

# DesignMax DM5SE

## surface-mounted loudspeaker

### Product Overview

DesignMax loudspeakers bring outstanding audio and aesthetics to any commercial space. The 50-watt DesignMax DM5SE loudspeakers each feature a two-way 5.25-inch woofer and 1-inch tweeter coaxially mounted within the Dispersion Alignment system, producing a frequency range of 65 Hz - 20 kHz. The DM5SE is surface-mounted, IP55 outdoor-rated, and locks onto a hidden QuickHold U-Bracket for fast, secure installation. And with both black and white versions available, DesignMax loudspeakers integrate seamlessly with any décor.



### Key Features

**Deliver instantly impressive sound** with custom Bose drivers — no DSP or EQ required. For even better sound, use select Bose DSPs and amplifiers to enable Bose loudspeaker EQ and SmartBass processing, which expands performance and response at any listening level

**Ensure a consistent listening experience** throughout the room with the Dispersion Alignment system, which matches the coverage of the woofer to the pattern of the tweeter

**Blend into any room design** with elegant form factors, minimum-bezel grilles available in black or white, and removable logos

**Reduce installation time** with the patented QuickHold mounting system, which also reduces strain, hassle, and the chance of product damage

**Install easily** — includes Euroblock connector

**Install DM5SE outside** — IP55 rating with standard aluminum grille and weather resistant input cover for outdoor use

### Technical Specifications

SINGLE LOUDSPEAKER PERFORMANCE		
Frequency Response (-3 dB) <sup>1</sup>	73 - 17,000 Hz	
Frequency Range (-10 dB) <sup>1</sup>	65 - 20,000 Hz	
Nominal Coverage (H × V) <sup>2</sup>	135° × 135°	
Nominal Coverage Angle (1 - 10 kHz)	130° × 130°	
	Bose extended-lifecycle test <sup>(5)</sup>	AES component test <sup>(6)</sup>
Power Handling, long-term continuous	50 W	60 W
Power Handling, peak	200 W	240 W
Sensitivity (SPL/ 1W @ 1 m) <sup>3</sup>	87 dB	87 dB
Calculated Maximum SPL @ 1 m <sup>4</sup>	104 dB	105 dB
Calculated Maximum SPL @ 1 m, peak	110 dB	111 dB
Crossover	1.8 kHz (passive 2-way crossover)	
Loudspeaker EQ	Not Required, Bose EQ voicing and SmartBass Processing available	
Recommended High-Pass Protection	65 Hz with recommended 24 dB / octave filter	
Overload protection	Resistor-network power reduction with automatic reset	
Transformer taps	70V: 3, 6, 12, 25, 50 W, bypass 100V: 6, 12, 25, 50 W, bypass	
TRANSDUCERS		
Low Frequency	1 x 133 mm woofer (5.25-inch), weather treated	
High Frequency	1 x 25 mm (1-inch) neodymium dome tweeter, coaxially mounted, weather-treated	
Technology	Dispersion Alignment System, 165 mm (6.5 in) system diameter	
Nominal Impedance	8 ohms (transformer bypass)	

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<b>PHYSICAL</b>	
Enclosure Material	Engineered plastics, highly UV fade resistant
Bracket Material	Powder-coated steel
Grille	Perforated aluminum with a powder coat finish, tamper-resistant design, paintable
Logo	Rotatable, removable
Color	Black: RAL 9005, White: Bose Arctic White, similar to RAL 9003, Paintable
Environmental / Ingress-Protection	Outdoor per IEC 529 IP55 (suitable for use outdoors in wet locations), includes aluminum grille to prevent red corrosion and weather resistant input cover
Safety Agency	UL14804, S5591/UL listed, NFPA701 in accordance with IEC 60268-5, ROH5, CE compliant
Operating Temperature Range	-25 to 70 °C (-13 to 158 °F)
Connectors	Euroblock 6-pin connector with loop-through, mounted on rear. Accepts 18 AWG (0.8 mm <sup>2</sup> ) to 14 AWG (2.5 mm <sup>2</sup> ) size wire
Suspension / Mounting	QuickHold Mounting System with included U-Bracket
	4 preset mounting angles: 0°, 15°, 30°, 45° for wall or ceiling placement
	Two (2) rear M8 screw inserts for use with optional pan & tilt bracket and one (1) rear M8 screw insert for safety-tether attachment
Dimensions (H × W × D)	286 × 192 × 197 mm (11.3 × 7.6 × 7.8 in)
Dimensions (H × W × D) with bracket	286 × 192 × 208 mm (11.3 × 7.6 × 8.2 in)
Net Weight, Loudspeaker with grille (single)	4.8 kg (10.5 lb)
Shipping Weight (pair)	11.4 kg (25.2 lb)
Included Accessories	U-Bracket, powder-coated steel
Optional Accessories	Pan & Tilt Bracket
<b>PRODUCT CODES</b>	
829705-0110	DESIGNMAX DM5SE PAIR BLK
829705-0210	DESIGNMAX DM5SE PAIR WHT

