

FreeSpace® DS 100SE loudspeaker



Key Features

- **Extended-range**, high-performance loudspeaker with two (2) 2.25" (57 mm) Twiddler® drivers and a single 5.25" (133 mm) woofer in a ported enclosure designed for surface-mounted foreground and background music and paging applications
- **Proprietary Articulated Array®** speaker configuration provides 180° H x 75° V coverage out of the box when the loudspeaker is mounted horizontally. Array can be rotated for horizontal or vertical use
- **Simple 1->2->3** installation system. Mounting hardware allows for horizontal and vertical orientation with adjustable pitch or yaw
- **Integrated multi-tap transformer** with innovative thumb wheel adjustment for easy-to-change tap settings from under front end cap
- **Shared voicing** across entire FreeSpace DS product family enables DS 16, DS 40 and DS 100 loudspeakers to be integrated on the same system and maintain consistent tonal quality
- **Supported** by a suite of accessories, including wall-mount bracket, ceiling-mount bracket, pole-mount bracket and junction boxes



TECHNICAL DATA SHEET

Product Overview

The Bose® FreeSpace DS 100SE is the premier member of the DS loudspeaker family. It is a high-performance, full-range surface-mount loudspeaker designed for foreground music and speech reproduction in a wide range of installed applications. The DS 100SE features a rotatable array that delivers a 180° x 75° coverage pattern and a frequency range down to 60 Hz.

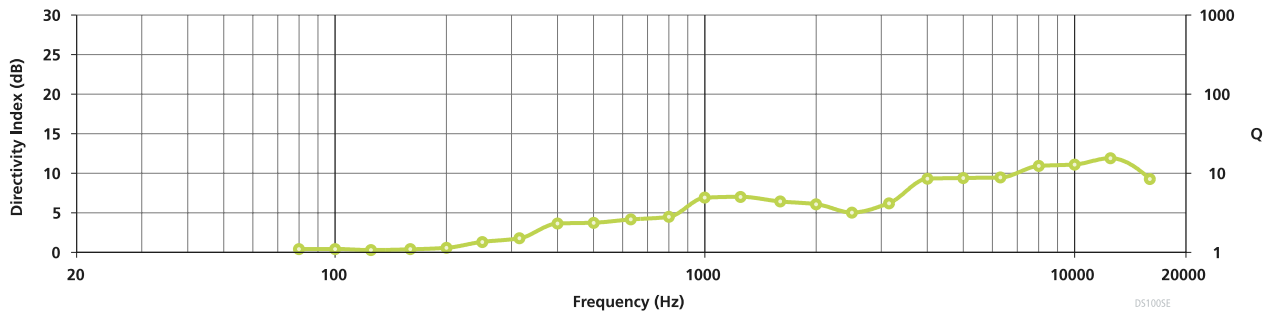
Technical Specifications

| System Performance | |
|--|---|
| Frequency Response (+/-3 dB) ¹ | 75 Hz - 18 kHz |
| Frequency Range (-10 dB) ¹ | 60 Hz - 20 kHz |
| Nominal Dispersion | 180° H x 75° V |
| Recommended High-Pass Filter | 55 Hz high-pass filter |
| Loudspeaker EQ | Recommended |
| Overload Protection | Lamp |
| Long-Term Power Handling ² | 100 W (400 W peak) |
| Sensitivity (SPL / 1 W @ 1 m) ³ | 85 dB SPL |
| Maximum SPL @ 1 m ⁴ | 105 dB SPL (111 dB SPL peak) |
| Nominal Impedance | 8 Ω (transformer bypassed) |
| Transformer Taps (70/100 V) | 70 V: 12.5 W, 25 W, 50 W, 100 W 100 V: 25 W, 50 W, 100 W |
| Transducers | |
| Driver Compliment | Two (2) 2.25" (57 mm) Twiddler® drivers in an Articulated Array® speaker configuration 5.25" (133 mm) woofer |
| Physical | |
| Enclosure | PC/ABS, textured |
| Grille | Powder-coated steel grille |
| Environmental | Outdoor per IEC 529 IP55 |
| Connectors | Three-terminal barrier strip integrated on included mounting bracket. Optional accessories available for use when ceramic connector and thermal fuse are required. Wire gauge: 18 AWG (0.8 mm) to 14 AWG (2.0 mm) |
| Suspension / Mounting | Included bracket allows for horizontal or vertical mounting positions, each with either pitch or yaw adjustment. Insert on rear of enclosure sized for M4 x 14 mm screw for use with safety chain |
| Dimensions | 7.0" H x 15.0" W x 8.5" D (178 mm x 381 mm x 216 mm) Depth with wall mount bracket: 11.0" (280 mm) |
| Net Weight | 14.0 lb (6.4 kg) |
| Shipping Weight | 16.9 lb (7.7 kg) |
| Product Code | |
| Black | 040806 |
| White | 040807 |

