Matrix Array Microphone AIMIC-MA600D



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AISPEECH

CATALOG

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AIMIC-MA600D Scene Image

Product Introduction

The AISpeech MA600D is an industry-first high-end matrix microphone designed for versatility. Featuring unique audio algorithms and a flexible structural design, it supports multiple installation methods—including desktop, floor stand, pole mount, suspension cable, and wall mount—delivering crystal-clear voice capture and reproduction for multi-functional conference spaces.

- A New Benchmark for Sound Reinforcement (Voice Lift) Delivers a superior audio experience with wider coverage (3m pickup radius for reinforcement), higher gain (>18dB), pristine sound quality (48kHz sampling rate), and ultra-low latency (<15ms). Powered by dual AI algorithms for Noise Reduction and Feedback Suppression, it seamlessly balances local sound reinforcement with remote video communication needs.
- Intelligent Beamforming for Diverse Scenarios Leveraging built-in AI capabilities and dynamic pickup beams, a single MA600D unit adapts to traditional speaking modes. It supports various conference scenarios, including Free Discussion and Chairman Mode.
- Proprietary AI Processing Equipped with AISPEECH’s self-developed AI algorithms, the MA600D provides Intelligent Noise Reduction, Reverberation Cancellation, Howling Suppression, Automatic Gain Control (AGC), and Speaker Tracking. These features significantly enhance meeting audio quality and expand application versatility.

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Main Features

New Benchmark for Sound Reinforcement

Sets a new standard for local sound reinforcement with a 3m effective Voice Lift pickup radius and >18 dB gain. Featuring a 48 kHz high sampling rate and ultra-low latency (<15 ms), it ensures crystal-clear audio. Built-in AI feedback suppression (AFC) eliminates howling without external processors, guaranteeing stable and transparent sound amplification.

Superior Long-Range Pickup

Powered by a 64-unit microphone array and deep learning models, the MA600D achieves a 6m pickup radius, ideal for 40-60m² spaces. Integrated AI algorithms for noise reduction, dereverberation, and vocal enhancement ensure remote participants hear every word clearly, free from distractions.

Flexible Deployment & Spatial Intelligence

Supports six installation methods including tabletop, wall, and ceiling mounts. Built-in sensors (6-axis gyroscope and ambient light) and 1,000 spatial beams automatically adapt to the environment. This intelligent coverage utilizes four distinct beamforming models to optimize audio capture for any specific mounting configuration.

*One-Click Scenario Switching

Configurable with up to 24 pickup zones for versatile applications. It defaults to multi-person discussion mode but supports a seamless one-click switch to "Lecture Mode" via the Chairman Unit. This instantly focuses the beam on the speaker and suppresses surrounding noise for uninterrupted presentations.

Comprehensive Connectivity & Ecosystem

Features triple-play connectivity: It integrates seamlessly with AISpeech ceiling mics or traditional microphones for full-scene coverage and offers open APIs for easy third-party system control.

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Product Specifications

Function	Specification
Basic	• Product Model:AIMIC-MA600D • Product Color: Gray,Silver • Product Dim.：505mm*90mm*32.5mm • Packaging Dim.:577mm*179mm*124mm • Master Carton Dim.:612mm*377mm*397mm • Net Weight：<2kg • Power Supply: PoE+ • Installation Methods: Tabletop Placement , Floor Stand, Pole Mount, Suspension Cable, Wall Mount (Horizontal), and Wall Mount (Vertical)，and more
Audio Performance	• Available Pickup Zones: 24 (12 Teleconference + 12 Voice Lift) • Sampling Rate: 48kHz • Pickup Area Type: Configurable（Conferencing, Voice Lift, Mute） • Beam Patterns: 4 types (Supports auto-detection of mounting angle with automatic prompts) • Zone Isolation: >20 dB • Maximum Background Noise suppression: 35dB • AI Noise Reduction：Support • AI Reverb Suppression: Support • AI Echo Cancellation: Support • AI Full Duplex: Support • AI Feedback Suppression: Support • Mixing Channels: Supported • Intelligent Mixing: Supported • Latency (without ClearSpeakAI) ：4ms • Latency (with ClearSpeakAI) ：15ms • Voice Lift Gain: >18 dB
Sensors	• Ambient Light Sensor: 1 • Gyroscope: 6-axis, 1

