

## aero 8A

Powered, bi-amplified  
ultra compact line array module



- » **Bi-amplified 2-way system**
- » **250 W low frequency 3rd Generation Class D power amplifier**
- » **100 W high frequency 3rd Generation Class D power amplifier**
- » **8" neodymium speaker**
- » **2" diaphragm neodymium compression driver**

The Aero 8A is designed for use as a multi-box array in small-sized live events where rapid deployment, precise coverage and high power are required.

The easily portable and rugged enclosure is manufactured using Birch plywood and finished with a durable black paint. The Aero 8A's trapezoidal shape and rear located splay angle adjusters keep the front spacing between adjacent elements the same, providing the array with a "seamless" front baffle, for improved array performance. The captive rigging system splay angles range from 0° to 10° in increments of 1° allowing a wide range of column curvatures to be accomplished. The loudspeaker components of the Aero 8A include a 8MN, 8" cone transducer and one M-60N neodymium

compression driver with 2" titanium diaphragm. The driver is attached to a BPS-191 aluminium waveguide-horn assembly.

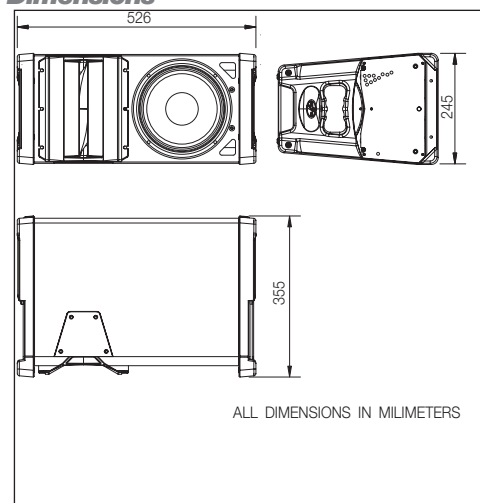
The two-way 3rd Generation Class D amplifier offers 250 W for the low frequency transducer and 100 W for the high frequency section. The amplifier provides extended bandwidth, improved dynamic range and exceptionally low distortion.

Signal processing is accomplished by way of a powerful 24 bit DSP providing unparalleled control over critical signal parameters.

### Technical Specifications

<b>Low Frequency Power Amplifier<sup>1</sup></b>	500 W <sub>peak</sub> - 250 W <sub>continuous</sub>
<b>High Frequency Power Amplifier<sup>1</sup></b>	200 W <sub>peak</sub> - 100 W <sub>continuous</sub>
<b>Input Type</b>	Balanced Differential Line
<b>Input Impedance</b>	Line: 20 kohms
<b>Sensitivity</b>	Line: 1.95 V (+8 dBu)
<b>On-axis Frequency Range (-10 dB)</b>	95 Hz - 20 kHz
<b>Maximum Peak SPL at 1 meter<sup>2</sup></b>	128 dB
<b>Nominal -6 dB Beamwidths</b>	90° Horizontal Splay Dependent Vertical
<b>Enclosure Material</b>	Birch Plywood
<b>Finish</b>	Black Paint
<b>Transducers/Replacement Parts</b>	LF: 1 x 8MN/GM 8MN HF: 1 x M-60N/GM M-60
<b>Connectors</b>	INPUT: Female XLR LOOP THRU: Male XLR AC INPUT: PowerCon NAC 3 FCA AC OUTPUT: PowerCon NAC 3 DFCB
<b>AC Power Requirements</b>	115 V, 2 A, 50 Hz/60 Hz 230 V, 1 A, 50 Hz/60 Hz
<b>Dimensions (H x W x D)</b>	24.5 x 52.6 x 35.5 cm (9.6 x 20.7 x 14 in)
<b>Weight</b>	18 kg (39.6 lb)
<b>Accessories (optional)</b>	AX-aero8 Rigging Grid AX-LX-212 Rigging Grid AXS-aero8 Stacking Base Pick-up AX-LX212 Pick-up 8212

