



High Power 2-Way All Weather Loudspeaker with 1 x 15" LF & Rotatable Horn

Professional Series

Key Features:

- ► Weather-Resistant, All Fiberglass Enclosure
- ▶ 60° x 60° Coverage
- ▶ 2265H Differential Drive® Low-Frequency Driver
- ▶ 2432H High Frequency Compression
- ► Large PTTM Progressive Transition waveguide for excellent pattern control and low distortion
- Available in Gray and Black finish
- ▶ 400 W, 70/100V Transformer Included
- ► U-type Mounting Bracket Included

Applications:

- Sports Facilities
- ► Themed Entertainment Venues
- Outdoor Entertainment Centers
- ► Cruise Ships
- ▶ Water Parks

The AW566 is a high power, lightweight, 2-way, full-range loudspeaker system comprised of the JBL Differential Drive dual voice coil and dual magnetic gap 2265H 380 mm (15 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 wave-guide provides excellent 60° x 60° coverage. The loudspeaker system can used in either the vertical or horizontal orientation.

The enclosure is constructed of multilayer glass composite and is heavily braced to maximize lowfrequency performance. The 16-gauge stainless steel grille, backed with open cell foam and stainless steel mesh, provides excellent protection in the harshest environments. The system can be operated as an 8-ohm device and is equipped with a 400W transformer for 70/100V applications.

A corrosion-resistant extra-thick zincplated polyester powder coated U-type mounting bracket is included.

The AW566 is part of IBL's AE Series, a versatile family of loudspeakers intended for a wide variety of applications.



Specifications:

System:	
Frequency Range (-10 dB):	35 Hz – 20 kHz
Frequency Response (±3 dB):	54 Hz – 18 kHz
Coverage Pattern:	60° x 60°, rotatable waveguide
Directivity Factor (Q):	15.8
Directivity Index (DI):	12 dB
Crossover Frequency:	1.1 kHz
Long-Term System Power Rating (IEC)1:	600 W (2400 W peak), 100 hrs
Maximum SPL ² :	128 dB-SPL cont avg (134 dB peak)
System Sensitivity (1W @ 1m)3:	100 dB SPL
70V / 100V Transformer Taps ⁴ :	70V: 400 W, 200 W, 100W 100V: 400W, 200W
Transducers:	
Low Frequency Driver:	1 x JBL 2265H 380 mm (15 in) Differential Drive* driver with 75 mm (3 in) dual voice coil
Nominal Impedance:	8 ohms
Sensitivity ³ (1W @ 1m, within operational band):	98 dB SPL
High Frequency Driver:	JBL 2432H, 38 mm (1.5 in) exit compression driver, 75 mm (3 in) voice co
Nominal Impedance:	8 ohms
Sensitivity ³ (1W @ 1m):	113 dB SPL
Waveguide:	PT-H66HF-1
Physical:	
Enclosure:	Hand-Laminated Fiberglass, gray gelcoat (similar to Pantone 420C), available in black (-BK)
Suspension Attachment:	2 x M10 for Included U-Bracket, 2 x M6 for aiming stabilization, 1 x M10 on rear for safety.
Grille:	Three layer grille assemblies consisting of 16-gauge powder coated stainless steel, backed with open cell foam and stainless steel mesh.
Input Connector:	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.
Environmental Specifications:	IP55C per IEC 529
Dimensions (H x W x D in horizontal cabinet orientation):	485 x 810 x 478 mm (19.1 x 31.9 x 18.8 in)
Net Weight:	28.3 kg (62.5 lb)

'IEC standard, full bandwidth pink noise with 6 dB crest factor, 100 hours.

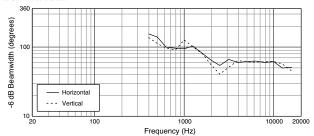
*Calculated based on power rating and sensitivity, exclusive of power compression.

*Anechoic sensitivity in free field, no additional sensitivity gain from boundary loading.

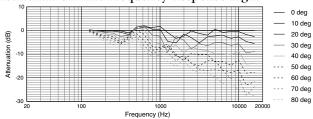
*Per EN54-24 Components of voice alarm system - loudspeakers 70V/400W (35V RMS, 70V peak), 100V/400W (50V RMS, 100V peak) JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.

