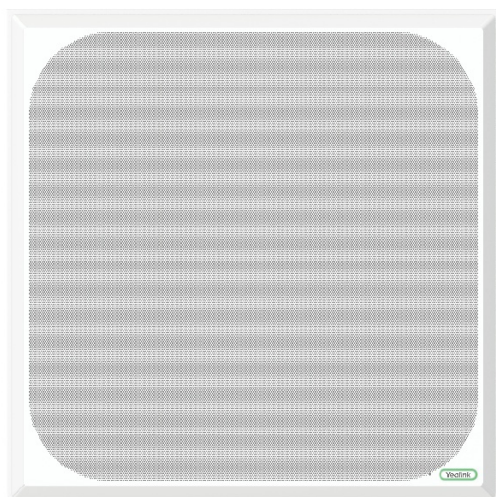


CM50 Datasheet

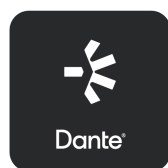
Yealink CM50 is an innovative Dante ceiling microphone system that utilizes beamforming voice pickup technology. With 127 microphone units, it effortlessly covers a 5-meter radius pickup range and supports 8 independent customizable pickup zones. CM50 features prioritized pickup and acoustic fence functions 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.

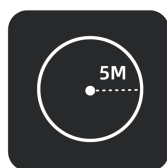
Features



Dante Microphone



127 Microphone Units



5-meter Radius High-Quality Pickup



8 Custom Pickup Areas



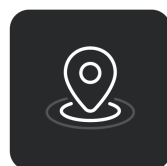
AI-Based Sound Optimization



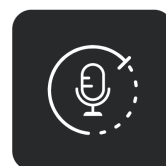
Intelligent Design



Acoustic Adaptation



Sound Source Localization



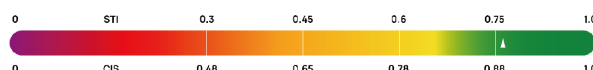
AI Feedback Suppression



Yealink Room Designer

The Yealink CM50 has a 5m radius premium pickup range (STIPA > 0.76)

- Reverberation Level RT60 = 408 ms @ 1 kHz
- Room noise level (weighted) = 40 dB(A) SPL (according to IEC 60268-16)



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!

AI 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

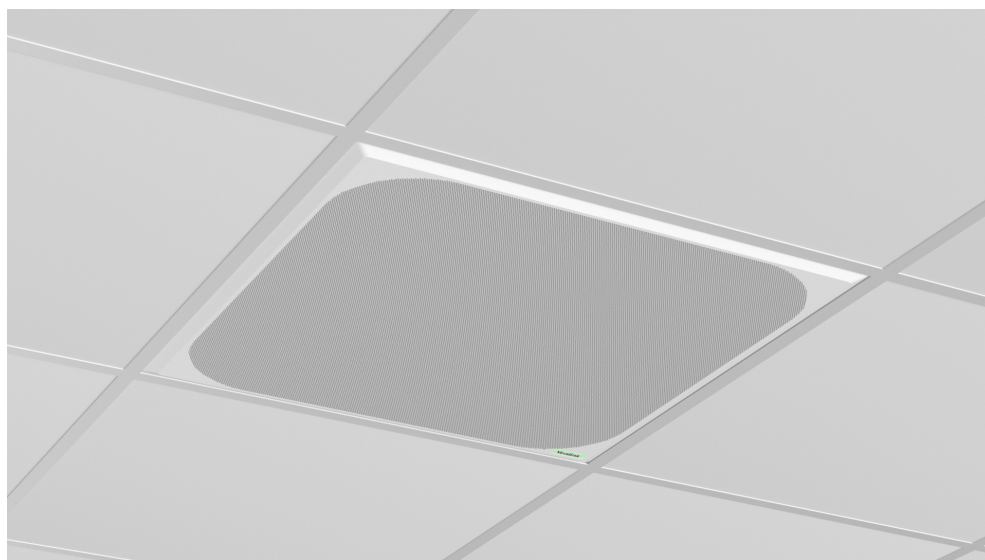
Deeply integrated with Microsoft Teams, Yealink offers convenient features like automatic EQ switching and mute synchronization. Precise CM50 sound source localization* ensures accurate camera tracking, making Yealink the best choice for your AV meetings. Combined with Yealink's native Teams room solution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

