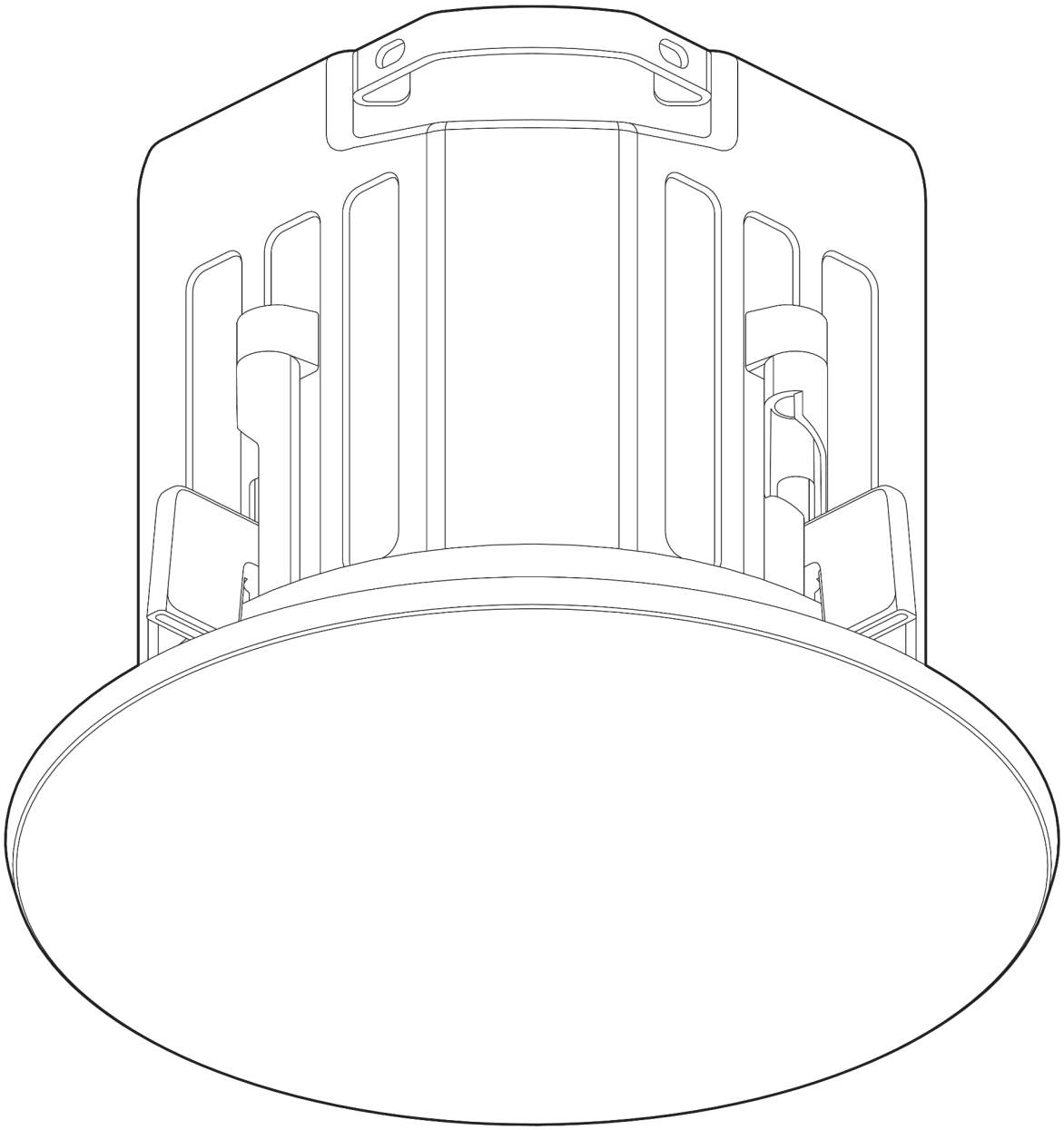
Install Guide

NS261 6.5" In-Ceiling Network Speaker



Document

Document Details

Version

V1.1 (20261012)
(V1.0 published 20260916*)*

Firmware

Firmware version can be verified on Verkada Command command.verkada.com.

Product Models

This install guide pertains to models:

- NS261-W-HW

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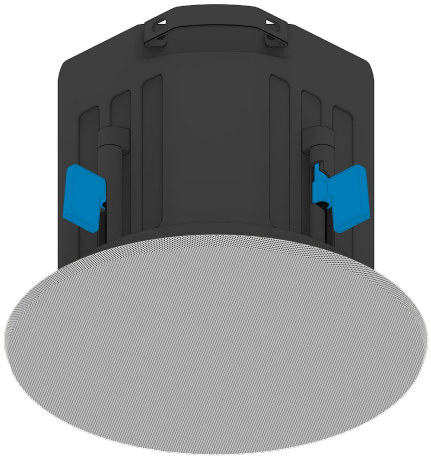
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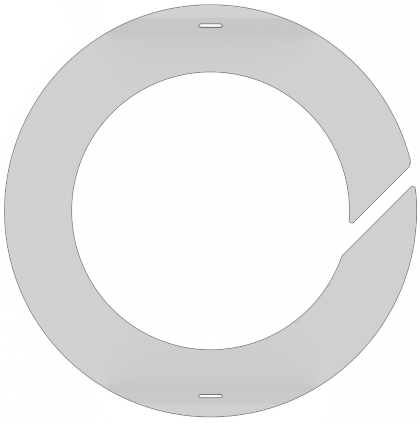
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What's in the Box



