TANNOY
professional

i8 MP
USER MANUAL

Contents

1. Introduction

Thank you for purchasing Tannoy i8 MP.

The i8 MP (Multi Purpose) is an active product and has been designed for a variety of sound reinforcement applications. The Tannoy i8 MP is a compact loudspeaker system capable of delivering high sound pressure levels with extremely low distortion, resulting in the outstanding clarity, definition and detail.

The i8 MP consists of an advanced 8" (200mm) Dual Concentric drive unit where the low frequency (LF) and high frequency (HF) sources are coincidentally aligned to a point source, resulting in a smooth uniform frequency response over a wide area of coverage. The sophisticated CAD designed waveguide combines 60° conical dispersion and excellent acoustic impedance characteristics. Active user controls are also provided to allow further bass extension (LF control) and greater flexibility.

Utilisation of the point source Dual Concentric loudspeaker allows the i8 MP to be mounted on the wall or ceiling in either horizontal or vertical orientations without affecting it's performance. A range of hardware options ensures simple and effective installation. Available in charcoal grey or white the i8 MP will effectively blend into most backgrounds.

For applications requiring extended low frequency enhancement, a range of Tannoy sub-bass systems are available and can be used in conjunction with the i8 MP.

2. Unpacking

Before your i8 MP left the factory, it was inspected and tested to make sure it reaches you in perfect condition. However would you please check your i8 MP to make sure no damage has occurred in transit. In the unlikely event of any damage, would you please notify your dealer immediately and retain your shipping carton, as your dealer may ask you to return the faulty unit for inspection.

3. Power Requirements

After unpacking check that the voltage rating is correct. The selector can be found on the rear panel at the back of the speaker, *Figure 3a.* If the voltage is incorrect, move the voltage selector to the appropriate voltage. Check that the panel mounted fuse is also correct for the operating voltage, which is located under the plug socket. The fuse rating should match the operating voltage: voltage: T1.25A/250V for 220-240V and T2.5A/125V for 100-120V operation. The fuse should, however, correspond to the set voltage when shipped.

