

# SP48

## Loudspeaker Management System

VAL audio

Die Liebe zur Musik



### OVERVIEW

The VAL Audio SP48 is a high-end loudspeaker management system, designed to deliver exceptional performance and versatility. Equipped with advanced hardware, expanded processing power, and comprehensive control software, the SP48 is capable of handling the most demanding installations or touring environments.

With a user-friendly interface that can be accessed directly from the unit or through the VAL Control Software, the SP48 makes sound management seamless and efficient. When combined with other VAL Audio products—such as speakers, amplifiers, and microphones—the SP48 ensures superior sound quality and ease of use. Its custom presets and wide array of features provide effortless control, making it ideal for professional applications.

### VAL AUDIO CONTROL SOFTWARE



### KEY FEATURES

- Premium 4 In x 8 Out Loudspeaker Management System for optimal sound control and versatility
- Advanced 24-bit floating-point DSP processing with a 96KHz sampling rate for superior audio fidelity
- Input Processing includes:
  - Dynamic EQ
  - Delay
  - Gain control
  - Noise gate
  - Compressor for precision sound shaping
- Output Processing features:
  - Flexible routing options
  - Delay and gain controls
  - High-Pass (HPF) and Low-Pass (LPF) filters (up to 48dB/octave)
  - 7 filters including PEQ, Shelving, Allpass, and Bandpass for enhanced audio control
  - Peak Stop Limiter with adjustable threshold, attack, release, and ratio settings for speaker protection
- Delay adjustment up to 43.8 meters for perfect synchronization
- Comprehensive Matrix Routing for complete control of inputs and outputs
- Intuitive VAL DSP Control Software (Windows-compatible) with front panel USB access for seamless setup and control

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### SPECIFICATIONS

Input / Output	4 in x 8 out (electronically balanced)
Input Impedance	>10k ohms
Output Impedance	<80k ohms
THD+N	<0.005%
S/N	>100 dBA
Frequency Response	± 0.5dB (20Hz~20kHz)
Max Input/Output Level	+12dBu / +18dBu
Parametric Equalization	Input 30 segments, output 7 segments
Filter Type	PEQ / Low-Shelf / Hi-Shelf / ALL PASS
Maximum delay of each input	420.9984mS
Maximum delay of each output	128.9984mS
Input / Output gain	+12dB to -18dB, step interval 0.1dB
Filter slope	-6dB, -12dB, -18dB, -24dB, -36dB, -48dB
Type selection	Butterworth, Linkwitz-Riley, Bessel 12dB Variable Q value
Threshold value	-80dBu ~ -50dBu
Connectors	Input: 3-pin XLR female socket Output: 3-pin XLR male socket Communication port: RS485, USB
Power supply	AC220V~240V @ 50/60Hz
Power consumption	<50W
Dimension (WxDxH)	482mm x 255mm x 45mm
Net Weight	3.5 Kg