# aero 12A

**Powered, bi-amplified ultra compact line array module**

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

The Aero 12A is designed for use as a multi-box array in mid-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 12A's trapezoidal shape and rear located splay angle adjusters keep the front spacing between adjacemet elements the same, providing the array with a "seamless" front baffle, for improved array perfomance. The captive rigging system splay angles range from 0° to 10° in increments of 0.5° from 0° to 3° and increments of 1° from 3° to 10° allowing a wide range of column curvatures to be accomplished.

The loudspeaker components of the Aero 12A include a 12LN4C, 12" cone transducer and one M-75N neodymium compression driver with 3" titanium diaphragm. The driver is attached to a BPS-9010 aluminium waveguide-horn assembly.

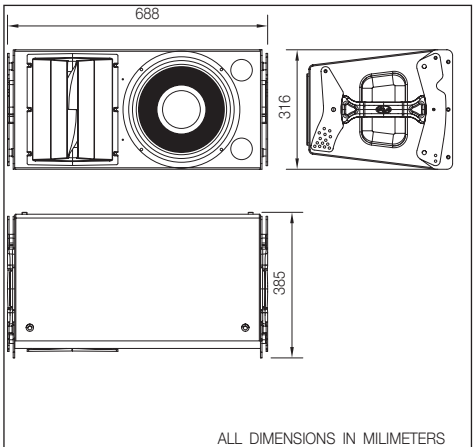
The two-way 3rd Generation Class D amplifier offers 500 W for the low frequency transducer and 100 W for the high frequency section. The amplifier provides extended bandwidth, improved dynamic range and exceptionally low distortion.

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

## Technical Specifications

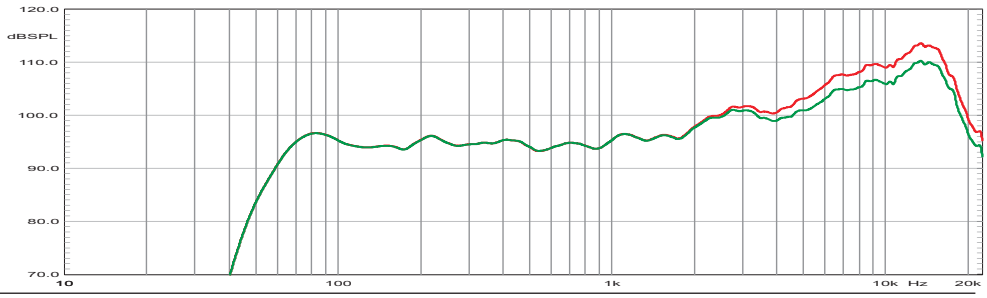
| | |
|---|---|
| **Low Frequency Power Amplifier** | 1000 $W_{peak}$ - 500 $W_{continuous}$ |
| **High Frequency Power Amplifier** | 200 $W_{peak}$ - 100 $W_{continuous}$ |
| **Input Type** | Balanced Differential Line |
| **Input Impedance** | Line: 20 kohms |
| **Sensitivity** | Line: 1.95 V (+8 dBu) |
| **On-axis Frequency Range (-10 dB)** | 63 Hz - 20 kHz |
| **Maximum Peak SPL at 1 meter** | 134 dB |
| **Nominal -6 dB Beamwidths** | 90° Horizontal |
| | Splay Dependent Vertical |
| **Enclosure Material** | Birch Plywood |
| **Finish** | Black Paint |
| **Transducers/Replacement Parts** | LF: 1 x 12LNC4/GM 12P4 |
| | HF: 1 x M-75N/GM M-75N |
| **Connectors** | INPUT: Female XLR |
| | LOOP THRU: Male XLR |
| | AC INPUT: PowerCon NAC 3 FCA |
| | AC OUTPUT: PowerCon NAC 3 DFCB |
| **AC Power Requirements** | 115 V, 50 Hz/60 Hz |
| | 230 V, 50 Hz/60 Hz |
| **Dimensions (H x W x D)** | 31.6 x 68.8 x 38.5 cm |
| | (12.4 x 27 x 15.2 in) |
| **Weight** | 27 kg (59.4 lb) |
| **Accessories (optional)** | AX-aero12 Rigging Grid |
| | AX-Combo12 Rigging Adapter |
| | KITGS-AX-aero12 |
| | PL-12S Steel Stacking Dolly |

## Dimensions



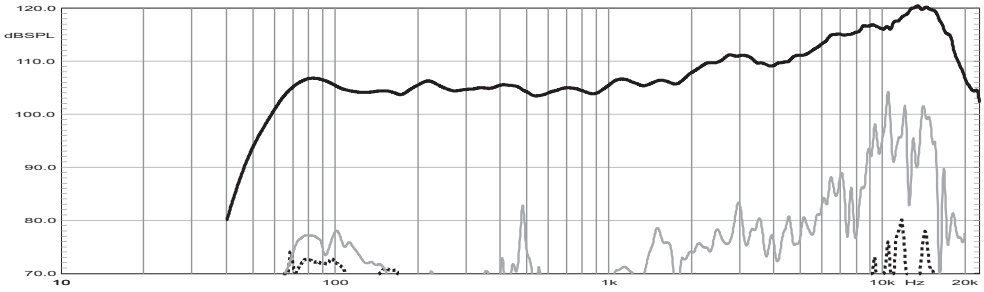
**Frequency Response**

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 )



