



# infobit iSpeaker CM710 Digital Ceiling Microphone Array User Manual

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## Introduction

The iSpeaker CM710 is a digital array microphone with embedded architecture, beamforming, professional digital audio processing, 8 meters long distance voice pickup, Intelligent voicetracking and full duplex communication.

The iSpeaker CM710 adopts anti-reverberation technology, which can clearly remove the reverberation of environmental noise, and provide you with excellent voice pickup at a 8m long distance. The CM710 digital array microphone available in ceiling mounting, wall-mounted and desktop use in audio and video conferencing, education classrooms, supporting daisy-chaining via PoE network cables.

With a coverage of up to 200 m<sup>2</sup>, there's still no better solution for larger meeting rooms and lecture or collaboration spaces than our industry-leading iSpeaker CM710 ceiling microphone.

The CM710 is a real problem-solver that allows cable free tables and flexible furniture arrangement, while benefits like higher audio quality, efficient setup, simple management and control, a sleek design, and a sustainable impact.

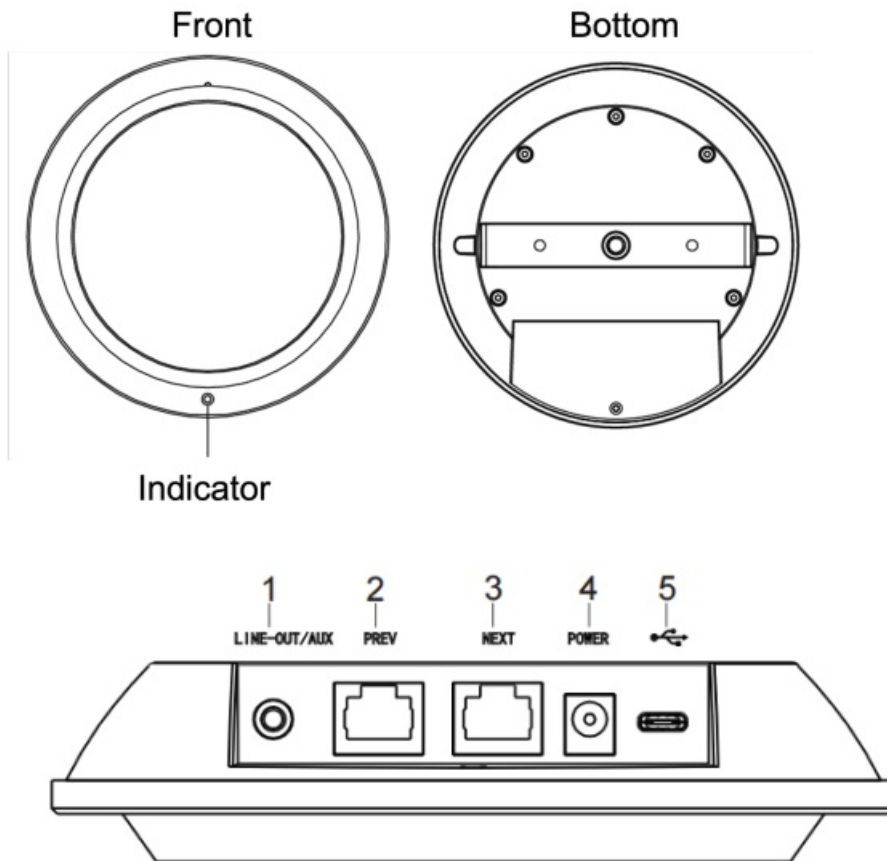
## Features

- Digital array microphone, 8 meters long-distance crystal-clear voice pickup
- Innovative daisy-chaining, supporting up to 4 units cascaded.
- Type-C interface, plug and play.
- PoE interfaces, support long-distance power supply and data transmission.
- Intelligent Voice Tracking
- Intelligent noise reduction, echo cancellation, reverberation suppression and full duplex communication
- Adaptive beamforming technology provides adaptability to different sound environments. With speech reinforcement, the microphone minimizes interference and keeps speech clear all the time.
- Supports dual-mode digital or analog audio outputs.
- Multiple Audio Algorithms, High Quality of Sound
- Simply Installation, Plug and Play

- Using standard USB (TYPE-C) and 3.5 mm audio interface, zero configuration design, plug and play.
- Available for ceiling mounting, wall mounting and desktop use.
- Made of aluminum alloy, exquisite and durable design
- Ceiling, wall mounting or on desktop, true hands-free lecture and presentation solution.
- Compact appearance, easy to install and maintain.

