Variant 112A

Variant series

Introduction

The Variant 112A is a powered, bi-amplified ultra-compact constant curvature line array module.

Description

The Variant 112A is designed for use as a multi-box array in small to mid-sized installations where wide vertical dispersion and high power are required.

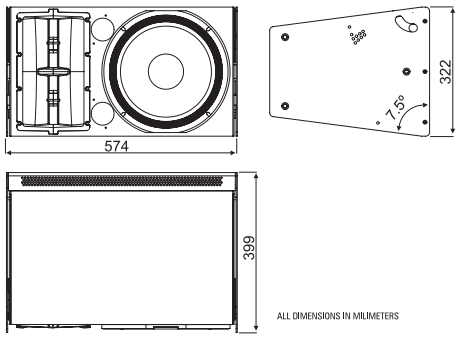
The lightweight and visually discrete 7.5º trapezoidal enclosure incorporates an aluminum and steel frame which is attached to the box and includes the captive rigging hardware needed to join one box to another.
The Variant 112A splay angles range from 12º to 15º in increments of 1º allowing wide vertical dispersion with fewer units.
The loudspeaker components of the Variant 112A include a 12V4, 12" cone transducers and two M-50N neodymium compression driver with 2" titanium diaphragm.
These high efficiency, low distortion units are coupled to a constant curvature wave guide and offer reliability, high output and wide dynamic range.
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 short-mid or long throw of the cabinets.
The unit offers 500 W Class D for the low frequency transducers and 100 W for the high frequency section.

FEATURES

- » Biamplified 2-way system
- » 500 W low frequency class D power amplifier
- » 100 W high frequency power amplifier
- » 12" speaker
- » 2 x 2" diaphragm compression driver

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
Input Impedance:	Line: 20 kΩ
Sensitivity:	Line: 1.54 V (+6 dBu)
On-axis Frequency Range (-10 dB):	63 Hz - 18 kHz
Maximum Peak SPL at 1 meter:	128 dB
Nominal -6 dB Beamwidths:	90º Horizontal 15º Vertical
Enclosure Material:	Wisa® Birch Plywood
Finish:	Black or White Paint
Transducers/Replacement Parts:	LF: 12V4/GM 12P4 HF: 2 x M-50N/GM M-50
Connectors:	INPUT: Female XLR LOOP THRU: Male XLR AC INPUT: PowerCon NAC 3 FCA AC OUTPUT: PowerCon NAC 3 DFCB
AC Power Requirements:	120 V, 50 Hz/60 Hz 230 V, 50 Hz/60 Hz
Dimensions (H x W x D):	32.2x57.4x39.9 cm (12.7x22.6x15.7 in)
Weight:	35 kg (77 lb)
Accessories (optional):	AX-V25 (Black)/AX-V25W (White) AXC-V112 (Black) AXC-V112W (White)



D.A.S. SOUND PRODUCTS

VARIANT-112A

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.

