

Key Features

- 90° x 40° coverage for short-throw applications in auditoriums, worship facilities, performing arts centers and arenas
- Full-range loudspeaker with single 15" (381 mm) woofer provides 50 Hz bass to reduce need for additional low-frequency speakers in smaller
- Bose® V2 midrange manifold sums output of 2 x 4.5" (114 mm) extended-range cone drivers for lower breakup distortion and improved transient response. Provides a smoother, more natural vocal range compared to single 8" to 12" woofers. The LT 9403 loudspeaker utilizes a single Bose V2 midrange manifold
- Bose large-format waveguide provides effective 90° x 40° pattern control to approximately 300 Hz (horizontal) and 1.5 kHz (vertical). Minimizes loudspeaker overlap in arrays to reduce comb-filter interference and improve intelligibility



Product Overview

The Bose® LT 9403 is a full-range 3-way loudspeaker designed as the primary reinforcement source for smaller venues, or for use with other LT loudspeakers to form Coherent Zone arrays in medium to large venues. The large-format waveguide and 90° x 40° pattern deliver precise coverage and high intelligibility, providing a cost-effective alternative to multiple-cabinet line arrays for many applications.

Technical Specifications

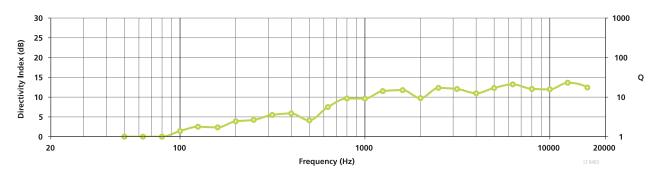
System Performance			
Frequency Response (+/-3 dB) ¹	50 Hz - 16 kHz		
Frequency Range (-10 dB) ¹	42 Hz - 18 kHz		
Nominal Dispersion	90° H x 40° V		
Sensitivity (SPL / 1 W @ 1 m) ²	95 dB SPL		
Maximum SPL @ 1 m ³	122 dB SPL (128 dB SPL peak)		
Crossover Type	Passive, Bi-Amp, Switchable		
Crossover Frequency	300 Hz and 1.8 kHz passive, 300 Hz bi-amp		
Recommended High-Pass Filter	40 Hz with 4th order filter (24 dB / octave)		
Loudspeaker EQ	Recommended		
	Passive	Bi-Amp	
_		Mid	High
Long-Term Power Handling ⁴	500 W (2000 W peak)	300 W (1200 W peak)	100 W (400 W peak)
Nominal Impedance	8 Ω	8 Ω	8 Ω
Transducers			
Driver Compliment	HF: 1.75" (44 mm) voice coil compression driver MF: Bose V2 midrange manifold with 2 x 4.5" (114 mm) cone drivers LF: 15" (381 mm) woofer with 4" (102 mm) voice coil		
Physical			
Enclosure	Baltic birch plywood, 13-ply, 18 mm		
Finish	Polyurethane-based textured paint, black or white		
Grille	16-gauge perforated steel grille with powder-coated finish		
Environmental	Indoor use only		
Connectors	Two (2) parallel-wired NL4 Neutrik® Speakon® connectors		
Suspension / Mounting	Sixteen (16) points SAE 3/8" - 16 threaded inserts (4 each: top, bottom, sides), steel		
Dimensions	34.4" H x 24.1" W x 22.6" D (873 mm x 612 mm x 575 mm)		
Net Weight	142 lb (64.4 kg)		
Shipping Weight	165 lb (74.5 kg)		
Product Code			
Black	040182		
White	040183 (Special Order Only)		

- 1 Frequency response and range measured on-axis with recommended active EQ in an anechoic environment
- Sensitivity measured in free field (no boundary-loading gain) with recommended active EQ, referenced to 1W/1m.
 Maximum SPL calculated from sensitivity and power handling specifications, exclusive of power compression.
 Power handling tested using pink noise filtered to meet IEC 268-5, 6 dB crest factor, 100 hours, with recommended EQ.

