PROFESSIONAL

FreeSpace 3

subwoofer/satellite systems

Product Overview

The Bose Professional FreeSpace 3 subwoofer/satellite systems are high-performance, extended-range loudspeaker systems designed for small to medium-sized installed applications requiring high fidelity and extended bandwidth reproduction of voice and music. Surface and flush components can be mixed and matched to provide greater flexibility to suit a wide range of applications. FreeSpace 3 systems feature a wide coverage pattern and frequency response down to 40 Hz.

Key Features

Subwoofer/satellite systems that deliver high fidelity and extended bandwidth reproduction of voice and music for a wide range of installed applications, including retail, restaurant and hospitality operations

Modular design supports the flexibility for use of 2 or 4 satellites per Acoustimass bass module, and parallel connection of bass modules

Mix and match surface-mount and flush-mount components to work with different room decors and layouts for a variety of applications

Flush-mount components are plenum-rated when used with the optional plenum cover

Selectable 70/100V or low impedance with transformer tap adjustment on Acoustimass bass module

Can be configured for stereo or mono operation



Applications

Retail stores
Restaurants and bars
Lobbies and conference rooms
Hospitality venues

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Technical Specifications

SYSTEM PERFORMANCE							
	System		Satellite		Subwoofer		
Frequency Response (±3 dB) ¹	50 Hz – 16 kHz		210 Hz – 16 kHz		50 Hz – 230 Hz		
Frequency Range (–10 dB) ¹	40 Hz – 20 kHz		170 Hz – 20 kHz		40 Hz – 315 Hz		
Nominal Dispersion	See components		170° conical		Omnidirectional below 200 Hz		
Recommended High-Pass Filter	40 Hz high-pass filter		N/A		40 Hz high-pass filter		
Loudspeaker EQ	Recommended		Recommended		Recommended		
Overload Protection	PTC		N/A		PTC		
Long-term Power Handling ²	70/100V: 200 W (800 W peak) Low impedance: 100 W (400 W peak)		12 W (48 W peak)		70/100V, mono: 200 W (800 W peak) Low impedance, stereo: 50 W (200 W peak) per channel Low impedance, mono: 100 W (400 W peak)		
Sensitivity (SPL/1W@1m) ³	82 dB-SPL		84 dB-SPL		Stereo, per channel: 76 dB-SPL Mono: 79 dB-SPL		
Maximum SPL @1 m⁴	93 dB (99 dB-SPL peak in a 45,000 ft ³ room with RT60 of 1 s, ±3 dB)		Pink noise: 95 dB-SPL (101 dB-SPL peak) IEC noise: 92 dB-SPL (108 dB-SPL peak)		Stereo, per channel: 96 dB-SPL (102 dB-SPL peak) Mono: 102 dB-SPL (108 dB-SPL peak)		
Nominal Impedance	4-satellite system: 6Ω per channel 2-satellite system: 5Ω per channel (surface-mount); 6Ω per channel (flush-mount)		6Ω		Surface-mount: 5Ω mono direct Flush-mount: 6Ω mono direct (transformer bypassed)		
Transformer Taps (70/100 V)	25 W, 50 W, 100 W, 200 W N		N/A 25 W		25 W, 50 W, 1	5 W, 50 W, 100 W, 200 W	
TRANSDUCERS							
	Satellite			Subwoofer		oofer	
Driver Complement	2.5 in (64 mm) full-range driver per		r satellite	5.25 in (133 mm) dual voice coil low-frequency d		coil low-frequency driver	
PHYSICAL							
	Satellite			Subwoofer			
	Surface-mount	Flush-mo	-mount Surface-mou		Int Flush-mount		
Enclosure	High-impact polystyrene, textured	PC/ABS		High-density wood composite with solid color PVC laminate		PC/ABS	
Grille	Cloth	Expanded		l metal N/A		Expanded metal	
Environmental	Indoor use only	Indoor us	e only	Indoor use only		Indoor use only	

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Technical Specifications (continued)

