The D.A.S. DS-108 is a versatile 2-way vented loudspeaker system.

**Applications**

Intended for use in small to medium scale fixed and portable sound reinforcement, musical instruments, clubs. Larger scale applications can benefit from its compact size and use them as auxiliary systems for applications such as underbalcony, frontfill and delayed fill type applications.

**Description**

The low end utilizes a high efficiency 8" low frequency speaker with 1.5" voice coil and a cast aluminium basket.

The high end makes use of a 1" exit compression driver with 2" titanium diaphragm, coupled to a constant directivity horn that is integral to the enclosure baffle.

Full use of high pressure injection moulding techniques has achieved a mineral loaded polypropylene cabinet of a very high density. Internal design provides extensive wall reinforcing for minimum vibration. An oversized handle facilitates carrying.

For added resistance, a rugged steel grille protects the low frequency transducer.

**Mounting**

Seven M8 rigging points are built into the enclosure, allowing for comprehensive flying and mounting options. A 35 mm socket is built-in for tripod use.

A range of optional accessories is available: mounting brackets, tripods and hanging rings provide flexible mounting options.

**SPECIFICATIONS**

**RMS (Average) Power Handling**: 150 W
**Program Power Handling**: 300 W
**Peak Power Handling**: 600 W
**On-axis Frequency Range**: 52 Hz - 25 kHz
**Nominal Impedance**: 8 Ω
**Minimum Impedance**: 6.1 Ω (at 250 Hz)
**On-axis Sensitivity 1W / 1m**: 93 dB SPL
**Rated Peak SPL at Full Power**: 121 dB
**HF Horn Coverage Angles**: 90° Horizontal x 45° Vertical (nominal)
**Average Beamwidths**:
(500 Hz to 8 kHz)
- 105° Horizontal
- 90° Vertical
**Speech Coverage Angles**:
- 110° Horizontal x 100° Vertical
**Enclosure Material**: High density mineral loaded polypropylene
**Colour**: Anthracite grey
**Transducers/Replacement Parts**: Low: 8B/8B
- High: M-3/GM M-5
**Connector**: 2 paralleled NL4 Speakon, wired to ±1
**Dimensions (H x W x D)**: 45 x 30 x 30 cm (18 x 12 x 12 in)
**Weight**: 9.4 kg (21.5 lbs)
**Shipping Weight**: 11 kg (24 lbs)
**Accessories (optional)**:
- TRD-2 adjustable tripod
- ANL-1, 4-piece M6 eyebolt/carabiner set
- AX-108, AX-M wall mounting brackets

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DS-108 is a 2-way vented loudspeaker system.

**FEATURES**

- 8" cone speaker
- 1" compression driver
- 150 W power handling
- Polypropylene enclosure
**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 1 W (2.83 V) swept sine signal.

**Impedance**
Figure 2 shows impedance with frequency.

**Distortion**
Figure 3 shows the Second Harmonic Distortion (grey) and Third Harmonic Distortion (dotted) curves for a unit driven at 10% of its nominal power handling rating.

**Beamwidth**
Figure 4 shows the -3, -6 and -10 dB horizontal (solid) and vertical (dashed) beamwidth with frequency curves. -6 dB ones are shown with thicker traces for clarity.

**Axial Directivity Q(θ) and DI**
Figure 5 shows the above characteristics with frequency. Thin continuous and dashed lines show partial horizontal and vertical, respectively, characteristics.

**Polar Response**
Figure 6 shows the one octave band horizontal (solid) and vertical (dashed) polars for the indicated frequencies. Full scale is 50 dB, 5 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. In practice, cable and connector impedance need to be added.
2. Harmonic distortion components are not plotted beyond 20 kHz; near-field techniques used. 4. Directivity characteristics plotted with respect to frequency are the average within the one-third octave bands of centre frequencies noted by the marks at the bottom of the graphs, but are joined up for display purposes. All other characteristics plotted vs. frequency use 1/4th octave resolution. Regions of less than 1 dB below goal level and sharp notches may be ignored when calculating beamwidths. 5. Directivity factor and index were computed from two degree resolution vertical and horizontal polars using sinusoidal weighting. 6. 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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**Technical Details**
C/ Isla Baterias, 24 - 46988 Fuente del Jarro - Valencia, Spain
Tel. 96 134 0525 - Tel. Intl. +34 96 134 0860 - Fax. 96 134 0607 - Fax. Intl. +34 96 134 0607
Sunset Palmetto Park 6816 NW 77th Court, Miami, FL 33166, U.S.A. Tel. 305 436 0521 - Fax. 305 436 0528