

# JBL GC12

## 12" Full-Range Speaker



JBL GC12 12" 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 or GC Series Subwoofer speaker.

GC12 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 12" LF driver of GC12 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 GC12 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 SonicGugard™ 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.

### KEY MESSAGES ■

GC12 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.

GC12 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, GC12 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.

### HIGHLIGHTS ■

1.5" D2 dual diaphragm dual voice-coil compression driver delivers smooth and extended high frequency with ultra-low distortion

12" 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

### TECHNICAL SPECIFICATIONS ■

System:	
Frequency Range (-10 dB):	50 Hz - 20 kHz
Frequency Response (±3 dB):	60 Hz - 19 kHz
Coverage:	80° × 80°
System Power Rating: (continuous / music / peak)	500 W / 1000 W / 2000 W
Maximum SPL (1m) <sup>1</sup> :	126 dB continuous average (138 dB peak)
System Sensitivity (4π):	99 dB
Nominal Impedance:	8 ohms
Transducer:	
LF Driver:	1 × 12" (304.8 mm) woofer with 3" (76.2 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):	600 mm × 395 mm × 459 mm 23.6 inch × 15.6 inch × 18.1 inch
Net Weight:	24.6 kg (54.2 lbs)

#### Footnotes:

- 1: Measurement conducted under full-space (4π) conditions.
- 2: Peak, unweighted SPL, measured under full-space conditions at 1 meter using broadband pink noise with a 12dB crest factor.
- 3: Testing conducted for 2 hours under pink noise with a crest factor of 6 dB, in accordance with IEC standards.

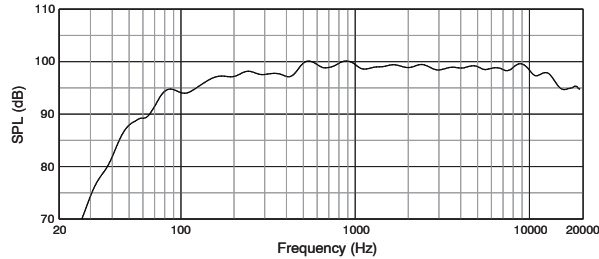
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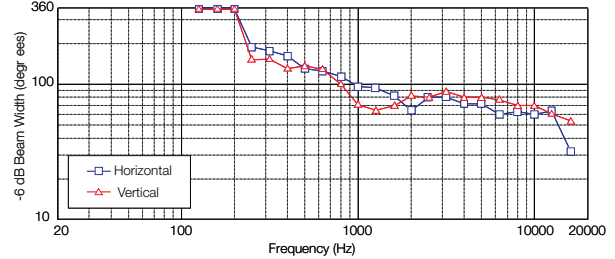
12" Full-Range Speaker



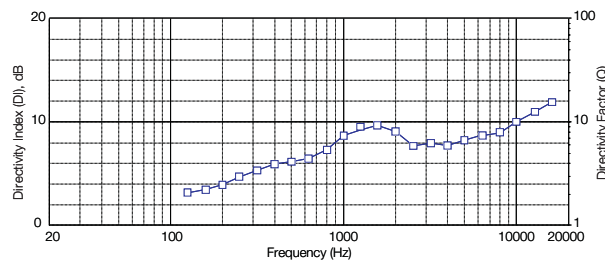
Frequency Response:



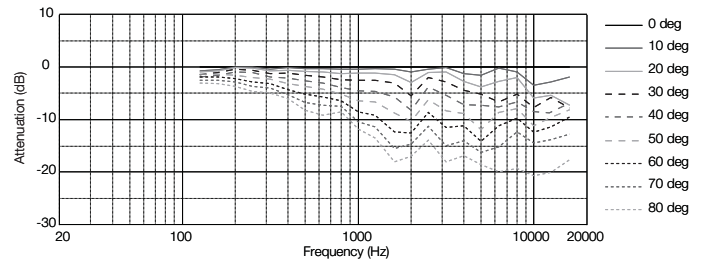
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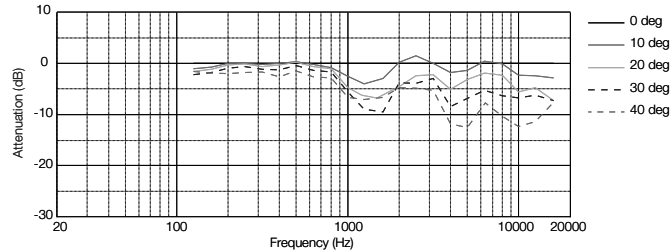
Directivity Index:



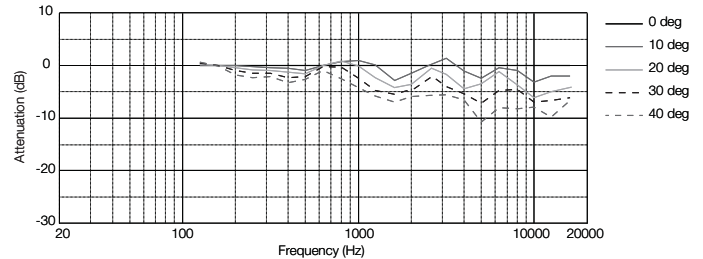
Horizontal off-axis frequency response:



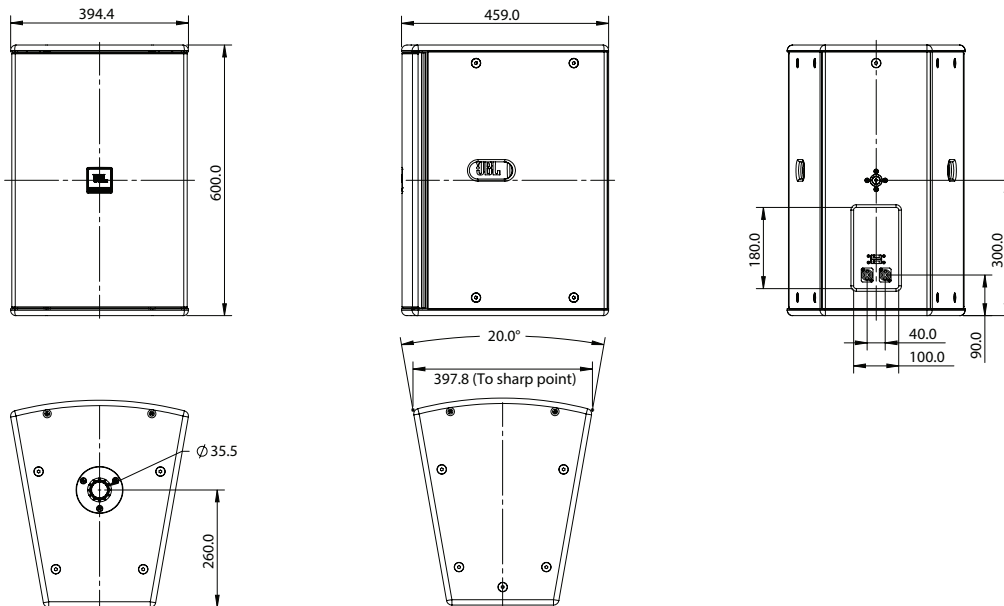
Vertical Down off-axis frequency response:



Vertical Up off-axis frequency response:



## Engineering drawings ■



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Features, specifications and appearance are subject to change without notice.

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