**Footnotes**

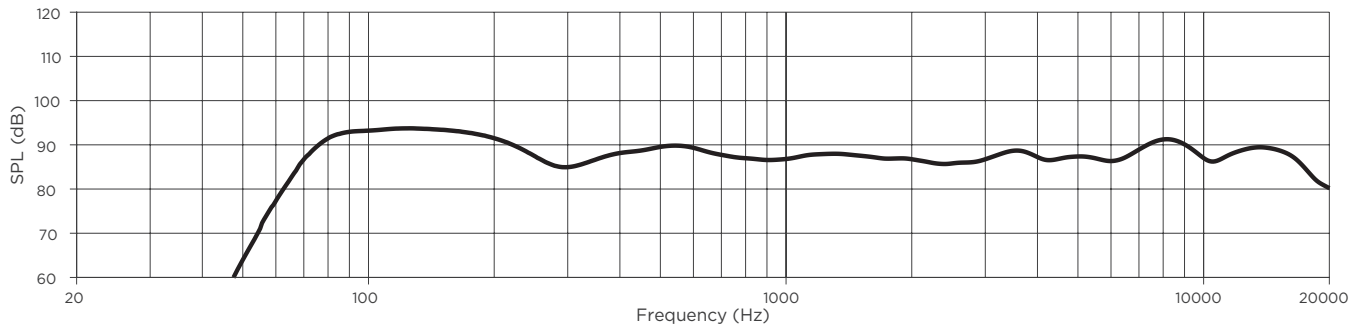
- (1) Frequency response and range measured on-axis in quarter-space (wall/ceiling boundary) environment with recommended EQ
- (2) 1kHz to 4kHz average
- (3) Sensitivity measured on-axis in quarter-space (wall/ceiling boundary) environment with recommended EQ
- (4) Maximum SPL calculated from sensitivity and power handling specifications, exclusive of power compression.
- (5) Bose extended-lifecycle test using pink noise filtered to meet IEC268-5, 6-dB crest factor, 500-hour duration.
- (6) AES standard 2-hour duration with IEC system noise

For additional specifications and application information, please visit [PRO.BOSE.COM](http://PRO.BOSE.COM). Specifications subject to change without notice. 10/2019

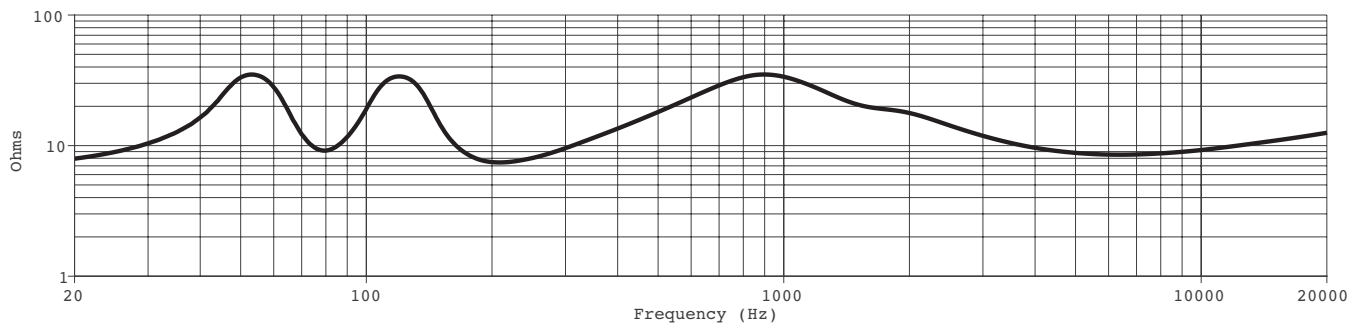
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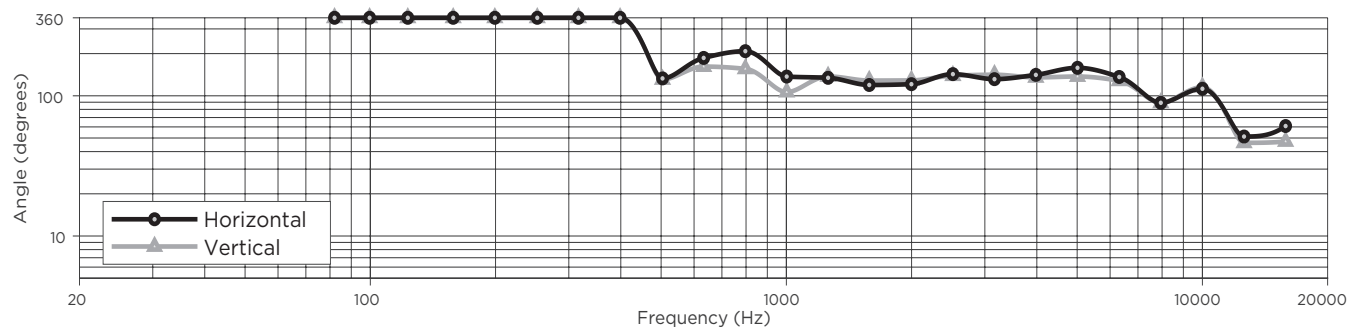
## On-Axis Frequency Response (half-space ( $2\pi$ ) with Bose EQ voicing)



