Specification

Product Name: Multi-functional Conference Host

Product Model: HY-6500MSR

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Production Department: Product Department

Huain (Zhuhai) Digital Technology Co., Ltd.



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1. Product Overview

1.1 Product Image



1.2 Dimensions and Weight

Main Unit Dimensions (LxWxH)	483×320×90mm	
Packaging Dimensions (LxWxH)	570×430×175mm	
Weight	Net Weight: 4.5 kg; Gross Weight: 5.8 kg	
Packaging Method	Foam + Carton	

1.3 Packing List

Serial Number	Name	Number	Unit
1	Controller	1	Set
2	Power Cable	1	Unit
3	Audio Cable	1	Unit
4	Fuse	2	Piece
5	RS232/485 Converter	1	Piece



6	8-pin 10-meter Male-Female Cable	1	Piece
7	Warranty Card, Certificate of	1	Sheet
/	Conformity		

2, Product Specifications and Parameters

2.1 Product Description

Fully digital conference technology, compliant with IEC60065 international standards, utilizing DSP/DDOV digital processing and transmission technology to overcome long-distance transmission attenuation issues; fully digital DSP audio processing technology with an audio sampling rate of up to 48KHz and a frequency response range of 20Hz-20KHz; the system is equipped with a 2.8-inch LCD display screen and control buttons, employing ID addressing method, allowing for customizable conference unit numbering; the panel can control auxiliary input volume, MIC input volume, conference unit output volume, speaker volume, master volume, and the equalization adjustment of treble, midrange, and bass

2.2 Functional Parameters

- 1. Uses DSP/DDOV digital processing and transmission technology, compliant with IEC60065 international standards:
- 2. Equipped with a 2.8" LCD color display, allowing system setup without a computer, increasing installation and debugging efficiency;
- 3. Utilizes high-fidelity lossless audio transmission technology with a 48KHz audio sampling rate and a frequency response of 20Hz-20KHz;
- 4. Built-in DSP digital audio module with adaptive feedback suppression, digital equalizer, and automatic gain functions to maximize elimination of interference, distortion, and crosstalk;
- 5. The system uses ID addressing control, allowing customizable conference unit numbering to effectively avoid ID address conflicts;
- 6. Features 6 unit output interfaces, including 4 8-core and 2 RJ45 network interfaces, supporting connection of up to 180 units;



- 7. Supports simultaneous connection of 256 conference extension hosts, allowing up to 65,535 conference units via extension hosts;
- 8. Expandable with USB recording functionality to record all audio content of the conference, supporting up to 2000 hours of continuous recording;
- 9. Equipped with intelligent automatic protection technology to ensure uninterrupted conference audio signals in case of non-power faults in the conference host;
- 10. Uses 8-core DIN shielded cables to effectively prevent and avoid electromagnetic interference, ensuring no data loss;
- 11. Supports multiple connection methods, including daisy-chaining, junction boxes, T-type daisy-chaining, and ring daisy-chaining;
- 12. Features FIFO mode, allowing customizable settings for the number of speakers, with 1 to 6 speakers allowed at the same time;
- 13. Can be set to free discussion mode, where all conference units can freely speak without quantity restrictions;
- 14. Supports various speaking modes through PC conference management software, including application speaking mode, queuing mode, computer permission mode, and timed speaking mode;
- 15. Built-in camera tracking card, supporting VISCA and PELCO-D/P control protocols, allowing camera tracking setup, saving, and automatic recall without video tracking software or control keyboards;
- 16. Built-in 4x4 SD video matrix switcher with 3 video loop-out functions, easily managing multiple video signals;
- 17. Automatically switches HD camera signals when connected to an HD video decoding box and matrix;
- 18. Built-in electronic voting function, including sign-in, voting, election, and rating data management functions;
- 19. Supports key sign-in and IC card sign-in, with sign-in time settings and real-time dynamic display of sign-in data;
- 20. Supports both named and anonymous voting, with all voting data exportable and printable in text and graphics;



- 21. Expandable simultaneous interpretation function, supporting 8, 16, 32, and 64 channels;
- 22. Features "hot swap" capability for live line connection, ensuring system operation safety and stability;
- 23. Can connect to other condenser or dynamic microphones, providing more options for users;
- 24. Panel control for auxiliary input volume, MIC input volume, conference unit output volume, speaker volume, master volume, and equalizer adjustment for treble, midrange, and bass;
- 25. Panel with 32-level volume indicator lights, showing red when the volume is abnormal or overloaded;
- 26. Supports simultaneous connection of up to 8 chairman units, with the chairman units having priority functions and the ability to turn off other speaking delegate units;
- 27. Through software, delegate units can be set as VIP units, allowing unrestricted and free speech without being affected by other delegate units;
- 28. Strong resistance to mobile phone interference, ensuring no noise during calls and normal use even in venues with mobile signal blockers;
- 29. Multi-functional conference host connects to PC and programmable central control system via RS-232 for secure and stable control;
- 30. Built-in international AC100V~240V power supply and voltage stabilization system, ensuring safe and stable use under unstable voltage conditions.



