Variant 25A

Variant series

Introduction

The Variant 25A is a powered, bi-amplified ultra-compact line array module.

Description

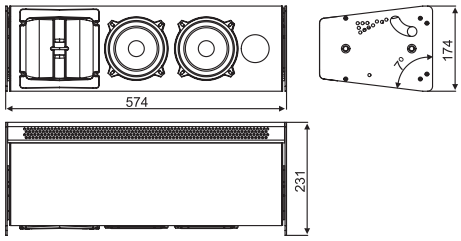
The Variant 25A is designed for use as a multi-box array in small to mid-sized installations, as a fill unit for front and under-balcony fills, or combined with other D.A.S. line array systems.
The lightweight and visually discrete 7.5º trapezoidal enclosure incorporates an aluminum and steel frame which is attached to the box and includes the captive rigging hardware needed to join one box to another.
The Variant 25A splay angles range from 0º to 10º in increments of 1º allowing a wide range of column curvatures to be accomplished.
The loudspeaker components of the Variant 25A include two 5B, 5" cone transducers and one M-5N neodymium compression driver with 2" titanium diaphragm.
This high efficiency, low distortion unit is coupled to a SERPIS-25 high frequency plane wave generator and offers reliability, high output and wide dynamic range. Smooth response in the midrange is guaranteed by way of a complex crossover design which eliminates interference between the two drivers maintaining polar and frequency response characteristics.
The array correction switch can be used to provide a 3 dB step high frequency eq to compensate for the low frequency build-up when using Variant cabinets in an array or to adjust the the short-mid or long throw of the cabinets.
Power for the Variant 25A is provided by a twin channel class AB amplifier. The unit offers 250 W for the low frequency transducers and 150 W for the high frequency section.

Features

- **Biamplified 2-way system**
- **125 W low frequency power amplifier**
- **75 W high frequency power amplifier**
- **2 x 5" speakers**
- **2" diaphragm compression driver**

Specifications

Low Frequency Power Amplifier:	250 W_{peak} - 125 $W_{continuous}$
High Frequency Power Amplifier:	150 W_{peak} - 75 $W_{continuous}$
Input Type:	Balanced Differential
Input Impedance:	Line: 20 kΩ
Sensitivity:	Line: 1.54 V (+6 dBu)
On-axis Frequency Range (-10 dB):	75 Hz - 17 kHz
Maximum Peak SPL at 1 meter:	120 dB
Nominal -6 dB Beamwidths:	90º Horizontal Splay dependent Vertical
Enclosure Material:	Wisa® Birch Plywood
Finish:	Black or White Paint
Transducers/Replacement Parts:	LF: 2 x 5B/5B HF: M-5N/GM M-5
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):	17.4x57.4x23.1 cm (6.9x22.6x9 in)
Weight:	18 kg (39.6 lb)
Accessories (optional):	AX-V25 (Black)/AX-V25W (White) AXW-V25 (Black)/AXW-V25W (White) AXC-V25 (Black)/AXC-V25W (White)



ALL DIMENSIONS IN MILIMETERS

Product improvement through research and development is an ongoing process at D.A.S. All specifications are subject to change without notice.

D.A.S. SOUND PRODUCTS

VARIANT-25A

FREQUENCY RESPONSE

Figure 1 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).

DISTORTION

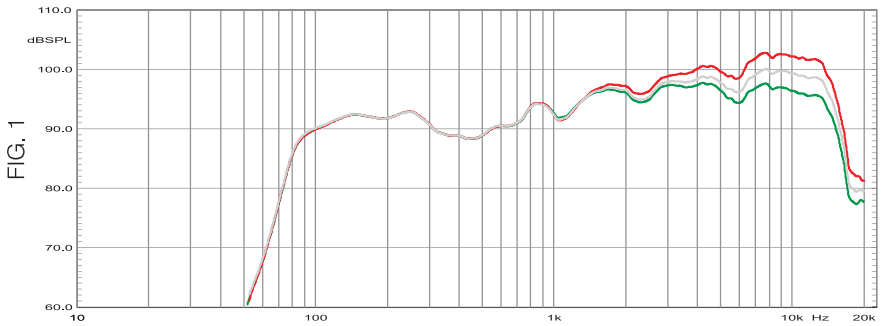
Figure 2 shows the Second Harmonic Distortion (grey) and Third Harmonic Distortion (dotted) curves for a unit driven by a swept sine wave signal (-10 dBu input).

