AM7212/00

High Power 2-Way Loudspeaker with 1 x 2" LF

Professional Series



Key Features:

- 100° x 100° Coverage
- 2262H Differential Drive® Low-Frequency Driver
- 2432H High-Frequency Compression Driver
- Large PT™ Progressive Transition waveguide for excellent pattern control and low distortion
- Rotatable waveguide for vertical or horizontal orientation
- Bi-Amp/Passive Switchable
- Available in Black, White and WRC/WRX finishes

Applications:

- Performing Arts Facilities
- Theatrical Sound Design
- Auditoriums
- Worship Facilities
- Live Clubs
- Dance Clubs
- Sports Facilities
- Themed Entertainment Venues

The AM7212/00 is a high power, lightweight, 2-way, full-range loudspeaker system comprised of the JBL Differential Drive dual voice coil and dual magnetic gap 2262H 300mm (12 in) low-frequency driver and 2432H high-frequency 38 mm (1.5 in) exit, 75 mm (3 in) voice-coil compression driver. The large format Progressive Transition waveguide provides excellent 100° x 100° coverage. The waveguide is rotatable so the loudspeaker system can be used in either the vertical or horizontal orientation. High-slope passive networks minimize band overlap. Well-controlled off-axis response enhances arrayability.

The enclosure is constructed of multi-ply birch coated in JBL's rugged DuraFlex™ finish and is heavily braced to maximize low-frequency performance. The trapezoid enclosure is fitted with fifteen M10 threaded attachment points and utilizes a 14-gauge steel grille internally lined with acoustically transparent foam to provide additional driver protection and give a very professional appearance.

The AM7212/00 is part of JBL's AE Series, a versatile family of loudspeakers intended for a wide variety of applications.

Specifications:

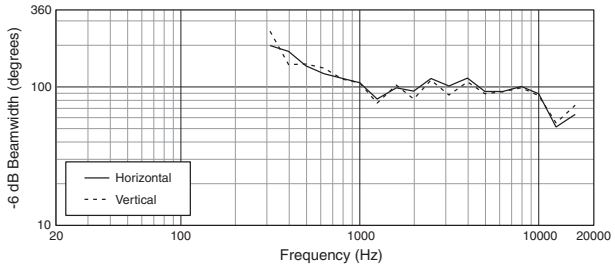
System:	
Frequency Range[1] (-10 dB):	36 Hz – 20 kHz
Frequency Response[1] (±3 dB):	42 Hz – 20 kHz
Coverage Pattern:	100° x 100°
Directivity Factor (Q):	8.3
Directivity Index (DI):	9.1 dB
Crossover Modes:	Bi-amp/Passive switchable
Passive Crossover Frequency[2]:	1.5 kHz
Transducer Power Rating (AES)[3]:	LF: 1000 W (4000 W peak), 2 hrs 700 W (2800 W peak), 100 hrs HF: 100 W (400 W peak), 2 hrs
Long-Term System Power Rating (IEC)[4]:	Passive mode: 600 W (2400 W peak), 100 hrs
Maximum SPL (dB-SPL, 1W @ 1m)[5]:	Bi-amp mode: LF: 126 dB-SPL cont avg (132 dB peak) HF: 131 dB-SPL cont avg (137 dB peak) Passive mode: 123 dB-SPL cont avg (129 dB peak)
System Sensitivity[6] (1W @ 1m):	Passive mode: 95 dB SPL
Transducers:	
Low Frequency Driver:	1 x JBL 2262H 300 mm (12 in) Differential Drive® driver with 75 mm (3 in) dual voice coil
Nominal Impedance:	8 ohms
Sensitivity[6] (1W @ 1m, within operational band):	96 dB SPL
High Frequency Driver:	JBL 2432H, 38 mm (1.5 in) exit compression driver, 75 mm (3 in) voice coil
Nominal Impedance:	8 ohms
Sensitivity (1W @ 1m):	111 dB SPL
Waveguide:	PT-H1010HF-1
Physical:	
Enclosure:	Trapezoidal with 15 degree side angles, 16 mm (5/8 in) exterior grade 11-ply Finnish birch plywood
Suspension Attachment:	15 points (4 top, 4 bottom, 2 each side, 3 rear), M10 threaded hardware
Finish:	Black DuraFlex™ finish. White available upon request.
Grille:	Powder coated 14 gauge perforated steel, with acoustically transparent black foam backing.
Input Connector:	NL4 Neutrik Speakon® and CE-compliant covered barrier strip terminals. Barrier terminals accept up to 5.2 sq mm (10 AWG) wire or max width 9 mm (.375 in) spade lugs. Speakon in parallel with barrier strip for loop-through.
Environmental Specifications:	Mil-Std 810; IP-x3 per IEC529.
Dimensions (H x W x D in vertical cabinet orientation):	711 x 369 x 458 mm (28.0 x 14.5 x 18.0 in)
Net Weight:	23.1 kg (51 lb)
Optional Accessories:	M10 x 35 mm forged shoulder eyebolts with washers U-Bracket MTU-3

