

5742

Four-Way, High Power, Quad Amplified ScreenArray® Cinema Loudspeaker System



Key Features:

- High power four-way ScreenArray® design for maximum output, optimal coverage and minimum distortion
- 1400-watt midrange featuring four 8" Differential Drive® transducers
- Large format 4" neodymium, damped titanium diaphragm, high frequency compression driver
- 1600-watt low frequency section with two 18" SVG™ low frequency drivers
- Molded Optimized Aperture Waveguide technology for ultra-low distortion and extremely uniform frequency response
- JBL Patented SSC™ Screen spreading Compensation
- Focused coverage technology
- Flat front waveguide design for easy baffle wall installation
- Shallow 24" depth for minimum behind-screen depth requirements



Description:

Large format and 3D 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. Designed for high power critical sound reproduction in large format cinemas, studio production and post production applications, the 5742 high power ScreenArray features true four-way design 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. Manufactured and sold under US Patents: 6466680, 6513622, 7027605, 5748760 and 5042072.

Specifications:

System	
Frequency Range (-10 dB)	25 Hz – 20 kHz
Frequency Response (±3 dB)	30 Hz – 19 kHz
Rated Maximum SPL	136 dB SPL continuous @ 1m, 142 dB Peak
Hor. Coverage Angle (-6 dB)	90°
Vert. Coverage Angle (-6 dB)	20° up, 30° down
Crossover Frequencies ¹	220 Hz, 550 Hz, 1.3 kHz
Dimensions (H x W x D)	2763 mm x 762 mm x 610 mm (108.8 in x 30.0 in x 24.0 in)
Net Weight	128.1 kg (282 lb)
Shipping Weight	151.4 kg (333 lb)

LF Component Electronics – Model 5749

Low Frequency Transducers	2 x 2242HPL, 460 mm (18 in) dia. Super Vented Gap Cooled™ (SVG), 100 mm (4 in) dia. edgewound ribbon voice coils
Nominal Impedance	4 ohms (wired in parallel)
Minimum Impedance	3.36 ohms @ 27 Hz
Input Power Handling (AES 2-Hour Rating)	1600 W (72 V)
Free-Field Sensitivity	104 dB SPL, 2.83 V @ 1m (3.3 ft)
Input Connectors	Push terminal binding posts
Dimensions (H x W x D)	1219 mm x 762 mm x 610 mm (48.0 in x 30.0 in x 24.0 in)
Net Weight	95.3 kg (210 lb)
Shipping Weight	106.3 kg (234 lb)

M/HF Component Electronics – Model 5742-M/HF

Mid Frequency Transducers	4 x 2169H, 200 mm (8 in) dia. Differential Drive® neodymium magnet, 76 mm (3 in) dual-coil edgewound ribbon voice coil
High Frequency Transducer	2452H-SL 38 mm (1.5 in) exit compression driver with 100 mm (4 in) diameter voice coil and neodymium magnet
Nominal Impedance	MF: 2 x 4 ohms HF: 8 ohms
Minimum Impedance	MF: 4 ohms @ 1 kHz HF: 6 ohms @ 4 kHz
Input Power Handling (AES 2-Hour Rating)	MF: 2 x 700 W HF: 150 W
Free-Field Sensitivity	MF: 115 dB SPL, 2.83 V @ 1m (3.3 ft) HF: 115 dB SPL, 2.83 V @ 1m (3.3 ft)
Input Connectors	Screw terminal barrier strip
Dimensions (H x W x D)	1544 mm x 762 mm x 450 mm (60.8 in x 30.0 in x 17.8 in)
Net Weight	32.8 kg (72 lb)
Shipping Weight	45.1 kg (99 lb)

¹JBL factory-engineered three-channel Digital Signal Processing (DSP) is required for this product to achieve specified performance.

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.

Note: specifications are subject to change without notice.
12/2018. © 2018 Harman International. www.jblpro.com

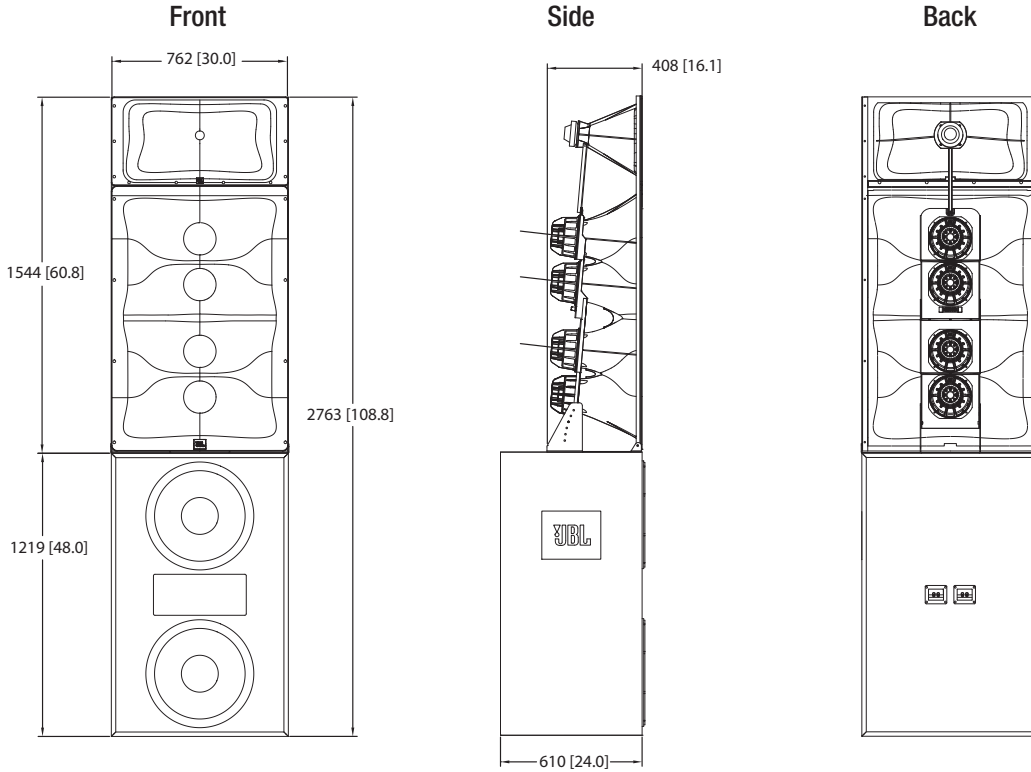
5742

Four-Way, High Power, Quad Amplified ScreenArray® Cinema Loudspeaker System



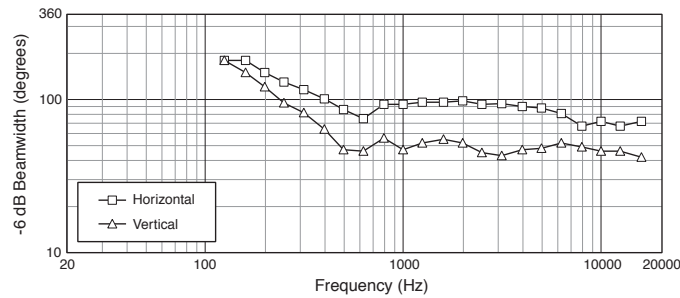
Dimensions:

Dimensions in mm (in)



Graphs:

Bandwidth vs. Frequency



Directivity Index and Directivity Factor

