Amdox

Microwave Absorber MK02

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product features

360. No Dead Corners Omnidirectional Pickup, Ultra-Long Distance Accurate Coverage

The omnidirectional McEwan array is arranged in a cross shape to achieve 360° omnidirectional accurate pickup. The sound within the radius of 5 meters can be clearly recorded.

AI intelligent audio processing, sound pure and stable

It can intelligently identify and reduce non-human environmental noise, with a suppression range of 1 dB to 20dB, effectively eliminating classroom interference such as fan noise and table and chair moving noise, so as to make the sound more pure.

Tracking lighting effects, Wonderful experience of sound visualization

The unique tracking light effect design, the pale blue light will change the brightness and darkness with the intensity of the sound source.

Ultra-long range and ultra-low latency, smooth communication without obstacles

Free to move around a large area without affecting sound reception; deliver sound almost in real time, so that remote interaction or classroom communication has no lag and delay.

Top design and powerful functions, a new benchmark of intelligent audio

The ceiling-mounted microphone design effortlessly covers the entire classroom. It supports dual-lecture interaction for seamless teacher-student communication, while also enabling device cascading to meet audio requirements across various classroom sizes.

Super, super and super wide coverage, free speech without restraint

360° no dead corner reception, remote pickup, free from constraints on the speaking position, communication is not limited by distance.

Scenes are free to expand and communication flows seamlessly

Flexible switching between different teaching scenarios and easy expansion of coverage. Suitable for a variety of systems to achieve seamless integration.

Deep intelligent purification noise, restore pure and clear original sound

Intelligent noise reduction filters out non-human voice interference of 1dB to 20dB, allowing environmental noise to be filtered all the way. The volume is stable, accurately focuses on the sound source, and effectively eliminates room reverberation.

microphone

Microphone type	All pointing to the microphone
Microphone array	Eight omnidirectional microphones are built in to form a ring array (Cross-shaped arrangement), 360° omnidirectional pickup
Distance of pickup	5 Mic clear pickup (radius)
Lap microphone	Built-in collar microphone receiver RX, reception distance 30 meters
operating lag	≤15ms
sensitivity	-29 dB
noise-signal ratio	83dB(A)
sampling rate	32kHz
frequency response	100Hz-16kHz
volume	80±3dB（200-8kHz）@1W/1m
Total harmonic distortion (THD)	≤3%

Audio characteristics

Automatic Noise Suppression (ANS)	Non-human environmental noise reduction, suppression range 1dB–20dB
Automatic Gain Control (AGC)	Keep the speech output constant
Automatic Tracking (DOA)	Automatically track the speaker's position and support speaker direction to avoid interference
Automatic reverb suppression	Support for reverb suppression, RT60<2.5s
Remote interaction	Support remote meetings, output clear and accurate
Beamforming technology (BF)	Adaptive beam, optimize sound projection and distribution

Lighting effects

Status indicator	Tracking light effect: light blue light, bright and dim according to the intensity of the sound source (Supports independent brightness adjustment)

attended mode

communication mode	wired USB

functional interface

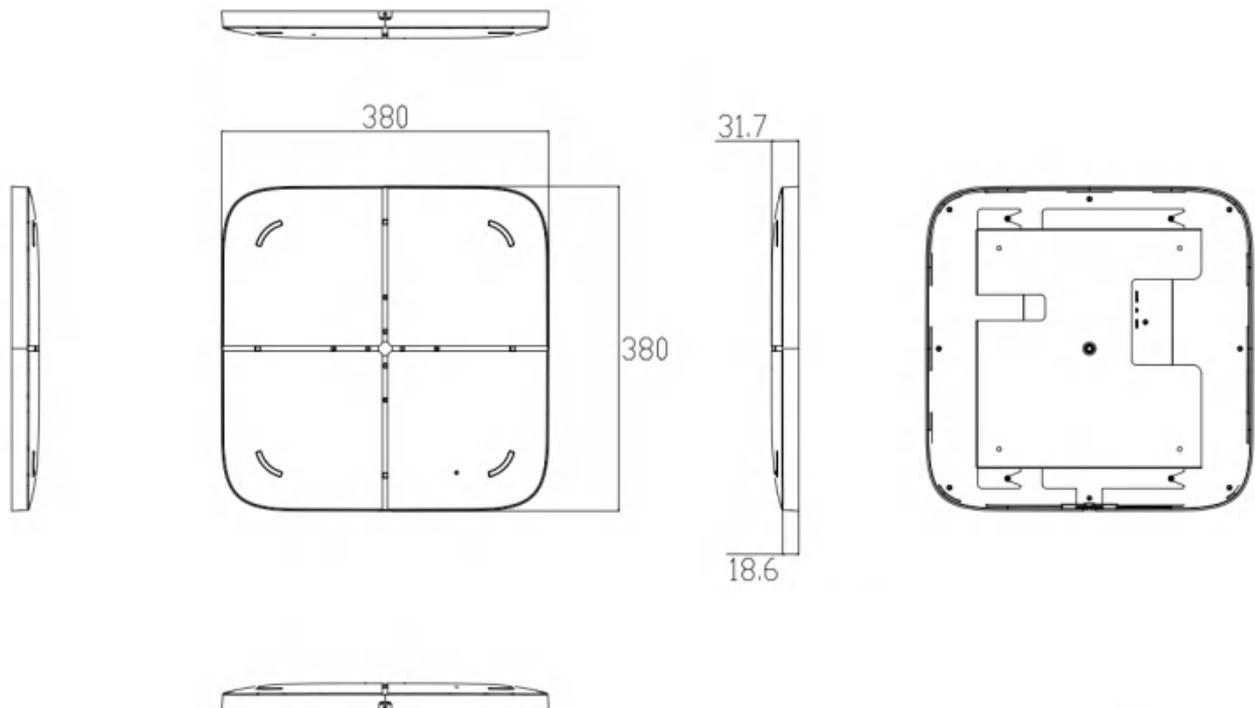| Audio output	Line out *1、USB Type-C *1、RJ45 out *1
Audio input	Line in *1、RJ45 in *1
USB joggle	Type C, DC 5V, support UAC1.0 protocol, Audio duplex communication, software upgrade and configuration
Power interface	DC 5V (supports power adapters)
Hierarchical interface	RJ45 interface cascading
Number of cascades	Supports the cascading of at least 2 devices
USB protocol	support UAC

AI matrix characteristics

Core functions	Dampers microphone (with built-in RX), 8-microphone cross array, 360° omnidirectional Pick up sound, pick up sound radius>5m, support double talk interaction and cascading

other

Power adapter	Input: 100-240V; Output: USB 5V/1A
ESD&EMI	Contact discharge ±4KV, air discharge ±8KV no effect; EMI Class B
system support	Windows 10、Android、Linux、Mac
Supported software	Skype, Zoom, Cisco, DingTalk, WeChat, QQ, Webex, GoToMeeting and others (covering mainstream conference software)

product size

380
380
31.7
18.6

Contact Us:
sales@amdox.com

Facebook:
Sunvol Board

YouTube:
SUNVOL

Website:
www.amdox.com