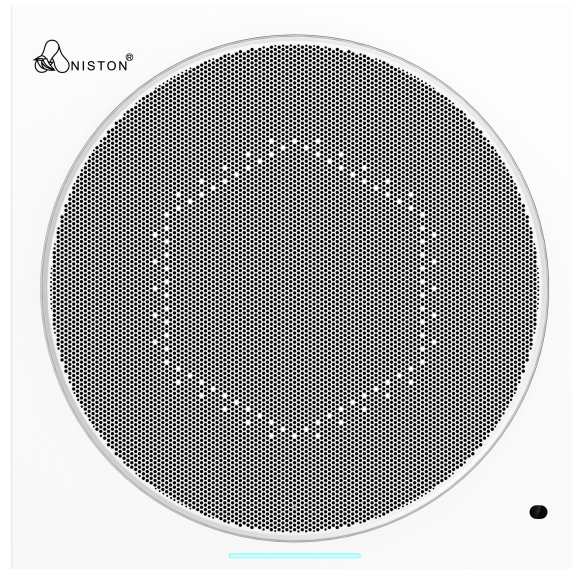


# arrayX

## Ceiling Array Microphone



### DESCRIPTION

arrayX Ceiling microphones represent a pivotal advancement in audio capture technology, specifically engineered for modern conferencing and audiovisual (AV) environments. Designed to discreetly integrate into ceilings, these microphones offer superior audio pickup capabilities without occupying valuable table space or distracting from room aesthetics.

Utilize an array of small, highly sensitive microphone elements strategically positioned within a compact unit. This array enables them to capture sound from all directions with remarkable clarity and precision. By leveraging advanced beamforming and noise cancellation algorithms, ceiling microphones can isolate and enhance the audio signal from intended speakers while effectively suppressing ambient noise and reverberations.

Ideal for large conference rooms, boardrooms, lecture halls, and other collaborative spaces, ceiling microphones ensure that every voice is heard with exceptional fidelity. Their ability to provide seamless integration with audio systems, video conferencing platforms, and room automation technologies makes them indispensable tools for achieving clear, natural-sounding audio in professional settings. As technology evolves, these microphones continue to push the boundaries of audio quality and spatial awareness, facilitating effective communication and collaboration in modern workplaces and educational institutions alike.

### FEATURES

#### Advanced Microphone Array Technology

- Incorporates a 128-microphone array for precise directional beamforming.
- Achieves nearly one thousand beams for comprehensive spatial coverage.
- Utilizes 48kHz, 24-bit high-definition sampling for exceptional audio fidelity.

#### Audio Processing Capabilities

- Low delay mixing output (including ClearSpeakAI processing) with less than 30 milliseconds delay.
- Enhances far-end voice gain by at least 10dB under local amplification, ensuring clear and stable sound transmission.

#### Spatial Awareness and Beamforming

- Refines beam technology to accurately locate speaker spatial orientation.
- Supports up to 36 spatial coordinate settings per unit for precise audio capture and distribution.

#### Automatic Acoustic Feedback Cancellation (AI-AFC)

- Built-in AI-AFC functionality for autonomous feedback management and local amplification.

#### Integration and Collaboration

- Configures spatial coordinates with camera preset positions through dedicated arrayX configuration software.
- Facilitates seamless collaboration in conferencing setups by linking spatial data with visual elements.

#### Versatile Application

- Ideal for large conference rooms, boardrooms, and lecture halls.
- Enhances audio quality and spatial awareness in professional AV environments.