Easy deployment

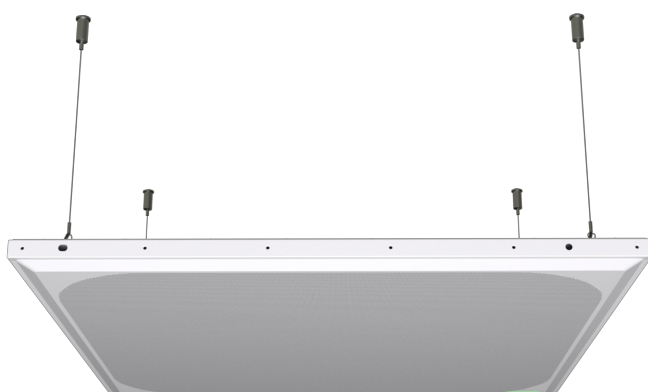
Yealink CM50 requires only one PoE+ cable for power and data transmission. We offer the quickest deployment solution by directly replacing ceiling tiles, eliminating the need for drilling. It fits mainstream ceiling sizes of 60 * 60cm or 2 * 2ft. Optional accessories for suspension or adhesive ceiling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

Hardware Deployment

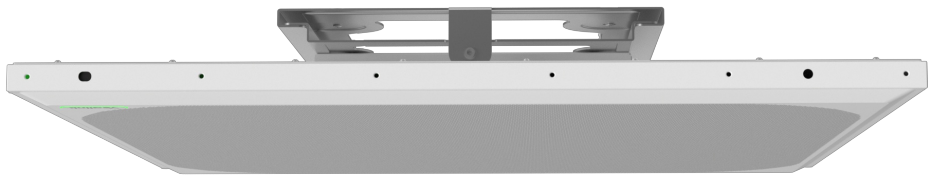
In the Ceiling



Suspend from the Ceiling



On the Ceiling

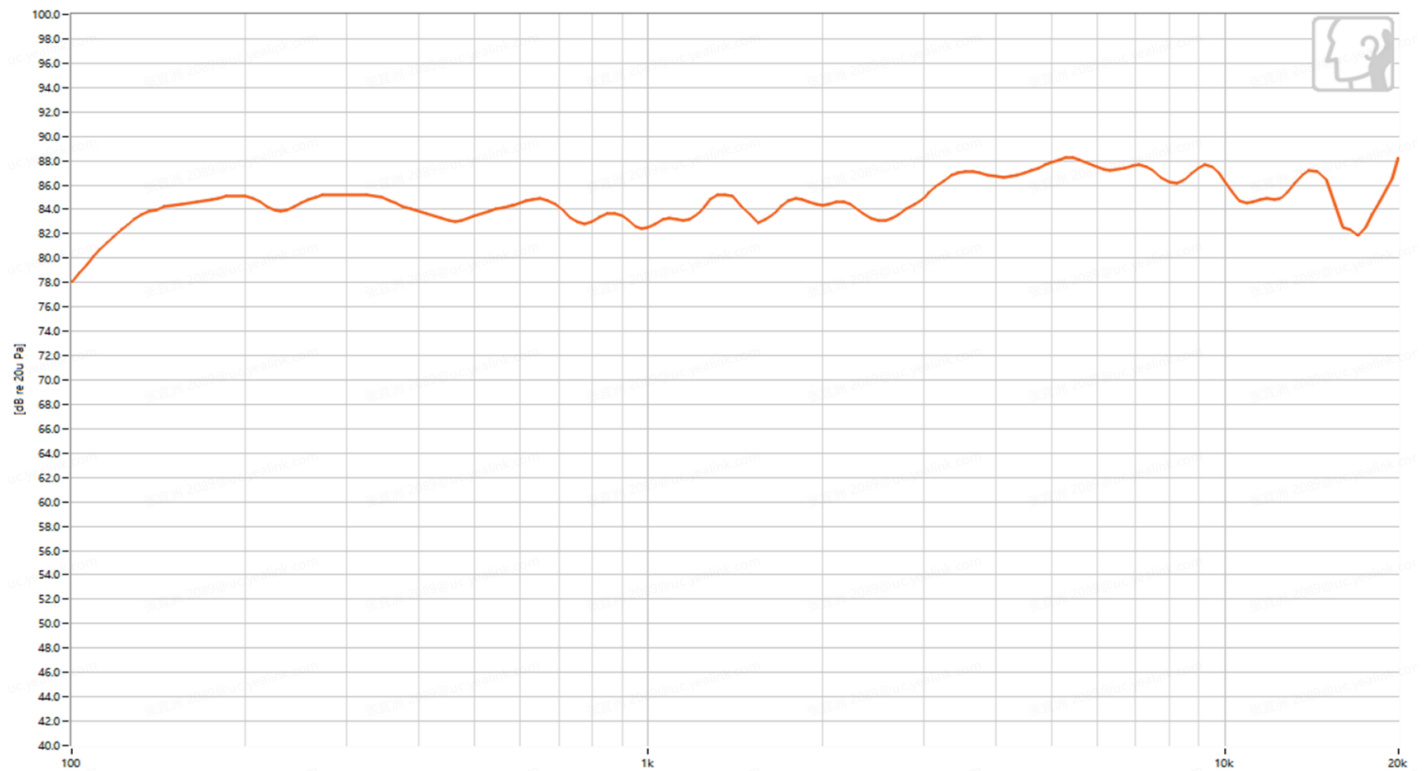


Specifications

Acoustic Parameters	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Output channels: 8+2 Dante output channels• Input channels: 2 Dante input channels<ul style="list-style-type: none">- 1 Dante input for AEC reference- 1 Dante input for AFC reference• Sampling rate: 48K• Bit depth: 24bit

