

DIGITAL AUDIO PROCESSOR

SR-DSP8 · SR-DSP12 · SR-DSP16

Matrix-mixing DSP audio processor with automatic mixing, AFS / AEC / ANC and a built-in USB sound card.

A dual-core, 32-bit floating-point DSP processor with comprehensive matrix mixing and a built-in automatic mixing console (AM), plus feedback (AFS), echo (AEC) and noise (ANC) cancellation. Every input provides preamplifier, signal generator, expander, compressor and 5-band parametric EQ; every output a 31-band graphic equalizer, delay, crossover and limiter. Controlled from a built-in web page, PC client or multiple platforms, with camera tracking and USB sound-card connectivity for Zoom, Teams and other video conferencing.

8 · 12 · 16 CHANNELS IN / OUT	48k / 24bit SAMPLING	51 dB FRONT-STAGE GAIN	48 V PHANTOM POWER	100 SCENE PRESETS
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1U RACK PROCESSOR

- 8x8, 12x12, 16x16 Dante Card, 2-Channel USB for soft codec Applications
- 1.24bit/48KHz sampling frequency.
- High performance A/D D/A converter and 32-bit floating point DSP processor.



FEATURES

- Comprehensive matrix mixing function, 24bit/48KHz sampling frequency, high-performance A/D D/A converter and 32-bit floating-point DSP processor.
- DSP audio processing, built-in automatic mixing console, including mixing and automatic mixing function (**AM**), mixing component control, feedback cancellation (**AFS**), echo cancellation (**AEC**) and noise cancellation module (**ANC**).
- **Input each channel:** preamplifier, signal generator, expander, compressor, 5-band parametric equalization.
- **Output each channel:** 31-segment graphic equalizer, delay, frequency divider, limiter.
- Test signal generator — sine wave, pink noise, white noise; frequency and level are optional.
- Input phase switch, mute switch, phantom power switch; output mute switch and phase switch for each channel.
- Central control code is randomly generated; power-off automatic protection memory function; one-button reset function.
- Channel copy, paste, joint control functions.
- The same host allows 10 users to manage; device name can be modified.
- Editable preset mode — new, delete, modify, one-key initialization; preset mode can be stored to the computer and one-key recovery.
- The input and output channels can independently set the color, and one-key recovery switch.
- **With camera tracking function**, it can independently adjust the preset position of a camera.
- **Convenient and fast control:** built-in webpage controller, quickly operated on Windows, Android, iOS and other platforms.
- Internet multi-purpose data transmission and control port, supporting real-time management of single and multiple devices.
- Intuitive, concise and easy-to-understand graphical software control interface; works in XP / Windows 7, 8, 10 and other system environments.
- The device does not need a CD — it has its own installation software. One device is for one software version.
- **Expandable USB interface**, supports USB music playback and recording; with USB Sound Card function, connecting to laptop/PC for Zoom, Teams etc. video conferencing. (Above USB functions — only one can be chosen.)
- **Support central command control:** bidirectional RS232 interface, RS485 interface, standard Ethernet control interface, 8-channel programmable GPIO control interface (customizable input and output).
- Support 8~100 groups of scene preset functions.
- **Channel:** 8in 8out, 12in 12out, 16in 16out.

SPECIFICATIONS

	SR-DSP8	SR-DSP12	SR-DSP16
MAIN SPECIFICATION			
USB2.0 recording / playback	Support		
Central Control Instruction Set Generator	Support		
Input Processing	Pre-amplification, signal generator, expander, compressor, 5-band parametric equalization, automatic gain, AM automatic mixing function, AFS, AEC, ANC		
Output Processing	Speaker manager (31-band graphic equalizer, delay, crossover, limiter, high and low channel filters)		
Matrix mixing	Input and output signal matrix mixing, mixing component control		
Automatic camera tracking function	Support		
Scene preset	100 groups of custom settings		
PORT CONFIGURATION			
Analog input channel	8	12	16
Analog output channel	8	12	16
Ethernet control port	1		
RS232 / RS485	RS232: 1 · RS485: 1		
GPIO	8		
Front stage gain	51dB (each level 3dB, total 17 levels)		
Balanced / unbalanced, input/output support	Support		
MIC / LINE, input/output support	Support		
Independent 48V phantom power switch for each channel	Support		
DSP PROCESSING			
AM, AGC, AFS, AEC	✓		
SPECIFICATION			
Sampling Rate	48k@24bit		
Phantom power	48V		
Frequency response	20Hz ~ 20KHz, ±0.3dB		
THD+N	≤0.005% @1k, 4dBu		
Dynamic range	>94dB		
Working power	AC110V-220V, 50Hz/60Hz		
Noise floor	-90dBu		
Size	482 × 258 × 45 (mm)		

SOFTWARE & CONTROL



Windows Platform client software

Our designed PC version control software is the best tool for you to monitor and operate the digital audio processor, which can be used to edit and store scenes (such as meeting mode, artistic performance mode, concert mode, etc.) according to the acoustic characteristics of different functions. The system has a built-in lock-screen function, which can effectively avoid the occurrence of wrong operation.

Web Control

The digital audio processor comes with a B/S architecture server, accessed through a web browser — not only realizing channel control and scene selection, but also directly providing download links of the PC client and platform components.

APPLICATIONS

Video conferencing (Zoom / Teams)

Meeting rooms

Concert

Artistic performance

Camera tracking

Public sound