

TECHNICAL SPECIFICATIONS

loudspeaker specifications

		pegasus 212	pegasus 118
component	high low	2" driver horn loaded 12" woofer bass-reflex	18" bass-reflex
costruction	cabinet finish protection		laminated birch plywood black scratch-resistant paint metal grid and foam
weight	kg	44	60
dimension	mm (WxHxD)	424x638x440	620x620x566

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, 6 dB 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	800W
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

		pegasus 212	pegasus 118
frequency response	Hz	48-18000 (-3dB)	32-300 (-6dB)
sensitivity	MAX SPL continuous MAX SPL peak	124 dB 135 dB	124dB 127dB
dispersion	°	60x40	-

LEM
PROFESSIONAL SOUND



Digital integrated loudspeaker system.

pegasus

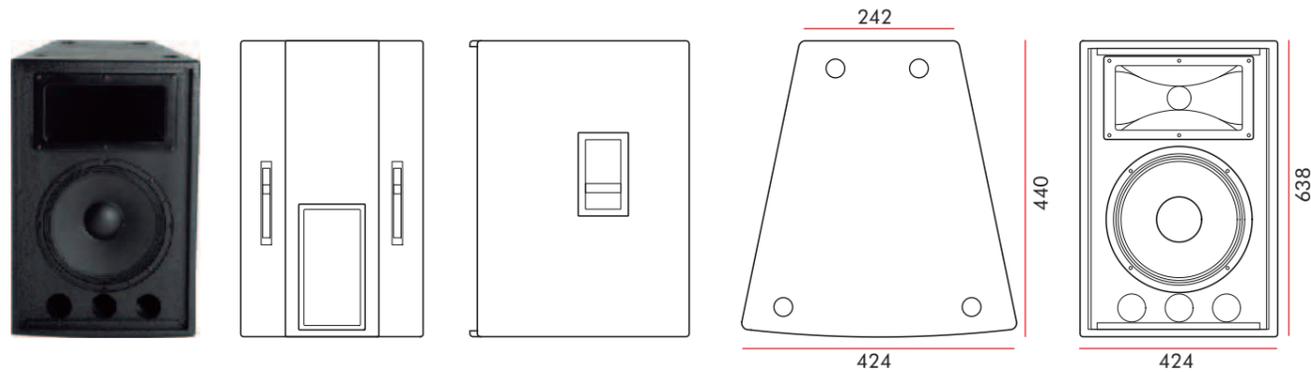


GENERALMUSIC

pegasus 212

Features

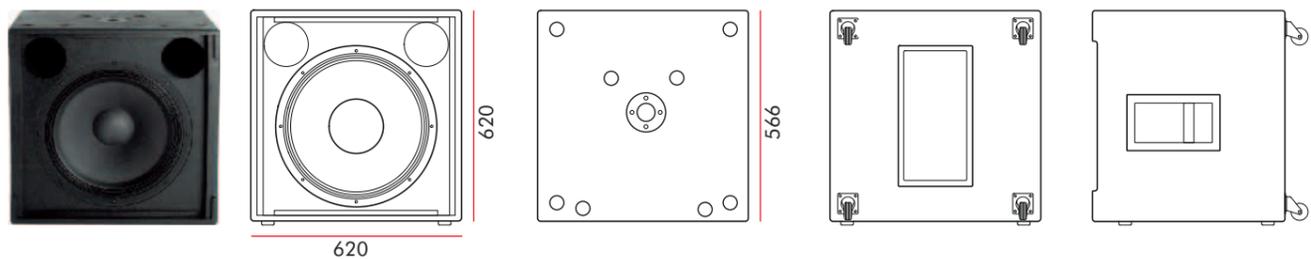
2-way amplified loudspeaker system with digital processing
 2" compression driver (3" voice coil) horn-loaded (60x40° coverage)
 12" woofer in a vented cabinet
 400+400W DPPM - Digitally Processed Power Module with VDAT system (Variable Damping Assisted Tuning)
 Integrated DIGITAL processor con with XOVER, EQ, DELAY, PHASE and LIMITER functions and additional PLUGINS
 Plywood cabinet with 2 handles and 4 M8 flying points
 APPLICATIONS: LIVE MUSIC clubs systems, theater and ballroom events, band PA, convention centers



pegasus 118

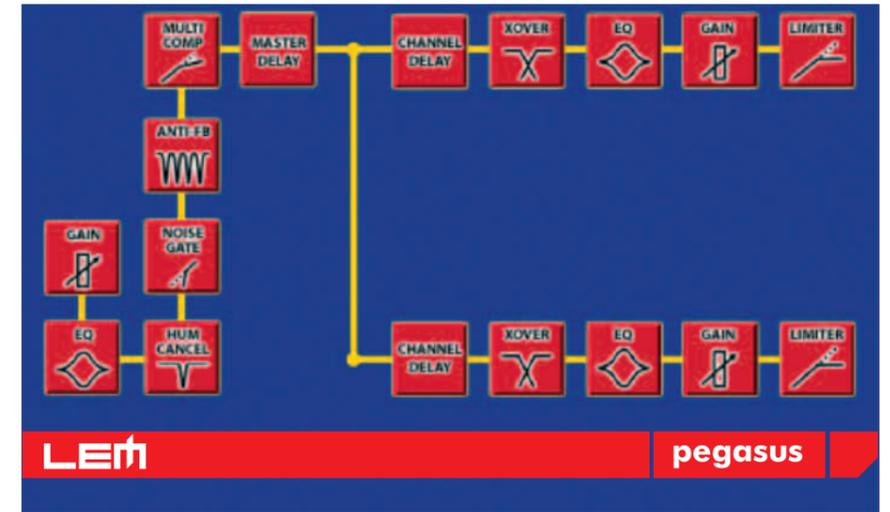
Features

Amplified sub-woofer with digital processing
 18" woofer in a vented cabinet
 800W 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 and 4 wheels for transportation
 APPLICATIONS: LIVE MUSIC clubs systems, theatre and ballroom events, band PA, convention centers



DPPM module

The PEGASUS 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 SHELIVING (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.