



## CMA100 Celling Microphone Array

CMA100 is a ceiling-mounted microphone array. Incorporating in-house cutting-edge AI algorithms, it enables precise voice pickup within (dynamic) definable areas (forming a "Acoustic Virtual Wall") and essentially creates a "Voice Barrier" in noisy environments, while delivering powerful features such as Adaptive Noise Suppression (ANS), Acoustic Echo Cancellation (AEC), De-Reverberation (De-Rev), and Automatic Gain Control (AGC). Designed specifically for overhead installation in meeting rooms, the CMA100 delivers crisp, noise-free audio with streamlined deployment—requiring only one unit and a single cable connection.

Furthermore, the CMA100 supports expansion with two ceiling speakers or two wall-mounted speakers. It also enables daisy-chaining with up to 6 units, addressing the audio requirements of extra-large conference rooms.



**Massive  
Microphone Array**



**Acoustic Fence**



**Instant Voice Lift  
( $<18$  ms)**



**In-House AI Algorithms**



**Definable Voice  
Pickup Area**



**Acoustic Echo  
Cancellation**



**Adaptive Noise  
Suppression (ANS)**



**Auto Howling  
Suppression**



**De-Reverberation  
(De-Rev)**



**Flexible Installation**



**Multiple Connection  
Options**



**Software  
Compatibility**

## Product highlights



### Massive Microphone Array

Integrated with a 43-microphone array in a mathematical pattern, it adopts a mesh-type pickup area design. This configuration optimizes audio capture efficiency, enabling full-range, high-fidelity audio acquisition within conference spaces while bolstering the microphone's stability and performance across diverse environments.



### In-House AI Algorithms

CMA100 is incorporated with AI algorithms, enabling Adaptive Noise Suppression, De-Reverberation, Acoustic Echo Cancellation, Howling Suppression, and definable pickup area/Acoustic Virtual Wall functions—thereby delivering clear and stable sound reinforcement.



### Instant Voice Lift Technology

This system set users free from handheld or wearable microphones, offering a completely hands-free experience. Speakers enjoy full freedom of movement within the active zone, while advanced AI steering beamforming algorithms ensure consistent audio capture and amplification, maintaining optimal clarity regardless of the speaker's position or orientation.



### Supports Tandem

With flexible cascading, CMA100 can be Daisy-Chained with other CMA100 via an WeDolnnov Daisy-Chain cable for larger meeting space needs.



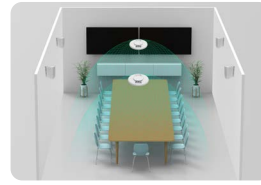
### All-in-One Design

A comprehensive audio solution that seamlessly integrates CMA100 and two high-fidelity speakers. Professionally calibrated, it delivers exceptional audio performance as a fully integrated package—truly enabling a hassle-free experience.



### Elegant Design

CMA100 boasts a pristine white finish, its simplicity exuding understated elegance. Shaped like a delicate small disc, it hangs unobtrusively from the ceiling.



### Definable Voice Pickup Area

CMA100 covers a definable pickup wide area, forming a "Acoustic Virtual Wall", ensuring effective audio pickup within the area and minimizing voice loss during speakers' movement.



### Flexible Installation

With a sleek design, CMA100 facilitates ceiling mounting, surface mounting, suspension, etc. Easy to maintain, ideal for modern minimalist styles.



