



Products and accessories

Bose®
FreeSpace® 3-I
loudspeaker
system

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Bose® FreeSpace® 3-I loudspeaker system



TECHNICAL INFORMATION

FREESPACE 3 SYSTEM

Frequency range
50Hz to 16kHz (± 3 dB)

System configurations

- 70V/100V (25W, 50W, 100W, 200W taps) monaural
- Transformer bypass: mono or stereo

Sensitivity¹

82dB-SPL @ 1W, 1m (pink noise)

Maximum acoustic output

93dB-SPL average in a 45,000 ft³ room, with an RT60 of 1 second, ± 3 dB

Long-term power handling⁴

100W continuous
200W peak

Nominal impedance

4-cube system, direct: 6 Ω per channel
2-cube system, direct: 5 Ω per channel

FREESPACE 3 SATELLITE

Frequency range
210Hz to 16kHz (± 3 dB)

Sensitivity¹

84dB-SPL @ 1W, 1m (pink noise)

Maximum acoustic output²

95dB-SPL @ 1m (pink noise)
92dB-SPL @ 1m (IEC³ noise)

Dispersion (-6dB point, average, 1-4kHz)

170° conical

Long-term power handling⁴

12W continuous

Nominal impedance

6 Ω

Mechanical specifications

Dimensions (W x H x D): 7.9 x 7.9 x 8.1 cm

Weight: 0.8 kg

Connectors: guillotine

Mounting hardware included: wall-mount brackets.

Bracket angles: $\pm 30^\circ$ pitch, 90° yaw

FREESPACE 3 ACOUSTIMASS® MODULE

Frequency range

50Hz to 210Hz (± 3 dB)

Sensitivity¹

76dB @ 1W, 1m (pink noise) per channel
79dB-SPL @ 1W, 1m (pink noise) mono

Maximum acoustic output²

96dB-SPL @ 1m (pink noise and IEC noise) per channel

102dB-SPL @ 1m (pink noise and IEC noise) mono

Long-term power handling⁴

50W per channel (100W mono) continuous
100W per channel (200W mono) peak

Nominal impedance

Direct: 5 Ω mono

Dispersion

Omnidirectional

1. Full bandwidth pink noise is amplified to a level at the loudspeaker terminals corresponding to 1 Watt as referenced to the nominal impedance. The average sound pressure level (dB-SPL) is measured at 1 metre from the speaker in an anechoic environment.

2. Full bandwidth pink noise is amplified to a level at the loudspeaker terminals corresponding to the long-term rated power handling of the speaker. The average sound pressure level (dB-SPL) is measured at 1 metre from the speaker in an anechoic environment.

3. Full bandwidth pink noise, meeting International Electrotechnical Commission (IEC) Standard #268-5, with a spectrum corresponding to average program material.

4. Full bandwidth noise, meeting the IEC Standard #268-5 is amplified to a level at the loudspeaker terminals corresponding to the power handling of the loudspeaker. The loudspeaker must show no visible damage or measurable loss of performance after 100 hours of continuous testing.

Mechanical specifications

Dimensions (W x H x D):
22.1 x 35.6 x 34.5 cm (w/bracket)

Weight: 7.9 kg

Fuses/protection: internal over-power protection

Connectors: screw terminal

Mounting hardware included: bracket, attached to module

Optional accessories

FreeSpace® 3 Acoustimass® module is compatible with use of the Bose® SC-1B ceiling installation mounting bracket, but cannot be installed in plenum spaces.