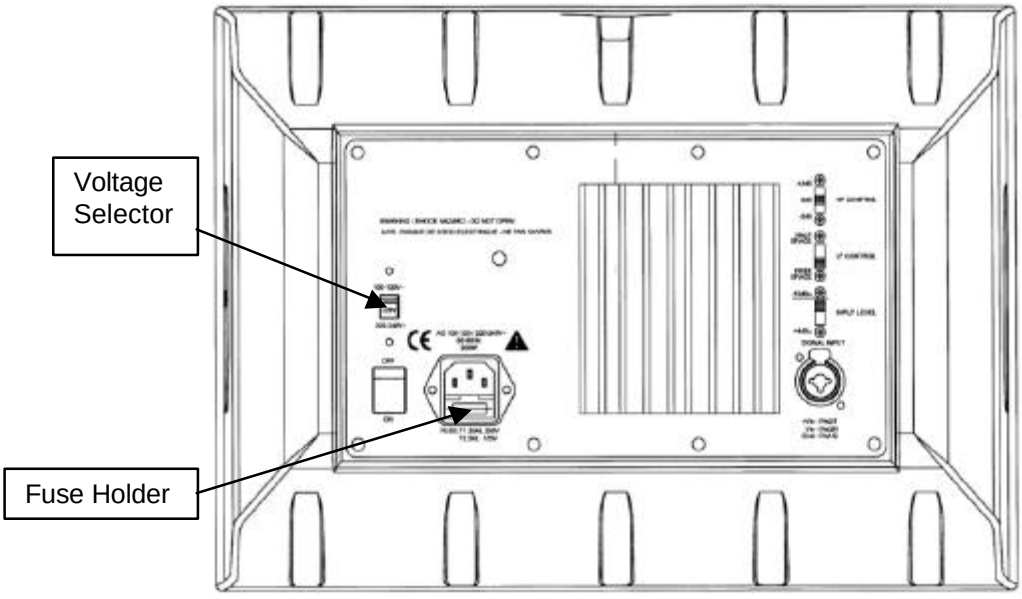


Figure 3a

4. Operation

4.1. Connectors/Cabling

A balanced socket is provided for the audio input. If the source itself has a balanced output, use shielded twin conductor cable (microphone cable) connecting pin 2/T to the red wire (signal $+^{ve}$), pin 3/R to the blue wire (signal $-^{ve}$) and pin 1/S to the shield or screen (source ground) as shown in the table below. If the source itself has an unbalanced output use a single conductor shielded cable, connecting pin 2/T of the input to the "hot" single pin of the source, while pin 3/R and pin 1/S are linked together and connected to the signal source ground.

	XLR input	Jack Input
Signal (+)	Pin 2	Tip (T)
Signal (-)	Pin 3	Ring (R)
Ground	Pin 1	Screen (S)

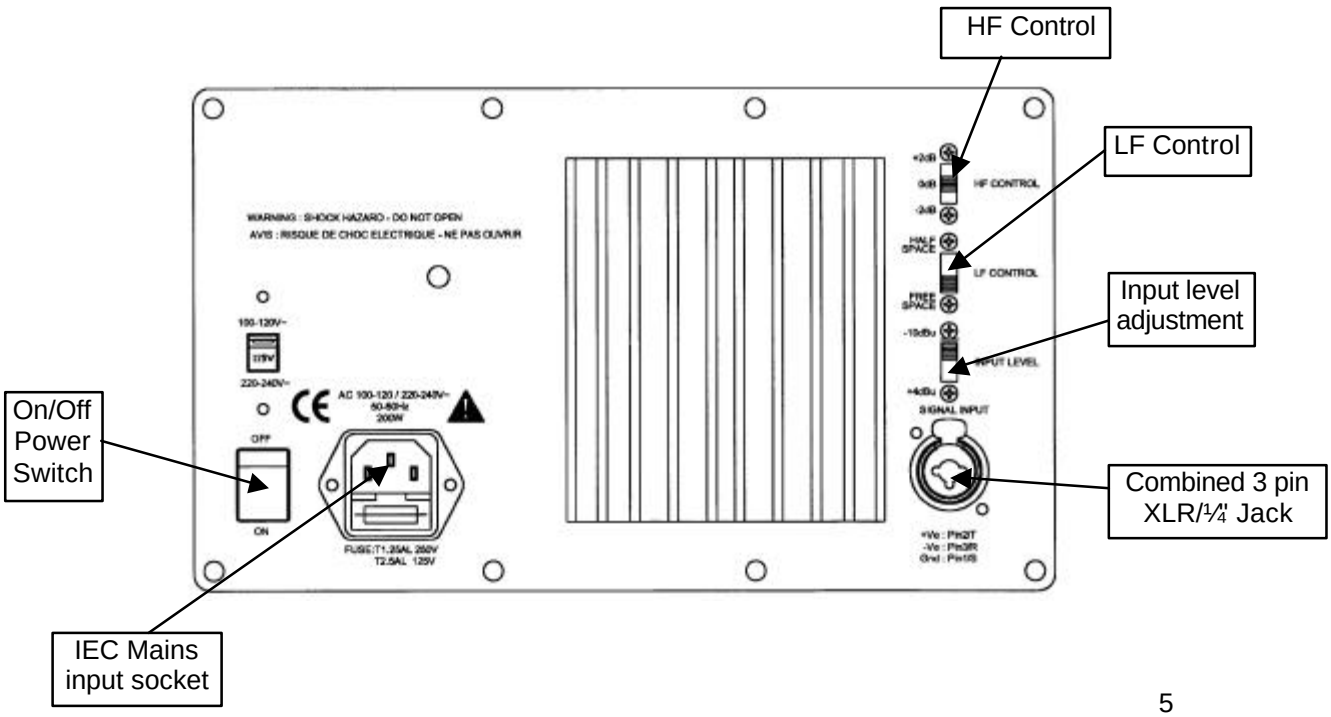
4.2. Controls and Indicators

The input level switch (*Figure 4a*) provides a sensitivity (i.e. gain) adjustment, the top and bottom positions corresponding to –10dBu and +4dBu nominal sensitivities respectively.