[1]Bi-amp mode, with recommended active tuning.
[2]Resultant engineered acoustical response of crossover network and components.
[3]AES standard, one decade pink noise with 6 dB crest factor within device's operational band, free air. Standard AES 2 hr rating plus long-term 100 hr rating are specified for low-frequency transducers.
[4]IEC standard, full bandwidth pink noise with 6 dB crest factor, 100 hours.
[5]Calculated based on power rating and sensitivity, exclusive of power compression.
[6]In free field with no sensitivity gain from boundary loading.

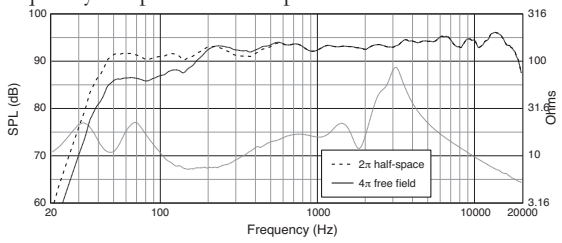
JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.

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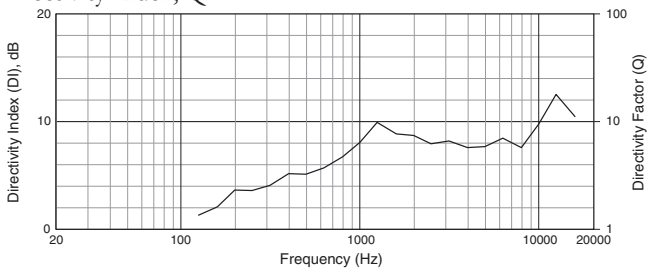
Beamwidth



