

Professional Series

Features:

- ▶ 1.5" D2 dual diaphragm dual voice-coil compression driver delivers smooth and extended high frequency with ultra-low distortion
- ▶ 15" LF driver combines a ribbon-wire voice coil, a custom-made paper cone and a FEA optimized magnetic circuit to reproduce a wider frequency range with a smoother frequency response and lower distortion
- ▶ JBL SonicGuard™ technology protects the HF driver from overload
- ▶ VGC™ (Vented Gap Cooling™) technology guarantees uncompromised low frequency performance despite long service hours
- ▶ 80° × 80° horn ensures a constant directivity and smooth on- and off-axis response
- ▶ Switchable Passive or Bi-Amp mode meets different application requirements
- ▶ Rotatable JBL ENTERTAINMENT logo for both horizontal and vertical installation

Applications:

- ▶ Sound reinforcement for bars, discos, clubs
- ▶ Live sound amplification for music restaurants and theatres
- ▶ Can be used with MG Series Line Array Speaker System

JBL MGS85 15" full-range speaker is specially tuned for entertainment venues like bars, clubs and live sound amplification for music restaurants and theatres and can be used with MG Series Line Array Speaker System.

MGS85 uses a 1.5" patented D2 dual diaphragm dual voice-coil compression driver to deliver smooth and extended high frequency with ultra-low distortion whether listening at very high or subtle levels. The 15" LF driver of MGS85 combines a ribbon-wire voice coil of high efficiency and light weight, a paper cone custom-made under the most stringent industry standard and a magnetic circuit optimized through FEA simulations, hence, is able to reproduce a wider range of frequency with a flatter frequency response curve and a lower distortion rate.

The newly-designed crossover network further enhances the acoustic performance of MGS85 and guarantees a seamless transition between the LF and HF drivers so as to bring a clear, articulate and high fidelity musical reproduction. The 80° × 80° horn ensures a constant directivity and smooth on- and off-axis response whether the speaker is installed vertically or horizontally. JBL SonicGuard™ and VGC™ (Vented Gap Cooling™) technologies are employed to protect the HF and LF drivers, leaving users out of worry of overload from long service hours.

MGS85 builds up its enclosure using the durable birch plywood and designs its size and bracing through meticulous calculation and simulation, in order to eliminate cabinet resonance and improve its low frequency response.

MGS85 can be switched to Passive or Bi-Amp mode to meet different tuning requirements or application scenarios. The NL4 Neutrik Speakon® connectors allow loop-thru connection of multiple speakers and system extension can be accomplished with minimum effort.

To bring utmost its usability, MGS85 is designed with an angled enclosure, multiple M10 suspension points, a 35 mm Omni pole socket and two integrated handles for best convenience in the stage of transportation and set-up.



Specifications:

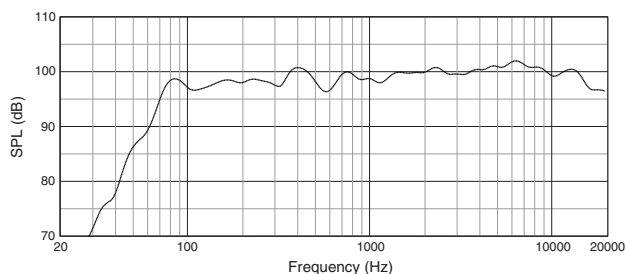
System:		
Frequency Range (-10 dB):	48 Hz - 20 kHz	
Frequency Response (±3 dB):	57 Hz - 19 kHz	
Coverage:	80° × 80°	
System Power Rating (IEC, 2 hrs) (continuous/music/peak)	550 W/1100 W/2200 W	
Maximum SPL (1m) ¹ :	127 dB continuous average (133 dB peak)	
System Sensitivity (4π):	100 dB	
Nominal Impedance:	8 ohms	
Transducer:		
LF Driver:	1 × 15" (381 mm) woofer with 4" (101.6 mm) voice coil	
HF Driver:	1 × JBL D2415K 1.5" (38.1 mm) dual voice coil, dual annular diaphragm	
Physical:		
Enclosure:	Trapezoidal with 20 degree side angles, 15 mm birch plywood, fitted with handles	
Suspension/Mounting:	19 × M10 threaded points (5@top, 4@bottom, 4@each side, 2@rear) 35 mm Omni pole-mounting socket	
Finish:	Black DuraFlex™ finish	
Grille:	Powder coated, 1.8 mm perforated steel with acoustically transparent black fibre cloth backing	
Input Connector:	NL4 Neutrik Speakon® in parallel for loop-thru	
Switch:	Selectable passive and bi-amp mode	
Dimensions (H × W × D):	700 mm × 436 mm × 549 mm 27.6 inch × 17.2 inch × 21.6 inch	
Net Weight:	30.7 kg (67.7 lbs)	

