

TANNOY®

i5 MP
USER MANUAL

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1. Introduction

Thank you for purchasing Tannoy i5 MP.

The Tannoy i5 MP is a powered loudspeaker and has been designed to be both sonically and cosmetically pleasing for a range of applications from AV presentations to public address.

ICT™ or Inductive Coupling Technology offers point source operation, and can hence be used in both landscape and vertical positions without affecting the sound quality. The ICT™ utilises a wireless electromagnetic tweeter that does not require a crossover and cannot be burned out from heavy or abusive use. The 1" aluminium high frequency dome has a deep drawn skirt which sits inside the low frequency voice coil in the same magnetic gap. The skirt is like a single shorted turn, which is induced with high frequency information generated by the low frequency voice coil, which is fed a full bandwidth signal. The ICT™ dome is at the heart of our i5 MP transducer which utilises a moulded plastic cone and nitril rubber surround to further enhance its' durability and long term reliability.

The ICT™ driver is housed in a plastic enclosure that has been optimally tuned to achieve maximum bass response and tonal balance.

For applications requiring extended low frequency enhancement, a range of Tannoy sub-bass systems are available and can be used in conjunction with the i5 MP.

2. Unpacking

Every Tannoy i5 MP is carefully tested and inspected before packing. After unpacking, please inspect your i5 MP for any damage sustained during 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 correct operating voltage, which is located on the same panel, and can be removed by unscrewing it from the panel. The fuse rating should match the operating voltage: 500mA/250V for 220-240V operation and 1A/125V for 100-120V operation. The fuse is 5mm x 20mm Time Delay, low rupture type. The fuse should, however, correspond to the set voltage when shipped.

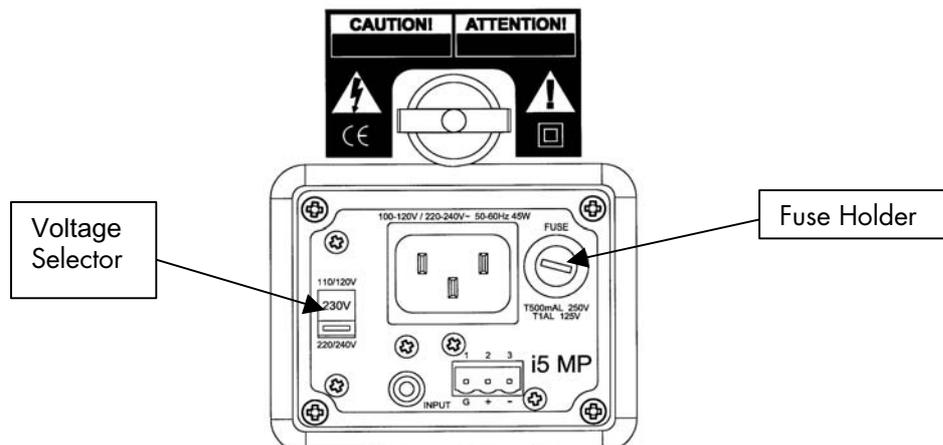


Figure 3a

4. Operation

4.1. Connectors/Cabling

The i5 MP is supplied with a Phono (RCA) and European Pluggable type connectors, for both balanced and unbalanced operation. The Phono plug is used for unbalanced operation, and the European type can be used for both balanced and unbalanced operation. The unit is powered via an IEC mains socket. See Figure 4a.

When shipped, the unit is set for unbalanced operation. For this, the European type plug must be connected with pins 1 and 3 linked. Use shielded single conductor cable and simply plug a phono connector into the phono socket. Alternatively, if the European pluggable type plug is used, wire the positive wire to pin 2 and the ground wire to pin 1 and leave the link in place.

For balanced operation, use twin conductor shielded cable (microphone cable) and wire the European pluggable type connector as shown in the chart below:

Pin 1	Ground (Screen)
Pin 2	Positive (+^{ve}, Red)
Pin 3	Negative (-^{ve}, Blue)

4.2. Powering

Before connecting the i5 MP to a mains inlet socket, ensure all other connections are correctly made. The i5 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 an IEC mains cable with the correct plug and rating for your country.

The i5 MP is designed to be powered continuously, but we recommend it is disconnected from the mains if it is to be left unused for a considerable period of time. An all pole mains switch with a contact separation of at least 3mm shall be incorporated in the electrical installation of the building.

