



Product Technical Data Sheet

**Model CS890S**

Description

The CS890S is a high quality single 8" two-way passive design. It serves as a theater surround sound source module.

The CS890S 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 for a very clear delivery and transient accuracy even at the limits of its performance. The PRD500 is contained within a 90 degree die cast aluminum waveguide.

The CS890S contains an audiophile grade crossover delivering smooth response and consistent polar patterns throughout the crossover region.



Key Features:

- PRD500 ribbon high frequency driver delivers unsurpassed sound quality
- Open and clear sound at high SPL due to advanced transducer technology
- Small format

Product Specifications	
Operating Range	70 – 30,000Hz
Sensitivity <sup>1</sup> (1W/1m)	91dB
Horizontal Coverage Angle <sup>2</sup> -6dB	90 Degrees
Vertical Coverage Angle <sup>2</sup> -6dB	30 Degrees
Power Handling <sup>3</sup>	100 Watts RMS
Max SPL(calculated) @ 1 Meter	110dB Cont. / 116dB Peak <sup>4</sup>
Recommended Amp Power for Max Output	200 Watts
Nominal Impedance	4 Ohms
Crossover Frequency	1800Hz
Transducers – High Freq.	PRD500 Ribbon
Low Freq.	8" Woofer
Input	Binding Posts
Dimensions	18.5" (47cm)H
	15.5" (39.4cm)W
	10.41" (26.4cm)D Top
	5.44" (13.8cm) D Bottom
Enclosure	MDF
Weight	24lbs (10.9kg)
Rigging	Attachment Points for 3 <sup>rd</sup> Party Brackets
Finish Options	Rugged Black Latex Paint

Applications

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

- Surround Source

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.



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# Product Drawings

