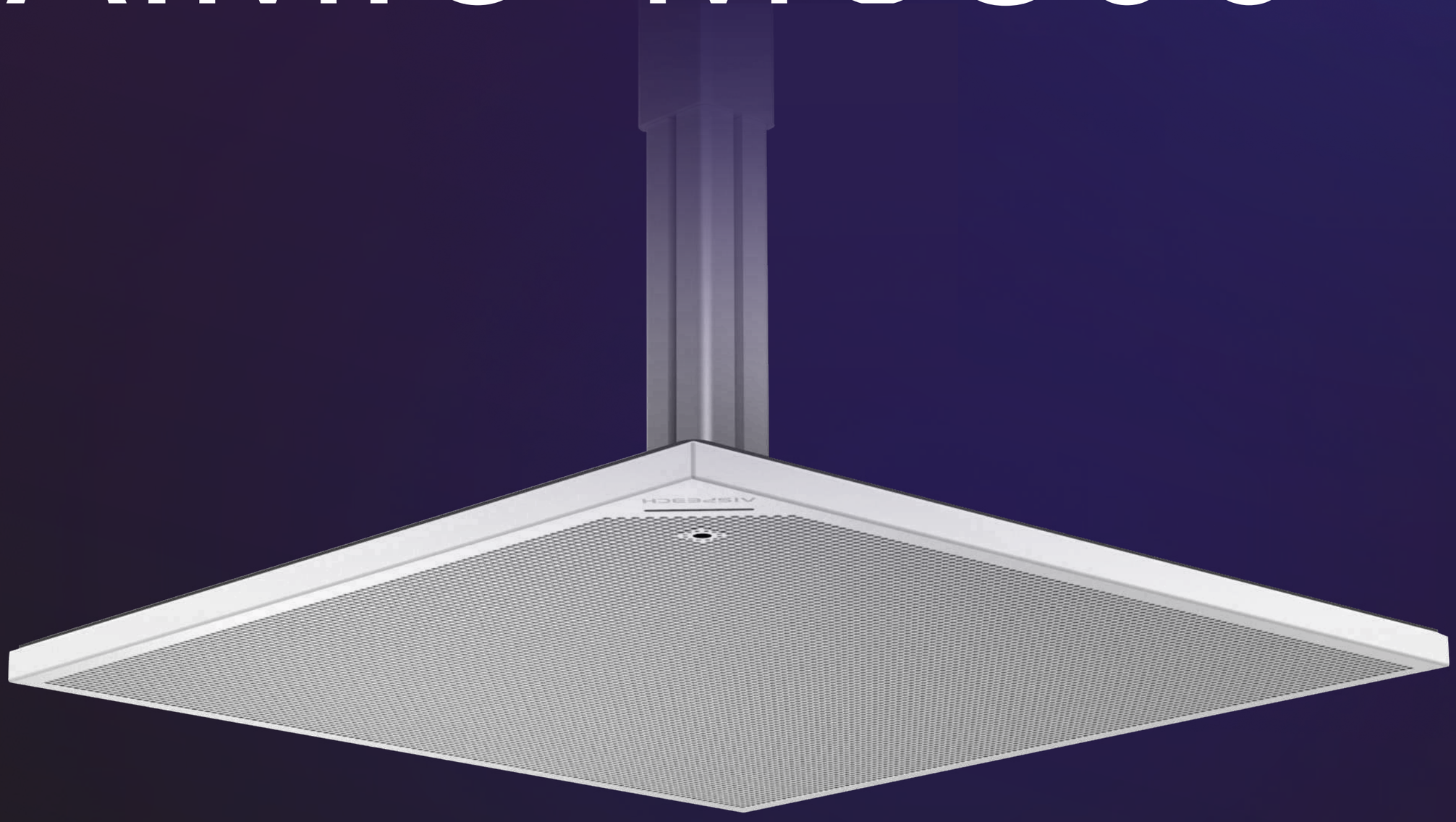
All-in-One Ceiling Mic-Speaker AIMIC-MCS06



