

Panaray® 802® Series IV

Installed Sound-Reinforcement Loudspeaker



Key Features

- Full-Range-Driver Array eliminates tweeters and crossovers for unsurpassed reliability in harsh environments and vocal clarity
- 8 x Bose 4.5" full-range drivers for legendary reliability
- 120° x 100° Articulated Array® design covers a very wide area, which can reduce the number of loudspeakers required
- 52 Hz - 15 kHz frequency range eliminates need for subwoofers for moderate full-range music levels
- 123 dB peak SPL for sound-reinforcement and foreground music
- Rugged, lightweight enclosure with threaded inserts for easy installations
- Weather-Rated design for indoor or outdoor installations
- Requires active equalization



TECHNICAL DATA SHEET

Product Overview

The Panaray® 802® Series IV installed sound-reinforcement loudspeaker features a full-range-driver array, eliminating the need for tweeters and crossovers, to provide unsurpassed reliability and vocal clarity. The Articulated Array® design, with wide 120° x 100° coverage, can reduce the number of required loudspeakers, while the 52 Hz low-frequency range can eliminate the need for subwoofers, providing a cost-effective solution for many indoor or outdoor installed sound-reinforcement applications.

Technical Specifications

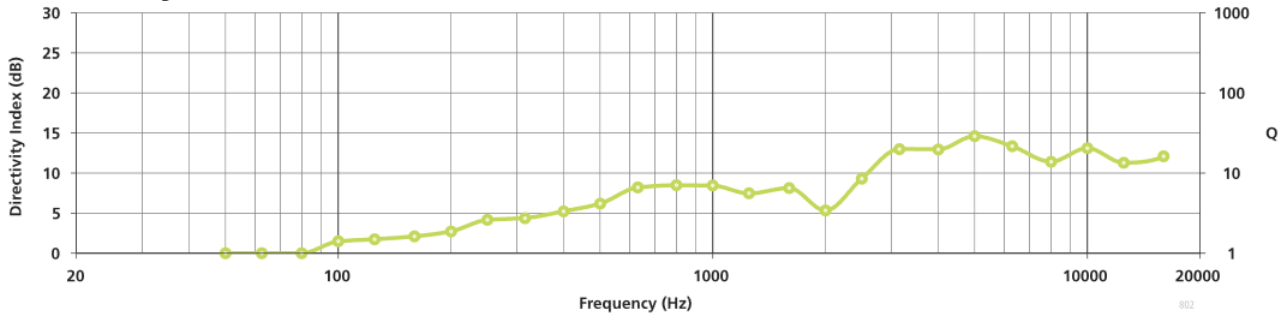
System Performance		
Frequency Range (-10 dB) ¹	52 Hz - 15 kHz	
Recommended High-Pass Protection Filter	55 Hz with minimum 12 dB / octave filter	
Nominal Coverage Pattern	120° H x 100° V	
Loudspeaker EQ	Active EQ required for optimal performance	
Overload Protection	Power limiting circuit (non-fused; automatic reset)	
	Bose extended-lifecycle test ²	AES component test ³
Power Handling, long-term continuous	240 W	300 W
Power Handling, peak	960 W	1200 W
	Free field	Free field
Sensitivity (SPL / 1 W @ 1 m) ⁴	92 dB	92 dB
Calculated Maximum SPL @ 1 m ²	116 dB	117 dB
Calculated Maximum SPL @ 1 m, peak	122 dB	123 dB
Transducers		
Full-range drivers	8 x Bose 4.5" (114 mm) full-range cone transducers	
Nominal Impedance	8 ohms	
Physical		
Enclosure Material	Mineral-reinforced HDPE	
Grille	Powder-coated steel grille	
Environmental	Outdoor per IEC 529 IP55	
Connectors	2 x Neutrik® NL4 wired parallel	
Suspension / Mounting	8 x M8 threaded inserts (2 back, 2 bottom, 4 sides)	
Dimensions (H x W x D)	336 mm x 523 mm x 335 mm (13.3" x 20.5" x 13.2")	
Net Weight	13.6 kg (30 lbs)	
Shipping Weight	17.2 kg (38 lbs)	
Product Code		
Black	739058-0110	