¹ Calculated maximum SPL based on rated power handling

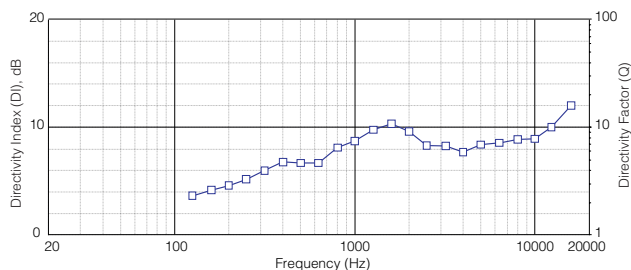
JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

► MGS85 15" Full-Range Speaker

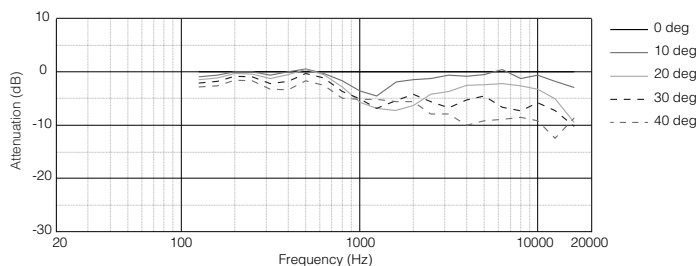
Frequency Response:



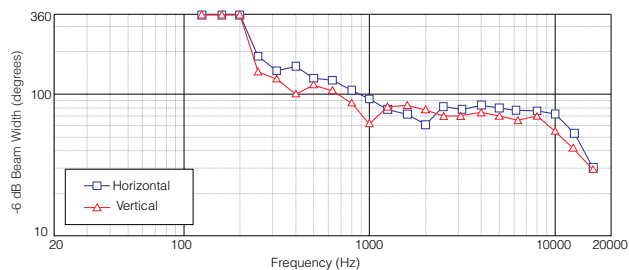
Directivity Index:



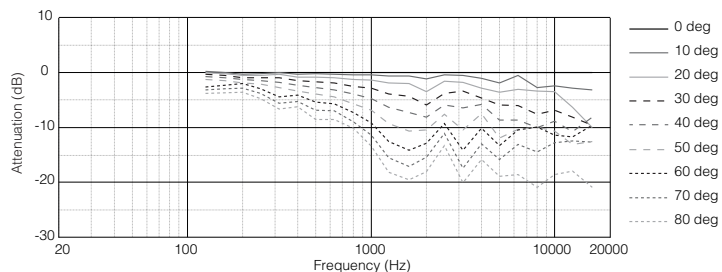
Vertical Down off-axis frequency response:



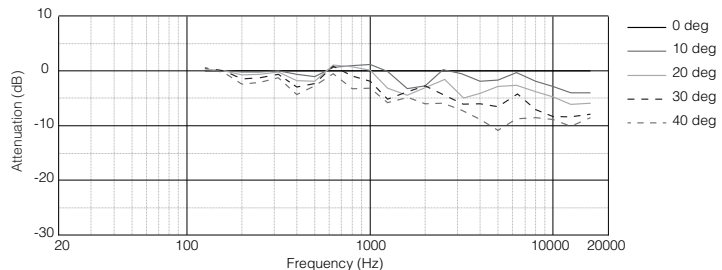
Beamwidth:



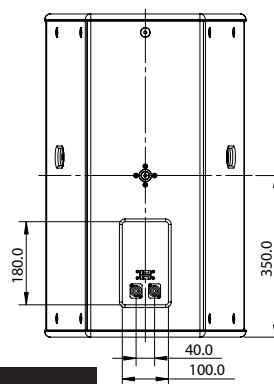
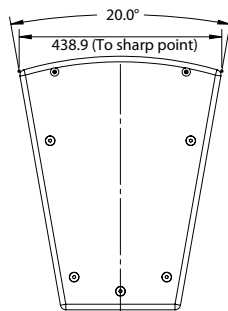
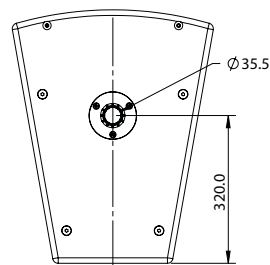
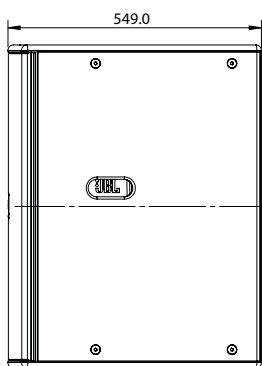
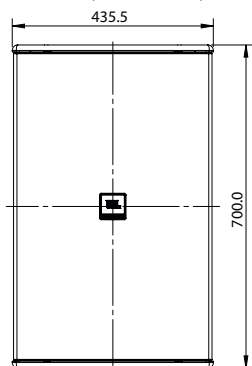
Horizontal off-axis frequency response:



Vertical Up off-axis frequency response:



Dimensions (in mm)



JBL Professional
8500 Balboa Boulevard, P.O. Box 2200
Northridge, California 91329 U.S.A.

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