



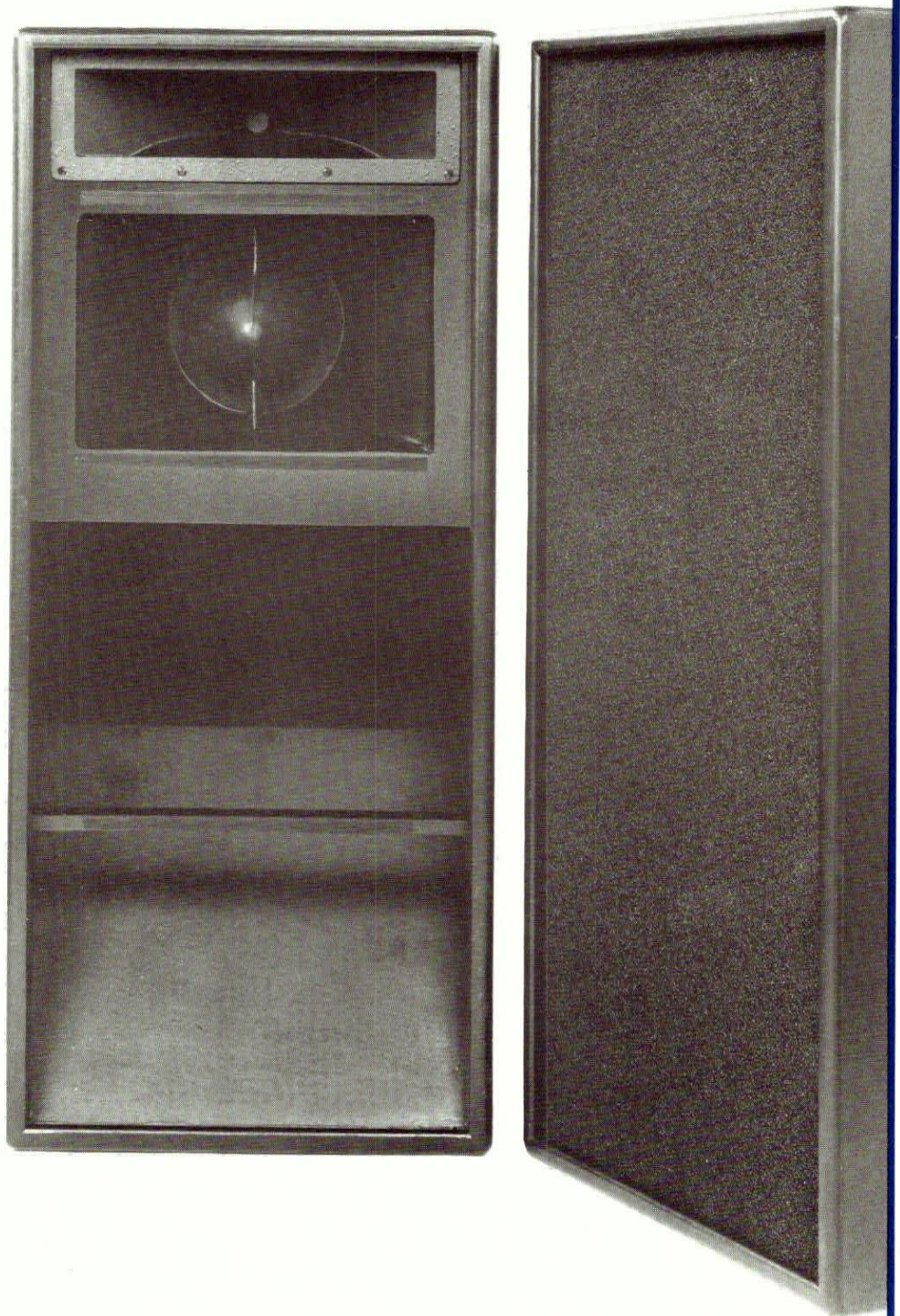
# Turbosound™

## TMS-4

Turbosound's TMS-4 is a phase and amplitude aligned, full-range packaging of Turbosound principles and techniques into a two-way active, three-way line array loudspeaker module. The design employs an 18" proprietary bass driver loaded into a patented TurboBassDevice™, a 10" proprietary mid driver loaded into a patented TurboMidDevice™, and a 1" high frequency assembly. The array projects a controlled, cohesive wavefront providing accurate transient reproduction through its entire frequency range, indicative of its high level of performance and properly integrated designs.