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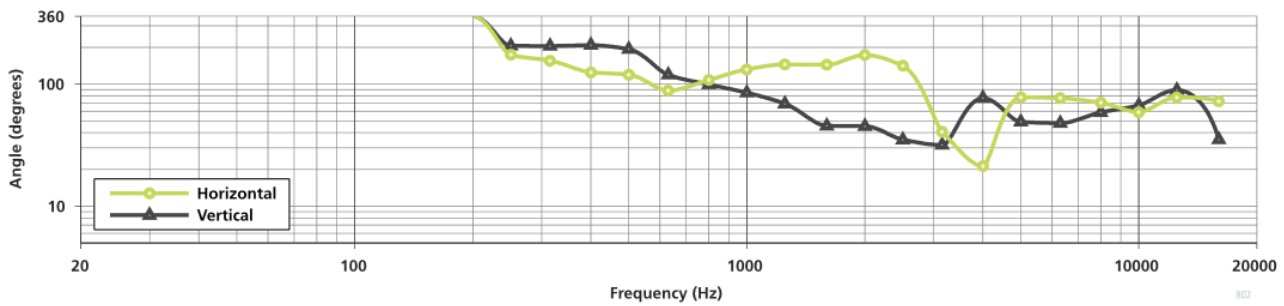
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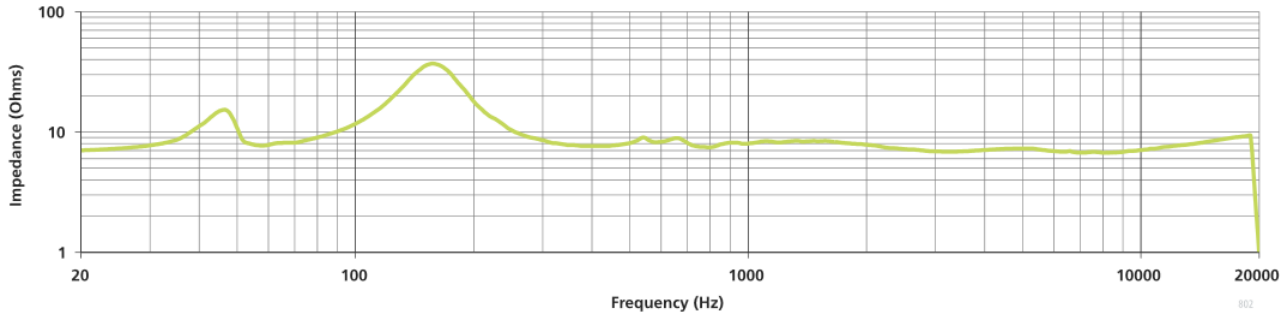
Directivity Index and Q