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AISPEECH

CATALOG

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AIMIC-MCS06 Scene Image

Product Introduction

The AISpeech MCS06 is an all-in-one ceiling mic-speaker designed for meeting rooms up to 60 m². It integrates a 32-element microphone array with dual 15 W loudspeaker drivers and supports Dante digital cascading. When paired with the AISpeech Dante Audio Adapter DU44, the system offers automatic network self-configuration upon power-up, eliminating the need for complex router setups. Built-in AI algorithms effectively handle double-talk and echo, while four configurable pickup zones—combined with advanced noise reduction and dereverberation technologies—deliver accurate voice pickup and crystal-clear conversations. Its integrated design significantly enhances collaboration efficiency in mid-sized meeting rooms.

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Main Features

All-in-One Acoustic Architecture

Features an integrated pickup and amplification design, equipped with a 32-element high-sensitivity microphone array, a 4-inch woofer, and a 1-inch tweeter. This architecture delivers uniform sound coverage, effectively eliminating acoustic blind spots.

Array & Coverage

Built-in 32-unit high-sensitivity MEMS microphone array achieves a 6-meter effective pickup radius. It precisely captures speech from the center of the table to the corners, with a single device covering up to 60m² of conference space.

Patented AI Audio Optimization

Equipped with ClearSpeakAI algorithms supporting adaptive AI noise reduction and deep learning dereverberation. Built-in AEC and beamforming technology allow for stress-free double-talk capabilities within 5 meters, ensuring clear, echo-free communication even when multiple people speak simultaneously.

Intelligent Zoning & Isolation

Supports 4 independently configurable pickup zones, allowing for visual customization of zone location、shape and size. Features intelligent mute zone isolation to actively block interfering noise from equipment areas or non-participant seating.

*Rapid Deployment & Networking

Supports Dante and PoE, delivering audio, control, and power via a single cable. Pairs with the AIDIO-DU44 for automatic routing and adaptive configuration upon power-up, significantly streamlining deployment efficiency.

Broad Compatibility & Expansion

Seamlessly compatible with mainstream conferencing software like Microsoft Teams, Zoom, Tencent Meeting, and DingTalk. Supports unlimited cascading for large spaces and offers API interfaces for central control integration and camera voice-tracking synchronization.

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Product Specifications

Function	Specification
Basic	• Product Model:AIMIC-MCS06 • Product Color: White • Product Dim.:597mm*597mm*72.5mm • Packaging Dim.:705mm*705mm*169mm • Master Carton Dim.:726mm*720mm*196mm • Net Weight:<6kg • Power Supply: PoE+ • Installation: Suspended
Audio Performance	• Available Pickup Zones: 4 • Sampling Rate: 48kHz • Pickup Area Type: Configurable（Conferencing and Mute） • Maximum Background Noise Suppression: 35dB • AI Noise Reduction：Support • AI Reverb Suppression: Support • AI Echo Cancellation: Support • AI Full Duplex: Support （within a 5-meter pickup radius） • Mute Zone Settings：Support
Microphone Spec	• Microphone Type: 32-mic MEMS array • Microphone Sensitivity: -38 dBV/94 dB SPL @ 1 kHz • Microphone Frequency Response: 20 Hz – 20 kHz • Dynamic Range: 84 dBA • Maximum SPL: 104 dB SPL • Signal-to-Noise Ratio: 73.9dB@1kHz, 94dB SPL A-Weighted • Device Sensitivity: -10.22 dBFS/Pa @ 1 kHz • Device Frequency Response: 100 Hz – 15 kHz
Dante Audio	• Dante Audio: Supported • Remote Conferencing Channel: 1