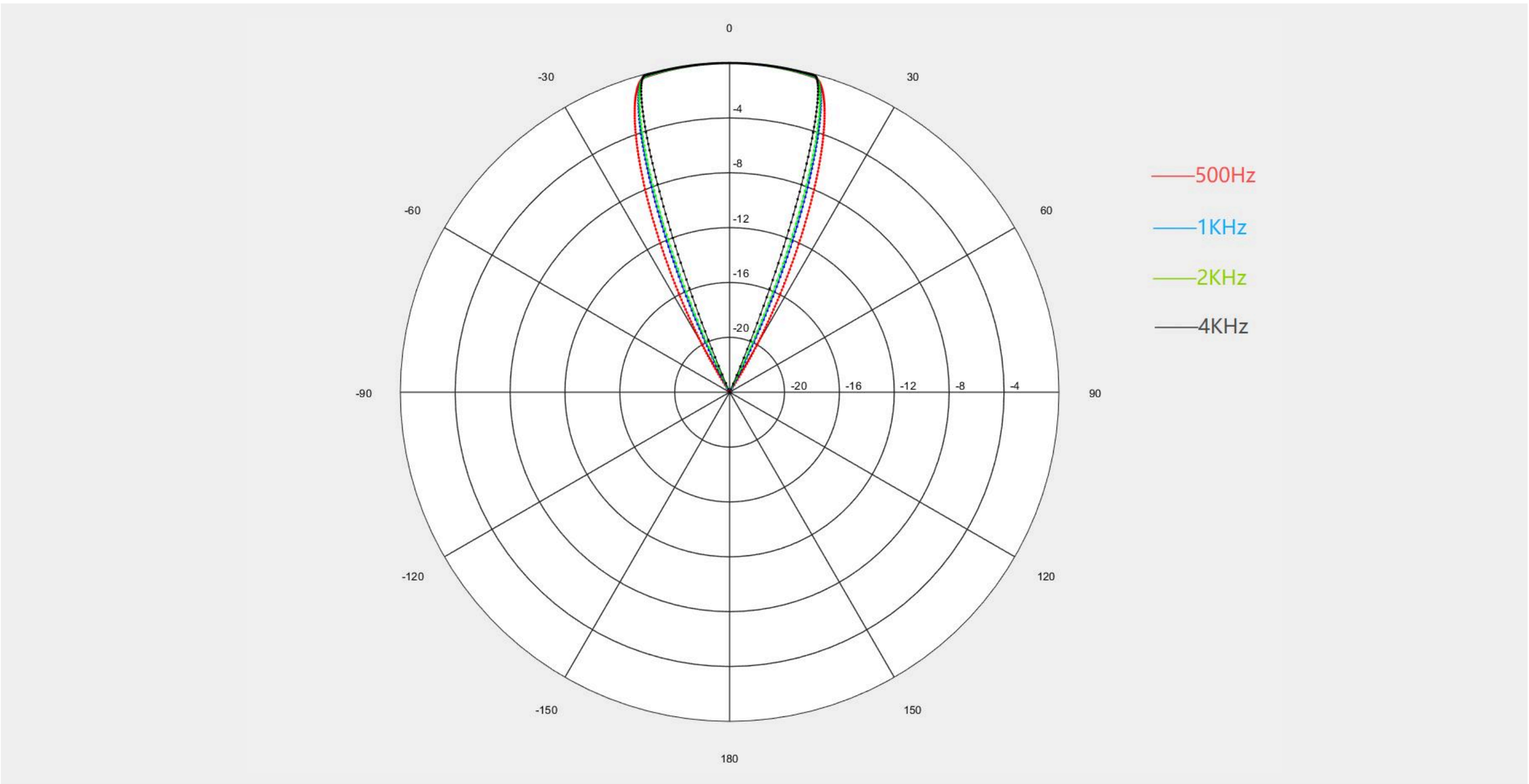
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Product Specifications

