D6850 D6859

2.4G Wireless Digital Conference System

D6850
2.4G Wireless Digital Conference System Host

D6859
2.4G Wireless Conference Indoor Signal Booster

Description

The 2.4G Wireless Digital Conference System is a fully digital conference system specifically designed to integrate wireless discussion, camera tracking, and other functions. A single conference host can connect up to 255 wireless digital conference units. The system operates in the ISM frequency band using 2.4G full digital frequency-hopping (DSSS) modulation communication technology, enabling seamless coexistence with WiFi and featuring exceptional anti-interference capabilities. It employs true wireless digital transceiver separation and adaptive frequency-hopping technology, along with forward error correction and retransmission mechanisms, ensuring data is never lost. With encryption protection, the system prevents eavesdropping and unauthorized access, safeguarding meeting privacy. The system supports three speech modes: "First-In-First-Out," "Normal Mode," and "Chairman Mode." It allows up to four units to be activated simultaneously, with the speaking count adjustable from 1 to 4, enabling effective order management during meetings.

This system requires no complex cable installations and can be flexibly configured to meet meeting requirements without the need for frequency applications. Its advanced 2.4G frequency-hopping modulation communication technology and digital transmission technology significantly reduce the impact of interference signals on system operation. The unique 2.4G transmission characteristics, combined with its robust digital transmission technology and comprehensive communication protocols, ensure maximum security for meeting content. The system meets the needs of both standard fixed-installation conference rooms and portable meeting setups, offering a high-reliability conference solution that is both convenient and efficient.

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2.4G Wireless Digital Conference System Host

- 4.3-inch capacitive touch screen with a graphical interface design, providing a clear view of all functions, settings, and basic working information of the units; modern and elegant design. The touch control operation ensures highly user-friendly interaction.
- Operates in the ISM band (2400MHz – 2525MHz) with fully digital frequency-hopping (DSSS) modulation communication technology, allowing seamless coexistence with WiFi and offering excellent anti-interference performance.
- Features true digital wireless transceiver separation and adaptive frequency-hopping technology, along with forward error correction and retransmission mechanisms to ensure no data loss.
- Encryption protection prevents eavesdropping and unauthorized access, ensuring the confidentiality of meetings.
- Full digital audio processing technology with an audio sampling rate of 48kHz.
- Supports connection of up to 255 wireless conference units.
- Includes a one-button shutdown function to turn off all units.
- Provides three conference modes: First-In-First-Out, Normal Mode, and Chairman Mode, with the ability to configure simultaneous speaking for 1/2/3/4 units.
- Equipped with one RS232 interface for seamless integration with central control systems.
- Displays real-time information on channels, ID addresses, and battery levels of the units.
- Includes one RS422 interface for centralized camera control.
- Allows total volume adjustment and individual 4-channel volume control to regulate signal output levels.
- The chairman unit features a Chairman Mode with priority functions, which are available on all chairman units.
- Supports speech timing and countdown reminders. The speech timing function allows setting the speaking time for units or disabling the timer for unlimited speaking.
- The system display supports Chinese and English languages.
- Connects to the wireless transceiver via a professional communication cable, with the host providing power to the transceiver, eliminating the need for an external power source.
- Includes two unbalanced audio output interfaces for connection to preamplifiers, mixers, or professional amplifiers.
- Offers four balanced audio output channels for connection to audio processors.
- Features a high-end exterior design with a 2U chassis, suitable for installation in standard 19-inch racks.

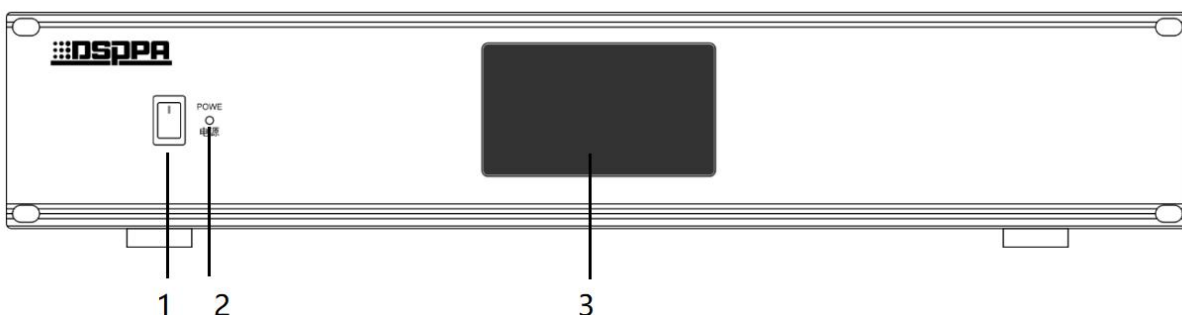**2.4G Wireless Conference Indoor Signal Booster**

- Uses a 14dBi directional high-gain planar antenna in the 2.4-2.5G frequency band, with an input impedance of 50Ω.
- Built-in 2.4G ultra-low power wireless module with a 48K digital audio sampling rate.
- Utilizes 2.4G all-digital frequency-hopping modulation communication technology.
- Includes a powerful built-in wireless audio transmission protocol, employing numerous coexistence mechanisms to prevent wireless conference units from external interference.
- Built-in digital circuitry significantly amplifies the 2.4G wireless signal, enhancing communication stability for conference units.
- Full-range communication with adaptive frequency hopping, forward error correction, and retransmission mechanisms to ensure data is never lost.