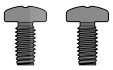
In-Ceiling Network Speaker



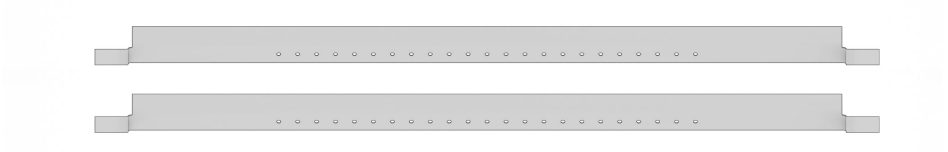
Mounting Bracket



Safety Tether



Rail Screws (2 pcs)
Length: 8mm **Diameter:** 4mm
Drive: #2 Phillips



Mounting Rails (2 pcs)

What you'll need

- A working Internet connection.
- 802.3af Power over Ethernet (PoE) switch, or a PoE injector.
- A smartphone or laptop
- A #2 Phillips screwdriver or power drill with a #2 Phillips driver bit
- A Cat5 or Cat6 Ethernet cable

Placement

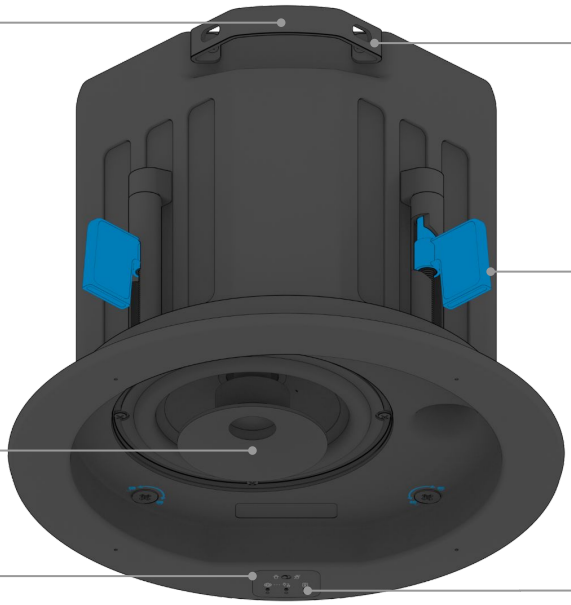
Mounts into a 10-1/2" (26.7cm) hole. Clearance requirement of 10-1/2" (26.7cm) above the ceiling.

Connect

For easy registration and setup, scan the QR code on the product.

If you prefer to manually register your product, please proceed to: verkada.com/start

Overview



Handle

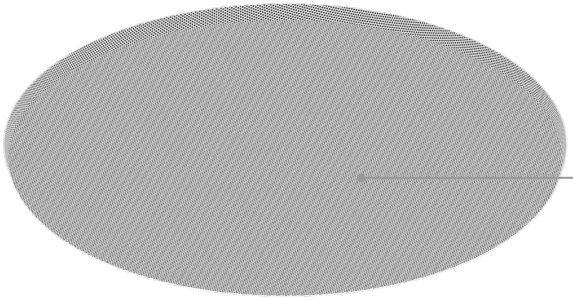
Anchor Point

Securing Fin

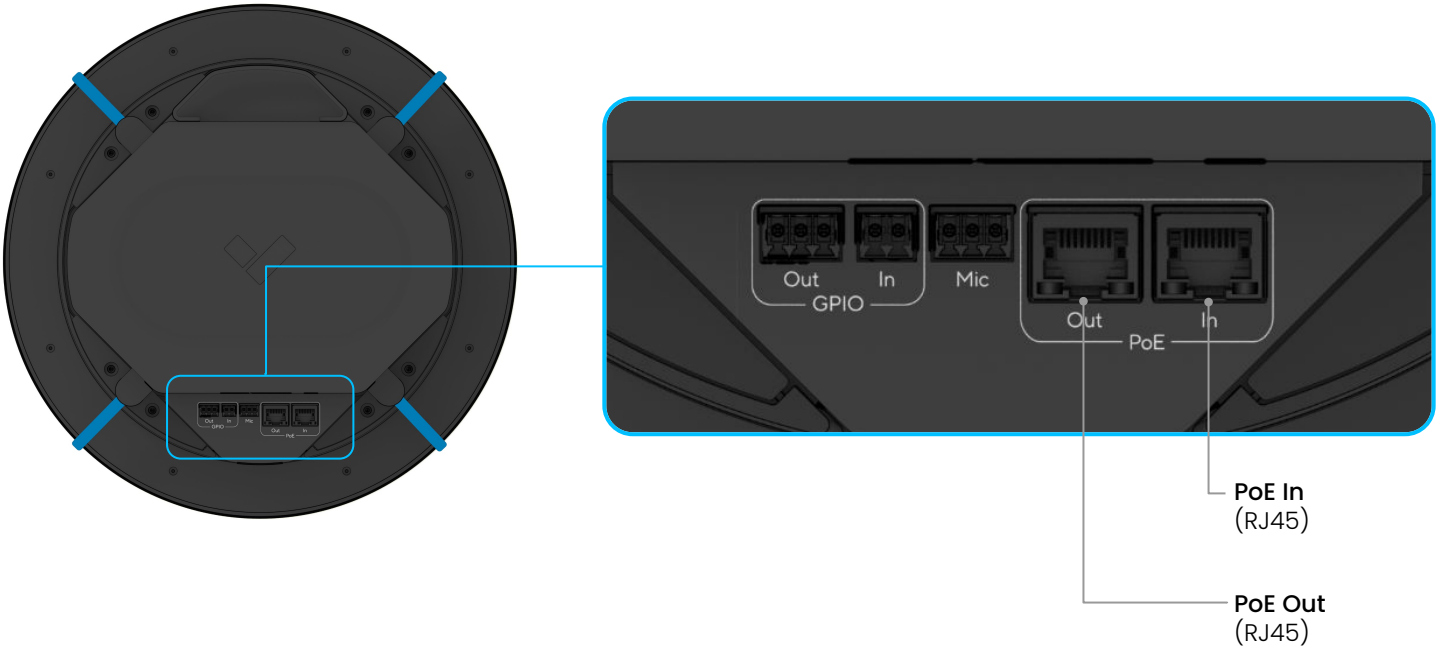
6.5” Coaxial Speaker

Microphone Switch
Disable or enable the camera microphone.

