Artec 510

TWO-WAY VENTED LOUDSPEAKER SYSTEM

>> Two-way vented loudspeaker system

>> 1 x 10” cone speaker

>> 1.73” compression driver with constant directivity horn

>> 400 W power handling

The D.A.S. Artec 510 is a two-way vented loudspeaker system designed for applications covering speech reinforcement and program reproduction.

The low end utilizes a high efficiency 10” low frequency speaker with 3” voice coil.

The high end makes use of a 1” exit compression driver with 1.75” titanium diaphragm, coupled to a 110º x 50º horn.

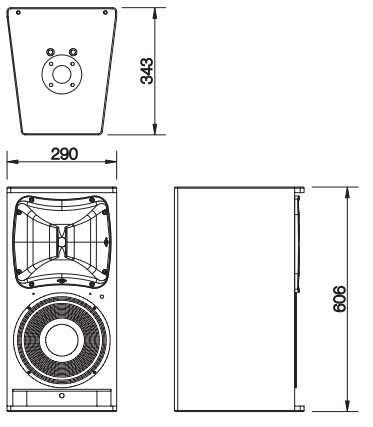
The unit has a robust grille design internally lined with acoustically transparent filter cloth to protect the loudspeaker components. The covering is resistant to wear and tear, provides protection from dust and dirt.

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

Technical Specifications

RMS (Average) Power Handling[R]	400 W
Program Power Handling[P]	800 W
Peak Power Handling[K]	1600 W
On-axis Frequency Range	55 Hz - 20 kHz
Nominal Impedance	8 Ohms
Minimum Impedance	8 Ohms @ 160 Hz
On-axis Sensitivity 1W/1m	96 dB SPL
Rated Peak SPL at Full Power	128 dB SPL
Nominal -6dB Beamwidths	110º Horizontal x 50º Vertical
Enclosure Material	Wisa® Birch Plywood
Finish	Isoflex Black Paint
Transducers/Replacement Parts	LF: 10P / GM-10P HF: M60N / GM-M-60N
Connector	2 paralleled NL4 Speakon, wired to +/-1
Dimensions (H x W x D)	60.6 x 29 x 34.3 cm 23.8 x 11.4 x 13.6 in
Weight	11 kg (24.2 lb)
Accesories (optional)	ANL-2 TRD-6 TRD-2 AXU-A510 AXW-3 AXR-A500 AXF-A510

Dimensions



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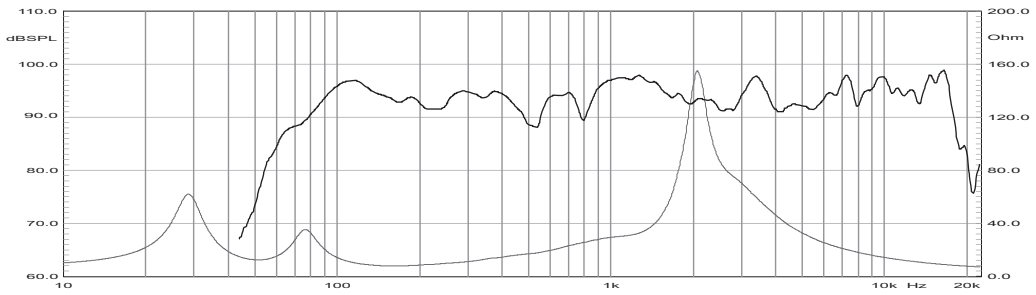
[R] Based on a 2 hour test using a 6dB crest factor pink noise signal
[P] Conventionally, 3dB higher than the RMS measure
[K] Corresponds to the signal crests for the test described in [R]

