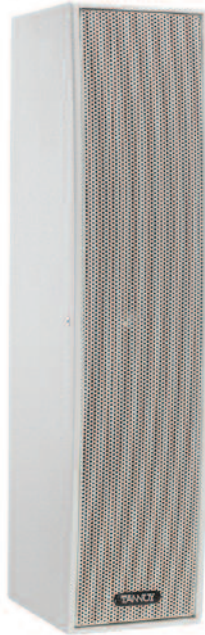




# i7

# TANNOY®



## Product Description

The Tannoy i7 is a tall and slim loudspeaker cabinet equipped with four 100mm (4.00") low frequency direct radiating drive units and one 25mm (1.00") titanium dome tweeter arranged as a line source.

Designed for use in acoustically difficult applications where controlled coverage is required, the dispersion characteristics of the i7 direct sound into the desired space while minimizing reflections from the ceiling. This makes it ideal for high quality music and speech reinforcement in highly reverberant environments ranging from houses of worship to retail environments and airports to conventions centres.

Available in either a charcoal or white painted finish, the shallow cabinet profile ensures discreet installations close to a wall or ceiling are possible without sacrificing vertical coverage.

The coupling effects in the vertical plane result in a narrow and controlled 70° coverage pattern while the horizontal coverage is an extremely wide 110°. The complex frequency shading and integration techniques employed in the internal passive crossover network result in a smooth and uniform frequency response from 100Hz to 20kHz.

A selector switch is located on the rear termination panel to allow the i7 to be installed as either a low impedance (8 Ohm) or 100V / 70.7V distributed line system. A rotary control adjusts the integral low insertion loss 60W transformer for 60, 30, 15, 7.5W operation.

Two versatile mounting brackets are available as optional accessories; the i7Y (yoke) and the i7 MAB (multiple angle bracket). These enable easy vertical, horizontal and tilt adjustment for fixed mount and flying applications.

## Features

- Slim line profile, allowing discreet installation
- Switchable 70 Volt / 100 Volt or 8 Ohms
- Multi tap voltage and wattage
- THP 60 line transformer providing low insertion loss resulting in a more dynamic performance with extended bandwidth
- Wide controlled dispersion (110° x 70° )
- Multiple angle bracket (i7 MAB) and i7 yoke
- Five year loudspeaker warranty

## Applications

- Reverberant spaces
- Foreground public address systems
- Aerobics and sports facilities
- Houses of worship
- Theme bars
- Retail environments
- Boardrooms and offices
- Airports, conventions centres and hotels

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## TECHNICAL SPECIFICATIONS

<b>System</b>	<b>i7</b>	
<b>Frequency Response (-3dB) <sup>(1)</sup></b>	90Hz - 20kHz	
<b>Frequency Range (-10dB) <sup>(1)</sup></b>	86Hz - 25kHz	
<b>System Sensitivity (1W @1m) <sup>(2)</sup></b>	89dB (1W = 2.83V for 8 Ohms)	
<b>Dispersion (-6dB)</b>	110 deg (H) x 50 deg (V)	
<b>Driver Complement</b>	4 x 100mm (4.00") bass unit, 1 x 25mm (1.00") titanium tweeter, partially horn loaded	
<b>Crossover</b>	Passive, 1.8 kHz, 2.5 kHz	
<b>Directivity Factor (Q)</b>	9, averaged 1kHz to 10kHz	
<b>Directivity Index (DI)</b>	8.9, averaged 1kHz to 10kHz	
<b>Rated Maximum SPL <sup>(2)</sup></b>		
Average	108dB	
Average	106.5dB - 60W tapping on transformer	
Peak	114dB	
<b>Power Handling</b>		
Average	90W	
Programme	180W	
Peak	360W	
<b>Recommended Amplifier Power</b>	180W @ 8 Ohms	
<b>Nominal Impedance</b>	8 Ohms	
<b>Transformer Taps (rear rotary switch)</b>		
70V	60W / 30W / 15W / 7.5W / OFF & Low impedance operation	
100V	60W / 30W / 15W / OFF & Low impedance operation	
<b>Distortion</b>		
<b>10% Full Power (8.48V)</b>	2nd Harmonic	3rd Harmonic
250Hz	0.10%	0.27%
1kHz	0.08%	0.33%
10kHz	0.34%	0.04%
<b>1% Full Power (2.83V)</b>	2nd Harmonic	3rd Harmonic
250Hz	0.06%	0.20%
1kHz	0.03%	0.24%
10kHz	0.17%	0.13%