PHYSICAL (contin	ued)				
	Sate	ellite	Subwoofer		
	Surface-mount	Flush-mount	Surface-mount	Flush-mount	
Connectors	2-position screw-type barrier	2-position terminal block	Screw terminal	Multi-position screw-type barriers	
Suspension/ Mounting	Wall-mount brackets, included Bracket angles: ±30° pitch, ±90° yaw	Integral quick-install mounting features Tab for seismic chain or safety cable	Wall-mount bracket, included (attached to module)	Integral quick-install mounting features 3 points at rear of housing for pendant mounting	
Maximum Ceiling Thickness	N/A	38 mm (1.5 in)	N/A	48 mm (1.8 in)	
Dimensions	Height × width: 77 × 77 mm (3.0 × 3.0 in) Depth with bracket: 149 mm (5.9 in) Depth without bracket: 102 mm (4.0 in)	Ø, outer flange: 157 mm (6.2 in) Depth: 123 mm (4.8 in) Ø, ceiling hole: 127 mm (5.0 in)	Height × depth: 356 × 345 mm (14.0 × 13.6 in) Width with bracket: 222 mm (8.8 in) Width without bracket: 191 mm (7.5 in)	Ø, outer flange: 391 mm (15.4 in) Depth: 189 mm (7.4 in) Ø, ceiling hole: 362 mm (14.3 in)	
Net Weight	0.8 kg (1.8 lb)	0.9 kg (1.9 lb)	7.9 kg (17.5 lb)	6.4 kg (14.0 lb)	
Shipping Weight	1.8 kg (4.0 lb)	2.3 kg (5.0 lb)	11.3 kg (25.0 lb)	9.1 kg (20.0 lb)	
PRODUCT CODE	S				
	Satellite		Subwoofer		
	Surface-mount (pair)	Flush-mount (pair)	Surface-mount	Flush-mount	
Black	040144	843091-0110	040146	843090-0110	
White	040143	843091-0210	040145	843090-0210	

Footnotes

- 1. Frequency response and range measured on-axis with recommended active EQ in an anechoic environment.
- 2. Power handling tested using pink noise filtered to meet IEC 268-5, 6-dB crest factor, 100 hours, with recommended EQ.
- $3. \quad \text{Sensitivity measured in free field (no boundary-loading gain) with recommended active EQ, referenced to 1 W / 1 m.}\\$
- 4. Maximum SPL calculated from sensitivity and power handling specifications, exclusive of power compression.

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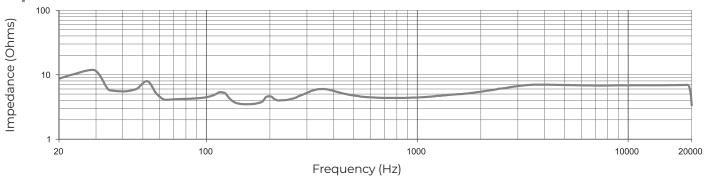
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TECHNICAL DATA

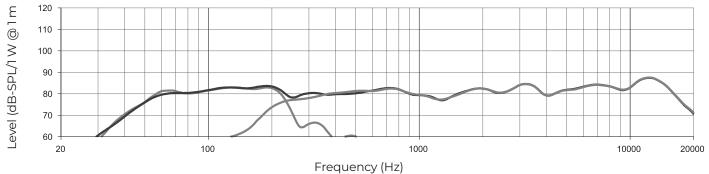
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Impedance



On-axis Response



Tap Chart

Mounting height

		2.4 m (8.0 ft)	3.0 m (10.0 ft)	3.6 m (12.0 ft)	4.2 m (14.0 ft)	4.8 m (16.0 ft)
Tap setting	25W	87 dB-SPL	86 dB-SPL	86 dB-SPL	85 dB-SPL	84 dB-SPL
	50W	90 dB-SPL	89 dB-SPL	89 dB-SPL	88 dB-SPL	87 dB-SPL
	100W	93 dB-SPL	92 dB-SPL	92 dB-SPL	91 dB-SPL	90 dB-SPL
	200W	96 dB-SPL	95 dB-SPL	95 dB-SPL	94 dB-SPL	93 dB-SPL

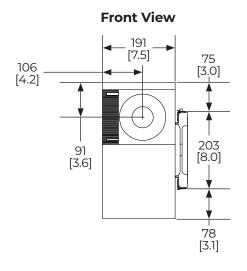
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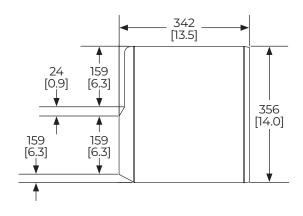
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Dimensions⁵

