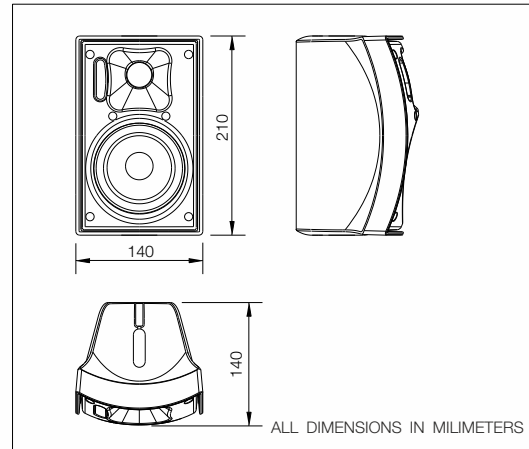


VA-4 / VA-4T

TWO-WAY VENTED
LOUDSPEAKER SYSTEM

The DAS VA-4 / VA-4T is a two-way vented loudspeaker system designed for background/foreground music and paging applications that is both compact in size and light in weight.

The low end utilizes a 4" woofer with a weather resistant polypropylene cone and 1" voice coil.

The high end makes use of a 19mm neodymium dome tweeter for brilliant highs.

The high impact ABS enclosure is paintable and UV resistant.

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

A full-bandwidth overload safety circuit protects the speakers from damage.

Cabinets are equipped with 4 M6 rigging points and a safety cable attachment point.

VA-4T version is equipped with a factory-installed multi-tap transformer.

Technical Specifications

RMS (Average) Power Handling^a:	50 W
Program Power Handling^b:	100 W
Peak Power Handling^c:	200 W
On-axis Frequency Range (-10dB):	90 Hz - 22 kHz
Nominal Impedance:	8 Ohms
Minimum Impedance (LF):	6.9 Ohms @ 275 Hz
Transformer Taps:	Tap0, Low Z. Tap1, 5w. Tap2, 10w. Tap3, 15w @ 100V. Tap0, Low Z. Tap1, 2.5w. Tap2, 5w. Tap3, 7.5w @ 70V.
On-axis Sensitivity 1w/1m:	86 dB SPL
Rated Peak SPL at Full Power:	109 dB SPL
Nominal -6dB Beamwidths:	90° x 90°
Enclosure Material:	High Impact ABS
Colour/Finish:	Black or White
Transducers/Replacement Parts:	LF: 4G/4G HF: TWT-4/TWT-4
Connector:	Spring Loaded Terminals
Dimensions (H x W x D):	21 x 14 x 14 cm 8.7 x 5.5 x 5.5 in
Net Weight:	1.6 kg (3.6 lb)
Included Accessories:	none
Optional Accessories:	AXU-VA4 AXA-AC

EN54-24 Based Technical Specifications

Nominal Power^d:	45 W
On-axis Frequency Range (-10dB):	90 Hz - 22 kHz
Transformer Taps:	Tap0, 8 Ohms. Tap1, 5w. Tap2, 10w. Tap3, 15w @ 100V Tap0, 8 Ohms. Tap1, 2.5w. Tap2, 5w. Tap3, 7.5w @ 70v
Nominal Impedance:	Tap0, 6 Ohms. Tap1, 1125 Ohms. Tap2, 526 Ohms. Tap3, 375 Ohms.
Minimum Impedance:	4.8 @ 11.5 kHz Ohms
On-axis Sensitivity 1w/4m:	72.4dB at 1w/4m,
Measured Maximum SPL at 4m^e:	84.95 dB
Horizontal Coverage Angles (-6dB):	500Hz, 360°. 1kHz, 182°. 2kHz, 113°. 4kHz, 84°.
Vertical Coverage Angles (-6dB):	500Hz, 360°. 1kHz, 165°. 2kHz, 107°. 4kHz, 80°
Enclosure Material:	High Impact ABS
Colour/Finish:	Black or White
Transducers/Replacement Parts:	LF: 4G/4G HF: TWT-4/TWT-4
Environmental Type:	Type B
Environmental Performance:	EN 60529 IP 54
Connector:	Spring Loaded Terminals
Dimensions (H x W x D):	21 x 14 x 14 cm 8.7 x 5.5 x 5.5 in
Net weight:	1.6 kg (3.6 lb)
Included Accessories:	none
Optional Accessories:	AXU-VA4, AXA-AC

^aBased on a 2 hour test using a 6dB crest factor pink noise signal.

^bConventionally, 3dB higher than RMS measure, although this already, utilizes a program signal.

^cCorresponds to the signal crests for the test described in ^a.

^dNominal Power based on a 100h test using a 6dB crest factor pink noise signal filtered according to the IEC 60268-1:1985 norm and band-pass filtered with Butterworth 24dB/Oct filters from 89Hz to 11.2kHz.

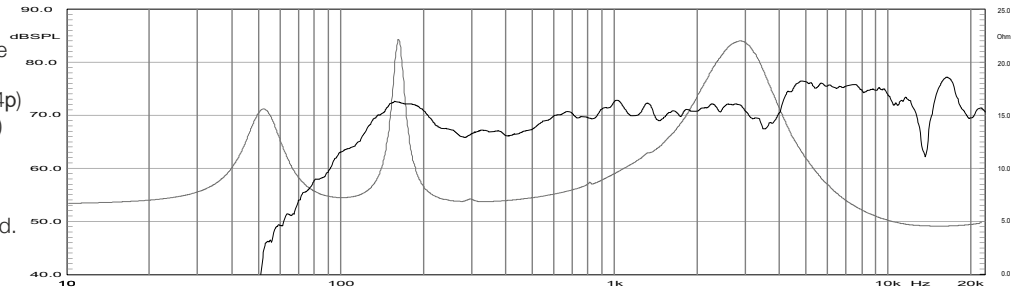
^eSensitivity and Max SPL measured using a 6dB crest factor pink noise, averaged from 100Hz to 10kHz in 1/3 Octave bands.