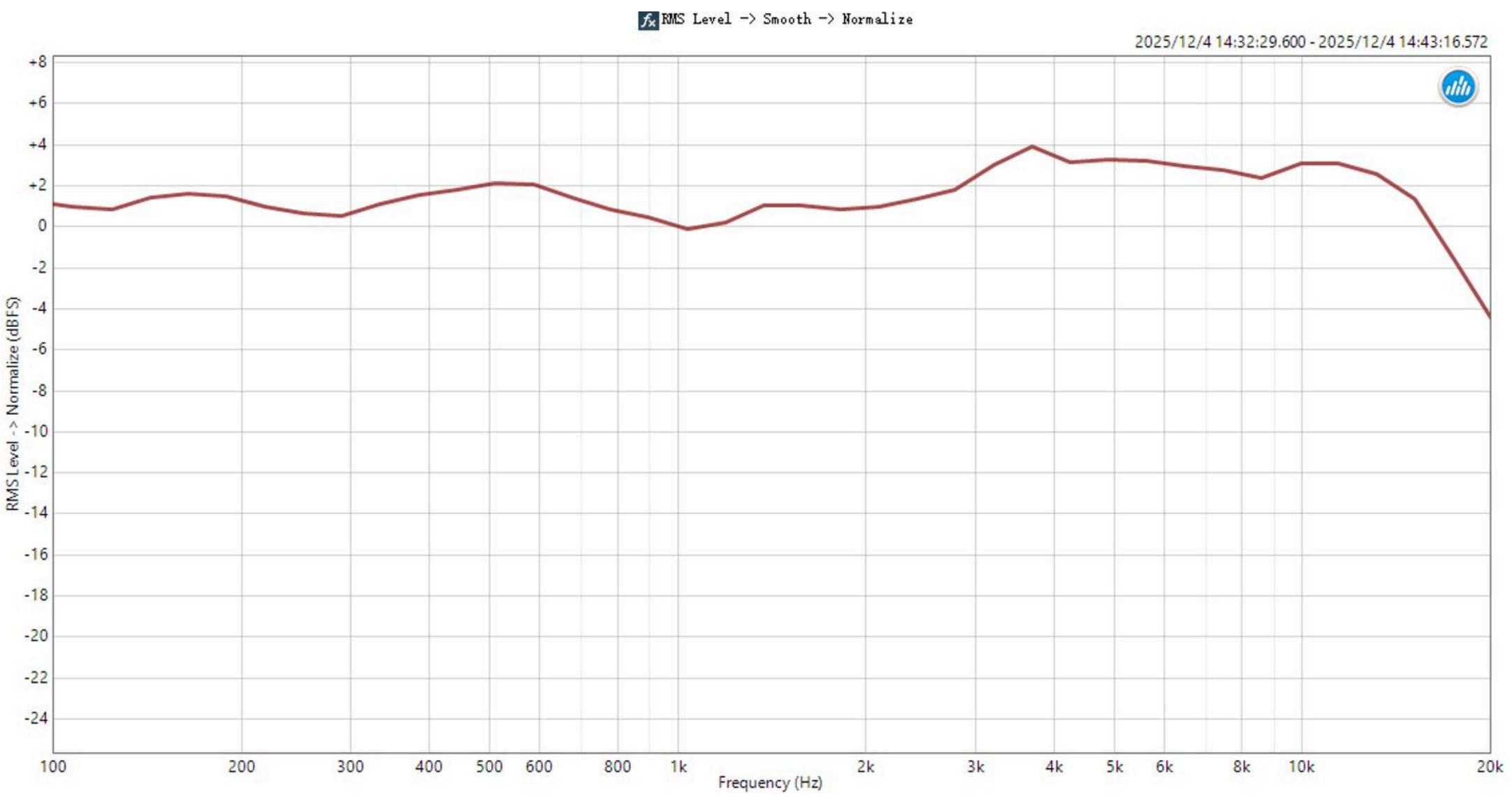
Function	Specification
Microphone Spec	• Microphone Type: 64-mic MEMS array • Microphone Sensitivity: -38 dBV/94 dB SPL @ 1 kHz • Microphone Frequency Response: 20 Hz – 20 kHz • Dynamic Range: 84 dBA • Maximum SPL: 104 dB SPL • Signal-to-Noise Ratio: 73.9dB@1kHz, 94dB SPL A-Weighted • Device Sensitivity: -10.22 dBFS/Pa @ 1 kHz • Device Frequency Response: 100 Hz – 15 kHz
Dante Audio	• Dante Audio: Supported • Remote Conferencing Channel: 1 • Local Sound Reinforcement Channel: 1
Cascade function	• Cascade Quantity: Unlimited • Cascade Method: Dante Audio /PoE Network cable cascade
Interfaces	• Dante/PoE Port: 1 • USB Type-C: 1 • Analog Inputs: 2 • Analog Outputs: 2
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: 12W • Certifications：FCC、CE

