# Panaray<sup>®</sup> 802<sup>®</sup> 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<sup>®</sup> 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, lighweight enclosure with threaded inserts for easy installations
- · Weather-Rated design for indoor or outdoor installations
- Requires active equalization



The Panaray<sup>®</sup> 802<sup>®</sup> 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<sup>®</sup> 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)'     52 Hz vikh minimum 12 dB / octave filter       Recommended High-Pass Protection Filter     55 Hz with minimum 12 dB / octave filter       Nominal Coverge Pattern     120° H x 100° V       Loudspeaker EQ     Active EQ required for optimal performance       Overload Protection     Power limiting circuit (non-fused; automatic reset)       Power Handling, Iong-term continuous     240 W       Power Handling, peak     960 W       Power Handling, peak     960 W       Power Handling, peak     92 dB       Power Handling, peak     92 dB       Calculated Maximum SPL@ 1 m <sup>4</sup> 116 dB       Calculated Maximum SPL@ 1 m <sup>4</sup> 116 dB       Calculated Maximum SPL@ 1 m <sup>4</sup> 122 dB       Calculated Maximum SPL@ 1 m <sup>4</sup> 122 dB       Calculated Maximum SPL@ 1 m <sup>4</sup> 122 dB       Full-range drivers     8 x Bose 4.5" (114 mm) full-range cone transducers       Full-range drivers     8 x Mose 4.5" (114 mm) full-range cone transducers       Nominal Impedance     8 x Mus threaded insert [c foor Gal HDPE       Grile     Power-caated steel grille       Errvirorumental     Outdoor per IeC 529 IP55 </th <th></th> <th></th> <th></th>				
Recommended High-Pass Protection Filter     55 Hz with minimum 12 dB / octave filter       Nominal Coverage Pattern     120° H x 100° V       Loudspaaker EQ     Active EQ required for optimal performance       Overload Protection     Power Imiting circuit (non-fused; automatic reset)       Power Handling, long-term continuous     240 W     300 W       Power Handling, peak     960 W     1200 W       Free field     Free field     Free field       Sensitivity (SPL / 1 W @ 1 m) <sup>4</sup> 92 dB     92 dB     92 dB       Calculated Maximum SPL @ 1 m <sup>5</sup> 116 dB     117 dB     120 dB       Calculated Maximum SPL @ 1 m <sup>5</sup> 8 x Bose 4.5° (114 mm) full-range cone transducers     120 dB       Powier Handling Inpedance     8 v Bose 4.5° (114 mm) full-range cone transducers     120 dB       Powier Sontial pedance     8 v Bose 4.5° (114 mm) full-range cone transducers     120 dB       Powier Sontial pedance     8 v Bose 4.5° (114 mm) full-range cone transducers     120 dB       Powier Sontial pedance     8 v Bose 4.5° (114 mm) full-range cone transducers     120 dB       Powier Sontial pedance     8 v Bose 4.5° (114 mm) full-range cone transducers     120 dB       Powier Sontial pedance <t< td=""><td>System Performance</td><td></td><td></td></t<>	System Performance			
Nominal Coverage Pattern     120° H × 100° V       Loudspeaker EQ     Active EQ required for optimal performance       Overload Protection     Power limiting circuit (non-fused; automatic reset)       Bose extended-lifecycle test'     AES component test'       Power Handling, long-tern continuous     240 W     300 W       Power Handling, peak     960 W     1200 W       Power Handling, peak     960 W     200 W       Sensitivity (SPL / 1 W @ 1 m)*     92 dB     92 dB       Salculated Maximum SPL @ 1 m <sup>a</sup> 116 dB     117 dB       Calculated Maximum SPL @ 1 m <sup>a</sup> 122 dB     23 dB       Tansducers     Ferdisal     127 dB       Full-range drivers     8 x Bose 4.5° (114 mm) full-range cone transducers     Nominal Impedance       Physical     100 or per IEC 529 IPS5     Environmental     Outdor per IEC 529 IPS5       Connectors     2 x Neutrik® NL4 wired parallel     Environm, 4 sides;     Environm, 4 sides;       Suspension / Mounting     33 mm x 523 mm x 335 mm (13.3" x 20.5" x 13.2")     Immensions (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)     Immensions (H x W x D)     Immensio	Frequency Range (–10 dB) <sup>1</sup>	52 Hz - 15 kHz		
Loudspeaker EQ     Active EQ required for optimal performance       Overload Protection     Power limiting circuit (non-fused; automatic reset)       Bose extended-lifecycle test*     AES component test*       Power Handling, long-term continuous     240 W     300 W       Power Handling, peak     600 W     1200 W       Power Handling, peak     960 W     92 dB     92 dB       Sensitivity (SPL/1 W@1 m)*     92 dB     92 dB     92 dB       Sensitivity (SPL/1 W@1 m)*     92 dB     92 dB     92 dB       Calculated Maximum SPL@1 m, peak     116 dB     117 dB     123 dB       Calculated Maximum SPL@1 m, peak     8 x Bose 4.5" (114 mm) full-range cone transducers     X     X       Full-range drivers     8 x Bose 4.5" (114 mm) full-range cone transducers     X     X     X       Physical     Imeral-reinforced HDPE	Recommended High-Pass Protection Filter	55 Hz with minimum 12 dB / octave filter		
