

SM-15A

Stage monitor series



FEATURES

- » Bi-amplified 2-way system
- » 500 W class D low frequency power amplifier
- » 100 W high frequency power amplifier
- » 15" speaker
- » 3" diaphragm Neodymium compression driver

SPECIFICATIONS

Low Frequency Power Amplifier ^R :	500 W _{RMS}
High Frequency Power Amplifier ^R :	100 W _{RMS}
Input Type:	Balanced Differential
Input Impedance:	Line: 20 k Ω
Sensitivity:	Line: 1.23 V (+4 dBu)
On-axis Frequency Range:	45 Hz - 17 kHz
Maximum Peak SPL at 1 meter:	133 dB
Nominal -6 dB Beamwidths:	90° Horizontal 60° Vertical
Enclosure Material:	Wisa® Birch Plywood
Finish:	Black Polyurethane Paint
Transducers/Replacement Parts:	LF: 15 L/GM 15P HF: M-10N/GM M-10
Connectors:	INPUT: Female XLR LOOP THRU: Male XLR AC INPUT: PowerCon NAC 3
AC Power Requirements:	115 V, 50 Hz/60 Hz 230 V, 50 Hz/60 Hz
Dimensions (H x W x D):	53x45x67 cm (20.9x17.7x26.4 in)
Weight:	31.5 kg (69.3 lbs)

^R 4 ohm load @ 1% THD.

INTRODUCTION

The D.A.S. SM-15A is high efficiency 2-way vented stage monitor.

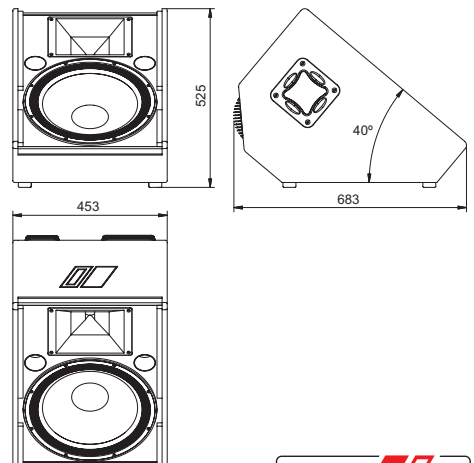
DESCRIPTION

The low frequency section utilizes a high efficiency 15" low frequency speaker with a 3" voice coil using a combination of pole piece and direct convection cooling to provide high power handling and low power compression.

The high frequency section makes use of a Neodymium magnet 1.5" exit compression driver with 3" titanium diaphragm, with a wide coverage horn.

The system incorporates a 500 W class D switching amplifier for the low-frequency section and a 100W class AB amplifier for the high frequency driver.

The enclosure is manufactured from Wisa® Birch plywood and is finished with a durable polyurethane paint. The unit has a fabric covered steel grille to protect the loudspeaker components. The covering is resistant to wear and tear, provides protection from dust and dirt, and is both acoustically transparent and flame retardant.



FREQUENCY RESPONSE

Figure 1 shows the frequency response at 1 m of a unit radiating to a half space anechoic environment and driven by a swept sine wave signal (-19 dBu input).

