



Description

It is a high-performance audio processor with 16 analog balanced inputs and 16 analog balanced outputs. It is mainly used in the scenarios of analog microphone sound reinforcement and multi-channel sound source mixing, which can meet the application requirements of sound reinforcement systems in conference rooms, courts, auditoriums, multipurpose halls, classrooms, performance venues and other places. Integrated dynamic range control (DRC), automatic gain control (AGC), auto feedback control (AFC), adaptive noise reduction (ANS), adaptive echo cancellation (AEC), audio filters (GEQ, PEQ, crossover) and other functions. It is mainly used in various professional sound reinforcement scenarios.

Feature

- * Adopting 1U rack type and high-quality 1.0mm galvanized steel plate, which has a stable structure; superior heat dissipation design and excellent heat dissipation by the ball fan.
- * Rich audio processing functions: input processing includes input module, input equalizer, expander, compressor, automatic gain, ducker, mixing processing includes matrix mixing and automatic mixing, and output processing includes limiter, output equalizer, delay, and output module, and also has three major audio processing functions: feedback suppression, echo cancellation, and noise cancellation.
- * Support automatic mixing functions, including gain sharing mixing and threshold automatic mixing, which compresses close-range volume to compensate for distant volume.
- * The high- and low-pass crossovers are adjustable in the entire frequency range, the crossover supports three filter types: Bessel, Linkwiche-Rayleigh, Butterworth.
- * Input per channel: 16 balanced microphones/lines, using bare wire interface terminals and balanced connection. Input supports microphone input and line input switching. Each input has 48V phantom power and can be individually configured through PC software.
- * Output per channel: 16 balanced line outputs, using bare wire interface terminals and balanced connection.
- * High-performance DSP processing, 64-bit DSP processor (1GHZ main frequency), providing 32-bit/48KHz excellent high-quality sound.
- * Full-featured matrix mixing, providing users with flexible and simple signal routing operations. The routing path and level can be completed with one button.
- * The panel has a 2-inch IPS true color display, which supports display of device network information, real-time levels, channel mute status, and matrix mixing status.
- * The panel has a USB interface and supports multimedia storage, which can be used for storage, recording or playback.
- * Support 8 scene preset functions and supports flexible import and export of scenes.
- * Support factory reset function.
- * Support device positioning function.
- * Support automatic power-off protection memory function.
- * Equipped with a two-way RS-232 interface for controlling external devices.
- * Equipped with RS-485 interface to realize automatic camera tracking function.
- * Equipped with 8-channel programmable GPIO control interface (customizable input and output).
- * Support channel copy, paste, and joint control functions.
- * Ethernet multi-purpose data transmission and control port can support real-time management of single and multiple devices.
- * Support access to the device through PC software, with built-in management and control software: the software interface is intuitive and graphical, and can work in Windows 7, 8, 10 and other system environments.
- * Support operation control through Android mobile APP software.



Specification

Input channel	Preamplifier, signal generator, 12-band parametric equalizer, input module, input equalizer, expander, compressor, automatic gain, ducker, feedback suppression, echo cancellation, noise cancellation
Output channel	31-segment graphic equalization adjustment, limiter, output equalizer, delay, and output module
Processor	48kHz sampling frequency, 64-bit DSP processor; 32-bit A/D and D/A conversion
Phantom power	DC 48V
Frequency response	20Hz ~ 20KHz
THD + noise	≤0.002% OUTPUT=18dBu/1kHz
SNR	≥110dB@1kHz 24dBu (A-weighted)
Channel isolation	≥100dB@1kHz 24dBu (A-weighted)
Input impedance (balanced)	20KΩ
Maximum output impedance (balanced)	100Ω
Input range	≤+18dBu
Howling searching and suppression methods	Fully automatic wave trap
Notch filter	24 (static points and dynamic points can be configured)
Q value range	10-50
Frequency resolution	1Hz
Howling searching time	0.1—0.5S
FFT length	1024
Sound transmission gain	4—10dB
System gain	0dB
Crossover	With Butterworth, Bessel, Linkwich-Rayleigh three high and low pass filters
Equalizer	31-band graphic equalizer + 12-band parametric equalizer
Display	2-inch IPS true color display, resolution 320×240
Power supply	AC 180V-240V 50-60Hz
Power consumption	≅50W
Working temperature	-10°C ~ +45°C
Working humidity	20%~80% relative humidity, no condensation
Cooling method	Fan forced cooling
Dimension (L×D×H)	484×298.2×45mm
Net weight	3.69kg