SP-7U

Smart Conference Microphone Speaker





Description

New generation speaker phone, equipped with four high S/N beam forming microphones and two extension microphones, built - inadvanced audio algorithm scan support AI echocancellation and noise reduction, impressive sound performance, large voice pick up range can cover the demand of a large conferencing room.

Features

- **Fashionable Business Appearance:** All aluminum alloy box, metallic silver color scheme, highly textured, suitable for various business scenarios such as meeting rooms and offices.

- **4+2 Digital Array Microphone:** The host is equipped with four high SNR omnidirectional Microphone array, which can locate the speaker's direction and position. Through beamforming algorithm combined with AI technology, high-quality audio can be obtained to ensure smooth remote meetings. At the same time, there are two extended microphones as standard, enabling remote pick up to support large conference rooms.

- **New Generation AI Echo Cancellation System:** Equipped with a new generation of traditional signal processing and deep learning echo cancellation system, using highly robust traditional signal processing algorithms and integrating the latest deep learning network (CrossNet), it achieves the effects of both echo cancellation, noise reduction, and ensuring speech quality.

- **USB Plug and Play, Hidden Cables, Clean Desktop:** Equipped with standard USB2.0 interface, compatible with Type - A / C connection, device plug and play, and compatible with various mainstream conference software.

- **New Generation AI Audio Noise Reduction Technology:** Adopting multi microphone extraction technology with self-positioning target speakers, it can shield common conference noise such as keyboard, mouse or table tapping, fan sound, air conditioning sound, etc. During full duplex calls, it can achieve dual talk without pressure and clear calls, allowing attendees to focus more on the conference content discussion.

- **Professional Design of Sound Chamber:** High fidelity acoustics is used to design the sound chamber, and the tweeter and bass speaker units are matched, and professional sound effects are used to tune. When playing music as a desktop audio, the bass is thick, the tweeter is thorough, the voice is clear and natural, and the voice is more exquisite.

Specifications

Microphone	
Microphone Type	High signal-to-noise ratio digital silicon microphone
Microphone Array	Built in six (4+2) MEMS microphones
Microphone Range	360 ° omnidirectional pickup
Polar Distance	Main microphone: 3m Extended microphone: 2m
Sampling Rate	32 KHz high-definition broadband audio
Effective Frequency Range	50Hz ~ 16kHz
Signal to Noise Ratio	94 dB SPL @ 1 kHz , 68 dB(A)
Sensitivity	94 dB SPL @ 1 kHz , -35 dBFS

Speaker	
Speaker Type	High frequency × 1+Low frequency × 1
Rated Output Power	15W
Effective Frequency Range	50Hz ~ 20kHz
Volume	89 dBA @ 1m
THD	< 3%

Specifications

Hardwareinterface	
Power Supply Mode	Power : DC12V/2A , External power supply to power the microphone Operating Frequency : 50Hz / 60Hz
Supportive System	Windows / Mac / Android / Linux
USB Interface	USB Type-C 2.0×3 (PC×1, external mic× 2)
Pilot Lamp	Circular indicator strip with multiple color combinations, allowing users to easily identify the current working status of the microphone in the product, making operation convenient and concise
Key	Tap the buttons (volume+, volume -, mute, hang up, dial)

GenericSpec	
Product Dimension	Main microphone : 150mm (L) × 150mm (W) ×89mm (H) ; Extended microphone : 80mm (L) × 80mm (W) × 25mm (H)
Package Dimension	297mm × 248mm × 125mm
Weight	Main microphone : 1.23 kg Extended microphone : 0.13 kg × 2
Environmental Requirements	• Temperature : 0° C ~ 40° C (operating state), – 40° C ~ 60° C (non-operating state) • Relative humidity : 45% ~ 90% (operating state), 30% ~ 90% (non-operating state)

Specifications

Audio	
Noise suppression	AI noise reduction, eliminating various stationary and non-stationary disturbances Noise, maximum background noise suppression: 90 Db
Full-duplex	Full duplex voice
Echo Cancellation	AI algorithm for echo cancellation
Gain Control	Intelligent gain adjustment control within 10m, clear pickup
Reverberation Suppression	Using AI algorithm to reduce reverberation



AI Audio Noise Reduction Technology

Adopting multi microphone extraction technology with self positioning target speakers, it can shield common conference noise such as keyboard, mouse or table tapping, fan sound, etc. During full duplex calls, it can achieve dual talk without pressure and clear calls, allowing attendees to focus more on the conference content discussion.



Fashionable Business Appearance

All aluminum alloy box, metallic silver color scheme, highly textured, suitable for various business scenarios such as meeting rooms and offices.



AI Echo Cancellation System

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Professional Design of Sound Chamber

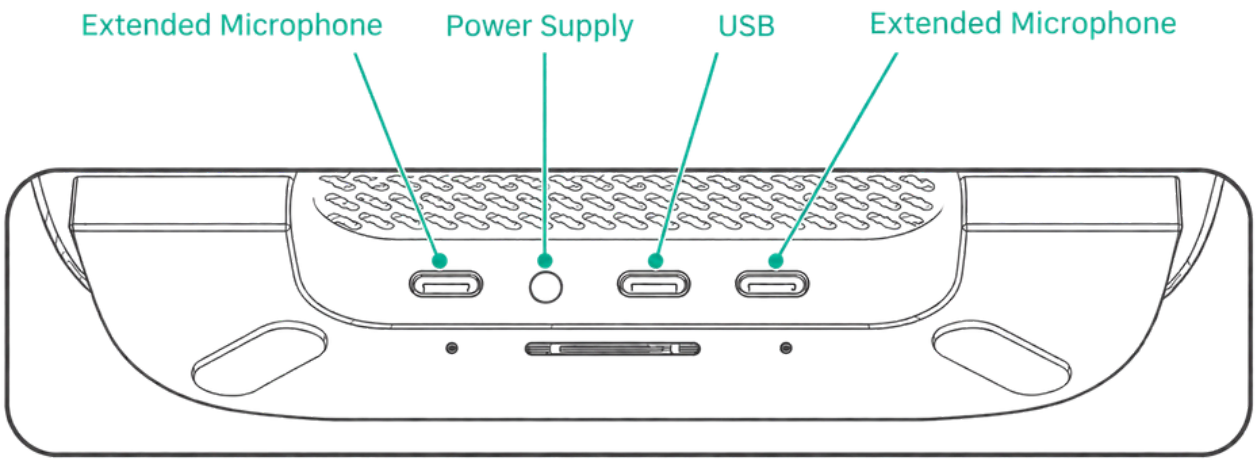
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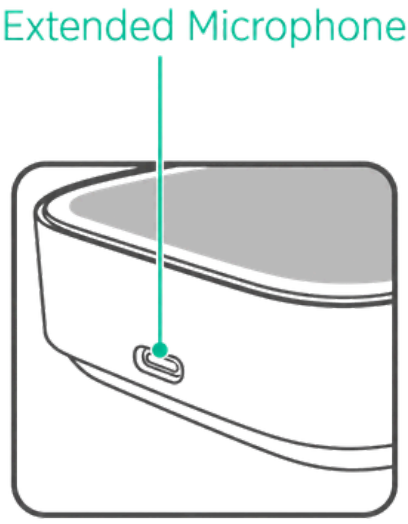


Collab with All Smart Devices

With Windows, macOS and Android, all important operating systems and platforms are natively supported. Apple Devices can be connected via AirPlay and Miracast are available platform-independently. Android can be connected via mobile apps “WirelessMedia2”.

Ports & Components





Dimension Diagram

