

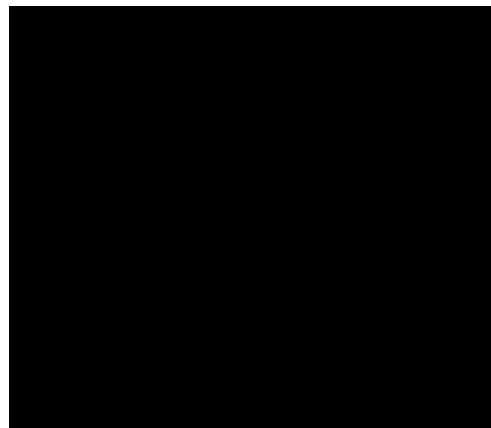
Panaray® 402® Series IV

Installed Sound-Reinforcement Loudspeaker



Key Features

- Full-Range-Driver Array eliminates tweeters and crossovers for unsurpassed reliability in harsh environments and vocal clarity
- 4 x Bose 4.5-inch full-range drivers for legendary reliability
- 120° x 60° Articulated Array® design covers a very wide area, which can reduce the number of loudspeakers required
- 73 Hz - 15 kHz frequency range eliminates need for subwoofers for moderate full-range music levels
- 119 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



Product Overview

The Panaray® 402® 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 60° coverage, can reduce the number of required loudspeakers, while the 73-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

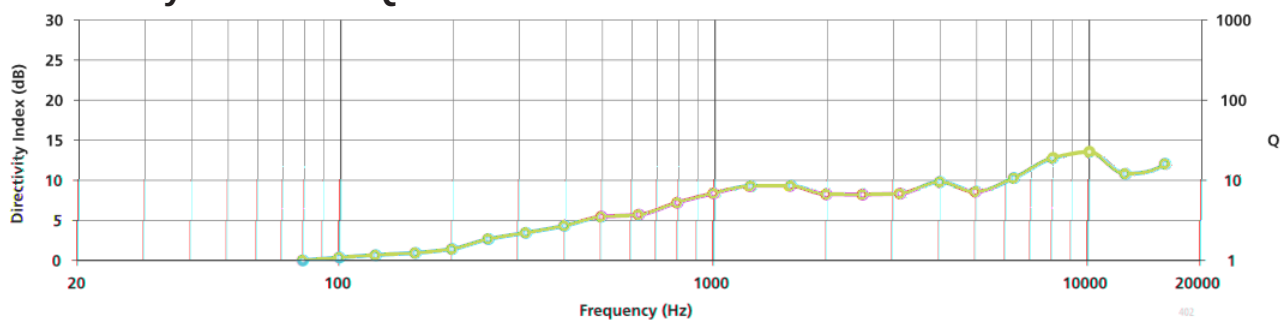
System Performance		
Frequency Range (–10 dB) ¹	73 Hz - 15 kHz	
Recommended High-Pass Protection Filter	75 Hz with minimum 12 dB / octave filter	
Nominal Coverage Pattern	120° H x 60° V	
Loudspeaker EQ	Active EQ required for optimal performance	
Overload Protection	Power limiting circuit (non-fused; automatic reset)	
	Bose extended-lifecycle test ²	AES component test ³
Power Handling, long-term continuous	120 W	150 W
Power Handling, peak	480 W	600 W
	Free field	Free field
Sensitivity (SPL/ 1W @ 1 m) ⁴	91 dB	91 dB
Calculated Maximum SPL @ 1 m ⁵	112 dB	113 dB
Calculated Maximum SPL @ 1 m, peak	118 dB	119 dB
Transducers		
Full-range drivers	4 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	7 x M8 threaded inserts (4 back, 2 bottom, 1 top)	
Dimensions (H x W x D)	592 mm x 206 mm x 202 mm (23.3" x 8.1" x 8.0")	
Net Weight	16 pounds (7.3 kg)	
Shipping Weight	20 pounds (9.1 kg)	
Product Code		
Black	739706-0110	
White	739706-0210	