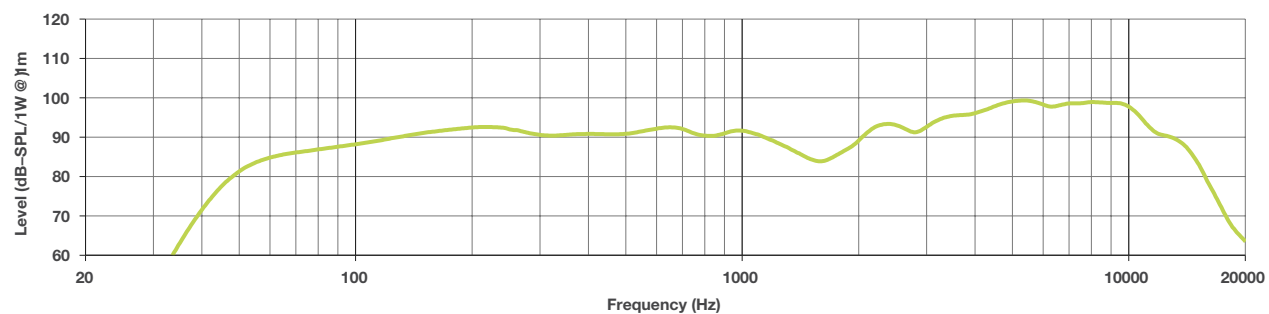
Beamwidth



Impedance



On-Axis Response



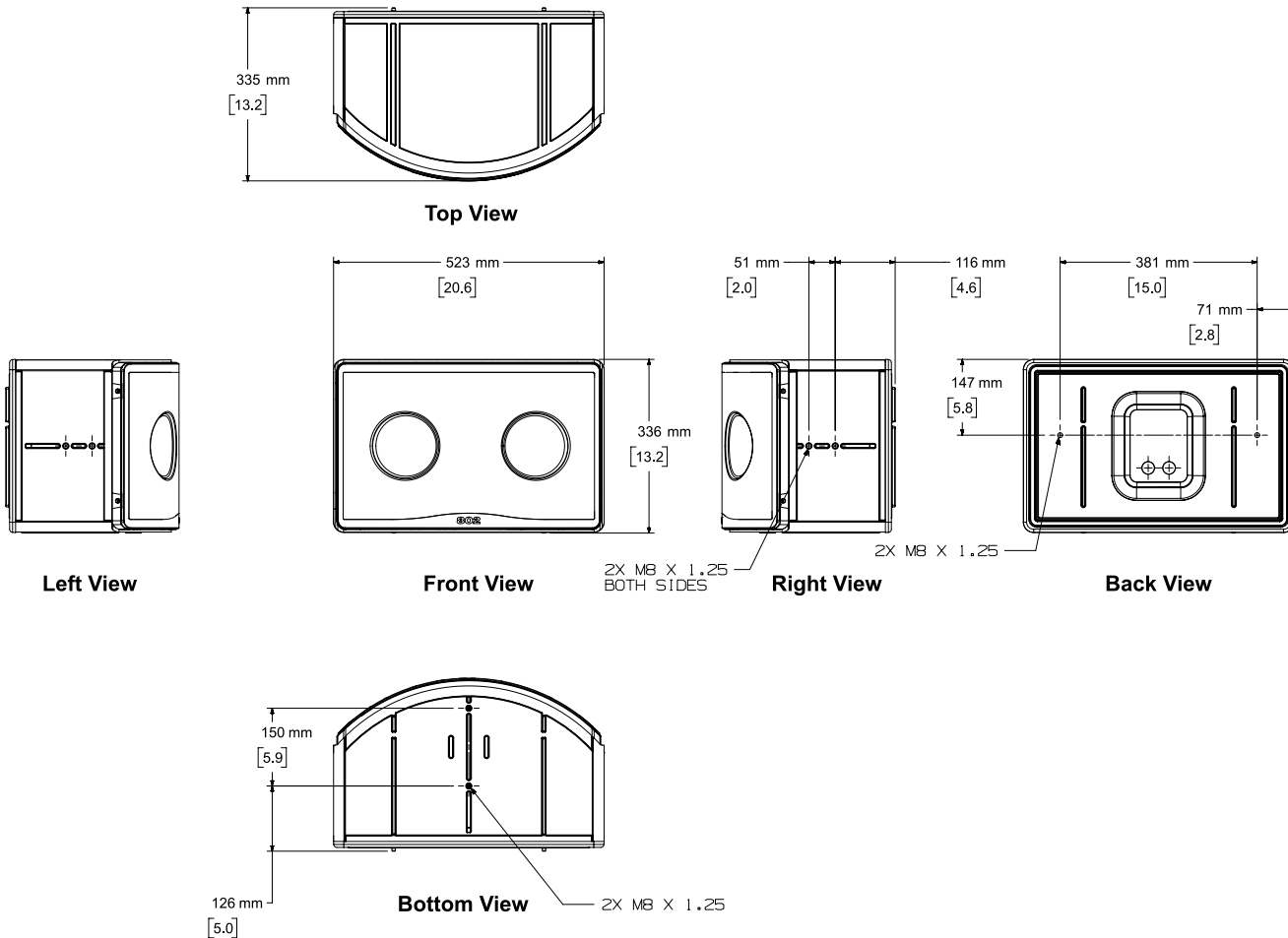
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Mechanical Drawings

TECHNICAL DATA SHEET



Footnotes

1. Frequency range measured on-axis with recommended EQ in an anechoic environment.
2. Bose extended-lifecycle test: pink noise, IEC268-5 filtered, 6-dB crest factor, 100-hour duration, with recommended EQ.
3. AES component test: pink noise, IEC268-5 filtered, 6-dB crest factor, 2-hour duration, with recommended EQ.
4. Sensitivity measured in anechoic acoustic boundary conditions with recommended EQ, referenced to 1W/m.
5. Maximum SPL calculated from sensitivity and power handling specifications, exclusive of power compression.