Status & Debug LEDs



Speaker Grille



PoE In
(RJ45)

PoE Out
(RJ45)

Microphone Switch

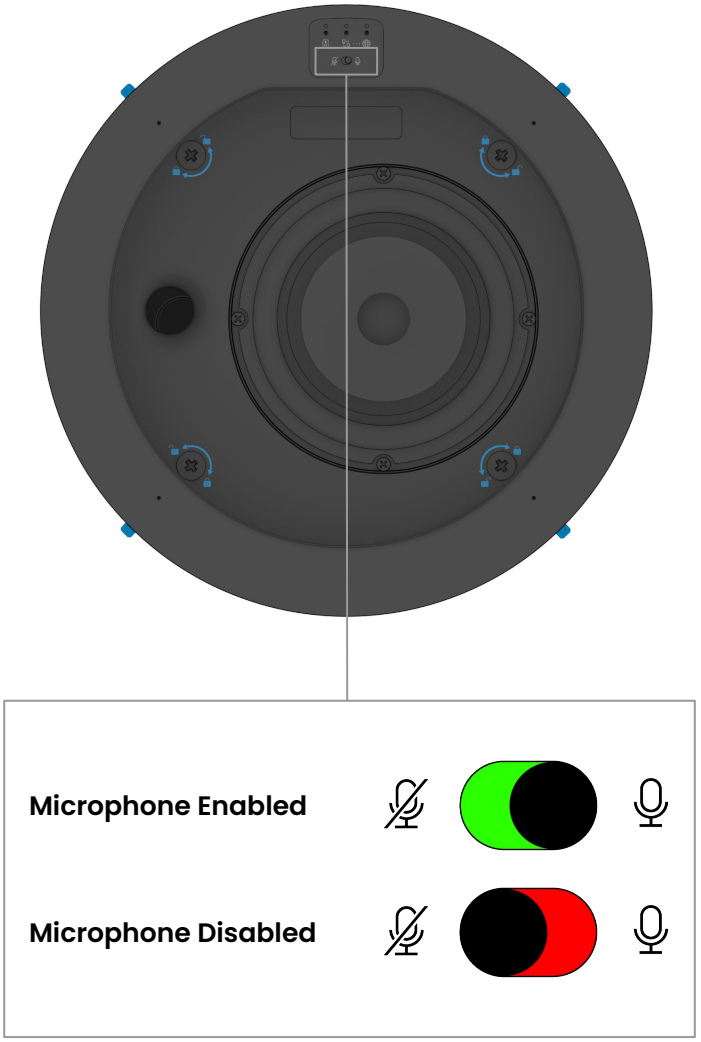
The microphone switch physically disconnects the unit's internal microphone, guaranteeing that no audio is recorded.

Speaker Microphone is enabled by default.

To disable the microphone, slide the switch to the disabled position.

Alternatively, the microphone can be disabled in device settings on Command.

Note: The Microphone Switch does not disable an external microphone.



LED Behavior

General operation

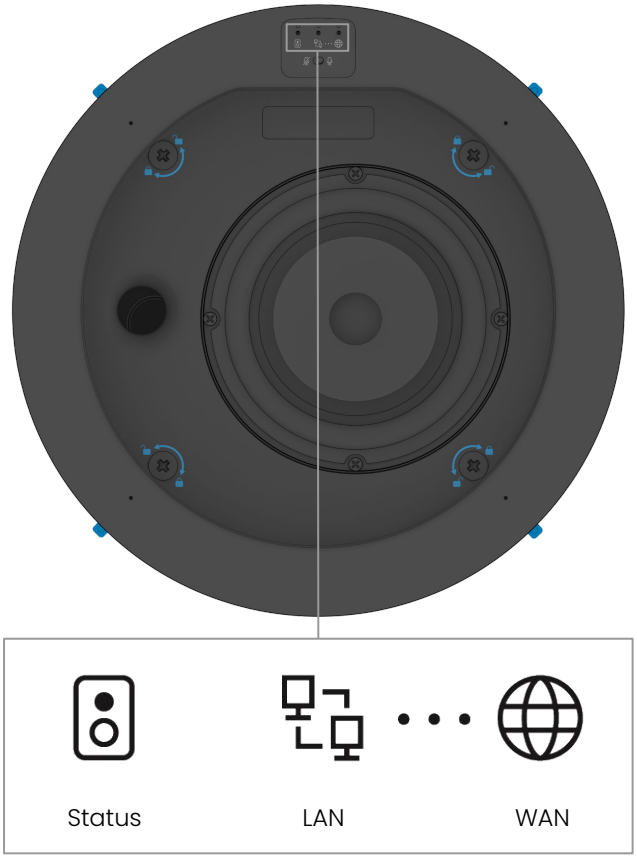
- **Solid Blue** ◌ **LEDs off**
  Speaker is running, connected, and ready to play. *After 60 seconds of normal operation, the LED will turn off.*

- **Solid Orange**
  Speaker is on and booting up.