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Product Specifications

Function	Specification
Speaker Spec	• Mid-woofer: 15 W, 1 pc • Tweeter: 15 W, 1 pc • Frequency response: 80 Hz–20 kHz • Max SPL: 90 dB @ 1 kHz
Cascade Function	• Cascade Quantity: Unlimited • Cascade Method: Dante Audio /PoE Network cable cascade
Interfaces	• Dante/PoE: 1 • USB Type-C: 1
Buttons	• Reset Button: 1
Other	• Operating Temperature: 0°C to 40°C • Storage Temperature: -20°C to +70°C • Operating / Storage Humidity: 20% to 95% RH • Power Consumption: 20W • Certifications：FCC、CE

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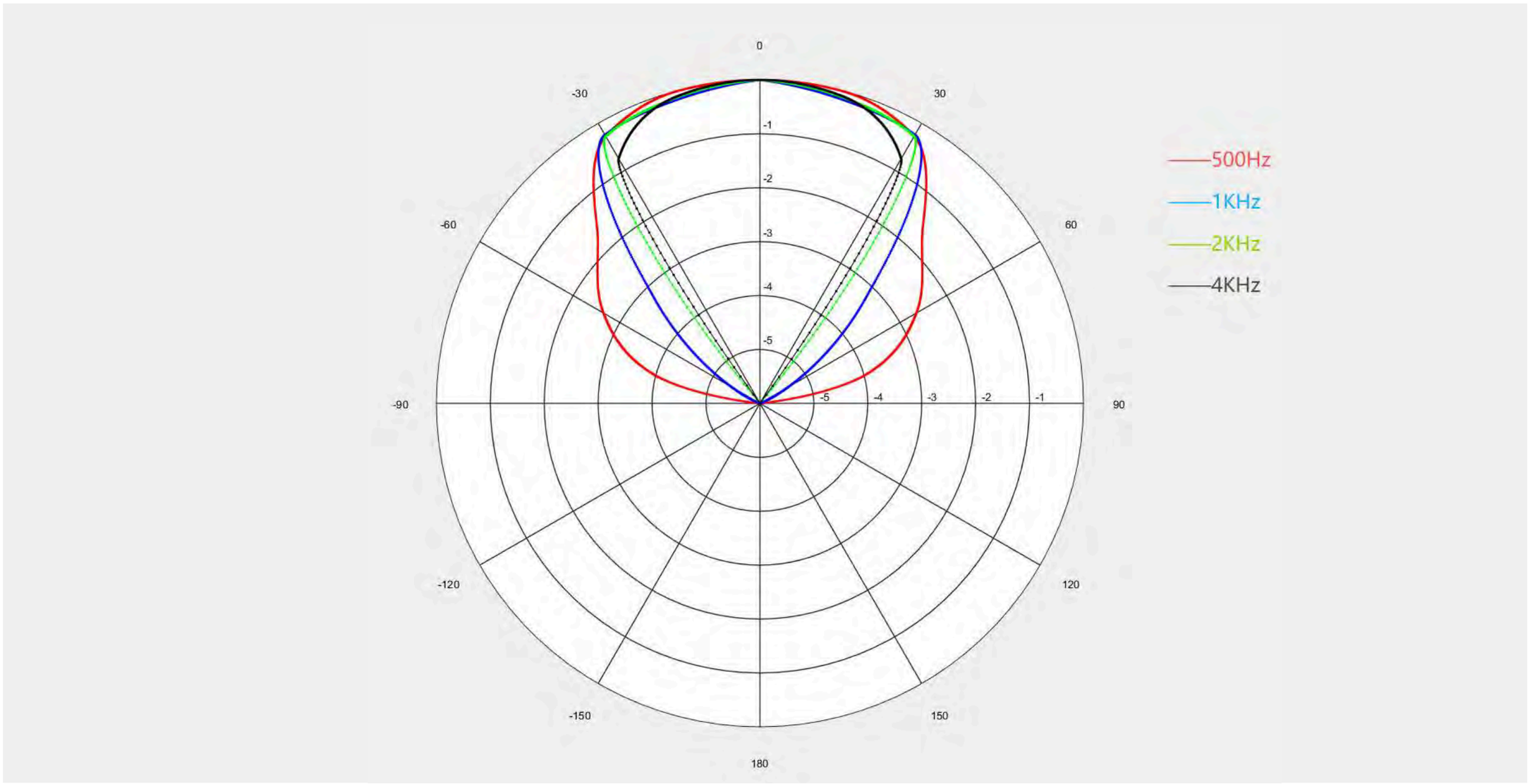
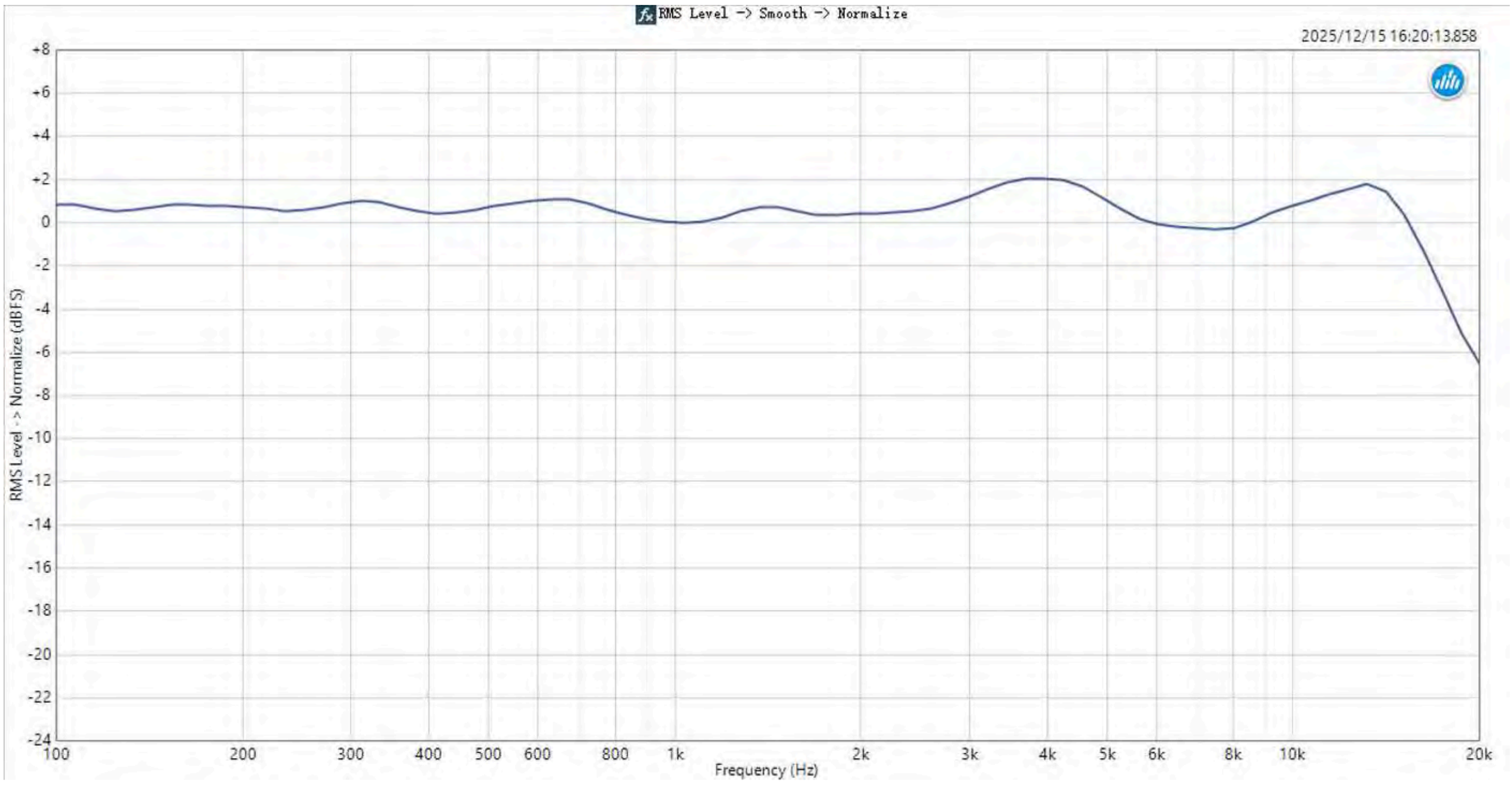
Audio Performance



