

Panaray® 502® Loudspeaker System



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Panaray® 502® Loudspeaker System



A premium sound solution.

This Bose® loudspeaker system is engineered to provide high-quality sound for permanent installations. The system includes 502®A speaker arrays and a 502B Acoustimass® enclosure. This innovative system delivers even coverage of all frequencies. Its compact size makes it well-suited for venues where aesthetics and audience sight lines are important, such as houses of worship, auditoriums, theaters, airports, gymnasiums and mall atriums.

Smooth sound and controlled coverage.

The foundation of the system is the compact 502A mid-high frequency speaker array. Behind each grille are five 4.5-inch full-range drivers in a patented array. This allows for more controlled horizontal and vertical coverage patterns, making the 502A an excellent choice for speech and light music applications.



Extended bass performance.

For installations that require additional bass extension, the 502B enclosure enables the system to deliver low-frequency response down to 55Hz. Using Bose exclusive Acoustimass speaker technology, low-frequency sound is launched on two air masses, acoustically filtering out audible distortion. As a result, the low-frequency sound is non-localizable so the enclosure can be placed where it is most convenient – even hidden out of sight.



502B Acoustimass enclosure

Sleek, elegant design.

The compact size of the 502A speaker arrays greatly reduces interference with décor or sight lines. And the hideaway 502B makes the system even more unobtrusive. Additionally, both the 502A speaker arrays and the 502B Acoustimass enclosure can be painted to blend in with nearly any environment.



One-touch equalization.

The Panaray® system digital controller provides a one-box solution for proper system equalization. It is designed for the Panaray loudspeaker system and enables one-touch system equalization to save installation and setup time.



Panaray system digital controller

Solving challenges for sound contractors.

An entire division of Bose engineers and researchers is dedicated to developing better speakers and components for professional applications. The Panaray 502 loudspeaker system is designed for permanent installation and offers valuable benefits to sound system designers.

- Unobtrusive, aesthetically pleasing design.
- Smooth frequency response over the entire listening area.
- Non-localizable bass that allows 502B enclosure to be placed out of sight.

Reliable performance for demanding public spaces.

Bose full-range drivers make Panaray 502 loudspeakers more reliable than conventional speakers whose small, separate tweeters often cannot handle the high power and extended-use demands of professional applications. In addition, Panaray 502 loudspeakers are backed by a transferable five-year limited warranty.



Quick-scan benefits of the Panaray 502 Loudspeaker System

Patented five-driver array reproduces full, natural music and intelligible speech.

Bose 4½" drivers provide more reliability than conventional loudspeakers.

Engineered for smooth coverage at all frequencies.



Panaray® 502® B Acoustimass® Enclosure

Panaray 502A Loudspeakers



Panaray System Digital Controller

Voice and music reinforcement from 55Hz to 15kHz when used with 502B.

Non-localizable bass allows 502B enclosure to be placed out of sight.

Modular components allow for system design flexibility.

Sleek, elegant design for architectural compatibility.

Loudspeakers are paintable to match décor.

Installer-friendly – full range of brackets available.

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Better sound through research®

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Specifications

502A Loudspeaker

Dimensions:

6.75" D x 5.75" W x 23.5" H (17.1 cm x 14.6 cm x 59.7 cm)

Weight:

15 lbs. (16.8 kg)

Driver complement:

Five 4½" full-range drivers per speaker

Maximum acoustic output:

112dB-SPL

Impedance:

8Ω nominal

Long-term power handling:

150W continuous

Sensitivity:

90dB-SPL @ 1W, 1m

Frequency range:

130Hz to 15kHz ± 3dB

Beamwidth:

120° horizontal, 70° vertical

Connectors:

Two parallel-wired barrier strips or XLR connectors

Color:

Professional Gray or Arctic White

502B Acoustimass Enclosure

Dimensions:

15.5" D x 14.0" W x 31.0" H
(39.4 cm x 35.6 cm x 78.7 cm)

Weight:

85 lbs. (38.6 kg)

Driver complement:

One 12" woofer

Maximum acoustic output:

115dB-SPL

Impedance:

8Ω nominal

Long-term power handling:

450W continuous

Sensitivity:

90dB-SPL @ 1W, 1m

Frequency range:

55Hz to 150Hz

Connectors:

Two parallel-wired barrier strips

Color:

Professional Gray or Arctic White

Active Equalization

Bose® Panaray® system digital controller featuring one-touch equalization, 4 independent programmable delays, limiters and signal routing.

502A EQ card provides active equalization for 502A loudspeakers.

502B EQ card provides active equalization for 502B enclosure combined with Bose 302™A, 402® II, 502A, 802® III or MA12 loudspeakers.

MB4 EQ card provides active equalization for MB4 enclosure combined with Bose 302A, 402 II, 502A, 802 III or MA12 loudspeakers.

Accessories

CSB-5A mounting bracket for two-point suspended mounting of a 502A array.

CSB-5B mounting bracket for two-point suspended mounting of a 502B enclosure.

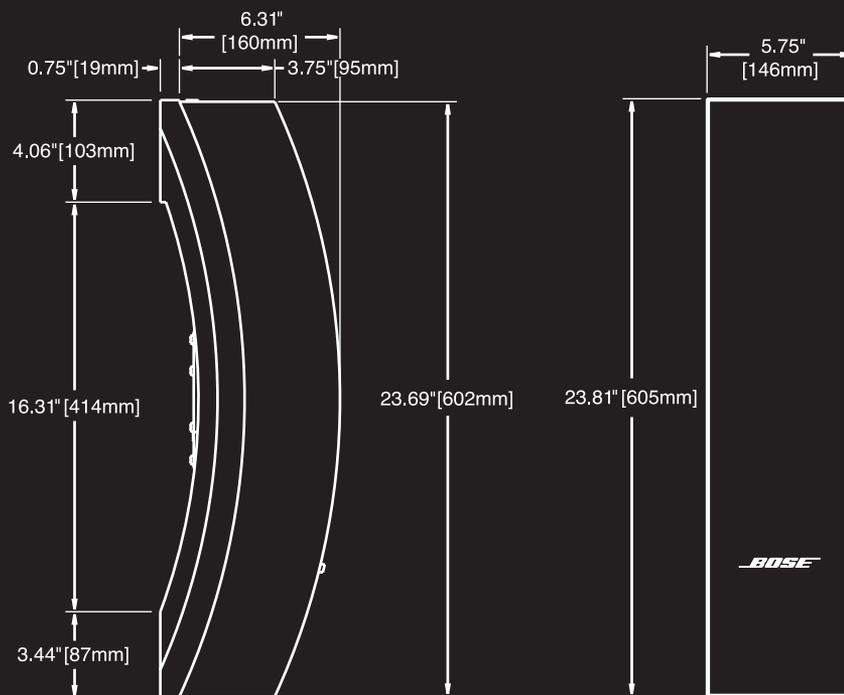
WCB-5 U-bracket for wall or ceiling mounting.

WBP-5 bi-pivot bracket for wall or ceiling mounting.

SS-10 speaker stand with mounting adapter and carry bag.

PSA-5 stand adapter for use when placing 502A on the SS-10 portable stand.

CVT-5 transformer for use in 70V/100V systems.



**For more information
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