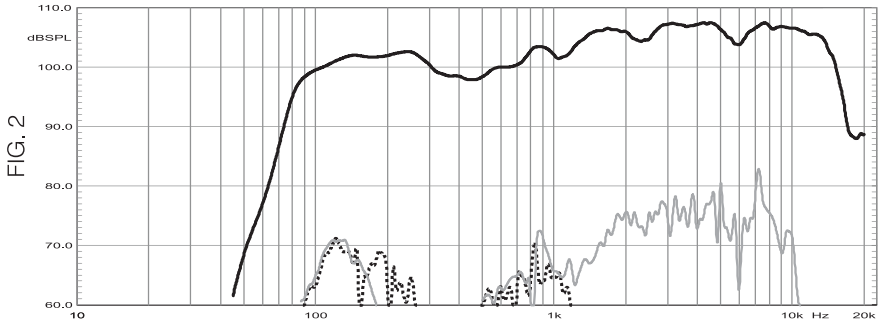
DIRECTIVITY

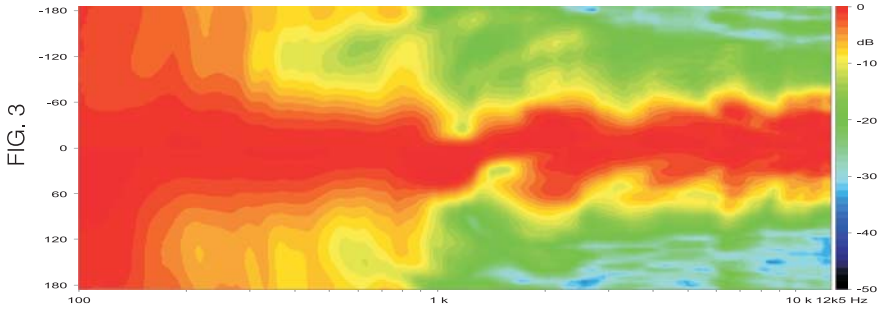
Figure 3 shows normalized horizontal isobar plot.
Figure 4 shows normalized vertical isobar plot.

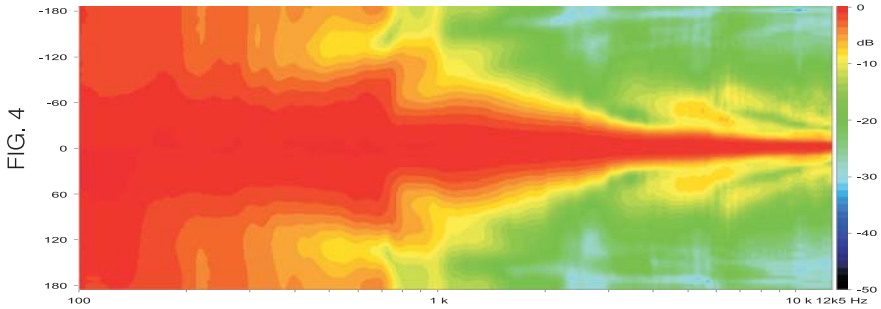
POLAR RESPONSE

Figure 5 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.

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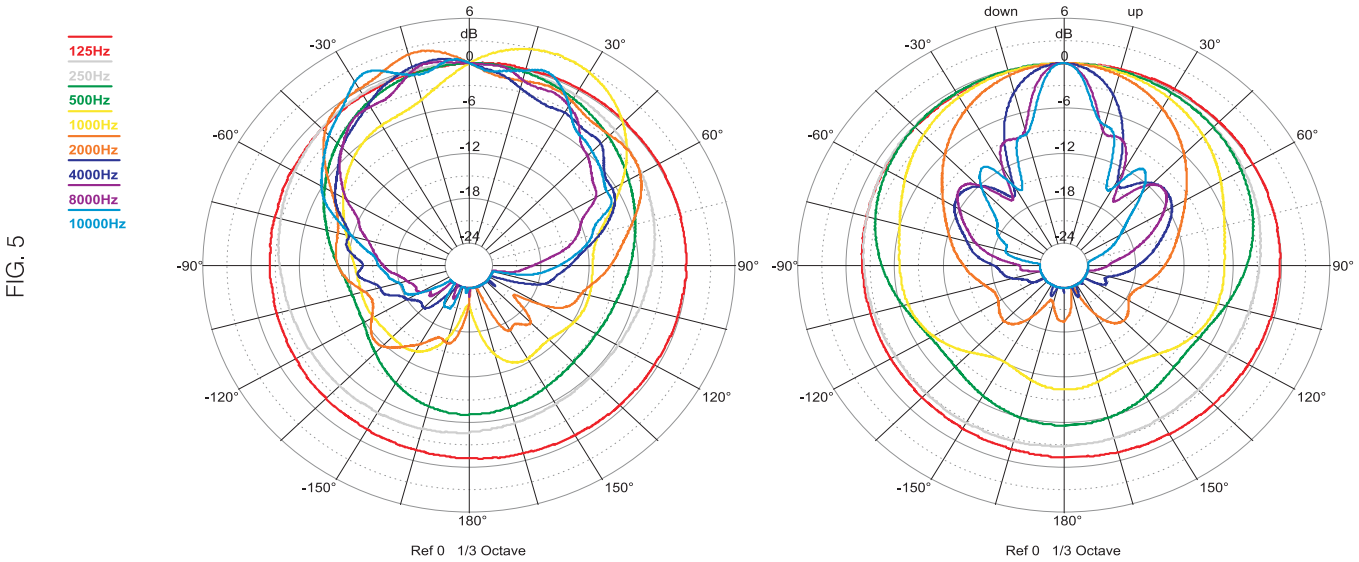

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