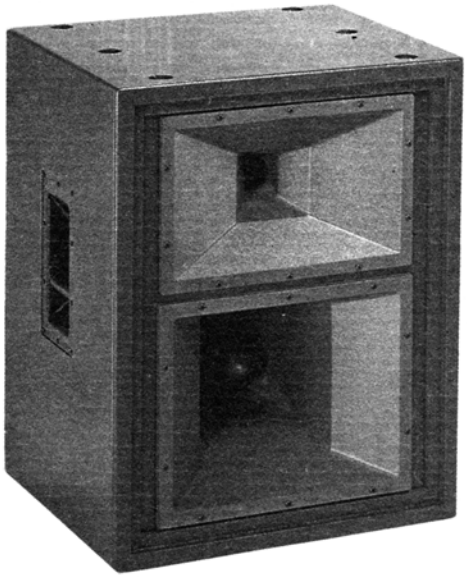


Special mid-high frequency unit MULTIDRIVER

DESCRIPTION

The D.A.S. Multidriver system is a combination of our mid range Bullet which is powered by a 400 W RMS, 10" loudspeaker (model AL-10) and our constant directivity horn model BP-2 coupled to the D.A.S. 2" titanium driver model K-8. The combination of these units, loudspeakers and horns results in the most sensitive (108 dB), mid-high frequency unit available.

It can be combined with rearly any efficient bass system although one must consider the extremely high sensitivity rating of the multidriver system before combining it with conventional bass bins. Our Bass-03 which uses 2 x 15" loudspeakers (model G-30) and the multidriver system make a perfect match. The compact combination is known as the D.A.S. Fracs-03 p.a. system.

THE A.E.S. STANDARDS

As *sustaining members* of the *Audio Engineering Society* (A.E.S.), D.A.S. Audio, S.A. prints data on all its professional sound products, following their norms and specifications.

All these standards can be found widely commented in several articles which have appeared in some issues of the Journal of the A.E.S. and the following one is particularly interesting:

"A.E.S. Recommended Practice Specification of Loudspeaker Components Used in Professional Audio and Sound Reinforcement." JOURNAL OF THE AUDIO ENGINEERING SOCIETY, VOLUME 32, 1984 OCTOBER.

This article establishes a set of primary specifications to be followed by manufacturers in describing loudspeaker components used in professional audio and sound reinforcement system design.

SPECIFICATIONS

IMPEDANCE: 8 Ω

FREQUENCY RANGE: 150 Hz - 20 KHz

SOUND PRESSURE LEVEL: 108 dB (1 Watt / 1 meter)

PROGRAM POWER: 600 W

SINUS POWER: 300 W

DISPERSION: 90 x 70 degrees

HORIZONTAL BEAMWIDTH: 91°(+30°,-29°)
(-6 dB, average 315 Hz to 4 KHz)

VERTICAL BEAMWIDTH: 70°(+23°,-20°)
(-6 dB, average 800 Hz to 10 KHz)

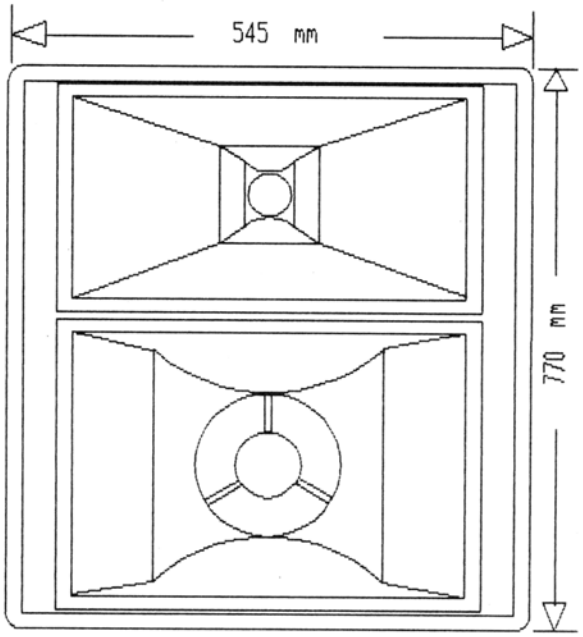
DIRECTIVITY FACTOR Q (average 1 to 10 KHz):
12.65 (+5.3,-2.83)