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Audio Performance



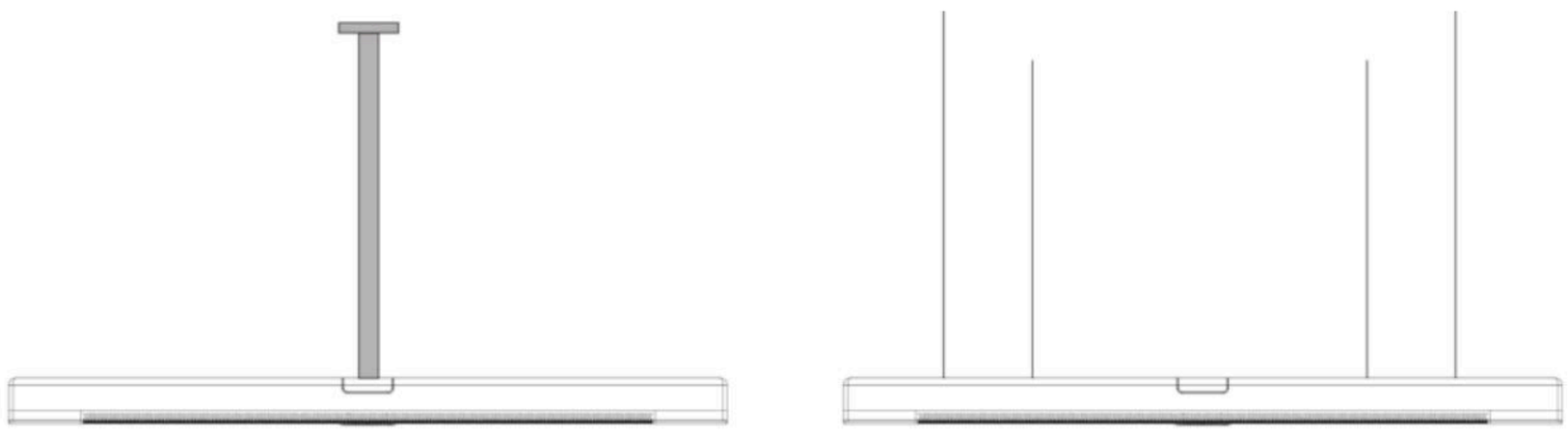
Polar Diagram



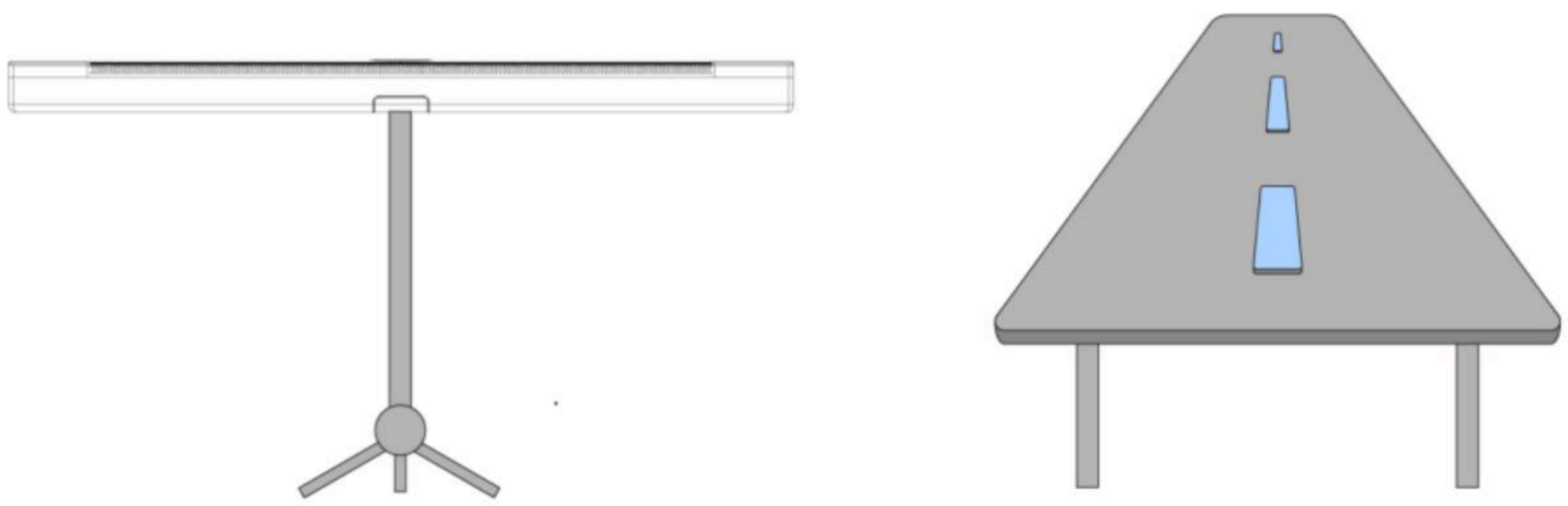
