

## TECHNICAL SPECIFICATIONS

loudspeaker		poseidon 212 N	poseidon 218 N
components	High	2" neodymium driver on CD horn	-
	Low	12" neodymium woofer in bass-reflex	18" neodymium woofer in bass-reflex
construction	Laminated birch plywood cabinet with black scratch-resistant paint and metal grid 8 M10 flying points (only Pegasus 212N) Protection cover with 4 wheels for transport (only Pegasus 118N)		

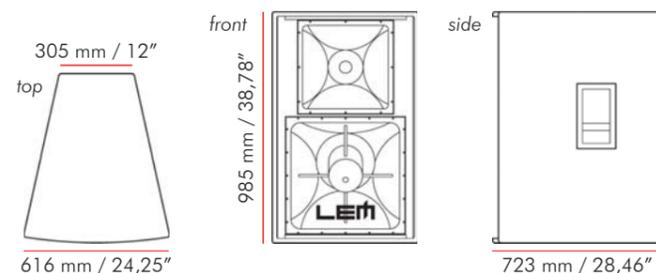
processor/amplifier		poseidon 212 N	poseidon 218 N
input	Sensitivity: +4 dB Impedance: 20 kOhms (balanced)		
A/D converter	24 bit		
D/A converter	24 bit Dynamic range: 117 dB Sampling rate: 48 kHz		
crossover	Type: Bessel, Butterworth o Linkwitz-Riley Frequency: variable from 15.6 Hz to 16 kHz Slope: 6, 12, 18, 24 or 48 dB per octave		
EQ	5 parametric bands on each ingresso e uscita Type: Peak, 6dB Lo-Shelf, 12dB Lo-Shelf, 6dB Hi-Shelf, 12dB Hi-Shelf, Notch Gain: +/-15dB, variable in 0.5dB steps Bandwidth: 0.05 to 3.00 octaves, variable in 0.05dB steps Frequency: 15.6 Hz to 16 kHz		
max. delay	Input: 600 ms Output: 300 ms		
limiter	Independent for each output		
plug-ins	Hum Cancel, Noise Gate, Dynamic EQ		
output power	2 x 400 W (EIA - 1kHz, THD 1%)	800 W (EIA - 1kHz, THD 1%)	
distorsion	<0.02%		
controls	Tasti Up, Down, Enter and Select, 2-digit display, Signal/Limiter LED		
connections	1 XLR-F + 1 XLR-M (signal input + link) 1 XLR-F + 1 XLR-M (RS-485 in & out) 2 Powercon (mains input + link)		
power supply	see label		

system		poseidon 212 N	poseidon 218 N
frequency response		48Hz - 18kHz (-3 dB)	35 Hz - 300 Hz (-3 dB)
sensitivity (max SPL)		Continuous: 136 dB Peak: 140 dB	Continuous: 128 dB Peak: 131 dB
dispersion		60° x 40°	-

### poseidon 212 N | dimensions



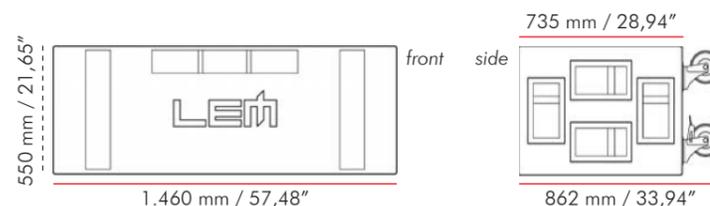
width (\*): 616 mm / 24,25"  
 (\*) rear: 305 mm / 12"  
 height: 985 mm / 38,78"  
 depth: 723 mm / 28,46"  
 weight: 67 kg / 147,7 lbs



### poseidon 218 N | dimensions



width: 1.460 mm / 57,48"  
 height: 550 mm / 21,65"  
 depth (\*): 735 mm / 28,94"  
 (\*) with casters: 862 mm / 33,94"  
 weight: 127 kg / 278 lbs



371510 ENG | Specifications are subject to change without prior notice

# LEM

PROFESSIONAL SOUND

Your next event.

poseidon n

**Poseidon N is the sound system by which LEM Professionals Sound hits the professional market. It features two different units that integrate in one solution speakers, a digital processor and a power amplifier assuring excellent performances, efficiency and handiness resulting to be the perfect choice for the set up of multiple configurations that can fit any requirement.**



**poseidon 212 N**

2-way Mid-High, Long-Throw amplified loudspeaker system with digital processing

**Main features**

- 2" compression driver (3" voice coil) horn-loaded, 32° x 32° coverage (60° x 40° for a complete channel made of two 212 N units)
- 12" mid-speaker horn-loaded
- 400+400 W DPPM - Digitally Processed Power Module with VDAT system (Variable Damping Assisted Tuning)
- Integrated digital processor con with X-Over, EQ, Delay, Phase, Limiter and additional plug-ins
- Plywood cabinet with 4 handles and 4 M8 flying points

Following the great success obtained by the previous Poseidon series, the new N line shows an enhanced sound quality, a high reliability and a very good coverage. It is the result of the use of first class components and advanced high tech solutions of design and development that have allowed the perfect control of the output of the audio signal.



**DPPM module**

Utilizing an advanced switching power supply system with power factor correction, the new Poseidon N amplification module is now 5kg lighter than a similar module with traditional power supply. In addition to this, the switching power supply features greater stability and an extremely high and constant efficiency independently from the mains voltage. The traditional power switch has been removed and replaced by a circuit breaker, as requested by many professional users. A new version of LEM's custom DPS RED208 along with new generation 24bit converters, the accuracy and definition of the internal processing is now at the highest quality level in this product range.

**Digital control**

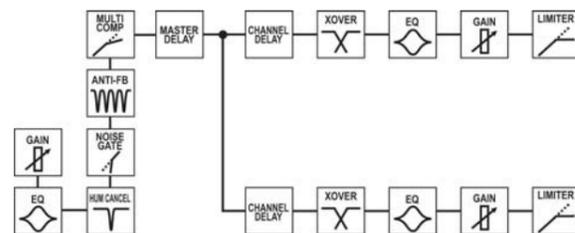
The integrated digital processor features 40bit internal processing and high resolution, low noise 24bit converters for a superb audio quality and a dynamic range suitable for the most demanding applications. The available features provide a total control of all the system parameters:

- 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 loudspeakers alignment
- Phase adjustment with 5° step through a full 360°
- High precision limiters on each output for the system's loudspeaker protection.

Three additional plug-ins are also available, which allows the system performances to be further increased:

- Hum Cancel, a dynamic notch filter that can be used to eliminate hum typically from mains power supply
- Noise Gate, a dynamic filter for the cutting any background noise
- Dynamic EQ, 4-band dynamic equalizer

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 (RS485) allows the remote control of all the input parameters (EQ, master delay, level) and the plug-ins from a PC using the DX NET 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.



**poseidon 218 N**

High-efficiency amplified sub-woofer with digital processing

**Main features**

- 2 x 18" woofer in push-pull configuration mounted in a bandpass cabinet
- 400 + 400 W DPPM - Digitally Processed Power Module with VDAT system (Variable Damping Assisted Tuning)
- Integrated digital processor con with X-Over, EQ, Delay, Phase, Limiter and additional plug-ins
- Plywood cabinet with 8 handles and 4 wheels for transportation

**Applications**

Live Music in stadiums, arenas and concert halls, large theatre and ballroom PA systems, band PA

**Configurations**

