



Functional description:

1. Inputs & Outputs:

4-channel true diversity wireless microphone inputs (microphones optional), 2 Bluetooth inputs, 2 × 6.35mm TRS microphone inputs, 4 LINE inputs, 2 RCA inputs, 2 USB sound card inputs, 2 network audio inputs (optional), 2 × 6.35mm TRS outputs, 4 LINE outputs, 2 RCA outputs, 2 network audio outputs (optional), 2 USB sound card outputs, and 2 power amplifier outputs. Maximum input/output level: **17 dBu (5.48 Vrms)** without distortion.

2. 48V Phantom Power available on input channels CH1 and CH2.

3. Microphone Preamplifier on CH1 and CH2 with adjustable gain from **0–40 dB in 1 dB steps**.

4. Stereo USB sound card function supporting playback and recording.

5. 1 USB port for PC software control and USB sound card transmission.

6. 1 RS232 port and 1 RS485 port for PC software control and central control system integration.

7. 1 network port for PC software control and central control system, allowing multiple devices to be managed simultaneously via network connection.

8. Dual color LCD displays supporting device name configuration, presets, device IP, input volume, output volume, Bluetooth connection, firmware version display, etc.

9. Advanced DSP functions including:ANC (Noise Cancellation), AFC (Feedback Suppression), AEC (Echo Cancellation), AGC (Automatic Gain Control), AUTO MIX, MATRIX MIX, Noise Gate, PEQ (Parametric Equalizer), Delay, High/Low Pass Crossover, Compressor, and Limiter.

10. 8-band PEQ for input and 8-band PEQ for output.

11. Delay processor of ≥2000 ms for each input channel and ≥2000 ms for output channels.

12. Voice activation per input channel (camera tracking), supporting camera control protocols **PELCO-D, PELCO-P, and VISCA**.

13. One-click switching between free matrix mode and bridge mode.

14. 60 preset memory locations.

15. Archive lock function to hide parameter settings and ensure project technical security.

16. Built-in power amplifier:2 × 300W @ 8Ω, 2 × 450W @ 4Ω, Bridged: 1 × 900W @ 8Ω

17. Integrated design: DSP audio processor + 2-channel power amplifier + support for 4 wireless handheld microphones (microphones optional).

18. Group tuning function:Multiple devices can be grouped and managed. One device can be set as the master unit, synchronizing DSP parameters (Input: AGC, delay, gain, phase, high-pass, low-pass, noise gate, PEQ; Output: compressor, delay, gain, phase, high-pass, low-pass, limiter, PEQ) to other devices within the same group.

19. Built-in Bluetooth receiver module allowing direct MP3 playback via smartphones or laptops, with DSP processing available for Bluetooth channels.

Real-time amplifier monitoring:

20. Software can monitor amplifier channel temperature, limiter power, voltage, current, and impedance in real time.

21. 5-level noise reduction:2 levels of traditional noise reduction, 3 levels of AI noise reduction, Adjustable from weak to strong.

22. Two 2-inch full-color LED displays:Display 1: amplifier status information, Display 2: wireless microphone status and pairing.

23. Supports on-screen display of amplifier channel status.

24. 1 RS232 control port supported.

25. 1 RS485 control port supported.

26. 1 USB control port supported.

27. High-efficiency, energy-saving power amplifier module.

28. Amplifier module features: high efficiency, high power density, and low heat generation.

29. Amplifier output overload protection.

30. Amplifier output short-circuit protection.

31. Amplifier output DC protection.

32. Limiter, fault, current, voltage, and temperature indicators supported.

Applications:

- Conference Rooms
- Lecture Halls
- Training Centers
- Government Meeting Rooms
- Command & Control Centers
- Auditoriums
- Hotels & Banquet Halls
- Educational Institutions