When set to 'Free Space', the LF Control (*Figure 4a*) extends the bass response and enhances the low frequency content below 150 Hz by means of a Hi–Q 2nd order Hi-Pass filter. In the 'Half Space' position the LF signals are unprocessed and the bottom end response remains that of a vented system i.e. 4th order (24dB/octave). Note that when activating the Hi-Pass filter ('Free Space'), very low frequencies under 30 Hz will be significantly attenuated so that mechanical stress on the LF drive unit (excursion) is maintained within safe operating limits. Also, the boost applied to the signal in the 'Free space' position will reduce the headroom on the LF amplifier channel and therefore the maximum SPL available.

The HF Control switch (*Figure 4a*) allows adjustment of the HF level. It operates as a shelving filter above 2kHz with –2dB or +2dB amplitude and a 0dB (flat) middle position. Use this facility if a flat response is not the most appropriate to the acoustical environment, or if the HF level requires adjustment.

Note. The input sensitivity and LF and HF contour on each i8 MP should be identical for correct channel balance.



4.3. Powering

Before connecting the i8 MP to a mains inlet socket, ensure all other connections are correctly made. The i8 MP may be supplied with an IEC mains cable. Connect this cable into the IEC mains socket on the back of the unit. If a cable is not supplied, use mains cable with the correct plug and rating for your country.

Once the IEC mains cable has been connected, switch the unit on via the switch located on the rear of the cabinet (*Figure 4a*)

5. Operation close to TV screens and video monitors

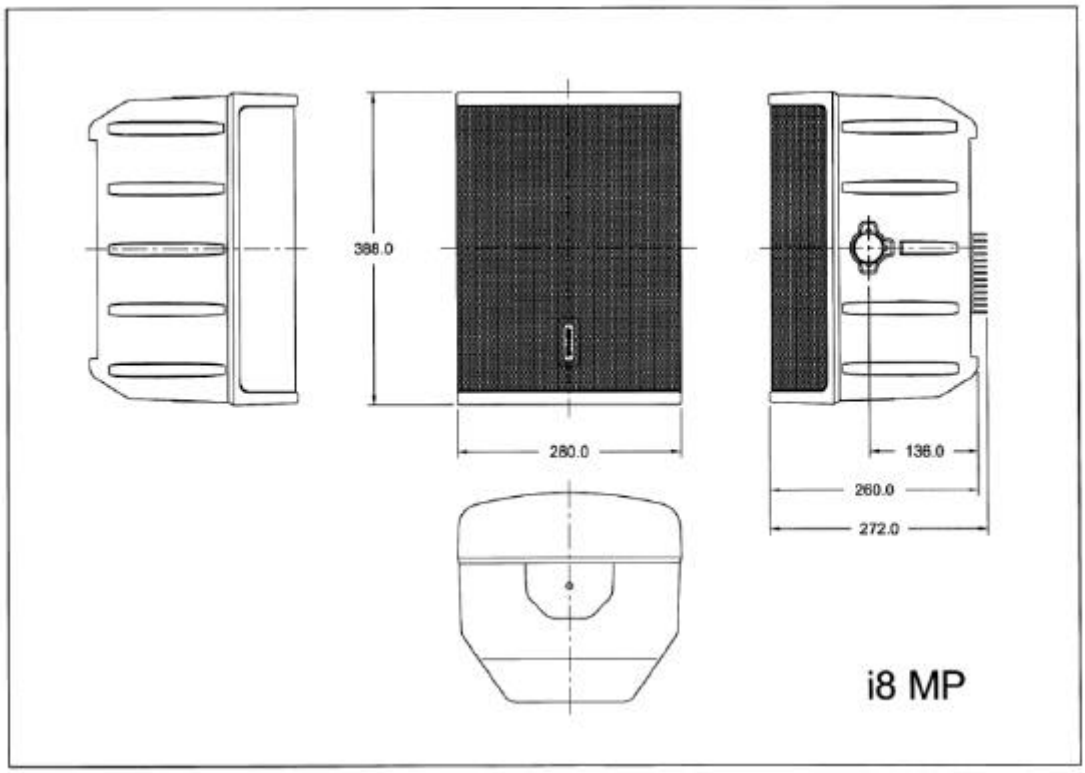
As the i8 MP contains a powerful magnet, avoid placing the unit closer than half a meter from a TV screen or video monitor in order to avoid any picture distortion.