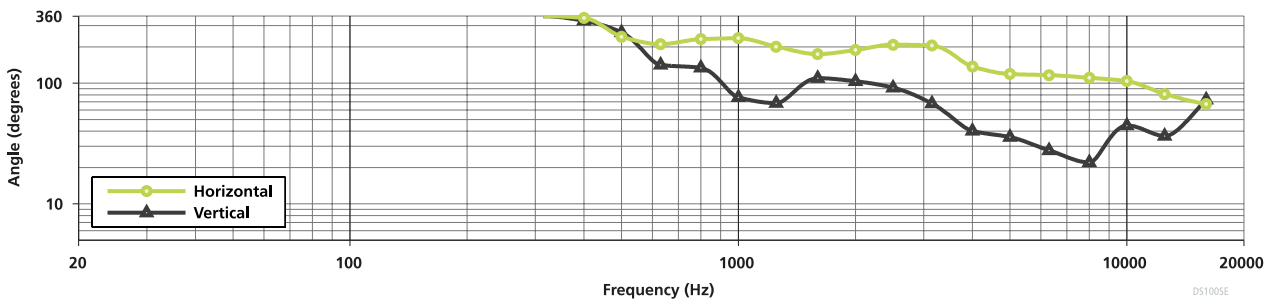
Footnotes:

- 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 Sensitivity measured in free field (no boundary-loading gain) with recommended active EQ, referenced to 1W/1m.
- ⁴ Maximum SPL calculated from sensitivity and power handling specifications, exclusive of power compression.

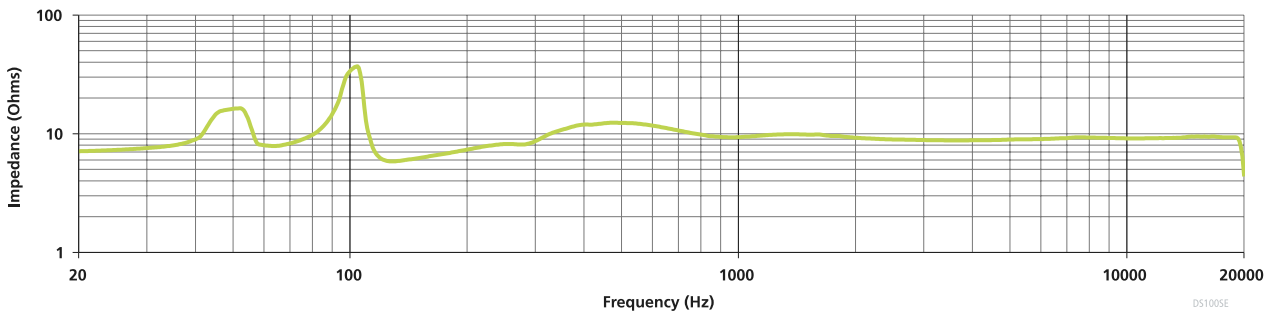
Directivity Index and Q



Beamwidth



Impedance



On-Axis Response

