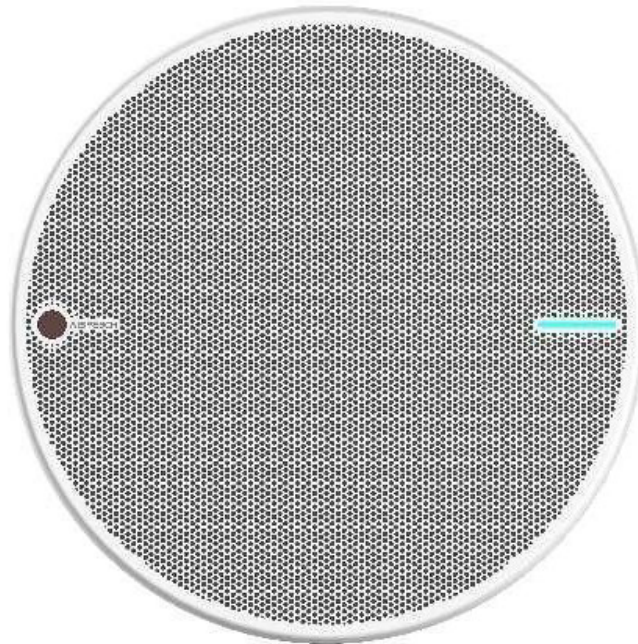# High-end Ceiling Microphone MC08 (Educational)

The MC08 is a high-end ceiling microphone for teaching and learning scenarios from AISpeech, providing 8 individually assignable pickup zones for precise pickup configurations. The MC08 uses Dante digital audio technology for stable, high-fidelity digital audio transmission and is widely compatible with digital audio ecosystems for IP digital management. The MC08 also provides an analogue audio interface, which is compatible with traditional legacy audio system solutions. A single MC08 can cover the entire podium area, taking into account the three-in-one capabilities of classroom sound reinforcement, remote teaching and course recording and broadcasting, and through self-developed AI algorithms, it provides high-definition noise reduction, reverberation suppression, whistling suppression, automatic gain and voice transcription functions to effectively improve the teaching effect, etc. The MC08 supports a variety of suspension methods and PoE+ power supply, which meets the needs of the deployment of the teaching scenarios.

Applicable scenes: normal classroom, intelligent classroom, recording and broadcasting classroom and other teaching scenes

Product Characteristics

- **Classroom sound reinforcement, remote teaching, course recording and broadcasting teaching scenarios three in one, to fully meet the diverse needs of the education industry**

Classroom Sound Reinforcement: With superior audio capture and AI-AFC algorithms, the MC08 ensures that the teacher's voice covers the entire classroom evenly and clearly; **Remote Teaching:** With built-in AI HD Noise Reduction and Auto Gain, combined with Dante digital audio technology, the MC08 delivers stable transmission and an immersive remote interactive experience for teachers and students; **Lesson Recording:** AI De-reverberation technology creates a precise mixing and pickup effect. AI reverberation suppression technology creates a precise mixing effect, whether it is a teacher's explanation, students' questions or classroom interactions, it can be clearly preserved, capturing every important moment.

- **ClearSpeakAI patented audio algorithm, fully optimised for educational scenarios, creates a pure teaching environment.**

MC08 is based on hundreds of thousands of hours of noise scene data, combined with a deep learning model with millions of parameter scales, to accurately eliminate noises such as fans in the classroom, students turning over books, podium boards and cicadas chirping outside the window. Intelligent gain function ensures that the sound is always clear and stable when the teacher moves in different positions; intelligent reverberation suppression technology provides a natural and comfortable listening experience in sound reinforcement or distance learning.

- **32 microphone arrays, 8 independently assignable pickup zones, full coverage of the podium area, capturing lecture details**

The MC08 features a 32-unit omni-directional microphone array that easily covers the entire podium area. Whether teachers are standing at their desks, walking around the podium area, or even writing with their backs to the blackboard, the MC08 captures every acoustic detail and ensures that the message is conveyed in its entirety. It also supports eight independently configurable pickup zones, divided into four call pickup zones and four PA pickup zones. The visual configuration tool allows users to configure the coverage, size, type and audio parameters of each pickup zone, providing precise pickup solutions for different lecture scenarios.