- **Flashing Orange**
  Speaker is updating firmware.

- **Flashing Red**
  Specific error, see “Network errors” below.

- **Solid Red** (All 3 LEDs)
  Contact support



Network errors

When the speaker grille is removed, the specific error will be communicated on the debug LEDs.



Example of **2 Red** flashes on LAN Debug LED

LAN errors

1 Red - No IP Address
Speaker has not received an IP address.

2 Red - Duplicate IP
Speaker has detected duplicate IP addresses on the LAN.

3 Red - No Gateway
Speaker is not able reach the configured Gateway.

4 Red - No Switch
Speaker is connected with PoE, but unable to connect to the Switch.

WAN errors

1 Red - DNS error
Speaker is not able to resolve Verkada hostnames.

2 Red - NTP Error
Speaker is not able to receive a response from the NTP Server.

3 Red - Not Connected to Command
Verkada endpoints are not reachable after boot up.

Technical Specifications

Frequency Range	65 - 20,000 Hz +/- 3 dB
Drivers	6.5″ (16.5 cm) coaxial
SPL	PoE+: 96dB SPL continuous / 100+dB SPL peak at 1m / 3.3ft PoE: 92dB SPL continuous / 96+dB SPL peak at 1m / 3.3ft
Dispersion Angle	Coverage angle 108˚ @ 1m (-6 dB) 500 Hz - 8 kHz
Power Consumption	5W idle (no audio playing, no Mic input) 25W maximum (audio playing)
Input Power	IEEE 802.3af/at/bt PoE, PoE+, PoE++ (37VDC — 57VDC), 960mA maximum per pair Standalone: 802.3at (PoE, PoE+): 15W or 30W port budget required With PoE pass-through: 802.3bt Type 3 or Type 4 (PoE++): 60W or 75W port budget required
PoE Output	802.3af/at PoE, PoE+ (37VDC-57VDC), 30W maximum
Audio Input	4x omnidirectional digital MEMs microphones
General Purpose Input	Port reserved for future use.
General Purpose Output	Port reserved for future use.
Connectivity	Ethernet: 100/1000Mbps RJ45 for network connection.
Dimensions	Ø Bezel Diameter: 333 mm (13.1 in) Height: 247 mm (9.7 in) Ø Ceiling Cutout Diameter: 267 mm (10.5 in) Recommended Plenum Clearance: 267 mm (10.5 in)
Weight	3.6kg (8lbs)
Operating Temp. & Humidity	-10 - 50C 0-90% RH non-condensing
Compliance	Please refer to https://www.verkada.com/compliance/

Power Options

This chart outlines the speaker's available PoE power options.

⚠ Warning

Do not daisy chain more than one speaker. Connect a maximum of two speakers per switch port.

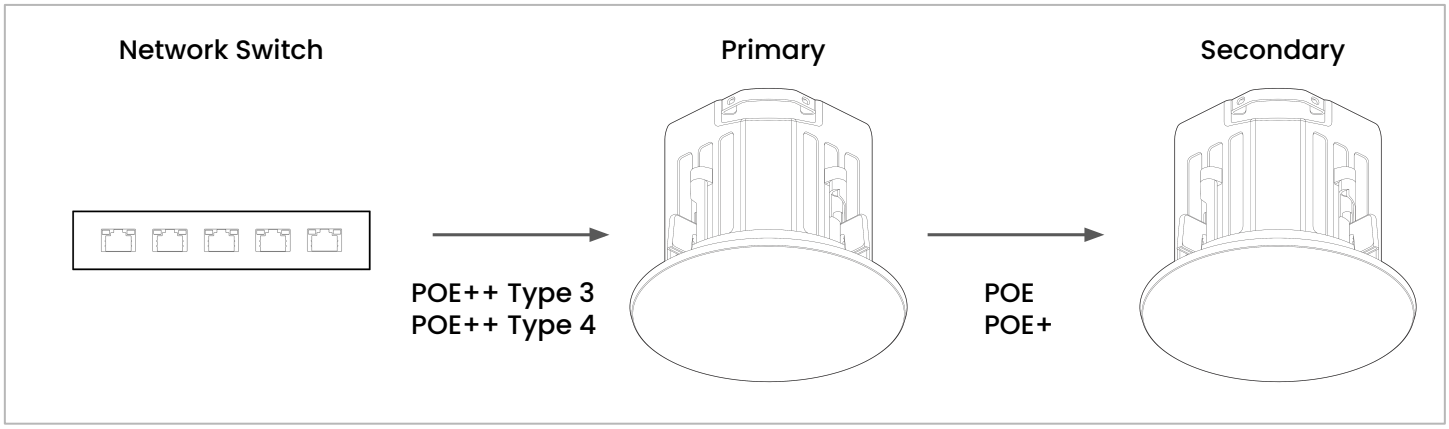
PoE audio devices experience an inrush current when an announcement is made. To prevent switch reboots and audio distortion during playback, always budget for the maximum rated power draw of each speaker and an additional 20% of safety headroom across the switch's total PoE budget.

For example, if your switch has a 100W PoE budget, keep total speaker draw at or below 80W to preserve 20% headroom. At a maximum draw of 20W per speaker, that supports up to 4 speakers.

