

PERIPHERAL VISION

The Future Is Flat.

LS118 Subwoofer Info Sheet



Exclusive Distributor of

FlatPanel
AUDIO

FlatPanel Audio

LS118

Specifically designed to accompany and complement our DML500 and DML500A loudspeakers

- High output subwoofer system, bass reflex, semi horn-loaded port design
- Can be used in single, dual, and quad configurations
- Scales into dual and quad systems

Details that make it professional:

- Professional 16-ply birch construction with wear-resistant polymer coating
- Four 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

Where our DML500 loudspeaker leaves off, the LS118 takes over

Remarkably compact, this high output subwoofer delivers impressive, tight low frequencies that blend perfectly with our full-range speakers.

With an 18" direct radiating transducer, the LS118 produces high sound pressure levels with fast dynamics and musical reproduction of very low frequencies. Its 18-inch woofer is armed with massive vented magnets and 4" copper voice coil. Power handling is an impressive 3500W peak and 1200W continuous.

As a companion to our DML500 and DML500A loudspeakers, or as a tight, focused bass source for portal PA systems, the LS118 will impress your audience. The LS118 is an impressive complement to our DML500 and DML500A loudspeakers

Applications:

Churches, Performing arts centers, Educational facilities, Government facilities, Gymnasiums , Portable PA Applications and Immersive venues.



LS118 system (single)

Frequency range (-10dB)	30Hz-150kHz
Frequency response (-6dB)	36Hz-100Hz
System sensitivity	100 dB
Rated maximum SPL	138dB (peak)
System nominal impedance	8 ohms

LS118 system (quad)

Frequency range (-10dB)	30Hz-150kHz
Frequency response (-6dB)	36Hz-100kHz
Rated maximum SPL	144dB (peak)
System nominal impedance	8 ohms

Power handling

Continuous /Program /Peak	1200W/2400W/3500W
Suggested high pass filter	32Hz Butterworth 4th order
Suggested low pass filter	100-120Hz (user defined)

Driver

Low frequency transducer	18-inch woofer
Voice coil diameter	100mm
Voice coil winding wire	Copper-clad aluminum
Magnetic motor	Neodymium

Design

Design principle	Bass reflex with horn-loaded port
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Hardware attachment

Internal M10"L brackets	16 locations
Pole mount	Top mount M20

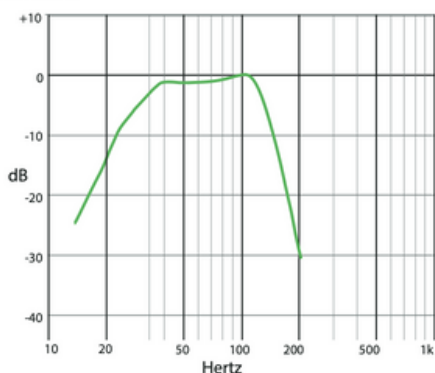
Physical

Outer dimensions (H x W x D)	28 in x 25 in x 30 in 700 mm x 622 mm x 763 mm
Weight	114 lbs / 51.7 kg
Shipping dimensions (H x W x D)	34 in x 33 in x 33 in 850 mm x 840 mm x 840 mm
Shipping weight	134 lbs / 60.8 kg

FlatPanel Audio LS118

Frequency response

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



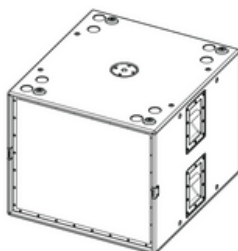
Suggested filtering/crossover

The following are the initial acoustic filters as implemented for the LS118 ground plane measurement:

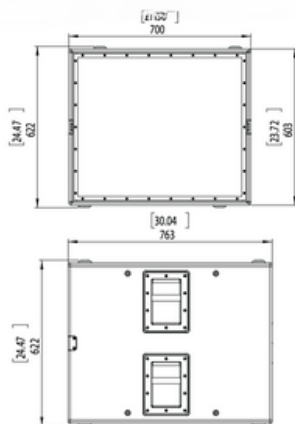
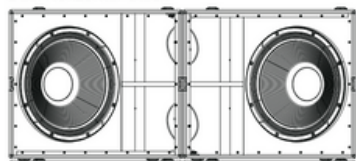
High pass - Butterworth 4th order (24 dB) @ 30Hz

Peaking filter - 35Hz / Q of 1.2 / Gain of 6 dB

Low pass filter - Butterworth 4th order (24 dB) @ 100Hz



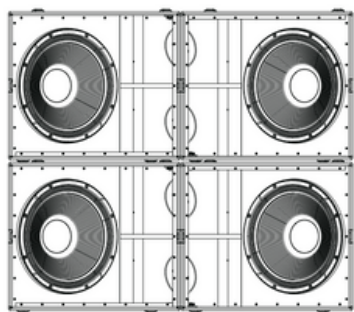
Dual Horizontal Stack



Dual Vertical Stack



Quad Stack



Accessories

FlatPanel Audio manufactures a variety of accessories and installation solutions for the LS118, allowing for seamless system integration.



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