6. Equalisation

The i8 MP loudspeaker is designed to need no equalisation or correction to overcome system limitations. As a result, it will only need equalisation to compensate for difficult acoustic environments.

Excess equalisation can reduce system headroom, and introduce phase distortion resulting in greater problems than it cures. If equalisation is required then it should be applied gently and smoothly. The i8 MP loudspeaker is a point source; phase coherent design and violent equalisation will be detrimental to the overall sound quality.

7. Dimensions



8. Hardware

The i8 MP can be wall or ceiling mounted using the MB8 (optional) bracket (*Figure 8a*), which is designed to offer the maximum flexibility in selecting the desired angles.

The MB8 is supplied with M8 bolts for fixing to the loudspeaker. After fixing the bracket to the wall or ceiling remove the plastic plugs from the top and the bottom of the loudspeaker. Position the cabinet at the required angle and tighten the M8 bolts to fix the loudspeaker in position.

The i8 MP can be mounted either horizontally or vertically using the MB8 bracket (*Figure 8b & 8c*).

Please note that depending on the bracket orientation, the minimum angles at which the unit can be titled with the MB8 are 20° and 40° (*Figure 8d*)

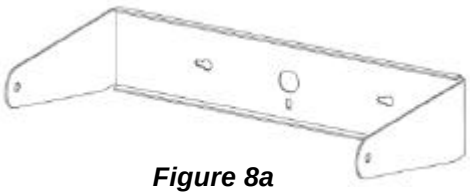


Figure 8a

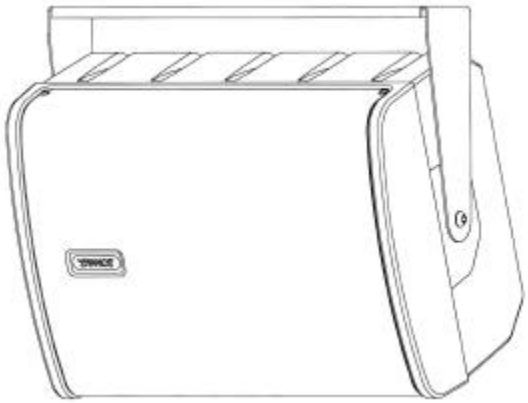


Figure 8b

Figure 8c

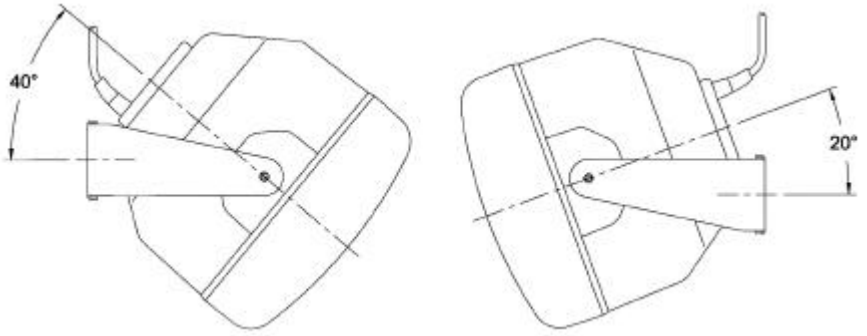
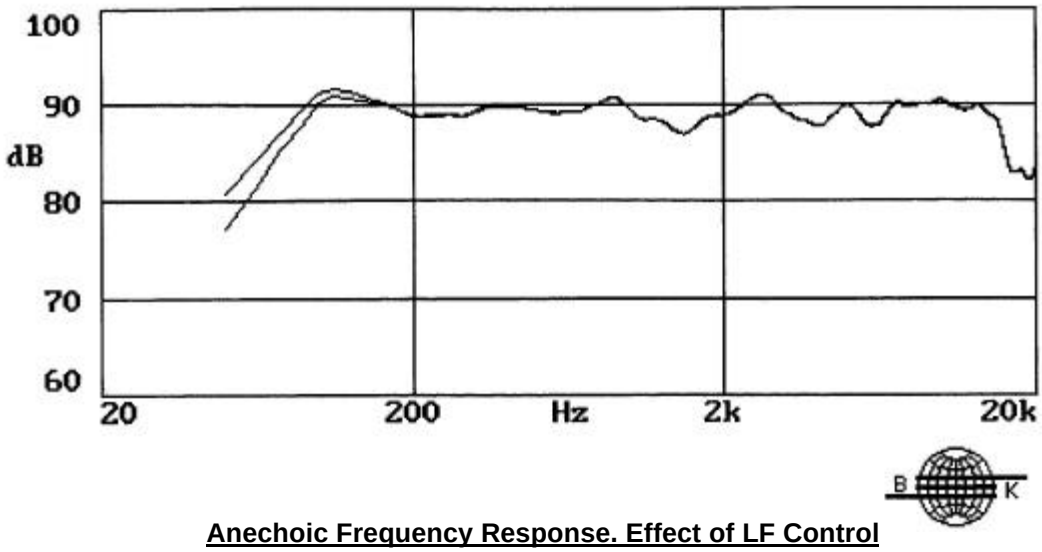


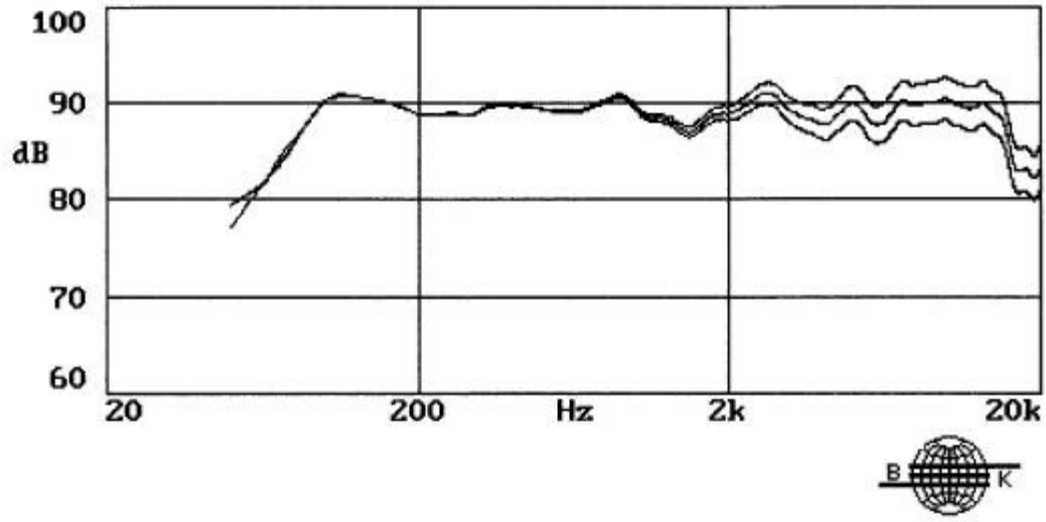
Figure 8d

NOTE: The installation of this product must be carried out in conformity with local building codes and standards. If necessary consult your local safety standards officer before installing any product. Alternatively, check any laws or bylaws. Tannoy will not be held responsible for any damage caused by the improper installation of any bracket or loudspeaker.

