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TECHNICAL SPECIFICATIONS

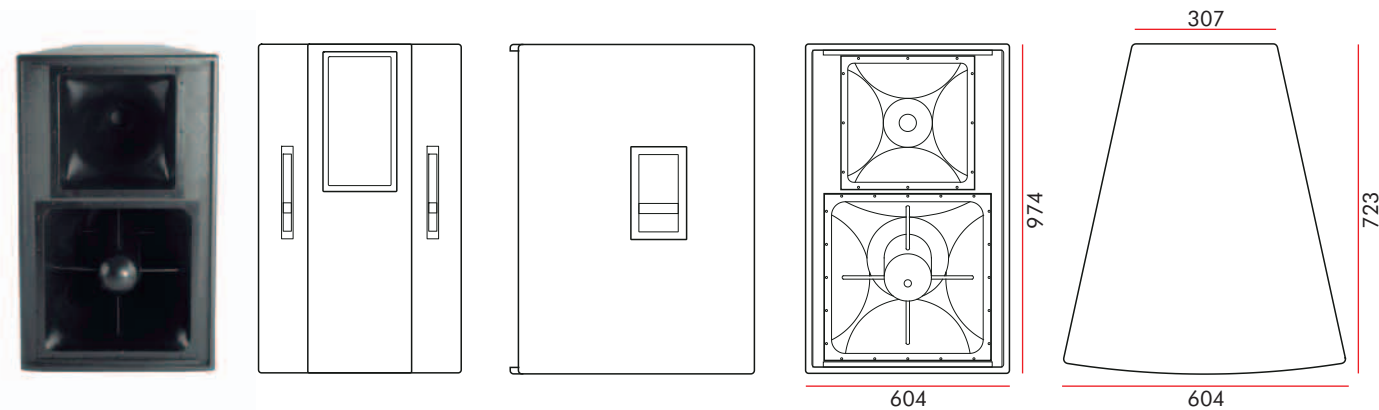
loudspeaker specifications		poseidon 212	poseidon 218
component	high low	2" driver horn loaded 12" woofer horn loaded	2x18" woofer in push-pull configuration mounted in a bandpass cabinet
costruction	cabinet finish protection	laminated birch plywood black scratch-resistant paint metal grid and foam	
weight	kg	67	127
dimension	mm (WxHxD)	604x973x723	1460x540x735
processor/amplifier specifications			
inputs/outputs	sensitivity impedance	+4dB 20 kOhms (balanced)	
A/D converter	bit	24	
D/A converter	bit dynamic range sampling rate	24 117 dB 48 kHz	
crossover	type frequency slope	Bessel, Butterworth or Linkwitz-Riley variable from 15.6Hz to 16kHz 6, 12, 18, 24, or 48dB per octave	
EQ	number type gain bandwidth freq	5 parametric bands on each input and output peak, 6dB lo-shelf, 12dB lo-shelf, 6dB hi-shelf, 12dB lo-shelf, notch +/-15dB, variable in 0.5dB steps 0.05 to 3.00 octaves, variable in 0.05 steps 15.6Hz to 16kHz	
delay	max input delay max output delay	600ms 300ms	
limiter		independent limiter for each output	
plugins		hum cancel, noise gate, anti-feedback, multiband compressor	
output power	EIA (1kHz, thd 1%)	2x400W	
distorsion	%	<0.02	
controls		up, down and enter selector button, 2-digit display, signal/limiter led	
connectors		1 XLR-F + 1 XLR-M (input + link), 9-pin RS-232, RS-485 in & out 2 POWERCON (mains input & link)	
power supply		see label on the apparatus	
system specifications		poseidon 212	poseidon 218
frequency response	Hz	130-18000 (-3dB)	35-110 (-6dB)
sensitivity	MAX SPL continuous MAX SPL peak	134dB 138dB	129dB 132dB
dispersion	°	32x32	-