### Multiple Connection Options

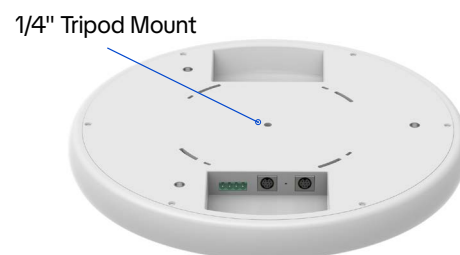
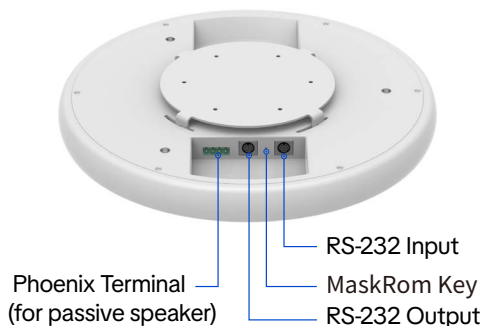
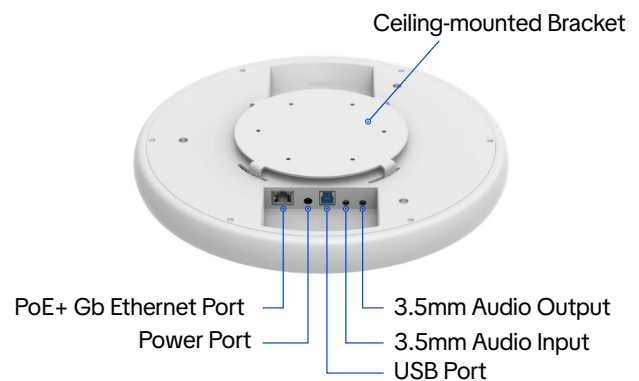
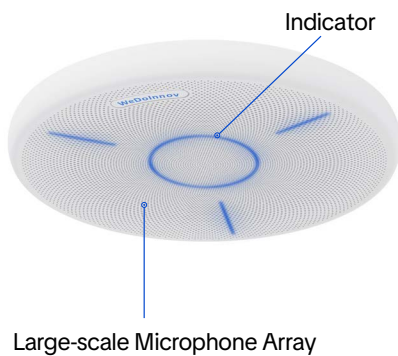
CMA100 offers multiple connection interfaces (USB, PoE+, Dante (Optional), 3.5mm, Bluetooth), providing versatility and convenience for easy integration with computers or other USB-compatible devices.



