

Artec 508

TWO-WAY VENTED LOUDSPEAKER SYSTEM



- >> Two-way vented loudspeaker system
- >> 1 x 8" cone speaker
- >> 1" exit compression driver with constant directivity horn
- >> 300 W power handling

The D.A.S. Artec 508 is a Two-way vented loudspeaker system designed for applications covering speech reinforcement and program reproduction.

The low end utilizes a high efficiency 8" low frequency speaker with 2" voice coil.

The high end makes use of a 1" exit compression driver with 1.75" titanium diaphragm, coupled to a 80° x 80° horn.

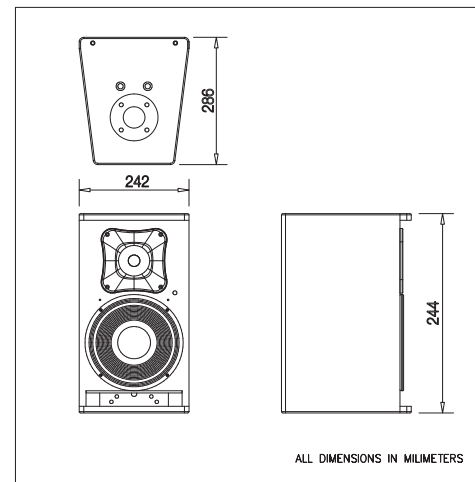
The unit has a robust grille design internally lined with acoustically transparent filter cloth to protect the loudspeaker components. The covering is resistant to wear and tear, provides protection from dust and dirt.

4 integrated rigging points that accept 10M forged steel eyebolts or "U" bracket make suspension in either the horizontal or vertical positions safe and simple.

Technical Specifications

RMS (Average) Power Handling ^a	300 W
Program Power Handling ^b	600 W
Peak Power Handling ^c	1200 W
On-axis Frequency Range	60 Hz - 20 kHz
Nominal Impedance	8 Ohms
Minimum Impedance	8.4 Ohms @ 7.6 kHz
On-axis Sensitivity 1W/1m	91 dB SPL
Rated Peak SPL at Full Power	122 dB SPL
Nominal -6dB Beamwidths	80° Horizontal x 80° Vertical
Enclosure Material	Wisac Birch Plywood
Finish	Isoflex Black Paint
Transducers/Replacement Parts	LF: 8C / 8C HF: M34 / GM-M34
Connector	2 paralleled NL4 Speakon, wired to +/-1
Dimensions (H x W x D)	24.4 x 24.2 x 28.6 cm
Weight	17.5 x 9.6 x 11.2 in 7.9 kg
Accessories (optional)	ANL-2 TRD-6 TRD-2 AXU-A508 AXW-1 AXR-A500 AXF-A508

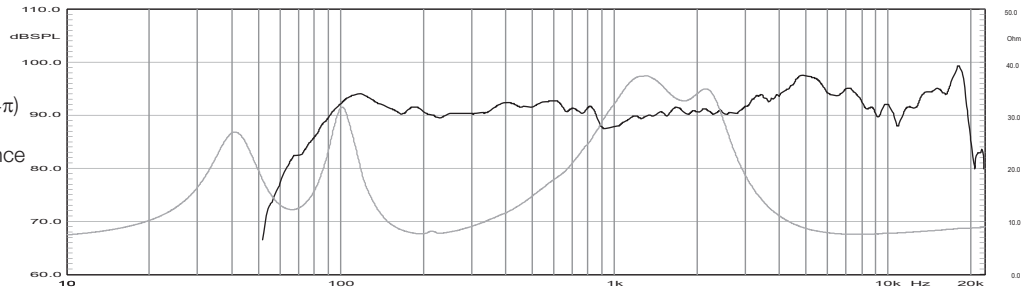
Dimensions



^a Based on a 2 hour test using a 6dB crest factor pink noise signal
^b Conventionally, 3dB higher than the RMS measure
^c Corresponds to the signal crests for the test described in ^a

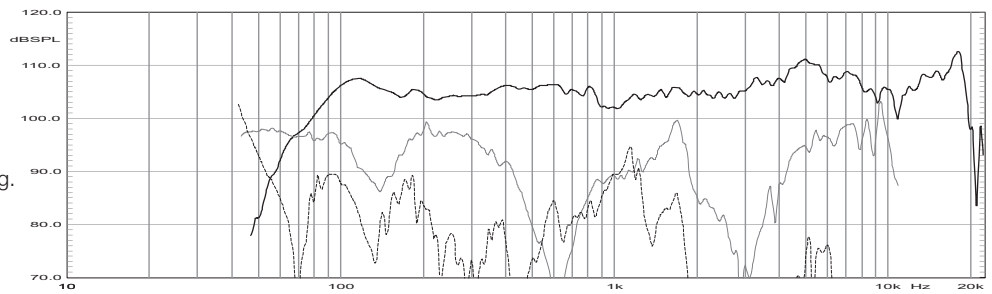
Frequency Response

Shows the frequency response at 1m of a unit radiating to an anechoic environment (4 π) and driven by a 1w (4 V) swept sine signal, and impedance curve. For better detail, only light smoothing (1/12th octave) has been used.



