4 In/8 Out Digital Audio Processor

DSP480

Features

- ✓ Full digital audio processor for extreme high quality sound performance.
- ✓ Applications for auditoriums, houses of worship, theaters, convention centers, stadium and stage monitoring system.
- ✓ 4 inputs and 8 outputs with audio matrix system
- ✓ 96k Hz sampling rate 24 bit high performance AD/DA converters.
- ✓ 40 bit floating point super efficiency DSP chip.
- ✓ 8 bands parametric equalization per input channel
- ✓ 9 bands parametric equalization per output channel
- ✓ Each band can be switched to bell, Hi/Lo-Shelving, HP/LP, Band Pass, Notch and All Pass filters.
- ✓ Crossover filters with slopes from 12dB/Octave up to 48dB/Octave including Butterworth, Bessel, Linkwitz Riley.
- ✓ Each output features a dynamic range controller composed of a peak limiter.
- ✓ Adjustable delay time up to 1,000 ms for every channel.
- ✓ Convenient use of function buttons on either front panel or the included English software interface displays.
- ✓ 24 pre sets can be programmed and stored and protected by password.
- ✓ Each input channel provides 8 PEQ, gain control, noise gate function, RMS compressor, and configurable delay.
- ✓ Each output offers 9 PEQ with the crossover filters wholes slopes from 12dB up to 48dB/Octave.
- ✓ Each output path also features peak limiter, HP/LP filters, and driver alignment delay.
- ✓ Full matrix mixing mode where inputs may be routed/mixed in any ratio to any output.
- ✓ Direct user-friend English PC/Network connection and control.
- ✓ Front panel USB connector for direct PC communication.
- ✓ RS232 connection for system setup, monitoring and control via full manageable remote PC software.
- ✓ Front panel interactive LCD display for local access and configuration.
- ✓ Simultaneous control up to 50 units via PC software security lockout.
- ✓ *Option model of* ***DSP240 (2 In/4 Out) and DSP360 (3 In/6 Out)***

Applications

- **Professional Sound System, Sound Reinforcement System, Live Performance, AV Conference System**
- **Auditoriums, Houses of Worship, Theaters, Convention Centers, Stadium and Stage Monitoring System**

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Rear Panel

Specifications

Model	DSP480
Description	Digital Audio Processor
Analog Input	4×XLR balanced, >10k Ohm
Analog Output	8×XLR balanced, 50 Ohm
THD+N	0.002% at 1kHz 0dBu
S/N Ratio	<100dBA
Frequency Response	20-30kHz; -0.5dBu at 20Hz and 20kHz
AD/DA Converter	24 bit-48kHz
DSP Gain	From -40dBu up to +15dBu by 0.1dBu resolution steps
PEQ	8 PEQ per channel
PEQ Type	Hi/Lo-Shelving, HP/LP, Band Pass, Notch and All Pass filters
PEQ Gain	From -30dBu up to +15dBu by 0.1dBu resolution steps
Filter Type	Butterworth, Bessel, Linkwitz Riley
Filter Slope	From 12dBu up to +48dBu per octave
PEQ Frequency	0.05-3 Octaves (Q=0.404-28.852)
Crossover Filter	HP/LP per output channel
Input RMS Compressor	Threshold from -20dBu to+20dBu and Byp Attack time from 0.3 ms to200ms; Release time from 0.3 sec up to 3 sec
Output Peak Limiter	Threshold from -20dBu to+20dBu and Byp Attack time from 1 ms to 900ms; Release time from 0.3 sec up to 5 sec
Input & Output Polarity	Normal 0° or inverted 180°
Input & Output Mute	ON/OFF
Delay	0-1,000ms per input and output channel
Presets	24 user presets
Connector	4×XLR inputs, 8×XLR outputs, USB on front panel, RS232 of 9PIN on rear panel
Power Supply	AC 90V-240V, 50-60Hz
Dimension	484×44×222mm, 1RU
Weight	4Kg

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