

## Installing Vaddio Ceiling Speakers

The Vaddio Ceiling Speaker is a two-way enclosed analog speaker designed by Vaddio for indoor use.

This guide covers:

**Vaddio Ceiling Speaker (worldwide): 999-85600-000**

### Features

- High-performance metalized polypropylene cone woofer with doubled neodymium magnet assembly for increased efficiency and butyl rubber driver surround for longevity
- Coaxially located damped poly cone tweeter, rigidly affixed to woofer magnet structure
- Removable Phoenix-style signal connection plug
- Recessed cable cavity with pivoting cover and wiring clamp
- Steel enclosure with safety loop and convenient swivel-out mounting tabs
- Ceiling or wall installation
- Magnetically attached grille
- Sold in pairs



### Specifications

Power	40 W
Characteristic Impedance	8 ohms
Height	6 in. (152.4 mm)
Body Diameter	7.2 in. (182.9 mm)
Grille Diameter	8.6 in. (218.4 mm)
Installed Weight	6.4 lb. (2.9 kg)

### What's included

Make sure you received all the items you expected.

- Vaddio Ceiling Speaker with magnetically attached grille, qty. 2
- Euro-style 4-pin audio connector, qty. 2
- Tile brace, qty. 2
- 28 in. (71 cm) stainless steel safety cable with steel carabiner clips, qty. 2

Contact Vaddio Technical Support at 800.572.2011 or +1.763.971.4400, or email [av.vaddio.techsupport@legrand.com](mailto:av.vaddio.techsupport@legrand.com) if you did not receive all the items listed.

## A quick look at the speaker

- Magnetically attached speaker grille (with the logo badge you know and love)
- Quick mounting tabs swivel into position
- Connector cover plate with strain relief clamp
- Convenient loop for securing safety wire



## Placement tips

Avoid common audio problems:

- The effective range for a Vaddio speaker or microphone is about 12 ft. (3.7 m) under most circumstances. Be sure the room design includes enough of each to provide adequate coverage.
- To prevent audio feedback, install speakers at least 4 ft. (1.2 m) from microphones. More separation is better.
- Good echo cancellation requires the room's microphones to be closer to the people who will be talking than to the speakers. Make sure the speakers are at an appropriate distance from the microphones.

## Tools you will need

- Hole saw for the appropriate type of ceiling
- #2 Phillips screwdriver
- Wire cutters
- Tape measure
- Ladder or lift
- Appropriate personal protective equipment

We recommend suspending the tile brace using Chief's "Speed Connect Hardware Kit," part number CMSHDW, available from [legrandav.com](http://legrandav.com).

