

# Artec 506

## TWO-WAY VENTED LOUDSPEAKER SYSTEM



**>> Two-way vented  
loudspeaker system**  
**>> 1 x 6" cone speaker**  
**>> 1" exit compression  
driver with constant  
directivity horn**  
**>> 200 W rms power  
handling**

The D.A.S. Artec 506 is a two-way vented loudspeaker system designed for applications covering speech reinforcement and program reproduction.

The low end utilizes a high efficiency 6" 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.

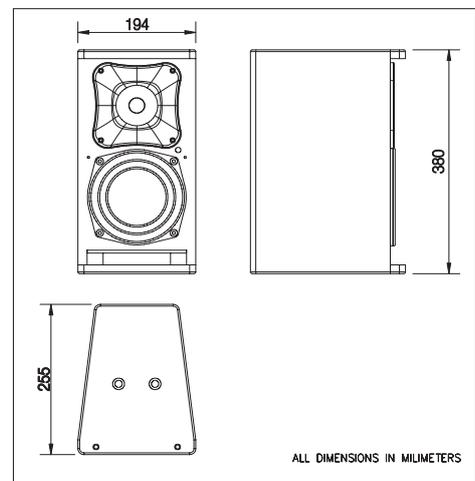
The unit has a robust grille design internally lined with acoustically transparent filter cloth to protect the loudspeaker components. The covering is resistant to wear and tear, provides protection from dust and dirt.

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 <sup>R</sup>	200 W
Program Power handling <sup>P</sup>	400 W
Peak Power Handling <sup>K</sup>	800 W
On-axis Frequency Range	65 Hz - 20 kHz
Nominal Impedance	8 ohm
Minimum Impedance	6.3 ohm at 240 Hz
On-axis Sensitivity 1W/1m	90 dB SPL
Rated Peak SPL at Full Power	122 dB SPL
Nominal -6dB Beamwidths	80° Horizontal x 80° Vertical
Enclosure Material	Wisa® Birch Plywood
Color/Finish	Isoflex Black Paint
Transducers/Replacement Parts	LF: 6P / 6P HF: M34 / GM-M-34
Connector	2 paralleled NL4 Speakon, wired to +/-1
Dimensions (H x W x D)	38 x 19.4 x 25.5 cm 15 x 7.7 x 10 in
Weight	7 kg (15.4 lb)
Accessories (optional)	ANL-2 TRD-6 + AXC-ZT TRD-2 + AXC-ZT AXU-A506 AXW-1 AXR-A500

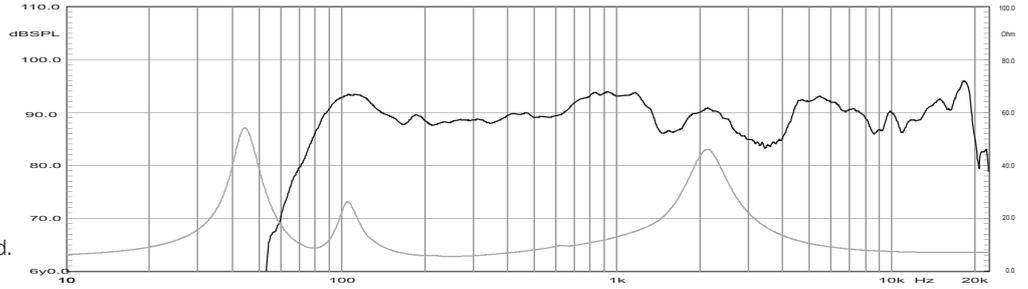
### Dimensions



<sup>R</sup> Based on a 2 hour test using a 6dB crest factor pink noise signal  
<sup>P</sup> Conventionally, 3dB higher than the RMS measure  
<sup>K</sup> Corresponds to the signal crests for the test described in <sup>R</sup>