9. Performance Data

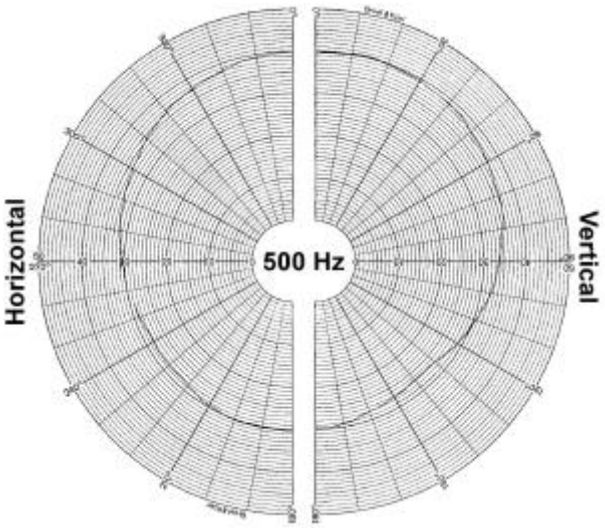


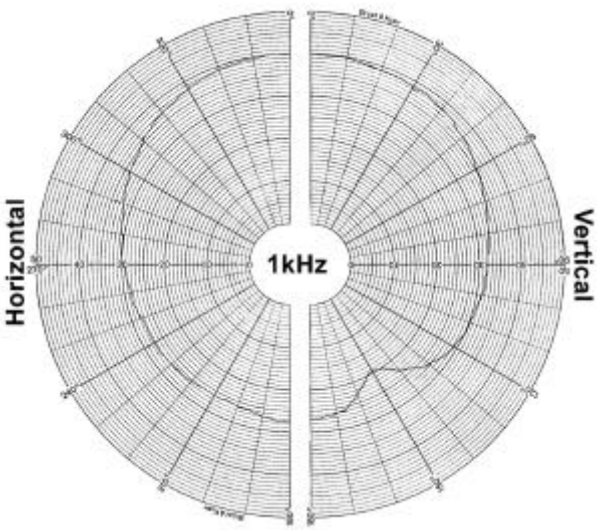
Anechoic Frequency Response. Effect of LF Control

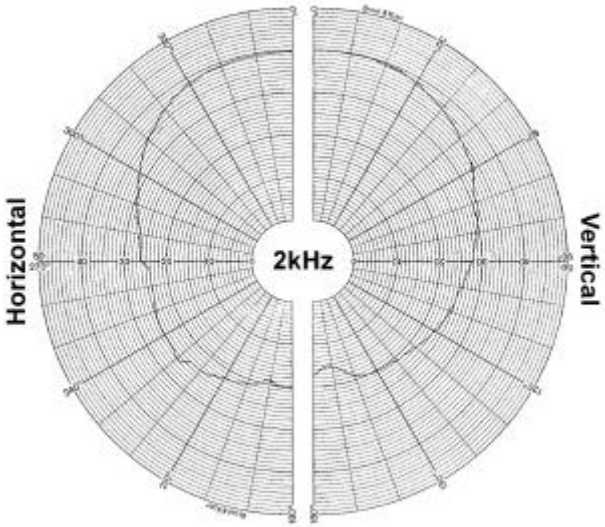


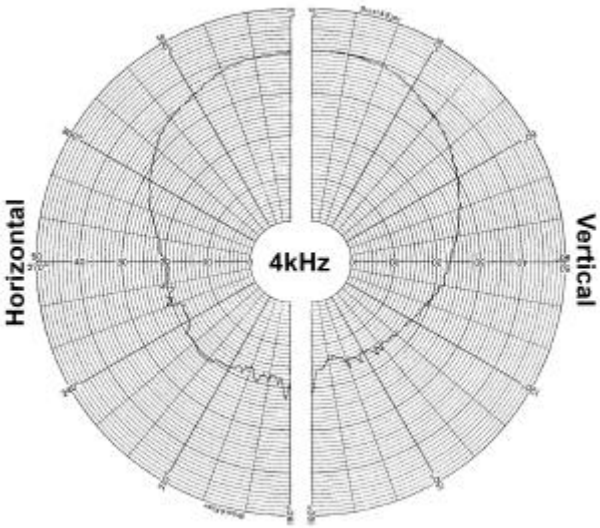
Anechoic Frequency Response. Effect of HF Control