DISTORTION

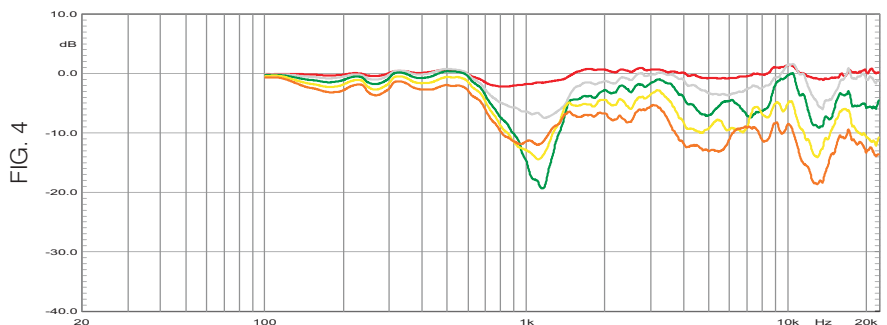
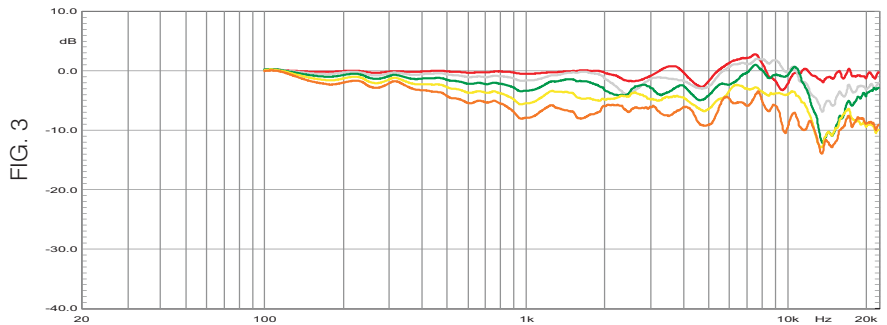
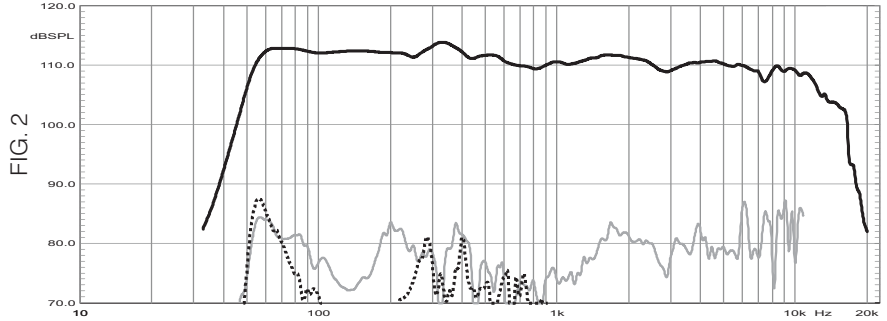
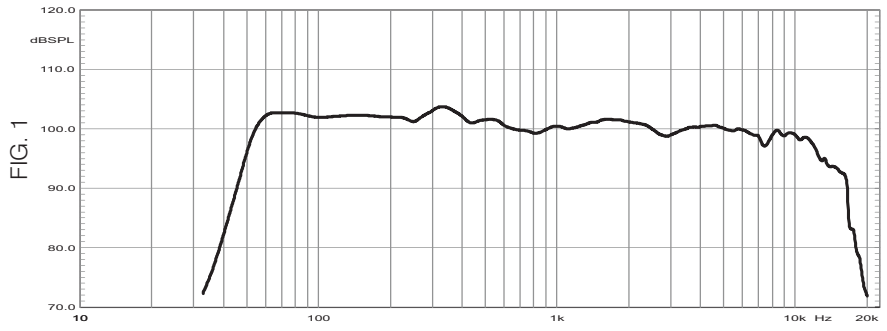
Figure 2 shows the Second Harmonic Distortion (grey) and Third Harmonic Distortion (dotted) curves for a unit driven by a swept sine wave signal (-9 dBu input).

OFF AXIS FREQUENCY RESPONSE

Figure 3 shows normalized horizontal off axis frequency response. 10° steps. Figure 4 shows normalized vertical down off axis frequency response. 10° steps.

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.

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

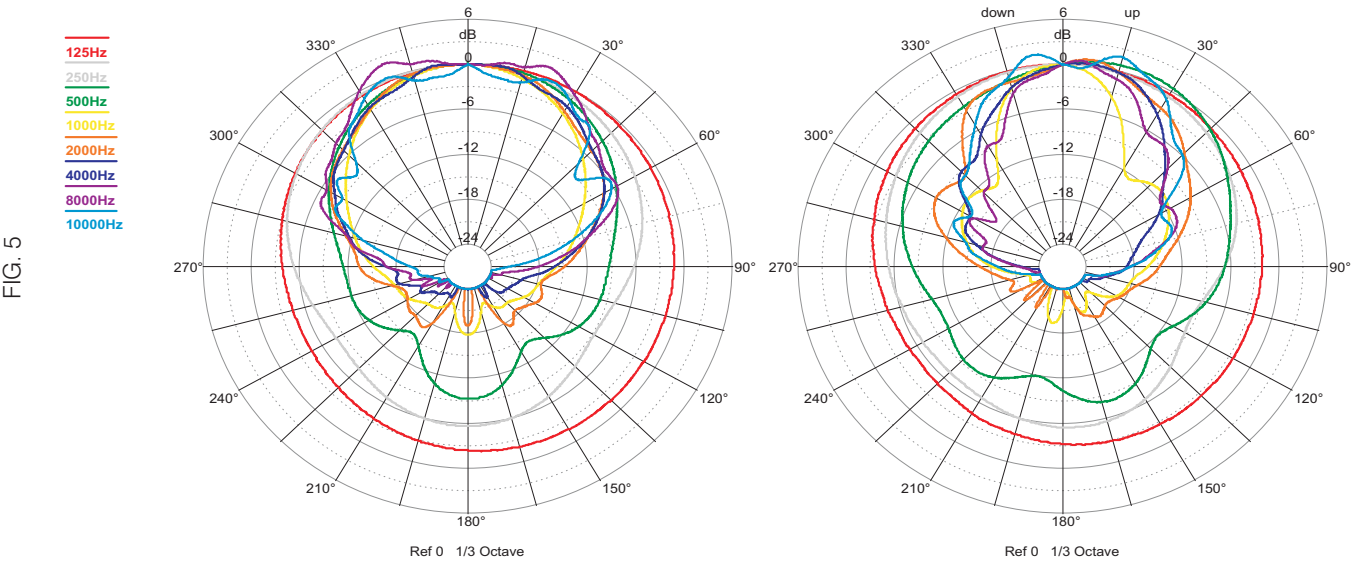


FIG. 5

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