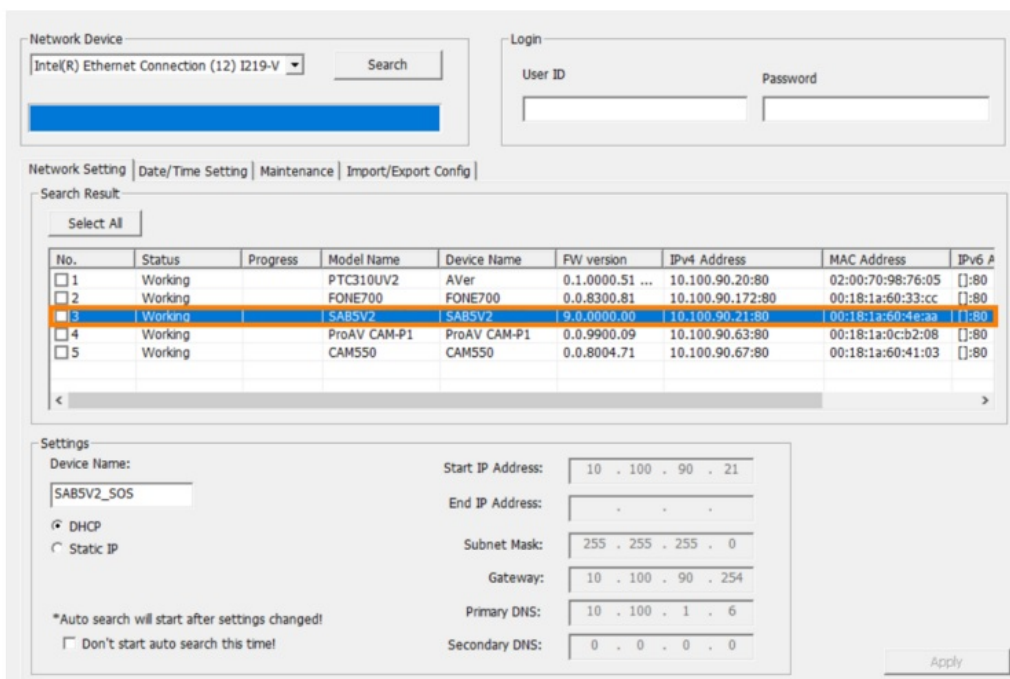4. Sound Adjustment Button behaviors:
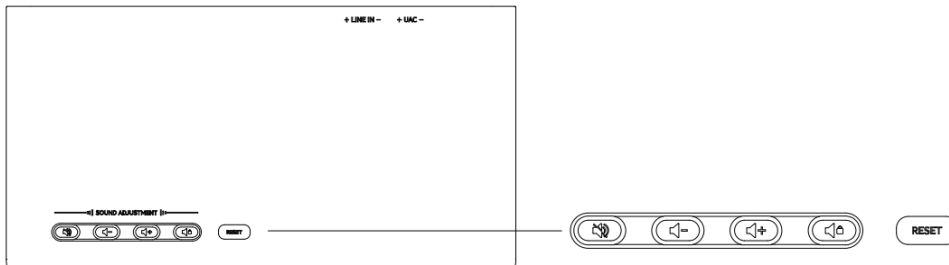
5. How to use the PC Mute button:

- Press to mute PC speakers and sounds from online students to reduce distraction in class. They will still be able to hear you

Icon	Action	Function
	Press and release	Mute the whole Audio System.
	Short press	Lower volume in steps.
	Long press	Lower volume continuously.
	Short press	Raise the volume in steps.
	Long press	Raise the volume continuously.
	Press and release	Lock / unlock the current volume settings, except the wireless microphone (RX) input.
RESET	Press and hold (10 seconds)	Reset to factory default settings.

