

# SML-12A

## Stage monitor series



### FEATURES

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

### SPECIFICATIONS

Low Frequency Power Amplifier <sup>R</sup> :	500 W <sub>RMS</sub>
High Frequency Power Amplifier <sup>R</sup> :	100 W <sub>RMS</sub>
Input Type:	Balanced Differential
Input Impedance:	Line: 20 kΩ
Sensitivity:	Line: 1.23 V (+4 dBu)
On-axis Frequency Range:	60 Hz - 17 kHz
Maximum Peak SPL at 1 meter:	133 dB
Nominal -6 dB Beamwidths:	50° Horizontal 50° Vertical
Enclosure Material:	Wisa® Birch Plywood
Finish:	Black Polyurethane Paint
Transducers/Replacement Parts:	LF: 12 LN/GM 12P 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):	58.3x39x31.5 cm (23x15.4x12.5 in)
Weight:	23 kg (50.6 lbs)
Accessories (optional):	TRD-2, TRD-3, ANL-2, AX-TRUSS, AX-L

### INTRODUCTION

The D.A.S. SML-12A is a low profile high efficiency 2-way vented stage monitor and multi-purpose system.

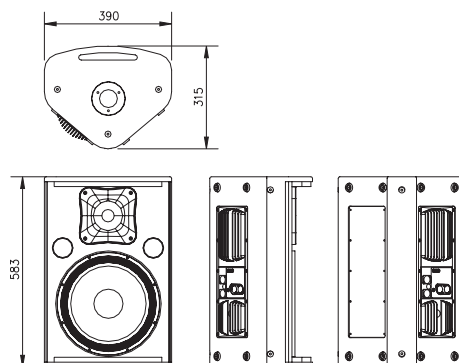
### DESCRIPTION

The low frequency section utilizes a high efficiency Neodymium magnet 12" low frequency speaker with a 3" voice coil using a combination of pole piece, side slot 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 narrow coverage horn.

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.

The multiangle design permits use as a standard box or left-right floor monitor for coherent summing of speakers pairs on stage. An integral 35 mm socket can be used for tripod mounting. SML-12A feature 6 "L" shaped internal metal hardware pieces, each one including 2 M10 nuts, thus providing a total of 12 rigging points.



ALL DIMENSIONS IN MILLIMETERS

<sup>R</sup> 4 ohm load @ 1% THD.

