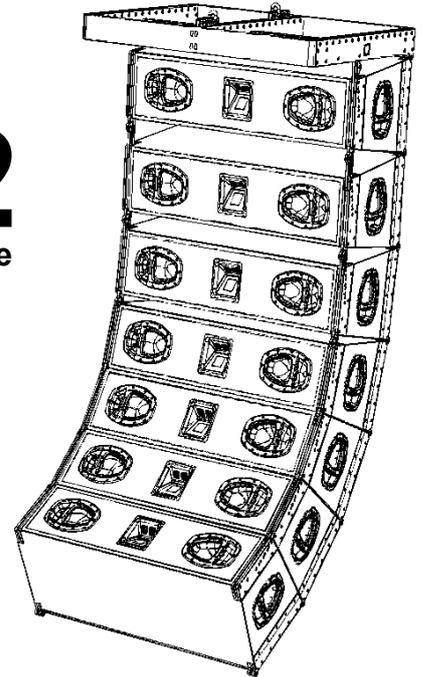


PLA212

4-way cardioid line array module



PROPHON

SOUND SYSTEMS

MADE IN SWEDEN
SINCE 1985





APPLICATIONS

The PLA212 high power 4-way cardioid Line array module was designed for large format FOH, Festivals, live performance, club events, the rental industry, and for fixed installation in acoustically challenging environment, such as theatres, churches, live performance stages, conference centers sports arenas, and large clubs.

VERSATILITY

The PLA212 module features many configuration possibilities, with two dispersion options:

PLA212NF with H115° x V15° for nearfield and smaller setups with up to 8 pcs. in an array, and the PLA212LT with H80° x V15° for long-throw and larger setups, both versions can be combined for optimal coverage.

The PLA212 is also available in a variety of configuration possibilities to meet the specific needs and demands in today's sound systems.

The PLA212 is available as 3-way passive bi-amplified, 3-way active, where the passive version uses two external amplifier channels, and the active version hosts 1500W+750W+750W DSP controlled amplifiers.

CARDIOID

PLA212 is also available in 4-way cardioid version, with additional two high-power 8" neodymium woofers for controlling and steering the frequency response, cancelling out LF frequencies that very often is a problem on stage and behind the system.

The cardioid versions are also available in passive tri-amplified version and active version with 1500W+750W+750W class-D amplifiers with DSP.

UPGRADING

The 3-way version can easily be updated to a 4-way cardioid version, active or passive, with interchanging back panels, meaning that the line array cabinet is the same, only the back panel is switched, making it possible to upgrade passive to active, and 3-way to 4-way cardioid in a very cost effective way,

TECHNOLOGY

In today's modern high expectation on a sound system, not only must the system perform for the audience with controlled dispersion, low distortion, high max SPL and also being reliable and durable.

As a developer, designer and manufacturer we must also include the aspect of the performer, musicians and the overall SPL behind the system, thus we developed the PLA212, a 4-way cardioid line array with truly astounding specifications, performances and dispersion-control, with unsurpassed frequency response, clarity and max SPL,

Each component is specially designed for a specific purpose, with 2 x 12" neodymium woofers mounted in symmetrical front-loaded tuned bassreflex cabinets, handling LF frequencies down to 40Hz. Midrange is handled by 4 pcs. of 6,5" neodymium drivers mounted in closed di-pole configuration, and Highrange is reproduced by 3 pcs. of 1,7" voicecoil drivers with 1" throat exit, mounted on waveguides and interchangeable horns.

Cardioid dispersion behaviour is achieved with two 8" neodymium woofers mounted in separately closed cabinets. using advanced mathematical algorithms in combination with delay, phase and physical placement of components we achieve truly amazing result with very aimed cardioid behaviour for cancelling out LF frequencies behind the system.

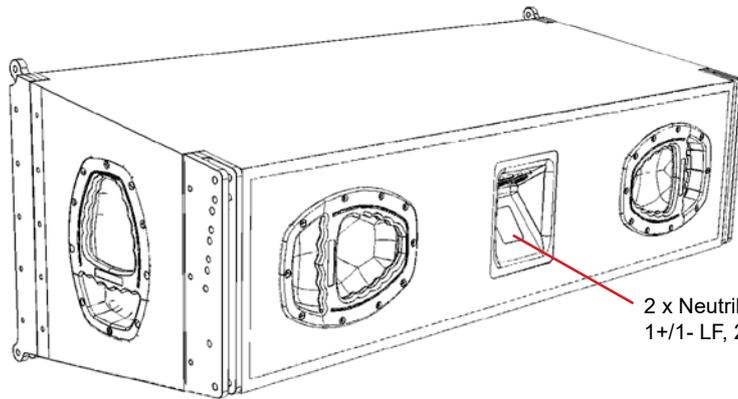
ELECTRONICS AND AMPLIFIERS

The passive version is run by our V-series systems amplifiers, with DSP, AES, advanced FIR coefficients, loudspeaker database, network and DANTE as option, we also have presets for Powersoft X-series.