## Impedance



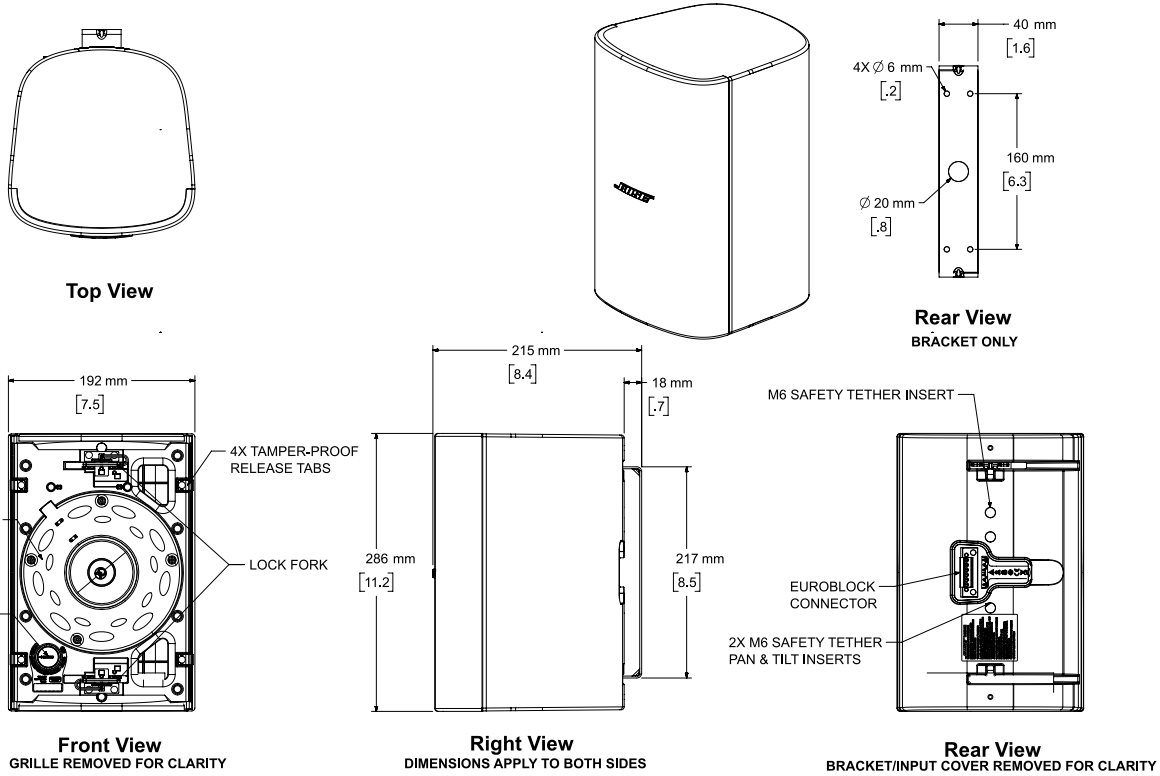
## Beamwidth



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### Dimensions



NOTES:  
 1. DIMENSIONS ARE IN MILLIMETERS OVER INCHES  
 2. WEIGHT 4,38kg [9.7lbs] (SPEAKER ONLY)  
 WEIGHT W/BRACKET 4,75kg [10.5lbs]