



# 3731 3731-T

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

### Professional Series

### Application:

For critical sound reproduction in small to medium cinemas and studio production and post production applications.

### Key Features:

- ▶ Three-way ScreenArray® design for maximum output, optimal coverage, and minimum distortion.
- ▶ Available for Bi-amplified operation (model 3731) or Tri-amplified operation (model 3731-T)
- ▶ Large Format 3" neodymium, titanium diaphragm, high frequency compression driver.
- ▶ One 380 mm Vented Gap Cooled (VGC™) 15" low frequency transducer
- ▶ Low profile design with single 15" 600 Watt LF
- ▶ Ships fully assembled
- ▶ New molded Optimized Aperture Waveguide technology for ultra low distortion and extremely uniform frequency response.
- ▶ SSC™ Screen spreading Compensation
- ▶ Focused Coverage Technology
- ▶ Flat Front Wave Guide design for easy baffle wall installation
- ▶ Shallow profile for minimum behind screen depth requirements.

Today's 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, especially those tracks associated with the new digital cinema requirements, require sound systems for premier auditoriums that can accurately reproduce the sound exactly as recorded.

The 3731 next generation ScreenArray features true three-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.



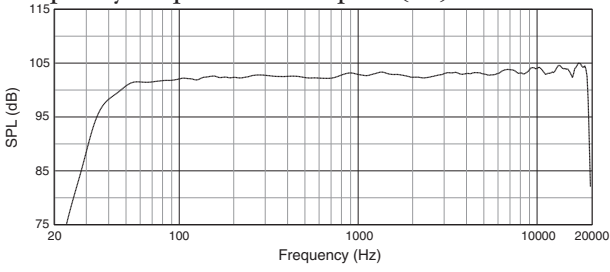
### Specifications:

<b>System:</b> [3731-T Specifications in Brackets]		
Frequency Range:	30 Hz - 20 kHz	
Frequency Response (±3 dB):	40 Hz - 19 kHz	
System Sensitivity:	103 dB, 2.83V @ 1m (3.3 ft)	
Rated Maximum SPL:	125 dB @ 1m (3.3 ft), 131 dB peak	
System Input Power Rating:	LF: 600 watts, M/HF: 150 watts [HF: 85 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:	51.8 kg (114 lb)	
Shipping Weight:	64.0 kg (141 lb)	
<b>Component Elements:</b>		
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 762 mm x 448 mm (21.5 in x 30 in x 17.625 in)
	Net Weight:	28.6 kg (63 lb)
	Shipping Weight:	37.2 kg (72 lb)
Model 3732-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: 85 watts AES; 200 watts recommended amplifier]
	Sensitivity:	103 dB SPL, 2.83V @ 1 m (3.3 ft) [MF: 107 dB SPL, 2.83V @ 1 m (3.3 ft)] [HF: 115 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:	2432H; 75 mm (3 in) titanium diaphragm and voice coil dia., 38 mm (1.5 in)
	Dimensions (HxWxD):	1054 mm x 762 mm x 450 mm (41.5 in x 30 in x 17.75 in)
	Ships fully assembled	
	Net Weight:	23.2 kg (51 lb)
	Shipping Weight:	31.3 kg (69 lb)

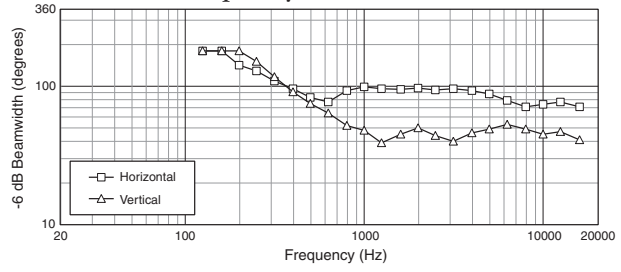
JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

# ▶ 3731/3731-T ScreenArray® Three-Way Cinema Loudspeaker System

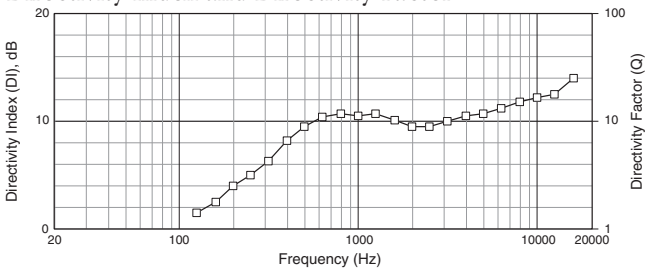
Frequency Response in half-space ( $2\pi$ )



Bandwidth vs. Frequency

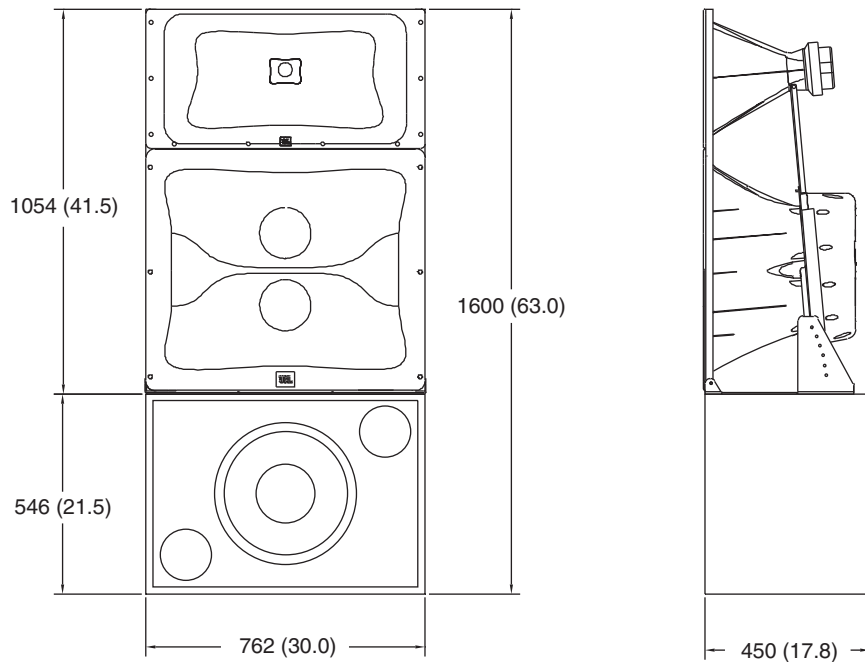


Directivity Index and Directivity Factor



## Dimensions

Dimensions in mm (in)



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