## Interfaces

### iSpeaker CM710 microphone



1. LINE-OUT/AUX: Local upstream audio/PC downstream audio (Not working simultaneously. )
2. PREV: Connect the previous daisy-chaining microphone (with PoE power supply)
3. NEXT: Connect the next daisy-chaining microphone (with PoE power supply) or connect to the CM710-Hub/CM710-Mixer.
4. POWER: DC 12V-1A Power IN.
5. USB: USB power supply + audio transmission. Connect to PC.

### iSpeaker CM710-Hub

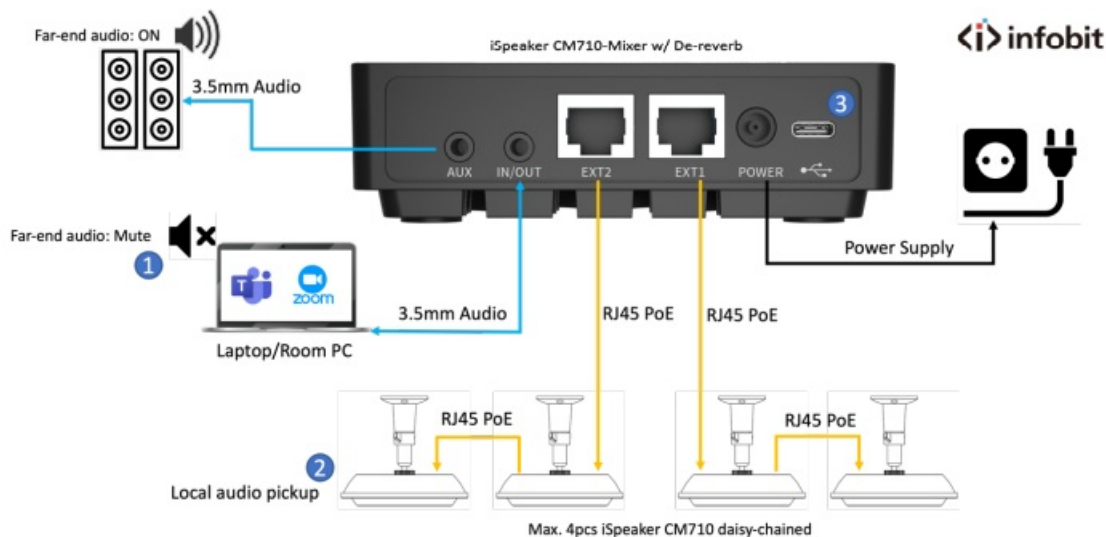


1. OUT: Audio output
2. OUT: Audio Output
3. EXT: Connect to iSpeaker CM710 microphone, PoE.
4. USB Host: Connect to PC or conference terminal.
5. Power: Power supply DC12V 1A.

