



Installation Best Practices



Auri™ can be installed in any venue to enable hearing accessibility. To ensure optimal performance, consider the following installation guidelines.

- Position the transmitter for a direct line of sight to end users.
- Avoid placing the transmitter behind walls or metalwork for optimal coverage.
- Mount the transmitter in the correct vertical, horizontal, or angled orientation for intended coverage.
- Conduct a site commissioning test to ensure minimal coverage and quality requirements are met.
- Check that the transmitter (operating in the 2.4GHz ISM band) is not impacted by Wi-Fi or other signals, and vice versa.

Venue Layout

The most important factor is audience coverage – determine which areas of the venue need Auracast broadcast audio access.

Consider:

- Seating arrangements (seated, standing, or combination).
- Floor layout (level or tiered).
- Open area or multiple levels (mezzanine, balconies) that may affect signal propagation.

Note: Place the transmitter in a location that provides the best line-of-sight between transmitter and receiver(s). If line-of-sight cannot be achieved for all areas, additional transmitters may be necessary for optimal coverage, at the venue's discretion.

Building Construction

Building materials can reduce the effectiveness of Auracast radio signals reaching the audience as intended.

- 2.4GHz radio signals are partially absorbed by walls and randomly reflected from various surfaces, reducing the effective signal at the receiving antenna.
- Ensure transmitter placement is free from obstructions for best coverage.
- Avoid placing transmitters behind solid walls or large metalwork.
- If optimal placement is not possible, increasing transmitter power may help - if output power is not already at maximum, or consider placing another transmitter to increase coverage.

Transmitter Mounting

Correct mounting of the transmitter is critical for optimal radio coverage.

- Generally, mount the transmitter horizontally or vertically (angled mounting may be necessary for tiered seating).
- Ceiling mounting: Ensure the Auri™ logo faces down, and is orientated toward the intended coverage area as per the image for optimal performance.
- Wall mounting: Ensure the Auri™ logo faces into the room with the LED at the bottom, and is orientated toward the intended coverage area as per the image for optimal performance.
- If ideal placement is restricted, the venue may need to install additional transmitters for adequate coverage.



Vertical Mounting with Optimal Positioning Direction



Horizontal Mounting with Optimal Positioning Direction

Commissioning Tools

Radio Coverage

Conduct a site walk during installation to ensure adequate signal coverage. Use an Auri RX1 in commissioning mode (v1.4 FW release feature).

The RX1 in commissioning mode can be used to evaluate transmitter placement (ensure the space is empty prior to running the test).

Audio Quality of Service

Conduct a quality-of-service test during installation using an Auri RX1 in commissioning mode (v1.4 FW release feature).

- After selecting the transmitter locations, use the Quality of Service tool to verify adequate signal quality across the venue for the chosen broadcast.
- Connect to an available broadcast in the venue and repeat the test for each broadcast.
- Run all systems and services (e.g., Wi-Fi) as they would be during normal use.

Coexistence with Other Systems

Wi-Fi and Auracast

While designed to coexist, strong Wi-Fi signals may impact Auri™, and vice versa. Log and report any issues for further investigation.

Wireless DMX and Auracast

Wireless DMX, particularly in the 2.4GHz band, may interfere with Auracast signals. Be aware of this when discussing installations with venue.

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