- Connects directly to the host without the need for an external power supply, with both receiving and transmitting capabilities.
- Radiation range of up to 40 meters in a straight line.
- Equipped with a universal adjustable base for flexible installation on walls, desktops, and other locations.
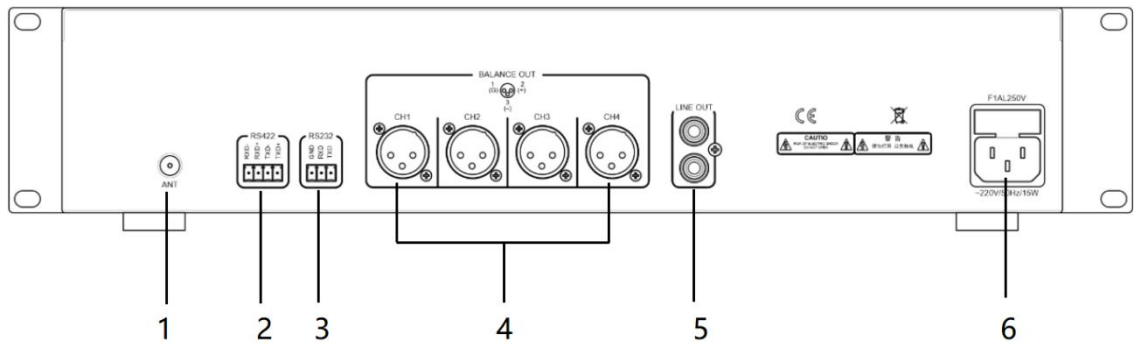
Specifications

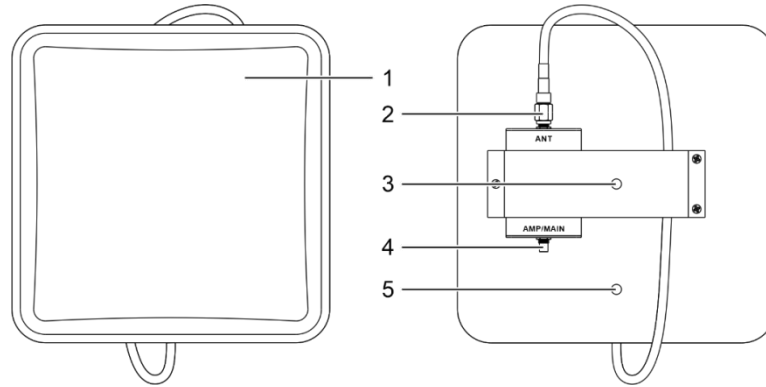| Model		D6850	D6859
Frequency Response		80Hz-16kHz (±3dB)	
LINE Output Voltage		1000±100mV	
Channel BALANCE Output Voltage		1000±100mV	
SNR		≥70dB	
Total Harmonic Distortion		＜0.5%	
Communication Interface		RS232 / RS422	
Power Input		AC220V/50Hz	
Signal Booster	Modulation Method	DSSS Frequency Hopping	
	Power Supply Mode	Powered by the Host	
	Transmission Power	18dBm	
	Receiving Sensitivity	-88dBm	
	Radiation Range	40 Meters in a Direct, Unobstructed Line	
	Product Dimension (L×W×H)	192×192×48mm	
	Net Weight	0.5kg	
Product Dimension (L×W×H)		483×320×88mm	
Package Size (L×W×H)		530×410×233mm	
Net Weight		5kg	
Gross Weight		6.5kg	

Front/Rear Panel

1. Power Switch
2. Power Indicator Light
3. 4.3-Inch Touch Screen

1. Antenna Interface
2. RS422 Interface: For centralized control of cameras.
3. RS232 Interface: Connects to the central control system.
4. 4-channel balanced audio output interface: Supports independent output, compatible with audio processors;
5. Line mixed output interface: Can be connected to preamplifiers, mixers, or professional power amplifiers;
6. AC220V Power Input Interface.

1. Panel antenna;
2. Signal booster and panel antenna interface, for connecting the panel antenna cable.
3. Mounting Holes
4. The signal booster is connected to the antenna interface on the back panel of the host using the included extension cable.
5. Mounting Holes

The specifications will be subject to change without prior notice.