

# PRODUCT INFORMATION GUIDE

## Mission 752 Freedom Loudspeaker

### Construction

Enclosure	25mm Carcass with unique transverse-folded cabinet technology.
Material	Medium density fibre board.
Damping	Constrained layered damped walls with fire-retardant polyurethane foam.

### Electrical

L.F. Unit	6.5" (170mm) Patented Aerogel membrane, Edgewound flat Copper wire on Kapton former, die-cast chassis.
H.F. Unit	25mm (1") ferrofluid-cooled silk dome
Cross-Over network	Bi-wirable/bi-ampable 5-Way Gold Binding Posts with low-saturation LF inductor and ultra high quality components.

### Specifications

Enclosure Type	2-Way Reflex Loaded Tower with Double Chamber, Tri-Tuned system (DCTT)
Frequency Response:	
70Hz to 20kHz	± 1.25 dB
-6dB Point	40 Hz
Sensitivity SPL/m/2.83V	90 dB
Max. SPL per pair	108 dB
Cross-Over Frequency	3.6 kHz
Effective Volume	29Litres
Recommended amplifier power	20 - 125W
Cabinet Dimensions (H x W x D)	875 x 200 x 260(mm) 34.5 x 7.9 x 10.2(inches)
Finishes	Black Ash, Rosewood & Primavera Real wood veneer

### Features

Unique *TFT* transverse-folding  
Unique *IDG* Inverted driver geometry  
Unique *DCTT* system  
Visco-elastic damping & bracing  
Aerogel cellulose membrane  
Edgewound/Kapton Voice Coil  
Die-Cast chassis LF unit  
Silk dome HF unit  
Gold-plated 5-Way Binding Post

### Benefits

- Ultra rigid construction eliminating cabinet coloration.  
- For optimum dispersion at cross-over frequency.  
- Disperses standing waves for coherent and extended bass.  
- Controls enclosure resonances.  
- Ultra low mass for greater sensitivity and dynamics.  
- More efficient motor high power handling and low distortion  
- better resolution under dynamic conditions.  
- Highly refined, ultra-low distortion high frequency unit  
- Enhanced cable connection quality offering bi-wiring/bi-amping

### Setting Up

- RUN IN for at least 24 hours before serious listening.
- Use spike provided for optimum coupling to the floor.
- Place within 30cm of the back wall without toe-in angle.
- Use quality speaker cable preferably bi-wired (Mission Quartet)
- Ensure all drive units are fully tightened before use.
- Ensure a minimum of 2m between the two loudspeakers.

## **Mission 752 Freedom**

The Mission 752 Monitor Tower loudspeaker follows in the footsteps of the legendary 770 and offers the benefits and inherent "rightness" of a two-way reflex design in a medium size enclosure. The 752 is an outstanding performer in a classic mould. The basic simplicity of its two-way design, coupled with the exceptional quality of its component parts, have produced in the 752 a speaker which is more than capable of upholding the enviable reputation for outstanding performance which Mission established with the original ground-breaking 770.

- Unique transverse-folded cabinet technology (TFCT), made possible by Mission's high-tech precision CNC manufacturing capability, provides new levels of enclosure integrity and rigidity.
- The standard of precision and finish in the 752 cabinets, found only in some exotic designs of an order of magnitude more cost, exemplifies the attention to detail and Mission's commitment to total quality concept.
- Unique double chamber, tri-tuned system (DCTT) presents the woofer with a small, non-reflective enclosure at mid and high frequencies and the full enclosure volume at very low frequencies to ensure exceptional low frequency performance.
- Visco-elastic internal cabinet wall damping restrains resonant energy and minimises coloration "smear".
- A substantial, die-cast chassis supports the cone assembly of 752 LF unit in a precise fashion minimising distortions associated with misalignments of the moving assembly under extreme performance conditions.
- The patented "Aerogel" LF diaphragm of the 752 fashions an incredibly high stiffness to mass ratio enabling true pistonic operation through to mid treble region without break-up. This performance is further enhanced by a phase-plug that ensures smooth phase characteristics in off-axis directions of interest.
- Edgewound flat-wire bass driver voice coil, together with ultra high-temperature Kapton former substantially increase electro-magnetic efficiency, maximising power handling and sensitivity.
- Silk tweeter dome offers exceptionally smooth and "silky" high frequency performance with superior off-axis response. The design is optimised to provide virtually no compression with increasing level and an ultra-fast transient response.
- Inverted drive unit geometry (IDG), optimises vertical dispersion characteristics and ensures smooth phase and frequency response around the crossover transition.
- Gold-Plated binding posts ensure reliable connection maximising information retrieval and definition. A most simple cross-over design, afforded by the inherent quality of the drive units, ensures maximum information retrieval, clarity, transparency and detail.
- Bi-wiring capability of the 752s dispels inter-driver ground induced intermodulation, improving clarity and bass definition.
- Outstanding dB/watt efficiency and high power handling drive units ensure good dynamic capability for believable reproduction of all types of music at realistic sound pressure levels.