**TECHNICAL SPECIFICATIONS**
**AUDIO**

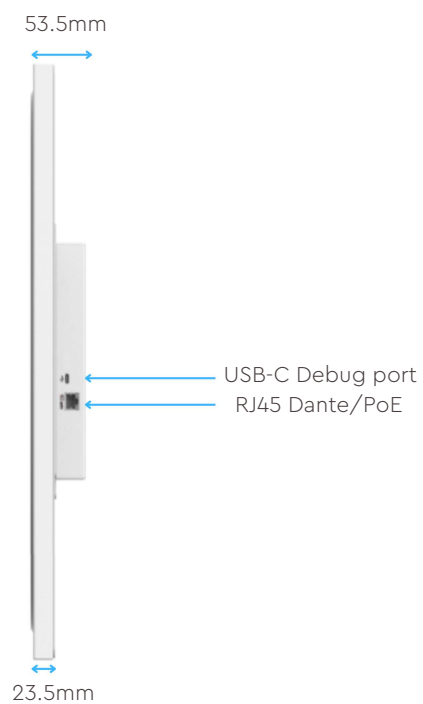
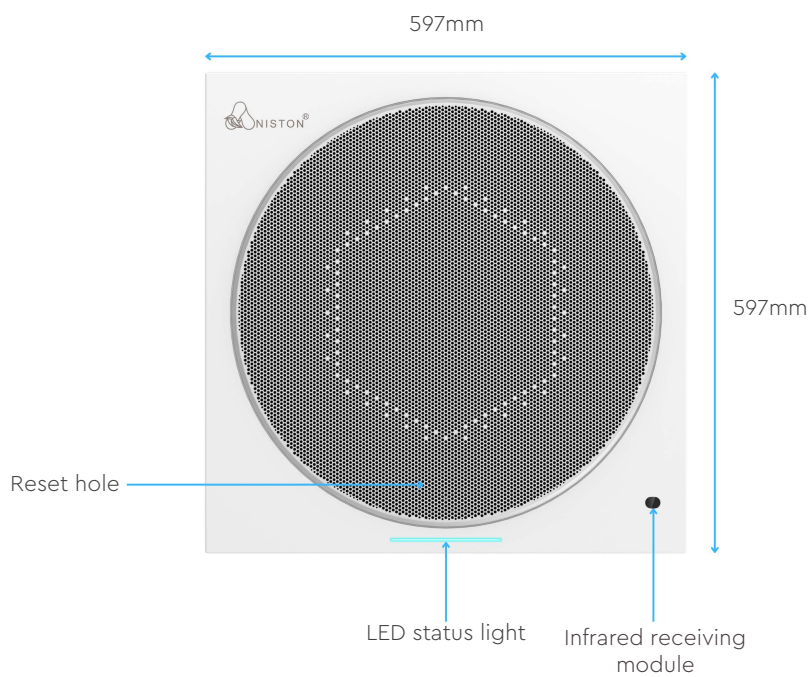
Frequency Response	160Hz – 16kHz (-10dB)
Sampling Rate	48kHz
Bit Depth	1.05 ms (analog in to analog out)
A/D and D/A Converters	24bit
Sample Rate	48 kHz
Audio I/O	1in/2out
Audio Output	1 Dante Audio Transmission (RJ45)
Maximum Input Level of SPL	1 RJ45 Ethernet Port for PoE power supply and data / control communication
Self Noise	12 kΩ @ 1 kHz (with or without phantom power active)
SNR	65dBv/94dB SPL @ 1KHz
Dynamic Range	8m
Signal Processing	PoE
Microphone Type	128 - units MEMS Microphone Array
Pick-up Pattern	Beam pattern
Sensitivity	-38dBv/94dB SPL @ 1 KHz

**NETWORK**

Ethernet / Control	1 RJ45 Ethernet Port for PoE power supply and data / control communication
Cable Requirements	64 × 64, primary/secondary

**GENERAL**

Dimensions	597mm*597mm*53.5mm
Weight	5KG
Power Requirements	PoE (IEEE 802.3af)
Maximum Power Consumption	< -105 dB at +4 dBu 1 kHz input signal
Mount	Ceiling Mount, Wire Mount VESA Mount
Dust Protection	IP5X for dust protection

**DIMENSIONS**

## FREQUENCY RESPONSE

< arrayX Ceiling Microphone

**Add Device**

**Device Properties**

Device Name: arrayX

Delayed start: 0

Device synchronization

**Installation Location**

X (m): 4.93

Y (m): 4.77

Rotation: 0

**Add Pickup Zone**

Voice Call Pickup Zone: 1

**Ceiling Microphone Configuration**

Associated Configuration

Associated Device: --

Connection Status: Not Connected

**Voice Call Pickup Zone Configuration**

Device Mute:

AES Level: Low

EQ: Configuration Details

AGC: Configuration Details

Output Gain: 0 dB

Steady-state Noise Reduction: Medium

AI Noise Reduction: Low

Noise Reduction Model: Configuration Details

**Voice Amplification Pickup Zone Configuration**

Channel Switch:

Apply Now

Restore Default Copy Configuration

Adapt
Add Image
Temporary Storage Configuration
Apply to Device
Save as Preset

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