

FreeSpace® DS Loudspeaker Family

The Bose® FreeSpace® DS loudspeakers are a family of high-quality loudspeakers engineered to provide three distinct levels of audio performance for a wide range of background and foreground music applications. These versatile surface-mount and flush-mount loudspeakers easily integrate into sound systems – indoors and outside – with flexible mounting hardware and optional installation accessories. Complete entire projects with a single family of Bose loudspeakers that deliver consistent high-fidelity sound, installation methods and contemporary styling.



FreeSpace DS 16S/DS 16SE and DS 16F

These 16-watt loudspeakers deliver background music with notable presence and detail as well as clear, natural-sounding speech reproduction. They are well-suited for retail stores, restaurants, hospitality venues, public spaces, offices, meeting rooms, hallways, entrance ways, lobbies and restrooms.

FreeSpace DS 40SE and DS 40F

These 40-watt loudspeakers deliver background and foreground music with fullness, notable presence and detail, as well as clear, natural-sounding speech reproduction. They are well-suited for retail stores, restaurants, patios/outdoor dining, bars/nightclubs, houses of worship, hospitality venues, public spaces, offices, meeting rooms, hallways, entrance ways, lobbies and concourses.

FreeSpace DS 100SE and DS 100F

These 100-watt loudspeakers deliver foreground music with full bass, notable presence and detail as well as clear, natural-sounding speech reproduction. They are well-suited for bars/nightclubs, restaurants, patios/outdoor dining, retail stores, houses of worship, hospitality venues, public spaces, entrance ways, lobbies and concourses.