Input PoE Standard	Type	Input Class	Amp Max Power	PoE Out Passthrough	PoE Out Max Passthrough Power
802.3af (PoE)	Type 1	Class 3	10W	Disabled	N/A
802.3at (PoE+)	Type 2	Class 4	20W	Disabled	N/A
802.3bt (PoE++)	Type 3	Class 6	20W	Yes	Class 3 (13W)
802.3bt (PoE++)	Type 4	Class 8	20W	Yes	Class 4 (25.5W)

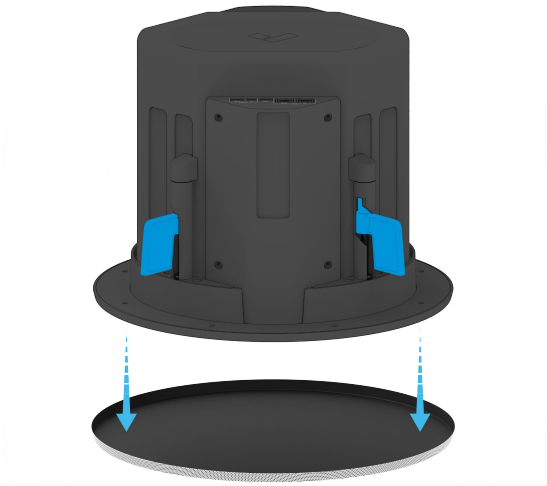
PoE Passthrough (Maximum two Speakers)

If using PoE passthrough, a primary speaker must receive PoE++ Type 3 or Type 4 so it has enough passthrough budget for a secondary speaker.

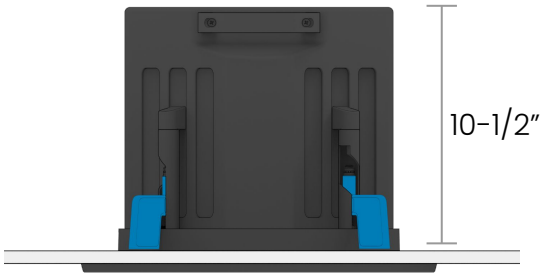


Mounting

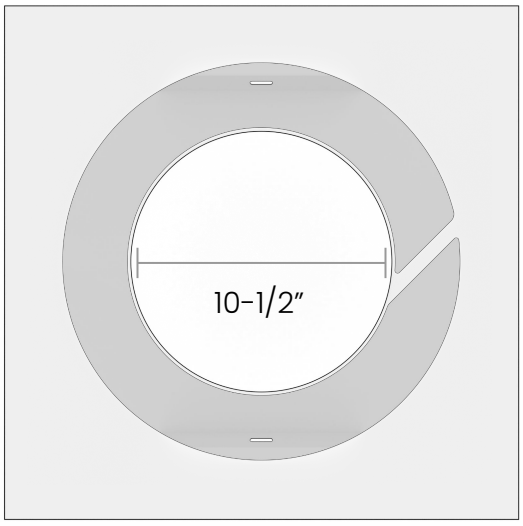
Pull to remove the magnetic Speaker Grille.



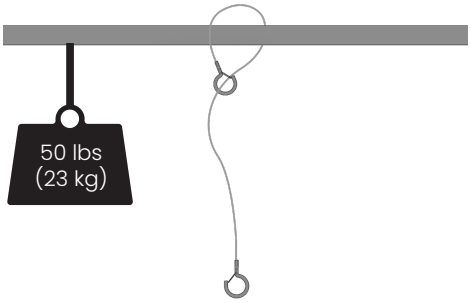
Note: Ensure you have at least 10-1/2" (26.7cm) of depth above the tile to fit the back volume of the speaker.



Take down the ceiling tile where the speaker will be mounted. Use the mounting bracket as a stencil to mark the 10-1/2" (26.7cm) diameter round hole on your ceiling tile or desired location. Proceed to cut the hole.

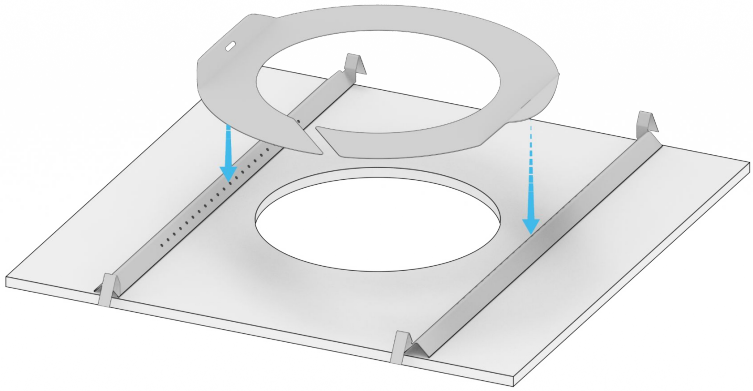


Install your Safety Tether to an anchor point that can support 50 lbs (23 kg).