The active versions features built-in Powersoft modules with 1500W+750W+750W, with advanced DSP processing power for FIR coefficients with DSP, presets, networking, AES and DANTE as option.

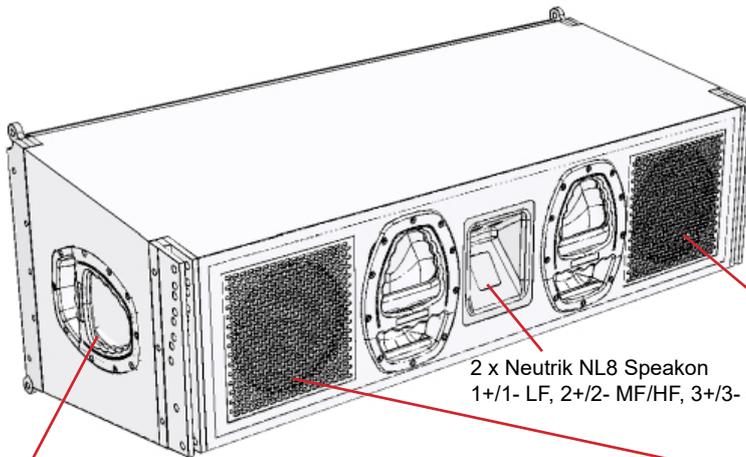
The DSP4800 FIR, AES, network- system processor can be used if using non-DSP amplifiers

Recommended subwoofers B318HPCX, 3x18", 10,2kW cont. cardioid subwoofer, the B221HPX, 2x21" high-power 8000W cont. infra subwoofer, or the HB212, 4000W 2x12" hornloaded long-throw subwoofer.



**3-way passive version
Bi-amplified**

2 x Neutrik NL4 Speakon
1+/1- LF, 2+/2- MF/HF



**4-way cardioid
passive version
tri-amplified**

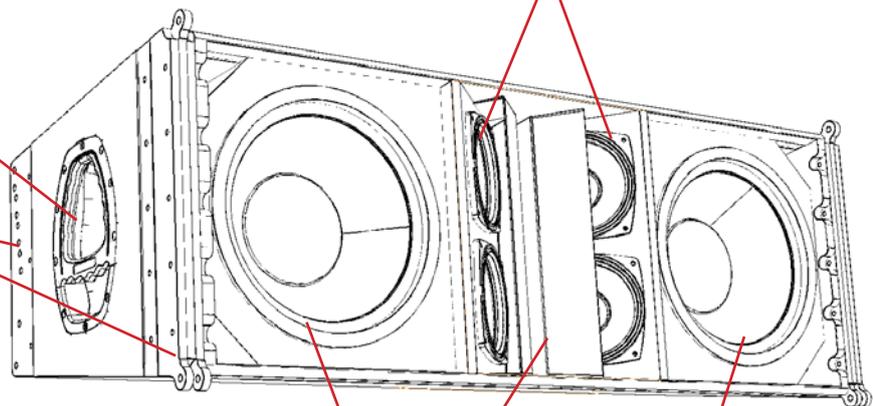
2 x Neutrik NL8 Speakon
1+/1- LF, 2+/2- MF/HF, 3+/3- cardioid

2 x 8" Cardioid

4 handles with
ergonomical grip

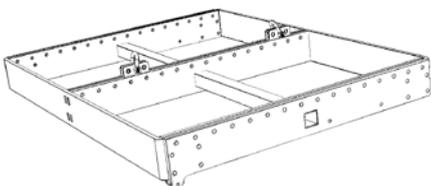
4 x 6,5" MF-drivers in di-pole,
closed cabinet configuration

Integrated 4-point hardware
in 3x10 mm. construction
grade steel, for maximum
safety

