

## 78ds loudspeaker

The Mission *78ds* offers a high definition bipolar surround loudspeaker in an elegant and visually attractive package. Behind the beauty of the superbly styled and crafted enclosure lies the result of much skilful and creative engineering. The design solutions employed within the *78ds* are novel, while the manufacturing techniques are among the most advanced in the world. The *78ds* will satisfy the most fastidious audiophile and its superb finish and aesthetics will blend harmoniously into any room.

- The bi-polar driver configuration results in an ideal combination of diffuse sound field and an ability to provide localised rear effects from Dolby Digital and DTS sources. Because the bi-pole design produces a coherent sound field across a wide listening axis, the *78ds* can also be used for multiple rear speaker arrays, such as Dolby EX, without positioning and phasing problems.
- The standard of precision and finish in the *78ds* cabinets, found only in some exotic designs of an order of magnitude greater cost, exemplifies the attention to detail and Mission's commitment to total quality concept.
- Precision-moulded enclosure walls are used in combination with a highly rigid and optimally damped MDF base chassis to control resonance energy, so minimising coloration smear. Integral foam damping further reduces cavity resonance.
- The unique implementation of Keraform ceramic matrix LF drivers is a Mission first. Having a greater stiffness to mass ratio than any previous drive unit material, performance parameters for bass performance, transient attack, and detail resolution are exceptional, and set new standards at this price point.
- Like all the components in the Mission 78 series, the *78ds* is carefully voice matched to complement every speaker in the range. This ensures that all the loudspeakers in a 78 series AV setup combine to create a seamlessly integrated sound field throughout the room.

### features

Injection moulded cabinet  
Wall mounting plate

Bi-pole dispersion characteristic

Rear or side positioning design

Keraform ceramic matrix bass driver

Kapton voice coil formers  
Viscous-laminated soft dome HF unit

Hard wired crossover

### benefits

Reduced cabinet coloration.  
Can be wall mounted or placed on a conventional speaker stand.  
Wide dispersion produces an even, and natural, ambient soundfield  
Wide dispersion gives greater placement flexibility.  
Accurate location of multi-channel rear effects suitable for Dolby Digital 5.1, Dolby EX and DTS.  
Exceptionally rigid, yet light, diaphragm material increases transient attack, bass performance and efficiency while reducing overhang and distortion.  
Excellent high power handling and dynamic range.  
Highly refined, ultra-low distortion high frequency sound.  
Ensures less signal degradation, increased detail resolution and optimised for an easy amplifier load and long cable runs.

## construction

Enclosure	High impact grade injection moulded polymer mounted on 19mm MDF base chassis.
Ports	Integral reflex port.
Grille	Acoustically transparent, non removable.
Damping	Fire-retardant polyurethane foam.

## electrical

L.F. Unit	Twin 4" (100mm) Keraform ceramic cone with rubber surround and Kapton voice coil former.
H.F. Unit	Twin 1" (25mm) viscous-laminated dome, ferrofluid-cooled, with neodymium magnet.
Crossover	LF Unit Phase corrected 2 <sup>nd</sup> order. HF Unit 2 <sup>nd</sup> order.
Terminals	Multi-way, gold-plated, biwirable binding posts.

## specifications

Enclosure type	2-way Tuned reflex
Frequency response $\pm 3\text{dB}$	92Hz – 20kHz
Nominal Impedance	8 Ohms compatible (min. 6.8 $\Omega$ )
Sensitivity SPL/m/2.83v	87dB
Recommended amplifier power	25-100W
Crossover frequency	2.3kHz
Effective volume	4.5 litres
Cabinet dimensions (HxWxD)	278 x 375 x 133 (mm), 11 x 14.75 x 5.25 (inches)
Weight	4.5 Kg (per speaker cabinet)
Finish	Beech & Black Ash (Black cloth grille)

## setting up

- RUN IN for at least 24 hours before serious listening.
- Use good quality speaker cable.

Note: The recommended amplifier power rating is for undistorted power. Loudspeakers will be damaged by amplifiers overdriven into distortion, no matter what the power rating of the amplifier. For larger rooms or high listening levels it is safer to choose an amplifier with a power output near the maximum rating of the loudspeaker.