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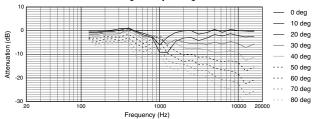
Beamwidth



Horizontal Off-Axis Frequency Response Right



Horizontal Off-Axis Frequency Response Left



Dimensions

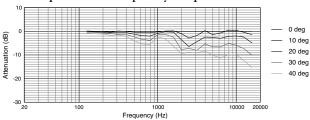
Dimensions in mm (in)

For more detailed dimensional information, refer to Application Data Sheet

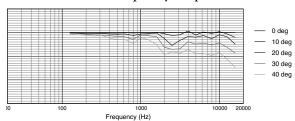
Frequency Response and Impedance



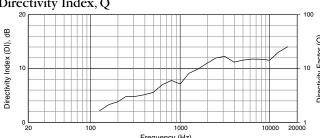
Vertical Up Off-Axis Frequency Response



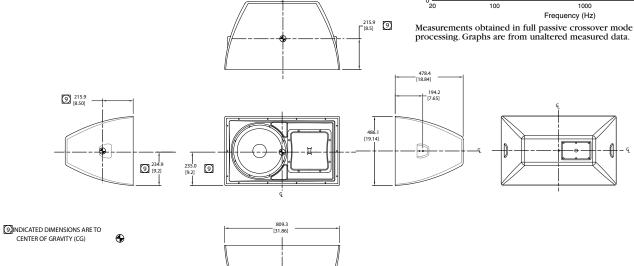
Vertical Down Off-Axis Frequency Response



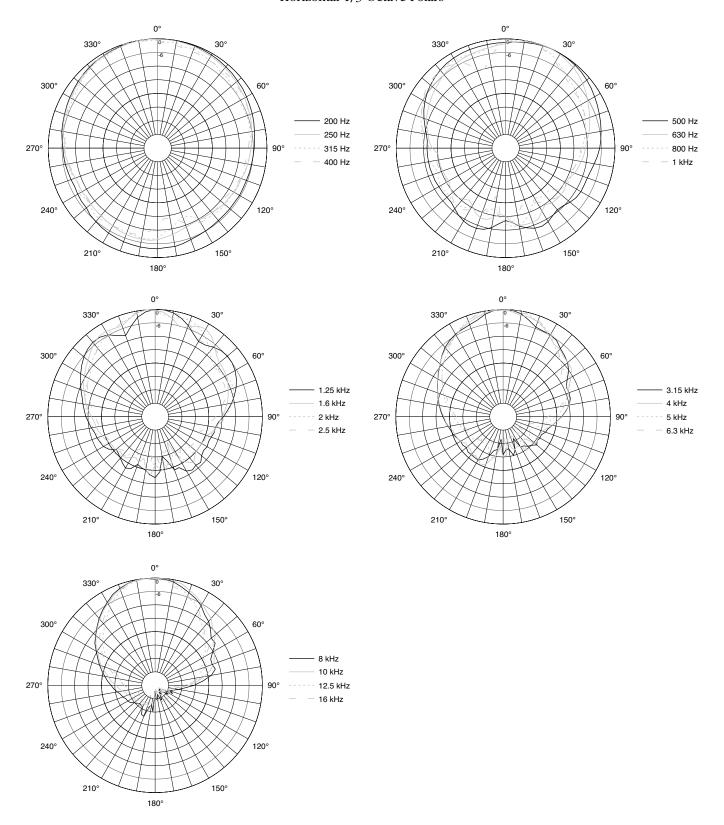
Directivity Index, Q



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

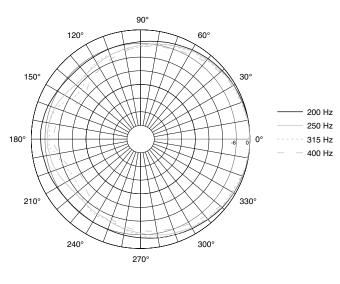


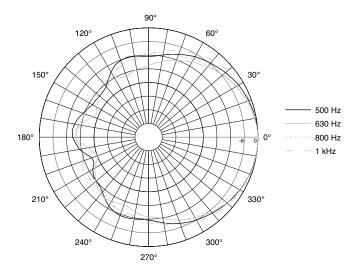
Horizontal 1/3 Octave Polars

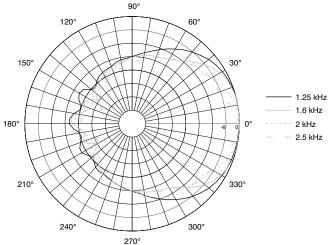


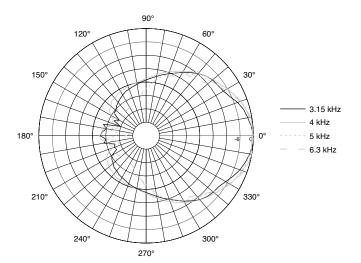
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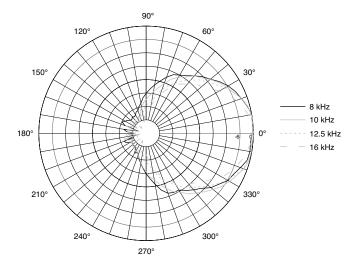
Vertical 1/3 Octave Polars













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