## SML-12A

### 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

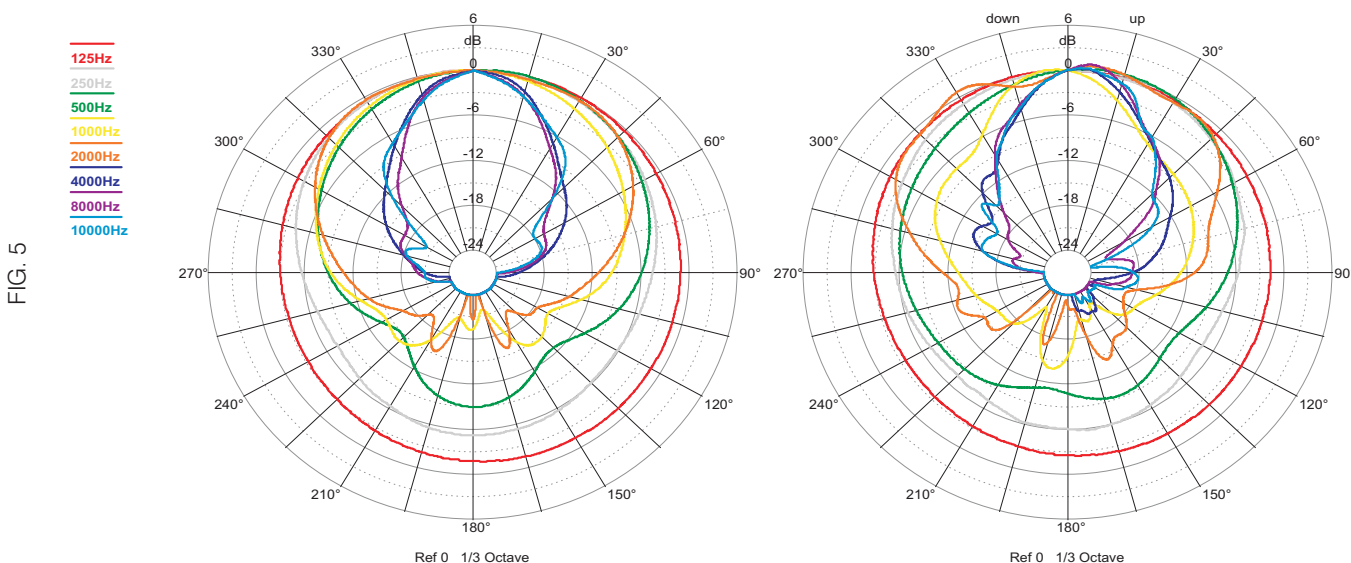
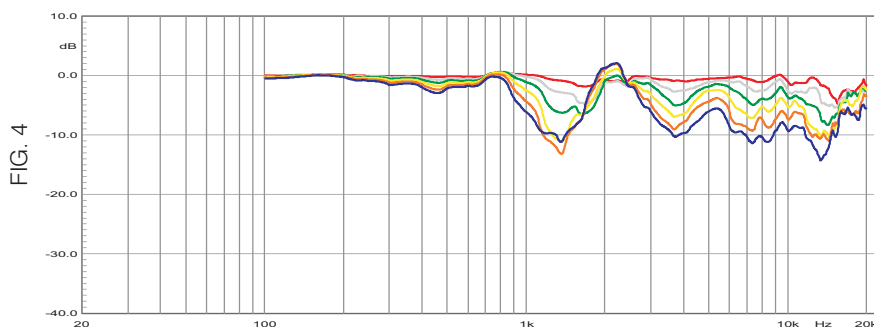
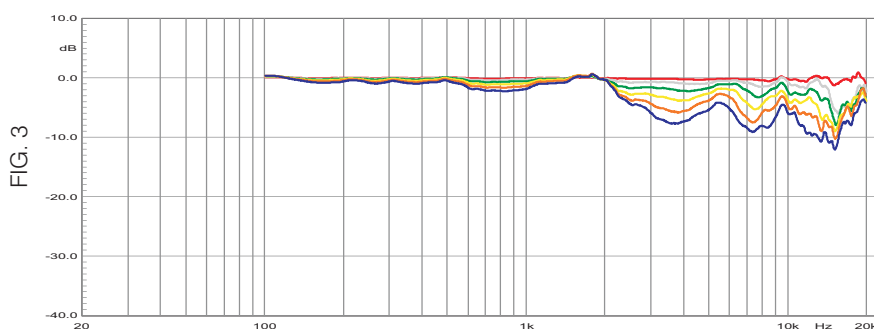
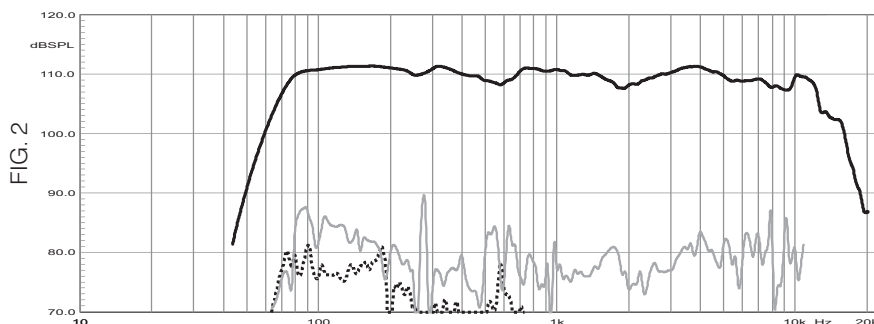
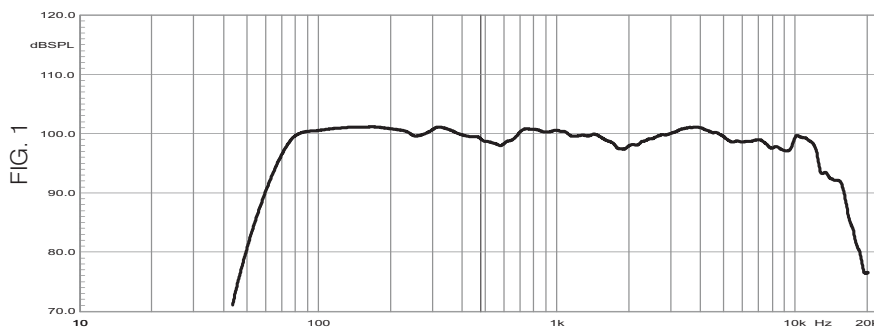
Figure 3 shows normalized horizontal off axis frequency response. 5° steps. Figure 4 shows normalized vertical down off axis frequency response. 5° steps.

### 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.



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