<b>Construction</b>	
<b>Enclosure</b>	8.0 litre MDF infinite baffle
<b>Grille</b>	Perforated steel, powder coated.
<b>Finish</b>	Textured black or white paint - paintable, with custom colours on request
<b>Connectors</b>	2 x Speakon NL4MP IN / OUT
<b>Fittings</b>	2 x M10 threaded inserts for i7Y & i7 MAB brackets
<b>Mounting Options</b>	(i7 MAB) Multiple angle bracket, (i7Y) Yoke
<b>Dimensions</b>	240.7 x 155 x 162mm (H x W x D) (9.47 x 6.10 x 6.38") (H x W x D)
<b>NET Weight</b>	9kg (19.8lbs)

**Notes:**

(1) Average over stated bandwidth. Measured at 1 metre on axis.

(2) Unweighted pink noise input, measured at 1 metre in an anechoic chamber

A full range of measurements, performance data, CLF and Ease™ Data can be downloaded from [www.tannoy.com](http://www.tannoy.com)

Full independent verification of published specifications carried out by NWAALabs, California can also be obtained from the downloads section of [www.tannoy.com](http://www.tannoy.com)

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 reserves the right to alter without prior notice. Please verify the latest specifications when dealing with critical applications.

### Ordering Information

PART NUMBER	MODEL NAME	COLOUR	PACKED QUANTITY
8001 3200	i7	Black	1
8001 3201	i7	White	1

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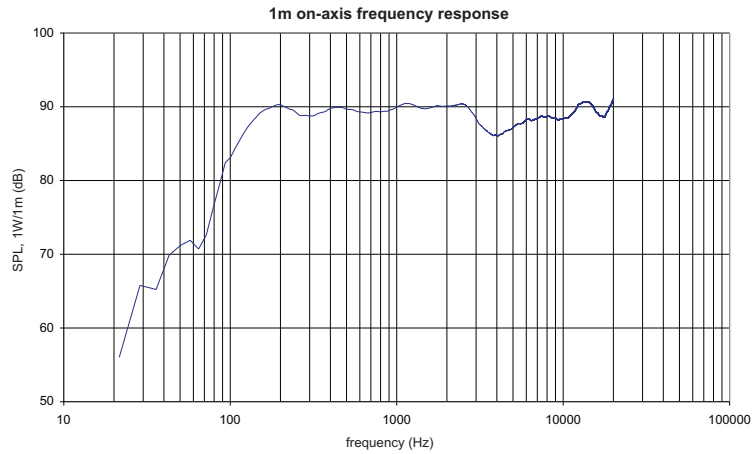
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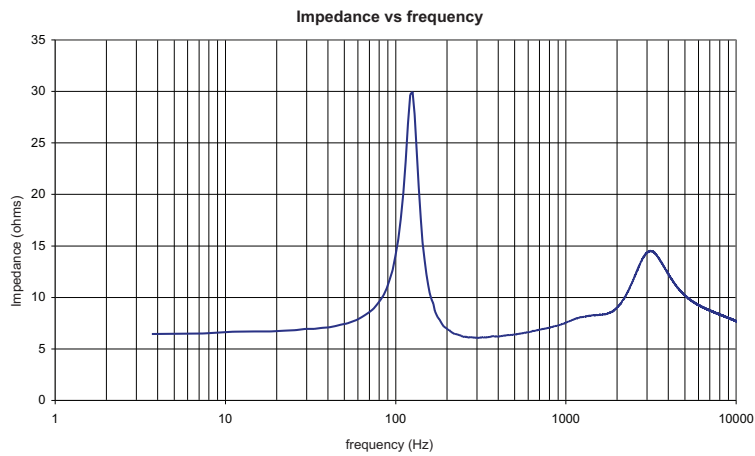
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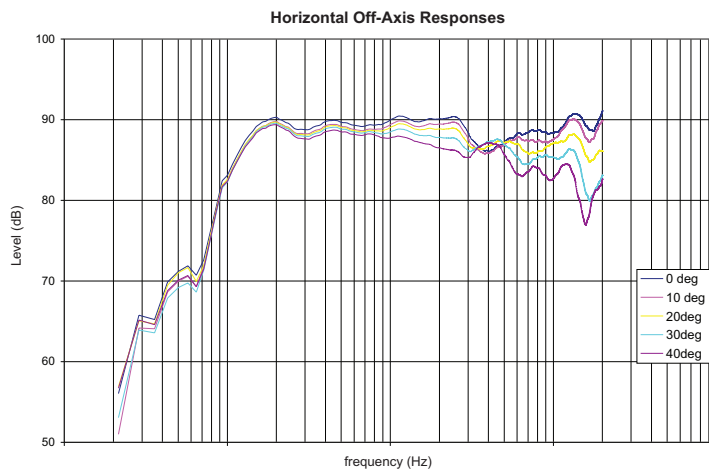
## PERFORMANCE MEASUREMENTS