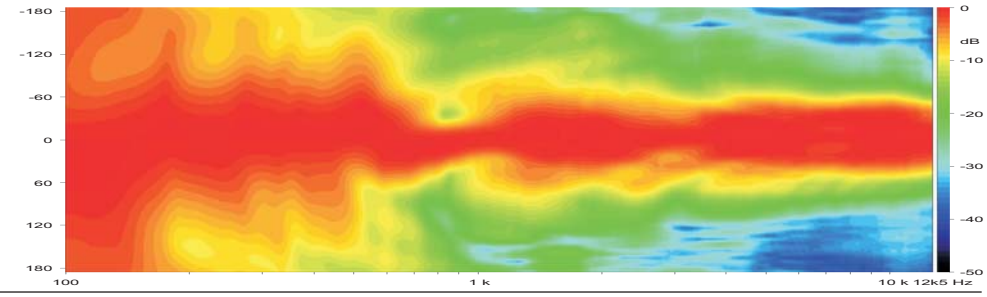

**Distortion**

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



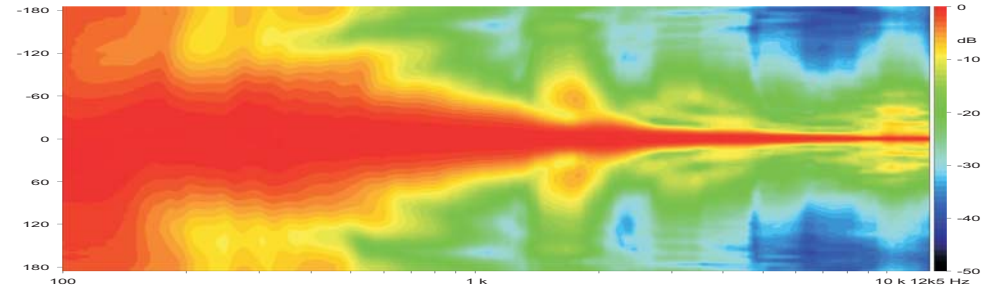

**Horizontal Directivity**

Shows normalized horizontal isobar plot.



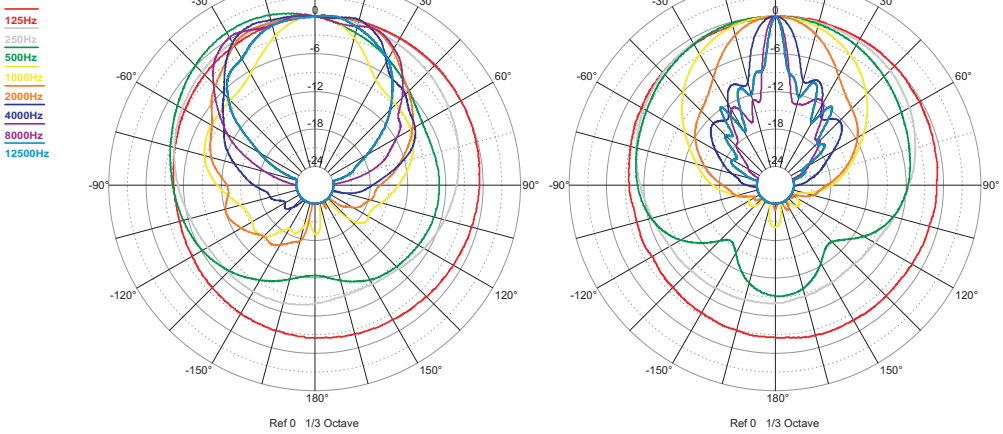

**Vertical Directivity**

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.*

**D.A.S. Audio S.A.**
C/ Islas Baleares, 24
46988 Fuente del Jarro
Valencia - SPAIN
Tel. 961 340 525 - Tel. Intl. +34 961 340 860
Fax 961 340 607 - Fax Intl. +34 961 340 607

**D.A.S. Audio of America Inc.**
Sunset Palmetto Park - 6816 NW 77th Court
Miami, FL. 33166 U.S.A.
Tel. 305 436 0521 - Fax. 305 436 0528
Toll Free: 1 888 DAS 4 USA

**D.A.S. Audio Asia Pte. Ltd.**
25 Kaki Bukit Crescent # 01-00/ 02-00
Kaki Bukit Techpark I - Singapore 416256
Co. Reg. No. 200704134E
Tel. +65 6742 0151 - Fax. +65 6742 0157

***www.dasaudio.com***