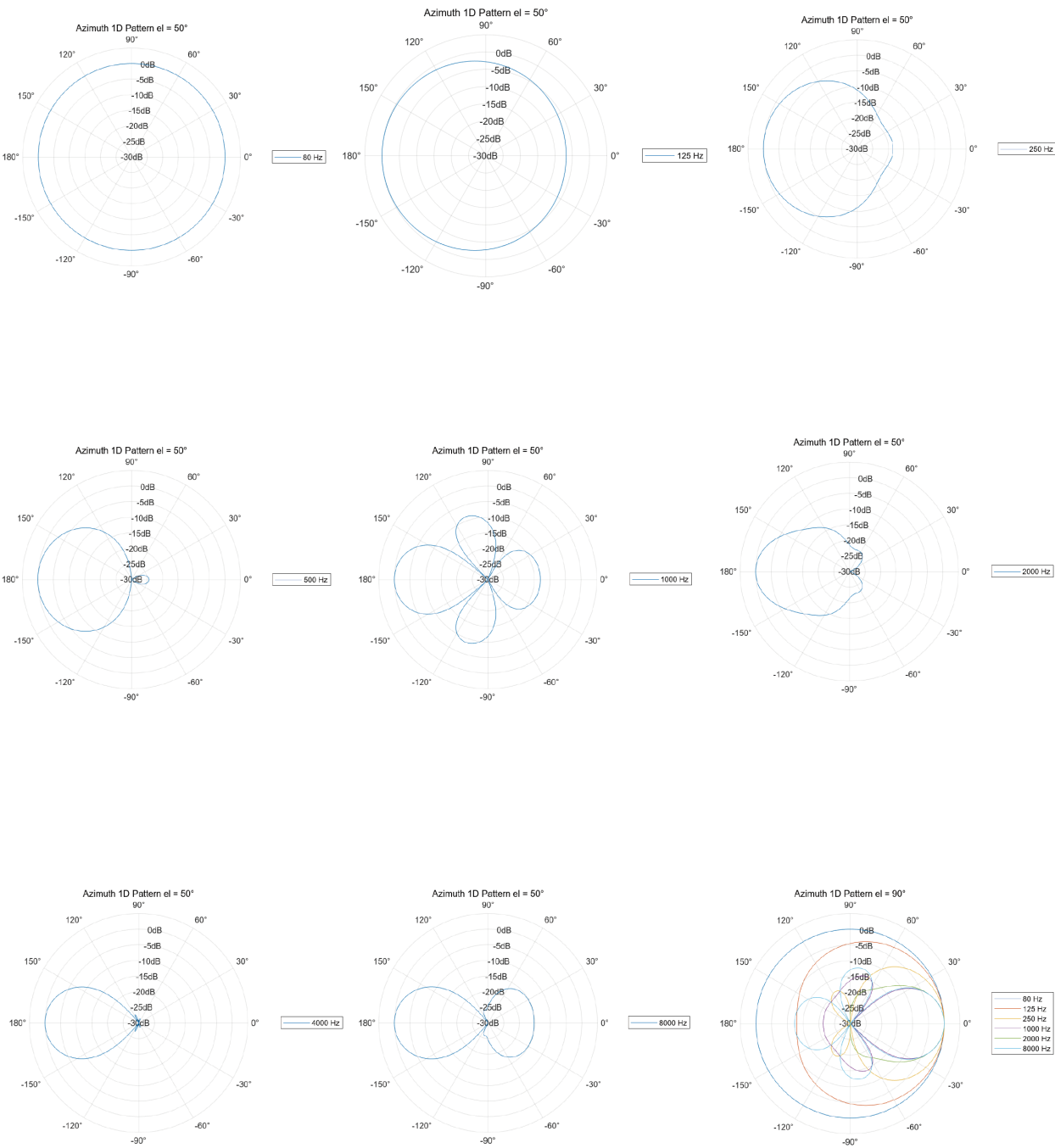
Product Design	<ul style="list-style-type: none">• Microphone array: 127 MENS array• Acoustic technology: Beamforming• Product dimensions: L592*W592*T56mm• Product weight: 5.15kg (net weight, excluding accessories)• Product color: Apple White• Product Material: SGCC/SPCC/AL5052• Certification: Plenum Rated UL 2043 (suitable for air handling spaces)• Physical interface:<ul style="list-style-type: none">- 1* RJ-45 interface- 1* 3-pin Phoenix connectors for analog output
Operating Information	<ul style="list-style-type: none">• 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 style="list-style-type: none">• Giftbox dimensions (L*W*H): 722 * 687 * 110 mm• Weight:<ul style="list-style-type: none">- N.W/CTN: 7.750 kg- G.W/CTN: 9.790 kg• Storage temperature: -30~70°C