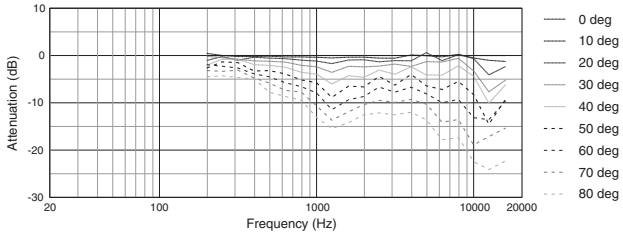
Frequency Response and Impedance



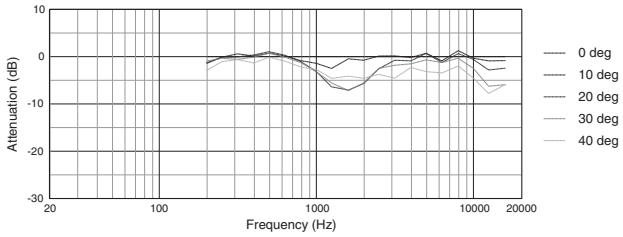
Directivity Index, Q



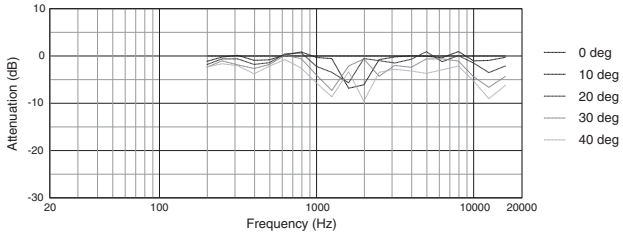
Horizontal Off-Axis Frequency Response



Vertical Up Off-Axis Frequency Response



Vertical Down Off-Axis Frequency Response



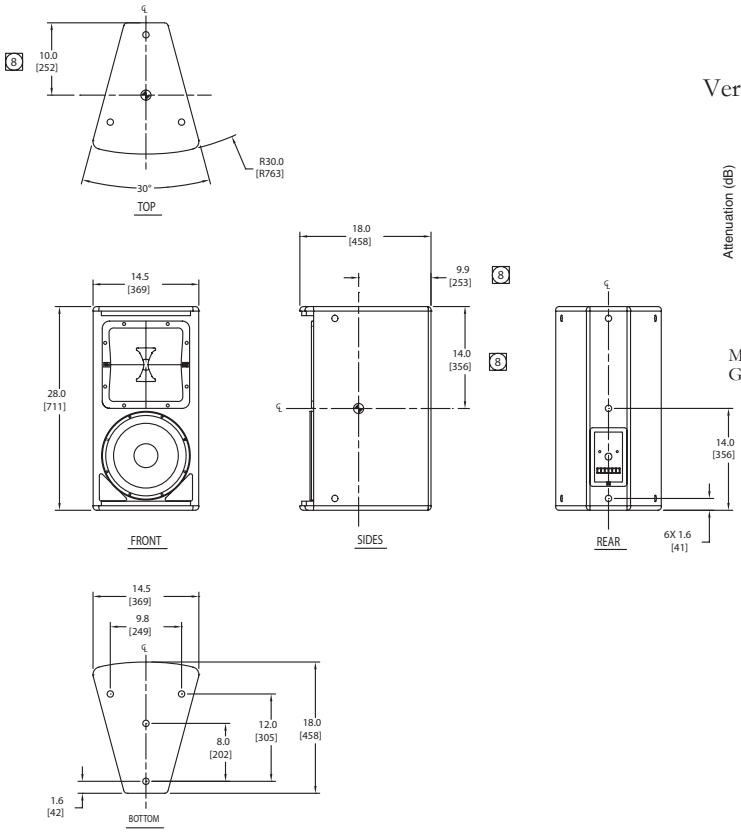
Measurements obtained in full passive crossover mode with no signal processing. Graphs are from unaltered measured data.

Dimensions

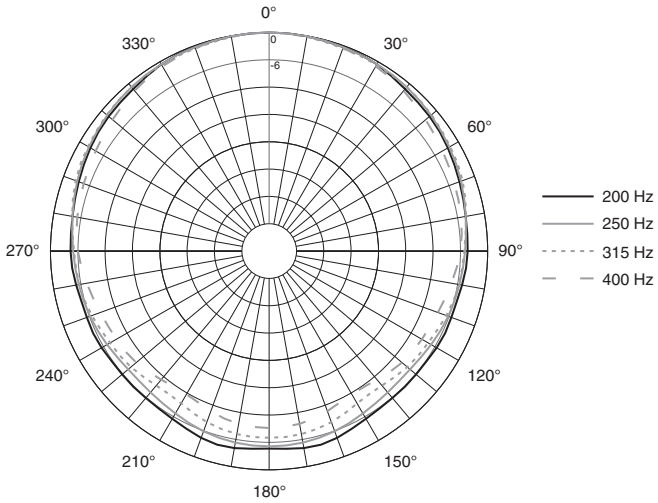
Dimensions in mm (in)

