

TECHNICAL DATA

402 Series V

installed sound reinforcement loudspeaker

Product Overview

One of the best-selling sound reinforcement loudspeakers of all time returns. The Bose Professional 402 Series V features four 4.5-inch full-range drivers that deliver smooth frequency response, wide dispersion, and exceptional power handling and efficiency. The proprietary array design ensures a wide 120° × 60° coverage pattern, reducing the need for multiple loudspeakers, while the 73 Hz low-frequency range can eliminate the need for subwoofers. The rugged, lightweight enclosure is IP55 weather-rated for durability in indoor and outdoor installations, and flexible mounting options allow for easy, secure installations in various configurations.

Available in black and white, the 402 Series V is compatible with the surface-mount pan and tilt bracket for mounting in a variety of spaces.



Key Features

Four 4.5-inch full-range drivers deliver smooth frequency response, wide dispersion, and exceptional power handling and efficiency

Proprietary array design ensures a wide 120° × 60° coverage pattern, reducing the need for multiple loudspeakers

73 Hz – 15 kHz frequency range provides full-range audio without the need for subwoofers at moderate sound levels

High 119 dB peak SPL capacity means powerful sound reinforcement in demanding environments

Rugged, lightweight enclosure is IP55 weather-rated for durability in indoor and outdoor installations

Flexible mounting options including threaded inserts for easy, secure installations in various configurations

Applications

Hospitality

Retail / restaurants

Corporate

Houses of worship

Performing arts

Education

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Technical Specifications

SINGLE-LOUDSPEAKER PERFORMANCE		
Frequency Range (-10 dB) ¹	73 Hz – 15,000 Hz	
Nominal Coverage Pattern	120° horizontal × 60° vertical	
	AES Transducer Test ⁴	Bose Professional Extended-Lifecycle Test ⁵
Power Handling, Long-term Continuous	150 W	120 W
Power Handling, Peak	600 W	480 W
Sensitivity (SPL / 1 W @ 1 m) ²	91 dB	91 dB
Calculated Maximum SPL @ 1 m, Continuous ³	113 dB	112 dB
Calculated Maximum SPL @ 1 m, Peak	119 dB	118 dB
Loudspeaker EQ	Active EQ required for optimal performance	
Recommended High-pass Protection	75 Hz with minimum 12-dB/octave filter	
Overload Protection	Power-limiting circuit, non-fused, automatic reset	
TRANSDUCERS		
Drivers	4 × Bose Professional 4.5-in (114 mm) full-range cone transducers	
Nominal Impedance	8 Ω	
PHYSICAL		
Enclosure Material	Mineral-reinforced HDPE	
Grille	Powder-coated steel	
Environmental	Outdoors or indoors, IP55 per IEC 60529:2013+COR.1:2019	
Connectors	(2) Neutrik® NL4 wired parallel	
Suspension / Mounting	(7) M8 threaded inserts (4 back, 1 bottom, 2 top)	
Product Dimensions (length × width × depth)	591 mm × 206 mm × 202 mm (23.3 in × 8.1 in × 8.0 in)	
Net Weight	6.9 kg (15.2 lb)	
Shipping Weight	8.4 kg (18.5 lb)	
Package Contents	(1) 402 Series V, (1) installation guide	
Accessories	Surface-mount pan and tilt bracket	
PRODUCT CODES		
402 Series V, black	893555-0100 402 SERIES V OUTDOOR INSTLD LDSPK BLK	
402 Series V, white	893555-0200 402 SERIES V OUTDOOR INSTLD LDSPK WHT	
Surface-mount pan and tilt bracket, black	889687-0100 PAN & TILT BRACKET,BLK	
Surface-mount pan and tilt bracket, white	889687-0200 PAN & TILT BRACKET,WHT	

Footnotes

1. Frequency range measured on-axis with recommended EQ in an anechoic environment.
2. Sensitivity measured in anechoic acoustic boundary conditions with recommended EQ, referenced to 1 W/m.
3. Maximum SPL calculated from sensitivity and power handling specifications exclusive of power compression.
4. AES component test: pink noise, IEC 268-5 filtered, 6-dB crest factor, 2-hour duration with recommended EQ.
5. Bose extended-lifecycle test: pink noise, IEC 268-5 filtered, 6-dB crest factor, 100-hour duration with recommended EQ.

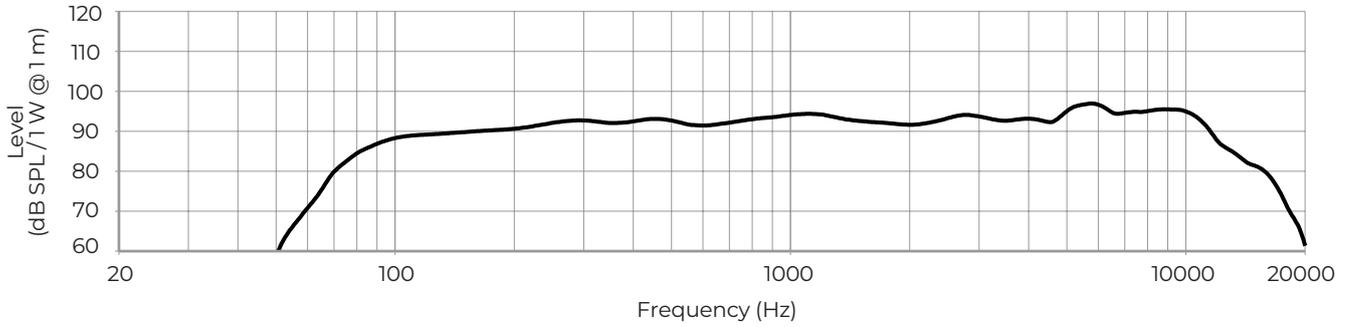
For additional specifications and application information, visit BoseProfessional.com. Specifications are subject to change. 12/2024