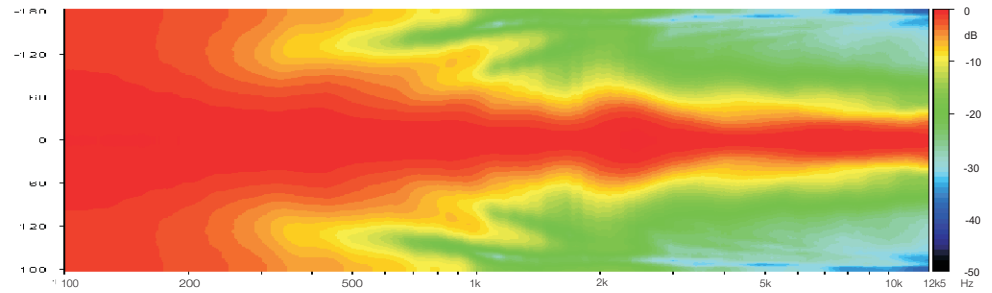
Distortion

Shows the Second Harmonic Distortion (grey) and Third Harmonic Distortion (dotted) curves for a unit driven at 10% of its nominal power rating. Rised 20dB for clarity.



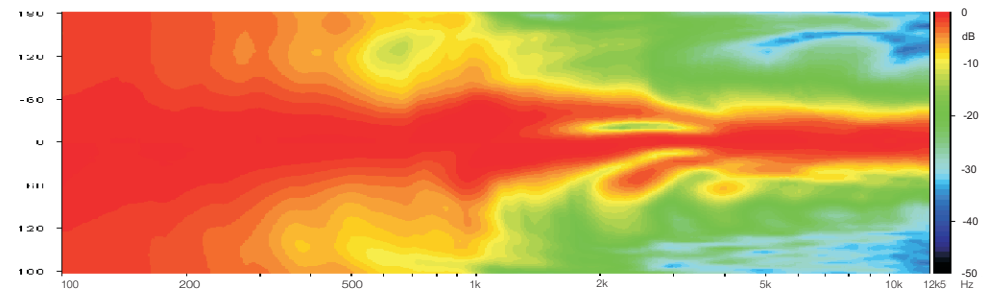
Directivity

Shows normalized horizontal isobar plot



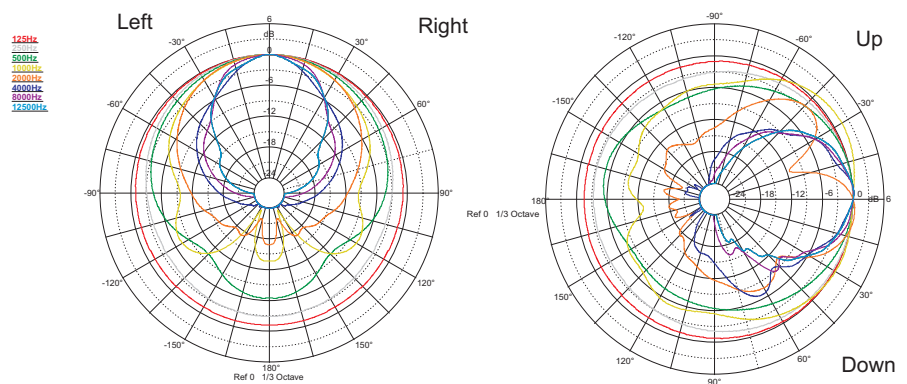
Directivity

Shows normalized vertical isobar plot



Polar Response

1/3 octave band horizontal (left) and vertical (right) polars for the indicated frequencies. Full scale is 30dB, 6dB per division.



NOTES: Frequency response measured at 4m (13.12ft). For better detail, only light smoothing (1/12th octave) has been used. Polars were acquired by placing the unit on a computer controlled turntable inside a 300 m² (10594 ft²) anechoic chamber. Measurement distance is 4m (13.12ft).

Product improvement through research and development is a continuous process at D.A.S. Audio. All specifications subject to change without notice.



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