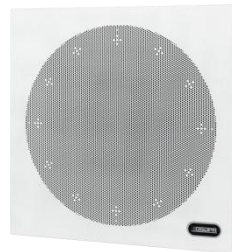
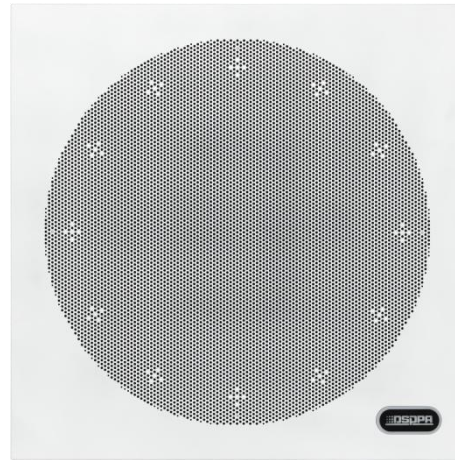


## D7714

### Ceiling Array Conference Microphone



#### Description

The D7714 is a high-end ceiling array conference microphone featuring up to 104 high-performance digital microphones and hundreds of beamforming microphone arrays, delivering highly precise and crystal-clear voice pickup. Certified under the Tencent Tianlai technical standard and fully compatible with Tencent Meeting, the D7714 works within the Tencent ecosystem to create a consistent smart conferencing experience across various meeting scenarios. It supports one-touch functions such as joining Tencent Meetings, leaving meetings, and microphone mute control. Different Tencent Meeting statuses are intuitively indicated through LED lighting effects for easier and more convenient operation by users and participants.

It supports ultra-long-distance voice pickup and highly effective reverberation suppression. Equipped with advanced AI audio algorithms, the system can effectively eliminate more than 300 types of non-human noise and interference, creating a stable, quiet, and immersive conferencing environment.

The D7714 ceiling array conference microphone adopts low-latency IP digital audio technology, supporting PoE network power supply and IP cascading with up to 8 units. With its distributed cascading architecture, two or more ceiling microphones can be directly interconnected without requiring additional audio processors or mixers. This distributed solution offers greater cost efficiency, simplified deployment, and enhanced convenience. Using distributed voice pickup technology, the microphone maintains clear and natural speech reproduction whether operating as a single unit or in a multi-unit cascaded system, effectively avoiding hollow or muddy sound. In network transmission applications, it ensures stable audio

transmission and broad compatibility. PoE technology further simplifies system cabling, while embedded, suspension cable, and suspension rod mounting options make it suitable for various high-end conference environments.

When multiple D7714 units are cascaded together, they automatically communicate and collaborate to accurately determine the speaker's position. The optimal microphone beam is then intelligently directed toward the speaker for precise voice pickup, resulting in cleaner sound quality and extended pickup distance. This advanced distributed cascading technology enables multiple ceiling array microphones to function as one unified intelligent microphone system, delivering more accurate sound source localization, improved automation, and consistent voice pickup performance. Compared with conventional ceiling microphone solutions that rely on external mixers and audio processors for cascading, the D7714 provides clearer and more natural speech reproduction while effectively reducing reverberation and audio degradation in multi-microphone deployments.

The D7714 features highly adaptive AI noise reduction technology capable of suppressing more than 300 types of environmental noise. It effectively minimizes common background disturbances in conference rooms, classrooms, and factories, including air conditioning noise, fan noise, keyboard typing, table tapping, chair movement, touchscreen tapping, cup placement, and page turning. This ensures clean, comfortable, and distraction-free voice communication.

In addition, the D7714 includes an advanced AI Acoustic Fence function that allows users to define specific pickup zones while blocking sounds outside the designated area. Users can freely configure pickup regions according to different meeting spaces and scenarios. Four preset pickup modes are available and can be switched in real time via remote controller to quickly adapt to different applications within the same meeting room.

The D7714 ceiling array conference microphone integrates 104 high-performance microphones with an optimal voice pickup distance of up to 8 meters. It supports AI voice pickup, AI reverberation suppression, and full-duplex acoustic echo cancellation.

A single D7714 ceiling array microphone is ideal for medium-sized business and executive conference rooms, as well as classrooms. Through IP cascading technology, multiple D7714 units can be interconnected to accommodate larger application environments.