Web Application Settings

Access to the web application

1. Connect your SAB5V2 Streaming Audio box to the power adapter and the Ethernet cable.
2. To find your SAB5V2 Streaming Audio Box IP address, download the AVer IPCam Utility from **https://www.aver.com/Downloads/search?q=AVer%20IPCam%20Utility%20for%20Camera%20IP%20Searchin**g and launch the application.
3. Click Search to view all available devices on the screen.
4. Select your SAB5V2 Streaming Audio Box from the device list to view more information in the Settings field. ,..
5. Double click on the IPv4 Address field to open the web application in your internet browser

Login

1. Enter the default Username and Password: admin / admin to log in.

2. For first time login, the system will ask you to change your Username and Password.

3. Read anonymous usage data policy. Select the checkbox to agree, and then click Done.
4. Log in with your new Username and Password. You will see the web application main page

Device Status
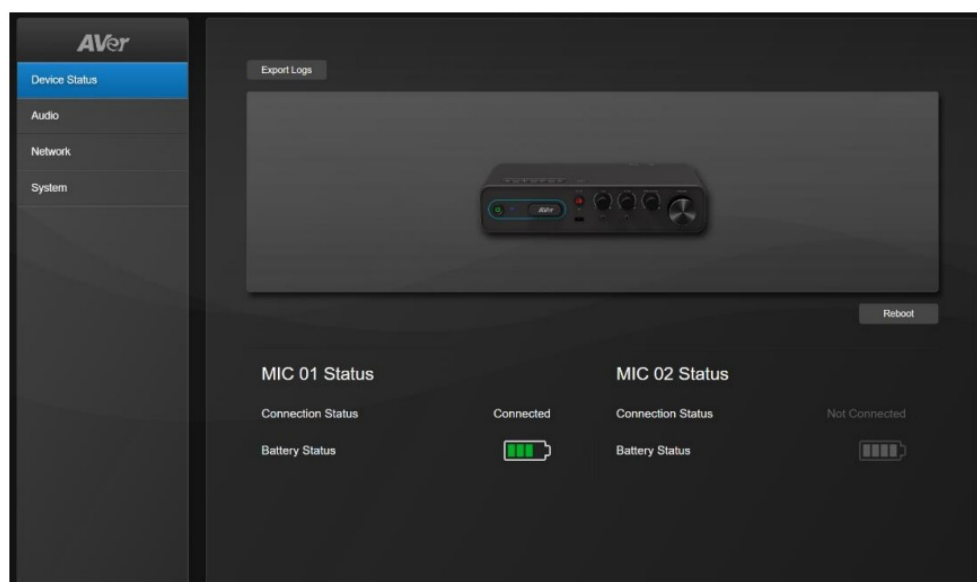
Item	Description
Export Logs	Click to download the logs for current settings to your local files
Reboot	1. Click to restart your Streaming Audio Box, and click OK on the pop-up window to continue. It may take a few minutes to reboot. 2. Refresh your web browser and log in again when the reboot is finished.
Microphone Status	View microphone connection status and battery status. Connection Status Connected / Not Connected Battery Status