DIRECTIVITY INDEX D_I (average 1 to 10 KHz):
10.9 (+1.7,-0.98) dB

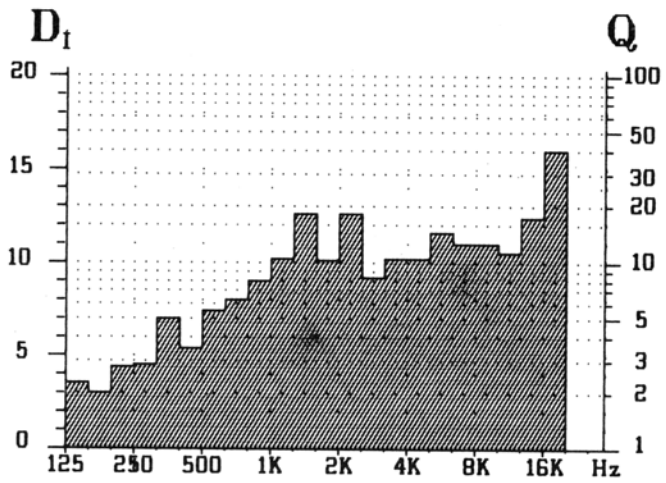
DIMENSIONS: 77.0 cm (30.32") high
54.5 cm (21.46") wide
54.5 cm (21.46") deep

NET WEIGHT: 58 Kg (128 lb)

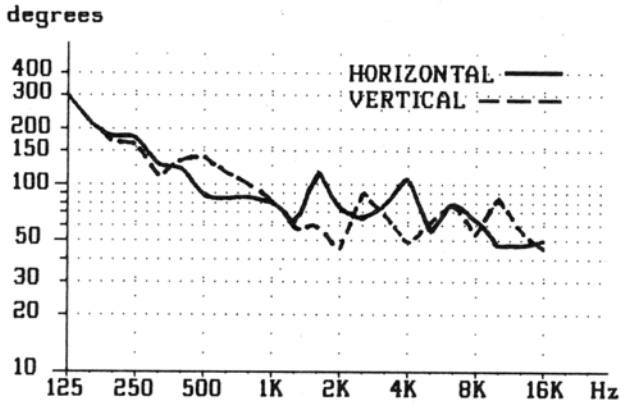
Note: all specifications enclosed have been taken from the one-third-octave bandwidth measures.



Line drawing with dimensions.



Directivity and index factor vs frequency



Beamwidth in degrees vs frequency

POLAR MEASUREMENTS

The following characteristics were computed at selected, one-third-octave frequencies for the polar graphics shown on page 3 of this leaflet:

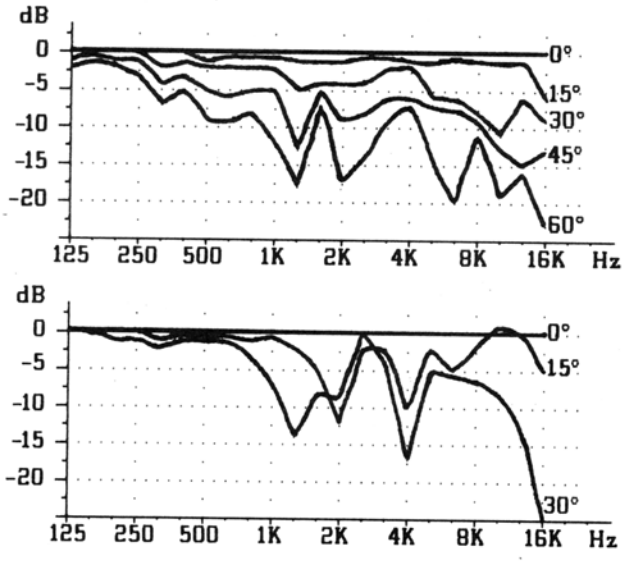
a) the axial directivity Q
b) the directivity factor D_I
c) the beamwidth amples in degrees
d) the off-axis frequency response.

