MS-MC6

Cascade Array Microphone

Description:

The MS-MC6 cascade digital array microphone adopts advanced technologies, including blind beamforming adaptive fast pickup algorithm, intelligent voice tracking, intelligent noise reduction, echo cancellation, automatic gain and de-reverberation. It features a built-in powerful audio processing unit, with ultra-low signal processing latency, and is equipped with infrared remote control. Up to five additional microphones can be cascaded using the MC6B Digital Audio Processor Box (details on Page3).

Key Features:

- **Digital microphone array, clear long distance pickup.** High signal-to-noise ratio ring microphone array design enables long distance pickup, allowing the speaker to move around the room freely in a wider range, free from constraints.

- **Blind beamforming, automatically aimed at the speaker.** With blind beamforming technology, accurate positioning and adaptive sound field environment, it can achieve voice enhancement and better anti-interference ability.

- **Intelligent audio algorithm, clear and natural sound quality.** Built-in powerful audio processing unit, ultra-low signal processing latency, adaptive fast convergence algorithm, intelligent voice tracking, intelligent noise reduction, echo cancellation, automatic gain, de-reverberation, duplex communication without suppression, enables easy listening in a noisy environment.

- **POE cascade to evenly cover the conference room.** Flexible setting of master-slave devices, multiple cascades through POE network cables, distributed pickup and interaction allows even covering of medium and large conference rooms.

- **Standard interface, plug and play.** Standard USB2.0 and AUX audio interfaces with plug and play enables the dual-mode application of digital and analog audio.

- **Flexible installation.** Supports desktop, ceiling, suspended to ceiling or wall installation, allowing flexible and quick deployment, while reducing operation and maintenance costs.
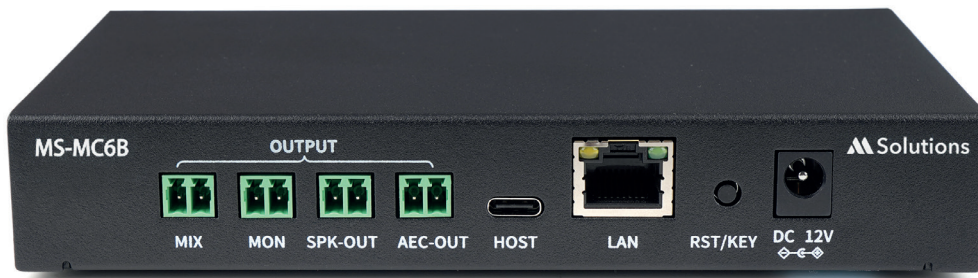
Technical Specifications:

General Parameters	
Microphone type	Omnidirectional microphone
Microphone array	Built-in 6 high SNR microphones form a ring array, 360° omnidirectional pickup
Sensitivity	-38 dBFS
SNR	65 dB(A)
Frequency response	50Hz - 16kHz
Sampling rate	32K sampling, HD broadband audio
Pickup distance	3 meters pickup
Echo cancellation	Support
Noise suppression	Support
Gain control	Support
Cascade function	
Cascade mode	POE network cable
Number of cascades	6
Hardware interface	
Network port	RJ45 network port
USB interface	USB audio interface (Type-C), UAC1.0 protocol, audio data communication, software upgrade and parameter configuration
Analog audio	AUX1, AUX2 linear audio input and output
General specifications	
Power supply mode	POE cascade 48V power supply, support IEEE 802.3 at standard / USB 5V 500mA (single unit)
Support system	Windows / Mac / Linux
Installation	Desktop, ceiling
Size	Φ170 mm * H 40 mm
Weight	370 g
Certification	CE, FCC, ROHS

MS-MC6B

Digital Audio Cascading Unit

The MC6B is a digital audio processor box that allows cascading of several MS-MC6 microphones, to achieve even coverage over larger conference rooms.

Key Features:

- Adopts specially designed chips, embedded architecture, professional digital audio processing, precise volume control, high efficiency and low delay.

- Integrates new-generation digital audio technologies such as automatic noise suppression (ANS), automatic gain control (AGC), automatic echo cancellation (AEC), automatic equalization, intelligent microphone mixing, anti-reverberation.

- Supports up to 6 cascade microphone input and 4-channel line input. Supports extended wireless microphone, 4-channel line output, USB audio input and output.

- Supports standard POE to power digital microphone, RJ45, USB and line audio interface connection. Features plug and play, simple wiring, long-distance transmission and strong anti-interference ability.

Technical Specifications:

Hardware interfaces	
Network interface	1 x uplink LAN interface 1 x downlink cascade DMIC interface, cascade up to 6 microphones
USB interface	1 x Device interface, used as USB audio device to connect USB host (such as PC) 1 x HOST interface, used as USB host to connect USB device
Audio interface	4 x INPUT phoenix interface, unbalanced line audio input 4 x OUTPUT phoenix interface, unbalanced line audio output
Power interface	DC 12V
General specifications	
Power supply	DC 12V/3A
POE	POE 48V power supply, support IEEE802.3 AT
Dimensions	160mm x 88mm x 27mm
Weight	0.4Kg