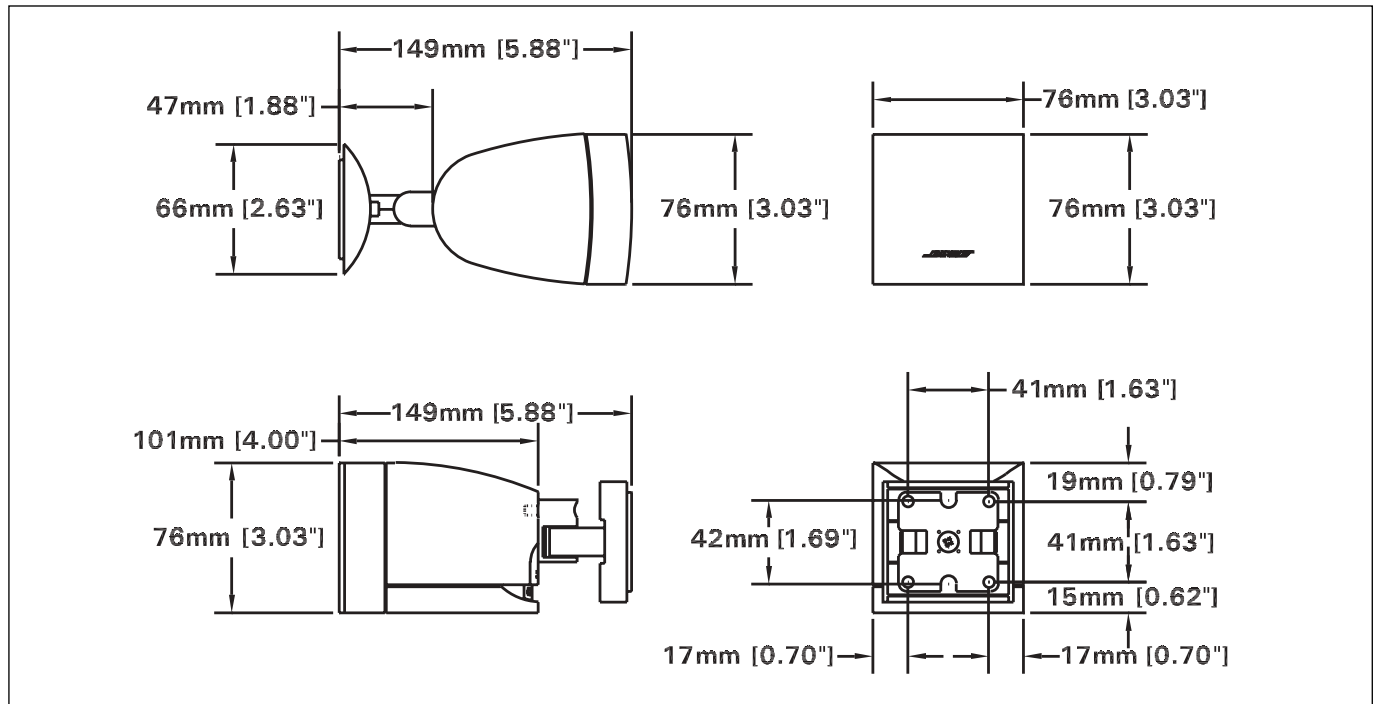
GENERAL DESCRIPTION

The Bose FreeSpace 3 loudspeaker system is a 200W speaker system designed to provide full, lifelike sound from a Virtually

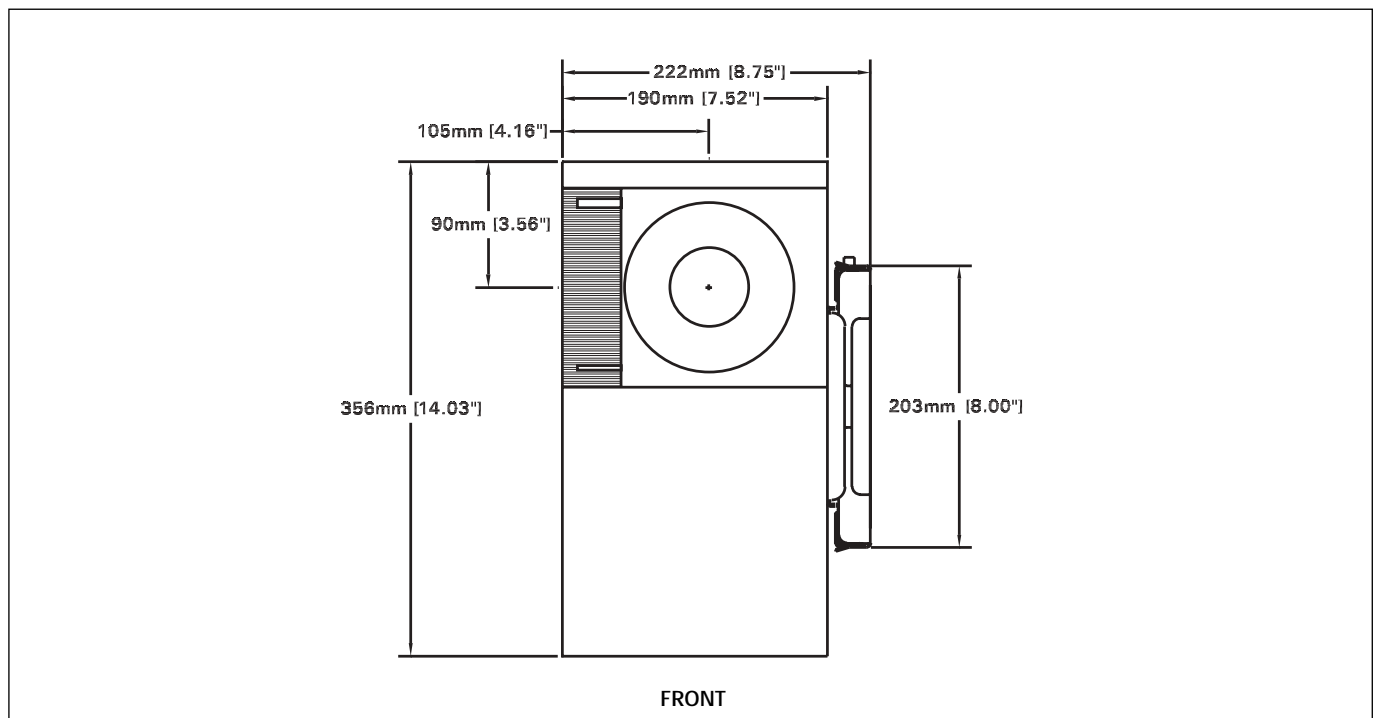
Invisible® system. The product has the following features:

- High-fidelity sound over a large coverage area
- Acoustimass speaker technology allows the bass module to be hidden
- Virtually Invisible® satellites that are unobtrusive and stylish
- Wall-mount brackets for easy installation and aiming
- Built-in transformer with multiple tap

FREESPACE 3 SATELLITE WITH BRACKET



FREESPACE 3 ACOUSTIMASS MODULE WITH BRACKET



FREESPACE 3 SATELLITE WITH BRACKET

settings and easy tap adjustment or transformer bypass

- Modular design supports the flexibility to use 2 or 4 satellites per module or add modules
- Module connector panel cover for appearance and tamper resistance
- Available in black or white, or may be painted with latex or oil-based paint

INSTALLATION

The FreeSpace® 3 Acoustimass® module is used for bass augmentation in commercial installations of FreeSpace business music systems. Professional installation and wiring is recommended. The module is not plenum rated. Satellite speakers are designed for wall mounting with use of the supplied brackets. The bracket allows each satellite to be angled to ± 30° pitch and 90° yaw for ideal coverage.

SYSTEM CONFIGURATION

The FreeSpace 3 loudspeaker system consists of an Acoustimass® module with bracket and connections cover, plus four satellite speakers with wall brackets.

The module may be purchased alone for use in a 70V/100V system with other Bose® speakers, such as the FreeSpace model 8, model 32, model 32SE or FreeSpace 6 loudspeakers.

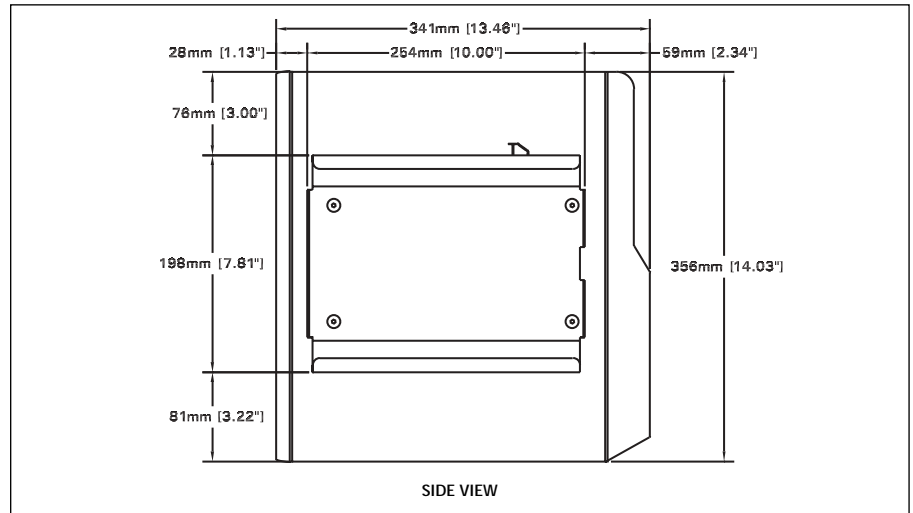
When used for bass augmentation of other Bose® speakers, the module must have a separate amplifier channel. Do not connect speakers, other than the FreeSpace 3 satellites, to the Acoustimass module.