2.3 Technical Parameters

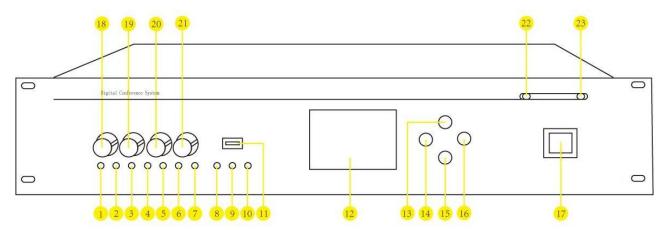
Working Power Supply	AC100~240V 50/60Hz
Power Consumption	Static 10W, Maximum 200W
System Capacity	180 units per standalone unit, expandable up to 65,535 units
Display Screen	2.8 inches, 128×64 graphic LCD display
Display Menu	Chinese, English (customizable)
Frequency Response	20Hz~20KHz
Signal-to-Noise Ratio	>96 dB
Dynamic Range	106dB
Total Harmonic Distortion	< 0.05%
Output Impedance	47 ΚΩ
Audio Input	RCA×2 +20dB XLR×1 +10dB
Audio Output	Auxiliary Output RCA×2 +20dB Main Output RCA×2 +20dB
Video Input	RCA×3
Video Output	RCA×5
Video Output Level	RCA×5 1.08V p – p
Video Output Impedance	75Ω
Video Bandwidth	150MHz (-3dB), fully loaded
Video Control	RS-232 interface
Recording Function	USB recording
Simultaneous Interpretation Function	Depending on model (8/16/32/64 channels available)
Control Interface	9PIN, D-type female connector



3. Product Introduction

3.1 Product Interface Introduction

Front Panel

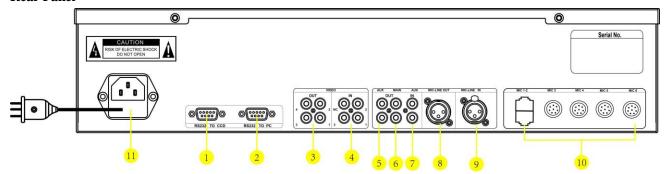


- 1, Main Volume Equalization Adjustment: Main volume output bass adjustment
- 2, Main Volume Equalization Adjustment: Main volume output midrange adjustment
- 3, Main Volume Equalization Adjustment: Main volume output treble adjustment
- 4. Speaker Equalization Adjustment: Conference unit built-in speaker bass adjustment
- 5, Speaker Equalization Adjustment: Conference unit built-in speaker midrange adjustment
- 6, Speaker Equalization Adjustment: Conference unit built-in speaker treble adjustment
- 7, Speaker Volume Control: Conference unit built-in speaker main volume adjustment 8
- , Recording Button: Start recording button
- 9, Stop Button: Stop recording button
- 10, Play Button: Play recording button
- 11, USB Interface: USB recording interface (optional feature)
- 12, LCD Display: 2.8-inch LCD display, dynamically displaying conference information
- 13, Four-Directional Operation Button "Up": Multi-functional button
- 14, Four-Directional Operation Button "Left": Multi-functional button
- 15, Four-Directional Operation Button "Down": Multi-functional button
- 16, Four-Directional Operation Button "Right": Multi-functional button
- 17, Power Switch Button: When the power switch is set to the 1 position (up), it represents the power-on state; when set to the 0 position (down), it represents the power-off state



- 18, AUX Auxiliary Volume Knob: Adjust the volume of the AUX auxiliary input
- 19, Conference Unit Volume Control Knob (DESK): Adjust the volume of the conference unit
- 20, MIC Input Volume Knob: Adjust the volume of the MIC/LINE input
- 21, Main Volume Control Knob (MAIN): Adjust the main output volume of the conference host
- 22, Audio Signal Indicator Light: When the red indicator light is on, it indicates that the audio amplitude is too high
- 23. Power Indicator Light: When the conference host is powered on, the red indicator light will be on constantly

Rear Panel



- 1. RS-232 Interface (CCD): Connects to the camera control port or central control port.
- 2. RS-232 Interface (PC): Connects to a PC for computer control.
- 3. RCA Video Signal Output Interface (VIDEO OUT): Video output interface with three video loop-through channels.
- 4. RCA Video Signal Input Interface (VIDEO IN): Video input interface.
- 5. RCA Audio Output (AUX OUT): System audio output interface.
- 6. RCA Main Audio Output (MAIN OUT): System main volume output interface.
- 7. RCA Audio Input (AUX IN): System audio input interface for connecting third-party audio sources.
- 8. MIC Audio Output (MIC/LINE-OUT): Balanced main audio output, system main volume balanced output interface.
- 9. MIC Audio Input (MIC/LINE-IN): Balanced audio input interface for connecting third-party audio sources.
- 10. Six-Channel Unit Interface: 2 network ports + 4 eight-pin interfaces for connecting conference



units, can be mixed.

11. Power Interface: Connects to AC100~240V 50/60Hz power supply, with a spare fuse.

3.2 System Connection Diagram