Frequency Response Curve

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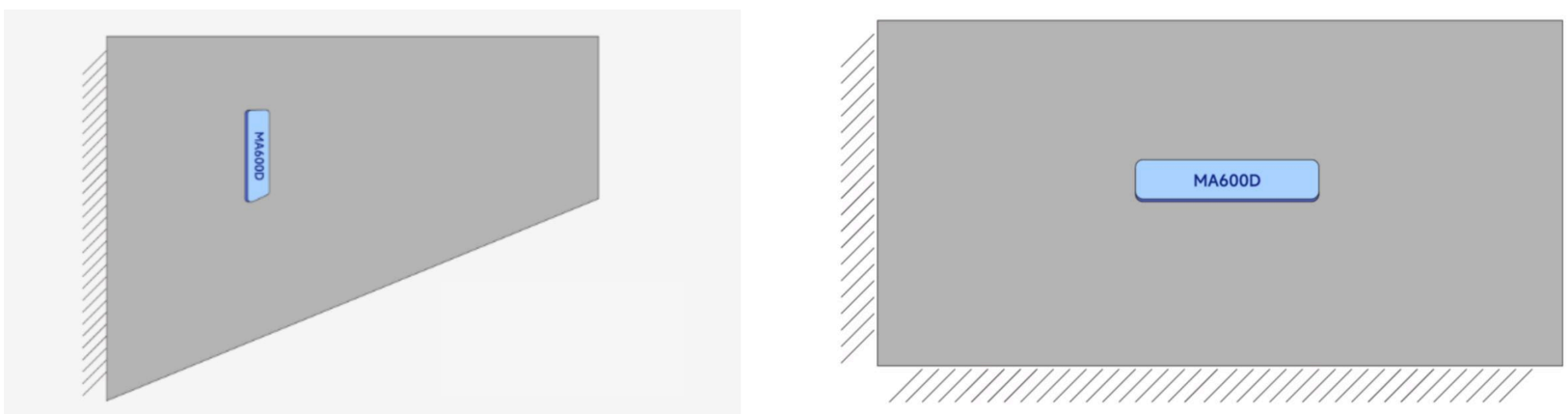
Installation methods