#### **iSpeaker CM710-Mixer**

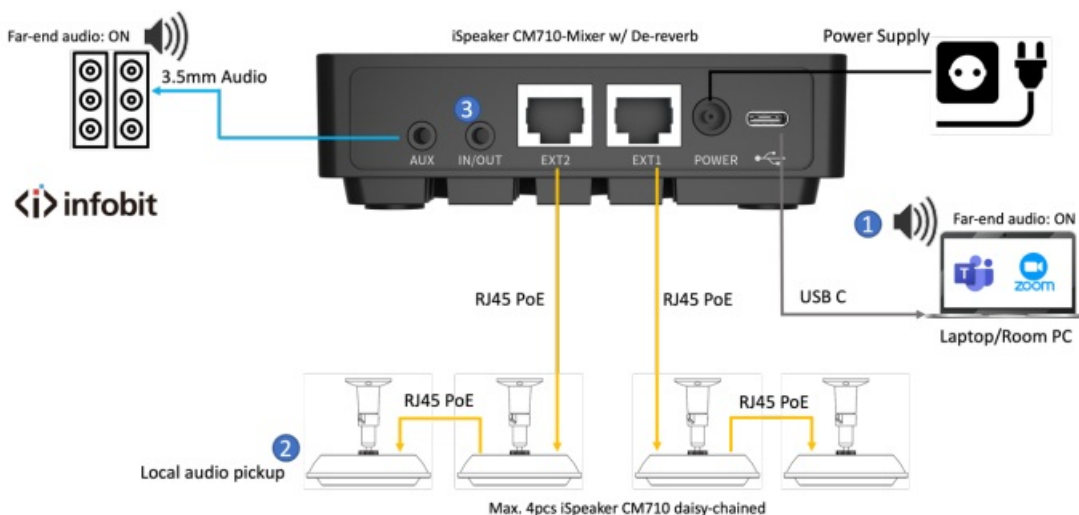


1. AUX: Audio output of far-end signal
2. IN/OUT: Connect to PC. Does not work with the USB C port simultaneously.
3. EXT2: Connect to iSpeaker CM710 microphone. Extend by PoE up to 10m.
4. EXT1: Connect to iSpeaker CM710 microphone. Extend by PoE up to 10m.
5. Power: Power supply, DC12V 2A
6. USB C: Connect to Host PC.



- 1 Mute the PC speaker: to avoid sound reverberation
- 2 To use the ceiling microphones to pickup the local sound, the user need to select the CM710 in VC software, don't select PC mic.
- 3 By this way connection through 3.5mm IN/OUT, the USB C is unnecessary to be connected. The 3.5mm and USB C don't work simultaneously.

### By 3.5mm connection



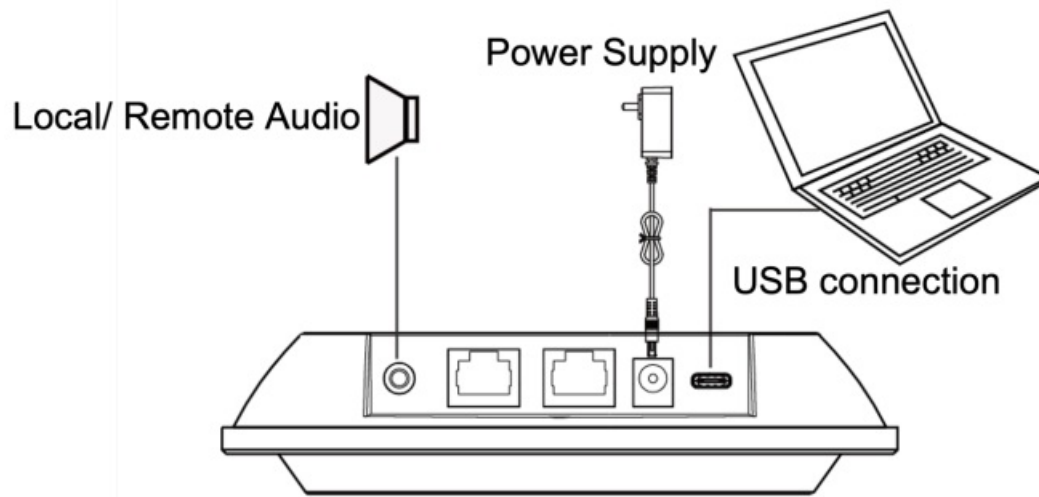
- 1 The PC also can output the far-end audio since the CM710-Mixer has de-reverberation processing.
- 2 To use the ceiling microphones to pickup the local sound, the user needs to select the CM710 in VC software, don't select PC mic.
- 3 By this way connection through USB C, the 3.5mm is unnecessary to be connected. The 3.5mm and USB C don't work simultaneously.