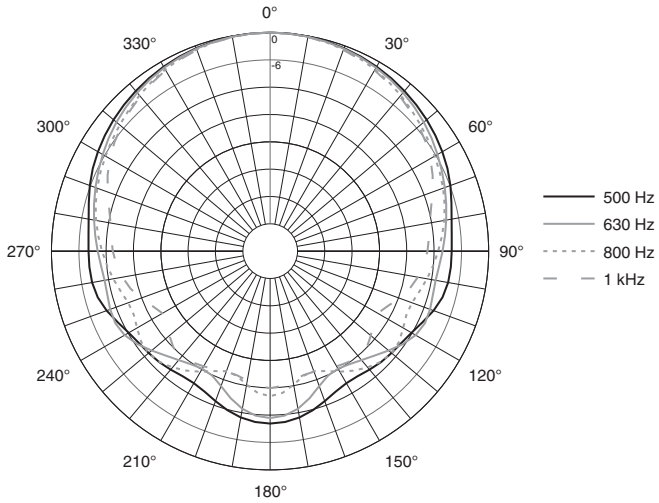
For more detailed dimensional information, refer to Application Data Sheet.

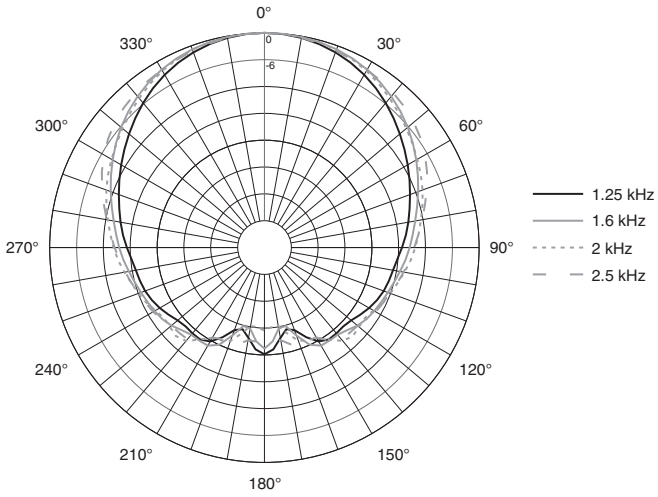
For AE & AE Compact Series WRC and WRX versions please visit the JBL Pro website at http://www.jblpro.com/www/products/installed-sound/ae-series#.V63kVfkrLIV to download Drawings.