Icon	Status
	Full battery
 	Remaining battery
	Low battery
	Out of battery

Audio
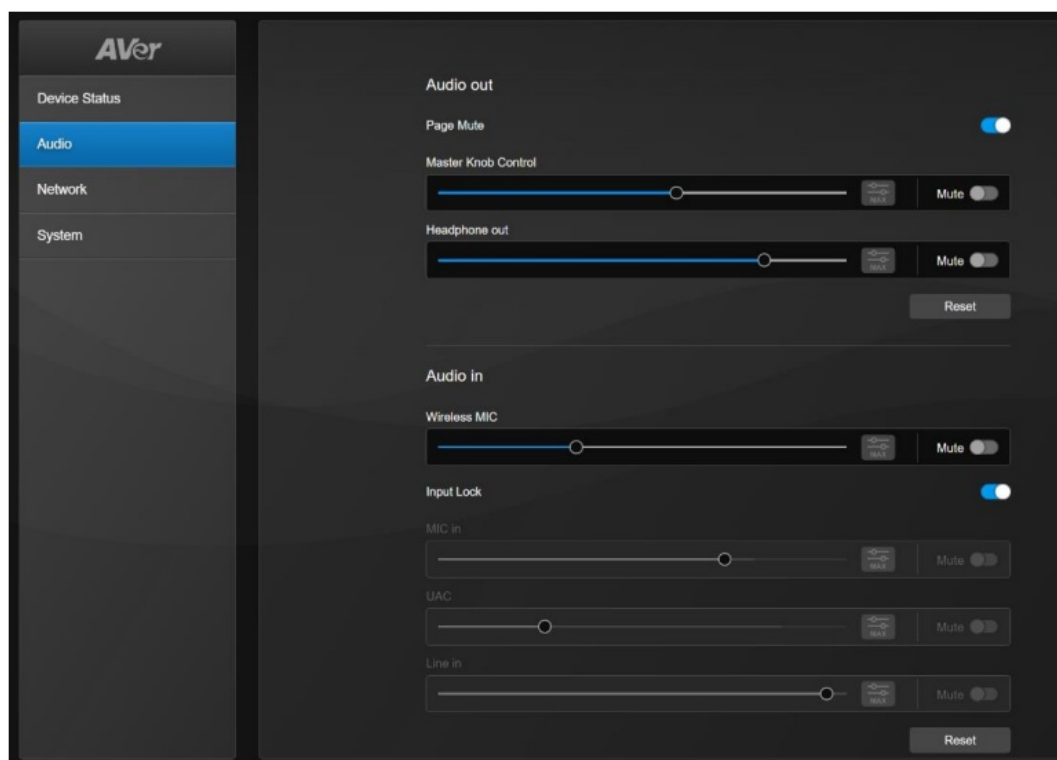
Audio Out

Item	Description
Page Mute	Click the toggle switch to turn on or off the public amplifier mute function. For more information about this function, please refer to <**Page Mute**>.
Master Knob Control	• Drag the slider to adjust the volume.
Headphone out	• Click **Max Volume Setting** to set up the maximum volume. When finished, click **OK**. You can only adjust the volume in a certain range. • Click the **Mute** toggle switch to mute or unmute each setting.
Reset	Click to reset all the settings to factory default values.

Audio In

Item	Description
Input Lock	Click the toggle switch to lock or unlock input settings. When the switch is on, you cannot change MIC in, UAC and Line in values.
Wireless MIC	• Drag the slider to adjust the volume.
MIC in	• Click **Max Volume Setting** to set up the maximum volume. When finished, click **OK**. You can only adjust the volume in a certain range.
UAC	
Line in	• Click the **Mute** toggle switch to mute or unmute each setting.
Reset	Click to reset all the settings to factory default values.

Network

Network Setting

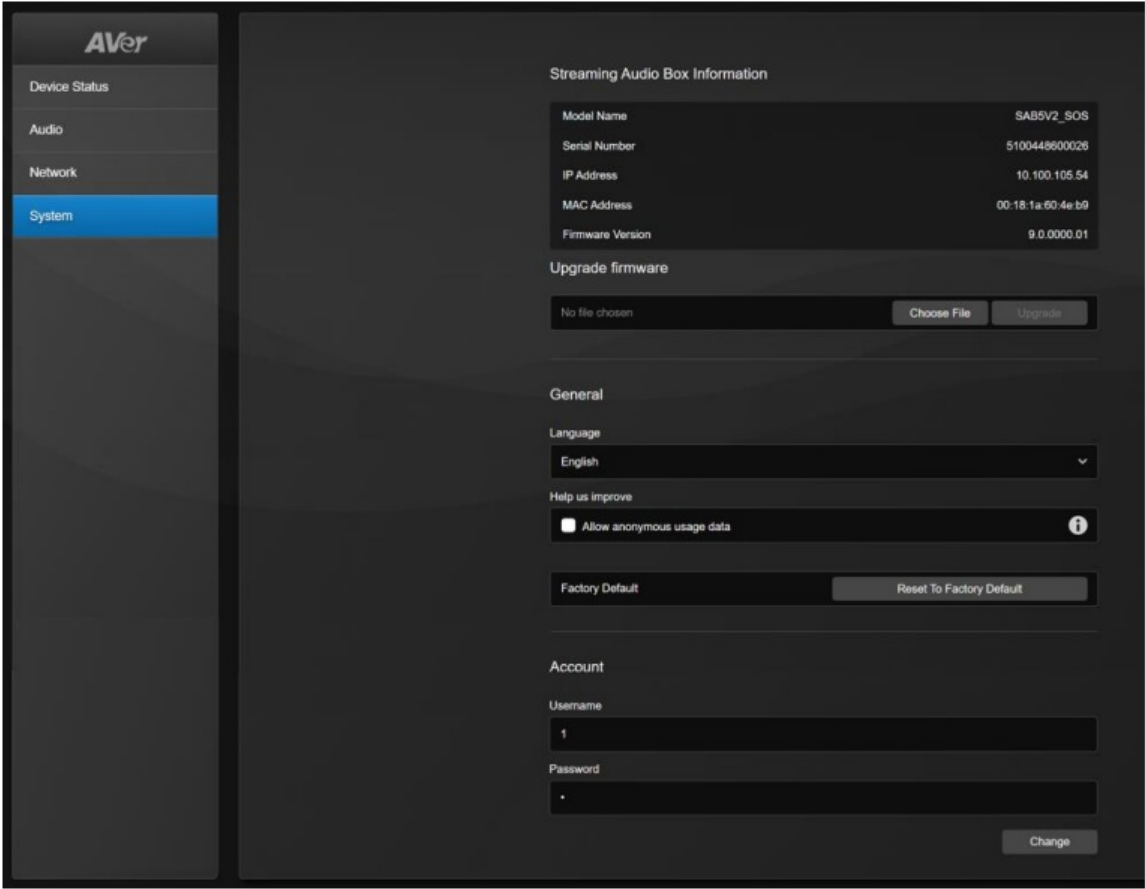| Item	Description
DHCP	Click the toggle switch to switch between DHCP and Static IP. • **DHCP**: The system will assign a related IP address to the device. • **Static IP**: You may manually enter **IP Address**, **Netmask**, **Gateway** and **DNS**.
Hostname	Click to edit the **Hostname**. When finished, click **Confirm**.
IP Address	
Netmask	1. Turn off the **DHCP** toggle switch to switch to Static IP. 2. You may manually enter **IP Address**, **Netmask**, **Gateway** and **DNS** in the text boxes. 3. When finished, click **Confirm**.
Gateway	
DNS	