These data are displayed on the right by means of three graphics.

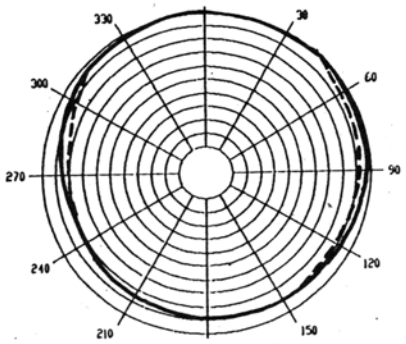
The polar graphs were obtained by placing the special unit inside our echoless room at the top of a closed box covered by foam. The microphone used for measuring was placed at a distance of 4 meters from the special unit's mouth.

Horizontal polar responses were plotted with a continuous line and vertical polar responses with an uncontinuous one. Scale is 5 dB per division. Rotation was carried out in the geometrical axes inside the horizontal and vertical planes.

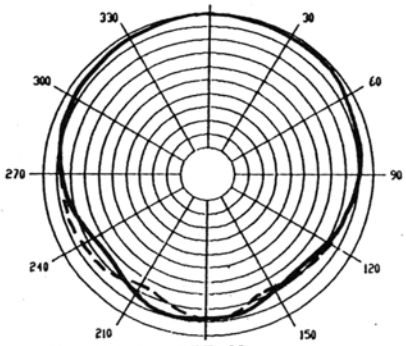
Possible errors due to the differences between geometrical and acoustical axes are insignificant because of the relatively large distances used during the measuring process.



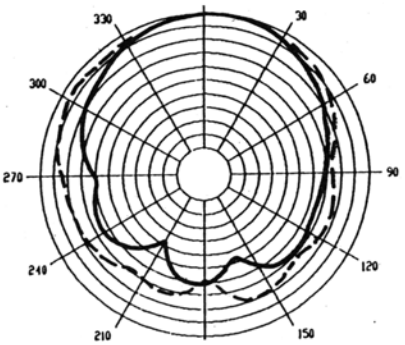
Horizontal (top graphic) and vertical (bottom graphic) off-axis response