Poseidon 212

Features

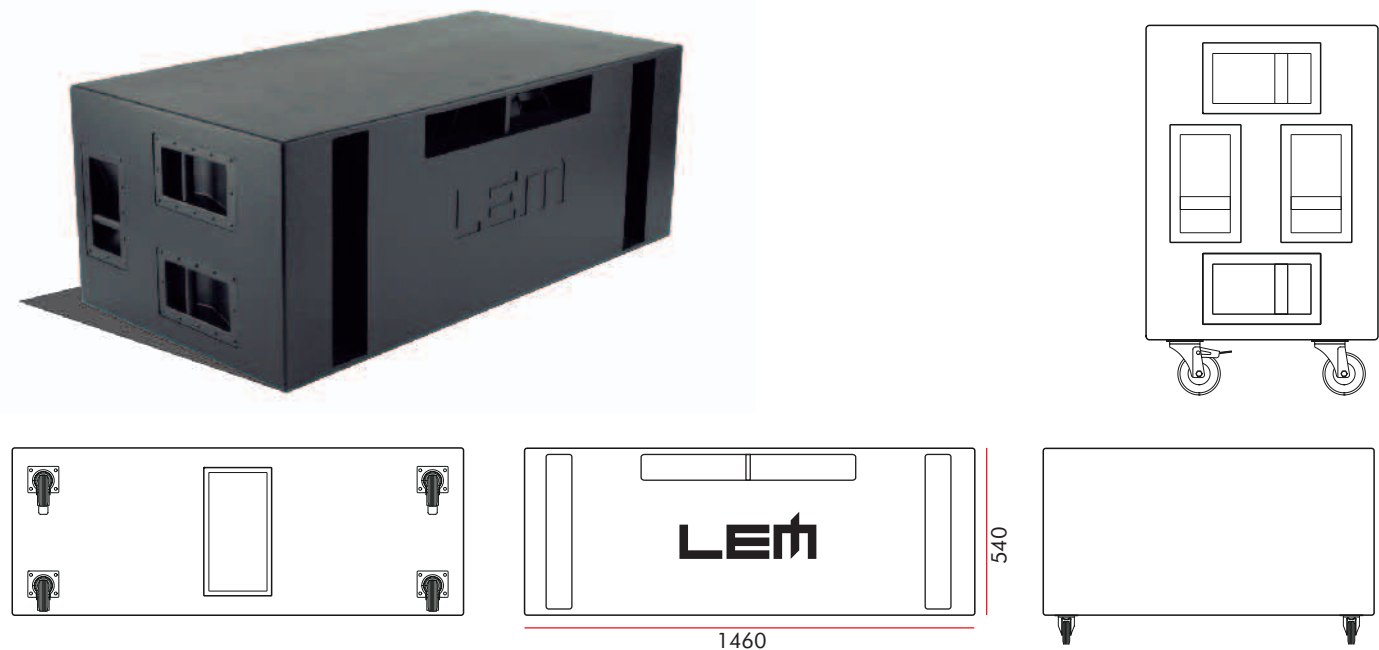
2-way *MID-HIGH, LONG-THROW* amplified loudspeaker system with digital processing
 2" compression driver (3" voice coil) horn-loaded (32x32° coverage - 64x32° for a complete channel made of two speakers)
 12" mid-speaker horn-loaded
 400+400W *DPPM* - Digitally Processed Power Module with *VDAT* system (Variable Damping Assisted Tuning)
 Integrated *DIGITAL* processor con with *XOVER, EQ, DELAY, PHASE* and *LIMITER* functions and additional *PLUGINS*
 Plywood cabinet with 2 handles
APPLICATIONS: LIVE MUSIC in stadiums, arenas and concert halls, large theatre and ballroom PA systems, band PA