Polar Diagram



Frequency Response Curve

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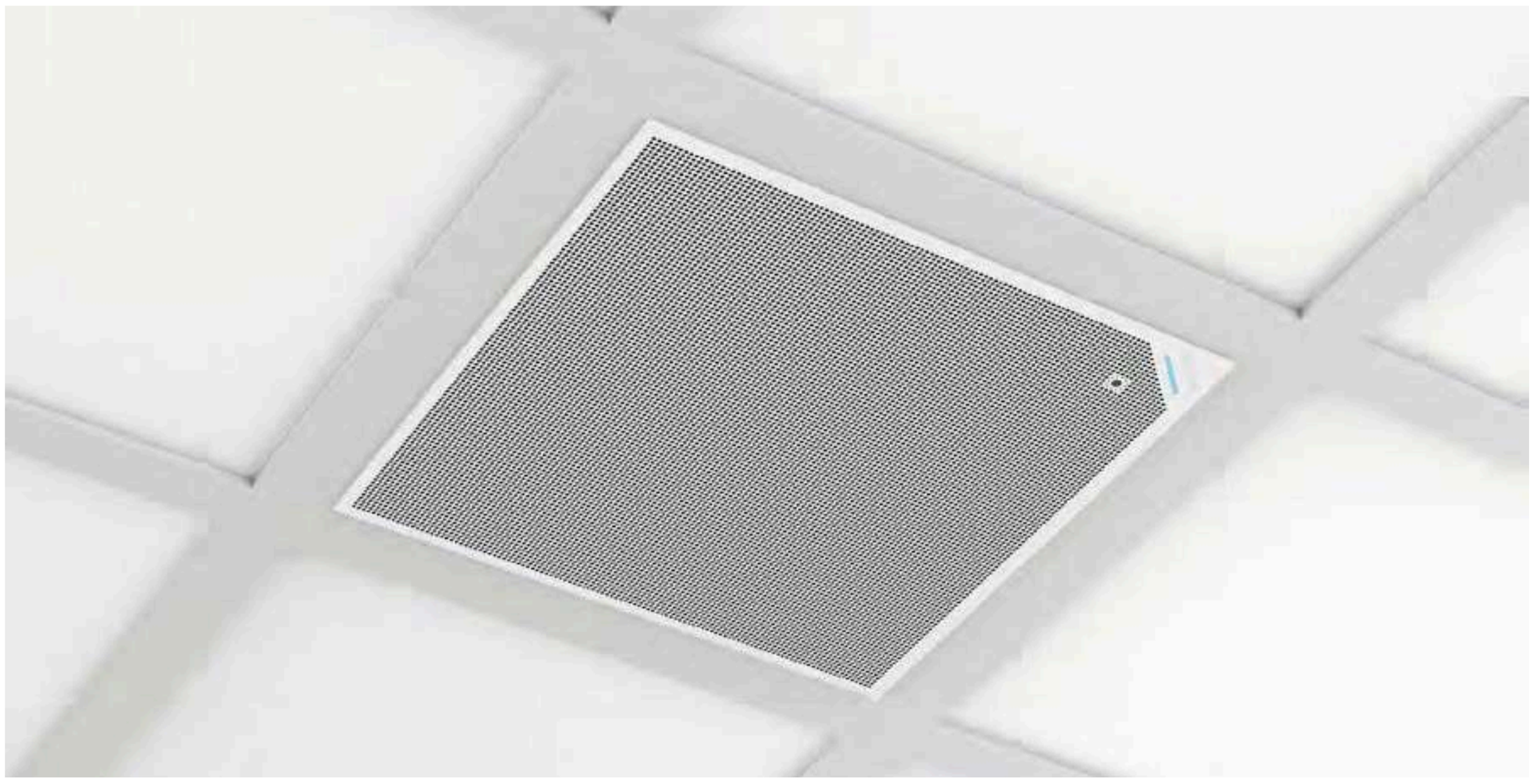
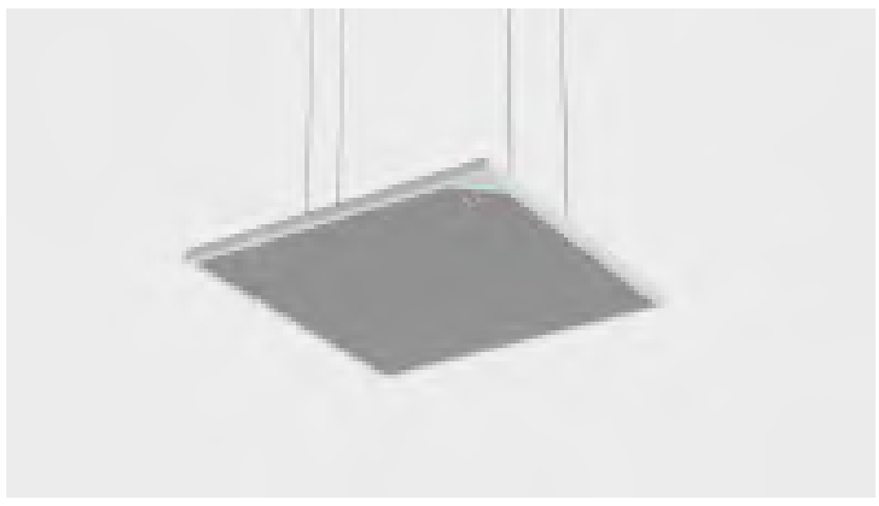