Panaray® 402® Series IV

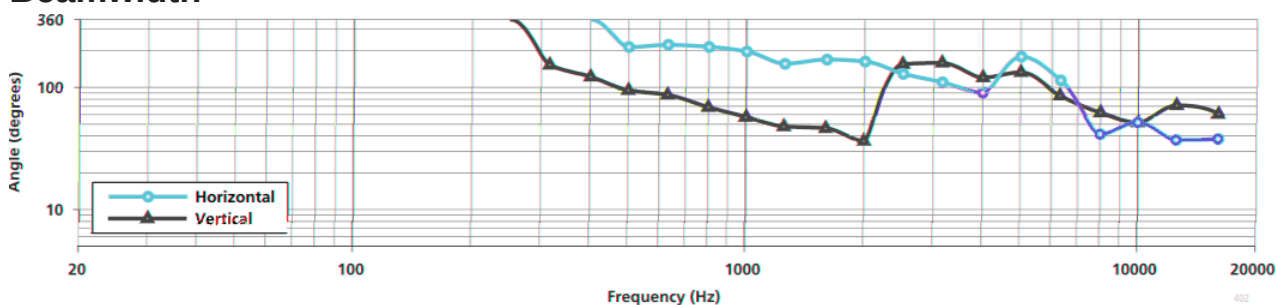
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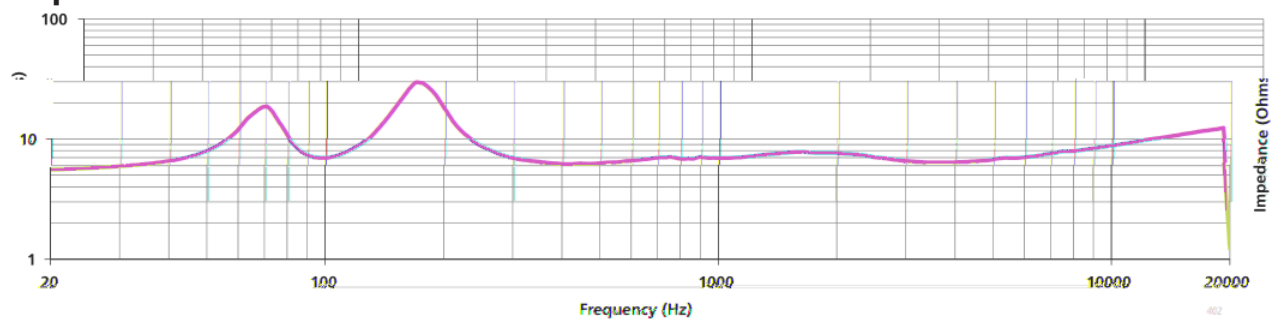
Directivity Index and Q



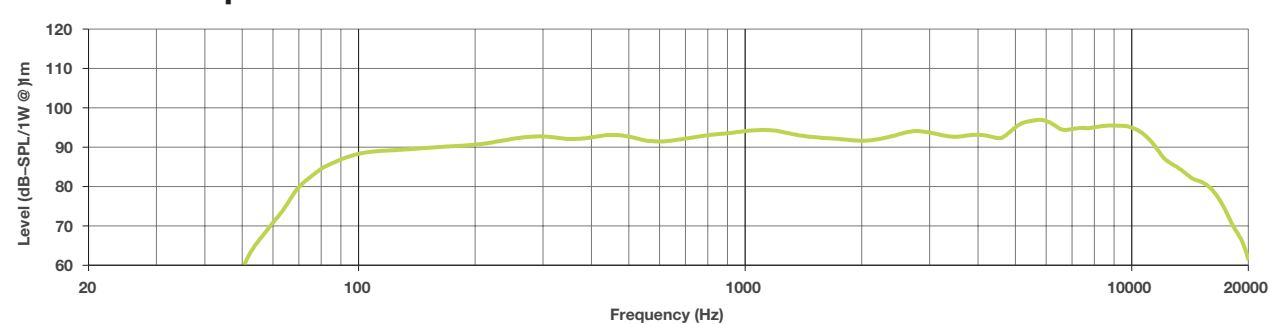
Beamwidth



Impedance



On-Axis Response



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Mechanical Drawings

TECHNICAL DATA SHEET

Top View

206 mm 202 mm
8.1 8.0

592 mm
23.3

256 mm 127 mm
5.0

70 mm
2.8

Left View

Front View

Right View

Back View

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.

For additional specifications and application information, please visit pro.Bose.com. Specifications subject to change without notice.