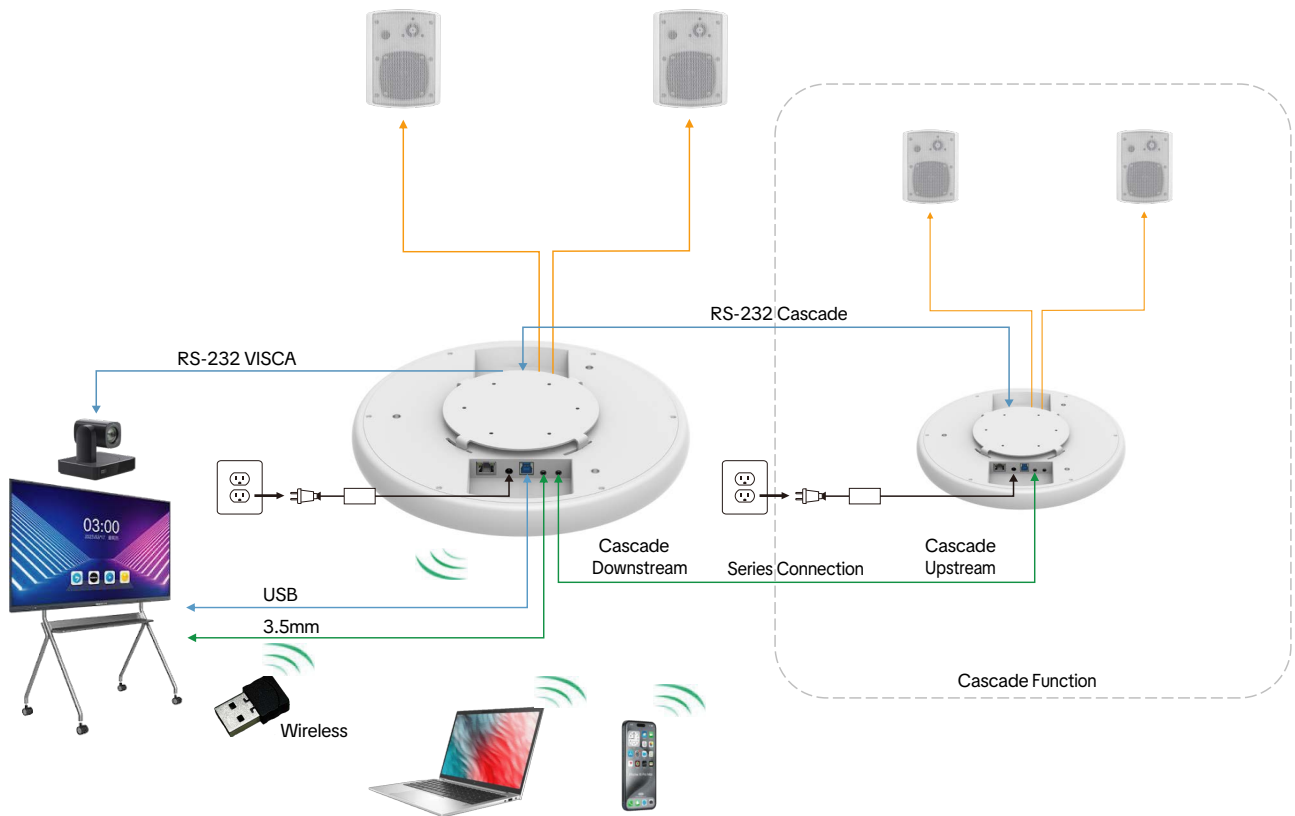
### Software Compatibility

It is compatible with most video conferencing and presentation software, such as Microsoft Teams, Zoom, Webex, Google Meet, Tencent Meeting, DingTalk, etc.