Overload Protection     Power limiting circuit (non-fused; automatic reset)       Bose extended-lifecycle test <sup>1</sup> AES component test <sup>1</sup> Power Handling, long-term continuous     240 W     300 W       Power Handling, peak     960 W     1200 W       Pree field     Free field     Free field       Sensitivity (SPL / 1 W @ 1 m) <sup>4</sup> 92 dB     92 dB     92 dB       Calculated Maximum SPL @ 1 m <sup>4</sup> 116 dB     117 dB     123 dB       Calculated Maximum SPL @ 1 m, peak     122 dB     123 dB     123 dB       Tansducers     Full-range drivers     8 x Bose 4.5" (114 mm) full-range cone transducers     Sensitivity (SPL / 1 W @ 1 m) <sup>4</sup> Sensitivity (SPL / 1 M @ 1 m) full-range cone transducers     Sensitivity (SPL / 1 W @ 1 m) <sup>4</sup> Sensitivity (SPL / 1 M @ 1 m)     Sensitivity (SPL / 1 M @ 1 m) <td>Nominal Coverage Pattern</td> <td>120° H x 100° V</td> <td></td>	Nominal Coverage Pattern	120° H x 100° V		
Bose extended-lifecycle test*     AES component test*       Power Handling, long-term continuous     240 W     300 W       Power Handling, peak     960 W     1200 W       Power Handling, peak     960 W     1200 W       Power Handling, peak     92 dB     92 dB       Sensitivity (SPL / 1 W @ 1 m) <sup>4</sup> 92 dB     92 dB       Calculated Maximum SPL @ 1 m, peak     116 dB     117 dB       Calculated Maximum SPL @ 1 m, peak     122 dB     123 dB       Tansducers      112 dB     123 dB       Full-range drivers     8 x Bose 4.5" (114 mm) full-range cone transducers     Nominal Impedance     8 ohms       Physical           Environmental     Outdor 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)	Loudspeaker EQ	Active EQ required for optimal performance		
Power Handling, long-term continuous     240 W     300 W       Power Handling, peak     960 W     1200 W       Pree field     Free field       Sensitivity (SPL /1 W @ 1 m) <sup>4</sup> 92 dB     92 dB       Calculated Maximum SPL @ 1 m <sup>4</sup> 116 dB     117 dB       Calculated Maximum SPL @ 1 m, peak     122 dB     123 dB       Calculated Maximum SPL @ 1 m, peak     120 B     123 dB       Tarsducers     V     V     V       Full-range drivers     8 x Bose 45." (114 mm) full-range cone transducers     V     V       Nominal Impedance     8 x Bose 45." (114 mm) full-range cone transducers     V     V       Physica     V     V     V     V     V       Enclosure Material     Micralerienforced HDPE     V     V     V       Grille     Powder-coated stell grille     V <td< td=""><td rowspan="2">Overload Protection</td><td colspan="3">Power limiting circuit (non-fused; automatic reset)</td></td<>	Overload Protection	Power limiting circuit (non-fused; automatic reset)		
Power Handling, peak     960 W     1200 W       Free field     Free field       Sensitivity (SPL / 1 W @ 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       Calculated Maximum SPL @ 1 m, peak     8 x Bose 4.5" (114 mm) full-range cone transducers     Full-range drivers       Full-range drivers     8 x Bose 4.5" (114 mm) full-range cone transducers     Full-range drivers       Nominal Impedance     8 x Bose 4.5" (114 mm) full-range cone transducers     Full-range drivers       Nominal Impedance     8 ohms     Full-range drivers     8 ohms       Physical     Enclosure Material     Mineral-reinforced HDPE     Full-range drivers       Grille     Powder-coated steel grille     Full-range drivers     Su Nastrike® NL4 wired parallel       Suspension / Mounting     8 x M8 threaded inserts (2 back, 2 bottom, 4 sides)     Full-range drivers (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")     Full-range drivers (2 back, 2 bottom, 4 sides)       Shipping Weight     1.2 kg (38 lbs)     Full-range drivers (2 back, 2 bottom, 4 sides)     Full-range drivers (2 ba		Bose extended-lifecycle test <sup>2</sup>	AES component test <sup>3</sup>	
Free field     Free field       Sensitivity (SPL/1W@1m) <sup>4</sup> 92 dB       Calculated Maximum SPL@1m <sup>5</sup> 116 dB       Calculated Maximum SPL@1m <sup>6</sup> 122 dB       Calculated Maximum SPL@1m, peak     122 dB       Calculated Maximum SPL@1m, peak     122 dB       Full-range drivers     8 x Bose 4.5" (114 mm) full-range cone transducers       Full-range drivers     8 ohms       Physical     Soma       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)	Power Handling, long-term continuous	240 W	300 W	
