

3830

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
- Connection on top of the speakers for easy wiring behind screen
- HF driver protection



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 3830 ScreenArray provides smooth and accurate reproduction of cinema soundtracks in a compact system. The ScreenArray horn features a patented design that compensates for high frequency spreading caused by perforated screens for greatly improved audience coverage. The 3830 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
Nominal Coverage	90° horizontal, -30°/+20° vertical
Net Weight	67.1 kg (147 lbs)
Shipping Weight	78.1 kg (172 lbs)
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)
Passive System	
Crossover Frequencies	450 Hz, 2 kHz
System Sensitivity	105 dB SPL, 2.83 V @ 1 m (3.3 ft)
Nominal Impedance	4 ohms
Minimum Impedance	2.7 ohms @ 150 Hz
Input Power Handling (AES 100-Hour Rating)	600 W
Bi-Amp System	
Input Power Handling (AES 2-Hour Rating)	LF: 500 W M/HF: 125 W
LF Component Electronics – Model 3839	
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
Input Connectors	Push terminal binding posts
Nominal Impedance	4 ohms
Minimum Impedance	2.7 ohms @ 150 Hz
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)

Dimensions (H x W x D)	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)
M/HF Component Electronics – Model 3830-M/HF	
Mid Frequency Transducer (Ships Fully Assembled)	1 x 195H, 165 mm (6.5 in) diameter, 38 mm (1.5 in) voice coil
High Frequency Transducer (Ships Fully Assembled)	1 x 2414H, 25 mm (1 in) polymer diaphragm, neodymium compression driver
Input Connectors	Screw terminal barrier strip
Device Nominal Impedance	MF: 8 ohms HF: 8 ohms
M/HF Nominal Impedance	4 ohms
M/HF Minimum Impedance	3 ohms @ 1850 Hz
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)
M/HF Free-Field Sensitivity	105dB, 2.83 V @ 1m
M/HF Input Power Handling (AES 2-Hour Rating)	125 W
Dimensions (H x W x D)	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)

Specifications are stated in free-field (4pi) conditions.

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.

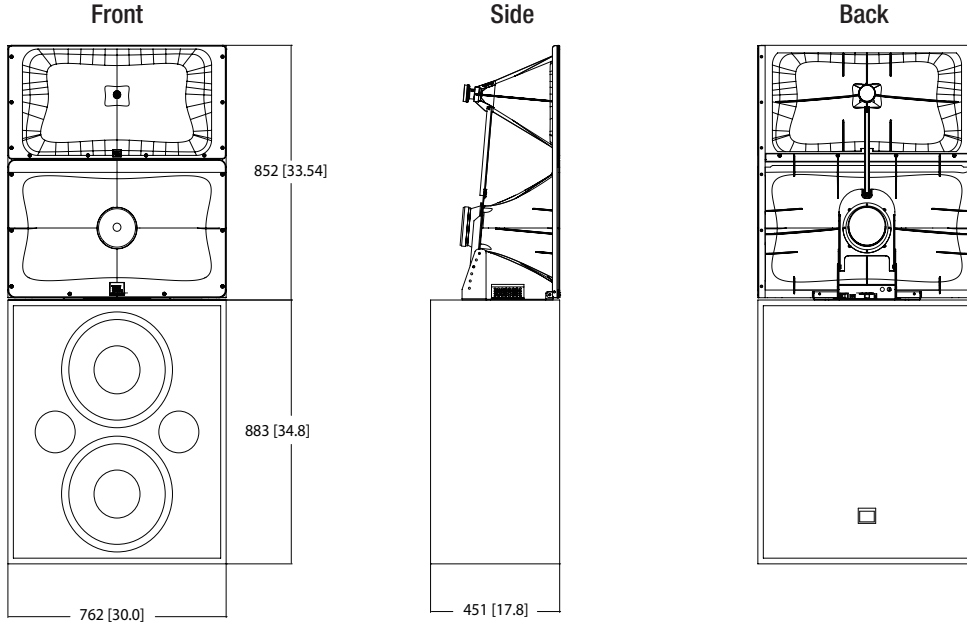
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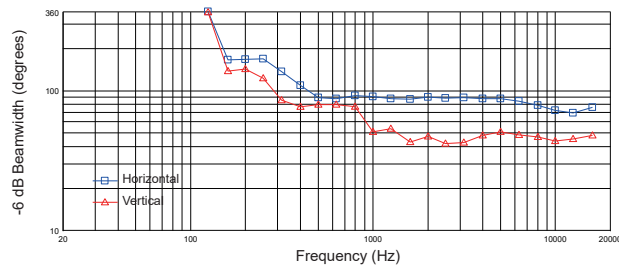
Dimensions:

Dimensions in mm (in)



Graphs:

Bandwidth vs. Frequency



Directivity Index and Directivity Factor

