SUPERIOR LISTENING SYSTEMS
AUDIO CLARITY REDEFINED

Product Technical Data Sheet

Model RLA/3 (LS6500)

Description

The LS6500 is a full-range bi-amped true line source array module. The lightweight compact unit produces curved line arrays performance in a wide variety of venues where compact size is a requirement.

The LS6500 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 woofer section uses a single high definition 6 ½" driver with parameters calculated to offer a seamless transition to the PRD500 ribbon.

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
- 110 degree wide 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
- Same great performance of our popular LS8695 but with the additional capability of splaying the units thereby increasing vertical coverage possibilities

Product Specifications	
Operating Range	80 – 20,000Hz
Sensitivity[1] (1W/1m) – Low Freq. High Freq.	94dB 101dB
Horizontal Coverage Angle[2] -6dB	110 Degrees
Vertical Coverage Angle	Defined by height and configuration of the array
Power Handling[3] – Low Freq. High Freq.	100 Watts RMS 50 Watts RMS
Max SPL (calculated) 1 Meter – Low Freq. High Freq.	114dB Cont. / 120dB peak 118dB Cont. / 124dB Peak [4]
Recommended Amp Power for Max Output Low Freq. High Freq.	 200 Watts 100 Watts
Nominal Impedance – Low Freq. High Freq.	8 Ohms 8 Ohms
Crossover Frequency	DSP Settings Provided
Transducers – Low Freq. High Freq.	6.5" Woofer PRD500 Ribbon
Input	NL4 x2 Pair 1 = LF, Pair 2 = HF
Dimensions	7.25" (18.42cm) H *(front)* 5.5" (14cm) H *(back)* 14" (35.6cm) W 10" (25.4cm) D
Enclosure	13ply Baltic Birch 5deg trap
Weight	20lbs (9kg)
Rigging	All array rigging is included
Optional Accessories	RLA/3-BBS Suspension frame RC-LS6500 Road case *(holds 8 LS6500)*
Finish Options	Rugged weather resistant latex paint - in black, white, or paintable natural birch

Applications

- Developed for a wide range of professional applications where the highest quality and intelligibility of sound is required - especially effective in highly reverberant and/or elongated spaces.
- Sound reinforcement in churches and auditoriums
- 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
4. SLS Ribbon technology has the ability to produce double the peak capability (12dB) above the RMS value to that of conventional transducers. With an amplifier of 500W into 8 ohms, 12dB peaks with durations of 200msec. are possible. This means better transient response without power compression.

1650 W. Jackson Ozark, MO 65721 (417) 883-4549

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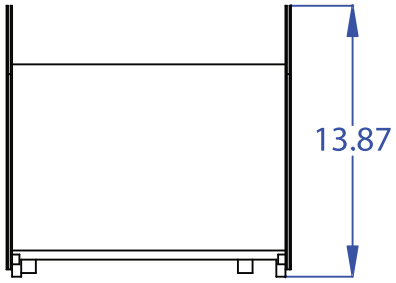
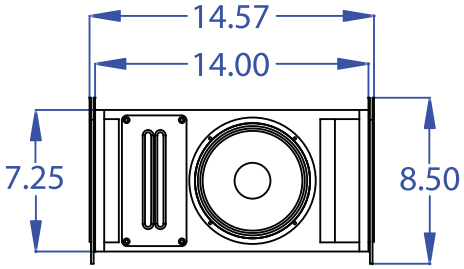
Product Drawings



TOP



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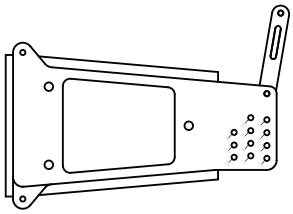

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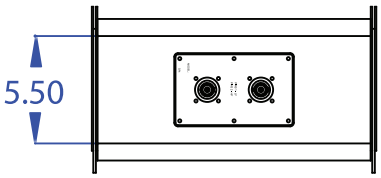
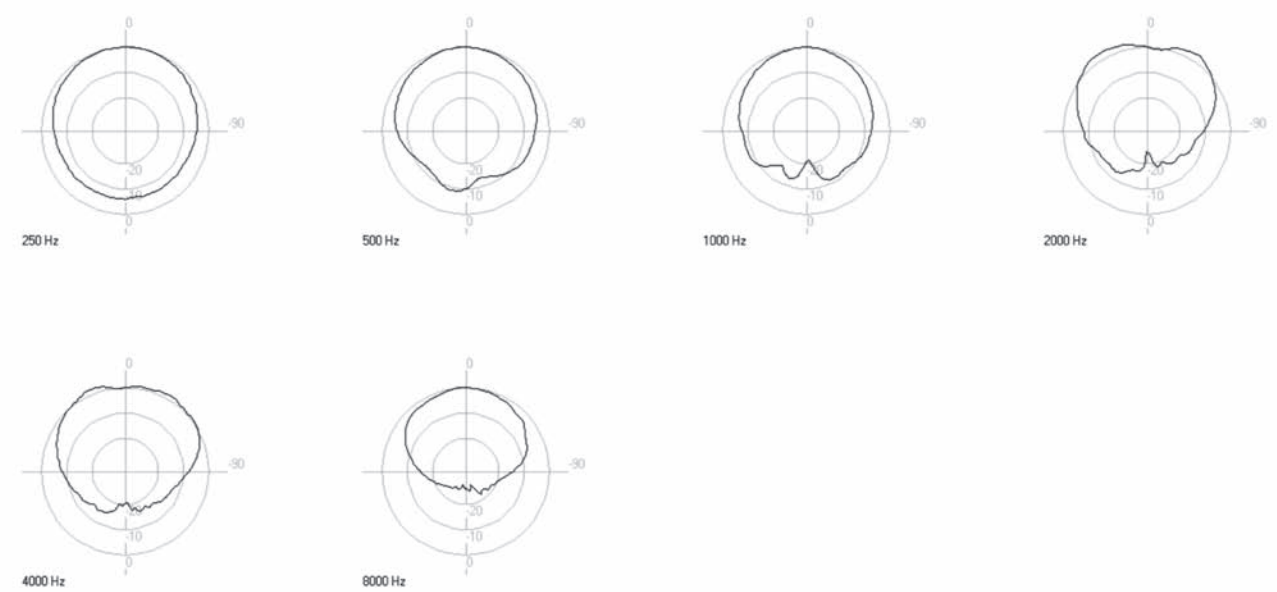


BACK

Product Horizontal Polars



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