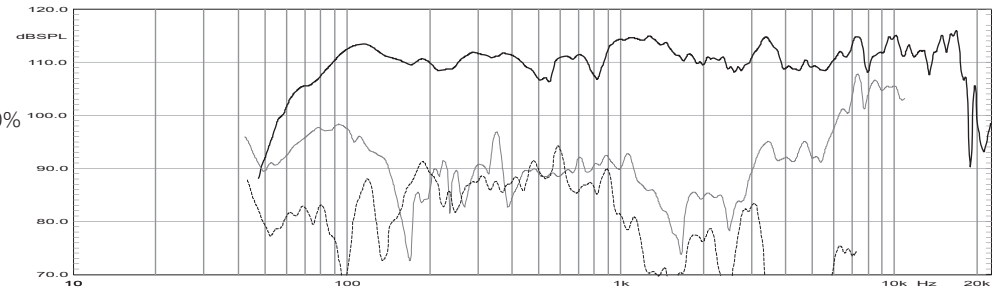
Frequency Response

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



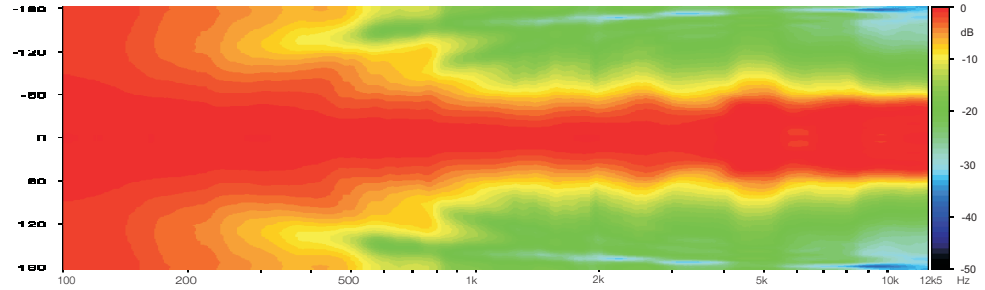
Distortion

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.



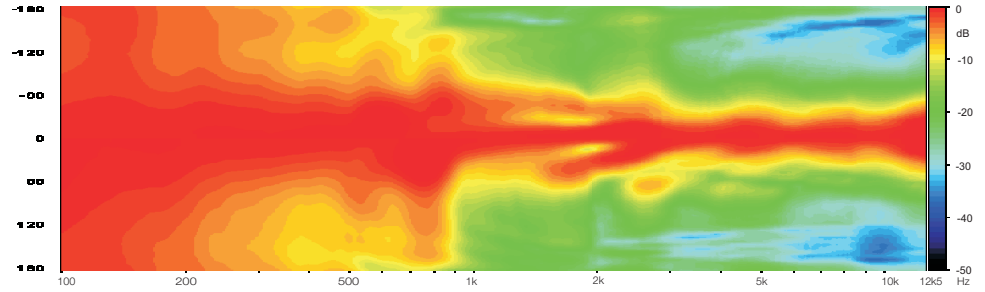
Directivity

Shows normalized horizontal isobar plot



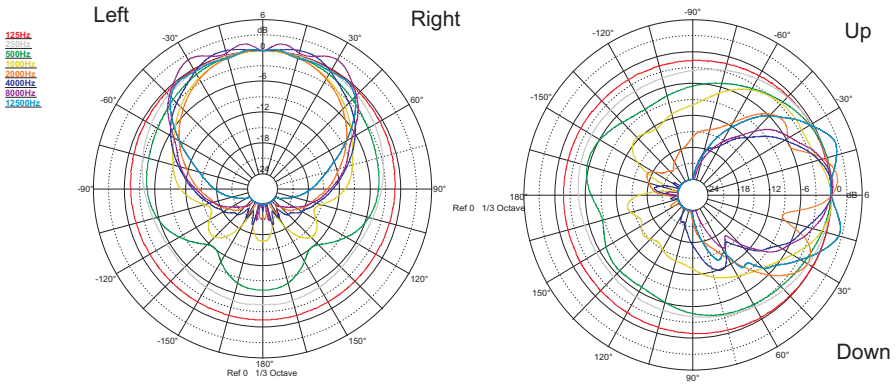
Directivity

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 m^3 (10594 ft^3) 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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