## Don't void your warranty!

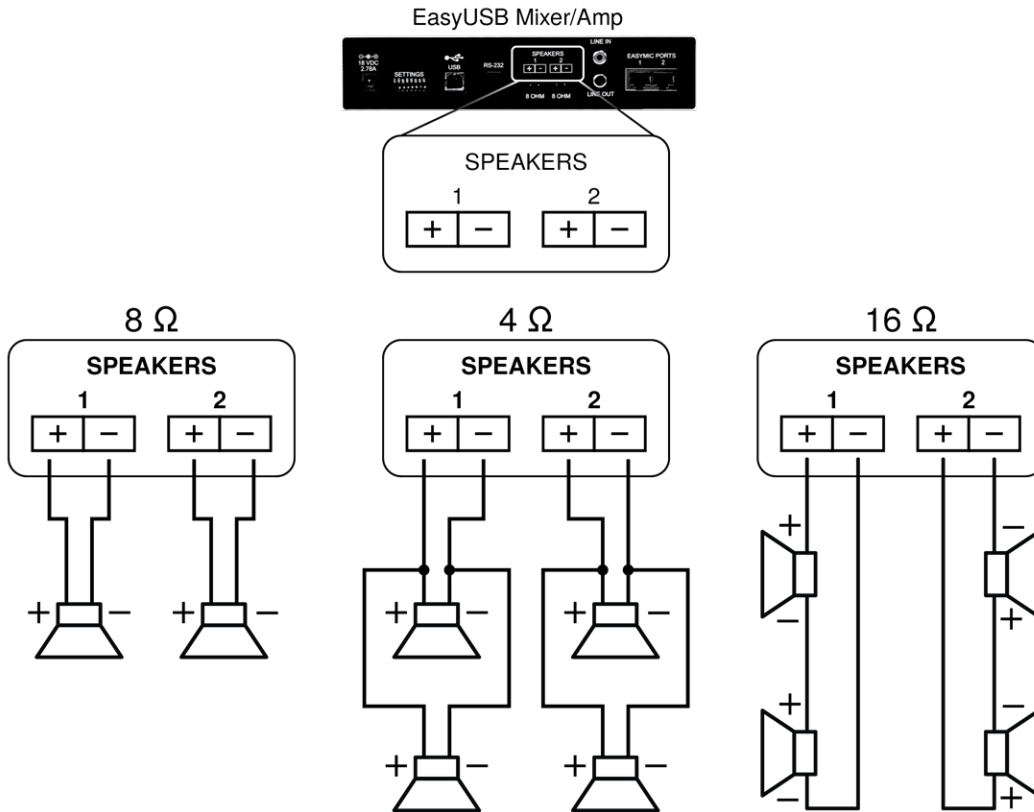
### Caution

*This product is for indoor use. Do not install it outdoors or in a humid environment without the appropriate protective enclosure. Do not allow it to come into contact with any liquid.*

*Do not install or operate this product if it has been dropped, damaged, or exposed to liquids. If any of these things happen, return it to Vaddio for safety and functional testing.*

## Basic connections

Connect the speaker(s) to the room system through an amplifier, such as the Vaddio EasyUSB Mixer/Amp.



## Preparing the ceiling

### **Warning**

Follow standard safety practices when using ladders or lifts. Failure to do so can result in injury or death. We like you, we don't want you to be injured or killed, and we hope you understand the gravity of the situation.

### **Note**

All above-ceiling work must conform to local building codes and should be performed by qualified personnel.

### **If installing in a hard ceiling:**

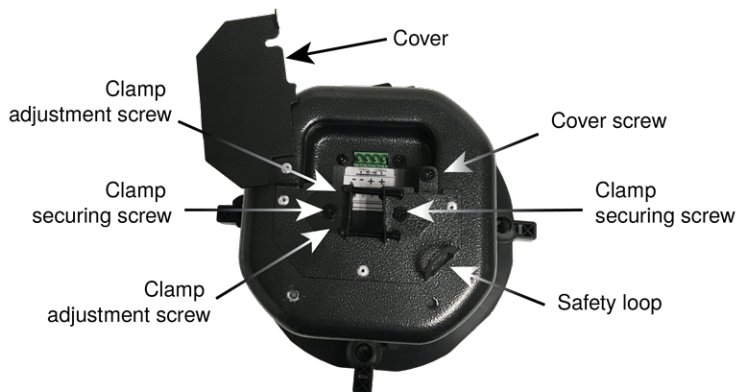
Using the tile brace as a template, make a hole in the ceiling where the speaker will be mounted.

### **If installing in a suspended tile ceiling:**

1. Remove the ceiling tile where the speaker will be mounted, and make a hole in the ceiling tile using the tile brace as a template.
2. Reinstall the ceiling tile and position the tile brace.
3. Optional but recommended: Secure the tile support brace to the building structure using appropriate hardware such as Chief's "Speed Connect Hardware Kit," part number CMSHDW. The ends of the tile brace have holes to accommodate support wires.

## Connecting the cable

1. Loosen the screw holding the connector cover in place, and pivot the cover outward.
2. Loosen the screw securing each side of the cable clamp to the speaker body, and loosen the two long clamp adjustment screws.



3. Route the cable through the cable clamp and connect it.
4. Tighten the clamp adjustment screws until the cable is held securely in the clamp. Then tighten the screws securing the clamp to the speaker body.
5. Move the connector cover back into place and tighten the screw.

## Installing the speaker

1. Attach the included safety wire to a secure anchoring-point above the ceiling and to the loop on the back of the speaker. If you are using the tile brace, you can attach the safety wire to one of its corners.
2. Remove the magnetically attached speaker grille.
3. Guide the speaker up through the hole in the ceiling.
4. Turn each of the four Phillips screws in the front face of the speaker clockwise. The first quarter-turn rotates the mounting tabs outward to keep the speaker from falling. Tighten the screws gently to hold the speaker in place.



### **Caution**

*Do not use power tools. Do not tighten the screws past 8 foot-pounds (10 newton-meters). The tabs may break if you tighten them too much.*

5. Put the speaker grille back in place.

## Use, storage, and care

Keep this device away from food and liquids. Do not attempt to take this product apart. There are no user-serviceable components inside.

Do not operate or store the device under any of the following conditions:

- Temperatures above 104° F (40° C) or below 32° F (0° C)
- High humidity, condensing or wet environments
- Inclement weather
- Severe vibration
- In a blender (our engineers advise against this for acoustic reasons)
- Dry environments with an excess of static discharge