SUPERIOR LISTENING SYSTEMS
AUDIO CLARITY REDEFINED

Product Technical Data Sheet

Model LS7500v2 / LS7500v2-I

Description

The LS7500v2 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 will be between 106dB and 111dB.

The LS7500v2 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 Neo motor structure 6.5" drivers for improved midrange performance and power handling.

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

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

Product Specifications	
Operating Range [1]	80Hz - 20,000Hz
Sensitivity (1W/1M) - Low Freq. [2]	95dB
High Freq.	101dB
Horizontal Coverage Angle -6dB [3]	110 Degrees
Vertical Coverage Angle	Defined by height and configuration of the array
Power Handling - Low Freq. [4]	250W (45 Volts) AES/2
High Freq.	145W (32 Volts) IEC Short Term
	46W (18 Volts) IEC Long Term
	35W (15.6 Volts) AES/2
Recommended Amp Power for Max Output	
Low Freq.	500 Watts @ 8 ohms
High Freq.	150 Watts @ 8 ohms
Max SPL (calculated) 1 Meter - Low Freq.[5]	119dB Cont. / 125dB Peak
High Freq.	118dB Cont. / 123dB Peak
Nominal Impedance - Low Freq.	8 Ohms
High Freq.	7 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)
	Barrier Strip on I version
Dimensions	7.22" (18.4cm) H (front side)
	4.67" (11.9cm) H (rear side)
	22.44" (58.4cm) W
	17.91" (45.5cm) D
Enclosure	13ply Baltic Birch
Weight	38lbs (17.24kg) Shipping 47lbs (21.3kg)
Rigging	All array rigging is included
Optional Accessories	RLA/4-BB - Rigging Frame [6]
	RC.RLA/4 - Road case for (4) LS7500
	RC.RLA/4-6 - Road case for (6) LS7500
Finish Options	Black Latex
	White Latex (w/ white rigging)
	Paintable Natural Finish (w/ black rigging)

1. LF at -10dB, HF -6dB at 40kHz on-axis however response above 20kHz is limited by air absorption and DSP sampling rates in typical PA applications.
2. 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.
3. Averaged from 1000Hz to 10kHz
4. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard. IEC stated in RMS voltage according to IEC 268-5
5. Typical SPL for one box only, for array SPL refer to LASS calculations. Ribbon SPL calculated from IEC long term and short term
6. Rigging Frame weight is 30lbs

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

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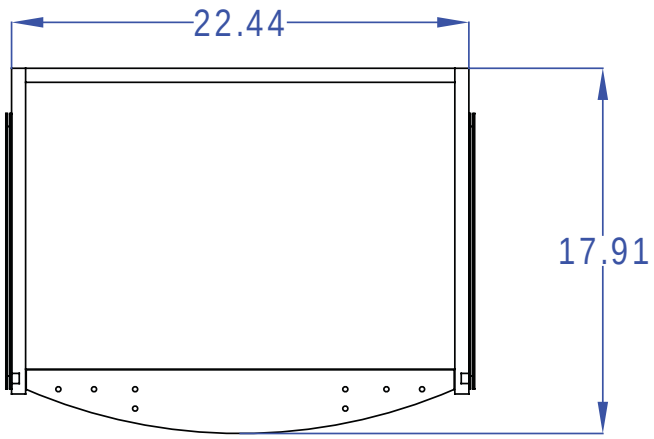
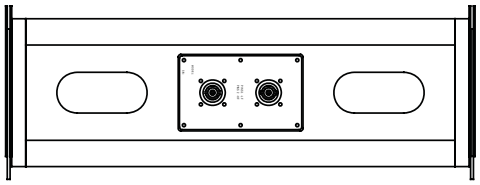
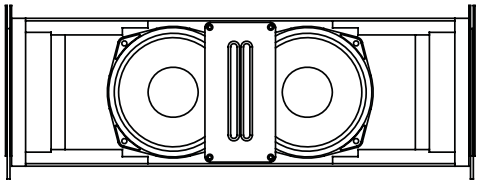
LS7500v2 / LS7500v2-I Drawings

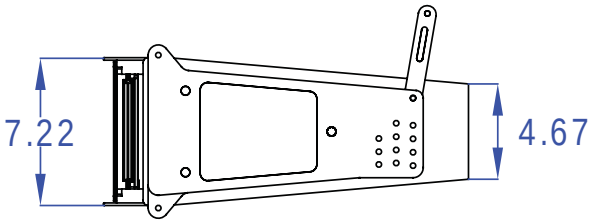




BACK



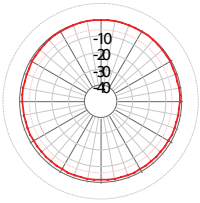
FRONT



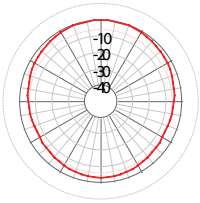
SIDE

Polars

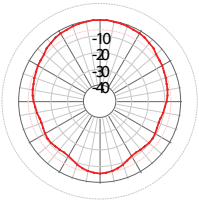
Horizontal Axis



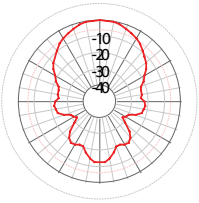
125Hz



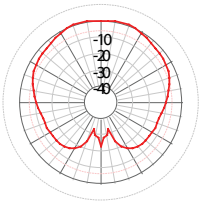
250Hz



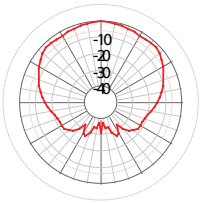
500Hz



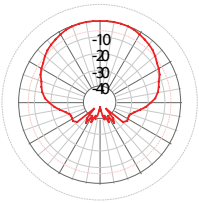
1000Hz



2000Hz



4000Hz



8000Hz

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