

SDEC4500P

Equalizer

JBL

SYNTHESIS[®]
by HARMAN



The SDEC4500P is JBL Synthesis's most advanced digital EQ offering expanded features for premier JBL Synthesis Systems. 12 analog inputs route all 7.1 channels of the home theater system plus 4 additional auxiliary channels for the processing of height channels from Dolby Atmos and/or other 3D Audio AV Processors. 4th order electronic crossover networks may be configured for bi-amplification of JBL Synthesis speakers including those used in Synthesis One Array and JBL M2 systems. 256 bands of parametric EQ running at 24 bit and 96 kHz sampling provide superior resolution and detail. JBL SDECs utilize room correction using JBL's proprietary Adaptive Room and Optimization System (ARCOS) that is the same acoustical measurement system used by Harman Engineering in speaker development and JBL Professional in tuning many high profile professional venues.

The SDEC4500P provides 4 configurable analog audio outputs and the Harman developed Blu Link digital bus for routing up to 128 high resolution (@24bit 96kHz) digital audio signals to compatible Blu link amplifiers such as the JBL SDA8300 and SDA4600 amps. A Blu link input is also available for use for system expansion. The SDEC4500P may be used with any analog amplifier by adding the SDEC4500X audio expander that offers a blu link input and 16 analog outputs for use with any amplifier using analog inputs.

Features

- ▶ 12-Channel analog input, 4-channel analog output, 256-band parametric EQ
- ▶ 22 Channel processed audio outputs via Digital Blu Link
- ▶ Speaker distance-time-correction
- ▶ Fourth-order electronic crossover networks for Synthesis Array™ Module (SAM1HF/SAM2LF) and M2 speakers
- ▶ Driver-time-alignment compensation
- ▶ Balanced or single ended (unbalanced) inputs and outputs
- ▶ Four analog Outputs may be configured for subwoofers or bi-amplified left and right front channels
- ▶ Three pairs of side speaker Outputs via Blu-link for large rooms with multiple rows of seating (can be expanded to four pairs)
- ▶ Two-Unit configuration includes the SDEC4500P input and DSP processor and the SDEC4500X output expander.
- ▶ 4 Auxiliary inputs can be used for processing height channels provided by 3D audio processor

Specifications

- ▶ Sampling Frequency: 96kHz
- ▶ Maximum Input Signal: 20dBu with 0dB input gain (+8dBu with 12dB gain)
- ▶ Maximum Output Signal Level: +19dBu
- ▶ Frequency Response: (+0.5/-1dB): 20Hz to 20kHz
- ▶ D/A Conversion: 24-Bit
- ▶ THD: <0.01% (20Hz to 20kHz, +10dBu output)
- ▶ Power Consumption: <35VA
- ▶ Power Supply Input: 85-270V AC, 50/60Hz
- ▶ Power Supply: 50 Watts Maximum Per Unit
- ▶ BTU Per Hour: 188 BTU Maximum Per Unit
- ▶ Dimensions (H x W x D):
3-1/2" x 19" x 9-1/4"
(89mm x 483mm x 235mm) Each Unit
7" x 19" x 9-1/4"
(89mm x 483mm x 235mm) Both Units
2 rack spaces Total
No ventilation space required
- ▶ Weight: 9 lbs/4.1 kgs per unit
18 lbs/8.2 kgs both units

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