Artec 510A

POWERED, BI-AMPLIFIED LOUDSPEAKER SYSTEM

>> 360 W continuous low frequency 3rd Generation Class D power amplifier

>> 180 W continuous high frequency 3rd Generation Class D power amplifier

>> 1 x 10” cone speaker

>> 1” exit compression driver with constant directivity horn

The D.A.S. Artec 510A is a 2-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.

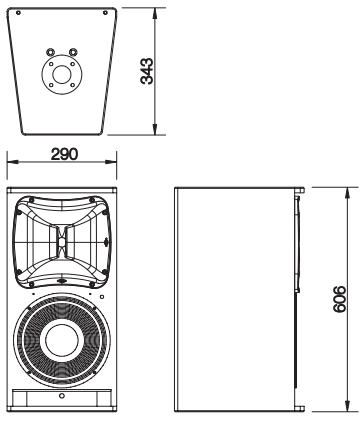
The unit has a robust grille design internally lined with acoustically transparent filter cloth to protect the loudspeaker components. The covering is resistant to wear and tear, provides protection from dust and dirt.

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

Nominal LF Power Amplifier	720 W peak - 360 W continuous
Nominal HF Power Amplifier	360 W peak - 180 W continuous
Input Type	Balanced differential line
Input Impedance	Line: 20 kohms
Sensitivity	Line: 1.95V (+ 8dBu)
On-axis Frequency Range (-10dB)	45 Hz - 20 kHz (Flat preset)
Maximum Peak SPL at 1m[1]	128 dB
HF Horn Coverage Angles (-6dB)	110º x 50º
Enclosure Material	Birch Plywood
Finish	Isoflex Black Paint
Transducers / Replacement Parts	LF: 1 x 10P / GM 10P HF: 1 x M-60N / GM M-60N
Connectors	INPUT: Female XLR LOOP THRU: Male XLR AC INPUT: PowerCon NAC 3 FCA
AC Power Requirements	115 V, 50Hz/60 Hz 230 V, 50 Hz/60 Hz 170V @ 230V
Dimensions (H x W x D)	60.5 x 29 x 34.5 cm (23.8 x 11.4 x 13.6 in)
Weight	13 Kg (28.7 lb)
Accessories (optional)	TRD-2, TRD-6, AX-SPG1, AX-SPG2, AXF-A510, AXR-A500, AXU-A510, AXW-3, ANL-2.

Dimensions



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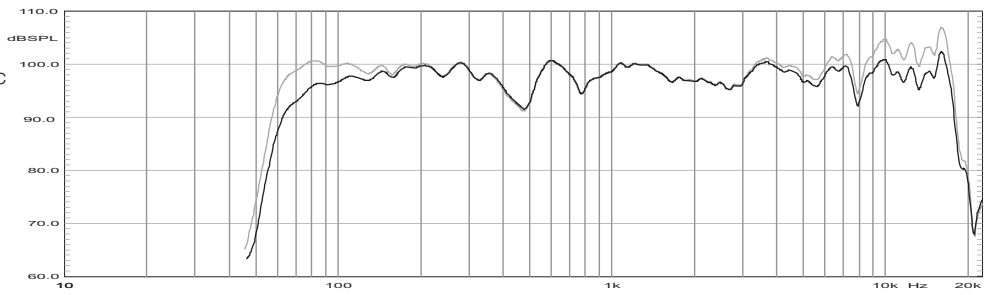
[R] Based on a 2 hour test using a 6dB crest factor pink noise signal
[P] Conventionally, 3dB higher than the RMS measure
[k] Corresponds to the signal crests for the test described in [R]

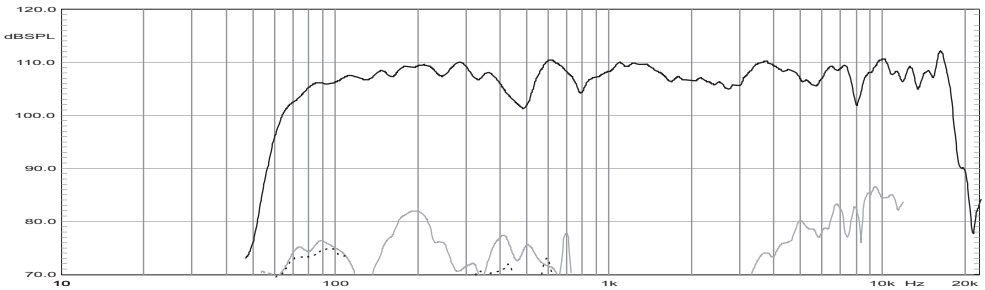
Frequency Response

Frequency response at 1m of a unit radiating to an anechoic environement and driven by a -20dBu swept sine signal with Flat preset (Black) and Boost preset (Grey).



