SCS 8
Spatially Cued Surround
Loudspeaker
2-Way Coaxial with 8” LF

Key Features:

- 250 Watt power handling (average continuous pink noise) with high sensitivity provides high SPL capability.
- Consistent 120° x 120° broadband pattern control
- Extraordinary clarity cinema surround with extended frequency response for special effects
- Components:
  - 200 mm (8 in) woofer with Kevlar-reinforced cone and 50 mm (2 in) voice coil.
  - 25 mm (1 in) exit compression driver with unique patented design and high temperature polymer diaphragm.
- 70 Hz – 20 kHz frequency response
- High-power passive crossover network
- Overload protection

Applications:

The SCS 8 is a coaxial-driver, 2-way, full-range cinema surround loudspeaker ideal for multi-channel surround formats and is designed for overhead installation as well as for standard on-wall installations.

The SCS 8 is comprised of a high-power coaxial 200 mm (8 in) low frequency driver and 25 mm (1 in) high frequency compression driver. The coaxial design utilizes a unique tapered pole-piece design and transitions to the cone of the low frequency driver as a large diameter pattern control horn for the high frequencies, both eliminating high-frequency beaming and extending pattern control to the lowest possible frequencies. The result is a coaxial speaker with wide, extremely consistent 120° coverage on a broadband basis.

Component features include a Kevlar-reinforced low-frequency cone for reliability, well-damped surround edge for smooth frequency response, high-temperature voice coil and a reduced distortion design through saturated-gap magnet geometry. The high-frequency compression driver features a unique patented design, high-temperature polymer diaphragm, and fluid cooling for high output levels with low distortion.

The enclosure is constructed of thick, ABS plus fiberglass and is heavily braced to maximize low-frequency performance.

A heavy-duty zinc-rich U-type mounting bracket is included.

Specifications:

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<tr>
<th>System</th>
<th>Frequency Range (-10 dB): 70 Hz – 20 kHz</th>
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<tbody>
<tr>
<td></td>
<td>Frequency Response (±3 dB): 90 Hz – 20 kHz</td>
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<td>Coverage Pattern: 120° x 120°</td>
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<td>Directivity Factor: 8.1 (1 k – 10 kHz)</td>
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<td>Directivity Index (DI): 8.4 dB (1 k – 16 kHz)</td>
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<tr>
<td>Long-Term System Power Rating (IEC): 250 W 2 hrs, 200 W 100 hrs</td>
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<td>Sensitivity (2.83V @ 1m): 94 dB (Ave. 90 Hz – 20 kHz)</td>
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<td>Maximum SPL: 118 dB (peaks of 124 dB) @ 1m</td>
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<td>Crossover Network: 2.1 kHz, 3rd order (18 dB/oct) high-pass plus conjugate to HF, 2nd order low-pass to LF</td>
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<td>Nominal Impedance: 8 ohms</td>
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Transducers:

- Low Frequency Driver: Kevlar-reinforced cone with weather treatment, 50 mm (2 in) voice coil
- High Frequency Driver: 25 mm (1 in) diaphragm and voice coil diameter, high temperature polymer diaphragm, patented design, fluid-cooling
- HF Driver Protection: Minimum audibility SonicGuard™ HF overload protection

Physical:

- Enclosure: ABS with Glass enclosure
- Attachment: Two M10 points for included U-bracket. M6 secondary safety attachment point on back panel
- Grille: Corrosion-resistant zinc-rich steel grille
- Input Connection: CE-compliant covered barrier strip terminals, Barrier terminals accept up to 9 mm outside 4 mm inside open-lug (#6, #8 or #10) plus bare wire up to 2.5 mm² (12 AWG) wire or spade lugs.
- Dimensions: 300 x 300 x 305 mm (11.8 x 11.8 x 12.0 in), cabinet 359 mm (14.2 in) including bracket extending to back
- Colors: Black
- Net Weight: 8.2 kg (18 lb), 10.0 kg (22.0 lb) with U-Bracket
- Shipping Weight: 11.4 kg (25.0 lb)
- Included Accessories: U-bracket, steel

JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.
SCS8 Spatially Cued Surround, 2-Way Coaxial Loudspeaker with 8" LF

Frequency Response in half-space (2π, solid line) and full-space (4π, dotted line)

Beamwidth vs. Frequency

Off-Axis Frequency Response

Impedance

Dimensions

Attaching U-Bracket to Cabinet

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