

JBL

4622/4622N Two-Way ScreenArray® Cinema Loudspeaker System

Professional Series

Application:

Cost-effective film sound reproduction

Key Features:

- ▶ Frequency Range: 30 Hz to 20 kHz
- ▶ Sensitivity: 101 dB 1 W, 1 meter (3.3 ft)
- ▶ Power Capacity: 600 W continuous IEC pink noise
- ▶ SSC™ Screen Spreading Compensation (patent pending)
- ▶ Second-generation Optimized Aperture™ Waveguide technology for ultra-low distortion and extremely uniform frequency response.

Components:

- ▶ Dual 380 mm (15 in) low frequency transducers
- ▶ 75 mm (3 in) diaphragm compression driver
- ▶ 90° x 50° Low Distortion ScreenArray horn
- ▶ Two Models
4622N - Passive model with network
4622 - Bi-amp ready
- ▶ Smooth response, controlled coverage

The 4622 provides smooth and accurate reproduction of cinema soundtracks in a compact and very cost effective system. The system is comprised of two parts: the 4622-HF high-frequency pack and the 4639 low-frequency system.

The 4622-HF high-frequency pack features the JBL 2430H, 75 mm (3 in) diaphragm compression driver, JBL 2384 ScreenArray horn and adjustable bracket. The ScreenArray horn features a patent pending design that compensates for high-frequency spreading caused by perforated screens for greatly improved audience coverage. Together, these elements provide clear, accurate reproduction of the mid/high frequency information. All of these components come pre-assembled to reduce field assembly time thus reducing installation costs.

The 4639 dual 380 mm (15 in) low-frequency system uses JBL low frequency transducer technology for outstanding performance benefits. The cast frame JBL 2035H-1 380 mm (15 in) transducer employs a ribbon wire voice coil and magnetic circuit innovations that minimize distortion.



The 4622N passive system utilizes a sophisticated crossover network. Developed using computer optimization technology, it provides seamless transition resulting in excellent power response and controlled directivity.

These benefits coupled with the extended high frequency response provide the dynamic range and controlled coverage required by today's Cinema patron.

Specifications:

System	
Frequency Range:	30 Hz - 20 kHz
Frequency Response (±3 dB):	40 Hz - 16 kHz
System Sensitivity:	101 dB, 2V @ 1 m (3.3 ft)
Nominal Impedance:	4622: 4 ohms 4622N: HF 8 ohms 4622N: LF 4 ohms
Rated Maximum SPL:	127 dB, @ 1 m (3.3 ft) 133 dB peak
Passive System	
Input Power Rating: ¹	600 W
Bi-amp System	
Input Power Rating: ¹	LF: 600 W HF: 100 W
Nominal Coverage:	90° horizontal, -30°, +20° vertical
Crossover Frequency:	4622: 630 Hz 4622N: 750 Hz
HF Bracket Tilt Range:	±30° horizontal, ±10° vertical
Dimensions (H x W x D):	1289 mm x 762 mm x 450 mm (50.75 in x 30 in x 17.75 in)
Net Weight:	73.0 kg (160 lb)
Shipping Weight:	82.3 kg (181 lb)
Component Elements	
4639 Low Frequency:	2 x 2035H-1 380 mm (15 in) dia., 76 mm (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:	63.6 kg (140 lb)
Shipping Weight:	67.7 kg (149 lb)
4622-HF High Frequency:	One 2430H compression driver, one 2384 horn, one adjustable bracket
Dimension (H x W x D):	381 mm x 762 mm x 381 mm (15 in x 30 in x 15 in)
Net Weight:	9 kg (20 lb)
Shipping Weight:	14.5 kg (32 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).

JBL continually engages in research related to product improvement. New 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.

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JBL Professional
8500 Balboa Boulevard, P.O. Box 2200
Northridge, California 91329 U.S.A.

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