

# High-end Ceiling Microphone MC04 (Educational)

- **Compact Podium Coverage**
- **24-Element MEMS Array**
- **ClearSpeakAI Audio Algorithm**
- **Pure Analog Interfaces**
- **Flexible Expansion**
- **Multi-Scenario Teaching Support**

The AIMIC-MC04 is a premium ceiling array microphone engineered by AISpeech specifically for standard classroom environments. It features precise pickup zone configuration, enabling highly refined audio capture over the podium area. Equipped with an analog audio interface, the MC04 seamlessly integrates into legacy analog audio systems for effortless deployment. A single MC04 unit effectively covers the core podium zone, focusing on local sound reinforcement and lecture recording. Powered by proprietary AI algorithms, it delivers HD noise reduction, reverberation suppression, acoustic feedback cancellation (AFC), and automatic gain control (AGC) to significantly elevate instructional audio quality at a highly competitive cost. Supporting versatile mounting options and PoE+ power supply, the MC04 is an ideal choice for cost-effective educational audio upgrades.

# Main Characteristics

### Precise Coverage for Compact Podiums; Cost-Effective Local Sound Reinforcement

2-meter precise sound reinforcement radius for small classroom podiums; clearly captures the instructor at the lectern, blackboard, or within a defined area while reducing vocal fatigue.

### 24-Element Array, Preserving Core Voice Details

Scientifically arranged 24-element omnidirectional MEMS microphone array delivers precise acoustic coverage over the core podium area and preserves full, natural human vocals.

### ClearSpeakAI Algorithm Optimized for Educational Environments

Suppresses chalk writing, page-turning, and ceiling-fan noise while providing dereverberation, Acoustic Feedback Cancellation (AFC), and Automatic Gain Control (AGC).

### Pure Analog Interfaces for Simple Legacy Audio Integration

4-in/2-out Euroblock (Phoenix terminal) analog interface connects directly to legacy amplifiers, mixers, and speakers without changing existing wiring infrastructure.

### Flexible Deployment & Seamless Expansion

Supports 802.3at PoE+ single-cable deployment, multiple suspension methods including pendant pole and steel wire suspension, and cascading up to two units for wider podium areas.

### Adaptable Teaching Scenario Support

Supports flexible teaching scenarios by delivering the instructor's voice to in-room amplification systems, remote participants, and recording systems.

# Product Specifications

#### Basic Specifications

| | |
|---|---|
| Product Color: | Elegant White |
| Product Size: | 270mm×270mm×54.75mm |
| Product Net Weight: | <2KG |
| Power Supply Mode: | PoE+ Powered |
| Installation: | Ceiling Suspension/Pendant Mount |

#### Microphone Specification

| | |
|---|---|
| Microphone Type: | 24-Element MEMS Microphone Array |
| Microphone Sensitivity: | -38dBv / 94dB SPL @1KHz |
| Microphone Frequency Response: | 20 Hz ~20,000 Hz |
| Dynamic Range: | 84dB (A) |
| Maximum SPL: | 104dB SPL |
| Signal-to-Noise Ratio: | 73.9dBA |
| Device Sensitivity: | -10.22dBFS/Pa |
| Device Frequency Response: | 100 Hz to 15,000 Hz |

#### Ports

| | |
|---|---|
| Network Port: | 1 × 10/100/1000M RJ-45 PoE |
| Phoenix Terminal Inputs: | 4 |
| Phoenix Terminal Outputs: | 2 |
| RESET Button: | 1 |

#### Cascading Capacity

| | |
|---|---|
| Maximum Cascade Limit: | 2 units |

#### Audio Performance

| | |
|---|---|
| Configurable Pickup Zones: | Supported |
| Sound Reinforcement Pickup Radius: | 2m (Recommended) |
| Remote Call Pickup Radius: | 3.5m (Recommended) |
| Sampling Rate: | 48kHz |
| Maximum Background Noise Rejection: | 35dB |
| AI Noise Reduction: | Supported |
| AI Reverberation Suppression: | Supported |
| AI Feedback Cancellation: | Supported |
| Acoustic Echo Cancellation: | Supported |
| Smart Mixing: | Supported |

#### Audio Channels

| | |
|---|---|
| Remote Conference Channel: | 1 |
| Local Sound Reinforcement Channel: | 1 |

#### Other

| | |
|---|---|
| Operating Temperature: | 0°C~40°C |
| Storage Temperature: | -20°C~+70°C |
| Operating/Storage Humidity: | 20%~95% RH |
| Whole Power Consumption: | 12W |

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