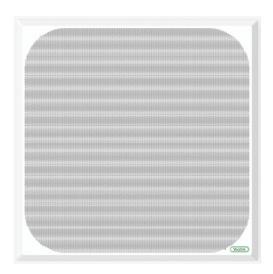


# CM50 Datasheet

Yealink CM50 is an innovative Dante ceiling microphone system that utilizes beamforming voice pickup technology. With 127 microphone units, it effortlessly covers a 5-meter radius pickup range and supports 8 independent customizable pickup zones. CM50 features prioritized pickup and acoustic fence functions to accurately capture sound within customized areas, effectively reducing unwanted environmental noise interference. Equipped with AI-based sound optimization technology, CM50 intelligently eliminates noise and reverberation, ensuring a true and immersive auditory experience. With AI-driven dynamic feedback suppression\* and highly directional pickup beams, CM50 optimizes the performance of sound reinforcement & voice lift system\* while simplifying deployment. It also supports the Dante protocol, offering expandability for the CM50 system. With unparalleled audio fidelity and intelligent sound optimization, Yealink CM50 provides an unmatched experience for meetings and events.



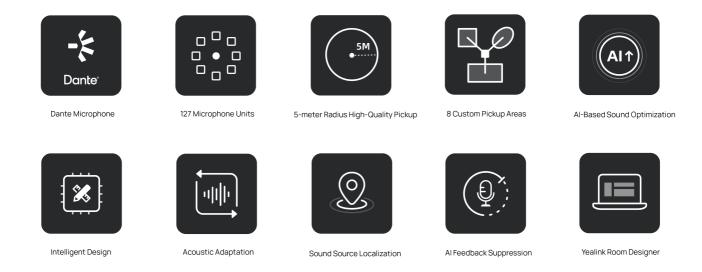


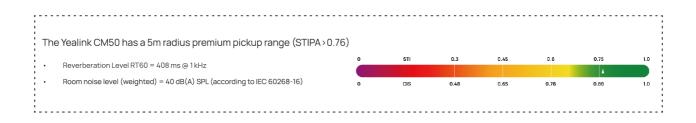


\*Feature is going to support in 2025 Q2.

#### **Features**







### Ultra Coverage, High Fidelity

Yealink CM50 microphone features 127 omnidirectional pickup units and beamforming technology for fast and accurate sound capture. It supports up to 8 customizable pickup zones, reducing noise and delivering pure sound. Experience enhanced convenience and exceptional audio in complex meeting spaces with CM50!

#### **Al Voice Optimization**

Yealink's AI sound optimization model, trained in-house, combines intelligent noise reduction and echo cancellation algorithms for an exceptional audio experience. Yealink's AI sound optimization algorithm eliminates background noise and minimizes the impact of echo, ensuring your voice remains clear and sharp.

#### **Intelligent Design and Deployment**

Yealink's exclusive intelligent design and deployment feature, coupled with Room Designer software, offers a complete meeting room design experience with just basic room data. Yealink's acoustic environment adaptation solution provides algorithmic customization and tuning based on the room's acoustic environment, reducing deployment costs and improving efficiency. Achieve efficient and precise audio solution deployment with Yealink! Sound Reinforcement

Yealink CM50 supports the setup of sound reinforcement systems. Define areas as sound reinforcement zones without the need for speakers to wear or hold microphones, effortlessly achieving seamless and natural sound amplification. With a built-in AI feedback suppression algorithm, CM50 dynamically suppresses actual howling levels, reducing deployment complexity and tuning challenges in sound reinforcement scenarios.

**Deep Integration with Microsoft Teams** 



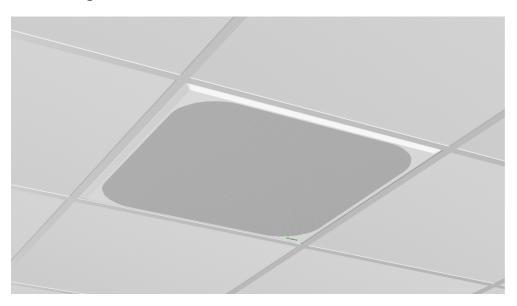
Deeply integrated with Microsoft Teams, Yealink offers convenient features like automatic EQ switching and mute synchronization. Precise CM50 sound source localization\* ensures accurate camera tracking, making Yealink the best choice for your AV meetings. Combined with Yealink's native Teams room solution MVC, the CM50 solution provides an all-in-one, full Dante audio experience.

### Easy deployment

Yealink CM50 requires only one PoE+ cable for power and data transmission. We offer the quickest deployment solution by directly replacing ceiling tiles, eliminating the need for drilling. It fits mainstream ceiling sizes of 60 \* 60cm or 2 \* 2ft. Optional accessories for suspension or adhesive ceiling mounting are included in the package.

