

SML-15

Stage monitor series



FEATURES

- » 2-way vented loudspeaker system
- » 15" cone speaker
- » 1.5" compression driver with constant directivity horn
- » 400 W power handling

SPECIFICATIONS

RMS (Average) Power Handling^R:	Passive: 400 W LF: 400 W HF: 160 W
Program Power Handling^P:	Passive: 800 W LF: 800 W HF: 320 W
Peak Power Handling^K:	Passive: 1600 W LF: 1600 W HF: 640 W
On-axis Frequency Range:	60 Hz - 18 kHz
Nominal Impedance:	Passive: 8 Ω; LF: 8 Ω; HF: 8 Ω
Minimum Impedance:	LF: 7.6 Ω (35 Hz); HF: 6.1 Ω (17 kHz)
On-axis Sensitivity 1W / 1 m:	99 dB SPL
Rated Peak SPL at Full Power:	133 dB
Nominal -6 dB Beamwidths:	60° Horizontal x 40° Vertical Rotable
Enclosure Material:	Plywood
Finish:	Black Paint
Transducers/Replacement Parts:	LF: 15 LN/GM 15P HF: M-10N/GM M-10
Connector:	2 paralleled NL4 Speakon, wired to ±1
Dimensions (H x W x D):	71.6 x 46 x 35.2 cm 28.2 x 18 x 13.9 in
Weight:	22 kg (48.4 lb)
Accessories (optional):	ANL-2; AX-L; AX-Truss; TRD-2; TRD-4

INTRODUCTION

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

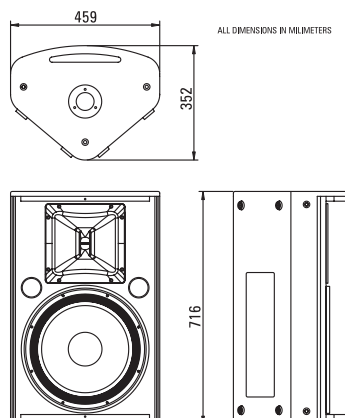
DESCRIPTION

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 end makes use of a 1.5" exit compression driver with 3" titanium diaphragm, coupled to a rotatable 60° x 40° 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-15 feature 6 "L" shaped internal metal hardware pieces, each one including 2 M10 nuts, thus providing a total of 12 rigging points.



^R Based on a 2 hour test using a 6 dB crest factor pink noise signal bandlimited according to IEC 268-1 (1985). All power ratings are referred to the nominal impedance.

^P Conventionally 3 dB higher than the RMS measure, although this already utilizes a program signal.

^K Corresponds to the signal crests for the test described in^R.



FREQUENCY RESPONSE

Figure 1 shows the frequency response at 1 m of a unit radiating to an anechoic environment and driven by a 1 W (2.83 V) swept sine signal, and impedance curves.

Low frequency (grey).
High frequency (dotted).

DISTORTION

Figure 2 shows the Second Harmonic Distortion (grey) and Third Harmonic Distortion (dotted) curves for a unit driven at 10% of its nominal power handling rating.

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.

All figures of Distorsion, Directivity and Polar Response are measured in passive mode.

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.