LOUDSPEAKER CONFIGURATION

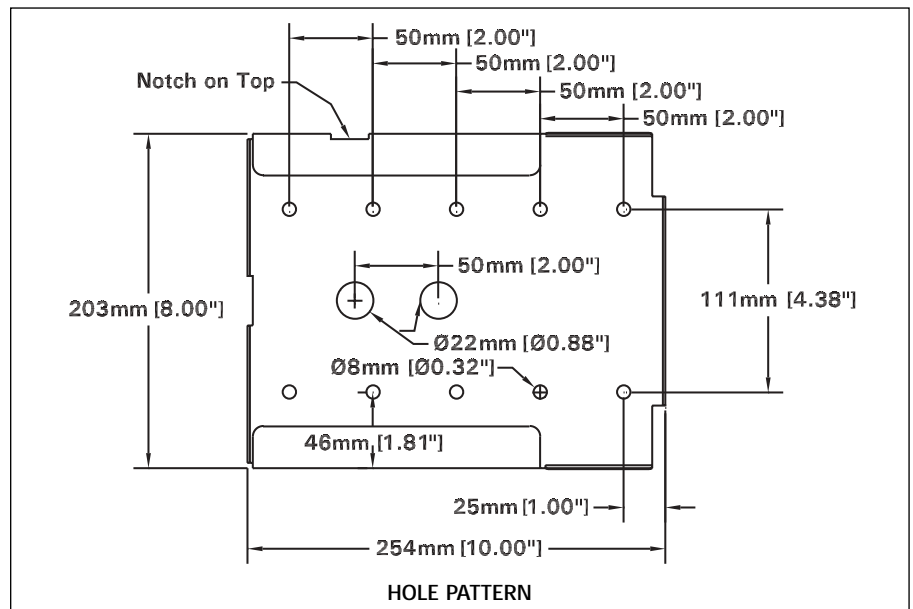
Detailed installation and setup instructions for the FreeSpace 3 loudspeaker system are provided in the Bose FreeSpace 3 loudspeaker system installation guide.

SAFETY AND REGULATORY COMPLIANCE

All versions of the Bose FreeSpace 3 loudspeaker system comply with ANSI/EIA 636, recommended loudspeaker safety practices and EMC directive 89/336/EEC and article 10 (1) of the directive in compliance with EN50081-1, EN50082-1, as signified by the CE mark.



FREESPACE 3 SATELLITE WITH BRACKET



ENGINEERS' AND ARCHITECTS' SPECIFICATIONS

The loudspeaker system shall be a 200-Watt, ported loudspeaker system that includes one Acoustimass module and two or four satellite speakers. It shall be capable of producing 93dB-SPL average in a 1250 m³ room with an RT60 of 1 second in a range of 50Hz to 16kHz (±3dB).

The module shall have one 13.3 cm dual voice coil low-frequency driver. The module shall have an input impedance of 5Ω for direct connection to equalised low impedance amplifier sources. Jumper wires shall integrate the multi-tap transformer for use of the loudspeaker in 70V or 100V systems. The transformer shall offer multiple taps of 25W, 50W, and 100W, and 200W.

Each satellite speaker shall have one 6.4 cm full-range driver. The nominal average dispersion shall be 170° at -6dB.

The input connector shall consist of a spring-type barrier connector for the 70V/100V inputs, and a screw-type barrier strip for direct 4-8Ω input. Wire jumpers for transformer settings shall be provided. The input panel shall be preconfigured for 70V/100V, 200W mono operation. A removable rear connections cover shall shield all input and jumper connections.

The Acoustimass module shall have dimensions (W x H x D) of 22.1 x 35.6 x 34.5 cm (w/bracket) and shall weigh 7.9 kg with attached mounting bracket. Each satellite speaker shall measure 7.9 x 7.9 x 8.1 cm and shall weigh 0.8 kg.

WARRANTY INFORMATION

The loudspeaker module enclosure shall be composed of treated particle board with a scratch resistant finish in black or white. The satellite speakers shall have cloth grilles and black or white polymer finish.

The loudspeaker shall be the Bose® FreeSpace® 3 loudspeaker system.

The Bose FreeSpace 3 loudspeaker system is covered by a 5-year, transferable limited warranty.

