



# CS50

CINEMA SCREEN CHANNEL SPEAKER SYSTEM

SLS AUDIO A DIVISION OF DOLBY LABORATORIES 1650 W. JACKSON OZARK, MO 65721 417-323-7000

## TECH DATA SHEET



### Description:

The CS50 is a full-range, passive screen channel cinema loudspeaker for small auditoriums. The high frequency section features a high performance PRD500 planar ribbon transducer designed and manufactured by SLS Audio.

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 planar ribbon driver delivers more direct sound to the audience, even considering the effect of screen spreading.

With a low frequency section that utilizes a 12" woofer, the front ported enclosure has a bass extension down to 40Hz and is well suited for small theaters with 50-75 seats.

### Key Features:

- ◆ PRD500 planar ribbon, high frequency driver delivers unsurpassed sound quality
- ◆ Open and transparent sound even at high SPL due to advanced transducer technology in all bandwidth sections
- ◆ 90 x 40 degree dispersion pattern (not including screen scattering)
- ◆ 13-ply 3/4" 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

### Specifications/CS50\*

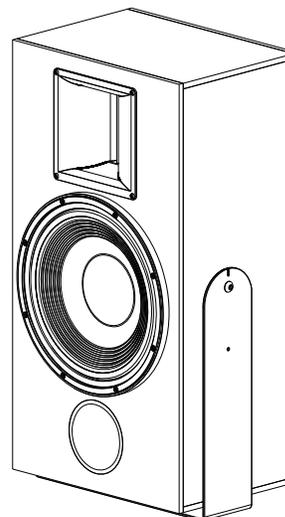
Operating Range	40Hz to 20kHz
Sensitivity (1W@1M) <sup>1</sup>	99dB
Horizontal Coverage -6dB <sup>2</sup>	90degs
Vertical Coverage -6dB <sup>2</sup>	40degs
Power Handling <sup>3</sup>	120W (31V) AES/2
Recommended Amplifier	400W
Max SPL (calculated) 1M	120dB continuous/126dB peak
Nominal Impedance	8 ohms
Crossover Frequency	Passive
Transducers	LF 12" HF PRD500 Ribbon Driver
Input	Barrier Strip
Dims	27.4"H (695mm ) 14.7"W (373mm) 10.5"D (266mm)
Enclosure	13 ply Baltic birch
Net Weight	49 lbs.
Rigging	U-Bracket (included)
Optional Accessories	-
Finish Options	Flat Black Latex

\*Due to product improvement research, SLS Audio reserves the right to make changes to existing products without notice.

1. A sine wave sweep is applied to a voltage level measured at the loudspeaker terminals corresponding to 1W@1M as referenced to the loudspeakers nominal impedance and the measuring distance. SPL is measured in an anechoic environment in the loudspeakers far field with the exception of subwoofers which are measured in half space. Sensitivity is determined by a Log/Log averaging method from 315Hz to 16kHz in the anechoic environment. Subwoofers use the same method with the half space measurement but within their specified operating bandwidth.

2. Averaged from 500Hz to 8kHz

3. AES established in accordance with AES/2-2012 standard.





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