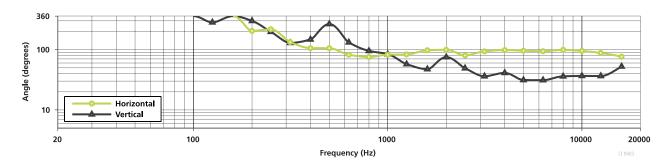




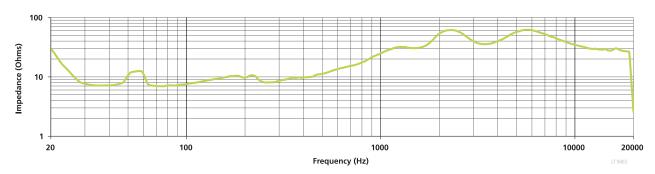
Directivity Index and Q



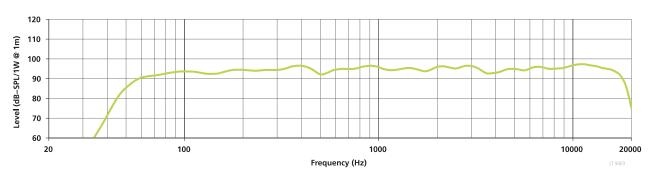
Beamwidth



Impedance

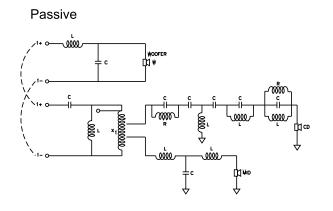


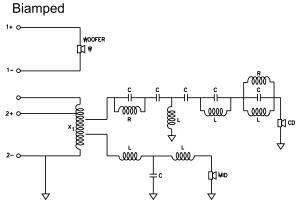
On-Axis Response



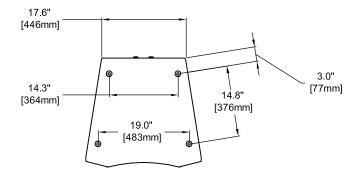


Wiring Diagram

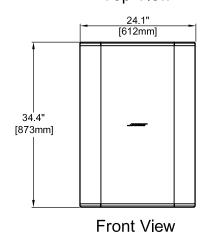


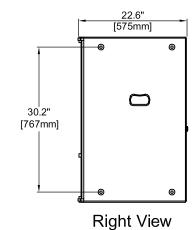


Mechanical Diagrams



Top View

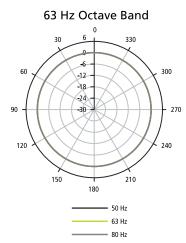


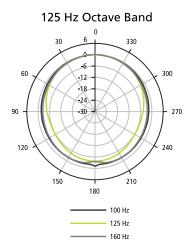


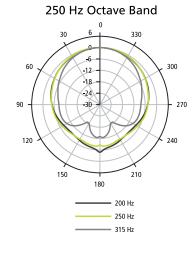
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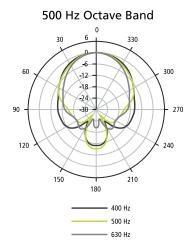
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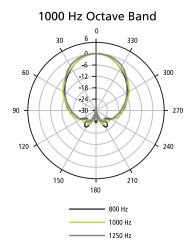
Horizontal Plots

