



## Description

The ceiling line array microphone features 129 built-in high-fidelity microphones and an audio processor, making conference room sound management simple and efficient, with an ultra-wide pickup range. Equipped with the low-latency ClearVoice AI algorithm, it automatically blocks distractions like keyboard sounds and air conditioning noise, significantly enhancing meeting focus. Using dynamic beamforming, it intelligently zones audio for discussions and automatically tracks the speaker during presentations. During remote meetings, the sound is as authentic and natural as in-person conversations. The simplified system eliminates the need for cluttered microphones; the device is concealed in the ceiling, making its presence virtually invisible during meetings, ensuring clear and smooth communication.

It can be widely used in meeting places of enterprises, government agencies and classroom teaching scenes of universities

## Features

- 1.The ceiling line array microphone consists of 129 high-fidelity microphones with a compound circular array layout design, providing the necessary sound pickup sampling conditions for the algorithm; the CPU uses a professional audio processor (8 cores, 6T high computing power).
- 2.Equipped with industry-leading audio signal processing algorithms, ClearVoice AI algorithm, real-time feedback suppression engine, adaptive sound field control technology, multimodal AI noise reduction system, spatial sound field modeling technology, traditional audio processing + AI deep algorithm dual-engine architecture, dynamic beamforming, etc., it can effectively improve the quality of voice reinforcement interaction.
- 3.It has an automatic gain function that controls the dynamic range of sound pickup in real time, ensuring consistent sound quality for speeches from far and near.
- 4.33 sound amplification areas and 33 sound pickup areas, the sound amplification distance reaches 4 meters and the sound pickup distance reaches 8 meters, which can effectively pick up the sound at any position in the sound pickup area.
- 5.The mixing matrix function allows you to freely configure audio channels according to different usage scenarios and create personalized audio solutions.
- 6.It has duplex status of echo path and feedback path, independent adjustment of audio parameters, built-in 13-band equalizer, real-time zone adjustment of dual output, and local and remote conference rooms can be held simultaneously.
- 7.It supports automatic ducking function, which can avoid background music when speaking, and gives priority to wireless microphone output when connected.
- 8.Supports infrared remote control, supports four modes: mute, sound amplification only, sound pickup only, and sound pickup amplification, meeting the needs of different meeting scenarios before, during, and after the meeting
- 9.Built-in cascade function module, which can realize the cascading of multiple non-sensing sound reinforcement ceiling array microphones.
- 10.Optional Dante and AES76 modules can support digital audio network transmission.
- 11.Indicator light function: When powered on, red, blue and green light cycle; when working normally, the green light is always on; when the microphone local sound reinforcement is muted, the red light is always on.



# Ceiling line array microphone

## TS-CA129

### Specification

#### I/O interface

RJ45 Ethernet port	3
Phoenix terminal differential input	4
Phoenix terminal differential output	4
Rs485	1
USB (TYPE C)	1
DC12-48V power input	1

### Parameters

Power Input	DC12-48V
POE power supply	BT protocol
Power consumption	25W

### Parameters

Power consumption	Function	Specific parameters
Algorithm specifications	Supported algorithms	AFC, ANS, AEC, AGC, ARR
	Acoustic feedback gain	≥18dB
	Noise reduction	≥30dB
	Echo cancellation amplitude	≥90dB
	Echo cancellation length	≥1s
	Reverberation suppression	≥18dB
	Maximum gain	≥30dB
	AI Noise Reduction	support
	Automatic mixing	support
	Beamforming	support
Microphone specifications	Sound source localization	129
	Number of microphones	-32±2dB
	Sensitivity	70dB
Hardware specifications	Signal-to-noise ratio	75-20KHz
	Frequency Response	48K
	Sampling rate	20Hz~20KHz, ±0.5dB
	Frequency Response	100dB
	Signal-to-noise ratio	≤0.1%
	Distortion	20KΩ
	Input impedance (balanced)	200Ω
	Output impedance (balanced)	4dBu
	Maximum input level (balanced)	10dBu
	Maximum output level (balanced)	support
Other specifications	Dante Audio	support
	Cascade function	support
	485 central control interface	DC 12V-48V/POE power supply (BT protocol)
	Input Power	25W
	power	0°C~40°C
	Operating temperature	-20°C~60°C
	Storage temperature	Pearl White
color		



# Ceiling line array microphone

## TS-CA129

### Dimensions and weight

Equipment size (length x width x thickness)	600 x 600 x 42.8mm
Packaging dimensions (length x width x thickness)	760 x 670 x 150mm
Equipment Net Weight	6.03 kg
Equipment gross weight	9.45kg

### Environmental

Operating temperature	0°C~40°C
Storage temperature	-20°C~60°C
Operating humidity	10%~90%RH
Storage humidity	10%~90%RH
Altitude	Below 5,000 meters