



3631 3631-T

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

Application:

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

Key Features:

- ▶ Three-way ScreenArray® design for maximum output, optimal coverage, and minimum distortion
- ▶ One 380 mm (15") Vented Gap Cooled (VGC™) LF Transducer
- ▶ Available for Bi-amplified operation (Model 3631) or Tri-amplified operation (Model 3631-T)
- ▶ Approved for THX® certified applications (3631-T)
- ▶ M/HF 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 depth for minimum behind screen requirements
- ▶ Low profile design with 600W LF

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 3631 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 3631 is available for bi-amplified or for tri-amplified operation.



Specifications:

System: [3631-T Specifications in Brackets]	
Frequency Range:	30 Hz - 20 kHz
Frequency Response (±3 dB):	40 Hz - 16 kHz
System Sensitivity:	104 dB, 2.83V @ 1m (3.3 ft)
Rated Maximum SPL:	126 dB @ 1m (3.3 ft), 132 dB peak
System Input Power Rating:	LF: 600 watts, M/HF: 150 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:	350 Hz [1.2 kHz]
Dimensions (HxWxD):	1600 mm x 762 mm x 450 mm (63 in x 30 in x 17.75 in)
Net Weight:	68.6 kg (151 lbs)
Shipping Weight:	80.8 kg (178 lbs)
Component Elements:	
Model 5641	Low Frequency: One 2226H 380 mm (15 in) dia., 100 mm (4 in) edgewound ribbon voice coil mounted in 4507A LF enclosure
	Nominal Impedance: 8 ohms
	Input Power Rating: 600 W, AES; one channel of 600 W into 8 ohms Recommended Amplifier
	Sensitivity: 97 dB SPL, 1 W @ 1 m (3.3 ft)
	Input Connectors: Barrier Strip
	Dimensions (HxWxD): 546 mm x 775 mm x 448 mm (21.5 in x 30.5 in x 17.625 in)
	Net Weight: 28.6 kg (63 lb)
	Shipping Weight: 37.2 kg (72 lb)
Model 3632-M/HF	Nominal Impedance: 8 ohms [MF: 12 ohms, HF: 8 ohms]
	Input Power Rating: 150 watts AES; 300 watts recommended amplifier [MF: 150 watts AES; 300 watts recommended amplifier] [HF: 50 watts AES; 200 watts recommended amplifier]
	Sensitivity: 104 dB SPL, 2.83V @ 1 m (3.3 ft) [MF: 108 dB SPL, 2.83V @ 1 m (3.3 ft)] [HF: 114 dB SPL, 2.83V @ 1 m (3.3 ft)]
	Input Connectors: Screw terminal barrier strip
	Mid Frequency: 2 x 165H; 165 mm (6.5 in) dia., 38 mm (1.5 in) voice coil
	High Frequency: 2418H; 44 mm (1.75 in) titanium diaphragm and voice coil dia., 25 mm (1 in) exit diameter
	Dimensions (HxWxD): 1054 mm x 762 mm x 450 mm (41.5 in x 30 in x 17.75 in)
	Net Weight: 40.0 kg (88 lb)
	Shipping Weight: 48.1 kg (106 lb)

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.

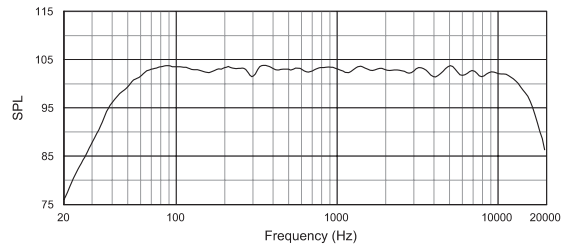
▶ 3631/3631-T ScreenArray® Three-Way Cinema Loudspeaker System

The 3631 ScreenArray represents the embodiment of JBL's continued commitment to the movie cinema industry. As such the 3631 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 3631 provides smooth and uniform timbral balance consistent with current industry listening standards.

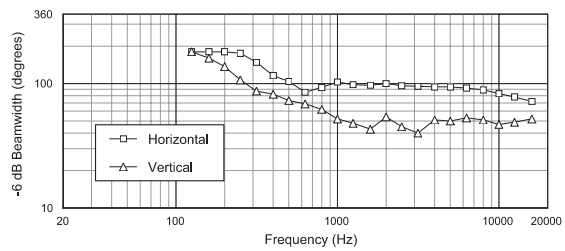
Screen Spreading Compensation corrects for the high frequency dispersion of a perforated movie screen.

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.

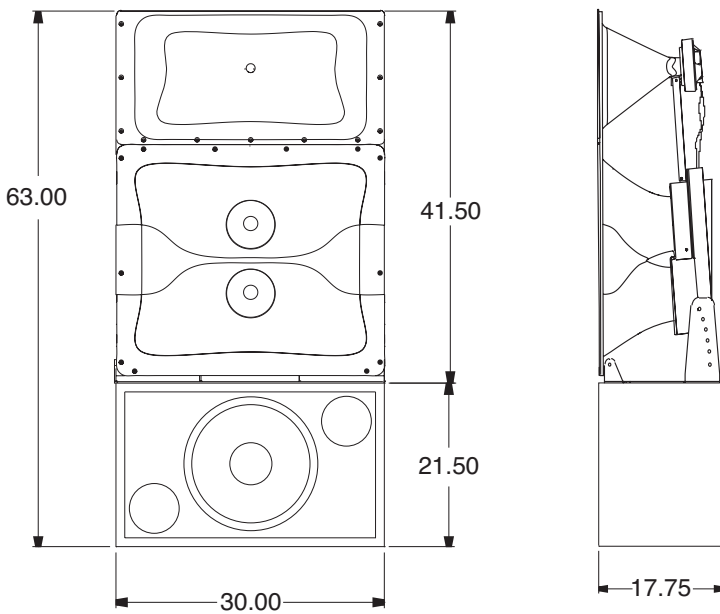
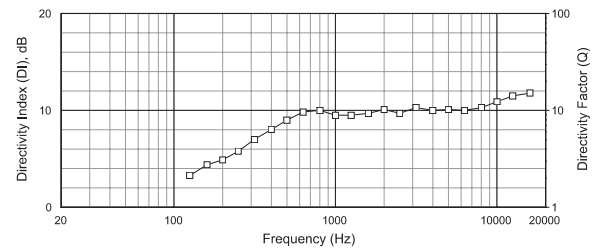
Frequency Response in half-space (2π)



Bandwidth vs. Frequency



Directivity Index and Directivity Factor



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SS 3631
CRP 2.5M
05/07