

LS212

High output dual 12-inch bass reflex subwoofer

Specifically designed to accompany and complement our DML500 and DML500A loudspeakers to create a true full range system

- High output subwoofer system, bass reflex port design employing asymmetrical acoustic chambers
- Can be used in single, dual, and quad configurations
- Scalable for multi-unit installations

Details that make it professional

- Professional 15 mm Baltic Birch construction with wear resistant polymer coating
- Two recessed handles for simplified handling and carrying
- Rubber feet on both long and short sides support either portrait or landscape placement on the ground or when stacked, while also reducing sliding on smooth surfaces

The LS212 is designed to seamlessly interface with our DML500 and DML500A distributed mode loudspeakers

This high output subwoofer delivers impressive, tight low frequencies that blend perfectly with our DML speakers, making it ideal for churches, clubs, performance venues, and other AV applications.

With its focused bass, the LS212 is an impressive complement to our 85H - 24YkHz offerings. The secret is an asymmetrical chamber that focuses and synchronizes the two 12-inch direct radiating transducers. It enables the LS212 to produce high sound pressure levels with tight dynamics and musical reproduction of very low frequencies across a full 1.5 octaves.

Two 12-inch woofers sport massive vented magnets and 3" epoxy-baked copper voice coils. Power handling is a robust 2400W peak and 800W continuous.

Applications: fixed installations such as:

- | | |
|------------------------|-------------------------|
| Churches | Performing arts centers |
| Educational facilities | Government facilities |
| Gymnasiums | Immersive venues |

Accessories

FlatPanel Audio manufactures a variety of accessories and installation solutions for the LS212, allowing for seamless system integration.



LS212 system (single)

Frequency range (-10dB) 40Hz – 300Hz

Frequency response (-6dB) 45Hz – 120Hz

System sensitivity 97 dB

Rated maximum SPL 130dB (peak)

System nominal impedance 4 ohms

Power handling

Continuous /Program /Peak 800W/1600W/2400W

Suggested high pass filter 40Hz Butterworth 4th order

Suggested low pass filter 110 – 130Hz (user defined)

Drivers

Low frequency transducers 12-inch x 2

Voice coil diameter 75 mm

Voice coil winding wire Copper-clad aluminum

Magnetic motor Neodymium

Design

Design principle Asymmetrical dual chamber band pass 6th order

Hardware attachment

Internal M10" L" brackets 16 locations

Pole mount Top mount M20

Physical

Outer dimensions (H x W x D) 15 in x 27 in x 24 in
378 mm x 676 mm x 605 mm

Weight 87 lbs / 39.46 kg

Shipping dimensions (H x W x D) 20 in x 29 in x 32 in
508 mm x 737 mm x 812 mm

Shipping weight 96 lbs / 43.5 kg

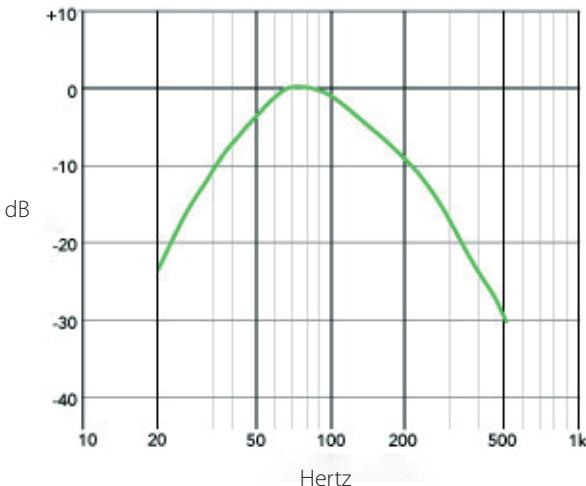


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Frequency response

Measured using ground plane technique, microphone placed at 2 meters.