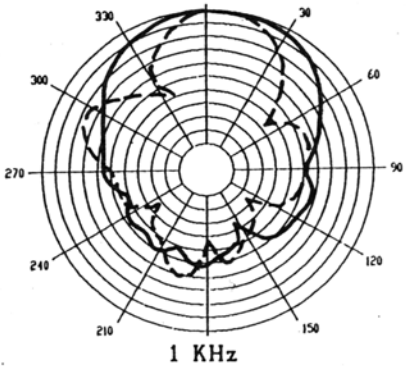
160 Hz



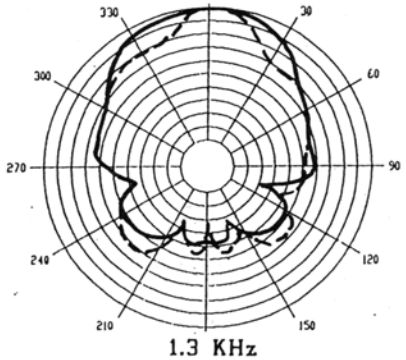
250 Hz



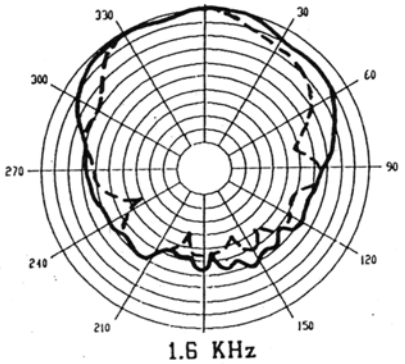
500 Hz



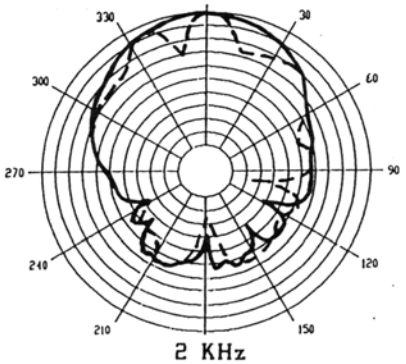
1 KHz



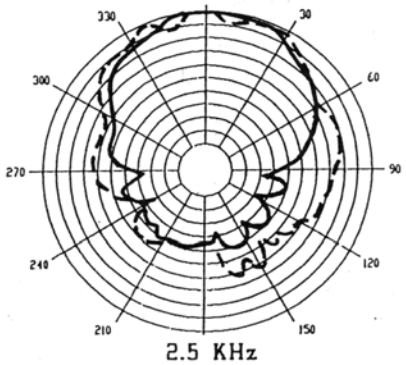
1.3 KHz



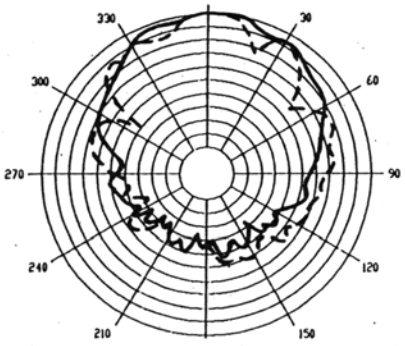
1.6 KHz



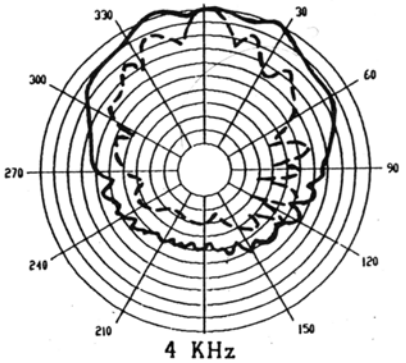
2 KHz



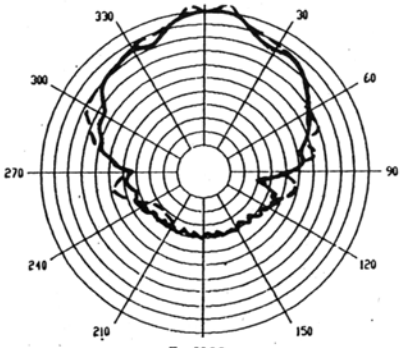
2.5 KHz



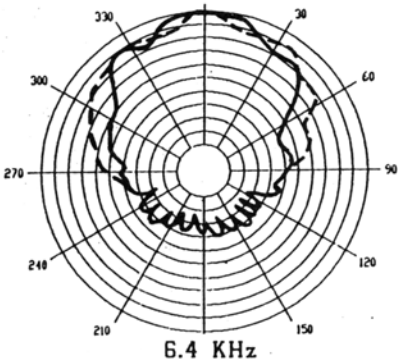
3.2 KHz



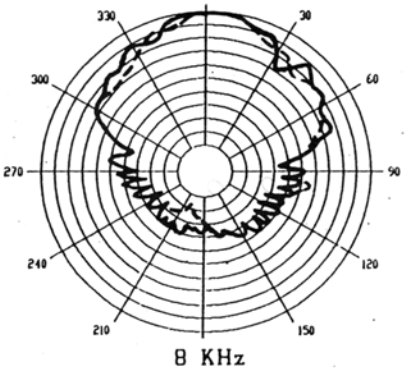
4 KHz



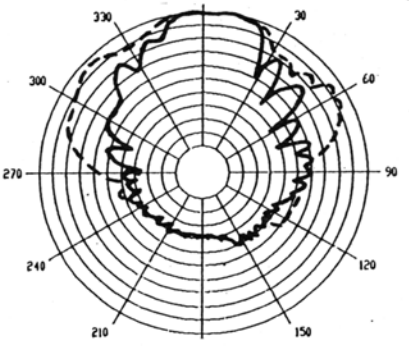
5 KHz



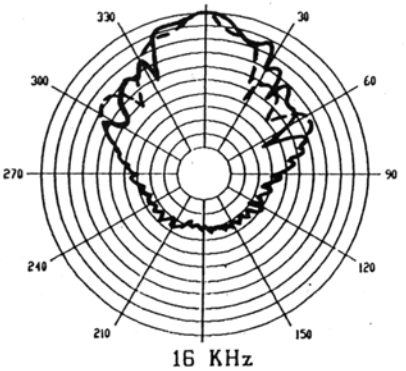
6.4 KHz



8 KHz



10 KHz



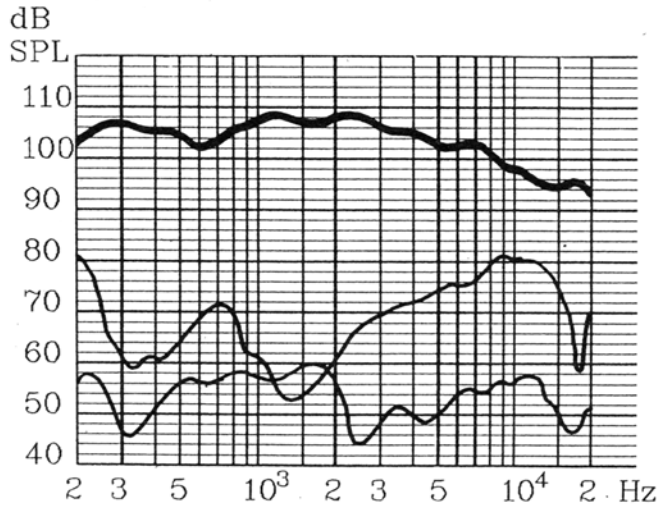
16 KHz

WARRANTY

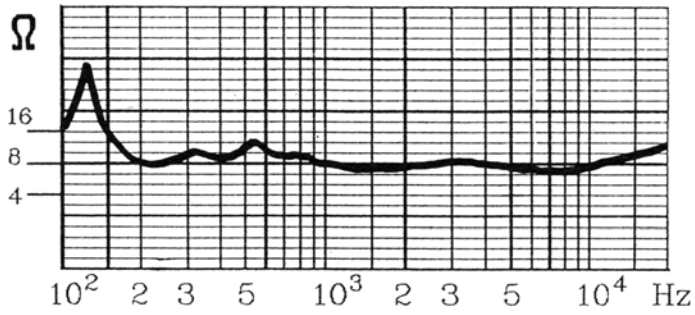
D.A.S. could eventually, in order to improve the quality of our products, change the specifications enclosed without prior notice.

All D.A.S. professional sound products are guaranteed against defective workmanship for a period of five years.

In the event of a mulfunction, the product should be returned to any D.A.S. authorized service center or to the factory for appropiate inspection and repair.



Fundamental (top trace), 2nd harmonic (center trace) and 3rd harmonic (bottom trace) frequency response of the MULTIDRIVER (1W/1m). All measures made in an echoless environment.



Impedance response of the MULTIDRIVER.

D.A.S. Audio, s. a.
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46988 PATERNA (VALENCIA) SPAIN - TEL. (96) 1387843 - TELEX 61387 dsa-E - FAX (96) 1387806