

# Panaray® 802® Series IV

## Installed Sound-Reinforcement Loudspeaker

**BOSE**

### Key Features

- Full-Range-Driver Array eliminates tweeters and crossovers for unsurpassed reliability in harsh environments and vocal clarity
- 8 x Bose 4.5-inch 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°x100° 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) <sup>1</sup>	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 <sup>2</sup>	AES component test <sup>3</sup>
Power Handling, long-term continuous	240 W	300 W
Power Handling, peak	960 W	1200 W
	Free field	Free field
Sensitivity (SPL/ 1W @ 1 m) <sup>4</sup>	92 dB	92 dB
Calculated Maximum SPL @ 1 m <sup>5</sup>	116 dB	117 dB
Calculated Maximum SPL @ 1 m, peak	122 dB	123 dB
Transducers		
Full-range drivers	8 x Bose 4.5-inch (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	8x M8 threaded inserts (2 back, 2 bottom, 4 sides)	
Dimensions (H x W x D)	13.3" x 20.5" x 13.2" (338 x 520 x 335 mm)	

# Panaray® 802® Series IV

## Installed Sound-Reinforcement Loudspeaker



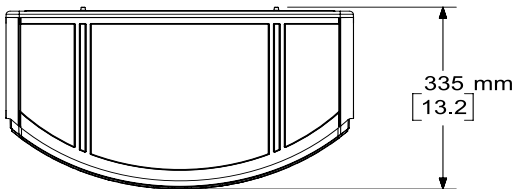
Net Weight	30 lbs (13.6 kg)
Shipping Weight	38 lbs (17.2 kg)
<b>Product Code</b>	
Black	739058-0110

Footnotes

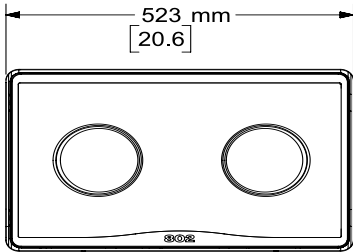
1. Frequency range measured on-axis with recommended EQ in an anechoic environment.
2. Bose extended-lifecycle test: pink noise, IEC268-5 filtered, 6-dB crest factor, 100-hour duration, with recommended EQ.
3. AES component test: pink noise, IEC268-5 filtered, 6-dB crest factor, 2-hour duration, with 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 specifcaitons and application inofrmation, please visit pro.Bose.com. Specifications subject to change wihtout notice.

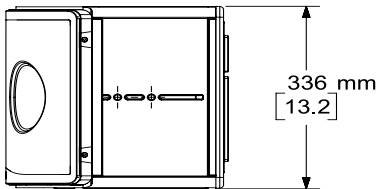
### Mechanical Drawings



Top View



Front View



Right View

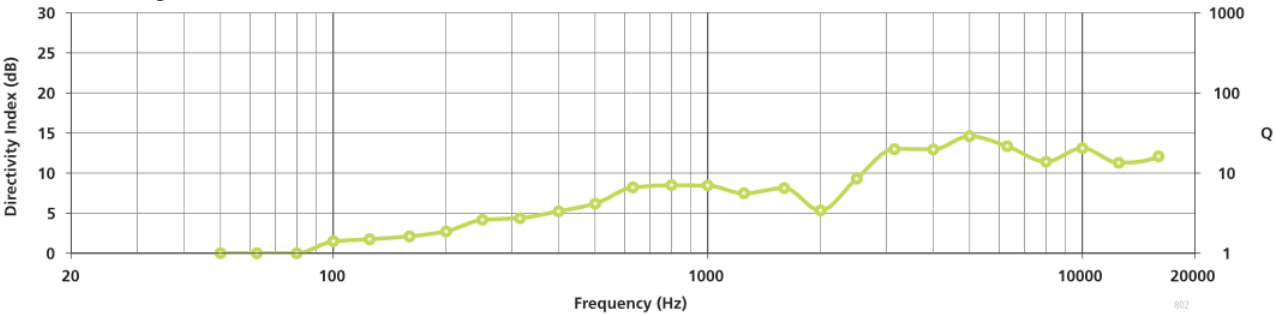
# Panaray® 802® Series IV

Installed Sound-Reinforcement Loudspeaker

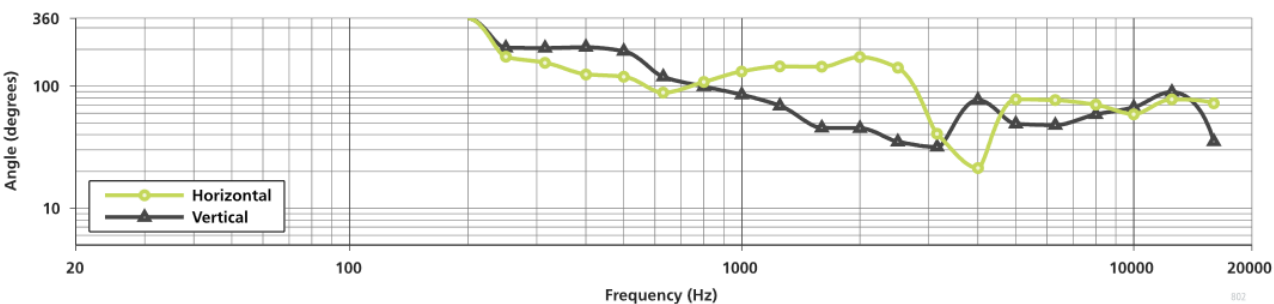


TECHNICAL DATA SHEET

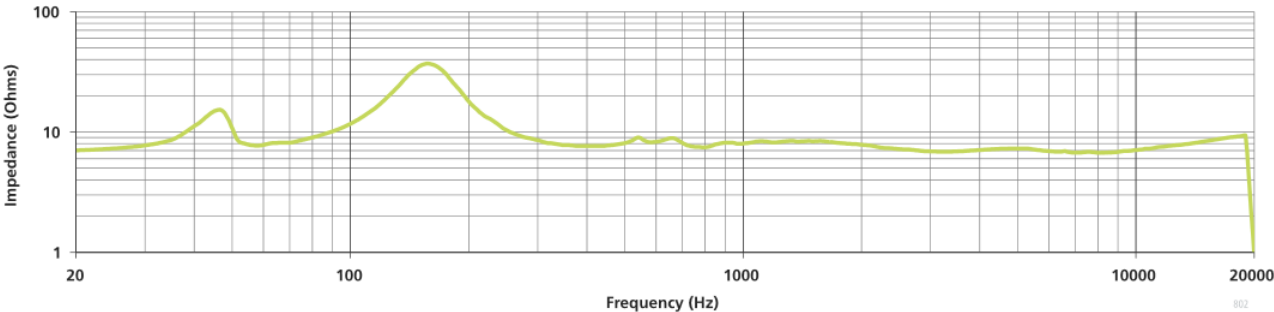
## Directivity Index and Q



## Beamwidth



## Impedance



## On-Axis Response