- **Intelligent preferred sound pickup function, refined teaching sound pickup needs, play a critical role in teaching scenarios**

MC08 supports 8 independent configurable pickup zones, through the mute zone set to effectively shield the students in the region of the discussion of the sound, to enhance the sound quality of the courseware recording and distance learning when sent; through the local sound reinforcement pickup zone can be accurately delineated podium range, more focused on the sound reinforcement lecturer teaching sound.

- **Dante+ analogue audio mixing for a topologically simple, highly compatible teaching audio system**

The MC08's Dante + analogue audio hybrid design simplifies the topology of instructional audio systems while retaining analogue audio interfaces for easy connection and commissioning with legacy equipment. This design reduces system complexity and improves reliability and ease of use, making the MC08 easily adaptable to both new systems and upgrades to existing systems.

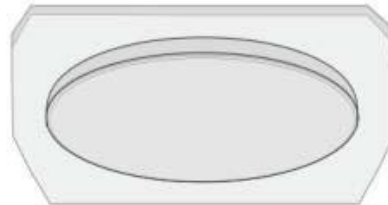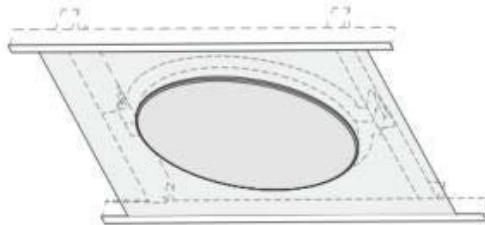- **48kHz high audio sampling to enhance audio clarity and teaching immersion**

The MC08 uses 48kHz HD sampling to ensure that more audio detail is captured. A high audio sampling rate means that more sound information is retained and delivered, enabling greater clarity and dynamic range to be maintained. A 24-bit sampling depth is also used to ensure audio accuracy for a more realistic sound with a wider dynamic range to avoid distortion. This not only allows students to hear the teacher's explanations more clearly, but also enhances the immersion and sense of scene in teaching and learning, increasing students' interest and participation.
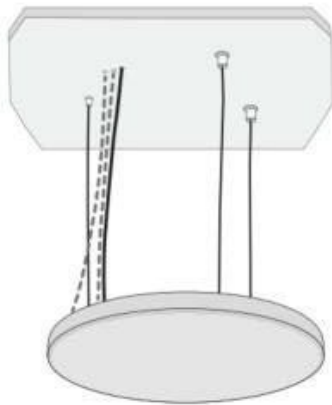
Product Specification