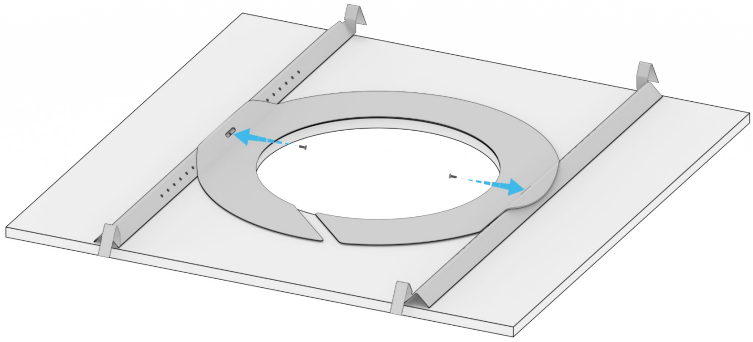


Mounting

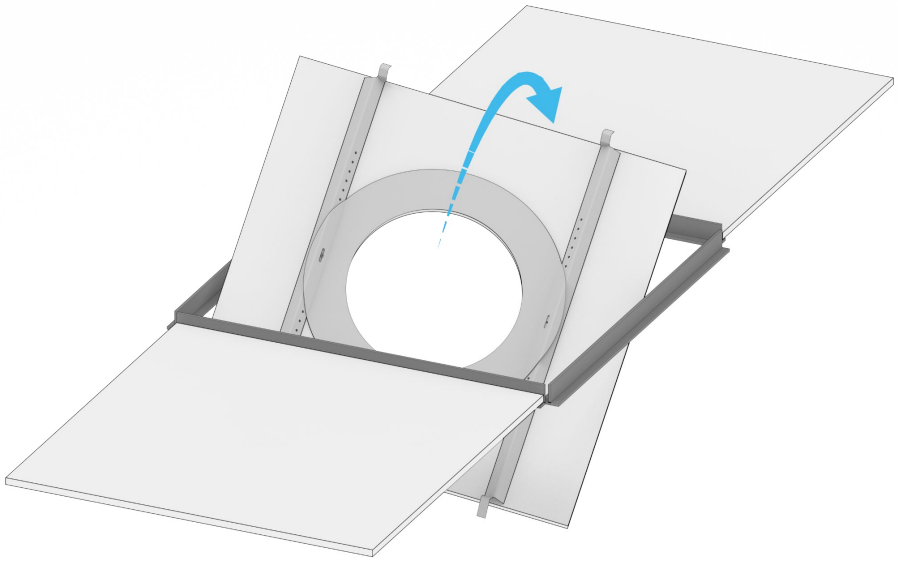
Place the two Mounting Rails onto the ceiling tile. Hook the Mounting Bracket onto the Mounting Rails.



Once the mounting structure is aligned with the 10.5" (26.7cm) hole in the ceiling tile, secure the Mounting Bracket to the Mounting Rails via the two provided screws.

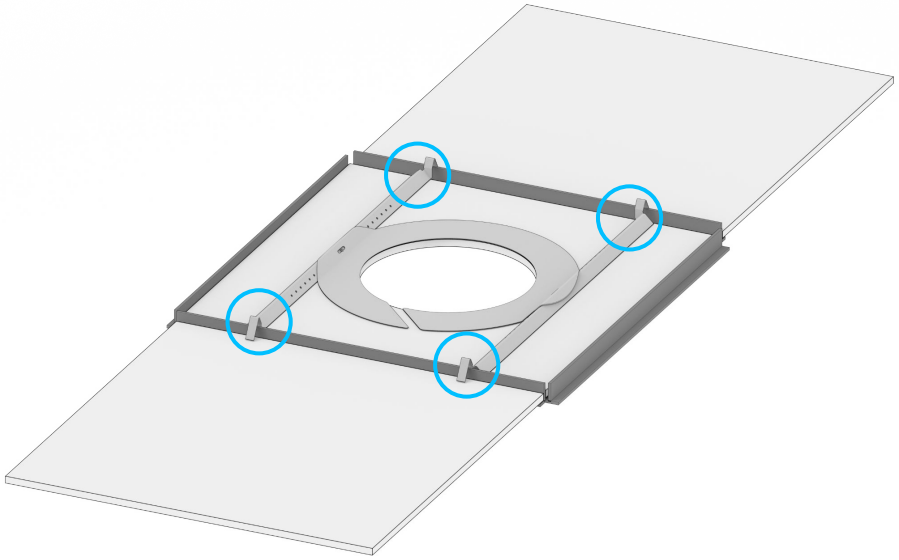


Lift the ceiling tile into the ceiling at an angle. Adjust until it is resting between the cross braces.

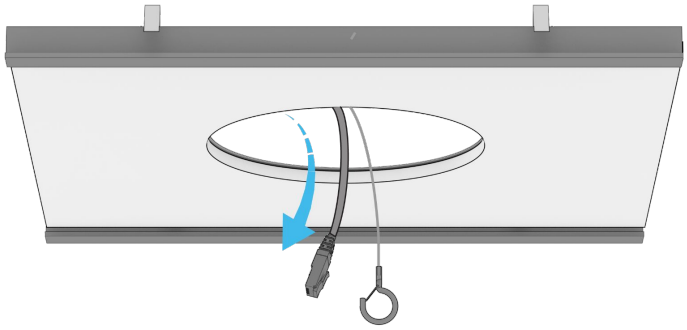


Mounting

Raise a hand into the ceiling tile hole. Locate each hook on the mounting structure and ensure it is attached to the ceiling cross brace.



Pull the Safety Tether and Ethernet cable through the ceiling tile hole.



Ensure that the Securing Fins are in the folded position. If necessary, use a Phillips screwdriver to loosen the four Fin screws by turning counter-clockwise.





