



# 4632 4632-T

## Three-Way Bi-Amplified ScreenArray™ Cinema Loudspeaker System Three-Way Tri-Amplified ScreenArray™ Cinema Loudspeaker System

### Application:

For critical film sound reproduction in medium to large cinemas and studio production and post-production environments.

### Key Features:

- ▶ Three-way ScreenArray™ design for maximum output, optimal coverage, and minimum distortion
- ▶ Available for Bi-amplified operation (Model 4632) or Tri-amplified operation (Model 4632-T)
- ▶ Approved for THX® certified applications (4632-T)
- ▶ Ships fully assembled
- ▶ Second Generation Optimized Aperture Waveguide technology for ultra-low distortion, and extremely uniform frequency response
- ▶ SSC™ Screen Spreading Compensation
- ▶ Focused Coverage Technology™
- ▶ Flat-front waveguide design for easy baffle wall installation
- ▶ Shallow profile for minimum behind screen depth requirements

Today's Cinema patron demands perfect coverage in every seat of the auditorium, wide dynamic range and extended bandwidth, as well as inaudible levels of distortion. Digital soundtracks have the potential to push the traditional two-way screen channel speaker system beyond intended performance limits. This dictates the need for a new standard of loudspeaker performance for today's premier cinemas.

The 4632 ScreenArray features true three-way system design enhanced by advanced engineering. JBL Professional's best technical innovations are integrated in 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. The 4632 is available for bi-amplified or tri-amplified operation.



### Specifications:

|  |   |
|--|---|
| <b>System:</b> [4632-T Specifications in Brackets] |   |
| Frequency Range:                                   | 30 Hz - 20 kHz  |
| Frequency Response ( $\pm 3$ dB):                  | 40 Hz - 16 kHz  |
| System Sensitivity:                                | 106 dB, 2.83V @ 1m (3.3 ft)   |
| Rated Maximum SPL:                                 | 129 dB @ 1m (3.3 ft), 135 dB peak   |
| System Input Power Rating:                         | LF: 800 watts, M/HF: 200 watts [HF: 50 watts]   |
| Hor. Coverage Angle ( $-6$ dB):                    | 90°   |
| Vert. Coverage Angle ( $-6$ dB):                   | 20° up, 30° down  |
| Directivity Factor (Q):                            | 10.0  |
| Directivity Index (DI):                            | 10 dB   |
| Crossover Frequencies:                             | 250 Hz [1.2 kHz]  |
| Dimensions (HxWxD):                                | 2427 mm x 762 mm x 450 mm<br>(95.6 in x 30 in x 17.75 in)   |
| Net Weight:  | 120.4 kg (265 lbs)  |
| Shipping Weight:                                   | 139.4 kg (307 lbs)  |
| <b>Component Elements:</b>                         |   |
| Model 4639 Low Frequency:                          | 2 x 2035H-1; 380 mm (15 in) dia., 76 mm (3 in) edgewound ribbon voice coil transducers mounted in 4509 LF enclosure   |
| Nominal Impedance:                                 | 4 ohms  |
| Input Power Rating:                                | 800 watts AES; 1200 watts recommended amplifier   |
| Sensitivity:                                       | 104 dB SPL, 2.83V @ 1 m (3.3 ft)  |
| Input Connectors:                                  | Push terminal binding posts   |
| Dimensions (HxWxD):                                | 883 mm x 762 mm x 450 mm<br>(34.75 in. x 30 in. x 17.75 in.)  |
| Net Weight:  | 63.6 kg (140 lbs)   |
| Shipping Weight:                                   | 70.4 kg (155 lbs)   |
| Model 4632-M/HF                                    | Nominal Impedance: 4 ohms [HF: 8 ohms]  |
| Input Power Rating:                                | 200 watts AES; 400 watts recommended amplifier<br>[MF: 200 watts AES; 400 watts recommended amplifier]<br>[HF: 50 watts AES; 200 watts recommended amplifier] |
| Sensitivity:                                       | 106 dB SPL, 2.83V @ 1 m (3.3 ft)<br>[MF: 109 dB SPL, 2.83V @ 1 m (3.3 ft)]<br>[HF: 114 dB SPL, 2.83V @ 1 m (3.3 ft)]  |
| Input Connectors:                                  | Screw terminal barrier strip  |
| Mid Frequency:                                     | 4 x 165H; 165 mm (6.5 in) dia., 38 mm (1.5 in) voice coil   |
| High Frequency:                                    | 2425HS; 44 mm (1.75 in) titanium diaphragm and voice coil dia., 25 mm (1 in) exit diameter  |
| Dimensions (HxWxD):                                | 1544 mm x 762 mm x 450 mm<br>(60.8 in. x 30 in. x 17.75 in.)  |
| Net Weight:  | 56.8 kg (125 lbs)   |
| Shipping Weight:                                   | 69.0 kg (152 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.