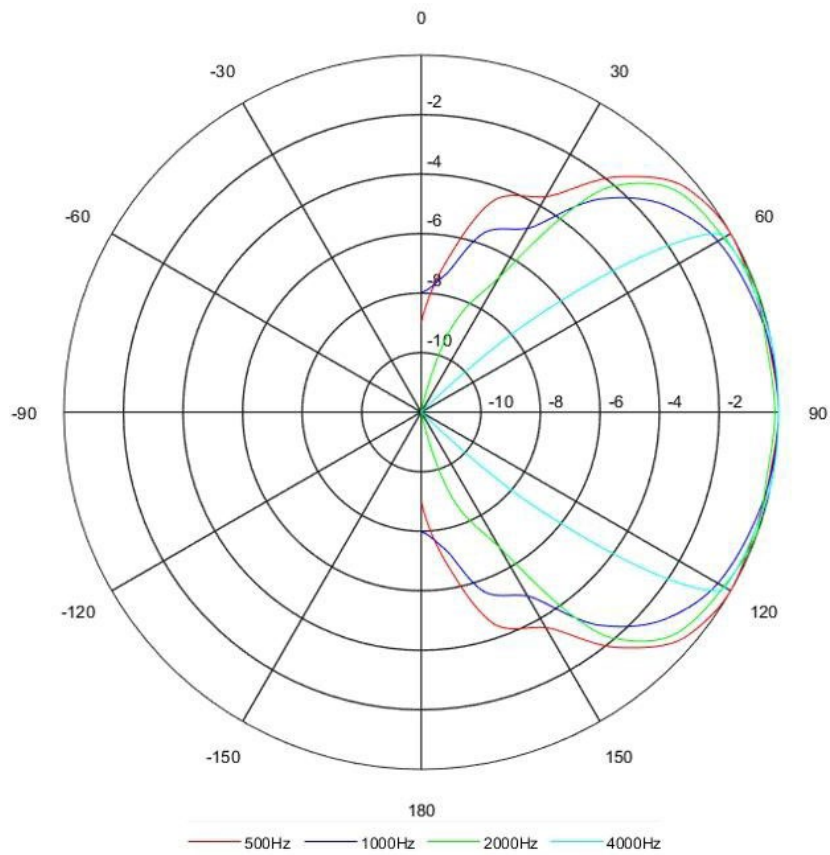| Item	AIMIC-MC08
Basic Specifications	Product Colour: White Product Size: 445mm*445mm*57.5mm Product Net Weight: <3KG Power supply mode: PoE+ power supply Installation: Suspension
Audio Performance	Available pickup zones: 8 (4 PA pickup zones, 4 call pickup zones) Sample rate: 48kHz Pickup Zone Type: Configurable Maximum background noise rejection: 35dB AI noise reduction: Support AI Reverberation Suppression: Support AI Whistling Suppression: Support AI Echo Cancellation: Support AI Full Duplex: Support Mix Channels: Support Smart Mix: Support
Microphone Specifications	Microphone Type: 32 Cell MEMS Microphone Array Microphone Sensitivity: -38dBv / 94dB SPL @1KHz Microphone Frequency Response: 20 Hz ~20,000 Hz Dynamic Range: 84dB(A) Maximum Sound Pressure Level: 104dB SPL Signal-to-Noise Ratio: 73.9dBA Device Sensitivity: -10.22dBFS/Pa Device Frequency Response: 100 Hz to 15,000 Hz
Dante Audio	Dante Audio: Supported Remote Conference Channel: 1 Local PA Channel: 1
Port	Dante/PoE network port: 1 XLR male: 1 XLR Female: 2 RESET button: 1
Other specifications	Working Temperature: 0℃~40℃ Storage Temperature: -20℃~+70℃ Operating/storage humidity: 20 to 95% RH Whole power consumption: 12W

Installation method

Method 1:Flush mounted in the ceiling　Method 2:Adsorption mounted under the ceiling

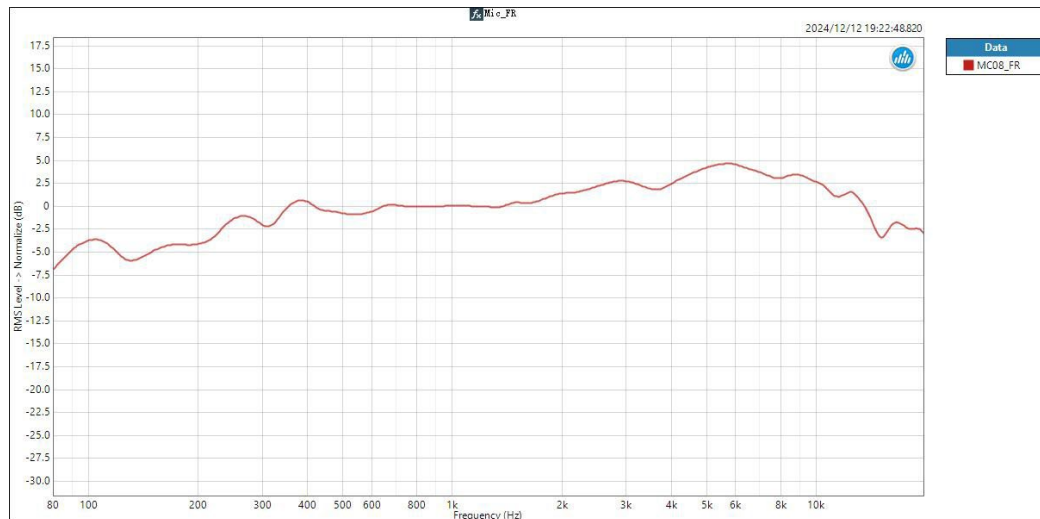Method 3: Wire rope suspended under the ceiling Method 4:Pole mounted under the ceiling

Polar Diagram

Frequency Response Curve

External Dimension

Unit: mm

Top View

□445

Left View   Front View   Right View

Upward View

275.8

210

210

180

275.8

Product Information
Area

340

Rear View

57.5

21.5