

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 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 - 24KHz 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 |
|-------------------------|--------------|

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|---------------------------|--------------|
| Frequency response (-6dB) | 45Hz – 120Hz |
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|--------------------|-------|
| System sensitivity | 97 dB |
|--------------------|-------|

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|-------------------|--------------|
| Rated maximum SPL | 130dB (peak) |
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|--------------------------|--------|
| System nominal impedance | 4 ohms |
|--------------------------|--------|

Power handling

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

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|----------------------------|----------------------------|
| Suggested high pass filter | 40Hz Butterworth 4th order |
|----------------------------|----------------------------|

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

Drivers

| | |
|---------------------------|-------------|
| Low frequency transducers | 12-inch x 2 |
|---------------------------|-------------|

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|---------------------|-------|
| Voice coil diameter | 75 mm |
|---------------------|-------|

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|-------------------------|----------------------|
| Voice coil winding wire | Copper-clad aluminum |
|-------------------------|----------------------|

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|----------------|-----------|
| 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 |
|-----------------|------------------|

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

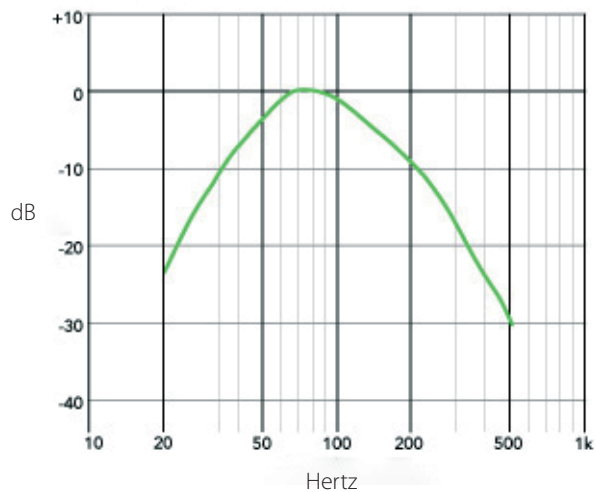


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High output dual 12-inch bass reflex subwoofer

Frequency response

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



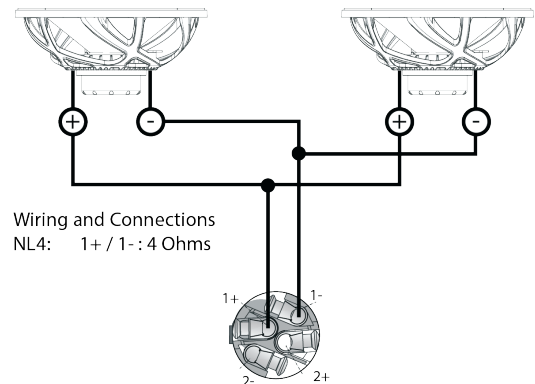
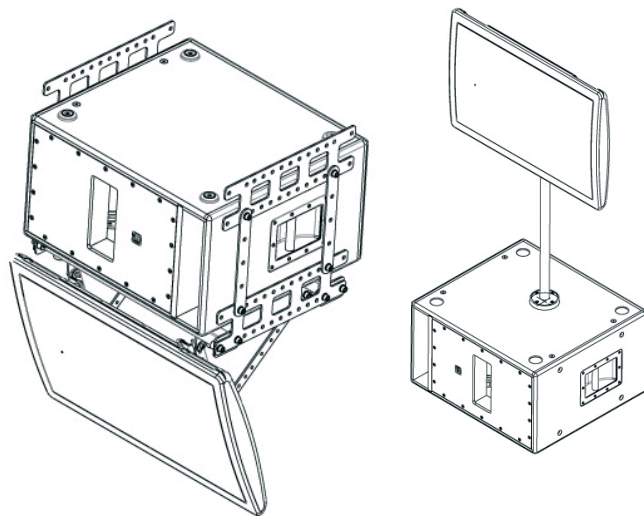
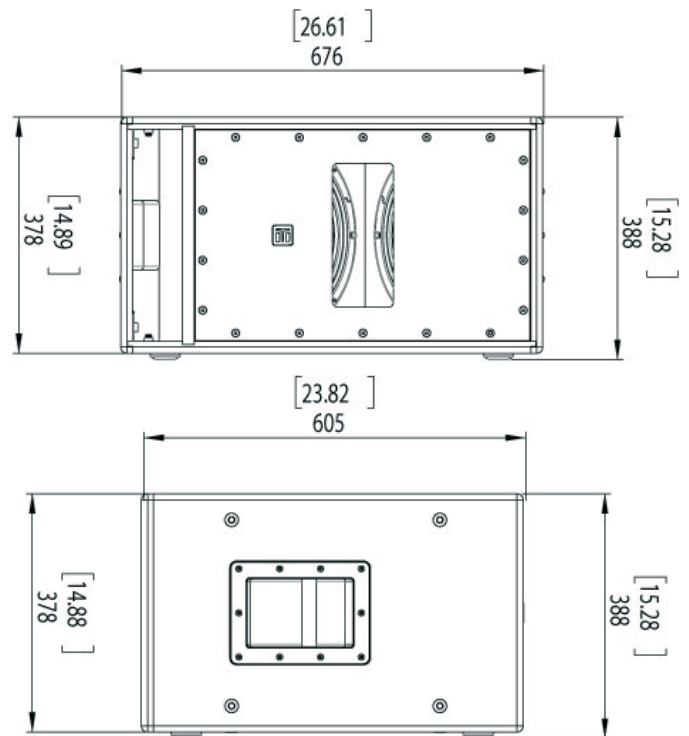
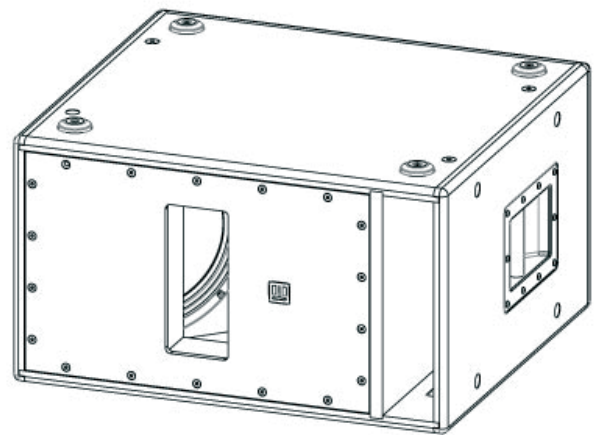
Suggested filtering/crossover

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



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