Method 1: Ceiling Installation



Method 2: Horizontal Installation

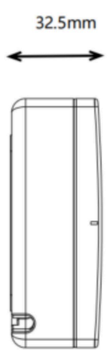


Method 3: Wall Installation

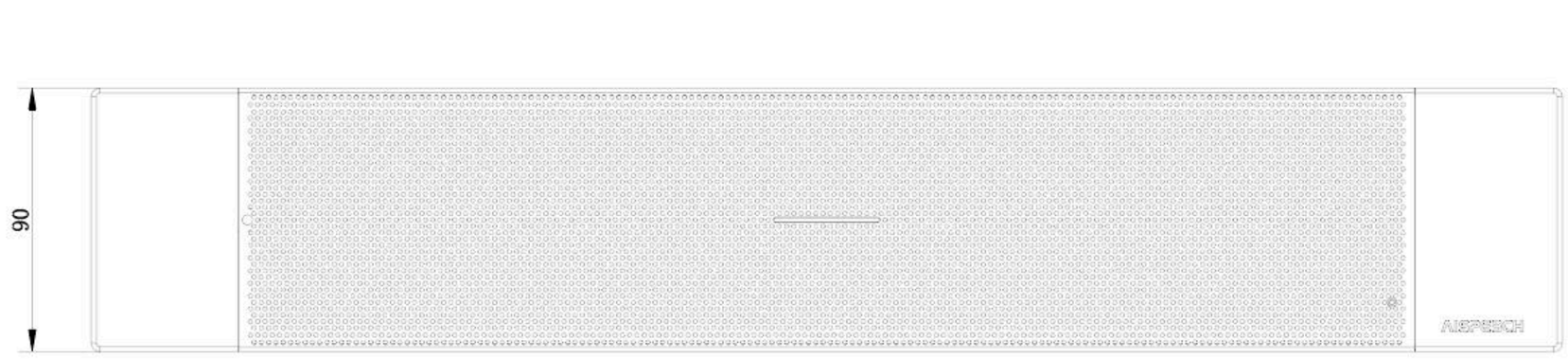
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External Dimension