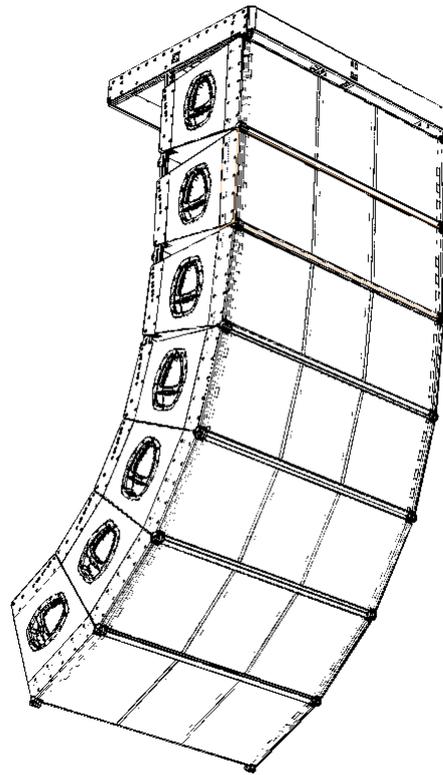
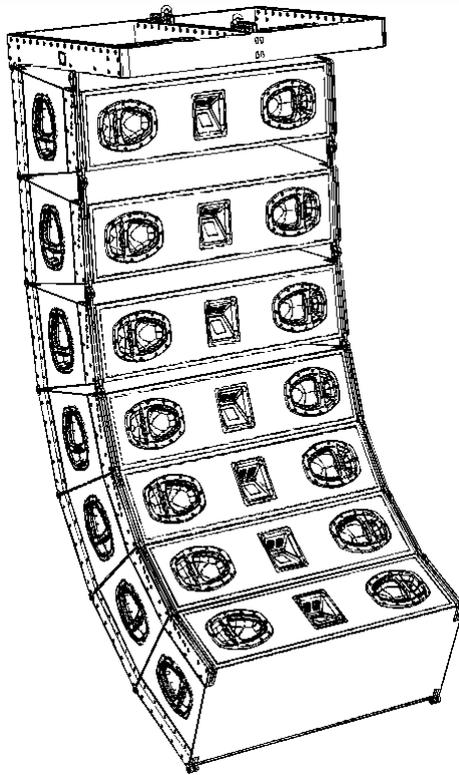


3 x 1" neodymium drivers
mounted on waveguides,
horn and soundguides
for MF and HF

2 x 12" Neodymium woofers,
frontloaded, tuned bassreflex



Bumper frame with adjustable lifting-points, 1, 2,
3 or 4 lifting points can be used, either centered
or on the sides



Model	PLA2124631C	PLA2124631
Design	4-way cardioid line array module	3-way line array module
Components	LF: 2 x 12" MF: 4 x 6,5" HF: 3 x 1" Cardioid: 2 x 8"	LF: 2 x 12" MF: 4 x 6,5" HF: 3 x 1"
Power Handling	4900W cont / 9800W peak	3500W cont. / 7000W peak
Dispersion	NF version: H115 x V15 LT version: H80 x V15	NF version: H115 x V15 LT version: H80 x V15
Frequency response -3dB	40Hz - 19kHz	40Hz - 19kHz
Sensitivity	106 dB average (103dB cardioid)	106dB average
Impedance	LF: 4 ohm MF: 4 ohm HF: 6 ohm cardioid: 4 ohm	LF: 4 ohm MF: 4 ohm HF: 6 ohm
Max SPL	145dB cont / 148dB peak	145dB cont / 148dB peak
Weight	70 kg.	66 kg.
Dimensions	W1100 x H400 x D400	W1100 x H400 x D400
Amplifier channels	3 DSP-controlled channels	2 DSP controlled channels
Recommended amplifier	V10000, 4 x 2500W @ 4 ohm one amplifier can support two speakers	V10000 4 x 2500W @ 4 ohm one amplifier can support four speakers
Connectors	2 x 8-pole speakon linked LF: 1+/1-, MF/HF 2+/2-, Card. 3+/3-	2 x 4-pole NL4MP Speakon linked LF: 1+/1-, MF/HF: 2+/2-
Active version	DSP-controlled powersoft amplifiers, with FIR-filters, presets, daisy-chained network, AES, DANTE (option) LF 1500W, MF/HF: 750W, card: 750W	DSP-controlled powersoft amplifiers, with FIR-filters, presets, daisy-chained network, AES, DANTE (option) LF 1500W, MF: 750W, HF: 750W