**ANECHOIC  
FREQUENCY  
RESPONSE**



**IMPEDANCE**



**OFF AXIS  
RESPONSE**

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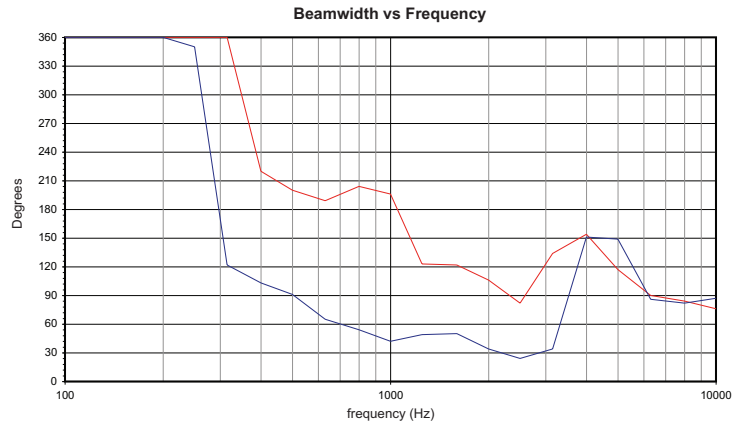
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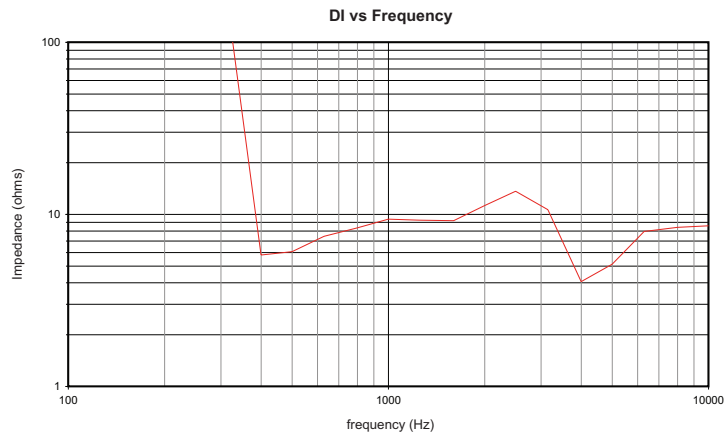
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## PERFORMANCE MEASUREMENTS