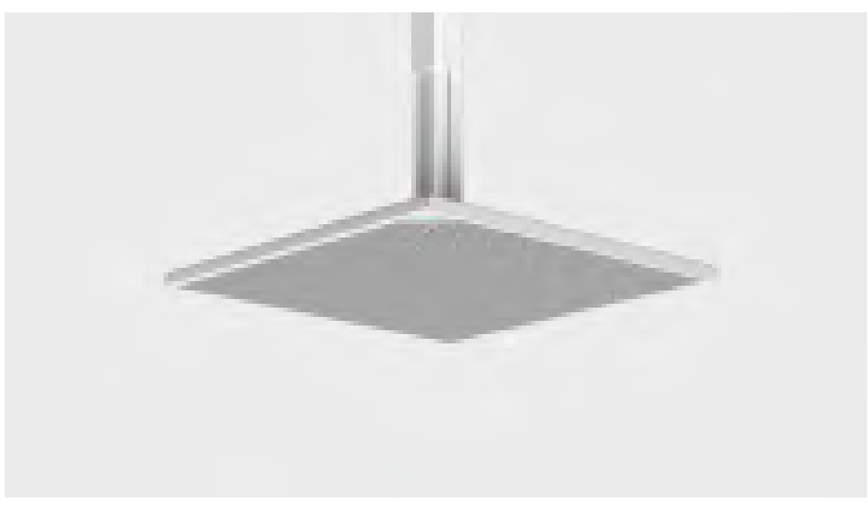
Installation methods



Method 1: Ceiling Mount (Flush-mount / Surface-mount)



Method 2: Suspension Mount (Steel Cable)



Method 3: Pole Mount (Suspended Rod)