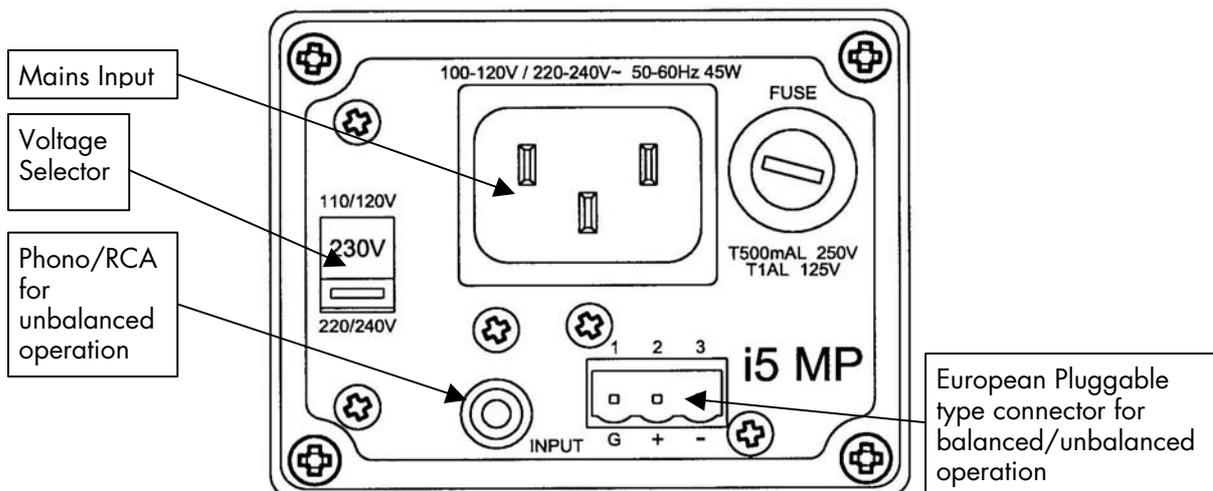


Figure 4a

4.3. Controls

The input level volume control is located on the front of the unit. This has been set to maximum when shipped. To adjust the level, simply remove the badge and adjust the gain using a screw driver.

5. Operation close to TV screens and video monitors

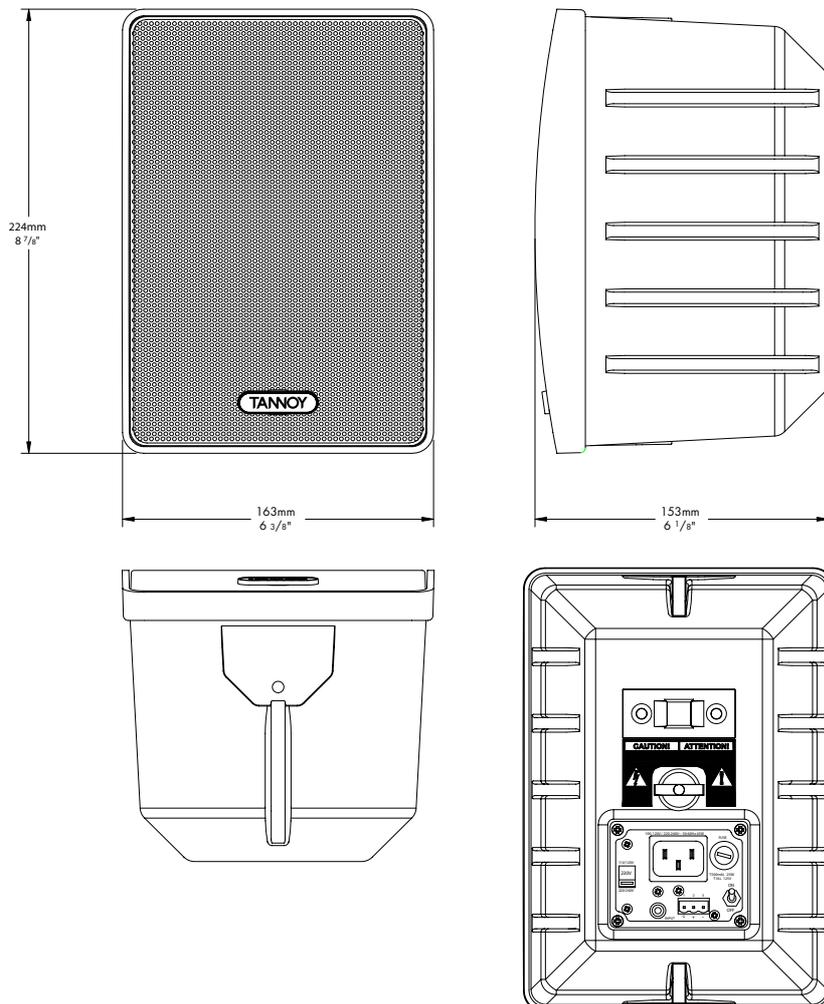
As the i5 MP contains a powerful magnet, avoid placing the unit closer than 6" to a TV screen or video monitor in order to avoid any picture distortion.