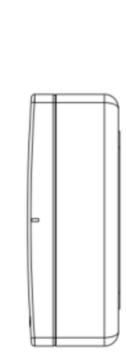
Unit: mm



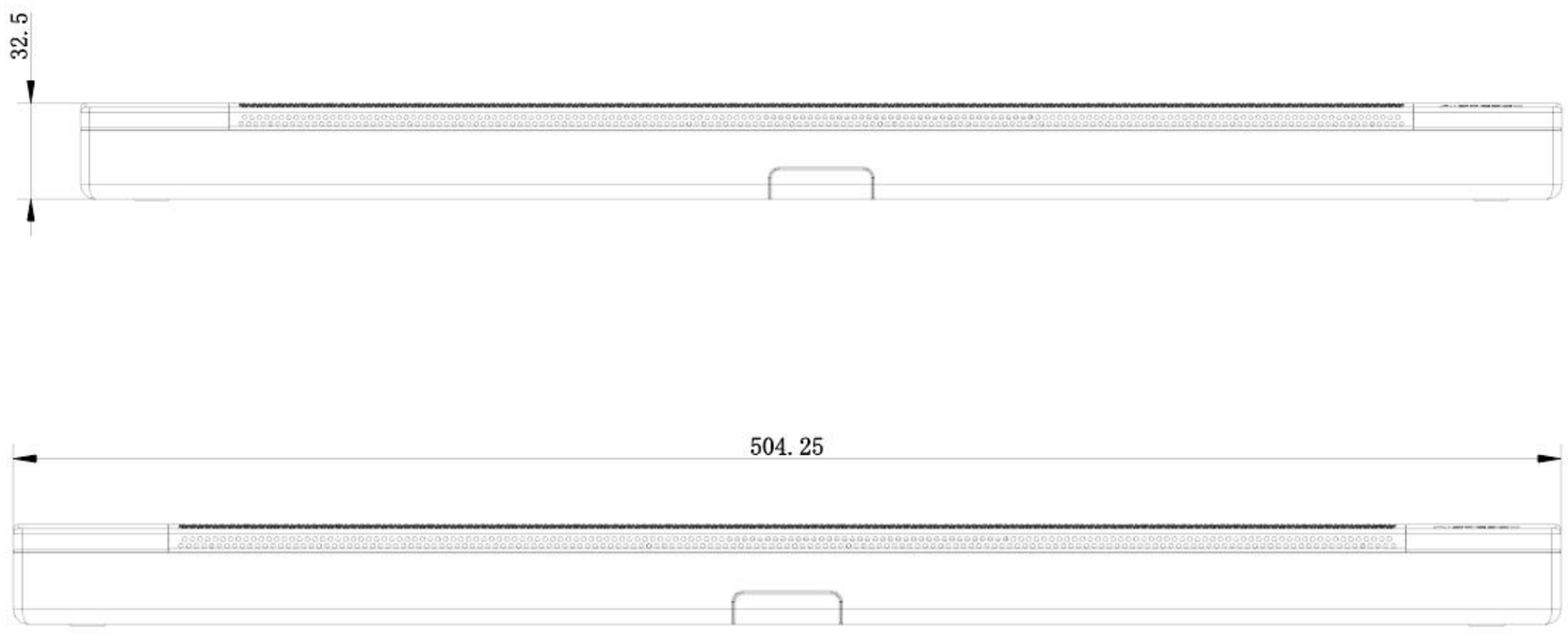
Left View



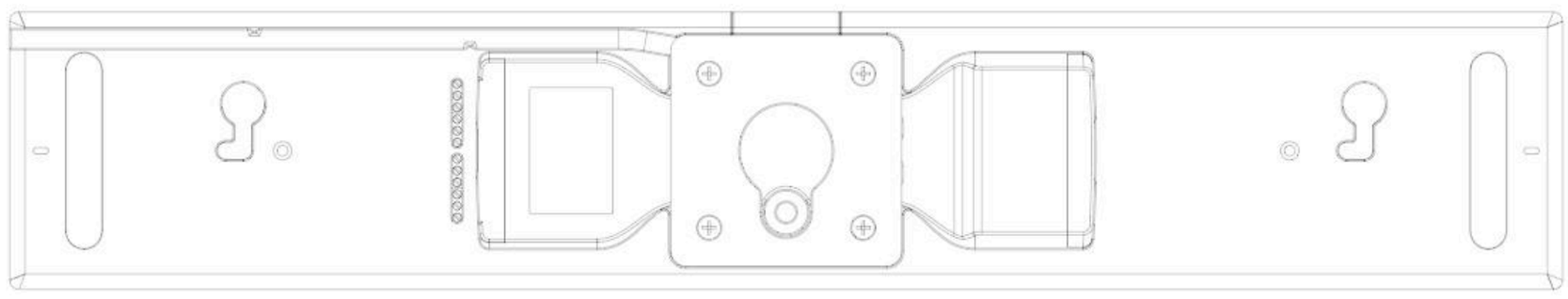
Top View



Right View



Front View



Rear 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 • AIDIO-DU11
Desk Button	• AIMIC-B100

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