## Features

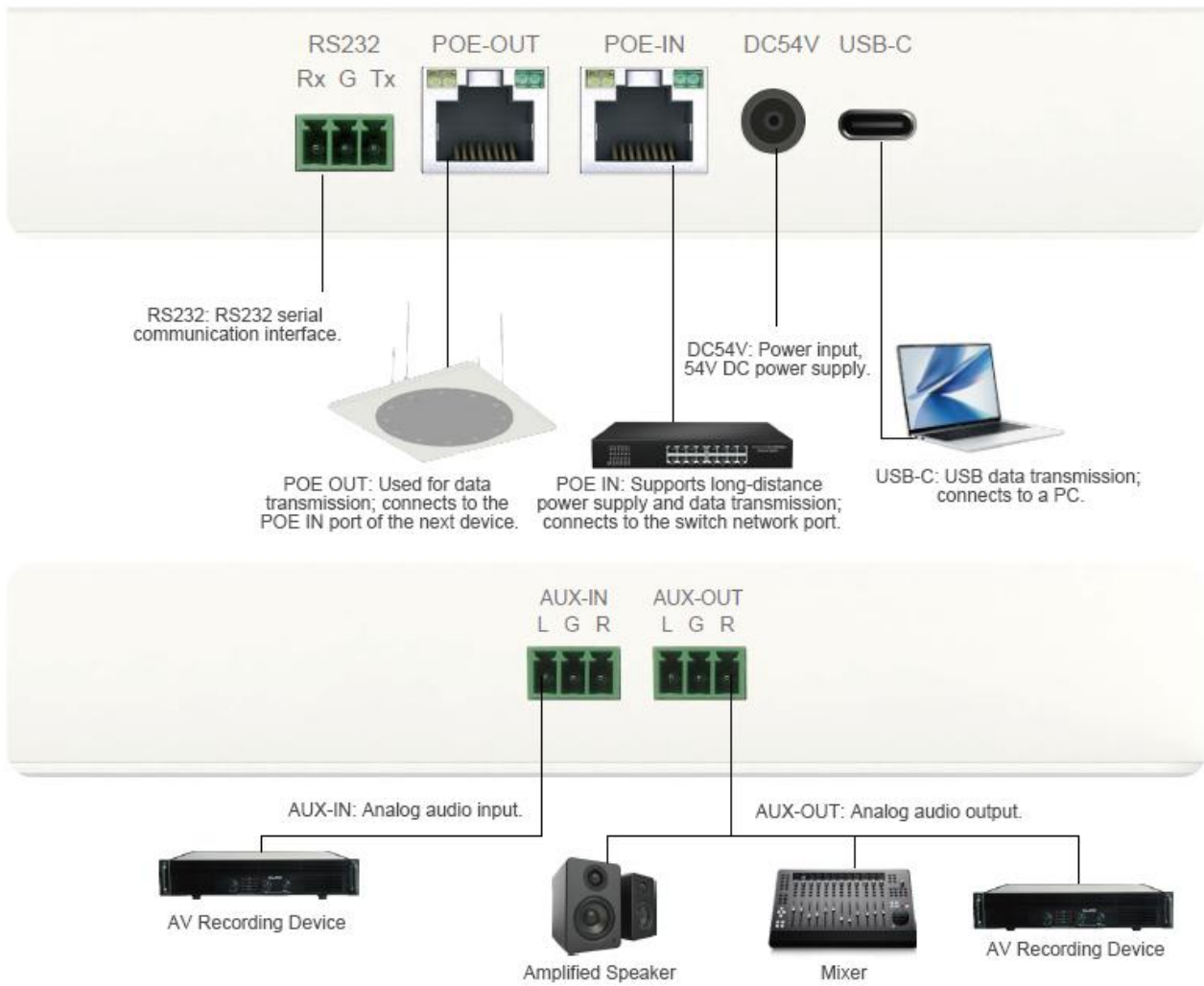
- Certified under the Tencent Tianlai technical standard and fully compatible with Tencent Meeting, it works within the Tencent ecosystem to create a unified smart conferencing experience across various meeting scenarios.
- Compatible with Tencent Meeting, supporting one-touch meeting join/leave and microphone mute functions, with lighting indicators showing different meeting statuses for intuitive operation.
- Intelligent AI noise reduction technology capable of suppressing more than 300 types of environmental noise in conference rooms, classrooms, and factories.
- Distributed cascading technology allows direct cascading of two or more ceiling array microphones without requiring additional audio processors or mixers.
- Distributed voice pickup technology ensures consistently clear and natural speech reproduction in both standalone and multi-unit cascading applications.
- Supports IP audio technology, PoE network power supply, and IP cascading of up to 8 units.
- Distributed intelligent voice processing enables automatic mixing among cascaded devices without mixers or audio processors, providing a more economical and simplified solution for medium and large conference spaces.
- Supports device configuration and control through dedicated PC control software.
- PoE IP technology supports long-distance power supply and data transmission.

