(English Version)

Please read this Manual before setting up CM alpha and stick to its requirements strictly for Safety reason. Suggest you save this manual for further inquiries reference.

1 Packing List

Item	Quantity
Digital Array Microphone	1
USB Cable	1
3.5mm Audio Cable	1
Quick Start Guide	1

2 Appearance and Interface

No.	Name	Function
1	AEC-REF	Signal input interface, input remote audio signal.
2	SPK-OUT	Audio signal output interface, output to the speaker.
3	AEC-OUT	Signal output interface, output to remote equipment.
4	USB	USB interface is used to connect host and charge the microphone.

3 Product Feature

Digital Array Microphone, Long Distance Voice Pickup

Digital array microphone, 8-meter distance voice pickup. A hands-freelecture and presentation solution.

Intelligent Voice Tracking

Adaptive blind beamforming technology provides adaptability to differentsound environments. With speech reinforcement, the microphone minimizes interference and keeps speech clear.

Multiple Audio Algorithms, High Quality of Sound

Using proprietary technologies including intelligent noise reduction, echocancellation and reverberation suppression to ensure clear sound qualityand comfortable communication. Less requirements of the classroom decoration. Supports full duplex communication.

Simply Installation, Plug and Play

Using standard USB2.0 and 3.5 mm audio interface, zero configuration design, plug and play. Simple system and compact appearance, easy toinstall and maintain. Supports dual-mode (digital, analog) output.
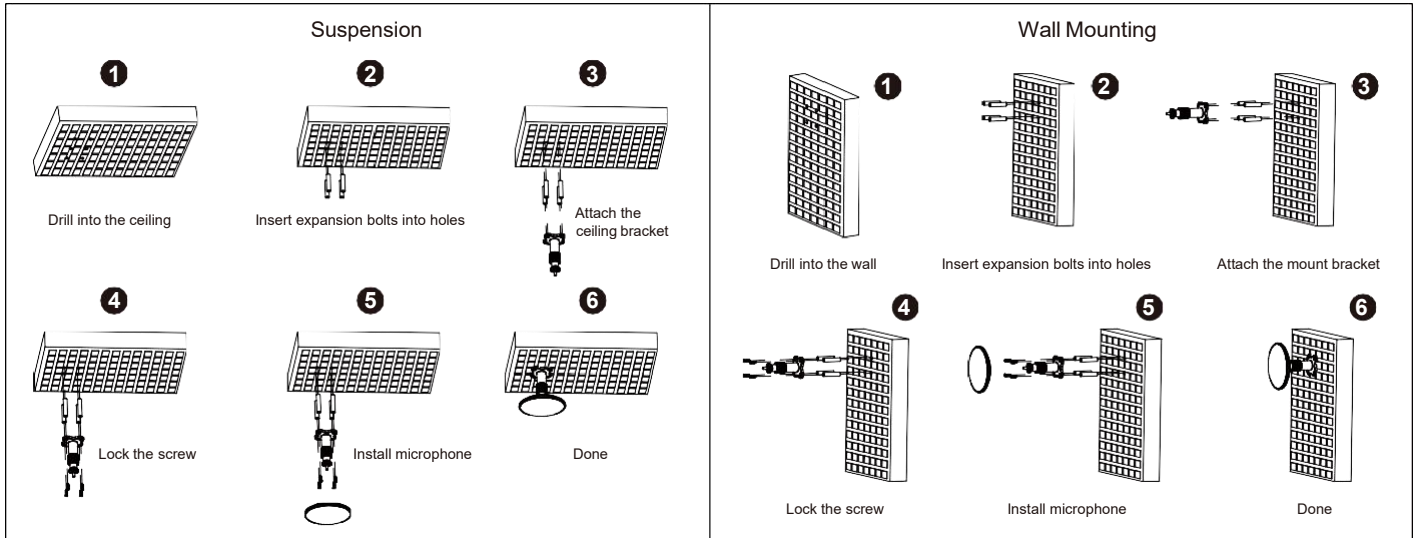
Available in Two Colors, Blends into Different Environments

It adopts the technology of hot laminating and wrapping cloth. With naturalvisual effect, white design adapts to white walls of classrooms, and black design blends into modern conference rooms.