It is intended for high level sound reinforcement, where line source coherence with exceptional fidelity and low frequency power are required, such as: rock bands, concert halls, touring systems, and discos. The TMS-4 is a rugged, compact packaging of well-matched components and techniques, offering high sound pressure levels with studio monitor detail and fidelity.

 Turbosound™





## TMS-4 SPECIFICATIONS

Size	45"H x 19¾"W x 28¾"D (1143mm x 502mm x 730mm)
Weight	165 lbs. (75 kg.)
Components:	
Bass	1 18" LF driver on a TurboBassDevice™ 300 watts RMS, 600 watts Program; 8 ohms
Mid/High	1 10" MF driver on a TurboMidDevice™ 1 1" HF driver on an exponential flare 150 watts RMS, 300 watts Program; 16 ohms
Frequency response <sup>1</sup>	45 - 18,000 Hz +/- 3 dB 35 - 19,000 Hz +3/-6 dB
Phase response	Coherent over stated bandwidth
Dispersion <sup>2</sup>	70°H x 50°V at -6 dB points
Power handling	450 watts RMS, 900 watts Program
Sensitivity <sup>3</sup>	105 dB 1 watt/1 meter (Average) 108 dB 1 watt/1 meter (Peak)
Maximum SPL <sup>4</sup>	126 dB (Continuous) 135 dB (Peak)
Crossover	Active 2 way; recommended point 280 Hz, 24 dB/octave slope
Construction	15mm Finnish birch ply, butt-jointed, sealed with marine glue, and finished in enamel-based semi-matt black paint.
Protective grille	1" 20 PPI fully reticulated foam
Connectors	3 pin XLR; 2 male, 2 female Optional Cannon EP-4; 1 male, 1 female
Flying	Optional ring-type flying points, 3 fitted to top of enclosure; or 1 Turbosound flying plate per side, with 2 angling points on back Optional TMS-4 flying bar complete with straps and all necessary hardware
Hardware	HF attenuator 4 recessed handles Optional heavy duty cover
Transport	4 heavy duty 3" swivel castors fitted to back

All measurements are actual figures taken from real-time testing using stated inputs free from any filtering or weighting, rather than treated inputs and/or calculated figures used by many manufacturers. Therefore, actual performance of the TMS-4 may substantially exceed that of loudspeaker systems with higher published ratings.

### Notes

<sup>1</sup>Measured on-axis, half-space conditions, using swept sine wave input

<sup>2</sup>Average over stated bandwidth

<sup>3</sup>Mean average of two bands, each measured 1 watt/1 meter, half-space conditions, using swept sine wave input

<sup>4</sup>Continuous measurement: Unweighted pink noise input

Peak measurement: Music program input

Both measured at 1 meter, using stated amplifier power.

## ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The loudspeaker system shall be of the two-way active, three-way type, consisting of one 18" low frequency loudspeaker loaded into a patented TurboBassDevice™, one 10" mid frequency driver loaded into a patented TurboMidDevice™, and one 1" high frequency assembly.

Performance specifications of a typical production unit shall meet or exceed the following: Frequency response, measured with swept sine wave input, shall be flat within +/- 3 dB from 45 - 18,000 Hz. Dispersion, at -6 dB points, shall average 70°H x 50°V. Rated Impedances shall be: Bass 8 ohms, Mid/High 16 ohms. Power handling shall be 450 watts RMS, 900 watts Program. Sensitivity, measured with 1 watt input at 1 meter distance on-axis, mean averaged over stated bandwidth, shall be 105 dB. Maximum SPL (Peak), measured with music program input at stated amplifier power, shall be 135 dB.

Dimensions: 45"H x 19¾"W x 28¾"D. Weight: 165 lbs. Total enclosure volume shall not exceed 14¾ cu. ft.

The loudspeaker system shall be the Turbosound TMS-4.

No other loudspeaker system shall be acceptable unless submitted data from an independent test laboratory verify that the above combined performance/size specifications are met.

### TURBOSOUND™ PATENT INFORMATION

U.K. 1592246 & 1598310

U.S. 4181193 & 4215761

Canada patented 1980

Australia 515535

Other patents pending

Due to ongoing product improvement, specifications are subject to change without notice.

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