DPA360P

3 In - 6 Out Speaker Management System

DPA360P is a cost-effective 3-IN/6-OUT digital speaker management system. Designed to be catered for any crossover configuration, it provides the suitable processing and control necessary for both live and fixed installation use. It offers 3 analog inputs, 6 analog outputs, managed by a powerful DSP Engine, in addition to high performance 24 bit AD/DA Converters. Each input channel provides a choice of EQ with 5-band Parametric EQ, Gain control and configurable Delay. Each output offers up to 8-band of parametric equalization, in addition to the crossover filters which themselves provide slopes from 6dB/Octave up to 48dB/Octave. Each output path also features Peak Limiter and driver alignment Delay.

The **DPA360P** supports a full matrix mixing mode where inputs may be routed/mixed in any ratio to any output. For remote configuration and control the **DPA360P** can be connected via USB or RS485 connections. The control remote PC software allows simultaneous control up to 32 units, setting all parameters and showing real time levels.

Features

Outstanding Performance

Excellent sonic performance with 24bit high end converters coupled with 48kHz sample rate

3 inputs, 6 outputs with full matrix mixing

Top-grade DSP Engine

5 band parametric equalization per input channel

8 band parametric equalization per output channel

Each band can be switched to Bessel

Crossover filters with slopes from 6dB/Octave up to 48dB/ Octave including Butterworth, Bessel, Linkwitz-Riley

Each output features a precision dynamic range controller composed of a Limiter working on RMS value of the limiter's input

Adjustable Delay time up to 400 ms for every input and output channel

Phase correction per output channel

Direct PC/network connection

Rear panel USB connector for direct PC communications

Rs485 connection for system setup, monitoring and control via fully manageable remote PC software

Control

Front panel interactive LCD display for local access and configuration
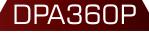
Front panel 7-LED level meter indicators per channel

Simultaneous control up to 32 units via PC software up to 32 storable user presets

Security Lockout

Applications

- Auditoriums
- Convention Centers
- Houses of Worship
- Stadiums and Arenas
- Theaters
- Touring Musicians
- Performing Art Centers
- Stage Monitoring System

Designed in Italy Assembled in China

DPA360P

Audio

Analog input	3 x XLR electronically balanced
Analog Output	6 x XLR electronically balanced
Minimum Load	150 ohm
THD+N	0.001% at 1kHz 0dBu
S/N	>100 dBA
Frequency Response	20Hz - 20kHz; -0.5dBu at 20Hz and 20kHz
AD & DA Converters	Cs42528 24bit

DSP & Processing

DSP Engine	Dream SAM3716, 24 bit (data) x 96 bit (coeff.)
DSP Resolution	24 x 32 bit for filtering process
	96 bits resolution on intermediate computation results
Parametric Equalization	5 filters per input selected as Bell or Shelving
	8 filters per output selected as Bell or Shelving
Filter Type	Bessel
Filter Gain	From -18dBu up to +18dBu by 0.5dBu resolution steps
Center Frequency	Selectable with a 1/48th of octave resolution step from 20Hz up to 20kHz
Filter Q/ BW	Q from 0.3 up to 20 by 0.1 resolution steps
Crossover Section HPF/LPF	Butterworth 6/12/18/24/48dB per octave
	Bessel, Linkwits-Riley 12/24/48dB per octave
	Filter resolution 1/48th of octave
RMS Limiter	Threshold from -14dBu up to +16dBu;
	Attack time from 5ms up to 200ms (1ms resolution up to 20ms, 10ms resolution up to 100ms and 20ms resolution up to 200ms)
	Release time from 0.1 sec up to 3 sec (0.1 sec resolution)
Delay	400 ms 21us increment/decrement steps per channel

General

Device Presets	32 User Presets
Front Panel	2x24 character LCD display with Blue LED backlight
	7-LED meter per input channel -20dBu to +15dBu, clip
	7-LED meter per output channel -15dBu to +15dBu, clip and limiter mode
	Blue LED (Edit) per channel
	Red LED (Mute) per channel
	NAV/PM1 Rotary encoder push button switch
	PM2, PM3, ENTER, ESC, UTILITY push button switches
	EDIT/ MUTE push button per channel
	Type B USB Connector
Rear Panel	3 x XLR female connector (Input)
	6 x XLR male connector (Output)
	2 x RS485 connector
	2 x Ground-lift toggle switch
	IEC C13 16A connector; Power on/off switch
Main AC	90-240VAC (50/60Hz) – 40W
Dimensions	19"x 1.75"x9"(482x44x229mm) 1RU
Weight. Net/ Shipping	7.71 lbs (3.5kg)/ 8.82 lb(4kg)

Specifications subject to change without notice

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