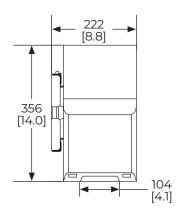
Surface-mount Subwoofer



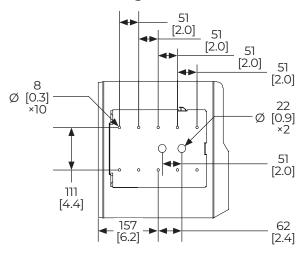
Left View



Rear View

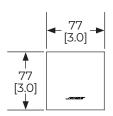


Right View

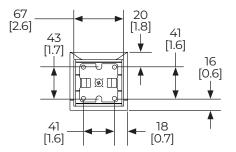


Surface-mount Satellite

Front View

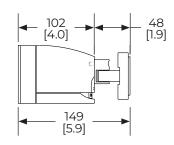


Rear View



Right View

DIMENSIONS APPLY TO BOTH SIDES



5. Dimensions are shown in millimeters over inches.

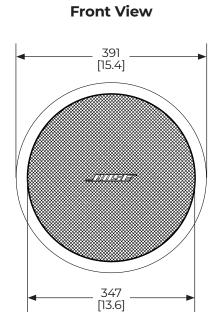
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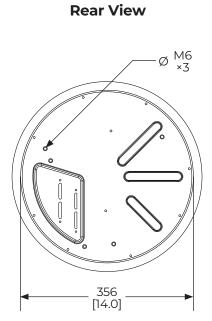
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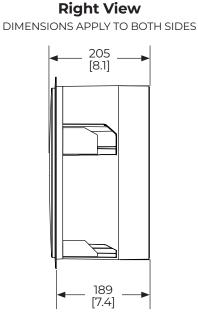
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Dimensions (continued)

Flush-mount Subwoofer





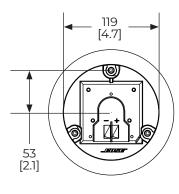


Flush-mount Satellite

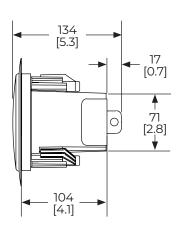
Front View







Bottom View



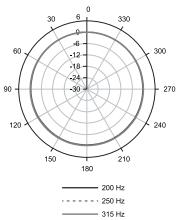
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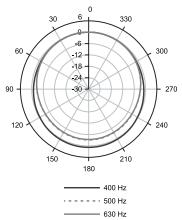
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Horizontal Plots, Surface-mount Satellite

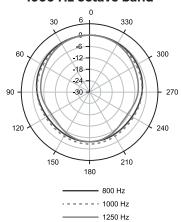




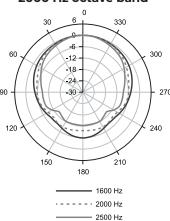
500 Hz octave band



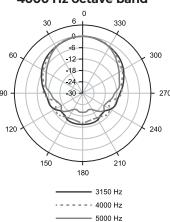
1000 Hz octave band



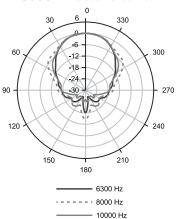
2000 Hz octave band



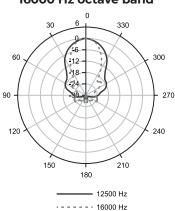
4000 Hz octave band



8000 Hz octave band



16000 Hz octave band



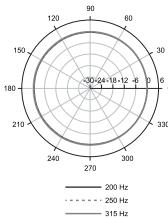
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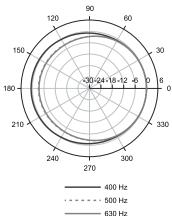
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Vertical Plots, Surface-mount Satellite

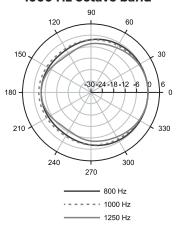




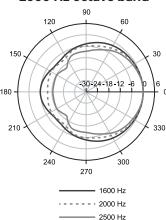
500 Hz octave band



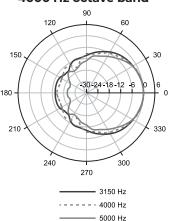
1000 Hz octave band



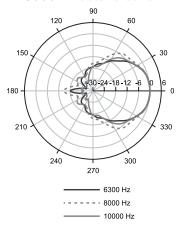
2000 Hz octave band



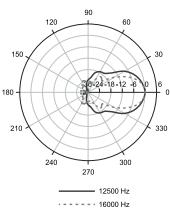
4000 Hz octave band



8000 Hz octave band



16000 Hz octave band



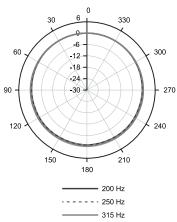
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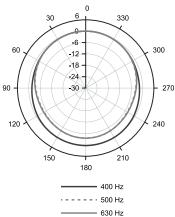
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Horizontal Plots, Flush-mount Satellite

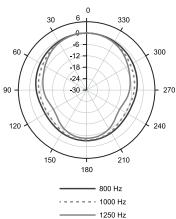
250 Hz octave band



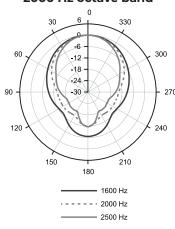
500 Hz octave band



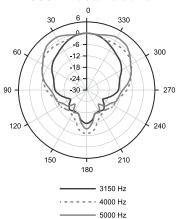
1000 Hz octave band



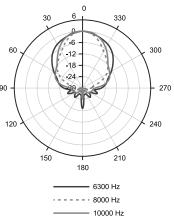
2000 Hz octave band



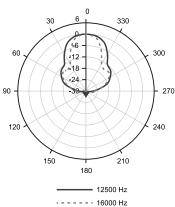
4000 Hz octave band



8000 Hz octave band



16000 Hz octave band



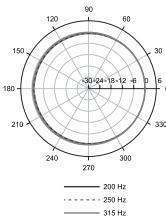
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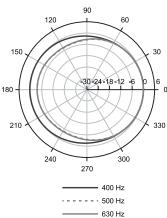
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Vertical Plots, Flush-mount Satellite

