

D6201

Intelligent Digital Conference System Host



Description

Built on an ARM9 embedded platform, this Intelligent Digital Conference System integrates high-performance DSP audio processing and hi-fi circuitry to deliver seamless digital control, premium sound, and visual operations. It supports full-session recording alongside PC remote management and wireless control via Android tablets.

Delivering an all-in-one suite of functions—including discussion, voting, sign-in, and auto camera tracking—the system consists of a main host, expansion units, conference terminals, and control software. Utilizing a hand-in-hand daisy-chain topology with 8-core cables and "+"-type connectors, it ensures effortless installation, rock-solid reliability, and superior anti-interference performance for modern conference setups.

Features

- Supports up to 128 conference units directly, expandable to 4,096 units via expansion controllers (external power supply required).
- Equipped with 8-core aviation connectors supporting "daisy-chain" topology for fast, reliable, and error-free installation.
- Flexible restriction on simultaneous active microphones, selectable from 1 to 6 units (1/2/3/4/5/6).
- Comprehensive data management suite supporting electronic voting, central microphone control, and participant tracking.
- Integrated 4.3-inch LCD color touchscreen providing an intuitive graphical control interface
- Feature-rich GUI displays system functions, configuration parameters, and unit operational statuses clearly at a glance.
- Responsive touch-screen operation delivers smooth and user-friendly human-machine interaction.
- Configurable screen timeout settings enable automatic display sleep for energy-saving operation.
- Native dual-language system software supporting seamless switching between Chinese and English

displays.

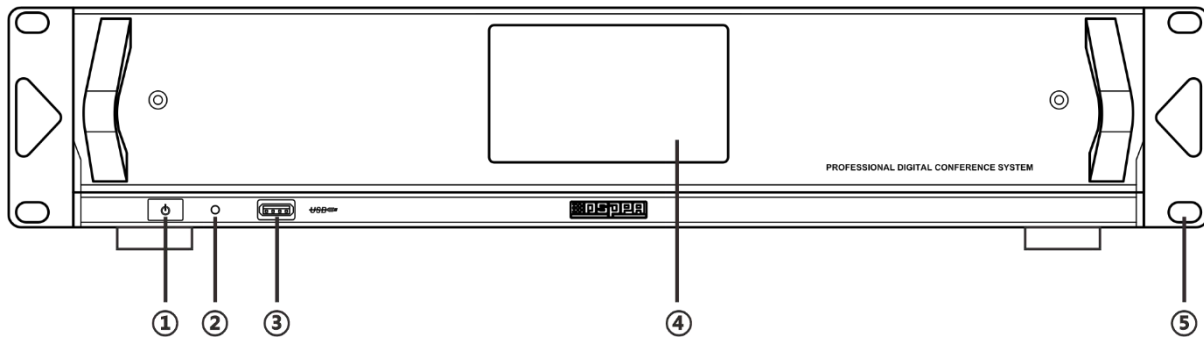
- Supports up to 30 configurable VIP units allowed to speak freely within active limits without conference mode restriction.
- Offers 5 operational modes: FIFO (First In First Out), NORMAL, VOICE (Voice-Activated), FREE, and APPLY.
- Integrated DSP digital audio processor featuring high-pass filtering (HPF) and multi-band equalization (EQ) for crystal-clear sound.
- Supports full-process conference audio recording with selectable automatic and manual recording modes.
- Integrated unit diagnosis and line detection supporting both automatic and manual scanning modes.
- Features customizable speech timing and countdown reminders, with adjustable speaking time limits or unconstrained mode.
- Supports scheduled automatic rebooting to ensure long-term system stability and maintenance efficiency.
- Integrated auto camera tracking system with 6 × BNC interfaces and 6 × HDMI interfaces for automatic video switching.
- Equipped with 1 × RS232 port for third-party central control systems and 1 × RS422 port for centralized camera control.
- Heavy-duty 8-core DIN aviation sockets dedicated to system expansion and multi-channel conference unit connections.
- RCA connectivity: 2 × AUX inputs (media players), 2 × AUX outputs (amplifiers), and 2 × Emergency Alarm audio inputs.
- XLR balanced audio output wired in parallel with RCA LINE OUT for noise-free connection to professional power amplifiers.
- Built-in +5V alarm trigger signal input interface, working with alarm audio input for emergency broadcast override.
- Standard RJ45 Ethernet port supporting TCP/IP protocol for full system control and management via PC software.
- Robust full-metal enclosure with reinforced grounding design, providing Contact Discharge 10 kV and Air Discharge 15 kV protection.
- Premium industrial design in a standard 2U chassis, perfectly suited for installation in 19-inch equipment racks.

Specifications

Model	D6201
LINE Input Voltage	250 (±30) mV
ALARM Input Voltage	250 (±30) mV
LINE Output Voltage	1 (±0.1) V
BALANCE Output Voltage	1 (±0.1) V
Frequency Response	20 Hz – 20 kHz (±3 dB)
Signal-to-Noise Ratio	≥ 80 dB
Total Harmonic Distortion	< 0.3%
Output Power	≤ 110W / 3 channels, 24V
Maximum Power	320W
Static Power Consumption	15W
Control Interfaces	RJ45, RS232, RS422
Power Supply	AC 220V ~ 50Hz / 320W
Unit Dimensions (L × W × H)	484 × 385 × 88 mm

