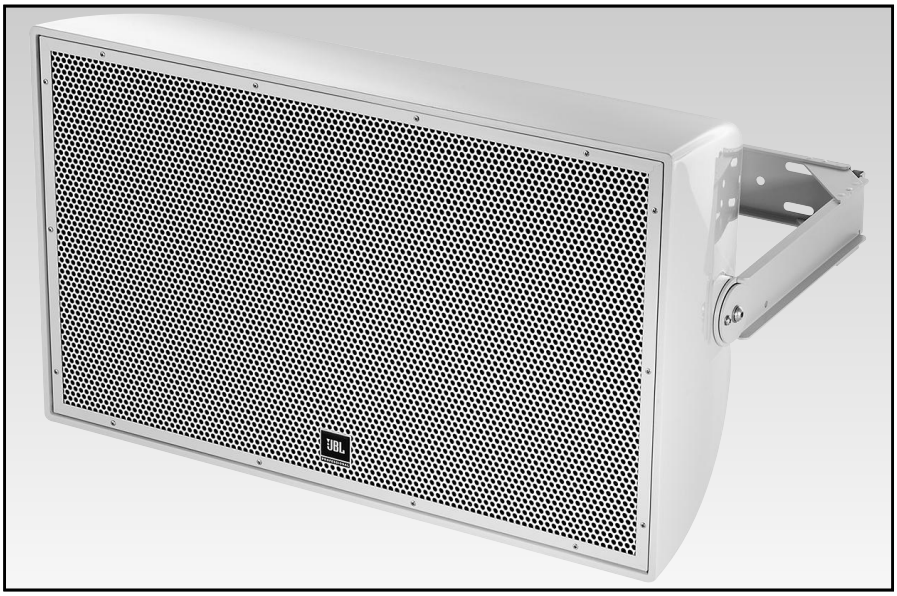
# AW566

## 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 Driver
- Large PT™ 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 low-frequency 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 zinc-plated polyester powder coated U-type mounting bracket is included.

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

## Specifications:

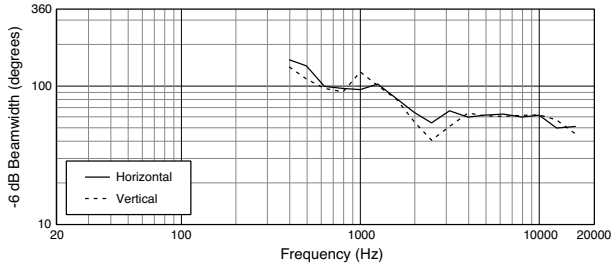
| | |
|---|---|
| **System:** | |
| Frequency Range (-10 dB): | 35 Hz – 20 kHz |
| Frequency Response (±3 dB): | 54 Hz – 18 kHz |
| Coverage Pattern: | 60° x 60°, rotatable waveguide |
| Directivity Factor (Q): | 15.8 |
| Directivity Index (DI): | 12 dB |
| Crossover Frequency: | 1.1 kHz |
| Long-Term 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<br>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 coil |
| 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<br>(19.1 x 31.9 x 18.8 in) |
| Net Weight: | 28.3 kg (62.5 lb) |

[1]IEC standard, full bandwidth pink noise with 6 dB crest factor, 100 hours.
[2]Calculated based on power rating and sensitivity, exclusive of power compression.
[3]Anechoic sensitivity in free field, no additional sensitivity gain from boundary loading.
[4]Per EN54-24 Components of voice alarm system - loudspeakers 70V/400W (35V RMS, 70V peak), 100V/400W (50V RMS, 100V peak)

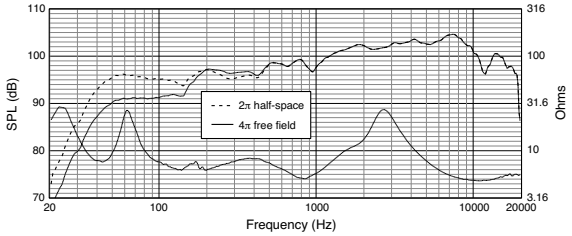
JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.

