



Functional description:

1. Adopts 5G full digital network technology, proprietary digital ring network technology and audio clock synchronous transmission technology. Audio delay is less than 5ms, with uncompressed audio transmission at 48K sampling rate. Supports dual-system and dual-backup operation simultaneously to ensure smooth conference.
2. Equipped with adaptive anti-interference avoidance technology for stronger anti-interference capability. Based on Wi-Fi 6 complying with IEEE 802.11n standard, supports both 2.4GHz and 5GHz with 24 available channels. Features AP channel scanning function to scan and view on-site AP names and wireless channel usage, supporting manual selection or automatic configuration of high-quality channels.
3. The system supports up to 5300 wired conference units and 300 wireless conference units, allowing 24 microphones to speak simultaneously. Maximum speaking capacity: 16 wired microphones and 8 wireless Wi-Fi microphones (requires matching microphone processor).
4. The host supports up to 7 microphone management modes: 4 standard modes: FIFO, NORMAL, VOICE, APPLY; 3 optional modes: Intelligent Limit, Open Mode, Chairman Only. Number of simultaneous speakers can be set arbitrarily from 1 to 16.
5. The system supports conference sign-in, voting, election, rating, satisfaction survey, custom functions and more. With PC software, extended voting modes are available: (1) Voting: Approve / Abstain / Reject (2) Election: 1 / 2 / 3 / 4 / 5 (3) Rating / Satisfaction: -- / - / 0 / + / ++ Custom voting text (2 - 5 items) can be sent from PC software to the microphone display.
6. PC software supports sending names up to 32 characters to the microphone display.
7. Supports system management via Linux, Windows, Android, iOS, HarmonyOS, for viewing microphone status and real-time automatic online detection.
8. Supports seamless data integration and display of sign-in, voting, service functions for wired and 5G Wi-Fi conference units on the same software platform.
9. Supports arbitrary grouping and mixing of wired and 5G Wi-Fi conference units with seamless output.
10. Equipped with a 4.3-inch full-color touch screen for parameter setting, viewing and full touch control.
11. Has 4×6-core aviation ports for connecting digital wired conference units.
12. Has 4×RJ45 ports for connecting AP transmitters, expansion hosts / microphone processors, PCs, plus 1 reserved Dante network audio transmission port.
13. Has 1×RS-232 and 1×RS-485 camera tracking control interfaces, supporting PELCO-P, PELCO-D, VISCA protocols. Controls up to 10 HD cameras for auto camera tracking.
14. Has 1×RS232 central control interface for microphone on/off, priority, volume, power control, and supports secondary development via SDK.
15. Has 1×ALARM fire alarm linkage trigger interface, compatible with smoke detectors and fire systems. Alarm interface pops up on host and microphones (with 5-inch screen) to prompt emergency evacuation.
16. Audio input: 1×XLR, 1×RCA for BGM, remote conference audio and other external sources.
17. Audio output: 1×XLR, 1×RCA, 1×coaxial, 1×optical for easy audio expansion.
18. Equipped with 1×ID setting DIP switch.
19. Has 1×USB port for U-disk recording with advanced noise cancellation. One- key recording via physical button with status indicator.
20. Has 1×3.5mm headphone monitor output, compatible with standard 40mW headphones.
21. Supports ring hand-in-hand expansion with automatic online detection and recovery. Fault of any single wired unit does not affect other units.
22. Supports microphone expansion boxes for network extension and power supply, allowing T-type or π-type connection via switches.
23. Built-in high-performance DSP, supporting 10-band EQ adjustment for audio output.
24. Adopts TCP/IP protocol, supports both C/S and B/S architecture, controllable via PC software or browser. PC supports importing floor plans for simulated seat layout.
25. PC software displays battery level, Wi-Fi signal of wireless units; supports one- key shutdown of all wireless units or individual control.
26. Supports mobile APP for conference management: unit control, sign-in, voting, service information, one- key mute of wireless microphones.
27. Host panel supports one- key shutdown of all Wi-Fi wireless units via physical button or touch screen.
28. System pre-installs 4 languages: Chinese, English, Russian, French, switchable per conference needs.
29. Supports simultaneous interpretation (SI), up to 63+1 wired SI channels.
30. Operates without PC: speaker limit, sign-in and voting functions still available.
31. Supports connection to speech-to-text server for real-time transcription.
32. Optional dual-host hot backup: automatically switches to slave host if master fails or loses power

33. Supports hot-plug of system units; function automatically restored after reconnection.
34. Supports mixed use of wired and wireless units with identical appearance for easy seat expansion.
35. Optional built-in howling suppression function.
36. Standard 2U chassis design. One CAT6 cable transmits 64 audio channels and data. Supports both wired and wireless conference.
37. Supports host registration with flexible duration; registration status displayed on screen.
38. Panel LEDs indicate recording, power, AP status. Display also shows recording status.
39. Works with conference microphone processor via Ethernet for audio transmission, supporting 16 wired + 8 wireless digital audio streams with auto-mixing, AGC, AFS.
40. Open API interface provides data ports for IP, online status, mode, unit status, configuration. Compatible with integrated O&M platform for centralized management.
41. Microphone capacity: Wired ≤ 5300 ; Wireless ≤ 300 .

Technical specifications:

Microphone capacity	Wired microphone ≤ 5300 ; Wireless microphone ≤ 300
Frequency response	80 to 16 kHz
Signal-to-noise ratio	$>80\text{dB(A)}$
Dynamic Range	$>80\text{dB}$
Total Harmonic Distortion	$<0.05\%$
Main power supply	Supports wide-range power supply: 100-240 VAC
EXTENSION Interface	Connecting Conference System Expansion Devices
AP Ethernet Port	Connect to a wireless access point
PC Ethernet port	Connect to the computer
Static power consumption	30W
Output Power Consumption	150W
Wired Microphone Connection Method	Specialized cable
Touchscreen control	4.3-inch full-color touchscreen
UNIT Interface	4 x 6-pin aviation connectors
Product Dimensions	483*350*89mm
Equipment Weight	5.10kg