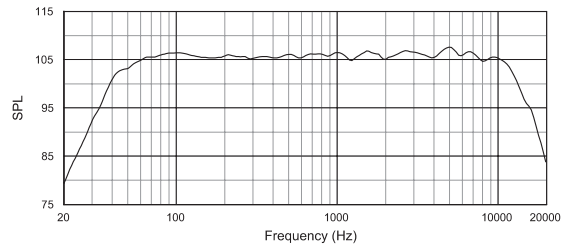
# ▶ 4632/4632T ScreenArray™ Three-Way Cinema Loudspeaker Systems

The 4632 ScreenArray represents the embodiment of JBL's continued commitment to the movie cinema industry. As such the 4632 incorporates the latest advances in JBL's research into high performance transducer, waveguide, and crossover designs. Incorporating the performance benefits of SCC™ (Screen Spreading Compensation) and Filtered Array Technology™, the 4632 provides smooth and uniform timbral balance consistent with current industry listening standards.

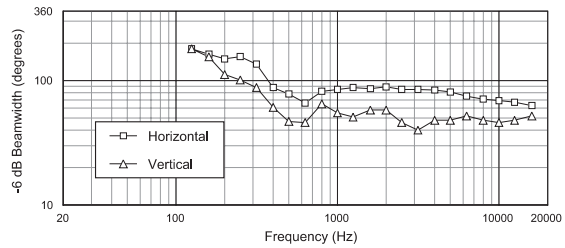
Screen Spreading Compensation corrects for the high frequency dispersion of a perforated movie screen.

Focused Coverage Technology provides an asymmetrical coverage pattern tilted 10° downward from horizontal to provide uniform coverage in every seat in either traditional or stadium seating auditoriums. In its bi-amplified configuration a passive signal processing network maintains optimal vertical dispersion of the midrange and high frequency elements.

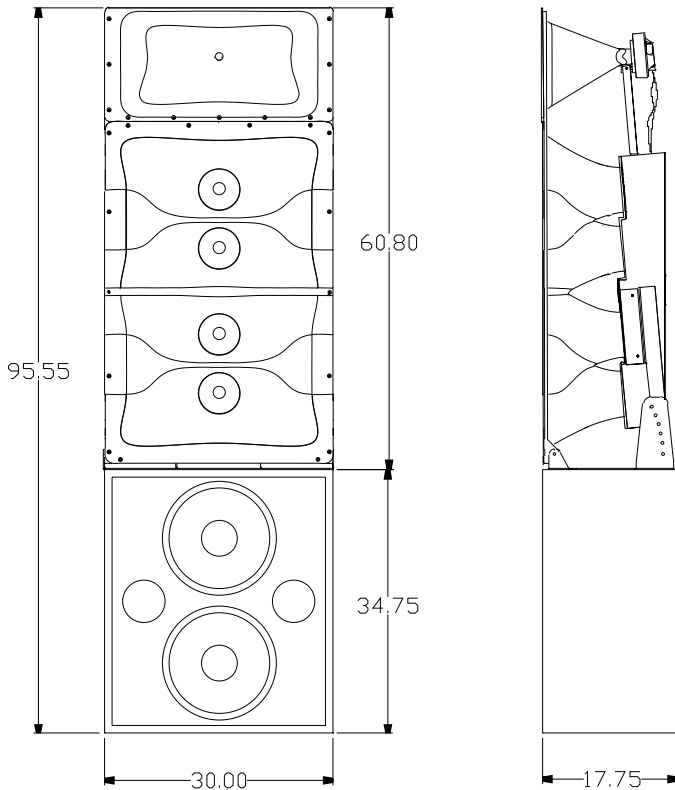
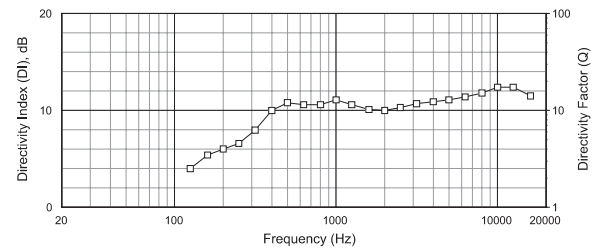
Frequency Response in half-space ( $2\pi$ )



Bandwidth vs. Frequency



Directivity Index and Directivity Factor



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