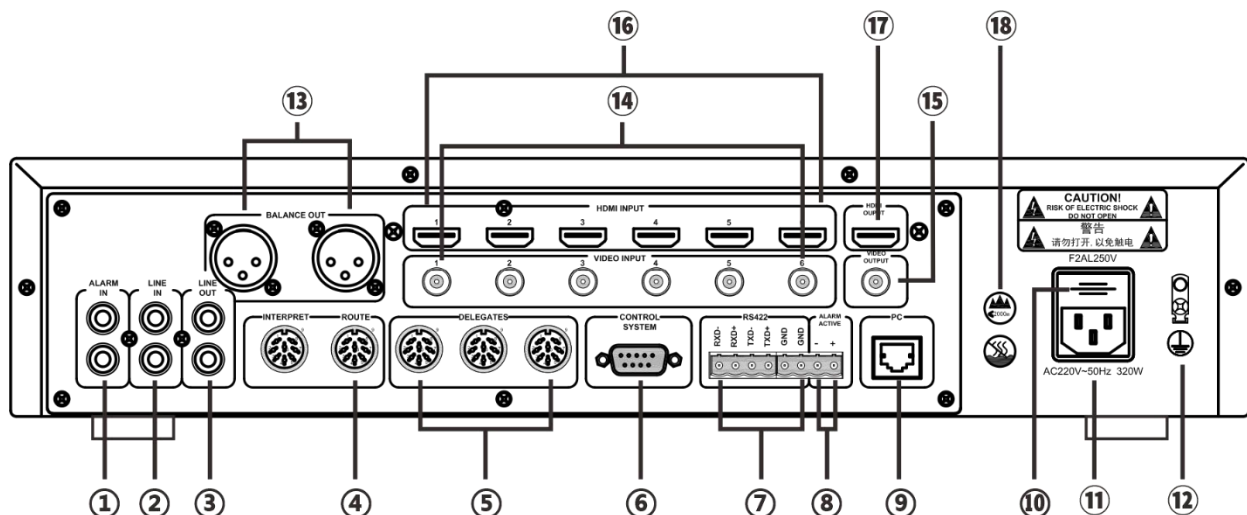
Front / Rear Panel

Front Panel



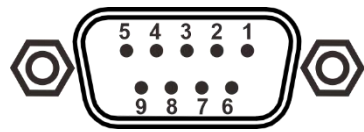
1. Power Switch: Press to turn on; press again to release and turn off.
2. Power Indicator: Lights up when the power is on; off when the power is off.
3. USB Port: Used for connecting a USB flash drive for recording; also supports USB mouse operation.
4. 4.3-inch LCD Touch Screen: Displays all function icons and operation menus; settings can be configured via touch operation.
5. Mounting Holes: Used for securing the unit in a rack.

Rear Panel



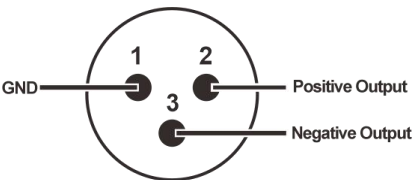
1. Alarm Audio Input (ALARM IN): Connects alarm audio signals from the fire control center, linked with the alarm trigger signal.
2. Line Input (LINE IN): Connects audio sources or mixers to provide line-level audio signals.
3. Mixed Audio Output (LINE OUT): Connects to a power amplifier; outputs mixed signals including line input, alarm audio, and microphone audio.

- 4. Expansion Port (ROUTE): Used to connect the conference host with expansion hosts, transmitting audio and communication signals.
- 5. Conference Unit Outputs (DELEGATES 1–3): Three ports supporting up to 128 conference units in total.
- 6. Central Control System Interface (CONTROL SYSTEM): Connects to a central control system for integrated conference control (e.g., IR-based systems). The RS-232 serial port uses a 9-pin female connector (DB9/F). Pin definition is as follows:



Pin	1	2	3	4	5	6	7	8	9
Description	N/U	TXD	RXD	N/U	GND	N/U	N/U	N/U	N/U

- 7. Camera Control Interface (RS422): Used for camera control signals; cameras are connected in a daisy-chain configuration.
- 8. Fire Alarm Trigger Input (ALARM ACTIVE): External +5V signal triggers the alarm function. All conference unit screens display “ALARM” and all microphones are turned off. When the +5V signal is removed, the system automatically returns to its previous state.
- 9. Ethernet Port (PC): Supports remote control via TCP/IP network; also supports wireless control via Wi-Fi using a tablet.
- 10. Fuse Holder: F3.15AL 250V fuse. Replace only with the same specification. Repeated fuse failure indicates a device fault and must be resolved before replacement.
- 11. Power Input: AC 220V / 50Hz / 320W.
- 12. Ground Terminal: Connects the host to earth ground to prevent electric shock or damage caused by leakage or static electricity.
- 13. XLR Balanced Audio Output: Paralleled with the LINE OUT interface; provides balanced audio output. Signal definition for the 3- pin XLR male connector is shown in the diagram.



3-pin XLR male connector

- 14. 6 × BNC Camera Inputs: Connected via coaxial cables. All connected cameras must be of the same model (recommended to use matching products).
- 15. Video Output: Connects to projectors or display devices to output camera video to a large screen.
- 16. 6 × HDMI Camera Inputs: Connected via HDMI cables. All connected cameras must be of the same model (recommended to use matching products).
- 17. HDMI Video Output: Connects to projectors or display devices to output camera video to a large screen.
- 18. Marking: Indicates the device is suitable for safe operation at altitudes below 2000 meters and in non-tropical climates.