D5863

Digital Array Microphone

Description

The D5863 digital array microphone is a high-performance audio pickup device designed with an embedded architecture. It supports beamforming and professional digital audio processing technologies, offering an 8-meter long-distance pickup capability with voice auto-tracking and full-duplex interaction. With its compact and elegant design, the microphone features a 32kHz wide-band sampling rate and integrates intelligent audio algorithms such as automatic noise reduction, echo cancellation, and automatic gain control, effectively eliminating noise and echoes, suppressing reverberation, and ensuring minimal acoustic environment requirements. The device is plug-and-play, requiring no additional configuration or debugging, making it simple and convenient to use. Equipped with industry-leading de-reverberation technology, the microphone performs exceptionally well in complex acoustic environments such as large conference rooms, classrooms, and lecture halls, delivering clear and superior audio pickup. The device supports cascading up to 4 units, covering spaces ranging from 100 to 500 square meters. It offers flexible installation options, including ceiling suspension, wall mounting, and desktop placement. Whether for video conferencing, presentations, or educational training, the microphone enables rapid deployment and efficient audio pickup across diverse scenarios.

The mixer is an audio mixing processor with remote communication capabilities, specifically designed for cascading multiple D5863 devices. It supports the cascading of 2-4 D5863 units and features professional echo cancellation, effectively reducing feedback and noise. Equipped with intelligent noise reduction technology, it suppresses environmental noise, ensuring clear and smooth audio quality. The mixer is ideal for conference rooms ranging from 80 to 200 square meters. It supports remote USB and 3.5mm audio

input/output communication interfaces, enabling connections to communication terminals and education recording and broadcasting systems. Additionally, it supports the 3.5mm AUX interface, allowing connections to mixers, amplifiers, and speakers for remote audio output.

The hub is a robust device for long-distance transmission and is compatible with a variety of devices on the market. Using the RJ45 interface, the hub enables power supply and data transmission over distances of 10 to 30 meters (standard PoE cable length: 10 meters), addressing large-scale application scenarios while significantly simplifying cabling requirements. The hub connects to communication terminals and education recording and broadcasting systems via the USB interface. It also links recording equipment through AV and AUX audio output interfaces, facilitating local microphone audio recording.

Features

- Digital array microphone with an 8-meter long-distance pickup capability.
- Innovative multi-level cascading, supporting up to 4 units in series.
- Standard USB (Type-C) and 3.5mm audio interfaces for plug-and-play operation, with no need for professional tuning.
- POE interface, supporting remote power supply and data transmission.
- Feature intelligent noise reduction, echo cancellation, reverberation suppression, and full-duplex communication.
- Support intelligent voice tracking and adaptive sound field environment.
- Suitable for ceiling, wall, and desktop installations.
- Crafted with aluminum alloy and a fabric-covered design, offering a refined and durable appearance.

