# DSP48

Presentation:

The DSP series compromises two versatile and advanced DSP Audio Processors providing the ideal tool for enhancing, updating and protecting any sound system using the latest technology in sound processing.

Both DSP26 and DSP48 feature analog inputs and outputs precisely balanced with XLR 3p connectors, with 2 (two) inputs and 6 (six) outputs for the DSP26 and 4 (four) inputs and 8 (eight) outputs for the DSP48 configurations that are ideally suited to manage a multi-speaker sound system in any sized venue. With the 24-bit/96 kHz high-end AD/DA converters, these DSPs offer sound quality and flexibility needed between your mixer and amplifiers to optimize and protect your loudspeakers. Both units are completely configurable and its processing capability includes Gain, Parametric EQ, Shelving Filters, Time Delay, Crossover Filters (Butterworth, Linkwitz-Riley, Bessel), Compression, Limiting and 23 user-defined internal presets storable. These DSP units can be controlled or configured in real time on the panel or with the intuitive PC software accessed via the USB, TCP/IP, RS232, RS485 or GPIO interfaces.

The DSP26 and DSP48 are the answer for a complete optimization for both passive and powered loudspeaker systems providing all the processing tools to make your venue sound like it was tuned by the pros, designed for the touring or fixed sound installation markets.
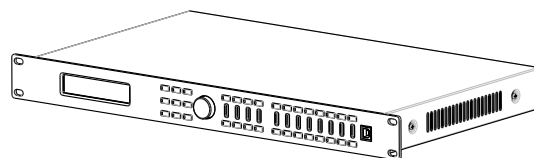
Features:

- Professional 4-input, 8-output system processor
- All inputs and outputs XLR 3p balanced connectors
- High-end 24-bit AD/DA, 96 kHz converters
- Gain, Parametric EQ, Shelving Filters, Time Delay
- Crossover Filters (Butterworth, Linkwitz-Riley, Bessel), Compression
- USB, TCP/IP, RS232, RS485 and GPIO for programming via PC
- Friendly and intuitive control interface
- Convenient front-panel controls for parameter editing, muting
- 23 user-defined internal presets storable
- Switch mode power supply: 90V – 250V AC
- Solid construction for 19" Rack – 1U lightweight enclosure

482 [18.98]

275 [10.83]
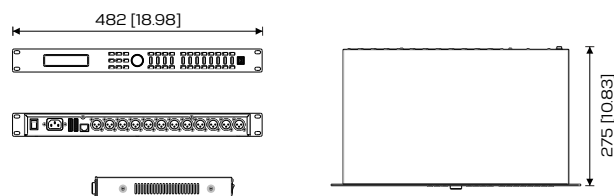
Dimensions in mm [in]

Technical specifications:

Type	Professional audio system processor	Attack time	Attack time: 1~100ms ,step 0.1ms
Inputs	4 (four)	Release time	50~1000ms, step 50ms
Outputs	8 (eight)	Dynamic range	116dB A Weighting
Connectors	Input: XLR/F 3p balanced	CMMR	50dB (30Hz~20kHz)
	Output: XLR/M 3p balanced	Crosstalk	< -100dB
Comm	USB, TCP/IP, GPIO, RS232, RS485	Distortion	0.003% (1kHz, 0dBu)
Input Impedance	10kΩ	System preset	23 user programs/presets
Output Impedance	50Ω	Controls	Mains switch (on/off), MUTE push buttons
Max. input/output level	+20dB	Mains connector	IEC 3p
Input/output gain	-40~12dB, 0.1dB step	Operation Voltage	90~250V AC SMPS, 50~60 Hz
Input/output delay	0ms~1s, step 21us	Dimensions (WxHxD)	1RU space, 275mm depth (10.83in)
Input PEQ	3-band dynamic EQ	Weight	3.6Kg	7.94lb
EQ gain	-30~15dB, step 0.1dB		
EQ type	PEQ, Low shelf, High shelf		
EQ frequency	20Hz~20.0kHz (+/-5dB)		
EQ bandwith	PEQ 0.017~4.75 Oct		
Crossover frequency	20Hz~20.0kHz (+/-5dB)		
Crossover slope	FLAT THRU, 6/12/18/24/36/48dB/octave		
Crossover classification	Butterworth, Bessel, Linkwitz-Riley		
Compressor threshold	-20dB~+20dB, step 0.5dBu		
Compressor ratio	1.2,1.5, 2, 3, 4, 6, 10, 20, 40, 128:1		