### By USB C connection

## Connection

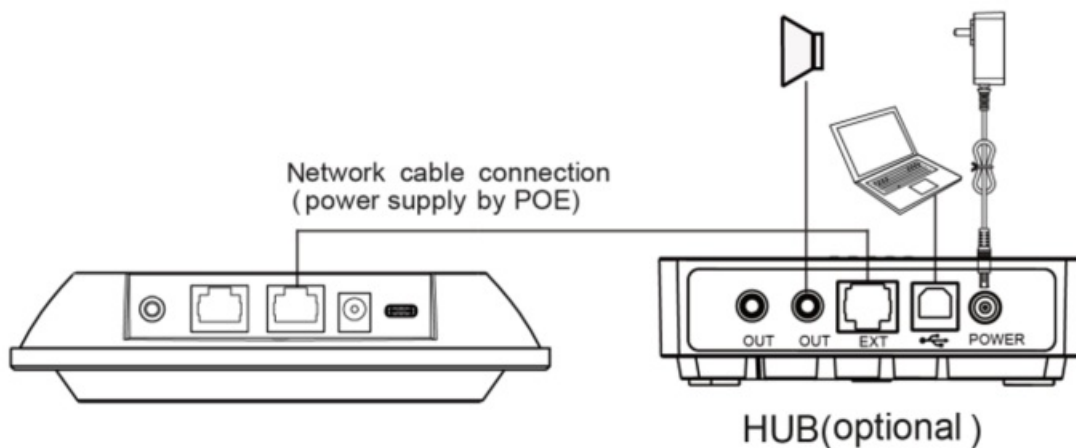
### Standalone mode (short distance)

If the user needs to place the iSpeaker CM710 at desktop or short distance to the PC, a single unit iSpeaker CM710 can be connected to the PC directly through single USB cable. Normally the USB cable is only at 1 to 3 meters, if for long distance, we recommend using our iCable series USB extension cables which support maximum 40 meters. If the user needs to mount the microphone in the ceiling at a far distance, then the iSpeaker CM710-Hub or CM710-Mixer will be needed.