- Integrates up to 104 high-performance digital microphones with hundreds of beamforming arrays for highly precise voice pickup.
- AI voice pickup technology enhances target speech while suppressing unwanted pickup areas.
- Dual 3.5mm interfaces support audio input and output.
- Easy deployment with automatic device discovery and plug-and-play networking.
- Supports online firmware upgrades via network connection.
- Distributed intelligent voice processing technology enables collaborative interaction among cascaded devices, automatically locating speakers and directing the optimal microphone beam for more accurate and longer-distance voice pickup.
- Operates with a single network cable for both power and data transmission, simplifying installation while enabling longer transmission distance and cleaner deployment.
- Advanced AI Acoustic Fence function allows flexible configuration of pickup and blocking zones through the UI interface, with real-time mode switching via remote controller.
- AI reverberation suppression technology minimizes hollow reverberation during long-distance pickup, reduces muddiness in glass-walled and reflective environments, and improves speech clarity by enhancing direct sound pickup.
- AI noise reduction effectively suppresses over 300 types of sudden environmental noises such as air conditioning, fans, keyboard typing, table tapping, chair movement, touchscreen tapping, cup placement, and paper flipping.
- Provides DOA (Direction of Arrival) speaker positioning information.
- Supports full-duplex acoustic echo cancellation, dynamic noise suppression, and automatic gain control (AGC).
- Includes an infrared remote controller for convenient microphone mute and speaker volume adjustment.
- LED indicators display device operating status and microphone mute status.
- Provides an RS232 serial communication interface.
- Supports USB communication, with optional external power adapter available for additional power requirements.
- Equipped with two balanced Phoenix AUX ports supporting audio input and output.
- Beamforming technology allows users to speak freely from anywhere in the meeting room.
- Low-latency, uncompressed audio transmission over IP networks.
- Supports suspension and ceiling-mounted installation methods and multi-device cascading.

# Specifications

Model	D7714	
Audio Processing	AI Noise Reduction	Supported
	AI Reverberation Suppression	Supported
	AI Acoustic Echo Cancellation	Supported
	AI Full-Duplex	Supported
	AI Acoustic Fence	Supported
	Mixing Channels	Supported
	Intelligent Mixing	Supported
Audio Performance	Audio Features	Distributed intelligent automatic voice pickup and mixing
	Sampling Rate	48KHz
	Maximum Background Noise Suppression	40dB
Microphone Array	Sensitivity	-37dBv / 94dB SPL @ 1kHz
	Microphone Type	104-element digital MEMS microphone array
	Beamforming	Hundreds of beams
	IP Audio	Supported
	Frequency Response	50Hz – 22kHz
	Signal-to-Noise Ratio	66dB (94dB SPL @ 1kHz, A-weighted)
Cascading	Maximum Cascading Quantity	Up to 8 units
	Cascading Method	Distributed cascading technology
Interfaces	Type-C Port	1
	Balanced Phoenix AUX Port	AUX IN, AUX OUT
	RS232 Communication Port	1
	RJ45 Network Port	2
	DC54V Power Input	1
Indicators	Working Status Indicator	Solid white: working status; solid red: microphone muted
	Logo Indicator	Solid white
	Tencent Meeting Indicator	Solid green when connected successfully
Operating Temperature	0°C – 50°C	
Storage Temperature	-10 – 50°C	
Product Color	Elegant white	
Product Dimensions	596×596×52.5 mm	
Inner Package Dimensions	712×712×132 mm	
Outer Package Dimensions	730×730×160 mm	
Net Weight	4.34kg	
Power Supply	PoE or external power adapter	
Installation Method	Suspended mounting / ceiling flush mounting	
Accessories	Remote controller ×1, User manual ×1, USB-C cable ×1 (1.5 m), RJ45 cable ×1 (10 m), Suspension kit ×1	

## Interface Description



## Remote Controller Instructions