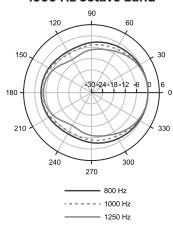




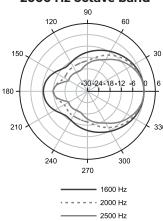
500 Hz octave band



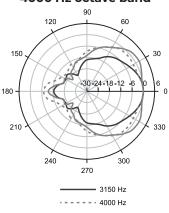
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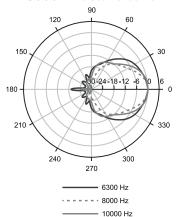
2000 Hz octave band



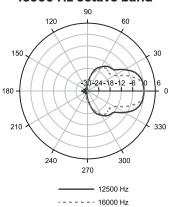
4000 Hz octave band



8000 Hz octave band



16000 Hz octave band



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Architects' & Engineers' Specifications

The loudspeaker system shall be a 200 watt ported loudspeaker system that includes one Acoustimass bass module and two or four satellite loudspeakers. It shall be capable of producing 93 dB-SPL average in a 45,000 ft³ room with an RT60 of 1 second in a range of 50 Hz to 16 kHz (±3 dB).

The module shall have one 5.25 in (133 mm) dual voice coil low-frequency driver. The module shall have an input impedance of 6 ohms (5 ohms for surface-mount module) for direct connection to unequalized low-impedance amplifier sources. The system shall be configured for use with either a 70/100V input or a low-impedance input. The transformer shall offer multiple taps of 25 W, 50 W, 100 W, and 200 W.

Each satellite loudspeaker shall have one 2.5 in (64 mm) full-range driver. The nominal average dispersion shall be 170° at –6 dB.

The input connectors shall consist of multi-position screw-type barriers on the flush-mount Acoustimass bass module, a spring-type barrier connector for the 70/100V inputs and a screw-type barrier strip for direct 4–8 ohm input on the surface-mount Acoustimass bass module, a two-position guillotine connector on the flush-mount satellite, and a two-position screw-type barrier on the surface-mount satellite. Wire jumpers for transformer settings shall be provided. Removable covers shall shield all bass module input and jumper connections.

The flush-mount bass Acoustimass module shall have dimensions of 15.4 in (391 mm) outer flange diameter; 14.25 in (361 mm) ceiling hole diameter; and 7.5 in (190 mm) height to top of housing. It shall weigh 14.0 lb (6.36 kg). The surface-mount Acoustimass bass module shall have dimensions of 14.0 in height × 8.7 in width (with bracket) × 13.6 in depth (356 mm × 221 mm × 345 mm) and shall weigh 17.5 lb (7.9 kg) with attached mounting bracket. Each flush-mount satellite loudspeaker shall measure 6.2 in (157 mm) outer flange diameter; 5.0 in (127 mm) ceiling hole diameter; and 5.0 in (127 mm) to top of housing. It shall weigh 1.9 lb (0.9 kg). Each surface-mount satellite loudspeaker shall measure 3.0 in height × 3.0 in width × 4.0 in depth (77 mm × 77 mm × 102 mm) and shall weigh 1.75 lb (0.8 kg).

The flush-mount Acoustimass bass module and flush-mount satellite enclosures shall be composed of PC/ABS with an expanded metal grille and shall meet plenum ratings when used with a plenum cover. The surface-mount Acoustimass bass module enclosure shall be composed of high-density wood composite with solid-color PVC laminate, black or white. The surface-mount satellite shall have a cloth grille and black or white polymer finish.

The loudspeaker shall be the FreeSpace 3 loudspeaker system.

Safety & Regulatory Compliance

The FreeSpace 3 system loudspeakers have passed extensive testing and comply with the following specifications and uses:

UL1480 listed:

General-Purpose Use, UL Category UEAY, File Number S 5591

Air-handling spaces (ceiling plenums), FS3 flush-mount module and flush-mount satellite:

UL-2043 when used with the PCFS3F and PC-FS3B Plenum Cover accessories

NFPA-70 National Electric Code 2002, Article 300-22(c)

NFPA-90-A-1996 Installation of Air Conditioning and Ventilation Systems, Section 2-3.10.1(a), Exception 3

EMC Directive 89/336/EEC and Article 10 (1) of the directive, EN50081-1, and EN50082-1, as signified by the CE mark.

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