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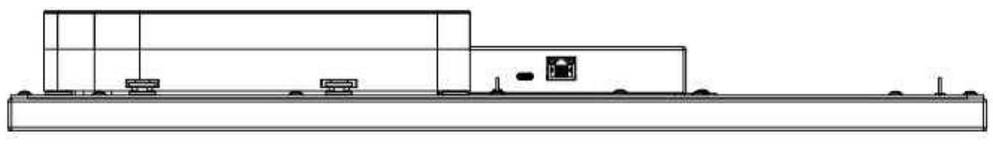
External Dimension

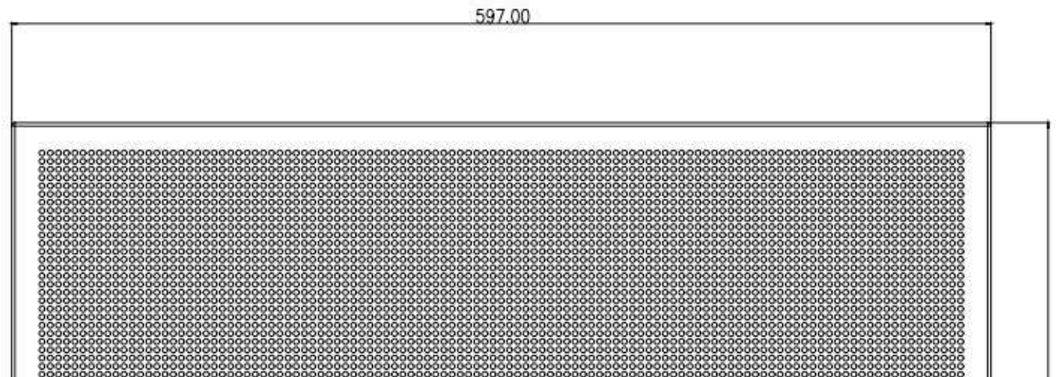
Unit: mm



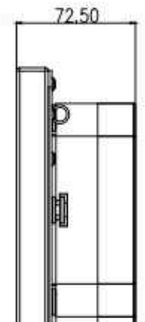
Top View



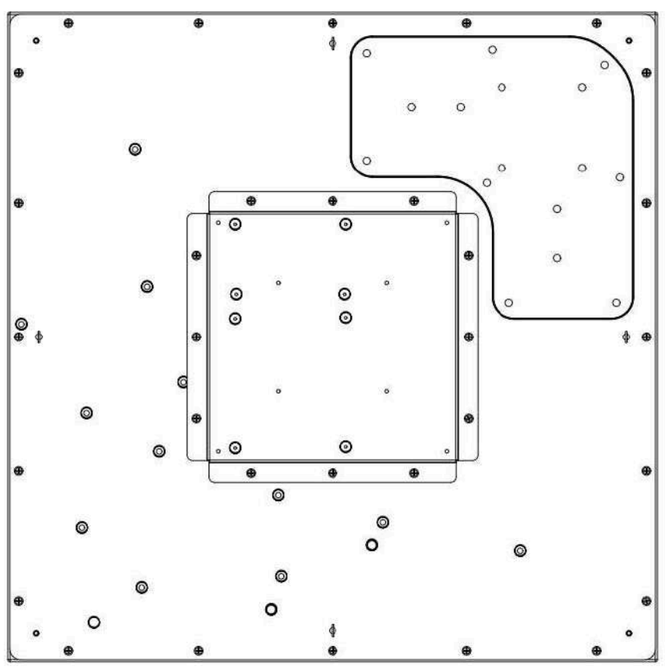
Left View



Front View



Right View



Rear View

Upward View

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Selection Guide

This section provides selection guidance for this product, enabling quick configuration of complete conference audio-visual solutions.

Category	Model
DSP	• AIDAP-DP88 • AIDAP-DP44
Camera	• AIVIS-C60 • AIVIS-C40T
AI Box	• AIVIS-MT100
Adapter	• AIDIO-DU44(Estimated Release: Q1 2026) • AIDIO-DU11
Desk Button	• AIMIC-B100(Estimated Release: Q1 2026)

*** Feature is going to support in 2026 Q1**

Learn more : https://meeting.aispeech.com/

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