

Key Features

Award-winning RoomMatch sound – now in smaller, 2-way, point-source designs for high-level foreground music, under-balcony, zone-fill and vocal-range floor monitor applications

Bose EMB2 compression driver – for lower distortion and improved vocal clarity compared to conventional foreground/fill models; also provides consistent mid/high sonic character compared to that of RoomMatch full-range and other RoomMatch Utility models

Ultra-compact design – allows use for high-quality background/ foreground music and zone-fill applications that require excellent audio, minimal physical size, and high design aesthetics

100° x 100° constant-directivity high-frequency horn – gives wide, even coverage, allowing vertical or horizontal mounting with no change in coverage pattern.

1 x Bose LF5 5.25-inch woofer – with 1.5-inch long-excursion voice coil extends response to 90 Hz for lowest vocal range

100 Hz – 16 kHz frequency response and 118 dB maximum peak SPL - deliver the performance required for most demanding applications in an ultra-compact enclosure design

Flexible mounting with included U-bracket – Rear enclosure panel also includes 2 x M6 threaded inserts with 3-inch (75 mm) spacing to accept third-party accessory mounting brackets

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Product Overview

The RoomMatch Utility RMU105 ultra-compact foreground/fill loudspeaker is intended for use in high-quality background/ foreground music and zone-fill applications that require excellent audio, minimal physical size and high design aesthetics. The design features a single Bose® EMB2 compression driver to provide mid/high frequency voicing similar to that of RoomMatch full-range array modules and all RoomMatch Utility models. A single 5.25-inch woofer provides vocal-range output, and a 100° x 100° high-frequency horn provides consistent coverage with either vertical or horizontal mounting.

Technical Specifications

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System Performance		
Frequency Response (+/-3 dB) ¹	100 Hz - 16 kHz	
Frequency Range (-10 dB)	90 Hz - 16 kHz	
Recommended High-Pass Protection Filter	90 Hz with minimum 12-dB / octave filter	
Nominal Coverage Pattern (H x V)	100° x 100° (rotatable high-frequency horn)	
Crossover Type	passive (2.0 kHz crossover frequency)	
	Bose extended-lifecycle test ⁴	AES transducer test⁵
Power Handling, long-term continuous	100 W	150 W
Power Handling, Peak	400 W	600 W
Sensitivity (SPL / 1 W @ 1 m) ²	90 dB	90 dB
Calculated Maximum SPL @ 1 m ³	110 dB	112 dB
Calculated Maximum SPL @ 1 m, peak ⁴	116 dB	118 dB
Transducers		
Low Frequency	1 x Bose LF5 high-excursion 5.25-inch woofer (1.5-inch voice coil)	
High Frequency	1 x Bose EMB2 extended-midband high-frequency compression driver (2-inch voice coil)	
Nominal Impedance	8 Ω	
Physical		
Finish	Two-part spray polyurethane coating, black or white	
Grille	18-gauge (1.2 mm) perforated steel, powder-coated finish, black or white	
Environmental	Indoor use only	
Connectors	2 x Neutrik® NL4 and 1 x barrier strip, wired parallel	
Suspension / Mounting	2 x M8 threaded inserts (1 each side) for U-bracket; 2 x M8 threaded inserts on rear surface (75 mm, 2-bolt pattern)	
Dimensions	6.0" H x 12.0" W x 7.3" D (152 mm x 304 mm x 185 mm)	
Net Weight	12 lbs (5.4 kg) / 15 lbs (6.8 kg) with U-bracket	
Shipping Weight	xx lbs (yy.y kg)	





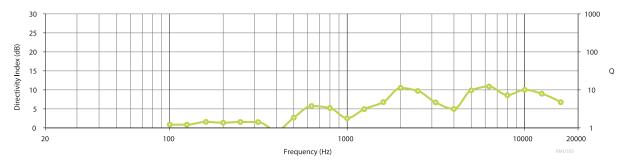
Product Code	
Black	638421-0110
White	638421-0210