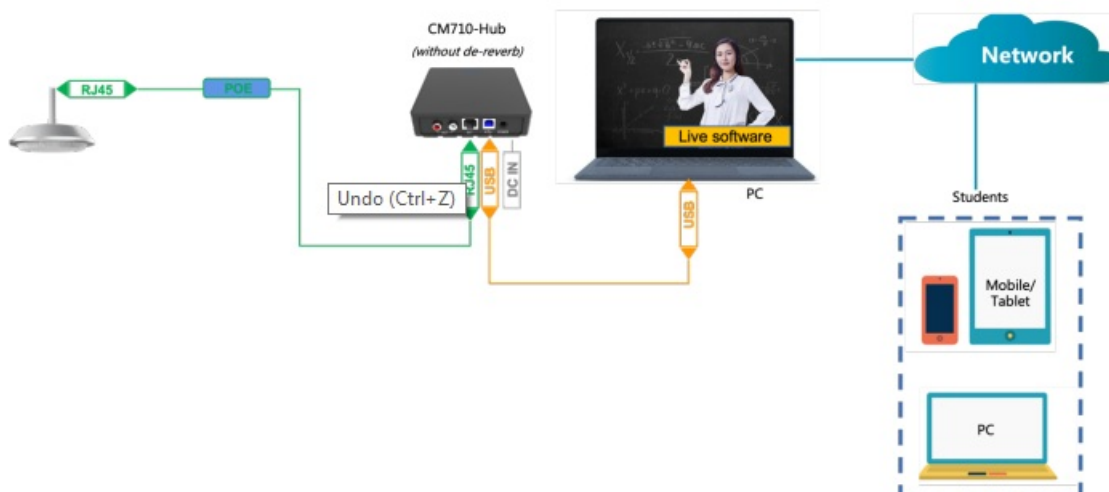
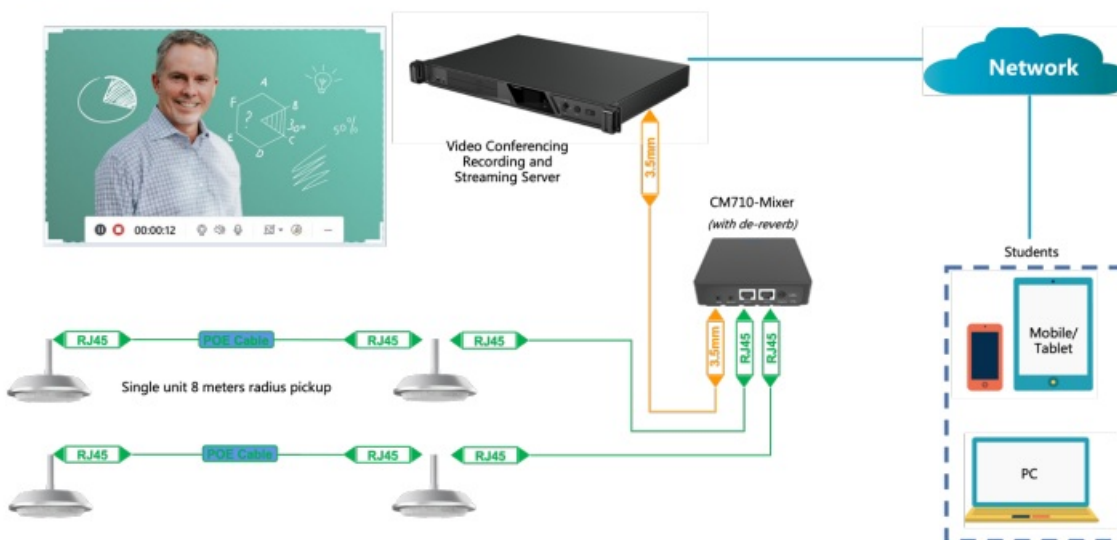
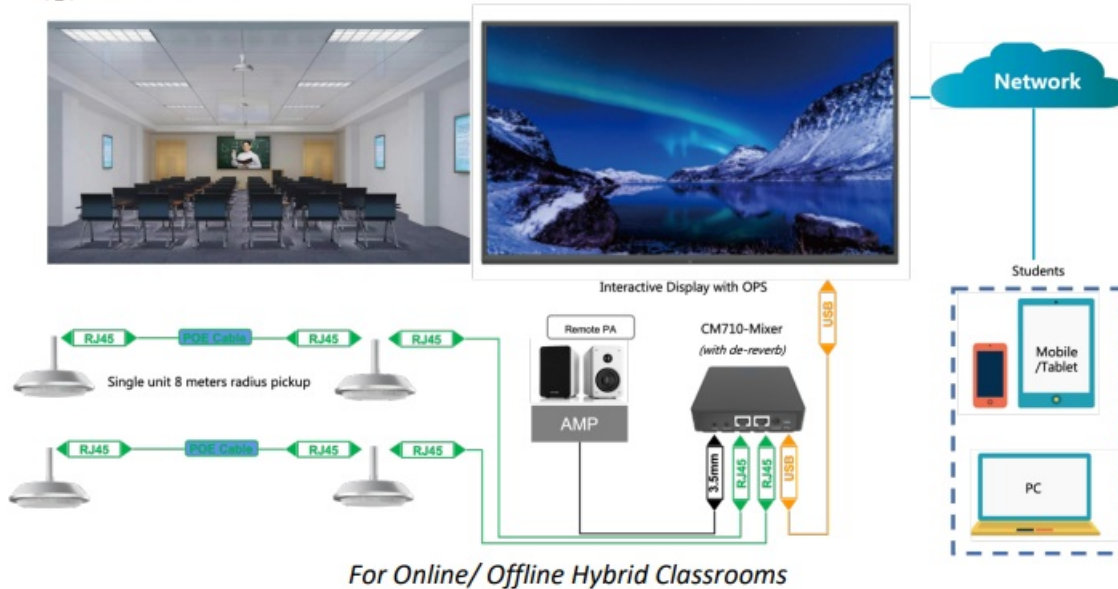
#### Standalone mode (long distance with CM710-Hub)

The iSpeaker CM710-Hub is used to connect between the microphone and the PC by extending the distance up to 10 meters via network cable which is much easier for installation.