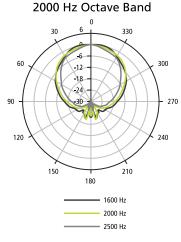


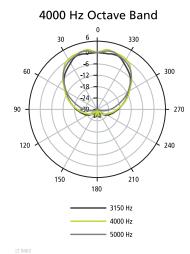


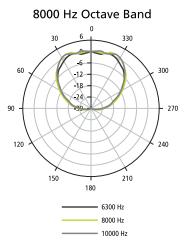


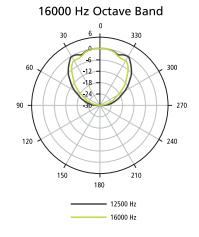






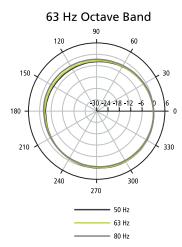


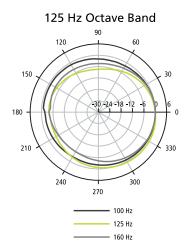


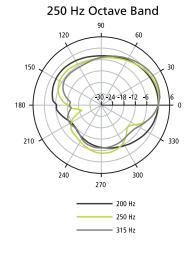


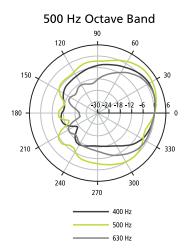
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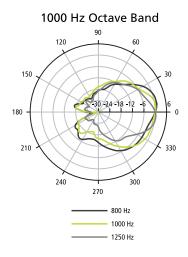
Vertical Plots

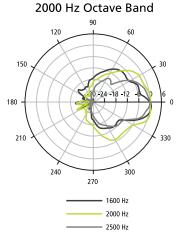


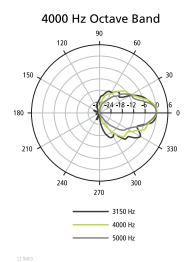


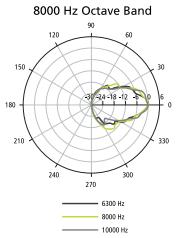


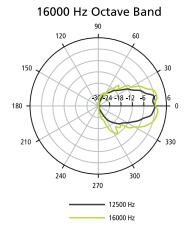












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Architects' and Engineers' Specifications

The 3-way, full-range loudspeaker shall contain a 1.75" (44 mm) diaphragm compression driver, a midrange manifold, which utilizes two (2) 4.5" (114 mm) cone drivers in a heat-sink/acoustic summation assembly, and a single 15" (381 mm) woofer. The MF and HF transducers will exit into a large-format waveguide with 90° x 40° nominal beamwidth and effective pattern control to approximately 300 Hz (horizontal) and 1.5 kHz (vertical). The 15" (381 mm) woofer shall be loaded in a tapered transmissionline enclosure to reduce resonant peaks and port-turbulence noise. An internal filter network with crossover frequencies of 300 Hz and 1800 Hz shall allow passive or bi-amp operation.

On-axis system frequency response shall be 50 Hz to 16 kHz (+/- 3 dB) with recommended crossover and active equalization. The system sensitivity shall be 95 dB SPL with 1 watt input and be capable of producing peak output of 128 dB SPL on axis at 1 meter. In passive mode, the system shall handle 500 watts of amplifier power (IEC 268-5 pink noise, 6 dB crest factor, for 100 hours) and have a nominal input impedance of 8 ohms. In biamp mode, the low-frequency section shall handle 300 watts of amplifier power and have a nominal input impedance of 8 ohms, while the mid/high-frequency section shall handle 100 watts of amplifier power and have a nominal input impedance of 8 ohms.

The trapezoidal enclosure shall be constructed of void-free, Baltic birch plywood with extensive internal bracing. The enclosure exterior shall be treated with a polyurethane-based paint that resists scuffing. The enclosure shall be covered by a 16-gauge perforated steel grille with powder-coated finish. The loudspeaker shall be rated for indoor use only. The enclosure shall have sixteen (16) steel threaded inserts (4 each: top, bottom, sides) that accept standard SAE 3/8"-16 rigging hardware. Inputs shall be two (2) NL4 Neutrik® Speakon® connectors. Loudspeaker dimensions shall be 34.4" x 24.1" x 22.6" (873 mm x 612 mm x 575 mm). Net weight shall be 142 lb (64.4 kg).

The 3-way, full-range loudspeaker shall be the Bose® LT 9403 loudspeaker.