# Installation method of the speaker head of the distribution box

## Overview

Learn how to wire speakers and connect them to your distribution box. A simple, step-by-step guide to getting your speakers set up and ready to use.

## Key Takeaways

Proper installation of a speaker head in a distribution box requires secure mounting, shielded Ethernet cabling with grounding, correct torque application, and verification of connections to ensure optimal performance and IP-66 protection.

### Step-by-

Step Installation Guide1.

### Mounting the Bracket

Unscrew the speaker from its mounting bracket and place the bracket at the designated location on the wall or ceiling. The speaker can be mounted horizontally or vertically depending on the space and coverage requirements. Use a low tightening torque (maximum 1.

5 Nm) when securing the bracket to avoid damaging the material. 2.

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## Attaching the Speaker

Fasten the speaker to the mounting bracket carefully. Remove the back plate to access the cable entry points. Ensure the speaker is positioned at a height of 1.

5–3 meters for optimal microphone and audio performance. 3.

## Wiring the Speaker

Run a shielded Ethernet cable through the cable gland on the back plate. Terminate the cable with an RJ45 connector and insert it into the TKIS Kit Ethernet port. Verify that all microphone and speaker wires are correctly connected before reattaching the back plate.

Ground the cable at the switch end to prevent interference and maintain signal integrity. 4.

## Securing the Cable Gland

Tighten the cable gland to maintain the IP-66 rating for water and dust protection. Use a suitable tool to prevent twisting the gland. Recommended torque for the cable gland cap nut is 4–5 Nm, while the speaker mounting screws should not exceed 2.

5 Nm. 5.

## Final Assembly and Network Connection

Reattach the back plate and lid securely. Connect the speaker to the network and ensure the microphone is oriented downward for optimal voice detection. Confirm that the junction box is firmly fastened and that all connections are secure.

## Additional Considerations

For distributed audio systems, ensure impedance matching if multiple speakers are connected to a single amplifier to prevent overloading the amplifier. Use shielded cables and proper grounding to reduce noise and interference, especially in networked IP speaker systems. Adjust speaker placement according to room acoustics and coverage requirements to achieve uniform sound distribution.

Following these steps ensures a safe, reliable, and high-performance installation of a speaker head in a distribution box, maintaining both audio quality and compliance with IP protection standards.

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## Article Content

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