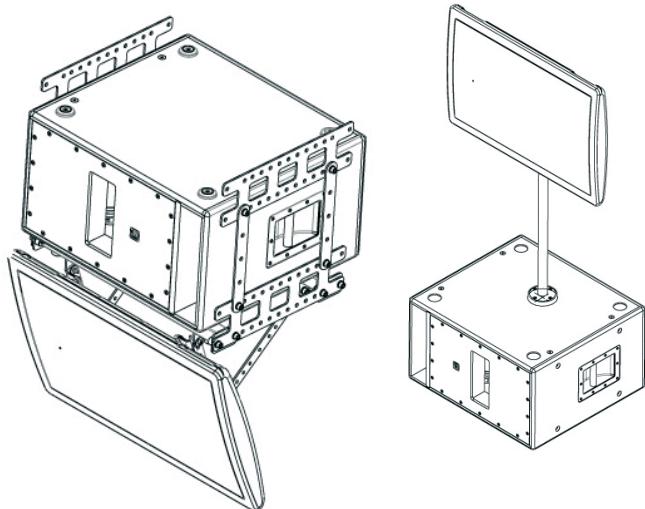
Suggested filtering/crossover

The following are the initial acoustic filters as implemented for the LS212 ground plane measurement:

High pass – Butterworth 4th order (24 dB) @ 40Hz

Peaking filter – 40Hz / Q of 1.2 / Gain of 5 dB

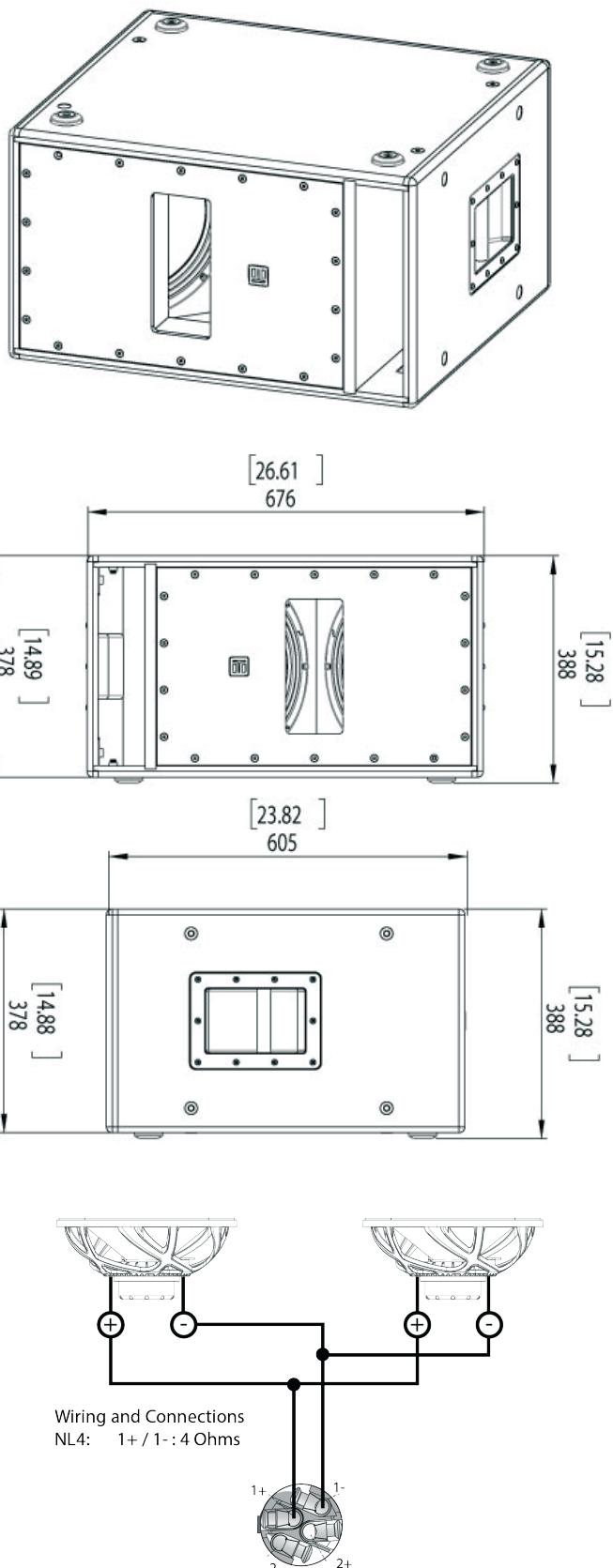
Low pass filter – Butterworth 4th order (24 dB) @ 110Hz



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Wiring and Connections
NL4: 1+ / 1- : 4 Ohms