BEAMWIDTH



DIRECTIVITY INDEX

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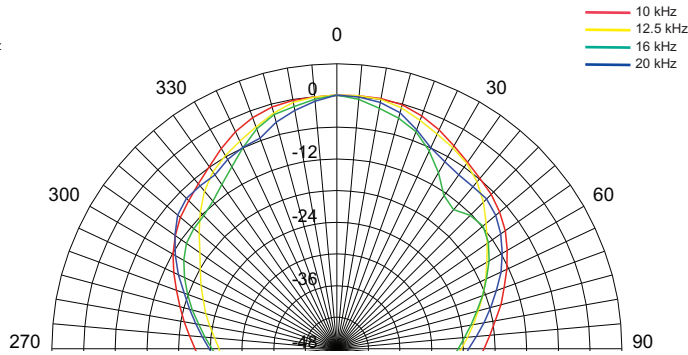
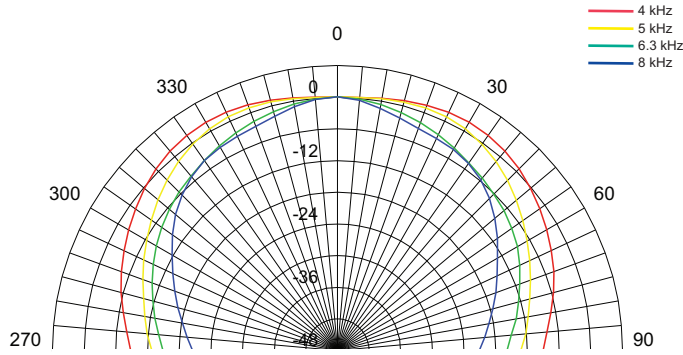
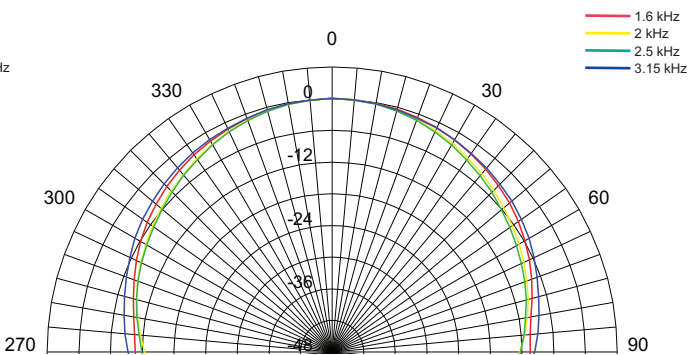
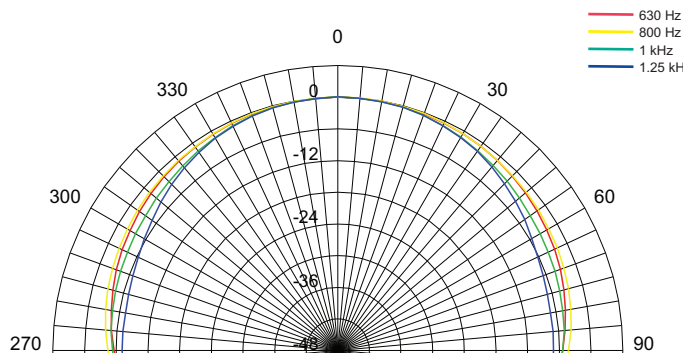
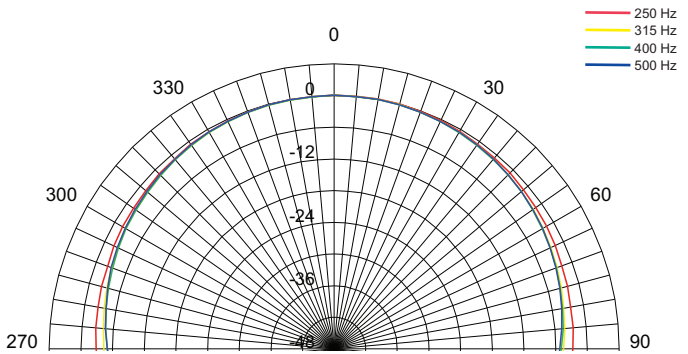
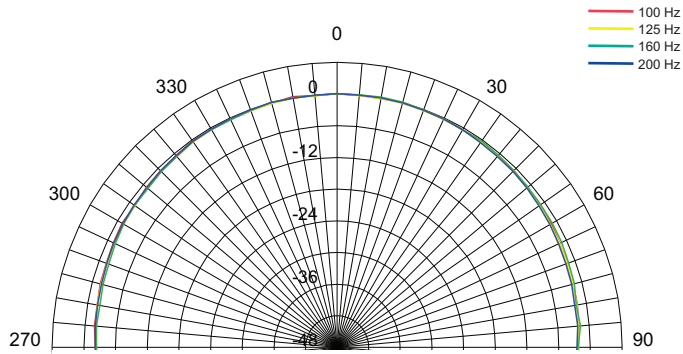
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### PERFORMANCE MEASUREMENTS POLAR PLOTS (1/3 OCTAVE)



