



### Feature:

1. Adopts Ai5G full-digital network and audio technology, featuring proprietary ring network transmission and audio clock synchronization technology, achieving end-to-end audio latency of less than 5ms and supporting uncompressed 48KHz real-time audio transmission.
2. Equipped with intelligent interference avoidance, based on IEEE 802.11n (WiFi6) standard, compatible with 2.4GHz and 5GHz dual bands. Offers 24 adjustable channels with automatic/manual optimization. Built-in AP scanning function monitors surrounding wireless APs and dynamically selects the best channel.
3. Supports up to 5300 wired and 300 wireless conference units. Allows simultaneous activation of up to 24 units. Up to 16 wired + 8 wireless units can speak simultaneously.
4. Standard 2U rack-mount design, uses Cat6 cables to transmit 64-channel audio and control signals. Fully supports hybrid wired and wireless deployments for flexible applications.
5. Equipped with 4.3" capacitive touch screen for parameter configuration, real-time monitoring, and data interaction.
6. Supports USB flash drive recording with smart noise reduction. Physical button on the panel for one-touch recording start/stop. LED status indicators display recording status in real time.
7. Built-in headphone monitoring interface compatible with 40mW headphones for real-time audio monitoring.
8. Panel includes a physical button to disconnect all wireless units instantly for emergency signal termination.
9. Panel includes LED indicators for recording, power, AP, and other statuses.
10. Supports multi-language switching: Chinese, English, Russian, French.
11. Multiple conference management modes: FIFO, Normal, Voice-Activated, Request-to-Speak; optional modes include Smart Limit, Open Mode, Chairman Only.
12. Compatible with both wired and wireless units; supports 8 wired and 6 wireless microphones speaking simultaneously.

13. Built-in high-performance DSP processor: 10-band EQ output, 16-channel matrix with delay, volume, and EQ control per channel.
14. 16-channel role-separated output mode, each wired/wireless unit can output audio independently. Supports integration with speech-to-text devices.
15. 16-channel simultaneous interpretation output; interpreter channels can be independently routed for recording or monitoring.
16. 16-channel phased output mode with internal nx16 audio matrix for grouped, proportionally mixed outputs.
17. Supports up to 63+1 channels of wired simultaneous interpretation.
18. TCP/IP network-based architecture, supports both C/S and B/S structures. Remote device management via dedicated control software or web browser.
19. Software control of matrix parameters (EQ, volume, mic sensitivity), output modes, mic synchronization, role-separation host, etc.
20. PC software can display wireless mic battery level, WiFi status, and allows one-click shutdown of all wireless units.
21. Supports PC-based sign-in and voting (election, rating, satisfaction, custom options), with visualized data analysis.
22. Supports sending up to 32-character user names to mic units for display.
23. Sign-in and voting can also be done without a PC.
24. 4 × 6-pin aviation connectors for digital wired mic units with hot-plug support.
25. Optional ring hand-in-hand connection expansion. In case of failure in any unit, others continue working normally.
26. Optional voice-to-text transcription integration.
27. Optional built-in AFC feedback suppression.
28. Optional master/slave backup mode with automatic switchover upon failure.
29. Optional 5G conference center processor expansion (via Ethernet & RS232), supports 16 wired + 8 wireless speakers simultaneously with auto-mixing, gain control, feedback suppression.
30. Optional conference system management APP for mobile control of mic status, sign-in, voting, notifications, and one-click mic shutdown.
31. Host supports registration function. API available for integration with O&M management platforms for centralized control and monitoring.
32. Audio Inputs: 1 × RCA, 2 × Phoenix (balanced), for BGM or remote conferencing audio.

- 33. Audio Outputs: 1 × XLR, 1 × RCA, 16 × Phoenix, 1 × coaxial, 1 × optical.
- 34. Built-in ALARM interface for fire alert triggering; prompts warning message on host and mic units for emergency evacuation.
- 35. Built-in RS-232 and RS-485 camera control ports; supports PELCO-P, PELCO-D, VISCA protocols for 10-camera tracking.
- 36. Supports 4x4 HDMI seamless video tracking switcher with up to 4 camera inputs.

### ► Specification:

| Item                      | Specification                   |
|---------------------------|---------------------------------|
| Frequency Response        | 80Hz – 16KHz                    |
| Signal-to-Noise Ratio     | >80dB(A)                        |
| Dynamic Range             | >80dB                           |
| Total Harmonic Distortion | <0.05%                          |
| Display                   | 4.3-inch full-color touchscreen |
| Mic Interface             | 4 × 6-pin aviation sockets      |
| Wired Mic Connection      | Cat6 cable                      |
| EXTENSION Port            | For system expansion units      |
| AP Port                   | For wireless AP connection      |
| PC Port                   | For PC software or web control  |
| Power Supply              | AC 220V, 50/60Hz                |
| Power Consumption         | 350W                            |