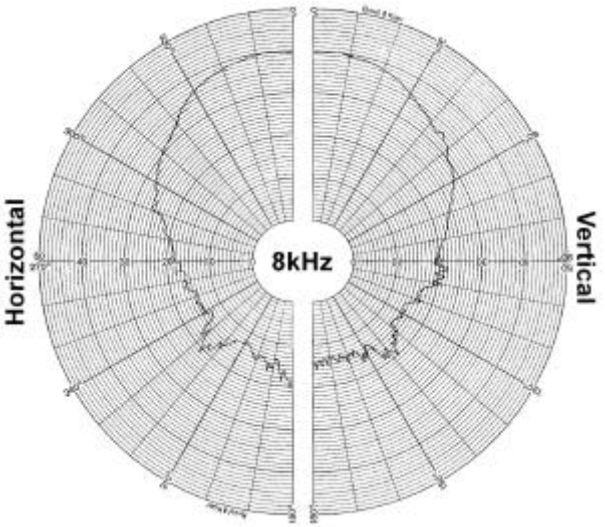
10. Polar Data

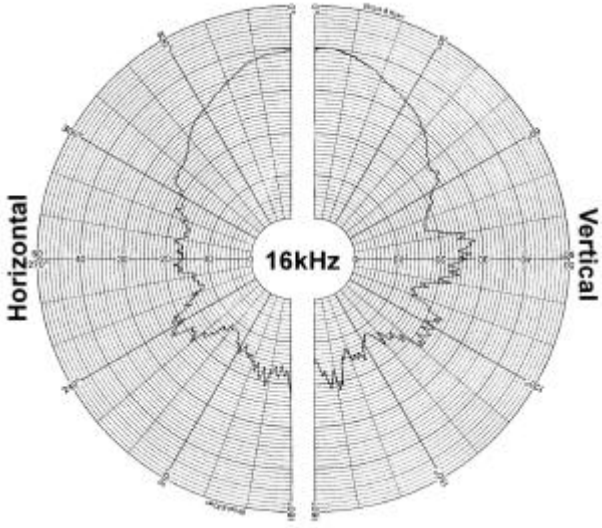












11. Technical Specifications

Acoustical Section:

Frequency Response	**Free space**	68-20kHz
	Half Space	75-20kHz
Maximum SPL	**(peak @ 1m)**	110dB SPL
Dispersion		60° conical
Directivity Index	**1kHz**	5.4
	2kHz	6.6
	4kHz	7.9
	8kHz	9.6
	16kHz	12.5
Q	**1kHz**	3.5
	2kHz	4.6
	4kHz	6.2
	8kHz	9.6
	16kHz	17.6

Electrical Section:

Input connector		10kΩ balanced
Sensitivity		Adjustable, +4 dBu/-10dBu
Crossover frequency		1600Hz
Amplifier output power	LF Channel (6Ω load)	90 W rms
	HF Channel (6Ω load)	90 W rms
Output noise (HF channel, 20Hz – 20kHz unweighted)		-80dBV
User controls & Indicators		Input level, LF extension, HF shelving
Supply		Mains voltage adjustable to 220/240V or 100/120V AC Fuse:T1.25A/250V, T2.5A/125V

Complete System:

Driver Complements	1x 8" (200mm) Dual Concentric
Enclosure	16 litres, vented polypropylene
Finish	Charcoal grey, White
Protection Grille	Perforated Aluminium
Connectors	Combined 3 pin XLR/¼"Jack
Dimensions	388mm (H) x 280mm (W) x 272mm (D) 15.3" (H) x 11.0" (W) x 10.7" (D)
Accessories	MB8 mounting brackets
Weight (each)	8.6 kg 19 lb
Shipping Dimensions	450mm (H) x 570mm (W) x 340mm (D) 17.7"(H) x 22.5" (W) x 13.4" (D)
Shipping Weight (pair)	19.6 kg 43 lb

NOTES:
(1) Average over stated bandwidth. Measured at 1m on axis, in an anechoic chamber.
(2) Long term power handling capacity as defined in EIA standard RS - 426A.
(3) Unweighted pink noise input, measured at 1m

Tannoy operates a policy of continuous research and development. The introduction of new materials or manufacturing methods will always equal or exceed the published specifications which Tannoy reserve the right to alter without prior notice. Please verify the latest specifications when dealing with critical applications.