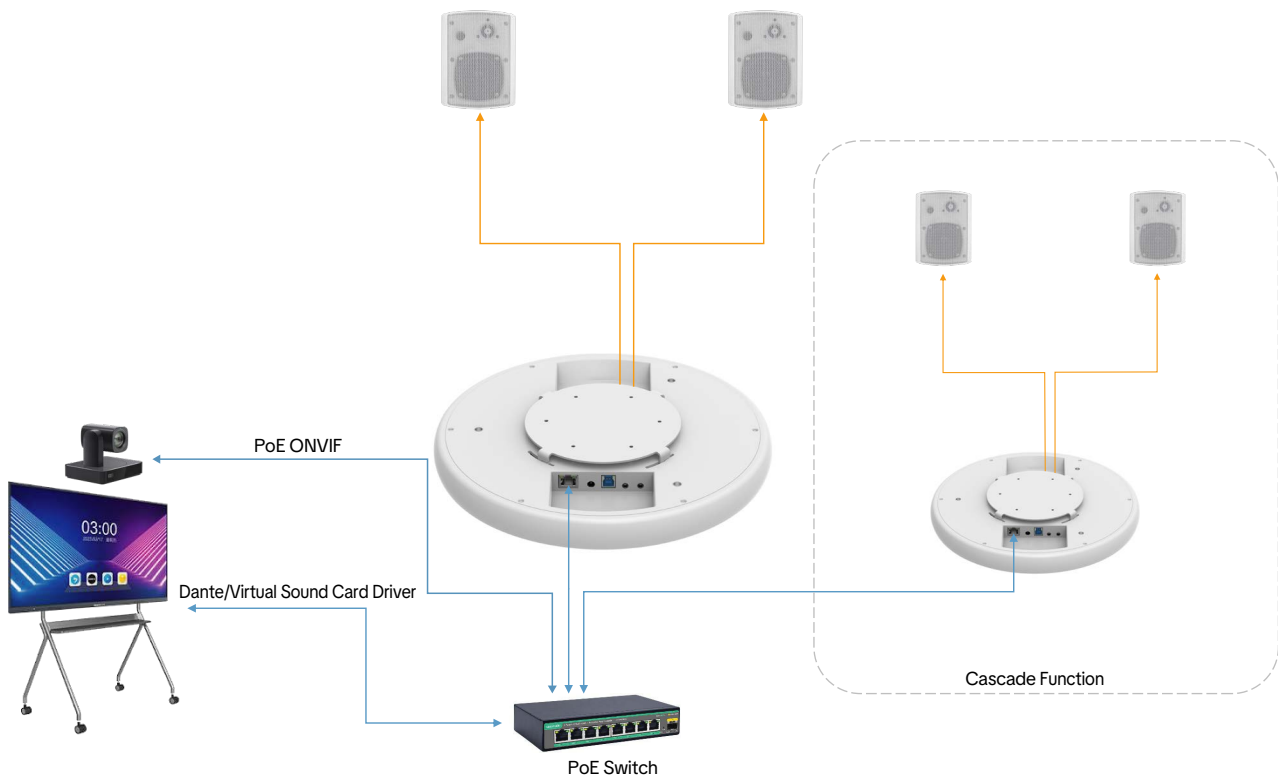
## Product View



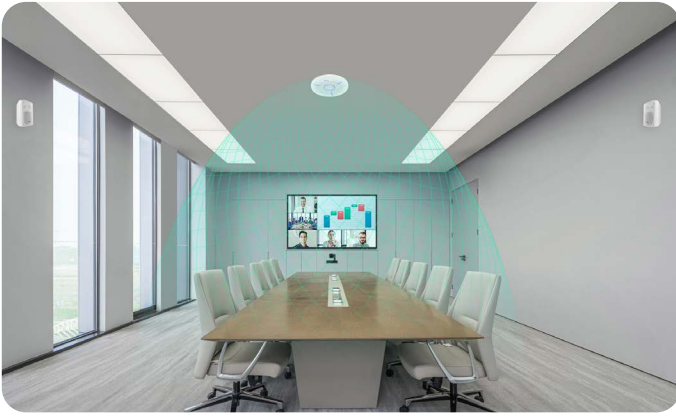
## Connection Diagram (for USB/BT/3.5mm audio jack)



## Connection Diagram (PoE+)



## Application Scenarios



Small and Medium-Sized Meeting Rooms



Medium and Large-Sized Meeting Rooms



Large Meeting Rooms



Classrooms

## Mounting Types



Pole Mounting



Ceiling-Mounted



Wire Rope Suspension



# AI Director on Voice Solution



P10+CMA100 Cascade



P20+CMA100 Cascade



## Specifications

- Microphone:** Massive Microphone Array
- Audio:** AI Audio Algorithms (Adaptive Noise Suppression, De-reverberation, Acoustic Echo Cancellation, Auto Howling Suppression, Definable Pickup Area/Acoustic Virtual Wall)
- Remote Control Functions:** Microphone Mute/unmute, Pickup Zone, Speaker Volume +/-, Meeting/Speech Mode
- CMA100 Dimensions:** 300 mm \* 300 mm \* 42 mm
- CMA100 Weight:** 1130g
- Installation Method:** Ceiling Mounting, Surface Mounting, Suspension
- Speaker Power(optional):** 15W x2
- Speaker Size(optional):** 170 mm \*150 mm \* 210 mm
- Application Scenarios:** Video Call, Full-duplex Voice Call, Local Sound Amplification

- Ports:**
- 1 X PoE+ Gb Ethernet Port
  - 1 X Power Port
  - 1 X USB Port
  - 1 X 3.5mm Audio Output
  - 1 X 3.5mm Audio Input
  - 1 X Phoenix Terminal
  - 1 X RS-232 Output
  - 1 X Maskrom Key
  - 1 X RS-232 Input