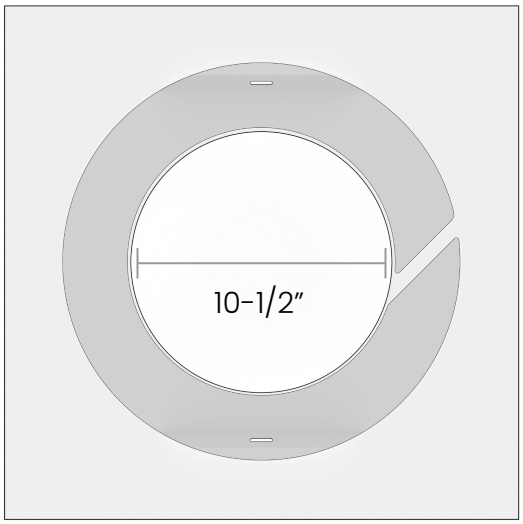


Installation

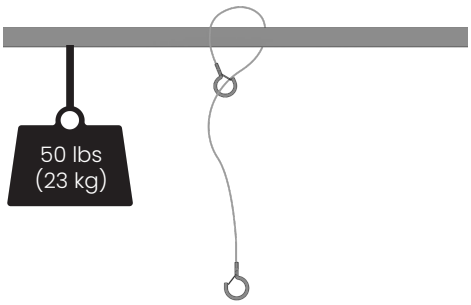
Mounting in a Drywall Ceiling

Ensure there is enough space between the ceiling joists to fit the speaker.

Use the mounting bracket as a stencil to mark the 10.5" (26.7cm) diameter round hole on your drywall ceiling. Proceed to cut the hole.



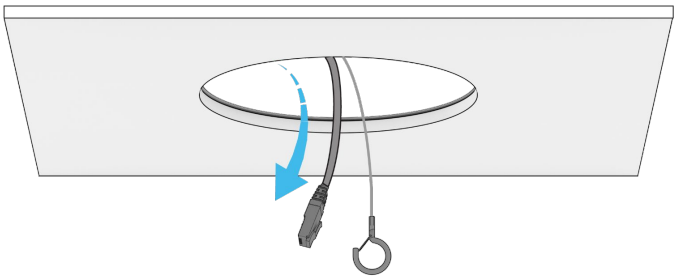
Install your safety tether to an anchor point that can support 50 lbs (23 kg).

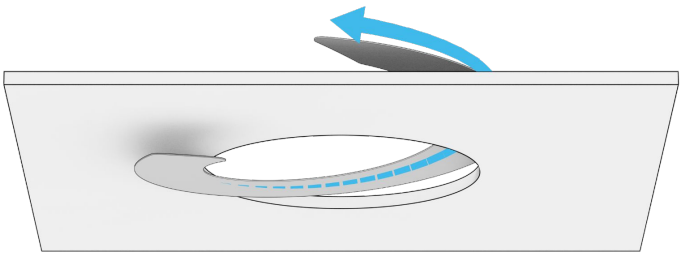


Pull the Safety Tether and Ethernet cable through the ceiling tile hole.

Lift the circular mounting bracket into the ceiling (*without the rails*) by bending the bracket until one side is on top of the ceiling and the other is underneath the ceiling.

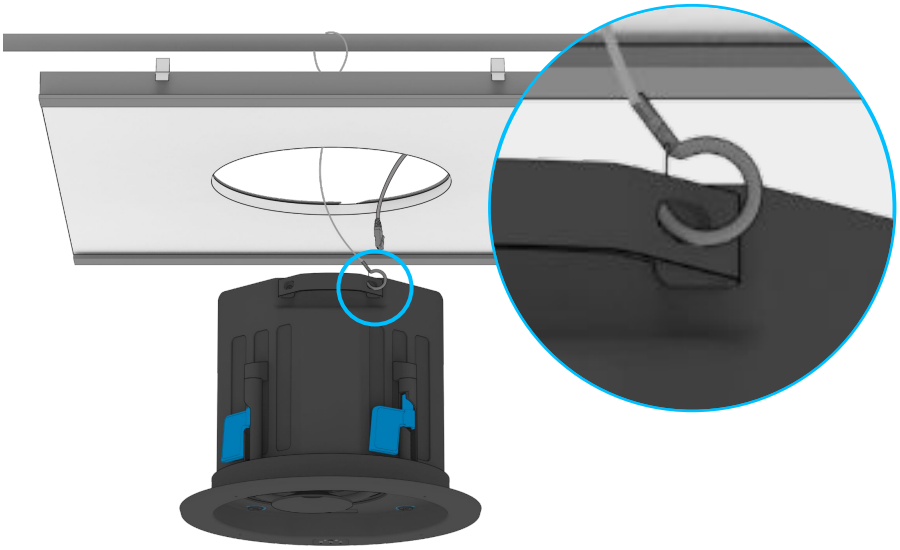
Rotate the mounting bracket in a corkscrew fashion until the entire bracket is inside the ceiling.



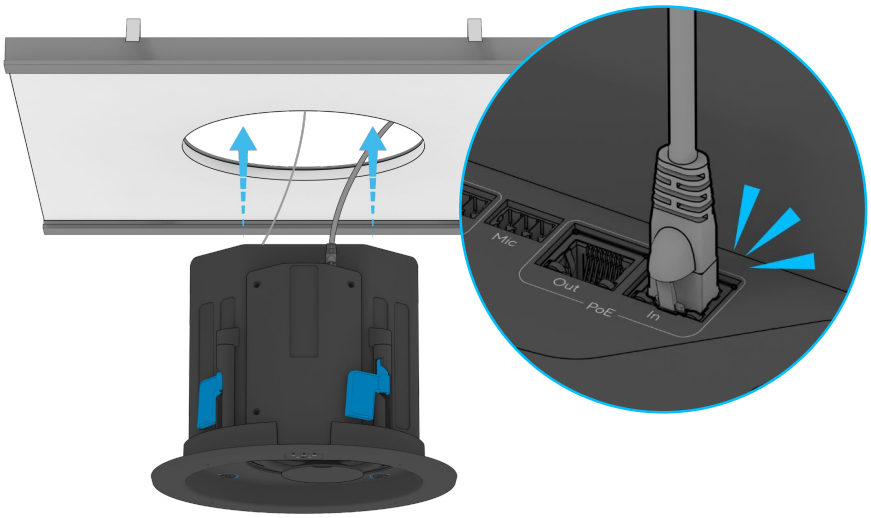


Mounting

Bring up your speaker and hook it to the tether mount point, it needs to be able to hang safely.