Sensitivity (SPL/1 W@ 1 m)*92 dB92 dB92 dBCalculated Maximum SPL@ 1 m*116 dBCalculated Maximum SPL@ 1 m, peak122 dB122 dB123 dBTransducersFull-range drivers8 x Bose 4.5" (114 mm) full-range cone transducersNominal Impedance8 x Bose 4.5" (114 mm) full-range cone transducersPhysicalPhysicalFund-conter driversFolder - Ferific Ced HDPEGrillePouder-coated steel grilleConnectorsOutdoor per IEC 529 IP55Connectors2 x Neutrik® NL4 wired parallelSuspension / Mounting8 x M8 threaded inserts (2 back, 2 bottom, 4 sides)Enclosure MaterialSide mm x 523 mm x 335 mm (13.3" x 20.5" x 13.2")Net Weight13.6 kg (30 lbs)Fundet Code	Power Handling, peak	960 W	1200 W	
Calculated Maximum SPL @ 1 m*116 dB117 dBCalculated Maximum SPL @ 1 m, peak122 dB123 dBTansducersFull-range drivers8 x Bose 4.5" (114 mm) full-range cone transducersNominal Impedance8 x Bose 4.5" (114 mm) full-range cone transducersPhysicalEnclosure MaterialMineral-reinforced HDPEGrillePowder-coated steel grilleConnectors2 x Neutrik® NL4 wired parallelSuspension / Mounting8 x M8 threaded inserts (2 back, 2 bottom, 4 sides)Dimensions (H x W x D)36 mm x 523 mm x 335 mm (13.3" x 20.5" x 13.2")Net Weight13.6 kg (30 lbs)Shipping Weight17.2 kg (38 lbs)Product Code		Free field	Free field	
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   Full-range drivers     Nominal Impedance   8 ohms   Forsical   Forsical     Physical   Mineral-reinforced HDPE   Forder-coated steel grille     Grille   Powder-coated steel grille   Fordoor per IEC 529 IP55     Connectors   2 x Neutrik® NL4 wired parallel   Suspension / Mounting     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)	Sensitivity (SPL / 1 W @ 1 m)⁴	92 dB	92 dB	
TansducersFull-range drivers8 x Bose 4.5" (114 mm) full-range cone transducersNominal Impedance8 ohmsPhysicalEnclosure MaterialMineral-reinforced HDPEGrillePowder-coated steel grilleEnvironmentalOutdoor per IEC 529 IP55Connectors2 x Neutrik® NL4 wired parallelSuspension / Mounting8 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 Weight13.6 kg (30 lbs)Shipping Weight17.2 kg (38 lbs)	Calculated Maximum SPL @ 1 m <sup>5</sup>	116 dB	117 dB	
Full-range drivers   8 x Bose 4.5" (114 mm) full-range cone transducers     Nominal Impedance   8 ohms     Physical   Enclosure Material     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)	Calculated Maximum SPL @ 1 m, peak	122 dB	123 dB	
Nominal Impedance 8 ohms   Physical Enclosure Material   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)	Transducers			
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)	Full-range drivers	8 x Bose 4.5" (114 mm) full-range cone transducers		
Enclosure MaterialMineral-reinforced HDPEGrillePowder-coated steel grilleEnvironmentalOutdoor per IEC 529 IP55Connectors2 x Neutrik® NL4 wired parallelSuspension / Mounting8 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 Weight13.6 kg (30 lbs)Shipping Weight17.2 kg (38 lbs)Product Code	Nominal Impedance	8 ohms		
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)	Physical			
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)	Enclosure Material	Mineral-reinforced HDPE		
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     Fordure Code	Grille	Powder-coated steel grille		
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     Image: State S	Environmental	Outdoor per IEC 529 IP55		
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     19.0 mm x 10.0 mm x	Connectors	2 x Neutrik® NL4 wired parallel		
Net Weight 13.6 kg (30 lbs)   Shipping Weight 17.2 kg (38 lbs)   Product Code 17.2 kg (38 lbs)	Suspension / Mounting	8 x M8 threaded inserts (2 back, 2 bottom, 4 sides)		
Shipping Weight 17.2 kg (38 lbs)   Product Code Image: Code Code Code Code Code Code Code Code	Dimensions (H x W x D)	336 mm x 523 mm x 335 mm (13.3" x 20.5" x 13.2" )		
Product Code	Net Weight	13.6 kg (30 lbs)		
	Shipping Weight	17.2 kg (38 lbs)		
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Panaray<sup>®</sup> 802<sup>®</sup> Series IV Installed Sound-Reinforcement Loudspeaker

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# Panaray® 802® Series IV

**Installed Sound-Reinforcement Loudspeaker** 

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#### **Mechanical Drawings**





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.





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