Poseidon 218

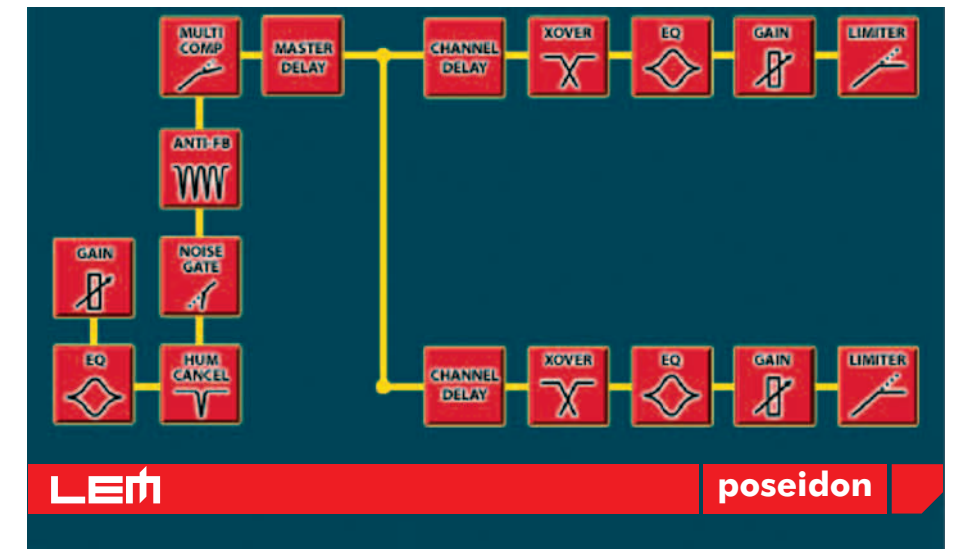
Features

High-efficiency amplified sub-woofer with digital processing
 2 x 18" woofer in push-pull configuration mounted in a bandpass cabinet
 400+400W *DPPM* - Digitally Processed Power Module with *VDAT* system (Variable Damping Assisted Tuning)
 Integrated *DIGITAL* processor con with *XOVER, EQ, DELAY, PHASE* and *LIMITER* functions and additional *PLUGINS*
 Plywood cabinet with 4 handles and 4 wheels for transportation
APPLICATIONS: LIVE MUSIC in stadiums, arenas and concert halls, large theatre and ballroom PA systems, band PA



DPPM module

The *POSEIDON* systems are equipped with the *DPPM* - *Digitally Processed Power Module*, which integrates one or two *power amplifiers* (depending on the model) with a sophisticated *digital processor* based on the proprietary *RED208 DSP*. The combination between an extremely versatile control section and a power section designed to match perfectly the system's loudspeakers provides exceptional quality, efficiency and reliability standards. The module is hosted in a strong metal chassis that protects it against damages and from external interferences.



Digital control

The integrated digital processor features 40bit internal processing and high resolution, low noise 24bit converters for a superb audio quality and a dynamic range suitable for the most demanding applications. The available features provide a total control of all the system parameters:

- *HPF and LPF CROSSOVER* filters with the choice between *Butterworth, Bessel* or *Linkwitz/Riley* response and up to 48 dB/oct. slope
- 5 *EQ* filters for the input and 10 *EQ* filters for each output that can be individually set as *FULL PARAMETRIC, HI and LO SHELving* (6 or 12 dB slope) or *NOTCH FILTER*
- *DELAY LINES* on each input and output for *MASTER DELAY* compensation and individual *LOUDSPEAKER* alignment
- *PHASE* adjustment with 5° step through a full 360°
- High precision *LIMITERS* on each output for the system's loudspeaker protection

4 additional *PLUGINS* are also available, which allows the system performances to be further increased:

- *MULTICOMP*, a multi-band compressor for the system's dynamic EQ, able to create loudness effects
- *NOISE GATE*, a dynamic filter for the cutting of the background noise
- *HUM CANCEL*, a dynamic notch filter that can be used to cut the hum coming from the mains power supply
- *ANTI-FEEDBACK*, a system able to detect and cut automatically any feedback frequency

Each *PLUGIN* can be enabled or disabled by the user and set according to any need. The *DPPM* module includes *FACTORY PRESETS* suitable for the use of the system in different configurations, which can be recalled directly from the control panel. A complete serial interface (*RS232 + RS485*) allows the remote control of all the input parameters (*EQ, MASTER DELAY, LEVEL*) and the *PLUGINS* from a PC using the *DX EDITOR* software. Personal setups can be saved in a series of *USER PRESETS*.

Power section

The power amplifiers included in the *DPPM* module are designed in order to match perfectly each speaker and include the *VDAT* (*Variable Damping Assisted Tuning*) system. This system allows the amplifier to control the loudspeaker acoustical *DAMPING* factor in order to obtain always the maximum efficiency, in particular in the low frequency reproduction. In addition, the *digital LIMITERS* allow the maximum output power to be constantly under control, providing optimal dynamics and avoiding the annoying acoustical effects typical of analog systems.