# AW566 High Power 2-Way All Weather Loudspeaker with 1 x 15" LF & Rotatable Horn

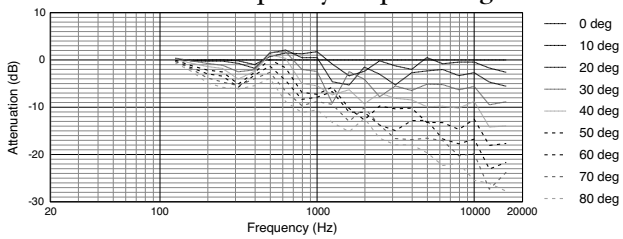
## Beamwidth



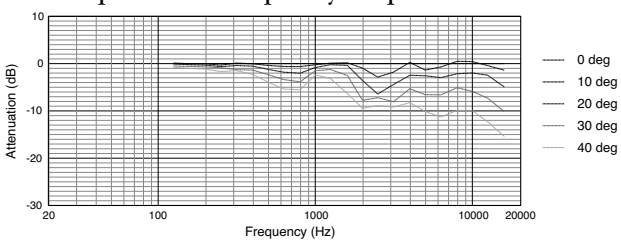

## Frequency Response and Impedance



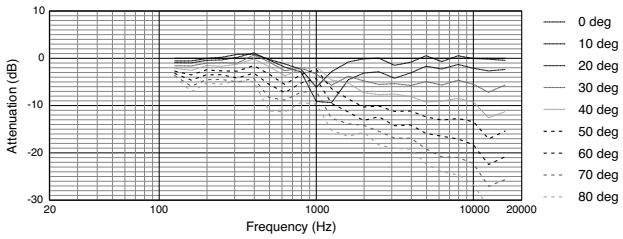

## Horizontal Off-Axis Frequency Response Right



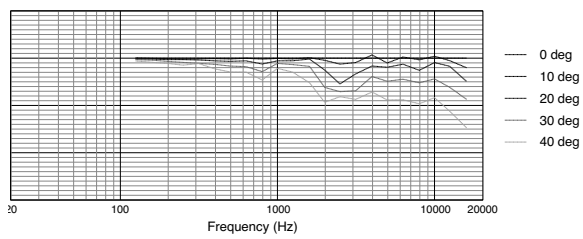

## Vertical Up Off-Axis Frequency Response



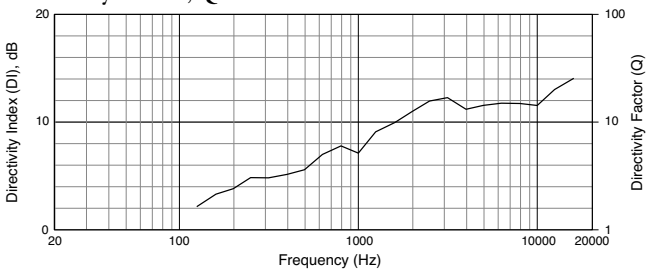

## Horizontal Off-Axis Frequency Response Left




## Vertical Down Off-Axis Frequency Response




## Directivity Index, Q

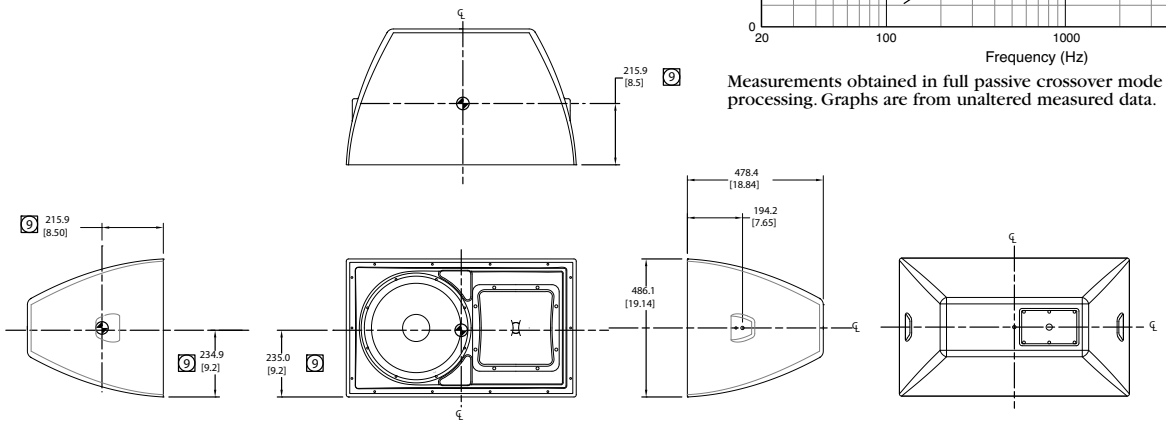



Measurements obtained in full passive crossover mode with no signal processing. Graphs are from unaltered measured data.