6. Equalisation

The i5 MP 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. Violent equalisation will be detrimental to the overall sound quality. If the loudspeakers were being used consistently at high levels it would be beneficial to introduce a high-pass filter at 70Hz to protect the loudspeaker from any unnecessary subsonic frequencies.

7. Dimensions



8. Hardware

The i5 MP can be wall or ceiling mounted using the MB5Y bracket (Figure 8a) or the MB5B (Figure 8c). Both are designed to offer maximum flexibility in selecting the desired angles. Methods of mounting have been demonstrated in Figures 8b & 8c.

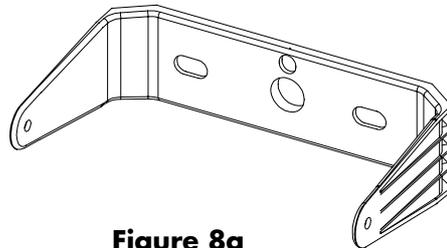


Figure 8a

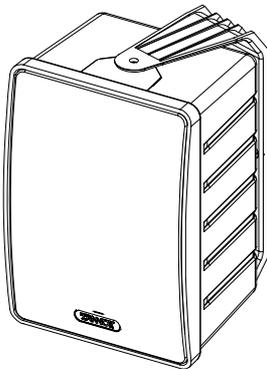


Figure 8b

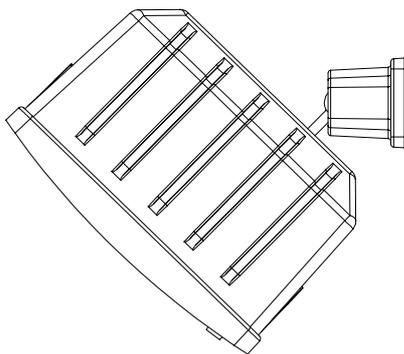
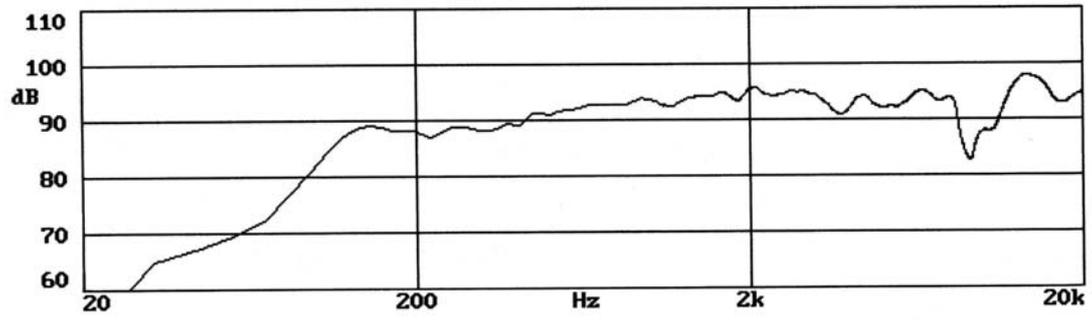


