

8340 High Power Cinema Surround Speaker for Digital Applications

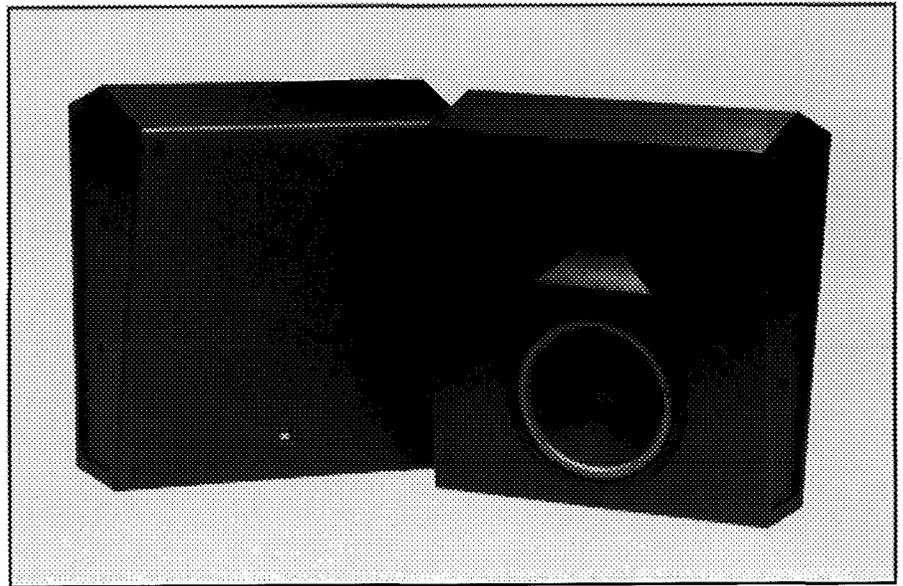
Professional Series

Key Features:

- ▶ Frequency range: 45 Hz - 18 kHz
- ▶ High Sensitivity: 96 dB (1 W, 1 m)
- ▶ High Power Handling Capability: 150 watts pink noise
- ▶ Similar size enclosure to the successful 8330, allowing simple installation into existing systems
- ▶ In-cabinet mounting hardware accepts JBL 2502 wall brackets for fast installation
- ▶ D Crossover switchable between ISO2969 cinema surround rolloff and flat response
- ▶ Uniform horizontal and vertical coverage
- ▶ Approved by Lucasfilm, Ltd. for THX® installations

The 8340 Cinema Surround Speaker offers high power handling capability, high sensitivity and extended bass response in an extremely compact enclosure. The two-way 8340 incorporates the proven reliability and performance features found in the industry standard JBL 8330 Surround Loudspeaker System and is designed to accurately reproduce the extended dynamic range and frequency response characteristics required by digital sound formats.

The 8340 incorporates a high-power, long-throw 250 mm (10 in) low frequency transducer which extends the frequency response to below 50 Hz. The low frequency driver features an SFG (Symmetrical Field Geometry) magnet structure which lowers second harmonic distortion to inconsequential levels. The high frequency section incorporates a 19 mm (3/4 in) compression driver/horn combination capable of very high output power. The true constant directivity coverage (100° horizontal by 60° vertical), combines with a very smooth off-axis design in the crossover range to provide the same sound character to all seats.



Specifications:

SYSTEM:	
Frequency Range (10 dB):	45 Hz - 18 kHz
Power Rating ¹ :	150 watts continuous pink noise
Sensitivity ² :	96 dB, 1 watt (2.83 V) at 1 meter (3.3 ft)
Nominal Impedance:	8 ohms
Crossover Frequency:	2kHz
Downward Firing Angle:	Nominal 15° when mounted flush on back panel
High Frequency Contour Switch:	2 positions: Flat and ISO2969 Curve X surround contour
Polarity:	EIA, red = +
LOW FREQUENCY LOUDSPEAKER:	
Nominal Diameter:	280 mm (10 in)
Voice Coil Diameter:	50 mm (2 in)
HF DRIVER/HORN:	
Nominal Diameter:	19 mm (3/4 in)
Voice Coil Diameter:	25 mm (1 in)
Characteristics:	Ferro-fluid cooled
Coverage Pattern:	100° H x 60° V
GENERAL:	
Finish:	Black vinyl
Grille Color:	Dark gray
Input Terminations:	Dual five-way binding posts
Dimensions:	539 mm x 481 mm x 304 mm
H x W x D:	21 1/4 in x 19 in x 12 in
System Net Weight:	50 lbs.

¹ Rating based on test signal of IEC filtered random noise with a peak-to-average ratio of 6 dB, two hours duration.

² Sensitivity is based on a swept 500 Hz to 2.5 kHz signal for an input of 2.83 V @ 8 ohms

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Very high power handling (150 watts continuous, with peaks of 600 watts) gives the 8340 the extended dynamic range required by digital soundtracks. This power headroom also provides additional reliability.

The 8340 incorporates a true ISO2969 cinema surround rolloff curve, which is switchable to flat response for installations where the speaker is mounted behind any material or curtaining which can block high frequencies.

The same width and style cabinet as the 8330 allows installation into existing systems. In-cabinet mounting hardware accepts Omnimount® or wall brackets for fast installation. Built to traditional JBL standards of precision, the 8340 will continue to deliver exceptional performance year after year, without special care or attention.



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