

Processor

Digital system processor

4 analogue inputs / 8 analogue outputs
4 digital AES3 inputs / 8 digital AES3 outputs
24 bit/96 kHz A/D and D/A converters
50 configurable presets

Features

High sonic performance
Dedicated APG presets
Control software
User friendly
Grouping functionality

Applications

System management and signal processing for large, complex APG systems, with or without subs
Digital delay
Loudspeaker pre-EQ
Signal routing and zoning

Specifications

Bandwidth: 10 Hz - 40 kHz
Dynamic Range > 118 dB
High-pass/low-pass/shelving filters
Crossover filters:
Bessel, Butterworth, Linkwitz Riley, Hardman, LIR
Single threshold limiter or simulating a crossover
Parametric EQ: 8-band per output
6-band EQ per input

APG dynamic protection

Lock function for front panel controls

RJ45 Ethernet Port as standard,

automatic PC network connection via DHCP

Dante compatibility option

The DMS48 is a 4-in/8-out digital signal processor enabling all matrixing and routing possibilities. The DMS48 is characterized by the quality of its design and its high specification I/O converters for an extraordinary level of performance. Its easy-to-access interface comprises three velocity-sensitive rotary encoders which provide intuitive parameter control and configuration as if analogue filters had been applied. The device includes all the necessary processing and filtering functions across 60 presets: Each input features: gain, high-pass filter, high and low shelving, 6-band parametric EQ, delay. Each output features: gain, crossover, high and low shelving, 8-band parametric EQ, phase reverse, delay, limiter, plus dynamic, thermal and excursion protection. PWAPG software enables remote control of the device via Ethernet protocol. Standard or custom presets are provided for APG's Micro Axial, Micro, and Dispersion Series loudspeakers and the UNILINE system.

DMS48



Digital System Processor DMS48

The APG DMS48 digital processor is primarily intended for the management and processing of large, complex systems, but also for loudspeaker processing in cases where systems are operated at their maximum power. The large number of filtering, equalization and time alignment functions makes the product ideal for the configuration and processing of FOH systems.

The DMS48 increases system reliability by integrating complex and innovative dynamic protection systems that are adapted to each speaker. Excursion and temperature settings are digitally simulated and controlled, which enables the speakers to be used safely up to their maximum performance ratings.

The DMS48 incorporates grouping features which enable system configuration from the presets of each speaker.

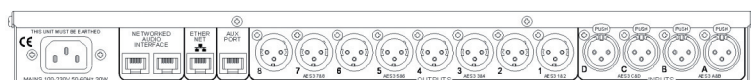
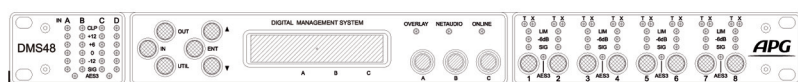
Thanks to its flexible and modular system configuration, its high quality processing and its active loudspeaker protection, the DMS48 offers sophisticated, versatile and reliable system management, regardless of the APG system used.

PWAPG software is easily installed and intuitive to use and provides excellent real-time control of all parameters of the current program.

APG

DMS48

Technical Specifications



General

	DMS48
Inputs	4 (Analog or AES3) Dante (option)
Input Impedance	> 10 k Ω , Electronically balanced
Maximum Input level	+20 dBu
Outputs	8 (Analog or AES3)
Output Impedance	<100 Ω , balanced ground
Maximum Output Level	+18 dBu into 600 Ω load
Sample Rate	96 kHz
Bit Depth	24 bits
Frequency Response	10 Hz à 40 kHz, +/-3 dB (disabled filters) 20 Hz à 20 kHz, +/-0,5 dB (disabled filters)
THD	<0,008 %, (+10 dBu, 20 Hz to 20 kHz, 30 kHz bandwidth)

Processing

Gain	+20 dB to -80 dB and mute, 0,2 dB steps
Virtual inputs	4 virtual inputs A, B, C and D linked to selectable physical inputs (1, 2, 3, 4, 1+2, 3+4)
Output channel sources	Selectable virtual input A, B, C or D
HP/LP filters selectable frequencies	Off, 20,2 Hz to 25,4 kHz, 1/80 octave steps
HP/LP filters type	12, 18 and 24 dB/octave Bessel and Butterworth 12, 24 and 48 dB/octave Linkwitz Riley 4th or 8th order Hardman Linear phase filters LIR
Delay	Input 1 s, output 1 s
Limiter	High performance limiter, adjustable threshold in 0.2dB steps Crossover limiter for passive loudspeakers
Protections	Over-excitation and overheating protections
EQ Frequency	10 Hz to 25 kHz, 1/80 octave steps
EQ Gain	+15 dB to -15 dB, 0.2 dB steps
EQ Width	5.0 to 0.1 octaves bandwidth, 1/32 octave steps

Connectors

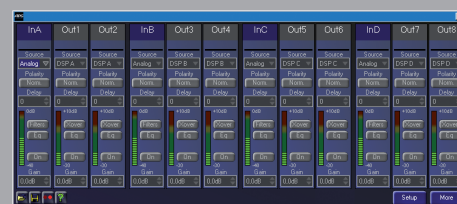
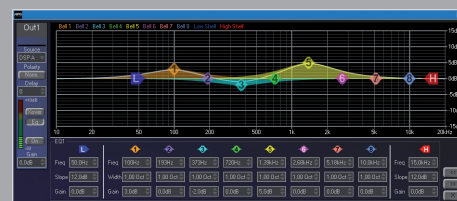
Audio inputs	3 pin female XLR
Audio outputs	3 pin male XLR
Ethernet port	Shielded RJ45
Auxiliary port	Shielded RJ45
Mains	3 pin IEC

Characteristics

Mains Power	Universal switch-mode PSU, 85V to 230V AC, 50/60 Hz
Consumption	30 Watts
Dimensions (H, W, D)	1,7" x 19" x 10" (44 x 482 x 254 mm)
Weight	2,7Kg net

Control Software PWAPG

Control software of the DMS48 via a computer PC, smartphone or tablet.



Printing : May 2013

APG