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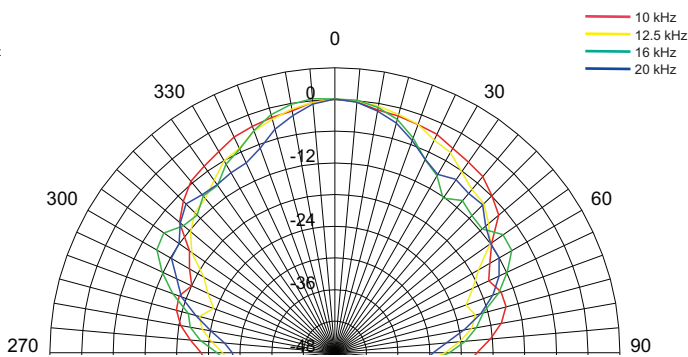
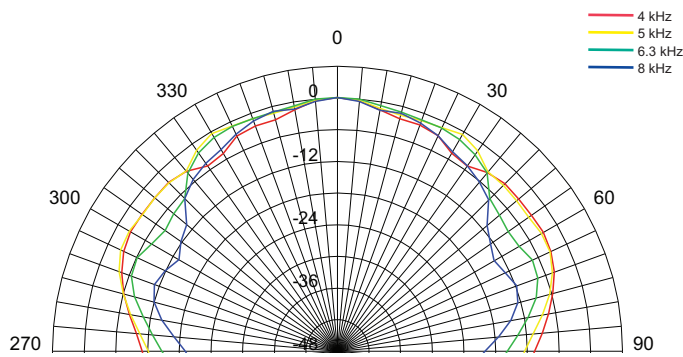
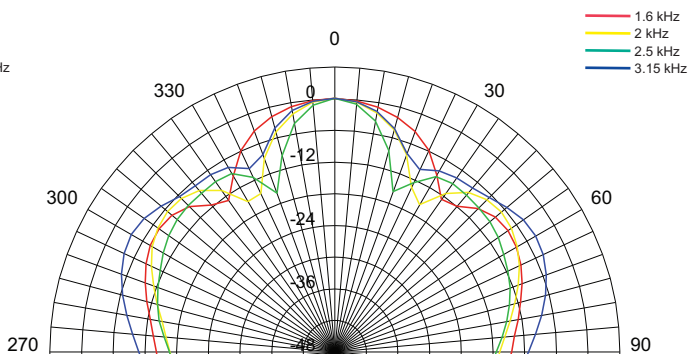
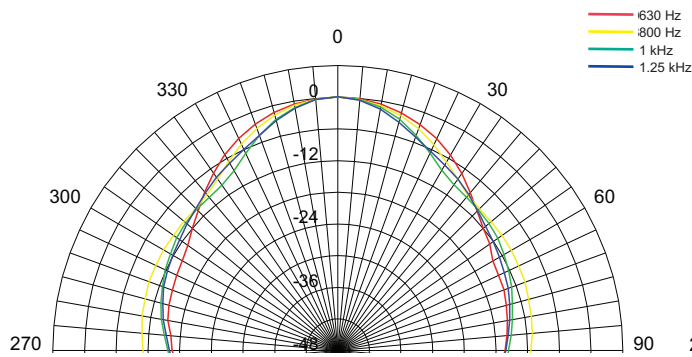
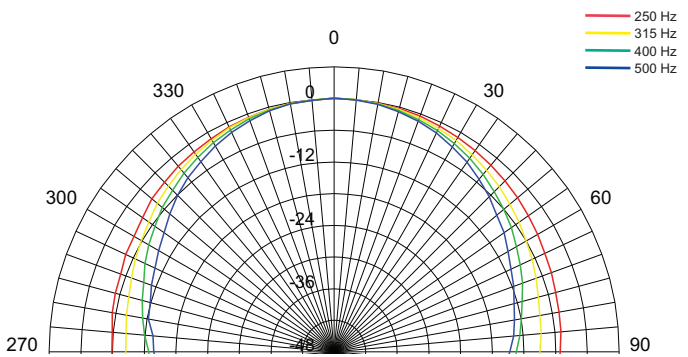
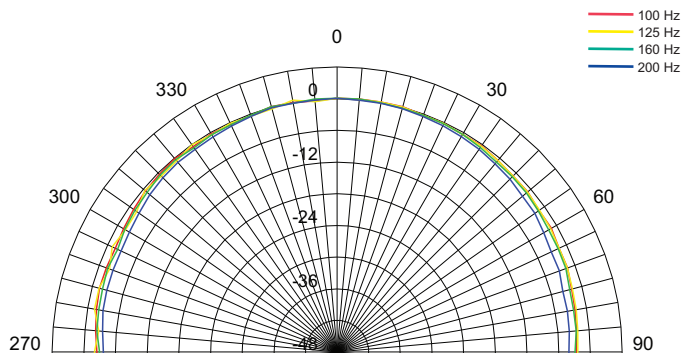
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## PERFORMANCE MEASUREMENTS POLAR PLOTS (1/3 OCTAVE)