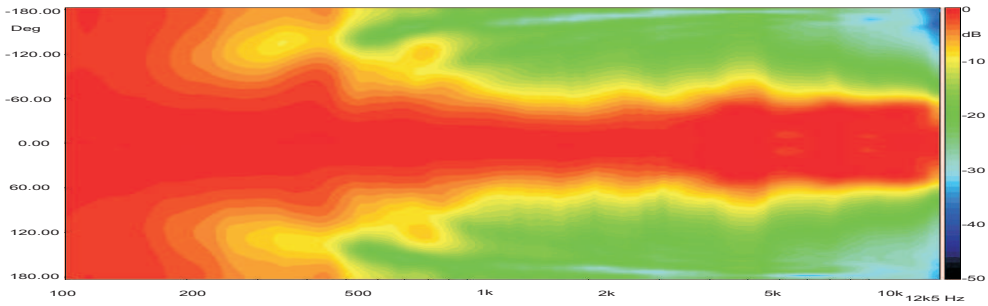
Distortion

Second Harmonic Distortion (grey) and Third Harmonic Distortion (dotted) curves for a unit driven by a swept sine wave signal (-10dBu).



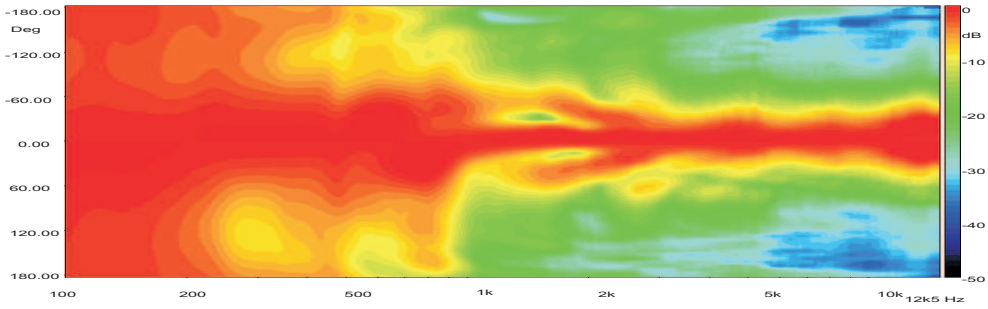
Horizontal Directivity.

Shows normalized horizontal isobar plot.



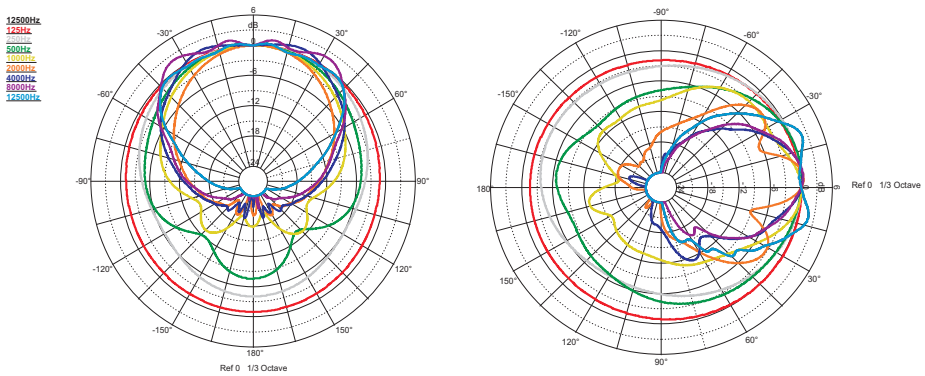
Vertical Directivity.

Shows normalized vertical isobar plot.



Polar Response.

Shows the 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 411 m^3 (14514 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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