^fCoverage measured from 500Hz to 4kHz in Octave bands.

^gObtained by integration over a period of at least 30s.

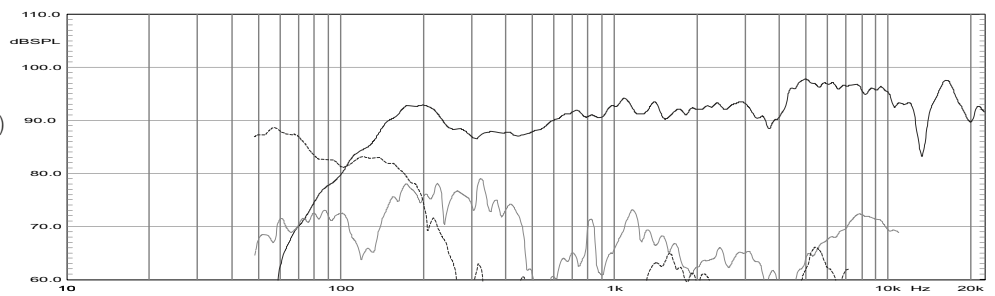
Frequency Response

Shows the frequency response at 4 m of a unit radiating to an anechoic environment (4p) and driven by a 1 W (2.45 V) swept sine signal, and impedance curve. For better detail, only light smoothing (1/12th Octave) has been used.



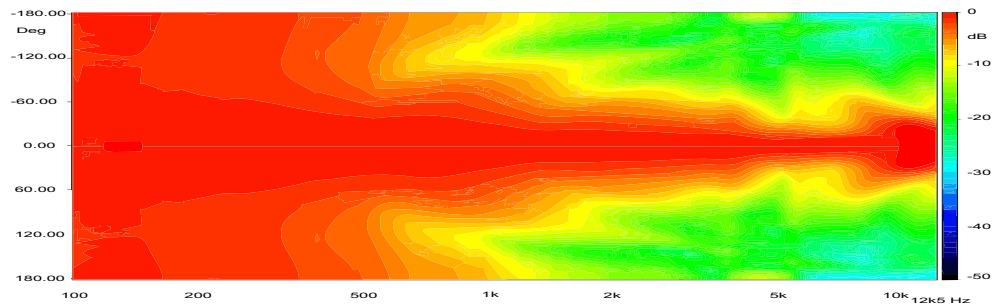
Distortion

Shows the Second Harmonic Distortion (grey) and Third Harmonic Distortion (dotted) curves (rised 20 dB for clarity) for a unit driven at 10% of its RMS Power Handling.



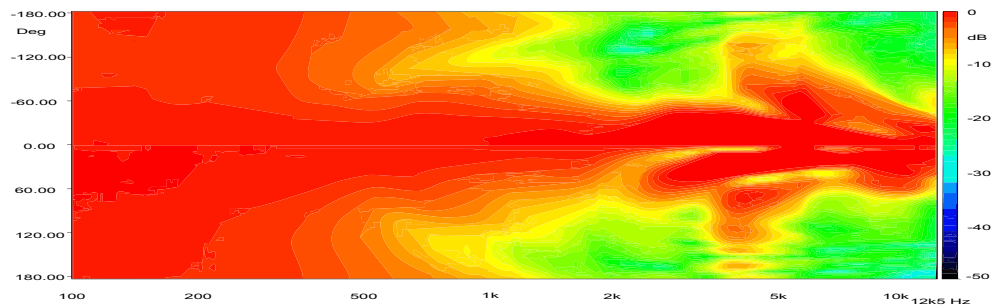
Directivity

Shows normalized horizontal isobar plot.



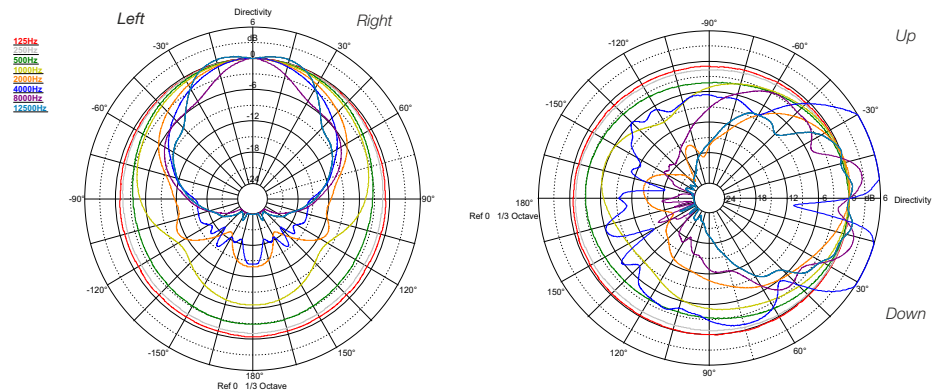
Directivity

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 m³ (10594 ft³) anechoic chamber. Measurement distance is 4m (13.12ft).

Reference Axis: Axis is on the centre of the grille surface and perpendicular to the grille surface.
Reference plane: Plane is on the grille surface and perpendicular to the reference axis.
Horizontal plane: Plane is containing the reference axis and perpendicular to the reference plane

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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