



Product Technical Data Sheet

Cinema System 400

Description

The Cinema System 400 is a full range tri-amped screen channel loudspeaker for large sized auditoriums.

The System 400 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 delivers fast transient accuracy as well as an exceptionally smooth high frequency response. Also the unique properties of the planer ribbon driver delivers more direct sound to the audience even with screen spreading.

The mid frequency section uses two high-powered 8" drivers utilizing a demodulation ring magnet system resulting in a third less harmonic distortion and reducing inductance modulation by up to 50 percent. This provides for an open and clear sound despite loud listening levels. The drivers also feature a die-cast basket containing patented Intercooler systems for additional power handling.

A pair of dual 15" bass boxes compliment the powerful mid/high section with effortless bass reproduction in the largest of auditoriums.

Key Features:

- PRD1000 ribbon high frequency line driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology in all bandwidth sections
- 90 x 40 degree dispersion pattern (not including screen scattering)
- ¾" 13 ply Baltic Birch cabinet construction
- Included U-Bracket for easy installation and aiming

Applications

Developed for high performance cinema applications where the highest quality and intelligibility of sound is required

- Behind Screen LCR



Product Specifications	
Operating Range	39Hz - 30,000Hz
Overall Sensitivity (1W/1M) ¹	102dB
Horizontal Coverage Angle -6dB ²	80 Degrees
Vertical Coverage Angle -6dB ²	40 Degrees
Power Handling - Low ³	800W RMS (56.6 Volts) AES/2 x2
Mid	500W RMS (64 Volts) AES/2
High	385W (50 Volts) IEC Short Term
	104W (26 Volts) IEC Long Term
	60W (20 Volts) AES/2
Overall Max SPL (calculated) 1 Meter	129dB Cont. / 135dB Peak
Rcmd Amp Power for Max Output - Low	1600 Watts @ 4 ohms x2
Mid	1000 Watts @ 8 ohms
High	400 Watts @ 8 ohms
Nominal Impedance - Low	4 Ohms x2
Mid	8 Ohms
High	6 Ohms
Crossover Frequency	DSP Settings Provided
Transducers - Low Freq.	15" Woofer x4 (in two cabinets)
Mid Freq.	8" Midrange x2
High Freq.	PRD1000 Ribbon
Input	Barrier Strips
Largest Overall Dimensions	83.9" (213.1cm) H
	33" (83.8cm) W
	16" (40.6cm) D
Enclosure	13ply Baltic Birch
Weight	280lbs (127kg) Shipping 333lbs (151kg)
Included Rigging	U-Bracket for HF/MF to LF box attachment
Finish	Flat Black Latex

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. AES established with ambient temperature at 22C in accordance with AES/2-1984 standard.



Cinema System 400 Drawings