#### Daisy-chain mode (short or long distance with CM710-Mixer)

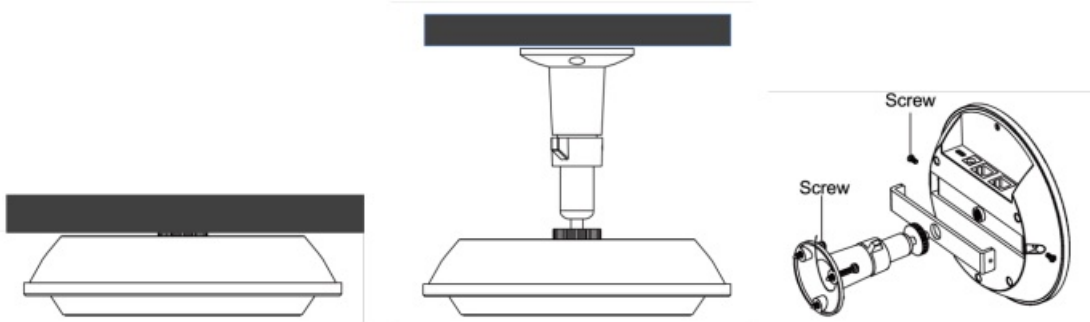
The iSpeaker CM710-Mixer is used to connect between the microphone and the PC by extending the distance up to 10 meters via network cable which is much easier for installation, and it support De-reverb function to eliminate unwanted noise or background sound from AC/ Fan or other environmental sounds.



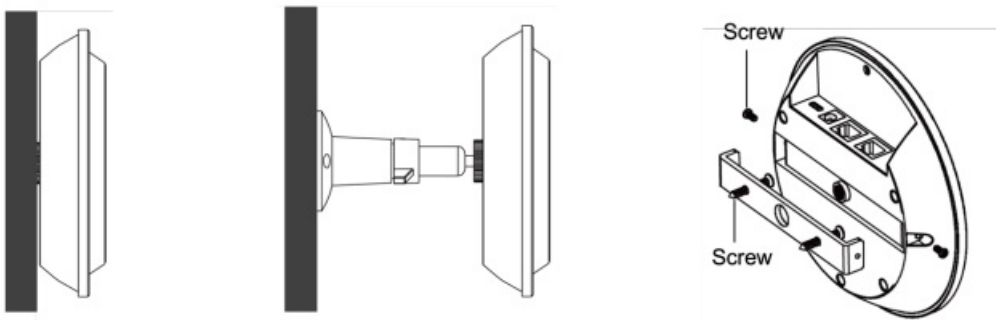
## Mounting

*Note: When installing, it is necessary to drill holes in the wall, insert the expansion bolts into holes, and finally fix them with screws. The microphone can be mounted to the ceiling or wall with or without the rotatable mount bracket (included in the package by default).*

### Ceiling Mounting



### Wall Mounting



## Spec


<b>Model</b>	<b>iSpeaker CM710</b>
<b>Name</b>	<b>Daisy-chaining Digital Ceiling Microphone Array</b>
<b>Digital Array Microphone (Model: iSpeaker CM710)</b>	
Microphone Type	Omnidirectional Microphone
Built-in Mic	Built-in 10 Microphone Array
Pickup Distance	8 Meters
Sensitivity	-26 dBFS
Signal Noise to Ratio	>95 dB(A)
Frequency Response	20Hz – 16kHz

Sampling Rate	32kHz Broadband Sampling
USB Protocol	Support UAC
3A Algorithm	AEC/ANS/AGC
Daisy Chain	Max. 4 via RJ45
Interface	1x DC12V, 2x RJ45, 1x 3.5mm, 1x Type-C
<b>Digital Array Microphone HUB (Model: CM710-Hub)</b>	
Audio	Audio Long-distance Transmission, Audio Data Communication
Interface	2x 3.5mm OUT, 1x RJ45
USB Interface	1x USB-B
Power Supply	DC12V
Powered By	POE
<b>Digital Array Microphone Mixer (Model: CM710-Mixer)</b>	
Audio	Audio Long-distance Transmission, Audio Data Communication
Interface	2x 3.5mm (1x AUX OUT; 1x IN/OUT), 2x RJ45 PoE, 1x Power, 1x USB C
USB Interface	1x USB-C
Power Supply	DC12V
Powered By	PoE

[www.infobitav.com](http://www.infobitav.com)



**Documents / Resources**

 <p>Infobit iSpeaker CM710 Digital Ceiling Microphone Array</p>	<p><a href="#">infobit iSpeaker CM710 Digital Ceiling Microphone Array</a> [pdf] User Manual iSpeaker CM710, iSpeaker CM710 Digital Ceiling Microphone Array, Digital Ceiling Microphone Array, Ceiling Microphone Array, Microphone Array</p>
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References

- [infobit AV- 4K Matrix Switchers, Wireless Presentation, Active Optical Cable and Conference Camera- Meeting Room Solutions](#)