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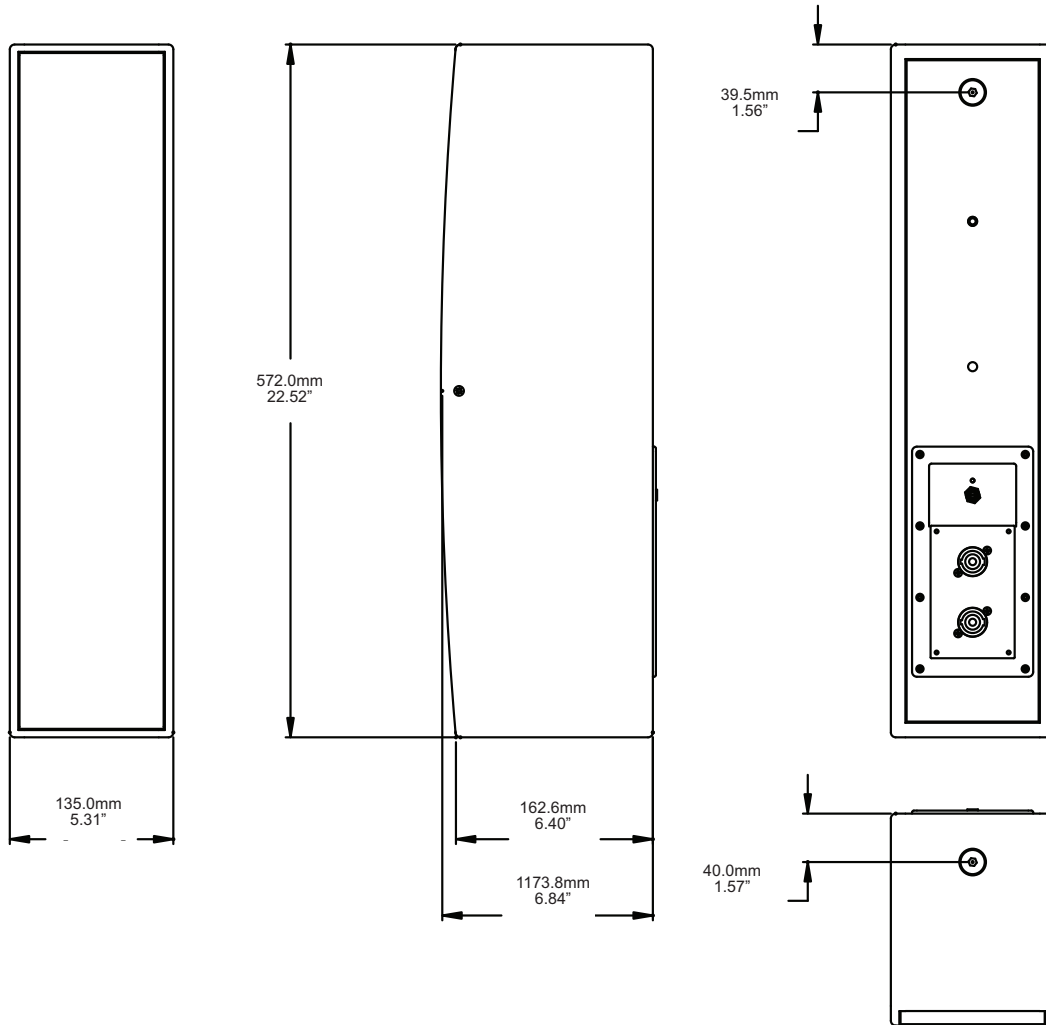
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DIMENSIONAL SKETCHES