12. IMPORTANT SAFETY INFORMATION

- Never expose the unit to moisture, water and extremes of temperature or humidity. Specifically, the unit shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the unit. Do not operate adjacent to a radiator or heater. No naked flame sources, such as lighted candles, should be placed on the apparatus. Articles such as newspapers, tablecloths, curtains etc must not cover the unit.
- Never open the unit, as there is a risk of electric shock.
- There are no user serviceable parts inside the unit. Always refer servicing to your Tannoy dealer or authorised service agent.
- Avoid violent shocks to the unit during packing or transportation.
- Do not plug the unit into the mains until all other connections have been made and checked.
- Due to the powerful magnet within the i8 MP, do not place within 0.5m of a television or computer monitor, unless your model is provided with magnetic screening.
- If not used for a long period of time, it is recommended that the apparatus be completely disconnected at the AC mains socket.
- This apparatus is designed for use in moderate climates.

A mains cable may be supplied with the product, having a moulded plug at one end and a moulded mains plug appropriate to the country of use at the other end. Where the moulded plug is fitted with a mains fuse, always replace with the same type and rating.
If the fitted plug is unsuitable for your type of outlet sockets, it should be cut off and disposed of safely, in case it is inserted into a live socket elsewhere. The wires in the mains cable are coloured in accordance with the following code:

GREEN AND YELLOW	EARTH
BLUE	NEUTRAL
BROWN	LIVE

AS THE COLOURS OF THE WIRES IN THE MAINS CABLE MAY NOT CORRESPOND WITH THE COLOURED MARKINGS IDENTIFYING THE TERMINALS IN YOUR PLUG, PROCCED AS FOLLOWS:

The wire which is coloured GREEN AND YELLOW must be connected to the terminal in the plug which is marked either by the letter E, the earth safety symbol (⏚), or coloured GREEN or GREEN and YELLOW.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked by the letter N or coloured BLACK.

The wire which is coloured BROWN must connected to the terminal in the plug which is marked by the letter L or coloured RED.

Ensure the terminals are tightened securely, and no loose strands of wire are present. Ensure cord grip is clamped over outer sheath of cable, rather than over the wires.

CE This equipment has undergone safety and EMC testing, and complies with the **European Law Voltage Directive** and **Electromagnetic Compatibility Directive**

13. i8 MP Service Parts & Accessories

Part Number	Description
7900 0413	Driver Kit Type 2046
7900 0414	Recone Kit Type 2046
7900 0406	HF Diaphragm Kit
8001 1270	MB8 Bracket - Black
8001 1280	MB8 Bracket - White
7300 0781	Amplifier i8 MP

14. Warranty

No maintenance of the i8 MP loudspeaker is necessary.

All Tannoy professional loudspeaker products are covered by a 5-year warranty from the date of manufacture subject to the absence of misuse, overload or accidental damage.

Claims will not be considered if the serial number has been altered or removed. A Tannoy Professional dealer or service agent should only carry out work under warranty.

This warranty in no way affects your statutory rights.

For further information please contact your dealer or distributor in your country. If you cannot locate your distributor please contact Customer Services, Tannoy Ltd at the address given below.

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Coatbridge
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ML5 4TF

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DO NOT SHIP ANY PRODUCT TO TANNOY WITHOUT PREVIOUS AUTHORISATION

Our policy commits us to incorporating improvements to our products through continuous research and development. The introduction of new materials or manufacturing methods will always equal or exceed the published specifications which Tannoy reserve the right to alter without prior notice. Please confirm current specifications for critical applications with your supplier.

EASEÔ Data for Tannoy Professional products available on request and from Tannoys' web site: http://www.tannoy.com

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