

SML-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" Neodymium 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 kΩ
Sensitivity:	Line: 1.23 V (+4 dBu)
On-axis Frequency Range:	55 Hz - 18 kHz
Maximum Peak SPL at 1 meter:	133 dB
Nominal -6 dB Beamwidths:	60° Horizontal 40° Vertical Rotable
Enclosure Material:	Birch Plywood
Finish:	Black Polyurethane Paint
Transducers/Replacement Parts:	LF: 15 LN/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):	71.6x46x35.2 cm (28.2x18x13.9 in)
Weight:	28.5 kg (62.7 lbs)
Accessories (optional):	TRD-2, TRD-4, ANL-2, AX-TRUSS, AX-L

^R 4 ohm load @ 1% THD.

INTRODUCTION

The D.A.S. SML-15A is a low profile high efficiency 2-way vented stage monitor and multi-purpose system.

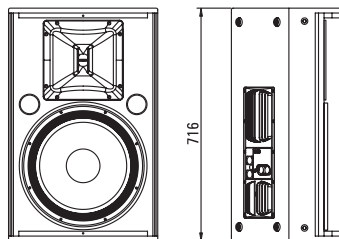
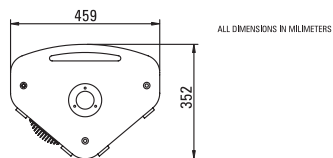
DESCRIPTION

The low frequency section utilizes a high efficiency Neodymium magnet 15" 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 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-15A feature 6 "L" shaped internal metal hardware pieces, each one including 2 M10 nuts, thus providing a total of 12 rigging points.



SML-15A

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

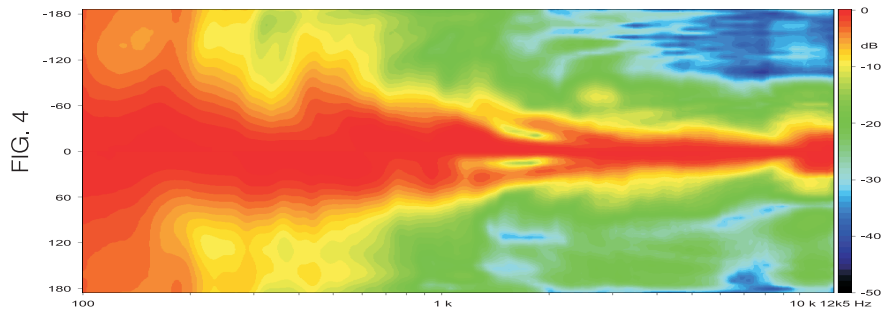
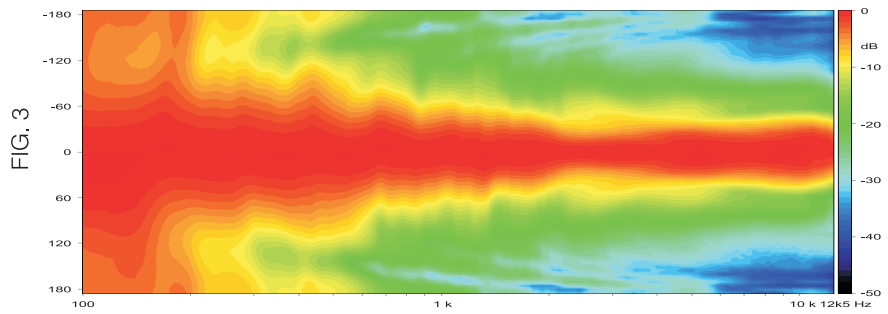
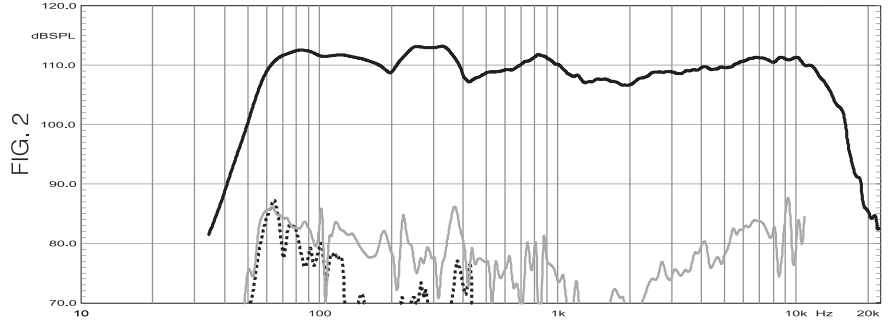
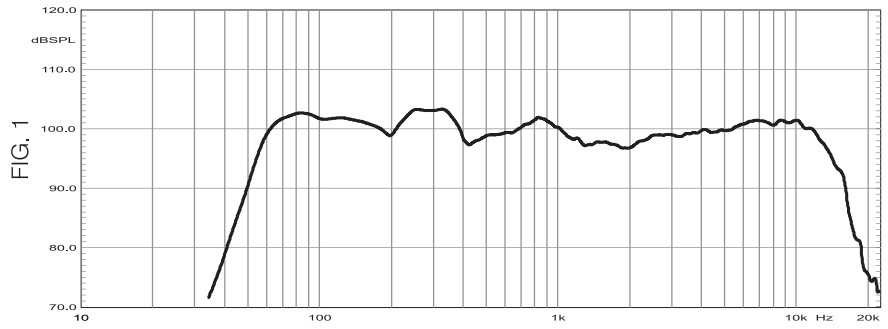
Figure 2 shows the Second Harmonic Distortion (grey) and Third Harmonic Distortion (dotted) curves for a unit driven by a swept sine wave signal (-10 dBu input).

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.

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