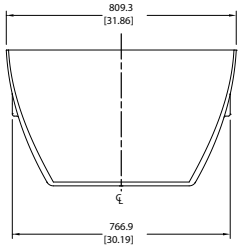
## Dimensions

Dimensions in mm (in)

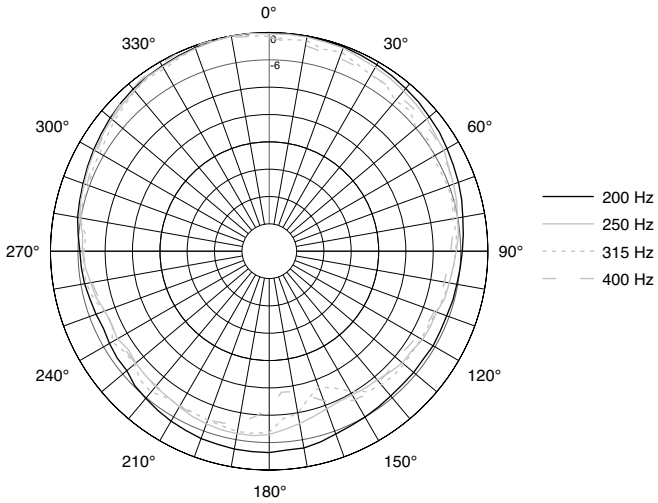
For more detailed dimensional information, refer to Application Data Sheet

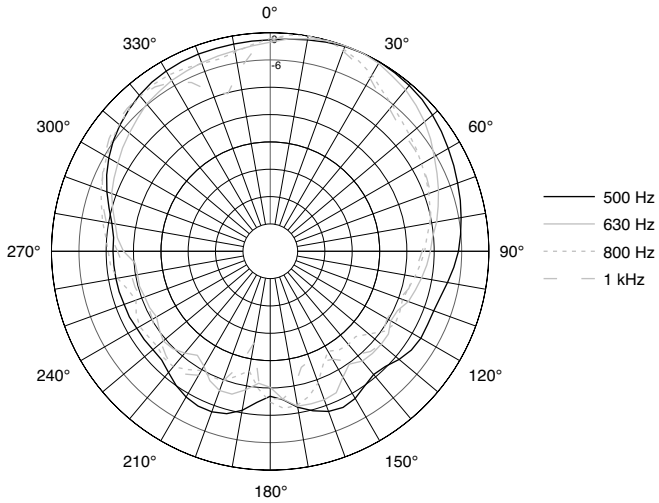


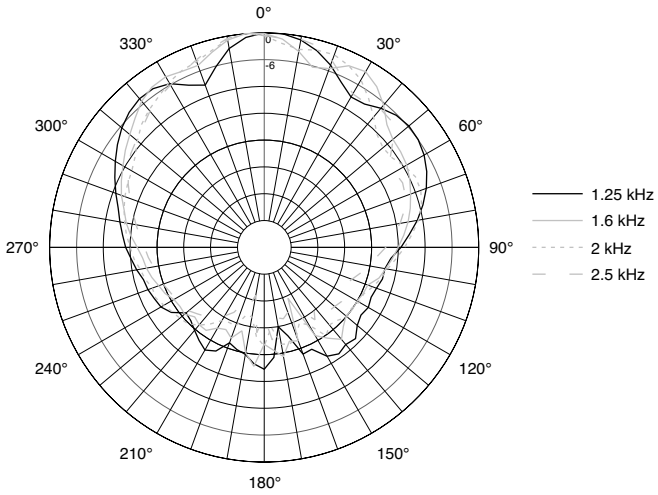

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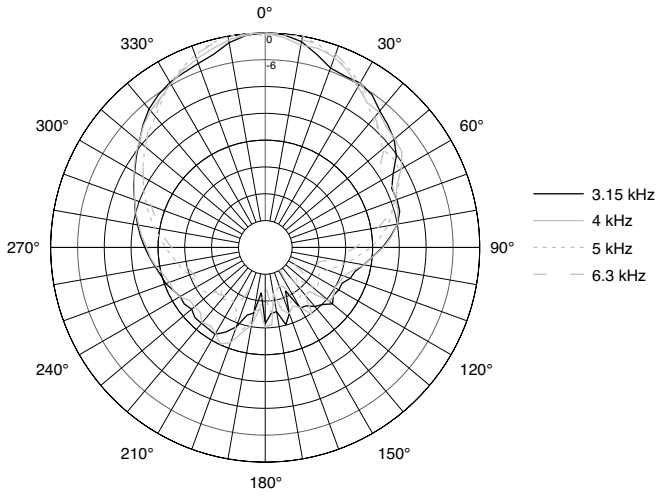