Frequency Response Curve



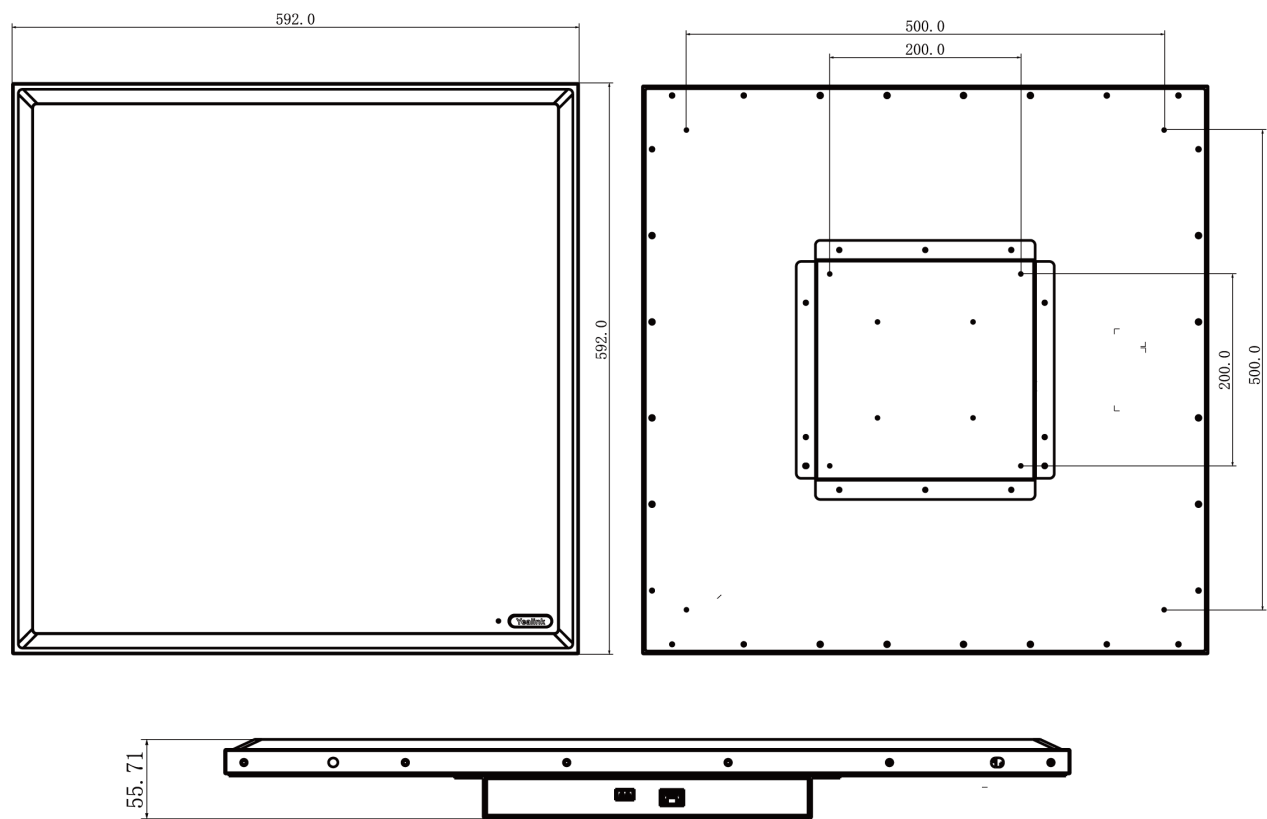
Polarity Diagram

The shape of the lobe is: medium



Dimensions

Unit: mm



Interface



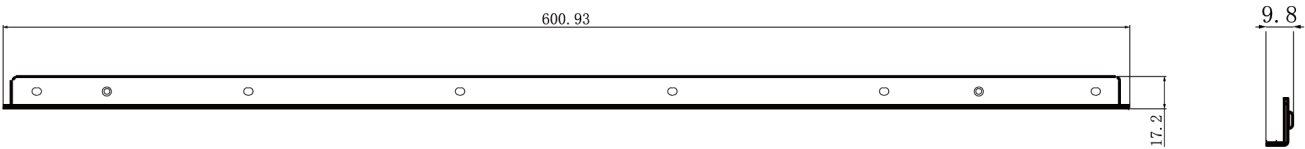
Ethernet	RJ-45 PoE+ Dante interface used for audio transmission and network control