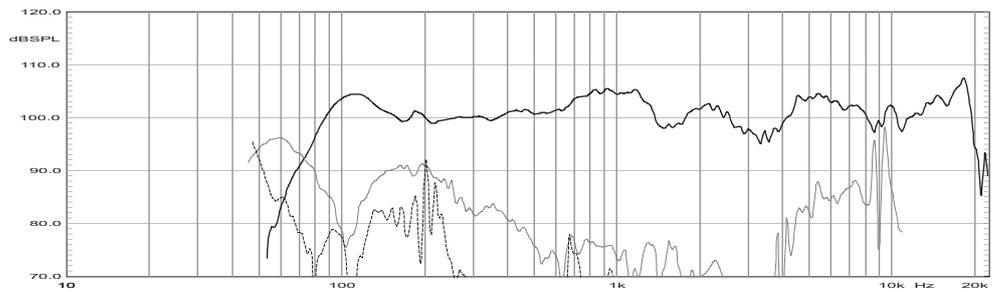
**Frequency Response**

Shows the frequency response at 1m of a unit radiating to an anechoic environment ( $4\pi$ ) and driven by a 1w (2.83 V) swept sine signal, and impedance curve. For better detail, only light smoothing (1/12th octave) has been used.



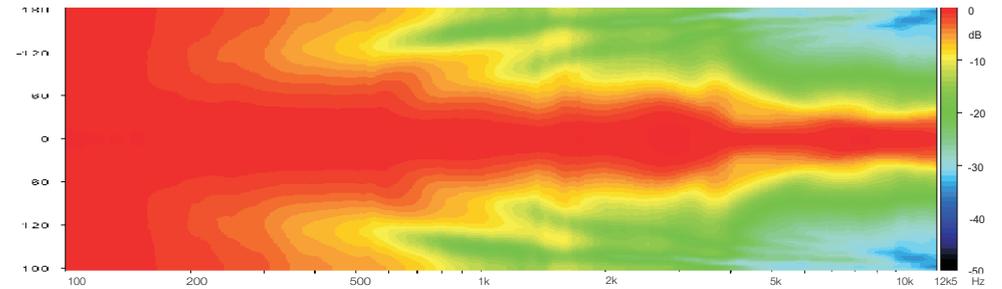
**Distortion**

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



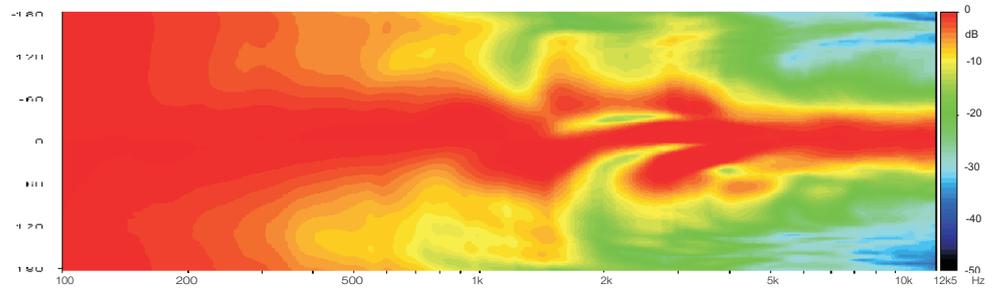
**Directivity**

Shows normalized horizontal isobar plot



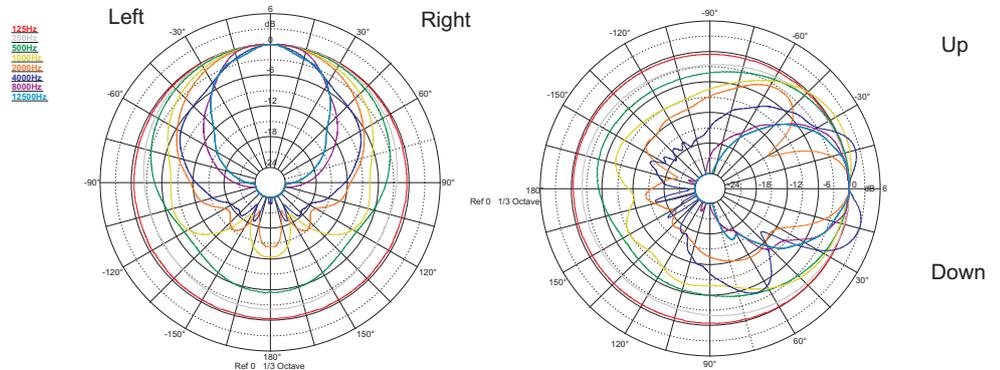
**Directivity**

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 m<sup>3</sup> (10594 ft<sup>3</sup>) 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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