



Description

The ceiling array microphone integrates a high-fidelity microphone unit, equipped with a professional audio processor and advanced AI algorithms, and boasts ultra-wide-angle sound pickup capabilities. Through intelligent noise reduction technology, it effectively eliminates environmental interference such as keyboard clicks and air conditioning noise; utilizing dynamic beamforming technology, it can achieve zoned sound pickup for multi-person discussions and automatically track and lock onto the speaker's voice source. Its concealed ceiling installation design maintains a clean and aesthetically pleasing meeting room, providing a clear and natural remote conferencing experience. Suitable for various professional audio scenarios such as corporate meeting rooms and remote conference rooms, it meets the audio acquisition needs of different spaces.

Features

- *It features a built-in array of 129 high-fidelity omnidirectional microphones, providing a pickup radius of up to 4 meters in local sound reinforcement scenarios and up to 8 meters in interactive sound pickup scenarios (remote video conferencing scenarios).
- *The software supports controlling the pickup of designated areas and can simultaneously assign 33 independent areas for pickup; it can effectively pick up sound from any area.
- *Employing a 48kHz ultra-CD-level sampling rate ensures that more sound details are captured, guaranteeing audio accuracy, making the sound more realistic, and avoiding distortion.
- *Equipped with industry-leading audio signal processing algorithms, it integrates a real-time feedback suppression engine, an AI deep learning noise reduction system, a dual-engine architecture of audio processing + AI deep algorithms, and dynamic beamforming technology, which can effectively improve audio quality.
- *It supports automatic gain control, which controls the dynamic range of sound pickup in real time to ensure consistent sound quality when speaking at different distances.
- *It supports automatic noise suppression, which can effectively suppress noise and enhance speech to improve speech clarity in noisy environments.
- *It supports reverb suppression, which can remove reverb and improve speech clarity.
- *It features a mixing matrix function that allows users to freely configure audio channels according to different usage scenarios, creating personalized audio solutions.
- *It features full-duplex echo and feedback paths, independent audio parameter adjustment, a built-in 13-band equalizer, real-time zone adjustment of dual outputs, and simultaneous use for local and remote conferencing.
- *It supports automatic ducking function, and can prioritize wireless microphone output when connected.
- *The module has a built-in intelligent power management module that supports dual power input from the adapter and PoE. The module supports redundancy backup and automatic switching. When the primary power supply is interrupted, the backup power supply can be activated within milliseconds to ensure zero service interruption.
- *It features infrared remote control and supports switching between four modes: mute, amplification only, pickup only, and pickup amplification, to meet the needs of different meeting scenarios.
- *It has a built-in cascading function module, which can realize the cascading of multiple ceiling array microphones.
- *It has a built-in 2-channel Dante module, which can transmit audio over a network.



Ceiling Array Microphone

TS-CA129

Specification

Rj45 network port	3
Phoenix terminal differential input interface	4
Phoenix terminal differential output interface	4
RS-485 interface	One unit supports integration with a central control unit to achieve : mute, volume increment , restore default settings, and beam control functions.
USB (Type C) interface	1
Support audio algorithms	AFC, ANS, AEC, AGC, ARR, AM
Microphone frequency response	75Hz-20kHz
Line frequency response	20Hz~20kHz, ± 0.5 dB
Line signal-to-noise ratio	≥ 100 dB
Distortion	$\leq 0.1\%$
Input impedance (balanced)	20k Ω
Output impedance (balanced)	200 Ω
Maximum input level (balanced)	4dBu
Maximum output level (balanced)	10dBu
Input power	DC 12V-48V/POE power supply (BT protocol)
Power	25W
Operating temperature	0°C~40°C
Storage temperature	-20°C~60°C
Storage humidity	10%~90%RH
Color	Pearl White
Equipment dimensions (length × width × thickness)	600 × 600 × 42.8mm
Packaging dimensions (length × width × thickness)	760 × 670 × 150mm
Equipment net weight	6.03kg
Equipment gross weight	9.45kg