Speaker Management Systems DPA Series - DPA480P

DPA480P

DPA480P is a cost-effective 4-IN/8-OUT digital speaker management system catering to any crossover configuration with its suitable processing and control for live application use. 4 analog inputs and 8 analog outputs are managed by a powerful MARANI® DSP Engine, in addition to 24 Bit AD/DA Converters. Each input channel provides 30 PEQ, gain control, noise gate function, RMS compressor, and configurable delay. Each

output offers 7 PEQ with the crossover filters whose slopes from 6dB up to 48dB/Octave. Each output path also features peak limiter, HP/LP Filters, and driver alignment delay. The DPA480P supports a full matrix mixing mode where inputs may be routed/mixed in any ratio to any output. For remote configuration and control the DPA480P can be connected via USB or RS485 connections to remote control PC software.



Features

Outstanding Performance

Excellent sonic performance with 24bit high end converters coupled with 48kHz sample rate 4 inputs, 8 outputs with full matrix mixing

Top-grade DSP Engine

30 band parametric equalization per input channel 7 band 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 6dB/Octave up to 48dB/ Octave including Butterworth, Bessel, Linkwitz-Rilev

Each output features a dynamic range controller

composed of a Peak Limiter Adjustable Delay time up to 420.998 ms for every input channel, up to 128.998 ms for every output channel

Direct PC/Network Connection and Control

Front panel USB connector for direct PC communications Rs485 connection for system setup, monitoring and control via fully manageable remote PC software

Front panel interactive LCD display for local access and configuration Simultaneous control up to 32 units via PC software

Up to 24 storable user presets Security Lockout

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Audio Analog Input -----4 x XLR electronically balanced Analog Output -----8 x XLR electronically balanced Minimun Load ----- 150 ohm THD+N -----0.001% at 1kHz 0dBu S/N ----->106dBA Frequency Response ------ 20Hz - 20KHz; -0.5dBu at 20Hz and 20kHz AD & DA Converters ----- 24bit - 48kHz DSP & Processing DSP Engine -----MARANI® DSP 24bit (data) x 24 bit (coeff.), 54 bit accumulation registers DSP Resolution -----96 bit precision on intermediate processing data 30 filters per input; 7 filters per output Parametric Equalization -----Filter Type -----Bell, Hi/Lo-Shelving, HP/LP, Band Pass, Notch and All Pass Filters selectable Filter Gain ------ From -15dBu up to +15dBu by 0.5dBu resolution steps Center Frequency ------ from 20Hz up to 20kHz with 1Hz resolution steps Input&Output Level------ 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 Threshold from -80dBu up to -50dBu Input Noise Gate-----Attack time from 1ms up to 1000ms; Release time from 10ms up to 1000ms Input RMS Compressor -----Threshold from -14dBu up to +16dBu and Byp Ratio 2:1~32:1; Knee: 0% ~ 100%; Makeup 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 Byp Attack time from 1ms up to 900ms;Release time from 0.1 sec up to 5 sec Input&Output Polarity-----Normal (0°) or Inverted (180°) Input&Output Mute-----ON / OFF Delay -----420.998 ms per input channel; 128.998 ms per output channel

General	
Device Presets	24 User Presets
Dimensions	19"x 1.75"x 9"
Weight, Net / Shipping	7.71 lbs (3.5 Kg

Applications

- Auditoriums
 - Houses of Worshin
- Performing Art Centers • Theaters Convention Centers
 Stadiums and Arenas
 Touring Musicians
 Stage Monitoring System digital
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(483x44x229mm) 1RU) / 8.82 lb (4 Kg)