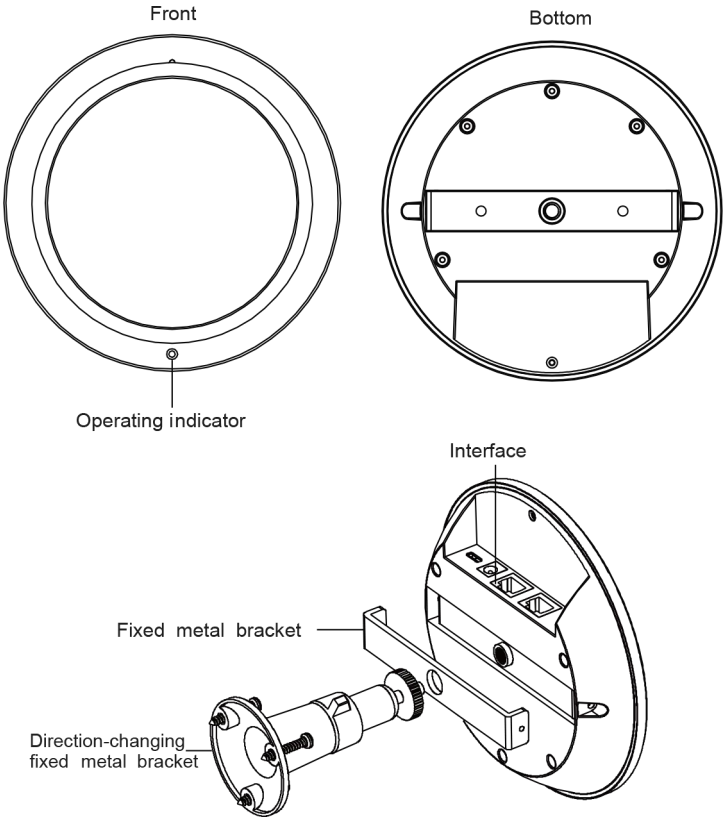
Specifications

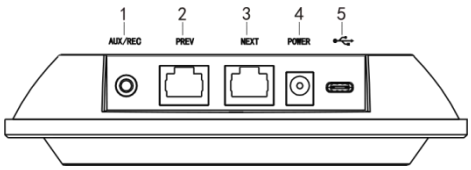
Model	D5863
Digital Array Microphone	
Microphone Type	Omnidirectional microphone
Microphone Array	Built-in 10-microphone array, 360-degree omnidirectional pickup
Pickup Distance	8m clear pickup
3A Algorithm	AEC/ANS/AGC
Sensitivity	-26dB FS
S/N Ratio	>80dB (A)
Frequency Response	20Hz-16kHz
Sampling Rate	32K sampling rate, high-definition wideband audio
USB Protocol	Support UAC
Hardware Interface	1×3.5mm audio interface, 1×USB Type-C interface, 2×RJ45 network interfaces, 1×DC12V power interface
Power Supply	Adapter DC12V/1A or USB (Type-C) 5V/2A
Cascading Method	PoE powered
Product Dimensions	156mm*156mm*40mm
Inner Box Dimensions	217*195*127mm (1 pc)
Outer Box Dimensions	495*420*228mm (6 pcs)
Net Weight	250g

Gross Weight	920g
Mixer	
Audio	Support dual-channel 2-level cascading transmission, that is, cascading 2 devices per interface.
Hardware Interface	2×3.5mm audio interfaces, 1×USB interface, 2×network interfaces, 1×power interface
Power Supply	Adapter DC12V/2A
Cascading Method	PoE powered
Product Dimensions	114.54mm*114.54mm*22.60mm
Inner Box Dimensions	217*195*127mm (1 pc)
Outer Box Dimensions	495*420*228mm (6 pcs)
Net Weight	243g
Gross Weight	715g
Hub	
Audio	Support long-distance audio network transmission
Hardware Interface	2×AV audio interfaces, 1×USB interface, 1×network interface, 1×power interface
Power Supply	Adapter DC12V/1A
Product Dimensions	114.54mm*114.54mm*22.60mm
Inner Box Dimensions	217*195*127mm (1 pc)
Outer Box Dimensions	495*420*228mm (6 pcs)
Net Weight	243g
Gross Weight	715g

Front / Rear Panel

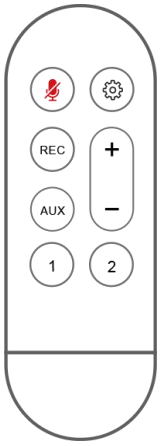
Digital Array Microphone Appearance and Interface Description





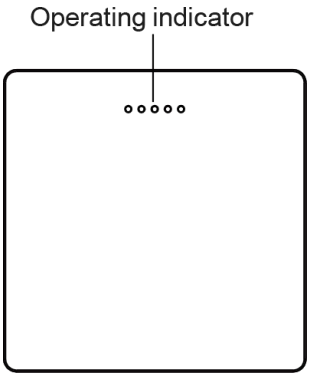
1. 3.5mm Interface: AUX/REC, local uplink audio / PC downlink audio (switched via remote control).
2. RJ45 Interface: REV, connect to the next level of cascading ceiling microphones (PoE powered).
3. RJ45 Interface: NEXT, connects to the previous level of cascading ceiling microphones (PoE powered) or hub.
4. POWER Interface: DC12V/1A power input.
5. USB Interface: USB data transmission.

Remote Control Description

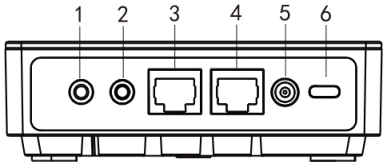


Icon	Button	Description
	Microphone Mute Button	Mute/Unmute the microphone
1 2	Preset 1/2	NG
	Settings Button	NG
REC	Recording Output	Local audio (uplink)
AUX	Speaker Signal Output	Remote audio (downlink)
+ −	Microphone Gain Increase/Decrease	NG

Mixer Appearance and Interface Description



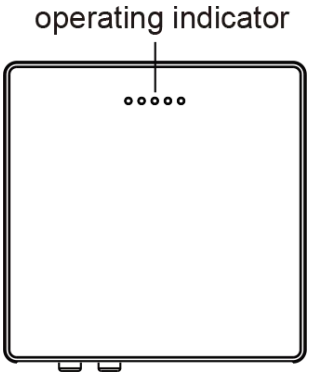
Mixer (Optional for Cascading Connection)



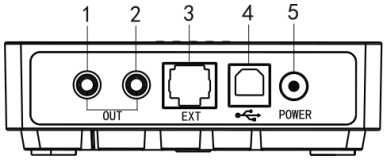
1. AUX: Audio input interface.

2. IN/OUT: Audio input/output interface.
3. NEXT2: Connect to cascading ceiling microphone.
4. NEXT1: Connect to cascading ceiling microphone.
5. POWER: DC12V/2A power input.
6. : USB power + audio.

Hub Appearance and Interface Description



Hub (Optional for Long-Distance Transmission Connection



1. OUT: Audio output.
2. OUT: Audio output.
3. EXT: Connect to ceiling microphone (PoE powered).
4. : Connect to the conferencing system.
5. POWER: DC12/1A power input.