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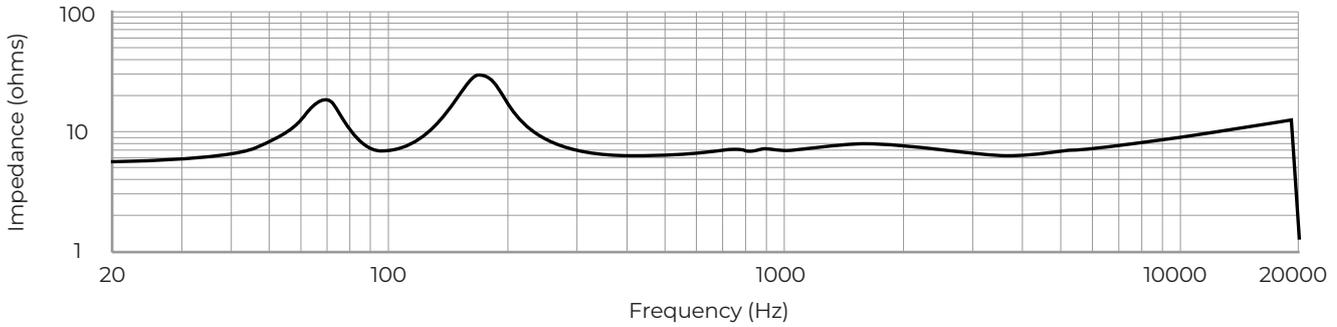
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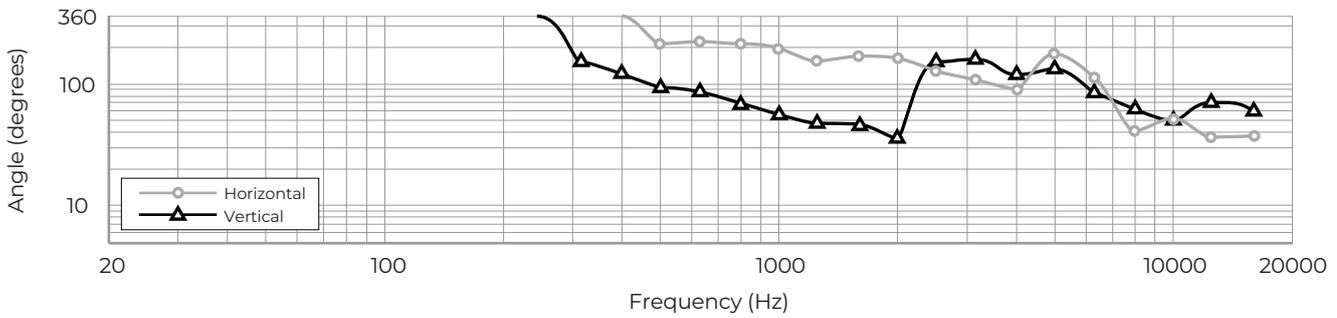
On-axis Response



Impedance



Beamwidth



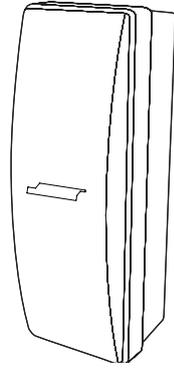
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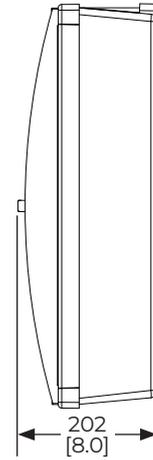
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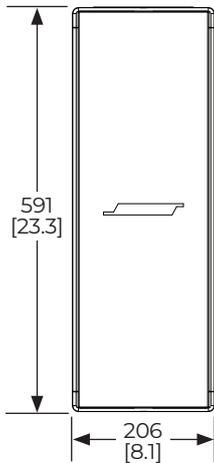
Dimensions ⁶



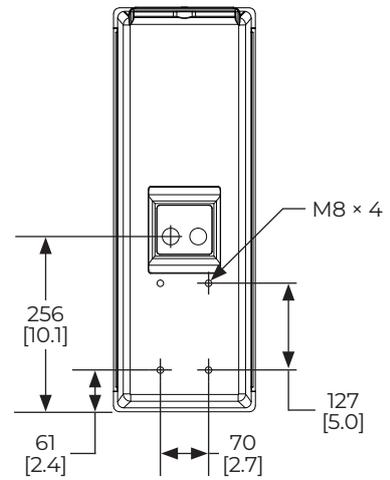
Side View ⁷



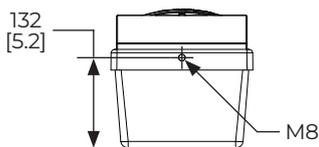
Front View



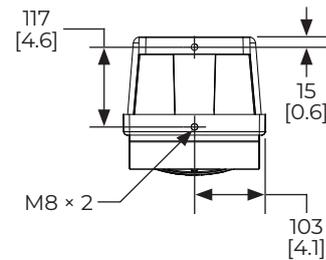
Rear View



Bottom View



Top View



6. Dimensions are shown in millimeters over inches.
7. Dimensions apply to both left and right sides.

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