



Functional description :

1. Super Far-Field Pickup >10m

Captures voices clearly from distances over 10 meters for wide-area coverage.

2. Customizable Sound Reinforcement Zones

Flexible amplification zone adjustment enables full-room coverage or designated-area sound reinforcement.

3. 32-Microphone Omnidirectional Pickup Array

Equipped with 32 microphones for comprehensive sound capture, delivering more voice details and ensuring natural, realistic local reinforcement and remote communication.

4. Interactive Communication + Sound Reinforcement

Supports multi-microphone combinations for interactive communication, local sound reinforcement, or simultaneous interaction and amplification.

5. Strong External Compatibility

Supports PC IN, AEC IN, AEC OUT, and SPK OUT interfaces, with RJ45 network-based debugging and control support.

6. Advanced Array Microphone Algorithms

Built-in audio processing technologies including Automatic Feedback Control (AFC), Automatic Noise Suppression (ANS), Acoustic Echo Cancellation (AEC), Automatic Gain Control (AGC), Acoustic Reverb Reduction (ARR), steady-state noise reduction, transient noise suppression, and beamforming algorithms, significantly enhancing voice reinforcement and interaction quality.

Technical Parameters :

Category	Specification
Algorithm Specifications	
Supported Algorithms	AFC, ANS, AEC, AGC, ARR
Acoustic Feedback Gain	≥18dB
Noise Reduction Depth	≥30dB
Echo Cancellation Depth	≥90dB
Echo Cancellation Length	≥1s
Reverberation Suppression	≥18dB
Hardware Specifications	
Sampling Rate	48kHz
Frequency Response	75Hz–20kHz (±0.5dB)
THD	≤0.1%
Signal-to-Noise Ratio	≥89dB
Input / Output Level	2.1Vrms
Input / Output Impedance	20kΩ
Power Input	DC12–36V / 2A
Dante / Eth / PoE+ Port	Dante Audio Transmission / Control Network / PoE Power Supply Port
LINE IN	External Audio Input Interface (Typically for PC Audio Source Input)
AEC IN	Echo Reference Signal Input (Remote Audio Input)
AEC OUT	Echo Signal Output (To Terminal Devices)
SPK OUT	Local Audio Output for Standalone Applications
Link SPK OUT	Local Output Port of Master Device During Analog Cascading
Link OUT	Analog Cascade Link Output Port

Category	Specification
Link IN	Analog Cascade Link Input Port
RS485	RS485 Interface + Reserved One-Key Mute Interface
General Specifications	
Power Supply Voltage	12~36V, 0.75A, 50/60Hz
Operating Voltage	DC12V~36V
Dimensions (L × W × H)	350 × 350 × 32 mm
Operating Temperature	-10°C ~ 50°C
Storage Temperature	-20°C ~ 70°C
Color	Silver
Feature	Description
Long-Distance Pickup	Supports ultra-long-distance voice pickup beyond 10 meters for large spaces
AI Noise Reduction Technology	Automatically recognizes human voices while suppressing footsteps, keyboard taps, fan noise, and environmental interference
12 Beam Steering Zones	Supports 12 beamforming zones for flexible and customizable sound reinforcement areas
32-Microphone Array	Built-in 32 omnidirectional microphones provide comprehensive sound capture for clearer local reinforcement and remote collaboration
Ultra-Low Latency Cascading	Supports cascading up to 10 devices for seamless sound pickup and reinforcement across large spaces
Simultaneous Reinforcement + Conferencing	Enables local sound reinforcement and remote interaction simultaneously without switching modes
AFC (Automatic Feedback Cancellation)	Increases local reinforcement gain and prevents acoustic feedback and howling
AEC (Automatic Echo Cancellation)	Eliminates acoustic echo and prevents remote participants from hearing echo leakage
ANS (Automatic Noise Suppression)	Suppresses ambient noise and improves speech intelligibility in noisy environments
AGC (Automatic Gain Control)	Automatic gain increase ≥15dB during conferencing and intelligent suppression during high-volume scenarios
ARR (Automatic Reverberation Reduction)	Reduces reverberation and significantly improves voice clarity
Sound Source Localization	Supports 360° horizontal and 90° vertical positioning divided into 720 zones for highly accurate sound source tracking
Camera Tracking Integration	Real-time sound source coordinate data can be transmitted via Network or RS485 to control PTZ cameras
External Audio Source Support	Supports external audio input from PCs or displays without affecting local reinforcement
Flexible Control Methods	Supports device control via Network or RS485 interface

Recommended Application Scenarios

Smart Classrooms | Conference Rooms | Lecture Halls | Hybrid Learning Spaces | Government Projects | Training Centers | Large Meeting Rooms