

JBL

4722/4722N Two-Way ScreenArray® Cinema Loudspeaker System

Professional Series

Application:

Cost effective film sound reproduction

Key Features:

- ▶ Two-Way ScreenArray® design for maximum output, optimal coverage, and minimum distortion.
- ▶ Available for Bi-amplified operation (model 4722) or fully passive operation (model 4722N)
- ▶ Large format 3" neodymium, titanium diaphragm, high frequency compression driver.
- ▶ Patented Differential Drive® 15" low frequency woofers for improved power handling and reduced distortion.
- ▶ SSC™ Screen Spreading Compensation
- ▶ New molded Optimized Aperture Waveguide technology for ultra low distortion and extremely uniform frequency response
- ▶ 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 4722 ScreenArray provides smooth and accurate reproduction of cinema soundtracks in a compact and very cost effective system. The ScreenArray horn features a panted design that compensates for high frequency spreading caused by perforated screens for greatly improved audience coverage.

The 4722 next generation 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 - 20 kHz
Frequency Response (± 3 dB):	40 Hz - 19 kHz
System Sensitivity:	104 dB, 2.83V @ 1 m (3.3 ft)
Nominal Impedance:	4722N: 4 ohms 4722: HF 8 ohms 4722: LF 4 ohms
Rated Maximum SPL:	130 dB, @ 1 m (3.3 ft) 136 dB peak
Passive System	
Input Power Rating: ¹	800 W
Bi-Amp System	
Input Power Rating: ¹	LF: 800 W HF: 85 W
Nominal Coverage:	90° horizontal, -30°, +20° vertical
Crossover Frequency:	4722: 630 Hz 4722N: 800 Hz
HF Bracket Tilt Range:	$\pm 30^\circ$ horizontal, $\pm 10^\circ$ vertical
Dimensions (H x W x D):	1265 mm x 762 mm x 450 mm (49.9 in x 30 in x 17.75 in)
Net Weight:	55.8 kg (123 lb)
Shipping Weight:	65.4 kg (144 lb)

Component Elements:

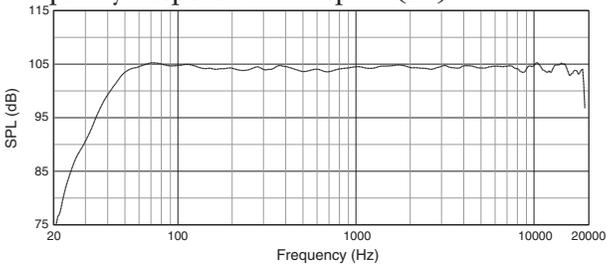
4739 Low Frequency:	2 x 265H-1 380 mm (15 in) dia., 76 mm high (3 in) edgewound ribbon voice coil transducers mounted in a 4509 LF enclosure
Dimension (H x W x D):	1289 mm x 762 mm x 450 mm (34.75 in x 30 in x 17.75 in)
Net Weight:	48.6 kg (107 lb)
Shipping Weight:	55.4 kg (122 lb)
4722-HF High Frequency	Ships fully assembled. One 2432H compression driver, one 2384 horn, one adjustable bracket
Pack:	
Dimension (H x W x D):	382 mm x 762 mm x 381 mm (15 in x 30 in x 15 in)
Net Weight:	7.3 kg (16 lb)
Shipping Weight:	12.7 kg (28 lb)

¹Rating based on test signal of filtered random noise conforming to the International standard IEC 268-1 (pink noise with 12 dB per octave roll-off below 40 Hz and above 5000 Hz with a peak-to-average ratio of 6 dB).

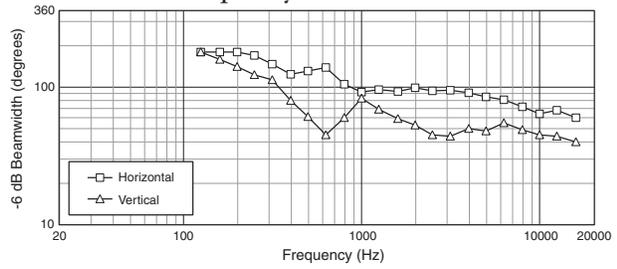
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▶ 4722/4722N Two-Way ScreenArray® Cinema Loudspeaker System

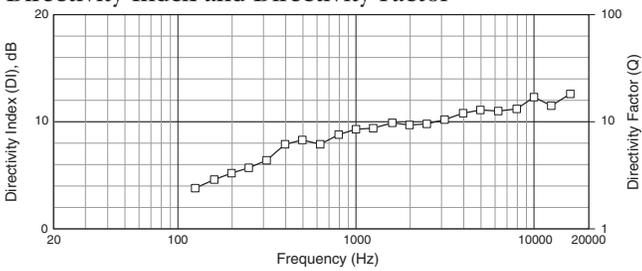
Frequency Response in half-space (2π)



Bandwidth vs. Frequency

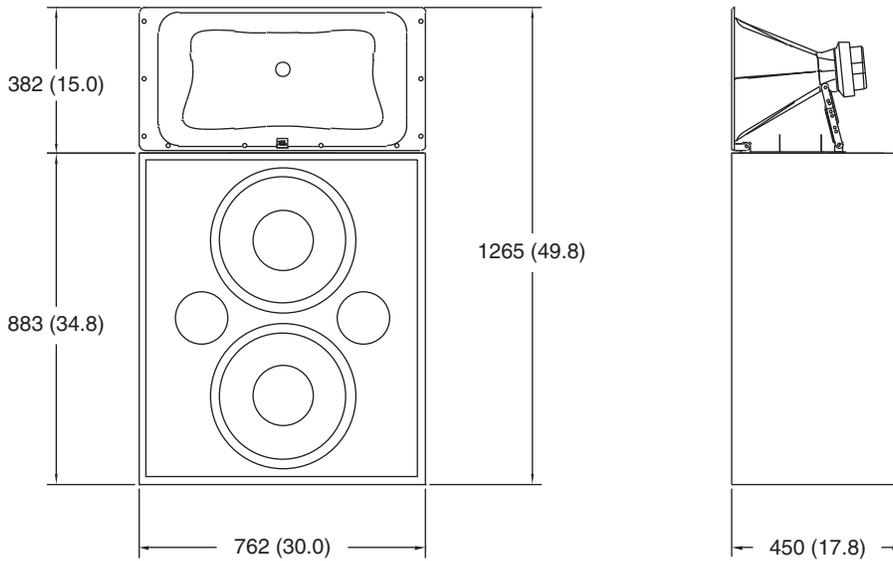


Directivity Index and Directivity Factor



Dimensions

Dimensions in mm (in)



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