	DS 16S/DS 16SE	DS 16F	DS 40SE	DS 40F	DS 100SE	DS 100F
PRODUCT FEATURES						
Applications	Background Music, Paging	Background Music, Paging	Background and Foreground Music, Paging	Background and Foreground Music, Paging	Foreground Music, Paging	Foreground Music, Paging
Indoor	•	•	•	•	•	•
Outdoor Weather-Rated	DS 16SE only; Direct exposure, IP 55 per IEC 60529 Edition 2.1 2001-02	N/A	Direct exposure, IP 55 per IEC 60529 Edition 2.1 2001-02	N/A	Direct exposure, IP 55 per IEC 60529 Edition 2.1 2001-02	N/A
Flush-Mount		•		•		•
Surface-Mount	•		•		•	
Pendant-Mount		•		•		•
Pole-Mount	•		•		•	
SYSTEM PERFORMANCE						
Frequency Response (-3 dB)	90 Hz - 16 kHz	90 Hz - 16 kHz	80 Hz - 16 kHz	80 Hz - 16 kHz	65 Hz - 16 kHz	65 Hz - 16 kHz
Sensitivity (1W @ 1m)	84 dB-SPL	84 dB-SPL	87 dB-SPL	87 dB-SPL	85 dB-SPL	85 dB-SPL
Power Handling (continuous)	16W	16W	40W	40W	100W	100W
Maximum SPL (pink noise @ 1m @ rated power)	96 dB-SPL (102 dB-SPL peak)	96 dB-SPL (102 dB-SPL peak)	103 dB-SPL (109 dB-SPL peak)	103 dB-SPL (109 dB-SPL peak)	105 dB-SPL (111 dB-SPL peak)	105 dB-SPL (111 dB-SPL peak)
Beamwidth (-6 dB point, average 1-4 kHz)	170°H x 160°V	140° conical	125°H x 125°V	125° conical	180°H x 75°V	160° conical
Operation Modes	8Ω, 70V, 100V	8Ω, 70V, 100V	8Ω, 70V, 100V	8Ω, 70V, 100V	8Ω, 70V, 100V	8Ω, 70V, 100V
Tap Settings (70/100V)	2, 4, 8, 16W (+1W @ 70V)	2, 4, 8, 16W (+1W @ 70V)	5, 10, 20, 40W (+2.5W @ 70V)	5, 10, 20, 40W (+2.5W @ 70V)	25, 50, 100W (+12.5W @ 70V)	25, 50, 100W (+12.5W @ 70V)
Equalization	Recommended loudspeaker EQ available, or use with 80 Hz high-pass filter.	Recommended loudspeaker EQ available, or use with 80 Hz high-pass filter.	Recommended loudspeaker EQ available, or use with 70 Hz high-pass filter.	Recommended loudspeaker EQ available, or use with 70 Hz high-pass filter.	Recommended loudspeaker EQ available, or use with 55 Hz high-pass filter.	Recommended loudspeaker EQ available, or use with 55 Hz high-pass filter.
TRANSDUCERS						
Driver Complement	One 2.25" (57mm) full-range driver	One 2.25" (57mm) full-range driver	One 4.5" (114mm) full-range driver	One 4.5" (114mm) full-range driver	Two 2.25" (57mm) Twiddler® drivers in an Articulated Array® loudspeaker design, one 5.25" (133mm) woofer	One 2.25" (57mm) Twiddler® driver, one 5.25" (133mm) woofer
PHYSICAL						
Enclosure Material	PC/ABS (white), Polypropylene (black)	PC/ABS	PC/ABS	Polypropylene (front baffle), Powder-coated steel (rear enclosure)	PC/ABS	Polypropylene (front baffle), Powder-coated steel (rear enclosure)
Grille Material	Powder-coated steel	Powder-coated steel	Powder-coated steel	Powder-coated steel	Powder-coated steel	Powder-coated steel
Color	Black or White, Paintable	Black or White, Paintable	Black or White, Paintable	Black or White, Paintable	Black or White, Paintable	Black or White, Paintable
Connectors	The included mounting bracket features a three-terminal barrier strip. Optional accessories available for use when ceramic connector and thermal fuse are required.	Three-terminal barrier strip. Optional accessory available for use when ceramic connector and thermal fuse are required.	The included mounting bracket features a three-terminal barrier strip. Optional accessories available for use when ceramic connector and thermal fuse are required.	Three-terminal barrier strip; two-terminal barrier strip (8 Ohm variant). Optional accessory available for use when ceramic connector and thermal fuse are required.	The included mounting bracket features a three-terminal barrier strip. Optional accessories available for use when ceramic connector and thermal fuse are required.	Three-terminal barrier strip. Optional accessory available for use when ceramic connector and thermal fuse are required.
Suspension Attachment	Hole on rear of enclosure sized for #8 or M4 self-tapping screw for use with safety cable.	0.35" (8.9mm) diameter hole on junction box cover for use with safety cable. Three mounting points on rear of enclosure for use with optional accessory pendant-mount kit.	Insert on rear of enclosure sized for M4 x 14mm screw for use with safety cable.	0.35" (8.9mm) diameter hole on junction box cover for use with safety cable. Three mounting points on rear of enclosure for use with optional accessory pendant-mount kit.	Insert on rear of enclosure sized for M4 x 14mm screw for use with safety cable.	0.35" (8.9mm) diameter hole on junction box cover for use with safety cable. Three mounting points on rear of enclosure for use with optional accessory pendant-mount kit.
Dimensions – Loudspeaker Only	4.6"D x 9.9"W x 4.9"H (117mm x 250mm x 124mm)	Outer flange diameter: 9.4" (239mm) Ceiling hole diameter: 8" (203mm) Height to top of housing: 6.2" (158mm)	6.9"D x 12.8"W x 6.3"H (175mm x 326mm x 159mm)	Outer flange diameter: 11.8" (299mm) Ceiling hole diameter: 10.5" (267mm) Height to top of housing: 5.7" (146mm)	8.5"D x 15"W x 7"H (216mm x 381mm x 178mm)	Outer flange diameter: 11.8" (299mm) Ceiling hole diameter: 10.5" (267mm) Height to top of housing: 7.6" (193mm)
Dimensions – Loudspeaker with Wall-Mount Bracket* (D x W x H)	6.4"D x 9.9"W x 4.9"H (161mm x 250mm x 124mm)	N/A	9.4"D x 12.8"W x 6.3"H (238mm x 326mm x 159mm)	N/A	11"D x 15"W x 7"H (280mm x 381mm x 178mm)	N/A
Loudspeaker Weight	4.0lb (1.8kg)	4.4lb (1.9kg)	8.5lb (3.9kg)	8.3lb (3.7kg) 6.3lb (2.8kg) – 8 Ohm variant	14lb (6.4kg)	13lb (5.9kg)
Shipping Weight	5.1lb (2.3kg)	6lb (2.7kg)	10.8lb (4.9kg)	11lb (5kg) 9lb (4.1kg) – 8 Ohm variant	16.9lb (7.7kg)	16lb (7.3kg)

*Bracket angle set at 0°

