



3730

Three-Way Bi-Amplified/Passive ScreenArray® Cinema Loudspeaker System

Professional Series

Application:

Cost effective cinema sound reproduction in small to medium cinemas

Key Features:

- ▶ Three-Way ScreenArray® design for maximum output, optimal coverage, and minimum distortion.
- ▶ Bi-amplified or fully passive switchable operation
- ▶ SSC™ Screen Spreading Compensation
- ▶ New molded Optimized Aperture Waveguide technology for ultra low distortion and extremely uniform frequency response
- ▶ Low Frequency section features dual 15" transducers with ribbon wire voice coils for low distortion and high efficiency.
- ▶ Flat Front Wave Guide design for easy baffle wall installation
- ▶ Shallow profile for minimum behind screen depth requirements.

Today's cinemas require perfect coverage in every seat of the auditorium, wide dynamic range and extended bandwidth, as well as inaudible levels of distortion. Digital soundtracks require sound systems for premier auditoriums that can accurately reproduce the sound exactly as recorded.

The 3730 ScreenArray provides smooth and accurate reproduction of cinema soundtracks in a compact and very cost effective system. The ScreenArray horn features a patented design that compensates for high frequency spreading caused by perforated screens for greatly improved audience coverage.

The 3730 ScreenArray is enhanced by advanced engineering. JBL's latest technical innovations are integrated into a system design that provides superior coverage, maximum power handling, and uniform acoustic power output, along with extremely low distortion. The ScreenArray design provides ideal power response and directivity control with seamless transitions between acoustic sections.



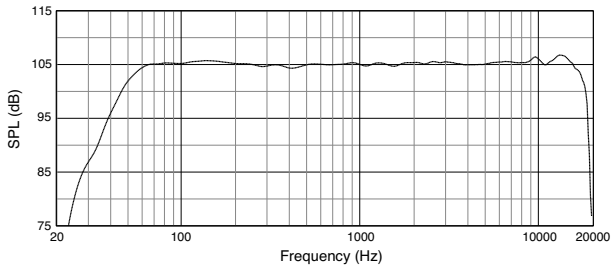
System Specifications:

Frequency Range:	30 Hz - 18 kHz
System Sensitivity:	105 dB, 2.83V @ 1 m (3.3 ft)
Nominal Impedance:	4 ohms
Passive System	
Input Power Rating:	600 W
Bi-Amp System	
Input Power Rating:	LF: 500 W
	M/HF: 125 W
Nominal Coverage:	90° horizontal, -30°/+20° vertical
Crossover Frequency:	450 Hz, 2 kHz
Dimensions (HxWxD):	173.4 mm x 762 mm x 450 mm (68.25 in x 30 in x 17.75 in)
Net Weight:	67.1 kg (147 lbs.)
Shipping Weight:	78.1 kg (172 lbs.)
Component Elements	
3739 Low Frequency:	Two M115-8A 380 mm (15 in) dia., 61 mm (2.5 in) edgewound ribbon voice coil transducers mounted in a 4509 LF enclosure
Dimension (HxWxD):	883 mm x 762 mm x 450 mm (34.75 in x 30 in x 17.75 in)
Net Weight:	56 kg (123 lbs.)
Shipping Weight:	64.5 kg (142 lbs.)
Model 3730-M/HF	
Nominal Impedance:	4 ohms [MF: 8 ohms, HF: 8 ohms]
Input Power Rating:	125 watts AES; 300 watts recommended amplifier
Sensitivity:	105 dB SPL, 2.83V @ 1 m (3.3 ft)
	[MF: 110 dB SPL, 2.83V @ 1 m (3.3 ft)]
	[HF: 112 dB SPL, 2.83V @ 1 m (3.3 ft)]
Input Connectors:	Screw terminal barrier strip
Mid Frequency:	1 x 195H; 165.1 mm (6.5 in) dia., 38 mm (1.5 in) voice coil
High Frequency:	2414H, 25 mm (1 in) polymer diaphragm, neodymium compression driver
Dimensions (HxWxD):	852 mm x 762 mm x 360 mm (33.5 in x 30 in x 14.1 in)
Net Weight:	11.1 kg (24 lbs.)
Shipping Weight:	13.6 kg (30 lbs.)

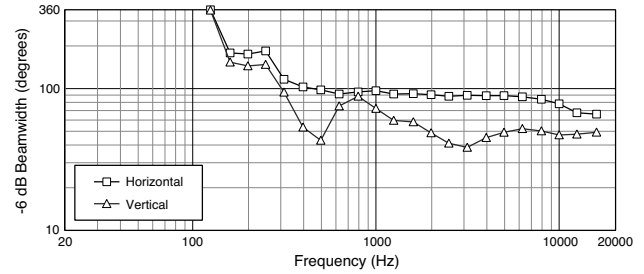
JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

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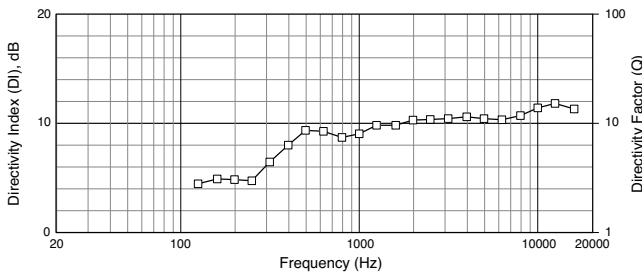
Frequency Response in half-space (2π)



Bandwidth vs. Frequency

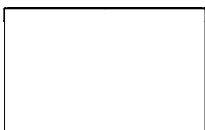
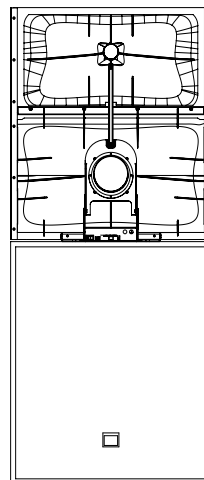
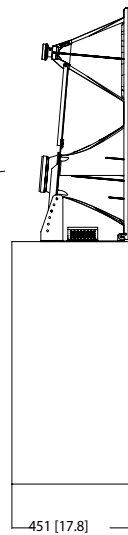
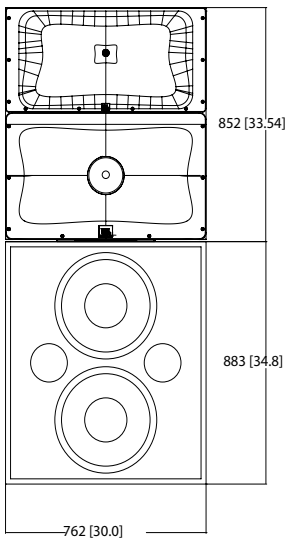
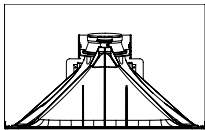


Directivity Index and Directivity Factor



Dimensions

Dimensions in mm (in)



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