4 Product Specification

Audio Parameters	
Microphone Type	Digital Array Microphone
Array Microphone	Built-in 7 mics to form a circular array microphone
Sensitivity	-26 dBFS
Signal Noise to Ratio	64 dB(A)
Frequency Response	20Hz - 16kHz
Pickup Range	8m
USB Protocol	Support UAC
Automatic Echo Cancellation (AEC)	Support
Automatic Noise Suppression (ANS)	Support
Automatic Gain Control (AGC)	Support
Hardware Interface	
Audio Input	1 x 3.5mm line in
Audio Output	2 x 3.5mm line out
USB Interface	1 x USB audio interface
General Specification	
Power Input	USB 5V
Dimensions	Φ 130mm x H 33mm

5 Product Installation

Suspension	Wall Mounting

Suspension

❶ Drill into the ceiling

❷ Insert expansion bolts into holes

❸ Attach the ceiling bracket

❹ Lock the screw

❺ Install microphone

❻ Done

Wall Mounting

❶ Drill into the wall

❷ Insert expansion bolts into holes

❸ Attach the mount bracket

❹ Lock the screw

❺ Install microphone

❻ Done

6 Network Application

6.1 Analog Connection (3.5mm Interface)

Local Classroom

Microphone

Power

SPK-OUT

AEC-OUT
Local to Remote

AEC-REF
Remote to Local

Interactive Terminal Recording Host

Network

Remote Classroom

Microphone

Power

SPK-OUT

AEC-OUT
Local to Remote

AEC-REF
Remote to Local

Interactive Terminal Recording Host
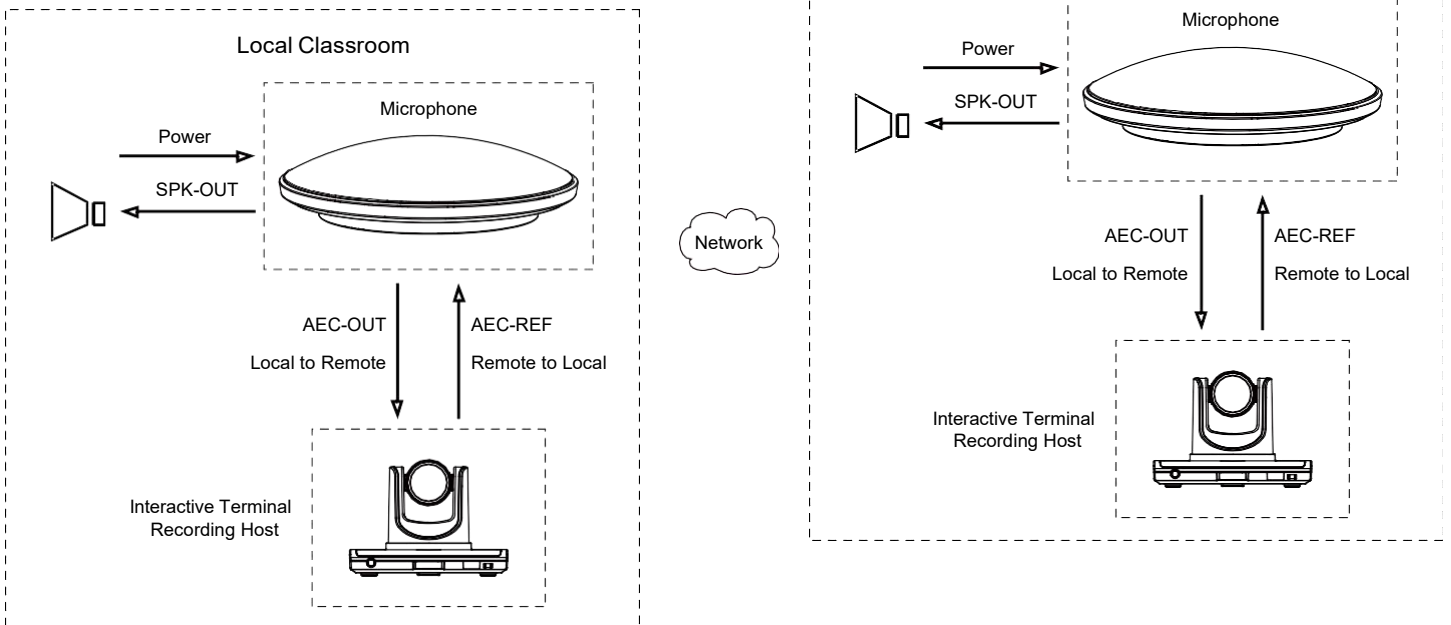
6.2 Digital Connection (USB Interface)

Network

Local Classroom

Microphone

SPK-OUT
Remote Sound Reinforcement

USB (Power + Sound)
Local to Remote
Remote to Local
USB

Remote Classroom

Microphone

USB (Power + Sound)
Local to Remote
Remote to Local
USB

SPK-OUT
Remote Sound Reinforcement