



Functional description :

1. 4-channel XLR (balanced) and TRS (unbalanced) composite plug signal inputs, with independent volume control and 48V phantom power supply for each microphone channel.
2. 4-channel independent output via XLR connectors . The fourth channel can be switched to a mixed output mode via a physical switch, combining all audio signals into a single output.
3. 1 USB input and Bluetooth input. Automatically detects and plays audio files from inserted USB drives . Choose between USB playback mode and Bluetooth mode.
4. 1 -channel 3.5mm (with digital isolation), 1 set of RCA line inputs, with independently adjustable line input volume;
5. 1 -channel RCA line outputs, transmitting USB, Bluetooth, and line-in signals;
6. Utilizing an adaptive environmental feedback suppression algorithm, a high-speed floating-point digital audio processor, and advanced subband noise reduction technology, it rapidly and automatically eliminates feedback and background noise entirely.
7. Built-in adaptive dynamic noise filter effectively suppresses background noise in the environment without affecting voice signal transmission;
8. System intelligent bidirectional level control technology delivers clear, consistent, and uniformly amplified voice output, maintaining natural speech intonation, vocal clarity, and a comfortable listening experience. Gain enhancement ranges from 8 to 15 dB. Microphone pickup distance: 0.5 to 1 meter.
9. Built-in 24-bit A/D and D/A conversion, 24-bit DSP processor, 96 kHz high-speed sampling, utilizing high-speed floating-point operations;
10. One-touch smart setup eliminates manual calibration. Regardless of changes in room location, temperature, humidity, or decor, the system requires no acoustic field tuning upon installation.
11. Keyboard Lock Function: After the administrator completes device debugging, the panel keys can be locked to prevent unauthorized operation by non-administrators .
12. Supports switching between Chinese and English menus;
13. Features a 2-inch color display for showing parameter status;

Technical specifications:

Input Impedance	Balanced 22K Ω
MIC Max Input Level	55mV-140mV (RMS)
Line Input Level	0.775V (RMS)
Output Impedance	Balanced 150 Ω , Unbalanced 300 Ω
Max Output Level	4.5V (RMS)
Dynamic Range	>100dB (A-weighted)
THD+N	> -88dBu
Bypass Frequency Response (± 1 dB)	30Hz-20KHz
Feedback Suppression Frequency Response (± 1 dB)	50Hz-18KHz
Noise Floor	<1mV
Power Supply	AC90-240V 50-60Hz
Power Consumption	<20W
Dimensions (W×D×H)	480 × 220 × 44 mm
Gross Weight	3.8 kg