1. Using an Ethernet cable, connect the device to a network that supports PoE+.

   Note: If your network doesn’t support PoE+, you should purchase a separate PoE+ injector or PoE+ enabled switch.

   This connection provides the device with power, data, and other IoT and SIP capabilities.

   If you need video conferencing capabilities, use the USB type B cable provided and connect the device to your PC.

   Lastly, we recommend you complete setting up your room via the Stem ecosystem platform. For more information on setting up your room, you can visit stemaudio.com/manuals or stemaudio.com/videos

   Note: The ecosystem platform is available on the Stem Control or in iOS, Windows, and Android apps. You can also access the platform through your web browser by typing in the product’s IP address.

   That’s it! Your Wall is all set up to work as a standalone device.

   All Stem endpoints can be used as solo standalone devices or in union with other devices within the Stem ecosystem. If you plan on using the device in a room, then follow the standalone setup instructions. If you plan on using multiple Stem devices in your room, then skip ahead to the multiple device setup instructions.

   1. Place or mount the device in a desired location in the room.

   2. Using an Ethernet cable, connect the device to a network that supports PoE+.

   3. If you need video conferencing capabilities, use the USB type B cable provided and connect the device to your PC.

   4. Lastly, we recommend you complete setting up your room via the Stem ecosystem platform. For more information on setting up your room, you can visit stemaudio.com/manuals or stemaudio.com/videos

   5. That’s it! Your Wall is all set up to work as a standalone device.

   1. Place or mount the device in a desired location in the room.

   2. Using an Ethernet cable, connect the device to a network that supports PoE+.

   3. This connection provides the device with power, data, and other IoT and SIP capabilities.

   Note: If your network doesn’t support PoE+, you should purchase a separate PoE+ injector or PoE+ enabled switch.

   4. If you need video conferencing capabilities, use the USB type B cable provided and connect the device to your PC.

   5. Lastly, we recommend you complete setting up your room via the Stem ecosystem platform. For more information on setting up your room, you can visit stemaudio.com/manuals or stemaudio.com/videos

   Note: The ecosystem platform is available on the Stem Control or in iOS, Windows, and Android apps. You can also access the platform through your web browser by typing in the product’s IP address.

   That’s it! Your Wall is all set up to work within the Stem ecosystem.

   Optimized to sit on any flat surface or to be mounted on any wall, the Stem Wall is a high-quality conferencing bar array that turns any environment into a professional conference room. Equipped with 15 microphones that perform real beamforming plus full-range speakers and subwoofers, Wall ensures everybody has a voice.
Using Wall

The Directional Array

During a call, Wall uses proprietary beamforming technology to locate a legitimate voice source and steer an array towards it. This allows Wall to focus on the speaker in the room and cancel out all other noise.

The beamforming process is dynamic as it adjusts the direction of the array, when the sound source changes or moves. In a call, when a voice is detected in the room, one or multiple blue lights located on the device will indicate which direction Wall’s audio beam is focusing on. This is the direction that will be heard best by the far-end of the call (the person you are talking to).

Multiple voice sources are isolated using a stereo microphone array and intelligent signal processing technology to locate a legitimate voice source and to suppress residual echo to the environment noise level, preventing artificial ducking of signal.

One or more blue lights will indicate the direction of voice pickup in progress. Only one light will turn red to indicate device error. A solid red line indicates the device is in boot up mode. A rapid red pulsing icon indicates device error and a slow red pulsing icon indicates device is restarting.

Just press the directional blue light (approx. two seconds) to return the device to default settings prior to testing the environment and device is adapting & device is restarting.

Device Function

- Device is booting up
- Device is restarting
- Device is in a call
- Device error

Light Activity

- Single blue light moving from left to right: Device is booting up
- Single blue light moving from right to left: Device is restarting
- Blue lights turning off: Device is in a call
- Partial blue dots shifting from right to left: Device is adapting & testing the environment
- Directional blue light: Device is in a call

Volume Control

Change the speaker volume by using Volume Control + to increase, - to decrease the volume.

Lights

To note Wall’s microphones during a call, press one or multiple blue lights located on the device will indicate which direction Wall’s audio beam is focusing on. This is the direction that will be heard best by the far-end of the call (the person you are talking to).

Mute

Change the speaker volume by using Volume Control + to increase, - to decrease the volume.

Speaker

Product Features

- 4000 Series Type II
- 4000 Series Type III
- 3000 Series Type I
- 3000 Series Type II

Product Specs

Connectors

- Ethernet: RJ45 connector (requires PoE+)
- USB: USB Type B

Dimensions

- Length: 48 in. (121.9 cm)
- Depth: 3.5 in. (8.9 cm)
- Height: 3.25 in. (8.3 cm)

Weight

- 7.5 lbs. (3.4 kg)

Automatic voice-level adjustment (AGC)

High-end performance conforms to ITU-T G.167

100% full duplex – no attenuation (in either direction) during full duplex

Noise cancellation: > 15dB (without pumping noise)

Broadcast level (peak): 90dB SPL @ 1Khz from 1m (5 watts RMS)

Frequency response: 50Hz – 16KHz

Requirements

- Operating Systems: Windows 98 and up / Linux / MacOS.
- Connectors:
  - USB
  - Ethernet

Compliance

- ICES-003:2016 updated April 2017
- FCC 15.109(g):2019
- FCC 15.109:2019
- AS/NZS CISPR 32:2015
- Spec:
  - System
  - Product
- Connectors:
  - USB
  - Ethernet: RJ45 connector (requires PoE+)

Warranty

The manufacturer warrants this product is free from defects in material and workmanship. Should any part of this product be defective, the Manufacturer agrees, at its option, to repair or replace with a like-new unit. This warranty is void if:

1. The device has been modified in any way
2. Return to Manufacturer
3. Any original factory seals are broken or altered
4. Any original factory markings, labels, or serial numbers are removed, defaced, or altered
5. The product has been altered or repaired by other than the manufacturer or an authorized service representative of the Manufacturer
6. The product has been subject to misuse, neglect, or abuse
7. The product has been altered or repaired by other than the manufacturer or an authorized service representative of the Manufacturer; or; Adaptations or accessories other than those manufactured or approved by the Manufacturer have been made or attached to the product which, in the determination of the Manufacturer, make the product inoperative
8. The product has been repaired by the End User
9. The product has been altered or repaired by other than the manufacturer or an authorized service representative of the Manufacturer
10. The product has been subject to misuse, neglect, or abuse
11. The product has been subject to any other modifications

THIS WARRANTY IS VOID IF:

- The Ecosystem

Hub

Wall

Table

Control

Need Some Help?

Website: stemaudio.com
Email: customerservice@stemaudio.com
Phone: (949) 877-STEM (7836)
Product Quickstart Guides: stemaudio.com/manuals
Product Setup Videos: stemaudio.com/videos