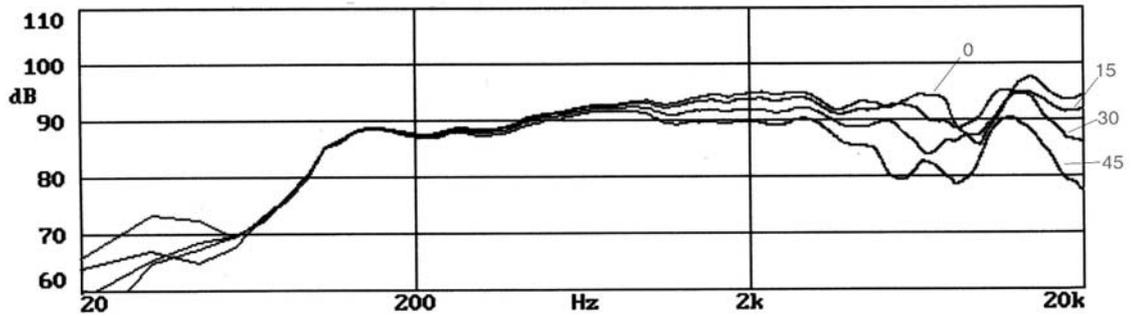
Figure 8c

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 damages caused by the improper installation of any bracket or loudspeaker.