FIG. 1

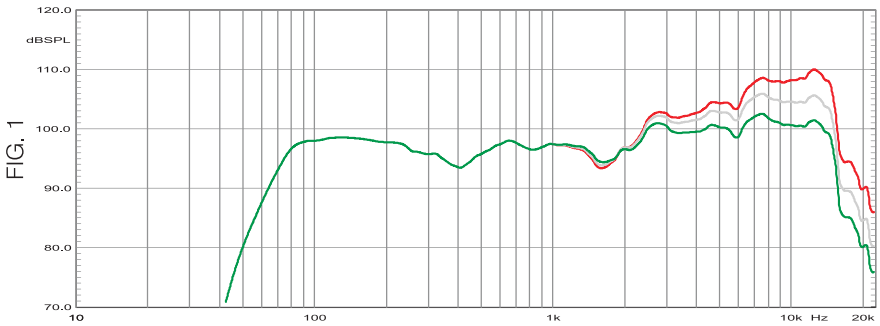


FIG. 2

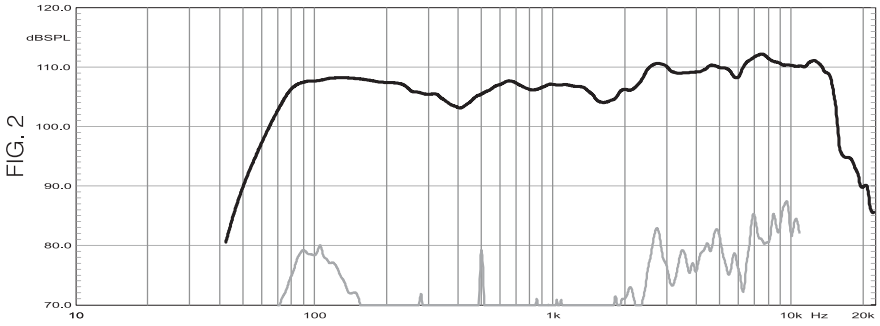


FIG. 3

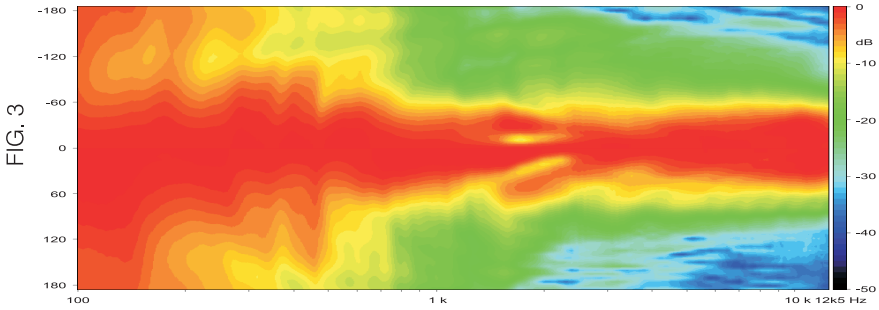
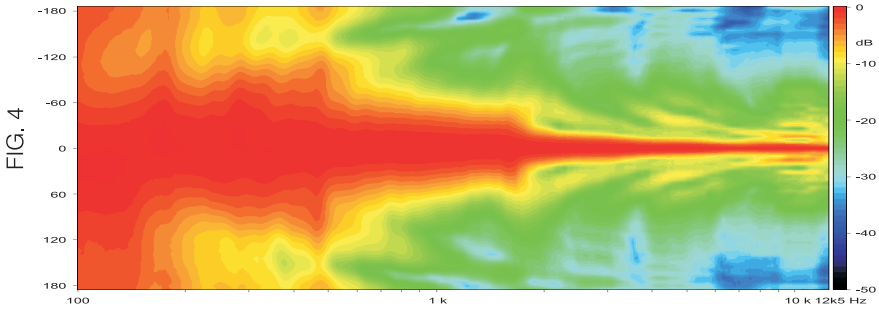


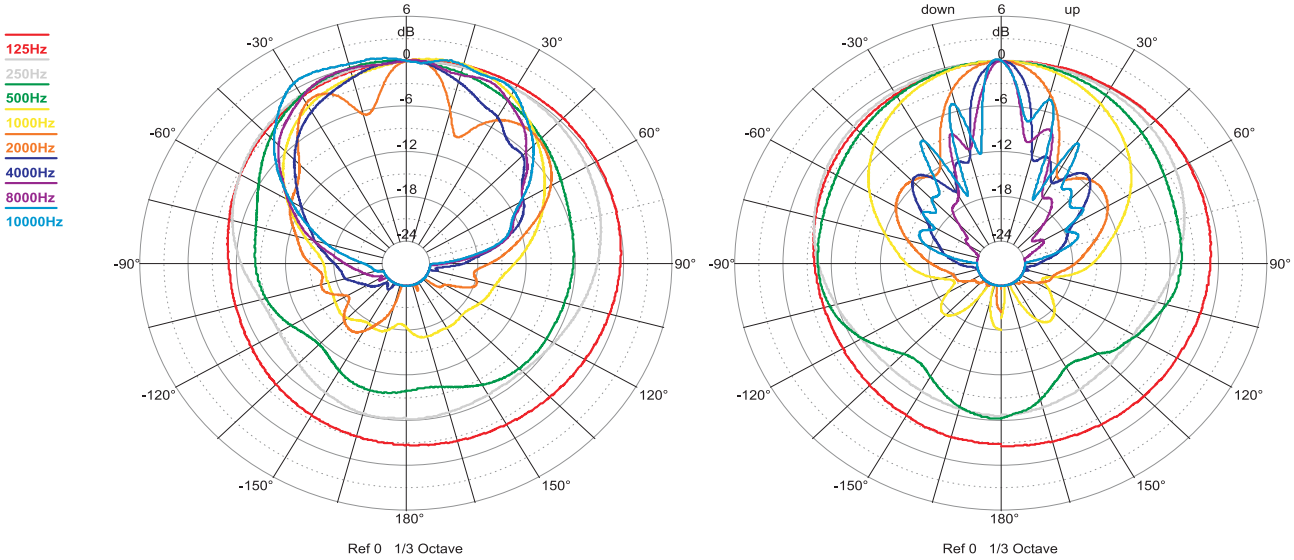
FIG. 4



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.

FIG. 5



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