HTTPS Settings
Click the HTTPS toggle switch to turn on or off the function. When HTTPS function is on, it will establish a secure connection between your browser and your Streaming Audio Box.

1. Create a SSL certificate file for encryption and decryption.
2. In Upload Certificate setup field, click Choose File to select the certificate file on your computer.

3. When finished, click Upload.

System

Item	Description
Streaming Audio Box Information	View your device information, including **Model Name**, **Serial Number**, **IP Address**, **MAC Address**, and **Firmware Version**.
Upgrade Firmware	1. Download firmware update file from Aver Download Center to your computer. 2. Click **Choose File** to select the firmware update file. 3. Click **Upgrade** to upgrade your device firmware.
Language	Select from the drop-down list to change the system language.
Help us improve	Select or unselect the checkbox to allow or don't allow to send anonymous usage data to AVer.
Factory Default	Click **Reset To Factory Default** to set all settings to factory default values.
Username	Change the login username in the text box. When finished, click **Change**.
Password	Change the login password in the text box. When finished, click **Change**.

Specification

SAB5V2 Streaming Audio Box

DC Power	19V
Standby Mode	<1.5W (WoL)
Power Consumption	65W max.
Dimensions (W x D x H)	210 x 110 x 48.5mm (excluding rubber)
Net Weight	530g ±50g
Power Button	• 🟢 **Solid green:** Power on • ✴ **Flashing green:** Start-up • 🔴 **Solid red:** Wake-on-LAN mode (when connected to power) • ✴ **Flashing red:** Updating firmware or resetting to factory default. • 🟠 **Solid orange:** Input lock mode
Status LED	• 🔵 **Solid blue:** Microphone(s) is paired • ⚪ **Off:** Microphone(s) isn't paired
PC Mute Button	• 🔴 **Solid red:** PC is muted • ⚪ **Off:** PC isn't muted
Top Cover Sound Adjustment Buttons	• 🔇 Mute the whole Audio System.} • 🔉 Volume down. • 🔊 Volume up. • 🔒 Lock the current volume settings, except the wireless microphone (RX) input. • **RESET** Reset to factory default settings.
PC Port	USB Type-C
ALD Port	3.5mm stereo for assistive listening devices
Mic In Port	3.5mm mono
UAC Port	USB Type-A 2.0

Line In Port	3.5mm stereo
Line Out Port	3.5mm stereo
Speaker Out	Speaker push-in terminal connector block
Ethernet Port	1
DC Power Jack	19V
Kensington Lock	1
Page Mute Port	1

