

DSP48

Loudspeaker Management System

VAL audio

Die Liebe zur Musik



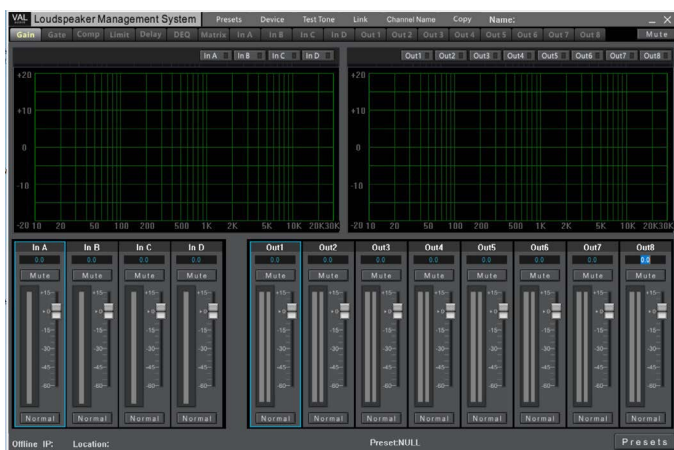
OVERVIEW

VAL audio DSP48 is a cutting-edge networkable loudspeaker management system designed for premium performance and versatility. Equipped with a high-end SHARC DSP and an expanded processing capacity, the DSP48 ensures precise audio management for both complex installations and demanding touring applications.

The system features an intuitive, user-friendly interface, which can be accessed directly from the unit or through the powerful VAL DSP Control Software. Seamlessly integrated with other VAL audio products - including speakers, amplifiers, and microphones - the DSP48 provides superior sound quality, enhanced by custom presets and advanced control features.

Whether you're handling a large-scale project or a live performance, the DSP48 offers unmatched reliability, flexibility, and ease of use, making it the perfect solution for professional audio processing management.

VAL AUDIO CONTROL SOFTWARE



KEY FEATURES

- Premium 4 In x 8 Out Networkable Loudspeaker Management System
- Powered by the ADI SHARC 21489 400MHz 32/40-bit floating-point DSP with a 96KHz sampling rate for pristine sound quality
- Uses ELNA electrolytic capacitors and other renowned audio components to deliver a rich, warm sound experience
- Input Processing Features: Dynamic EQ, Delay, Gain control, Noise gate, High-Pass Filter (HPF) & Low-Pass Filter (LPF), 10 customizable filters per input channel
- Output Processing Features: Comprehensive routing options, Delay and gain controls, HPF and LPF filters (up to 48dB/octave), 10 filters, including PEQ, Shelving, Allpass, and Bandpass, Advanced Peak Stop Limiter and Compressors (adjustable threshold, attack, release, and ratio)
- Integrated signal generator supporting sine, white noise, and noise-splitting functions for testing purposes
- Complete matrix routing for seamless input and output control
- User-friendly VAL DSP Control software for precise audio management (Windows compatible)
- Channel linking and copy functions for effortless setup and configuration
- Full port RF protection ensuring safe and reliable operation under various conditions
- Versatile connectivity with Ethernet, USB, RS232, RS485, and GPIO ports, with open protocol support for third-party integration

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SPECIFICATIONS

Input / Output	4 in x 8 out
THD + Noise	<0.0025%
S/N	>112dBA (A-Weighted)
Frequency Response	+/-0.5dB (20Hz~20kHz)
AD & DA Converters	24bit-96kHz
Max Input/Output Level	+20dB
Parametric Equalization	Input 10-band, Output 10-band
Filter Type	PEQ / Low-Shelf / Hi-Shelf / ALL PASS
Crossover Section HPF/LPF	Butterworth 6/12/18/24/36/48dB per octave Bessel 6/12/18/24/36/48dB per octave Linkwitz-Riley 12/24/36/48dB per octave
Mini fixed Delay	<2ms
Delay	Input and Output Delay up to 1000ms
Power	~220V / 50 Hz
Power Consumption	<20W
Device Presets	User Presets: 23
Dimension (WxDxH)	481mm x 268mm x 45mm
Net Weight	3.6 Kg