



SP48 - LOUDSPEAKER MANAGEMENT SYSTEM

SP SERIES LIVE SOUND & INSTALLATION

FEATURES

- High performance 4 in 8 out loudspeaker processor
- High dynamic range
- Convenient front panel controls or remote operation

APPLICATIONS

- Bars And Clubs
- Live Sound Reinforcement
- Ballrooms
- Conference / Speech
- Worship
- Theatres / Performing Arts

DESCRIPTION

The HH Electronics SP48 is a fully featured 4-IN/8-OUT digital speaker management system. Featuring 4 analog inputs and 8 analog outputs, each managed by a powerful DSP Engine. Each input channel provides 30 PEQ, gain control, noise gate, RMS compressor and configurable delay. Each output offers up to 7 PEQ and crossover filters. Each output path also features peak limiter, HP/LP Filters, and driver alignment delay.

Easy setup is assured with intuitive front panel controls and an interactive LCD display for local setup, or a dedicated PC control interface for remote monitoring and configuration via USB or RS485 and dedicated control software. The SP48 supports a full matrix mixing mode where inputs may be routed/mixed in any ratio to any output.

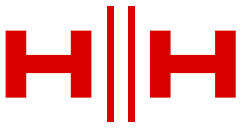
The SP48 loudspeaker processor is the perfect counterpart to any HH speaker system, suitable in an array of applications, such as live sound, indoor/outdoor events, public address, theatrical performance, and touring. It also comes with expertly created audio pre-sets for use with the TNA line array system, for easy setup straight out of the box.



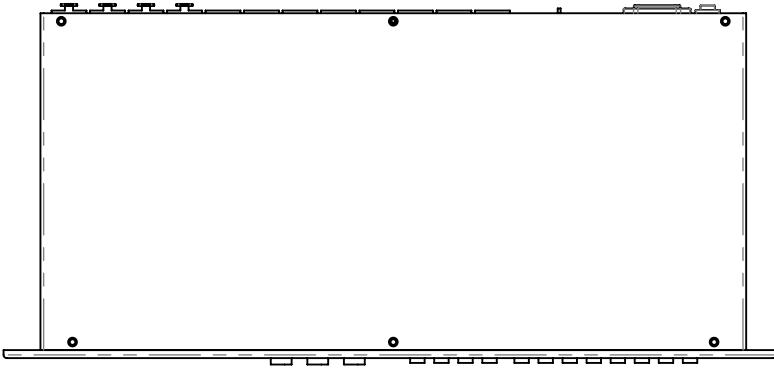
SPECIFICATIONS

Type	Loudspeaker Management System
Audio	
Inputs	Four Electronically Balanced XLR Inputs
Outputs	Eight Electronically Balanced XLR Outputs
Minimum Load	150 Ohms
THD%N	0.001% at 1kHz 0dBu
S/N	>106dB
Frequency Response	20Hz-20kHz; -0.5dB at 20Hz and 20kHz
AD/DA Converters	24bit, 48kHz
General	
Presets	24 user presets
Other	Audio Ground Lift switch, USB/RS485 ground lift switch
Remote	USB remote control and RS485 in/out RJ45 connectors for control and monitoring of upto 32 units
DSP	
DSP Engine	24bit DSP
DSP Resolution	24bit (data) x 24 bit (coeff.), 54 bit accumulators. 96 bit precision on intermediate processing data
Parametric Equalisation	30 filters per input, 7 filters per output
Filter Type	Bell, Hi/Lo Shelving, HP/LP Bandpass, Notch, All Pass
Filter Gain	From -15dBu up to +15dBu by 0.5dBu resolution steps
Centre Frequency	from 20Hz up to 20kHz with 1Hz resolution steps
Filter Q/BW	Bell Q: 0.4-128, Shelving/HP/LP Q: 0.1-5.1, BP/Notch/All Pass Q: 4-104
Input Gain	From -18dB to +12dB by 0.1dBu resolution steps;
Output Gain	From -18dB to +12dB by 0.1dBu resolution steps;
Crossover Section HPF/LPF	Butterworth 6/12/18/24/36/48 dB per octave. Bessel 12/24 dB per octave. Linkwitz-Riley 12/24/36/48 dB per octave
Input Noise Gate	Threshold from -80dBu up to -50dBu. Attack time from 1ms up to 1000ms; Release time from 10ms up to 1000ms
Input RMS Compressor	Threshold from -14dBu up to +16dBu and Bypass. Ratio 2:1-32:1; Knee: 0% - 100%. Make-up from -12dB to +12dB. Attack time from 5ms up to 200ms; Release time from 0.1 sec up to 3 sec
Output Peak Limiter	Threshold from -14dBu up to +16dBu and Bypass. Attack time from 1ms up to 900ms; Release time from 0.1 sec up to 5 sec.
Delay	420ms per input channel. 129ms per output channel
Residual Noise	<-90dBu
Power Requirements	
AC Power	Universal voltage 100V-240V~ 50/60Hz, three pin IEC socket
AC Power Consumption	<30W
Sizes	
Unit dimensions (HWD)	44 x 482 x 225mm, 1.7" x 19" x 8.9"
Unit weight	3.5Kg, 7.7 lbs
Carton dimensions (HWD)	9 x 53 x 30CM, 3.5" x 20.9" x 11.8", 0.014 M3
Packed weight	4.5Kg, 9.9 lbs
EAN	5060109458305





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