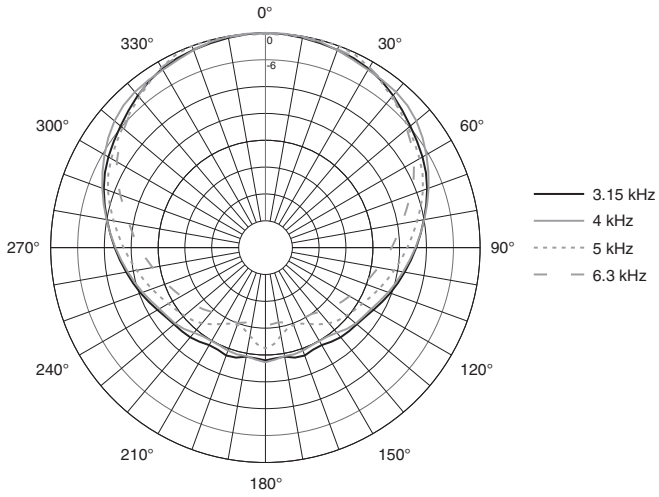


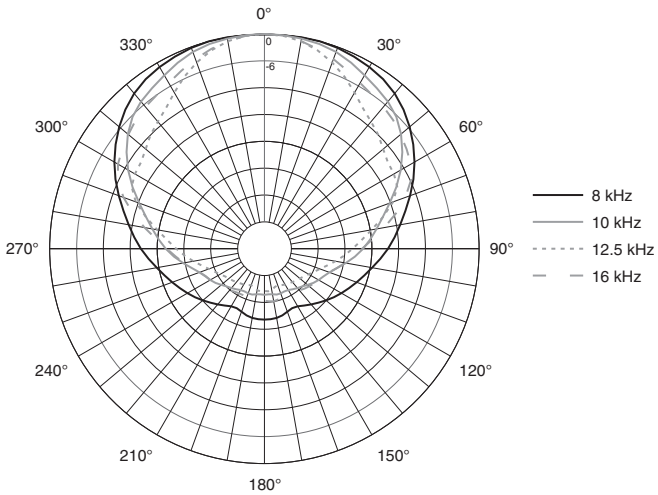
Horizontal 1/3 Octave Polars





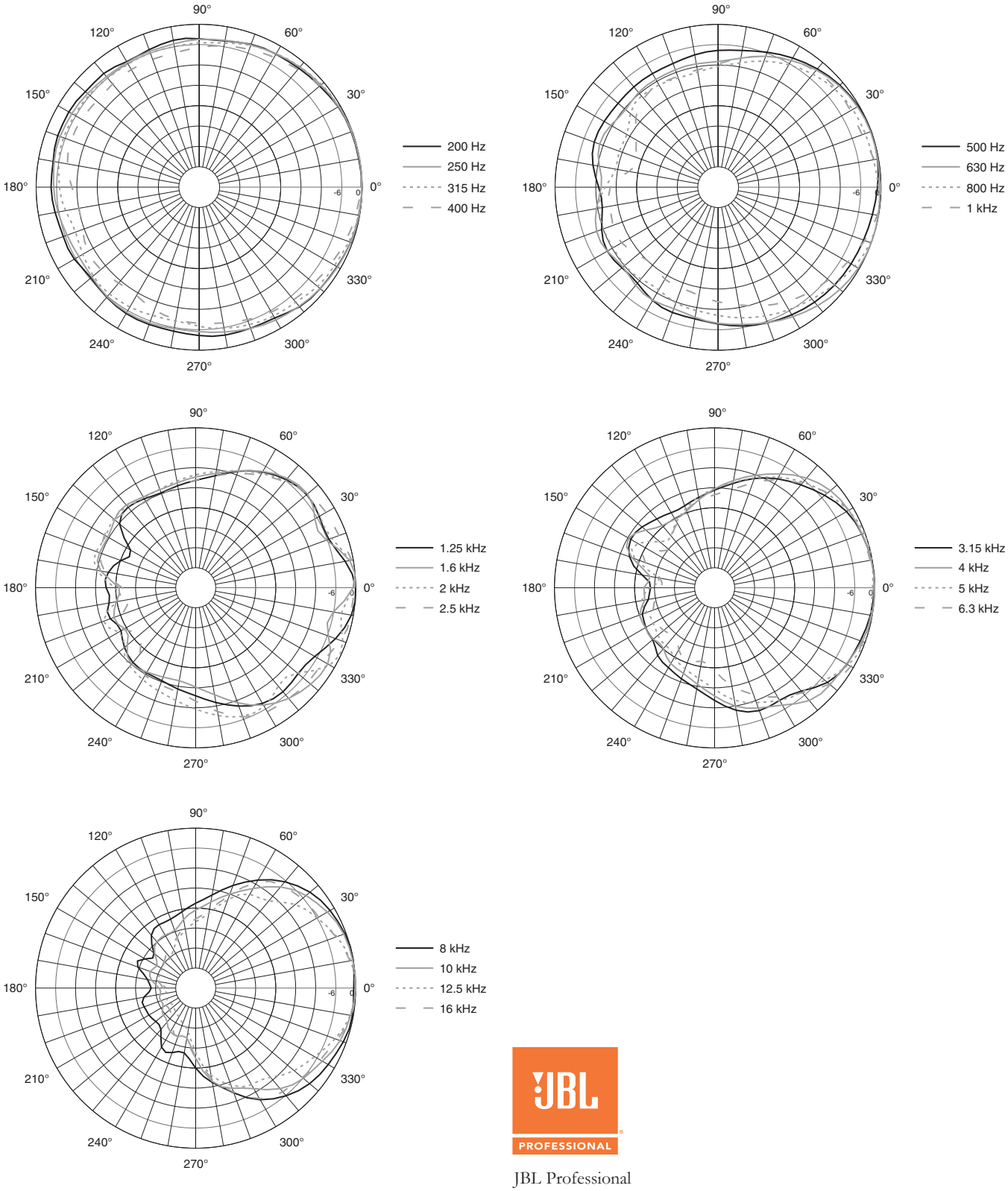






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Vertical 1/3 Octave Polars



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