## **Hardware Deployment**

### In the Ceiling

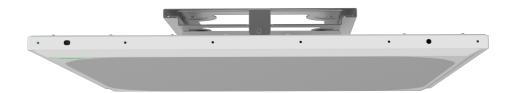


### **Suspend from the Ceiling**



### On the Ceiling





# **Specifications**

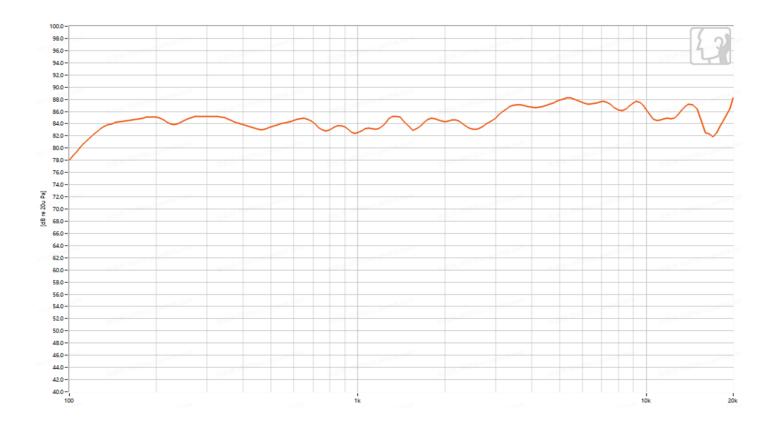
Acoustic Parameters	Frequency response range: 120-20KHz
	Sensitivity: 0 dBV/Pa 94dBSPL@1kHZ
	Signal-to-noise ratio: 86dB @1kHz, 94dBSPL A-Weighted
	Maximum sound pressure level: 122dB at < 1% THD
	Dynamic range: 86dB @<1% THD
Dante Audio	Output channels: 8+2 Dante output channels
	Input channels: 2 Dante input channels
	- 1 Dante input for AEC reference
	- 1 Dante input for AFC reference
	Sampling rate: 48K
	Bit depth: 24bit



Product Design	Microphone array: 127 MENS array
	Acoustic technology: Beamforming
	Product dimensions: L592*W592*T56mm
	Product weight: 5.15kg (net weight, excluding accessories)
	Product color: Apple White
	Product Material: SGCC/SPCC/AL5052
	Certification: Plenum Rated UL 2043 (suitable for air handling spaces)
	Physical interface:
	- 1* RJ-45 interface
	- 1* 3-pin Phoenix connectors for analog output
Operating Information	Power requirements: IEEE PoE+ (IEEE 802.3at class 4)
	Power consumption: Rated power 19.3 W
	Typical power 17 W
	Operating temperature: 0-40°C
	Operating humidity: 0-93%RH
Logistics Information	<ul> <li>Giftbox dimensions (L*W*H): 722 * 687 * 110 mm</li> </ul>
	Weight:
	- N.W/CTN: 7.750 kg
	- G.W/CTN: 9.790 kg
	Storage temperature: -30~70°C

# **Frequency Response Curve**

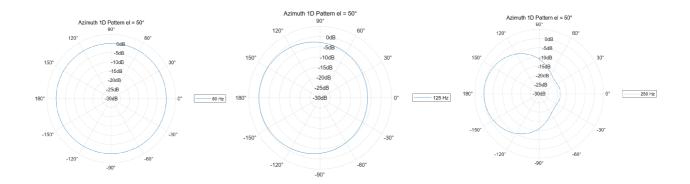


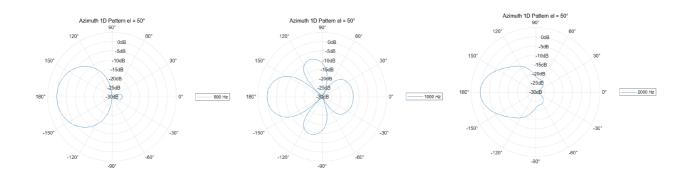


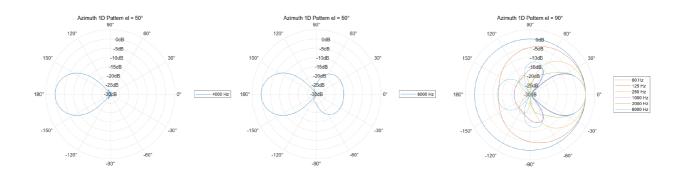
# **Polarity Diagram**

The shape of the lobe is: medium





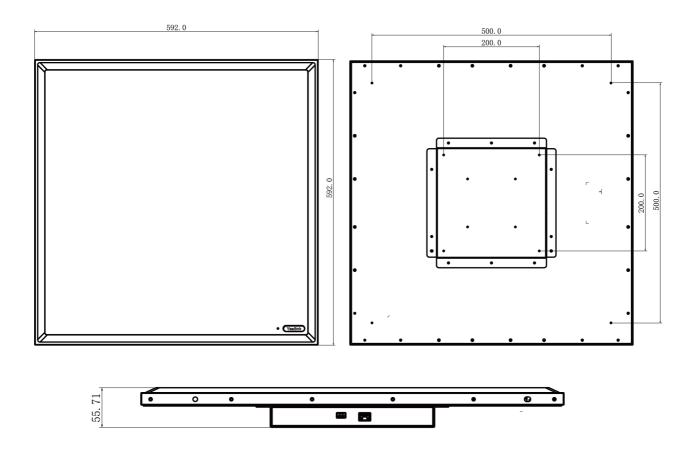




## **Dimensions**

Unit: mm





## Interface



Ethernet RJ-45 PoE+ Dante interface used for audio transmission and network control

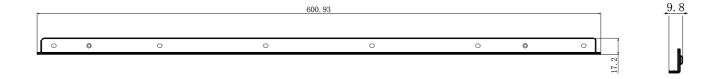


Analog Out 3-pin Phoenix connectors for analog audio output

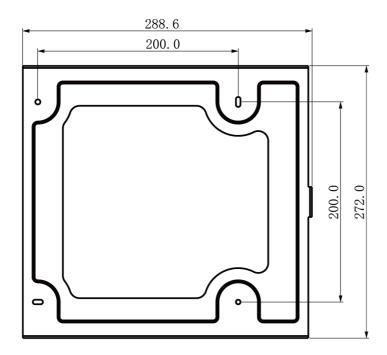
# **Accessory Dimensions**

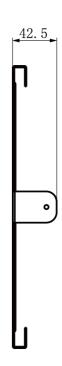
Unit: mm

## **Angle Bracket**



## **Mounting Bracket A**





## **Mounting Bracket B**