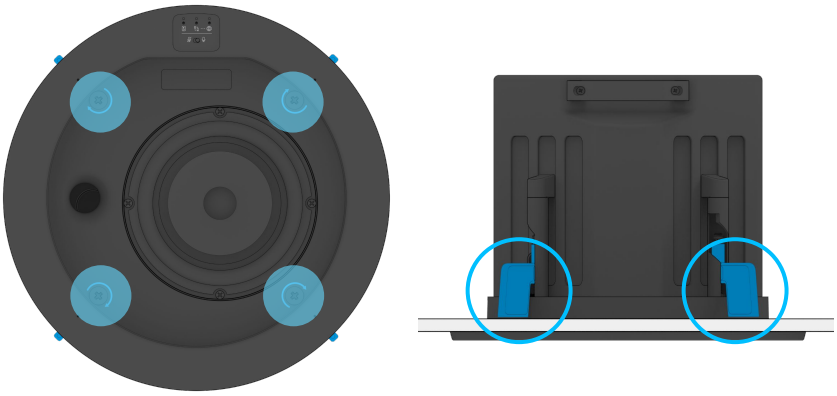


Remove the plastic Ethernet dust cap. Connect your PoE Ethernet cable to the PoE In port.



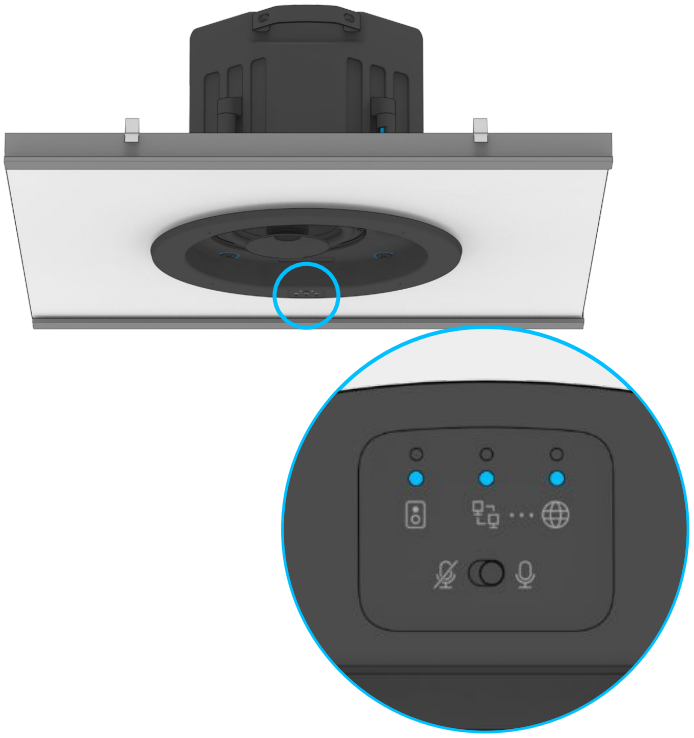
Lift the speaker into the ceiling tile and tighten the four Fin screws using a #2 Phillips screwdriver until tight.

Note: Fin screws should be hand-tightened.
Do NOT over-tighten the Fin screws.

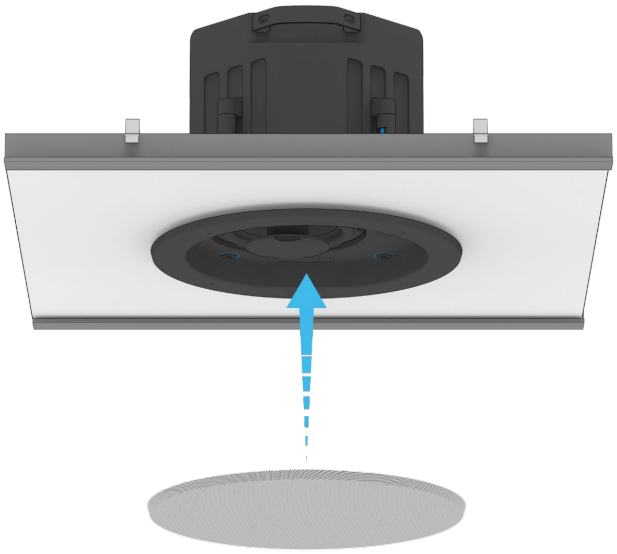


Mounting

Verify that the device is online and functioning by checking the LEDs.



Install the grille to complete the installation.



Appendix

NS261 Compliance

FCC Compliance	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 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 radio frequency 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. **Radiation Exposure Statement:** 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.
IC Statement	This device complies with ISED's licence-exempt RSSs. 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. **Radiation Exposure Statement:** This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with greater than 20cm between the radiator & your body. Le présent appareil est conforme aux CNR d' ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable. **Déclaration d'exposition aux radiations:** Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à plus de 20cm entre le radiateur et votre corps.
Spotify	Use your phone, tablet or computer as a remote control for Spotify. Go to spotify.com/connect to learn how The Spotify Software is subject to third party licenses found here: https://www.spotify.com/connect/third-party-licenses.

Appendix

Support

Thank you for purchasing this Verkada product. If for any reason you're experiencing issues or need assistance, please contact our 24/7 Technical Support Team immediately.

Sincerely,
The Verkada Team
verkada.com/support