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Analog Out	3-pin Phoenix connectors for analog audio output
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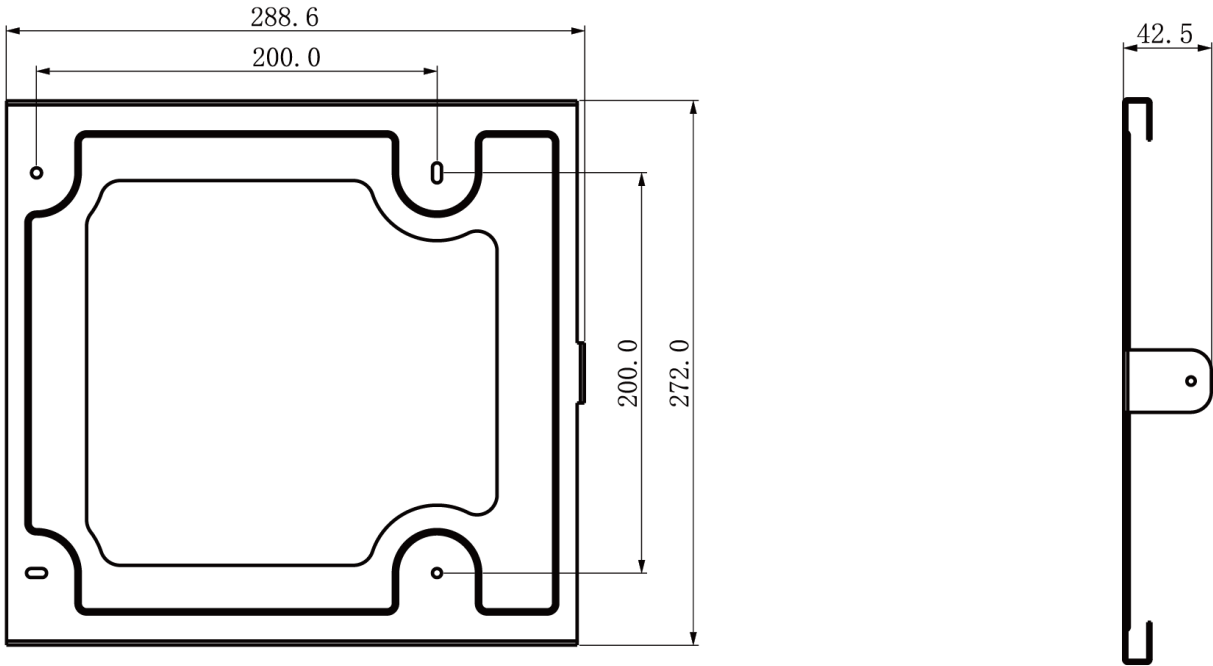
Accessory Dimensions

Unit: mm

Angle Bracket



Mounting Bracket A



Mounting Bracket B