Pendant Microphones

	Teacher	Student
Style	Pendant with clip and lanyard	
Channels	1	
Transmission Type	Wireless	
Wireless Frequency	2.4 GHz	
Frequency Response	50 Hz – 20 kHz	
Coverage	20m (65 ft.)	
Microphone Capsule	Omni-directional electret condenser	
Battery	Rechargeable and removable Li-ion battery	
Battery Power	3.7V	
Talk Time	8-10 hours	
Charging Time	<3 hours	
Charging Method	USB Type-C	
Dimensions (W x D x H)	Microphone: 33 x 20.2 x 73.3mm (excluding clip) Receiver: 55 x 30 x 10mm	
Net Weight	35g	
Power/Mute Switch	Press and hold the Power/Mute button for 3 seconds to power on > press again to mute > press and hold for 3 seconds to power off.	
Volume	Up/Down buttons	
Safey Alert	SOS button	N/A

Status LED	• 🔵 **Solid blue:** Paired
	• ✴️ **Flashing blue:** Not transmitting to a receiver or out of range
	• 🔴 **Solid red:** Mute
	• ✴️ **Flashing red:** Initiating an SOS Rescue (Teacher)
Battery LED	**When in use:**
	• 🟢 **Solid green:** Norma
	• ✴️ **Flashing red:** Low battery
	When charging:
	• 🟢 **Solid green:** Fully charged
	• 🔴 **Solid red:** Charging
Mic In Port	3.5mm stereo
USB Type-C Port	1
Power Rating	5 VDC, 0.4A

Wireless Receiver Dongle

Transmission Type	Wireless
Wireless Frequency	2.4 GHz
Power Rating	5 VDC, 0.5A

Charging Case

Charging Time	<3 hours
Input Voltage	5V
Charging Voltage	5V
Dimensions (W x D x H)	122.3 x 88.7 x 51.3mm
Net Weight	115g
USB Type-C Port	USB 2.0 Type-C
Kensington Lock	1

Speakers

Total Harmonic	<1% at 1kHz
Distortion	
Frequency Response	88Hz -25kHz ± 3dB
Sensitivity	88 dB 1 Watt (1M1W)
Impedance	6 Ohms nominal
Mounting	Wall mount
Dimensions (W x D x H)	170 x 250 x 150mm
Net Weight	4.75kg
Power Output	15W RMS each

Environmental Specifications

Working temp.	0°C – 40°C
Working RH	10% – 90%
Storage temp.	-30°C – 60°C
Storage RH	10% – 90%

Specifications are subject to change without prior notice.

Troubleshooting

Microphone doesn't pair.

- Make sure the SAB5V2 Streaming Audio Box is turned on. A solid green or orange light on the Power button will indicate that it is powered on.
- Make sure the SAB5V2 Streaming Audio Box is not placed in an enclosed space where the Wi-Fi signal may be obstructed.
- Press and hold the Power/Mute button on the microphone for 3 seconds to power off, and try pairing again.

No or low volume from the microphone.

- Make sure the microphone is not muted. A solid red light on top of the microphone indicates that it's muted.
- Adjust the volume with the Volume Up/Down buttons on the side of the microphone.
- Position the microphone approximately 15cm (5.9") from mouth for optimal audio quality.

hear feedback (squealing).

- The volume may be too high. Adjust the Volume Up/Down buttons on the side of the microphone.

- The microphone may be too close to the speaker. Move the microphone away from the speaker.

No sound for the speaker

- Make sure the SAB5V2 Streaming Audio Box is turned on. A solid green or orange light on the Power button will indicate that it is powered on.
- Check if the SAB5V2 Streaming Audio Box is not muted. If yes, press the Mute Speaker button 🔇 on the top of the Audio Box to unmute.
- Make sure the SAB5V2 Streaming Audio Box volume input is unlocked. If you see a solid orange light on the Power button, press the lock/unlock button 🔈🔒 to unlock input settings. The Power button will display a solid green light, and try increase speaker volume to resolve the issue.

Documents / Resources

AVer SAT5 Wireless Microphone Receiver [pdf] User Manual
SAT5 Wireless Microphone Receiver, SAT5, Wireless Microphone Receiver, Microphone Receiver, Receiver

References

- 🔹 **Support**
- **AVer** _____|_____ **PC** _____| **AVer Japan**
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