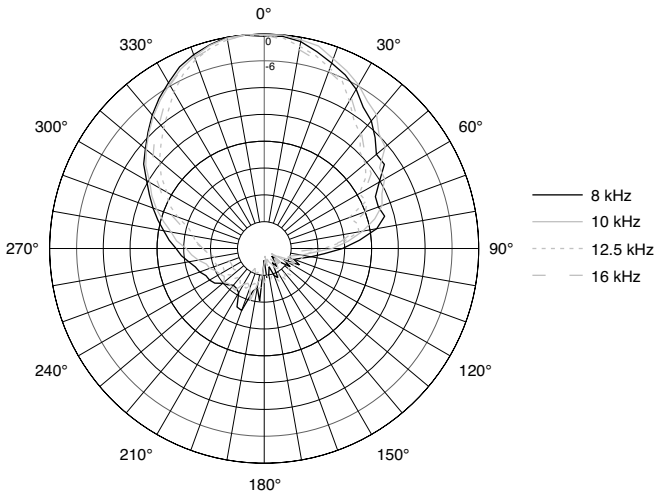
## Horizontal 1/3 Octave Polars



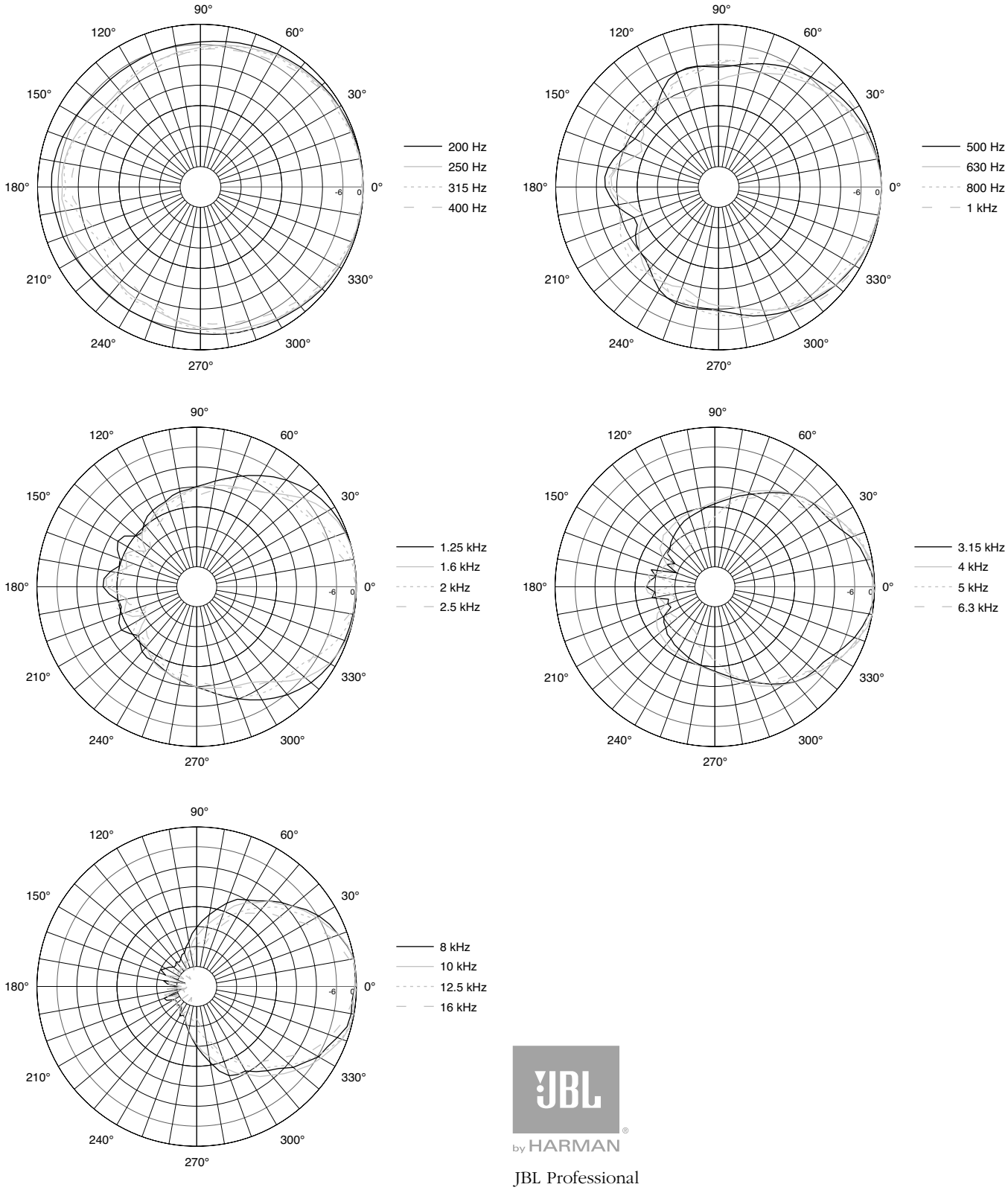



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## Vertical 1/3 Octave Polars




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