



Product Technical Data Sheet

Model LS7500

Description

The LS7500 is a full-range bi-amped true line source array module. While compact in size it meets SPL line array performance requirements for a wide variety of venues. Typical generated listening area SPL would be between 106dB and 111dB.

The LS7500 high frequency section features a high performance PRD500 planar ribbon transducer designed and manufactured by SLS Loudspeakers. The unique design and properties of the planar ribbon driver allows precise acoustical coupling of the array and hence, full utilization of line source (cylindrical waves) benefits.

The low frequency section uses two high-powered 6.5" drivers utilizing a demodulation ring magnet system providing a third less harmonic distortion and reducing inductance modulation by 50 percent. This provides an open and clear sound despite loud listening levels. Additionally, the low frequency drivers feature a die-cast basket with a patented Intercooler system.

Key Features

- Direct radiating planar PRD500 ribbon high frequency line source module delivers unsurpassed sound quality
- True line source behavior due to precise acoustical coupling of individual PRD500 high frequency transducers
- Open and clear sound at high SPL due to advanced transducer technology in all bandwidth sections
- 110 degree wide symmetrical horizontal coverage
- Even and easily predictable coverage using our free LASS prediction software.
- All array rigging is included
- Splay options from 1 to 10 degrees between boxes
- ¾" 13 ply Baltic Birch cabinet construction



Product Specifications	
Operating Range	70 - 20,000Hz
Sensitivity ¹ (1W/1M) - Low Freq.	97dB
High Freq.	101dB
Horizontal Coverage Angle ² -6dB	110 Degrees
Vertical Coverage Angle	Defined by height and configuration of the array
Power Handling ³ - Low Freq.	200W RMS (40 Volts)
High Freq.	50W RMS (18 Volts)
Max SPL (calculated) 1 Meter - Low Freq.	120dB Cont. / 126dB Peak
High Freq.	118dB Cont. / 124dB Peak
Recommended Amp Power for Max Output	
Low Freq.	400 Watts @ 8 ohms
High Freq.	100 Watts @ 8 ohms
Nominal Impedance - Low Freq.	8 Ohms
High Freq.	8 Ohms
Crossover Frequency	DSP Settings Provided
Transducers - Low Freq.	6.5" Bass/Midrange x2
High Freq.	PRD500 Ribbon
Input	NL4 x2 (Pair 1 = LF, Pair 2 = HF)
Dimensions	7.25" (18.4cm) H (front side) 4.68" (11.9cm) H (rear side) 23" (58.4cm) W 17.9" (45.5cm) D
Enclosure	13ply Baltic Birch
Weight	38lbs (17.24kg)
Rigging	All array rigging is included
Optional Accessories	RLA/4-BB - Rigging Frame
Finish Options	Black Latex White Latex (w/ white rigging) Paintable Natural Finish (w/ black rigging)

Applications

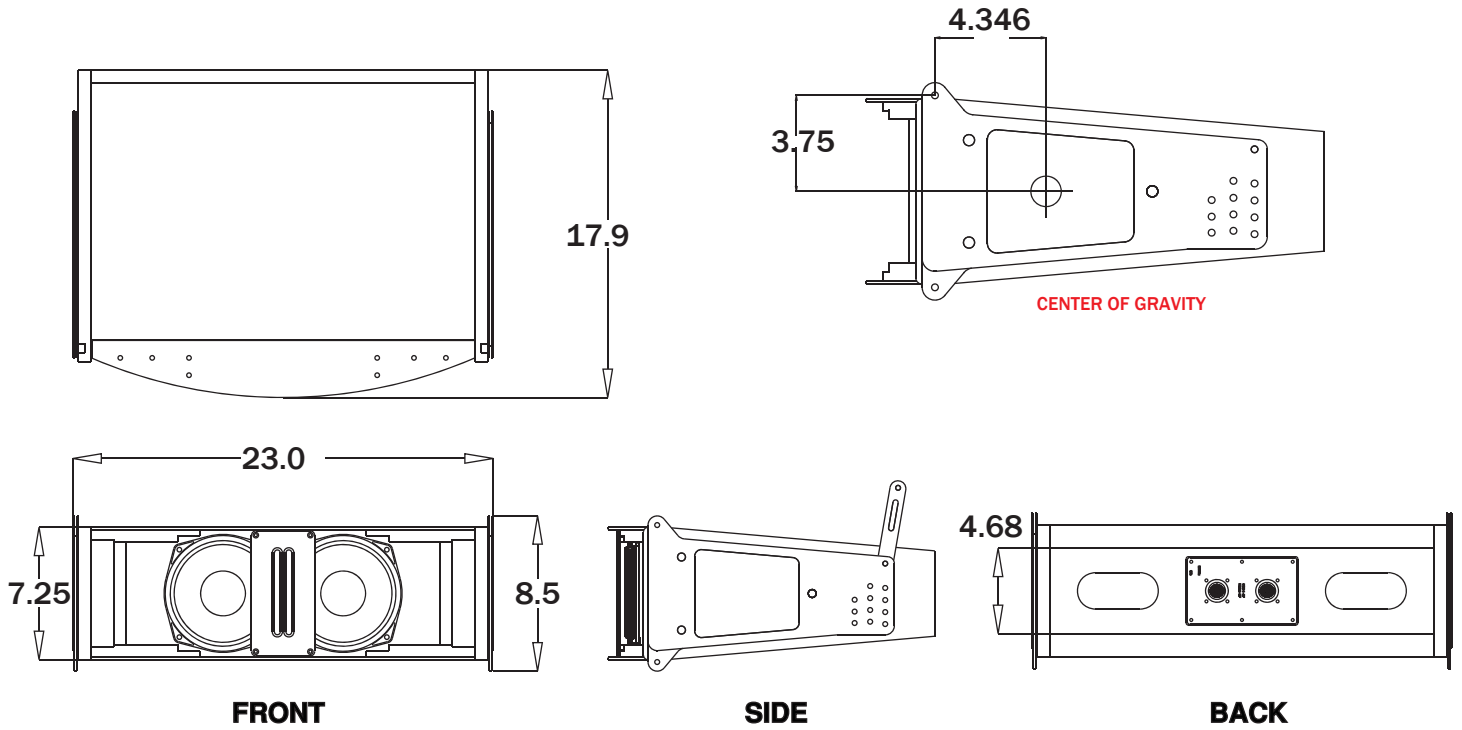
- Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required
- For permanent sound reinforcement installations in churches, auditoriums, arenas performing arts centers, etc.
- Professional portable PA system for a wide variety of applications

1. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.
2. Averaged from 500Hz to 8kHz
3. Conforms to AES2-1984 (r1997) method



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Product Drawings



Product Polars