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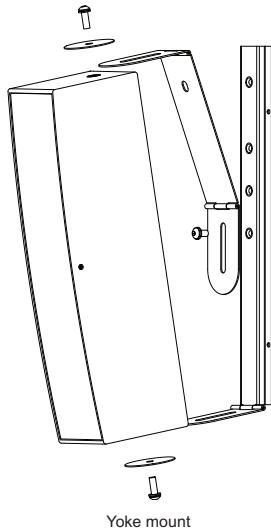
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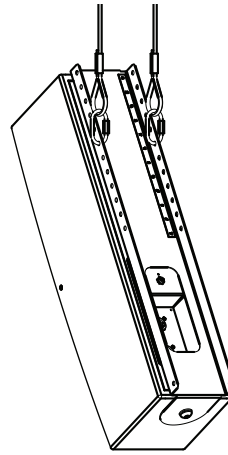
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## MOUNTING OPTIONS & HARDWARE



Yoke mount



Multi Angle bracket

### Ordering Information

PART NUMBER	MODEL NAME	COLOUR	PACKED QUANTITY
8001 3210	i7 Y	Black	1
8001 3211	i7 Y	White	1
8001 3220	i7 MAB	Black	1
8001 3221	i7 MAB	White	1

### Architectural specifications

The column source loudspeaker system shall consist of four 100mm (4.00") low frequency drivers and one 25mm (1.00") high frequency driver. All five sources (LF and HF) shall be positioned vertically as a line source.

The i7 shall be used in both low impedance 8 Ohm and 70 / 100 Volt distributed audio systems utilizing the THP 60 high performance transformer with 60,30, 15, & 7.5\* Watt taps available. An easily accessible switch on the rear panel shall be available for selecting transformer and low impedance settings.

Performance of the i7 shall meet or exceed the following criteria: The system shall have a nominal coverage pattern of 110° horizontal by 50° vertical. Frequency response measured at 1m on axis with swept sine wave shall be 90Hz to 20kHz (- 3dB). Sensitivity shall be at least 89dB (anechoic) for 2.83 Volt @ 1 meter. The system shall have a nominal impedance of 8 Ohms, maximum power handling shall be 180 Watts (programme).

The enclosure shall be rectangular in shape. The MDF enclosure shall be of an infinite baffle design, finished in textured black or white paint, the front of the cabinet shall be covered by a perforated steel grille. The enclosure shall not exceed the following dimensions. 240.70 x 155 x 162mm (9.47 x 6.10 x 6.38") (HxWxD).

The loudspeaker system shall be the Tannoy...i7.

\*On 70 Volt systems only

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NOTES

Grid area for notes

Horizontal lines for notes

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