Footnotes:

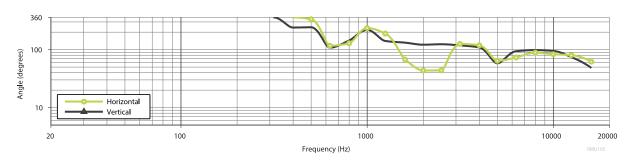
- Frequency response and range measured on-axis with passive crossover in an anechoic environment.
 Sensitivity measured in half-space boundary conditions with passive EQ, referenced to 1W/m.
 Maximum SPL calculated from sensitivity and power handling specifications, exclusive of power compression.
- Bose extended-lifecycle test using pink noise filtered to meet IEC268-5, 6-dB crest factor, 500-hour duration.
 AES standard 2-hour duration with IEC system noise.



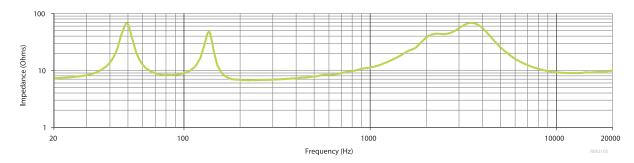
Directivity Index and Q



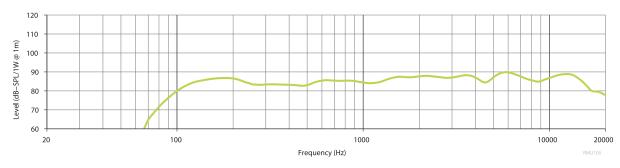
Beamwidth



Impedance

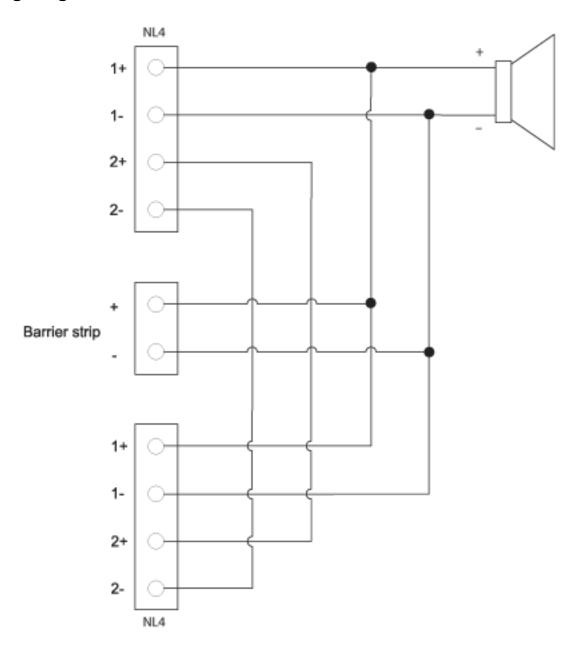


On-Axis Response



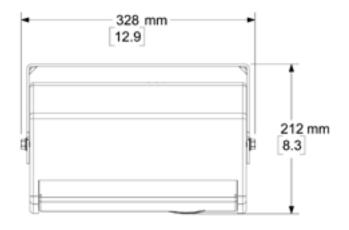


Wiring Diagram





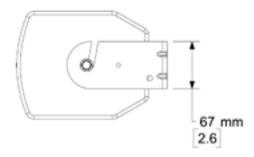
Mechanical Diagrams



Top View



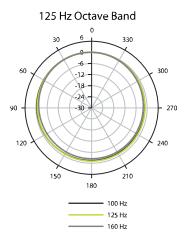
Front View

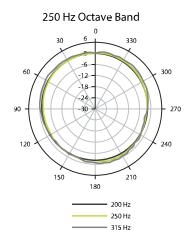


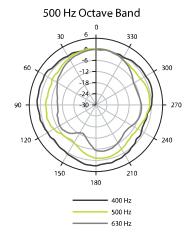
Right View

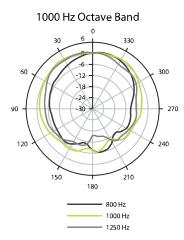


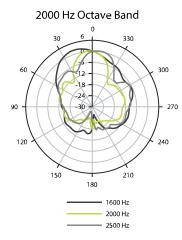
Horizontal Plots

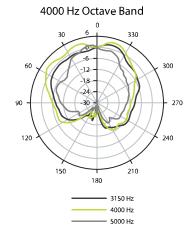


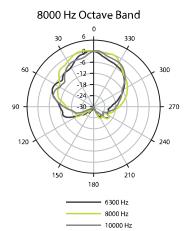


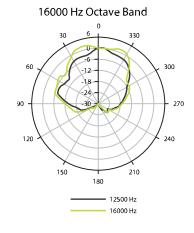






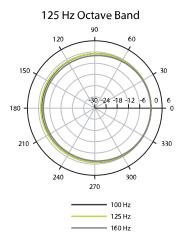


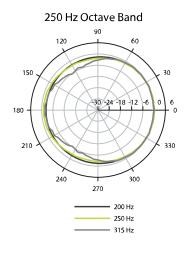


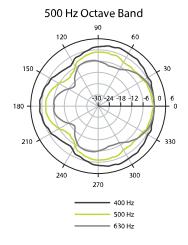


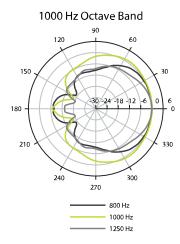


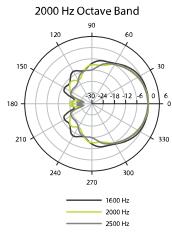
Vertical Plots

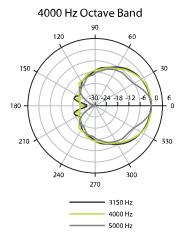


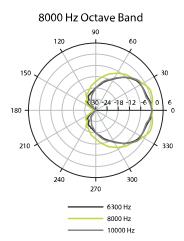


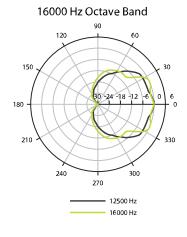














Architects' and Engineers' Specifications