### Dimensions

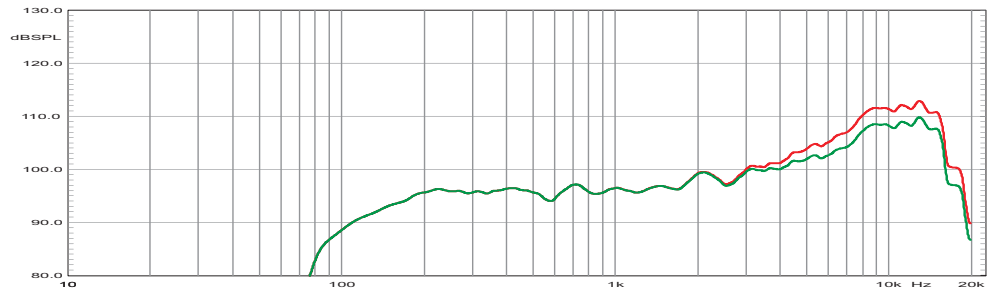


ALL DIMENSIONS IN MILLIMETERS

1. Continuous power at driver impedance.  
2. Measured maximum peak level.

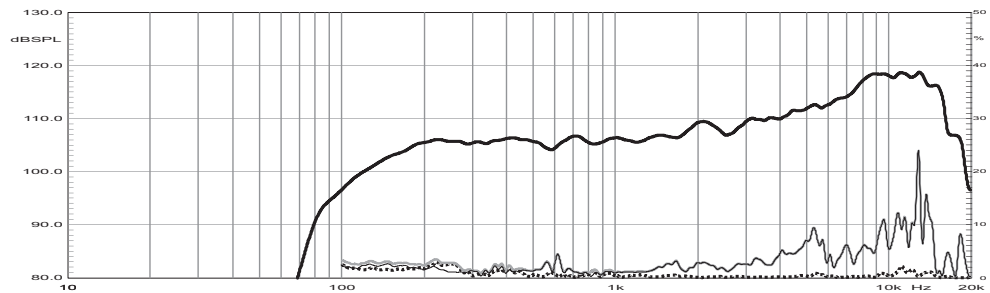
**Frequency Response**

Shows the frequency response at 1 m of a unit radiating to an anechoic environment and driven by a swept sine wave signal (-20 dBu input). Red (HF EQ. ON)



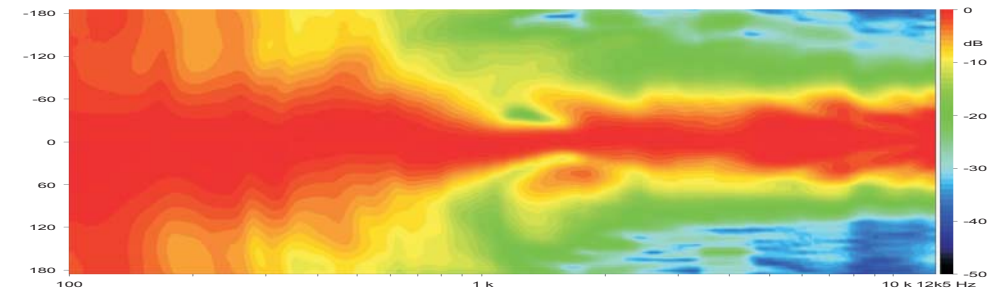
**Distortion**

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



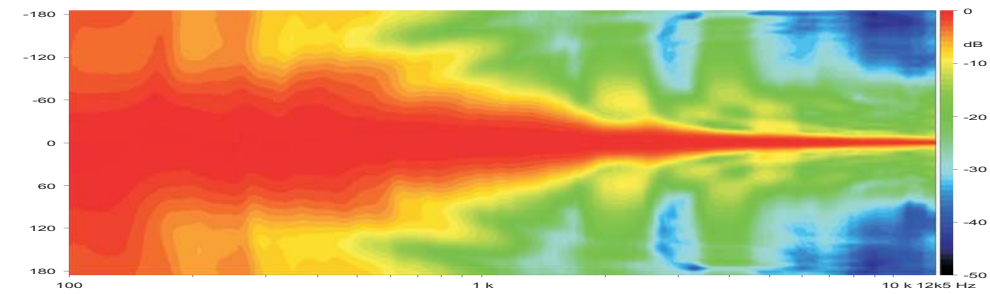
**Horizontal Directivity**

Shows normalized horizontal isobar plot.



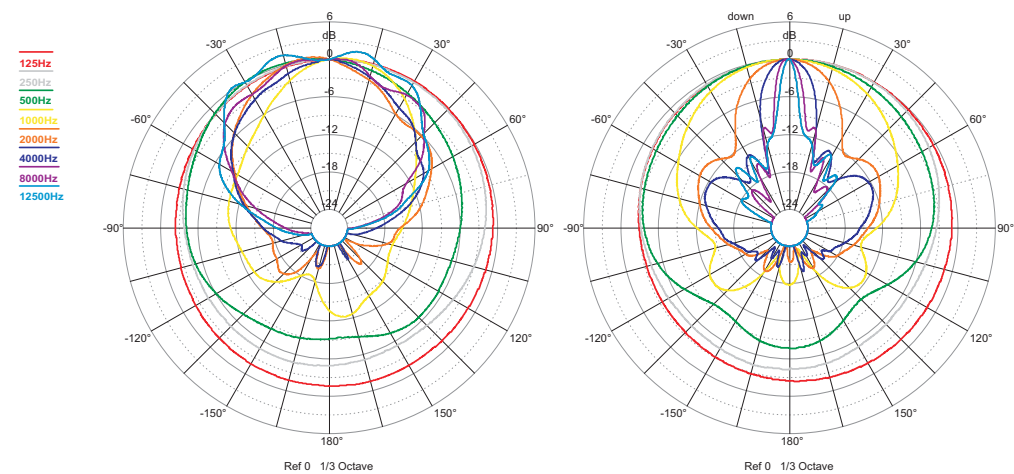
**Vertical Directivity**

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 30 dB, 6 dB per division.



NOTES. 1.Frequency response: referred to 1 m; low end obtained through the use of near field techniques; one-third octave smoothed for correlation with human hearing. 5.Polars were acquired by placing the unit on a computer controlled turntable inside our anechoic chamber. Measurement distance was 4 m.

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