

FlatPanel Audio

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 16-ply birch construction with wear-resistant polymer coating
- Two recessed handles for simplified handling and carrying
- Acetyl copolymer, high impact, low friction feet are located on the bottom to allow lock-in and easy cabinet movement

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.

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.

With it's focused bass, the LS212 is an impressive complement to our 85Hz - 24kHz offerings

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
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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 676mm x 605 mm
Weight	70 lbs / 31.75 kg
Shipping dimensions (H x W x D)	21 in x 31.5 in x 33 in 533mm x 850 mm x 840 mm
Shipping weight	93 lbs / 42.3 kg

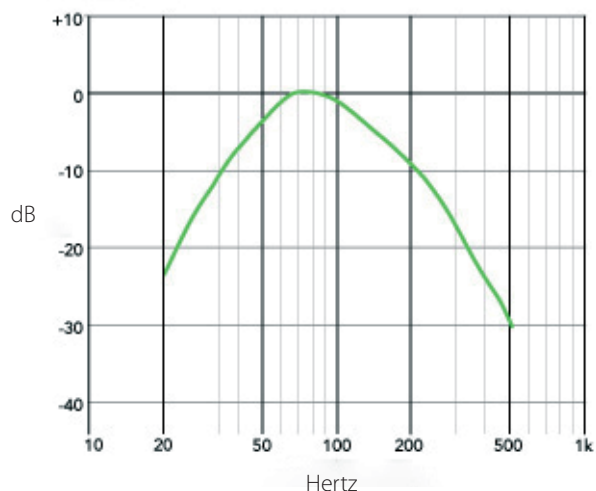
FlatPanel Audio continually engages in research related to product improvement.. Specifications are subject to change without notification.



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Frequency response

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



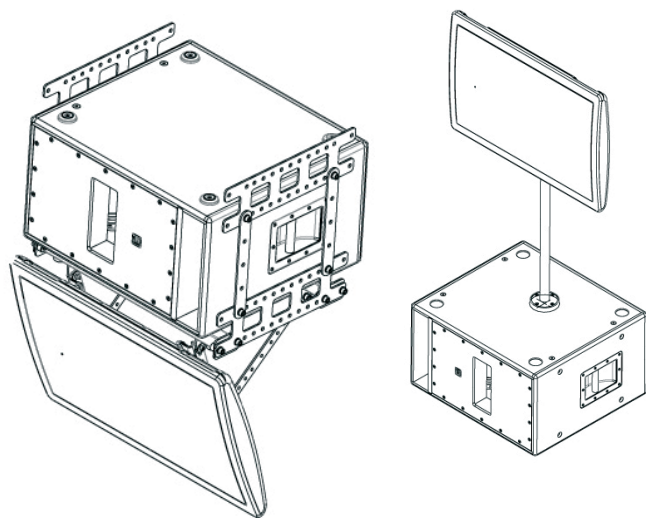
Suggested filtering/crossover

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

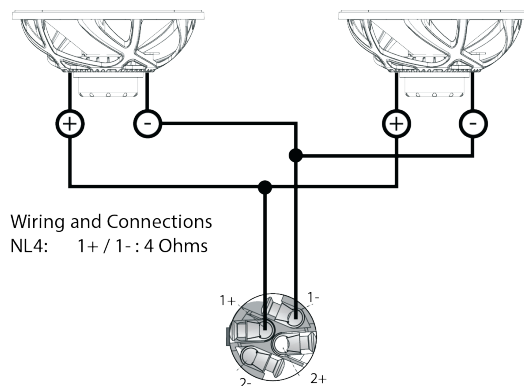
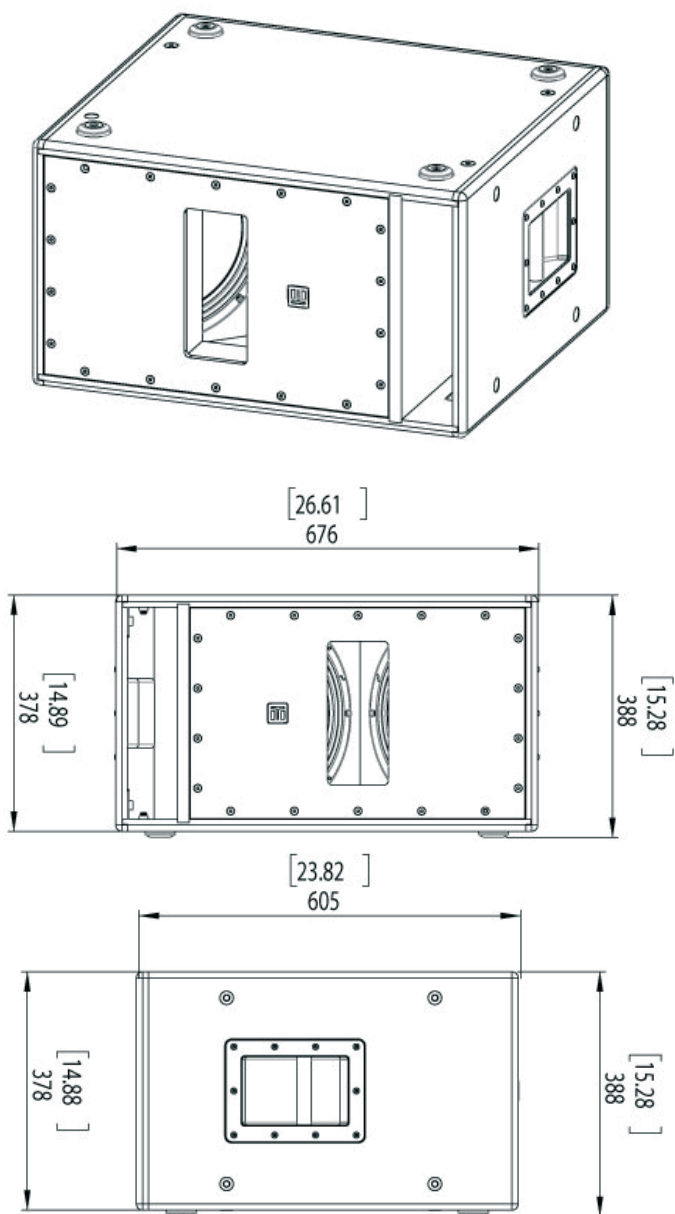
High pass – Butterworth 4th order (24 dB) @ 40Hz

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

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



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