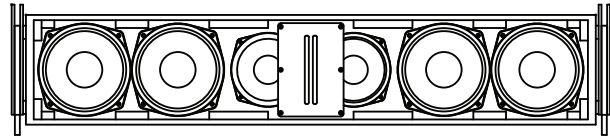




Product Technical Data Sheet
Model RLA/1.5 (LS9000)



Description

The LS9000 is a full-range tri-amped true line source array module. Its primary application is for use as a downfill module with the larger RLA1 series. It is also well suited as the primary module in stand-alone line array designs for systems in medium to large venues.

The LS9000 high frequency section features a high performance PRD1000 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 midrange section uses two 6 1/2" drivers that are the same midrange drivers used in the highly acclaimed S1065 and S1266 critical high-output studio monitors. The low frequency section uses four high-powered 8" 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. Both drivers feature a die-cast basket with patented Intercooler system.

Key Features

- Direct radiating planar PRD1000 ribbon high frequency line source module delivers unsurpassed sound quality
- True line source behavior due to precise acoustical coupling of individual PRD1000 high frequency transducers
- Open and clear sound at high SPL due to advanced transducer technology in all bandwidth sections
- 90 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
- 3/4" 13 ply Baltic Birch cabinet construction with a 1" motorboard

Applications

Developed for a wide range of professional applications where the highest quality in sound reinforcement is required

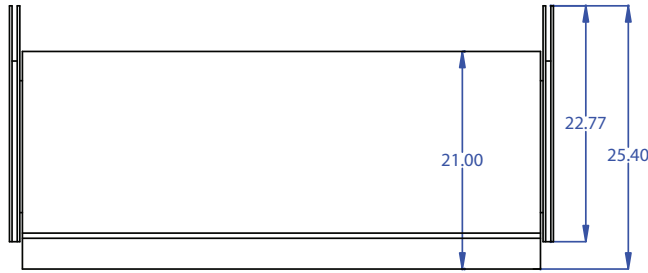
- Sound reinforcement in churches and auditoriums
- Professional Portable PA system for a wide variety of applications
- Downfill for RLA1 System

Product Specifications	
Operating Range	70 – 20,000Hz
Sensitivity ¹ (1W/1m)	Low Freq. 101dB
	Mid Freq. 100dB
	High Freq. 103dB
Horizontal Coverage Angle ² -6dB	90 Degrees
Vertical Coverage Angle	Defined by height and configuration of the array
Power Handling ³ – Low Freq.	1000 Watts RMS ⁴
	Mid Freq. 500 Watts RMS
	High Freq. 70 Watts RMS
Max SPL (calculated) 1 Meter – Low Freq.	131dB Cont. / 137dB peak
	Mid Freq. 127dB Cont. / 133dB peak
	High Freq. 121dB Cont. / 127dB Peak ⁵
Recommended Amp Power for Max Output	2000 Watts
	Mid Freq. 1000 Watts
	High Freq. 140 Watts
Nominal Impedance – Low Freq.	8 Ohms x2
	Mid Freq. 8 Ohms
	High Freq. 8 Ohms
Crossover Frequency	DSP Settings Provided
Transducers – Low Freq.	4 x 8" Bass drivers
	Mid Freq. 2 x 6.5" Mid drivers
	High Freq. 1 PRD1000 Ribbon
Input	NL8 x2 Pairs 1 & 2 =LF
	Pair 3 = MF, Pair 4 = HF
Dimensions	9.62" (24.4cm) H (<i>front</i>)
	6.56" (16.67cm) H (<i>back</i>)
	50" (127cm) W
	21" (53.3cm) D
Enclosure	13ply Baltic Birch 5deg trap
Weight	142lbs (64.5kg)
Rigging	All array rigging is included
Optional Accessories	RLA/1-BBS Small Rigging Frame ⁶
	RLA/1-BBL Large Rigging Frame ⁶
	RC-LS9000 Road case (<i>holds 2 LS9000</i>)
Finish Options	Rugged weather resistant latex paint - in black, white, or paintable natural birch

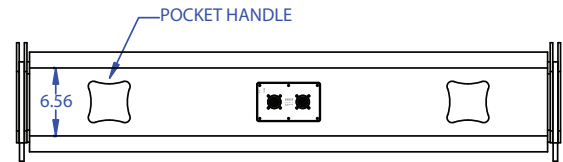
1. Full bandwidth pink noise is applied and amplified to a level and measured at the loudspeaker terminals - corresponding to 1 Watt as referenced to the loudspeakers nominal impedance. SPL is measured in an anechoic environment in the loudspeakers far field. Data is extrapolated to 1 Meters distance from the loudspeaker.
2. Averaged from 500Hz to 8kHz
3. Conforms to AES2-1984 (r1997) method
4. Power handling of each pair of 8" drivers in parallel (NL8 pin pairs 1 and 2).
5. 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 1000W into 8 ohms, 12dB peaks with durations of 200msec. are possible. This means better transient response without power compression.
6. RLA1/BBS weighs 64lbs (29kg). RLA1/BBL weighs 152lbs (68.95kg)



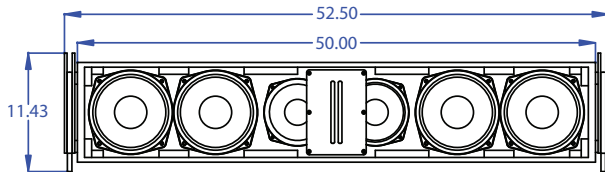
Product Drawings



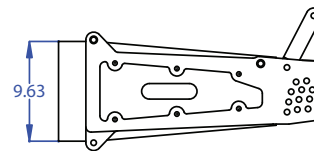
TOP



BACK



FRONT



SIDE

Product Horizontal Polars