The 2-way, vocal-range loudspeaker shall contain a single 2-inch titanium-diaphragm compression driver and a single 5.25-inch cone transducer with 1.5-inch voice coil. The loudspeaker shall contain a passive crossover network with 2000 Hz crossover point that provides consistent coverage and frequency response near crossover region.

The 2-way, vocal-range loudspeaker shall meet the following performance specifications: On-axis system frequency response shall be 100 Hz to 16 kHz (+/- 3 dB) without need for active equalization. The loudspeaker sensitivity shall be 90dB SPL in free field with 1 W input at 1 meter. The long-term power handling rating shall be 150 W (AES test methodology using pink noise, 6 dB crest factor, 2-hour duration). Maximum continuous output shall be 112 dB SPL and the maximum peak output shall be 118 dB SPL, both in free field. The nominal coverage pattern of the high-frequency horn shall be 100° horizontal and 100° vertical to allow consistent coverage with either horizontal or vertical mounting. The loudspeaker enclosure shall be constructed of Baltic birch plywood, protected by a two-part polyurethane coating. The transducers shall be protected by a 1.5-mm perforated steel grille with powder-coated finish. Input connectors shall be two (2) Neutrik® NL4 Speakon® connectors and one barrier strip terminal, wired in parallel. The finish will be available in black or white (paintable). Loudspeaker dimensions shall be 6.0" x 12.0" x 7.3" (152 x 304 x 185 mm) and net weight shall be 12 lb. (5.4 kg). The loudspeaker shall be the Bose RoomMatch Utility RMU105 model.

All information subject to change without notice.

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