

3730

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



Key Features:

- Three-way ScreenArray® design for maximum output, optimal coverage and minimum distortion
- Bi-amplified or fully passive switchable operation (tri-amp option available)
- SSC™ Screen Spreading Compensation
- 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 waveguide design for easy baffle wall installation
- Shallow profile for minimum behind-screen depth requirements



Description:

Today's premier 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.

Specifications:

System			
Frequency Range	30 Hz – 18 kHz	Dimensions (H x W x D)	883 mm x 762 mm x 450 mm (34.75 in x 30 in x 17.75 in)
Nominal Coverage	90° horizontal, -30°/+20° vertical	Net Weight	56 kg (123 lbs)
Net Weight	67.1 kg (147 lbs)	Shipping Weight	64.5 kg (142 lbs)
Shipping Weight	78.1 kg (172 lbs)	M/HF Component Electronics – Model 3730-M/HF	
Dimensions (H x W x D)	173.4 mm x 762 mm x 450 mm (68.25 in x 30 in x 17.75 in)	Mid Frequency Transducer (Ships Fully Assembled)	1 x 195H, 165 mm (6.5 in) diameter, 38 mm (1.5 in) voice coil
Passive System		High Frequency Transducer (Ships Fully Assembled)	1 x 2414H, 25 mm (1 in) polymer diaphragm, neodymium compression driver
Crossover Frequencies	450 Hz, 2 kHz	Input Connectors	Screw terminal barrier strip
System Sensitivity	105 dB SPL, 2.83 V @ 1 m (3.3 ft)	Device Nominal Impedance	MF: 8 ohms HF: 8 ohms
Nominal Impedance	4 ohms	M/HF Nominal Impedance	4 ohms
Minimum Impedance	2.7 ohms @ 150 Hz	M/HF Minimum Impedance	3 ohms @ 1850 Hz
Input Power Handling (AES 100-Hour Rating)	600 W	Device Sensitivity	MF: 104 dB SPL, 2.83 V @ 1 m (3.3 ft) HF: 106 dB SPL, 2.83 V @ 1 m (3.3 ft)
Bi-Amp System		M/HF Free-Field Sensitivity	105dB, 2.83 V @ 1m
Input Power Handling (AES 2-Hour Rating)	LF: 500 W M/HF: 125 W	M/HF Input Power Handling (AES 2-Hour Rating)	125 W
LF Component Electronics – Model 3739		Dimensions (H x W x D)	852 mm x 762 mm x 360 mm (33.5 in x 30 in x 14.1 in)
Low Frequency Transducers	2 x M115-8A, 380 mm (15 in) diameter, 64 mm (2.5 in) edgewound ribbon voice coil transducers mounted in a 4509 LF enclosure	Net Weight	11.1 kg (24 lbs)
Input Connectors	Push terminal binding posts	Shipping Weight	13.6 kg (30 lbs)
Nominal Impedance	4 ohms	Specifications are stated in free-field (4pi) conditions.	
Minimum Impedance	2.7 ohms @ 150 Hz	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.	
Input Power Handling (AES 2-Hour Rating)	500 W, 600 W recommended amplifier		
Free-Field Sensitivity	104 dB SPL, 2.83V @ 1 m (3.3 ft)		

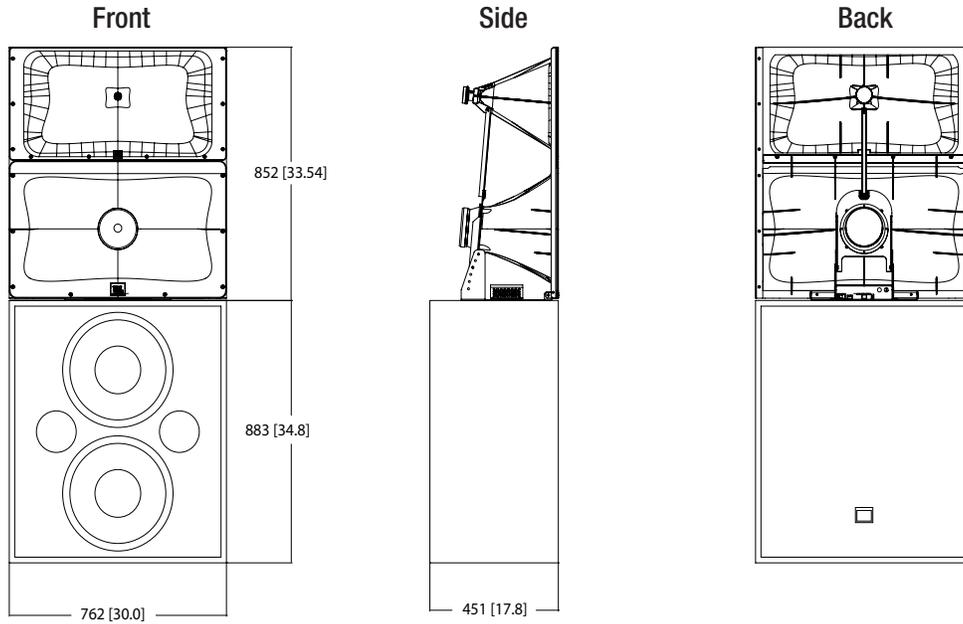
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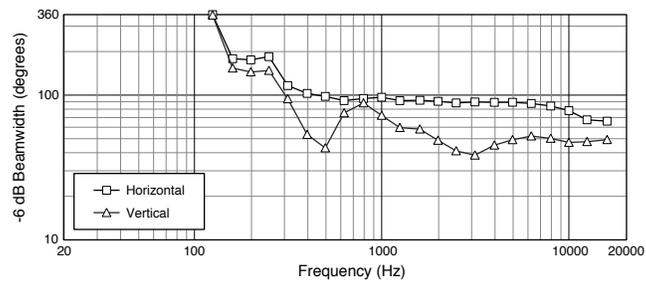
Dimensions:

Dimensions in mm (in)



Graphs:

Bandwidth vs. Frequency



Directivity Index and Directivity Factor