9. Performance Data

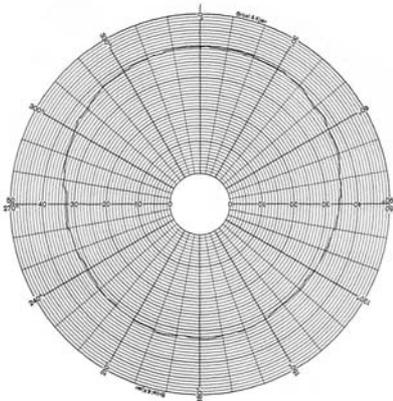


Frequency Response

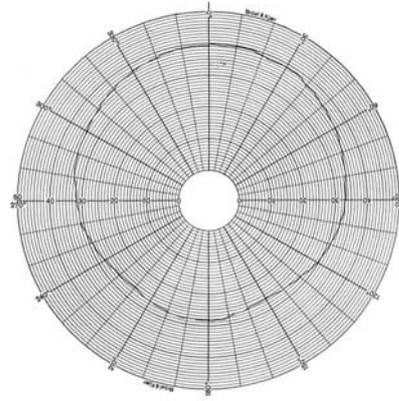


Off Axis Frequency Response

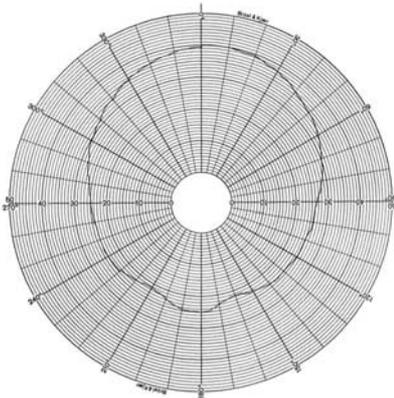
Polar Plots
1 Octave Band Pink Noise



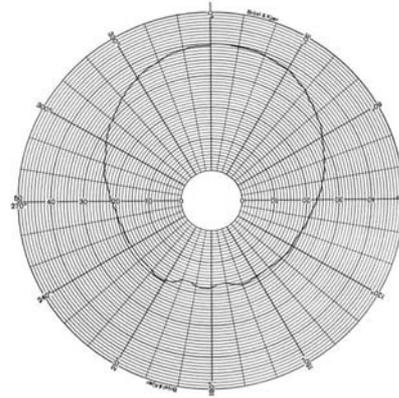
500 Hz



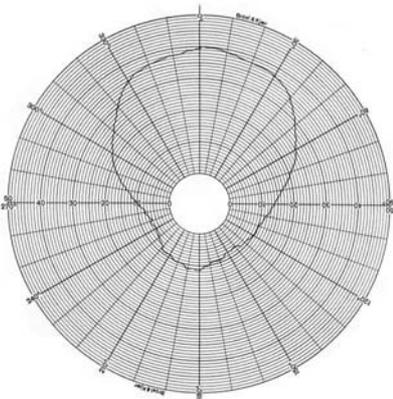
1 kHz



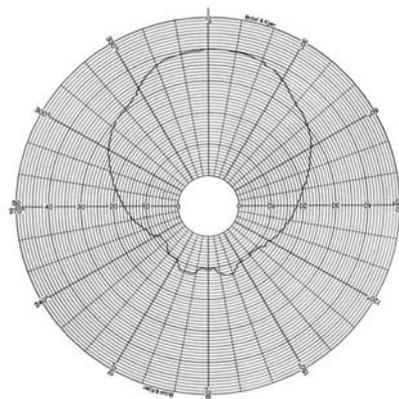
2 kHz



4 kHz



16 kHz



8 kHz

10. Technical Specifications

System Type	Multi-Purpose Loudspeaker										
Frequency Response +/- 3dB (1)	100Hz - 20kHz										
Maximum SPL (2)	105dB (average) 108dB (half-space)										
DI Averaged	<table> <tr> <td>@1kHz (ISO)</td> <td>3.9</td> </tr> <tr> <td>@2kHz (ISO)</td> <td>7.9</td> </tr> <tr> <td>@4kHz (ISO)</td> <td>8.6</td> </tr> <tr> <td>@8kHz (ISO)</td> <td>10.3</td> </tr> <tr> <td>@16kHz (ISO)</td> <td>9.2</td> </tr> </table>	@1kHz (ISO)	3.9	@2kHz (ISO)	7.9	@4kHz (ISO)	8.6	@8kHz (ISO)	10.3	@16kHz (ISO)	9.2
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@2kHz (ISO)	7.9										
@4kHz (ISO)	8.6										
@8kHz (ISO)	10.3										
@16kHz (ISO)	9.2										
Q Averaged	<table> <tr> <td>@1kHz (ISO)</td> <td>2.5</td> </tr> <tr> <td>@2kHz (ISO)</td> <td>6.1</td> </tr> <tr> <td>@4kHz (ISO)</td> <td>7.2</td> </tr> <tr> <td>@8kHz (ISO)</td> <td>10.7</td> </tr> <tr> <td>@16kHz (ISO)</td> <td>8.3</td> </tr> </table>	@1kHz (ISO)	2.5	@2kHz (ISO)	6.1	@4kHz (ISO)	7.2	@8kHz (ISO)	10.7	@16kHz (ISO)	8.3
@1kHz (ISO)	2.5										
@2kHz (ISO)	6.1										
@4kHz (ISO)	7.2										
@8kHz (ISO)	10.7										
@16kHz (ISO)	8.3										
Input Sensitivity (for Maximum Input)	375mV (balanced) 750mV (unbalanced)										
Input Impedance	10 kWatt										
Power Output	30 Watt										
Protection Circuitry	Thermal										
Supply	Mains voltage adjustable to 220-240V or 100-120V AC. Fuse: 250mV/250V for 220-240V 500mV/125V for 100-120V										
Power Consumption	45VA										
Driver Complement	1 x 127mm (5") ICT™ Point Source										
Enclosure	4.6 litre polypropylene										
Finish	Black or White										
Connectors	Balanced, Phoenix™ style 3 terminal in / unbalanced RCA in										
Fittings	2 x yoke fixing points 1 x female gimble plate										
Dimensions	223.5(H) 162.6(W) 153.0(D)mm 8.81"(H) 6.41"(W) 6.03"(D)										
Weight	2.9kg (6lbs 5oz)										
Accessories	MB5Y and MB5B mounting brackets										
Shipping Dimensions	302 x 168 x 168mm (12 7/8 x 6 3/8 x 6 3/8")										
Shipping Weight	3.1kg (6lbs 15oz)										

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.

11. IMPORTANT SAFETY INFORMATION

- Never expose the unit to moisture, water and extremes of temperature or humidity. Specifically, the unit must not be exposed to dripping or splashing and that no objects filled with liquids, such as glasses, 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. The unit must not be covered by articles such as newspapers, table cloths, curtains etc.
- 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 i5 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 is 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, PROCEED 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 ($\frac{\perp}{\text{—}}$), 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 be 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.



This equipment has undergone safety and EMC testing, and complies with the European Low Voltage Directive and Electromagnetic Compatibility Directive.

12. i5 MP Service Parts & Accessories

Part Number	Description
7900 0567	Driver Kit - 1273
7900 0749	Amplifier i5 MP
8001 1680	MB 5Y Bracket - Black
8001 1690	MB 5Y Bracket - White
8001 1470	MB 5B Bracket - Black
8001 1480	MB 5B Bracket - White

13. Warranty

No maintenance of the i5 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. Work under warranty should only be carried out by a Tannoy Professional dealer or service agent.

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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Scotland
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.

EASE™ Data for Tannoy Professional products available on request and from Tannoy's web site: <http://www.tannoy.com>

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