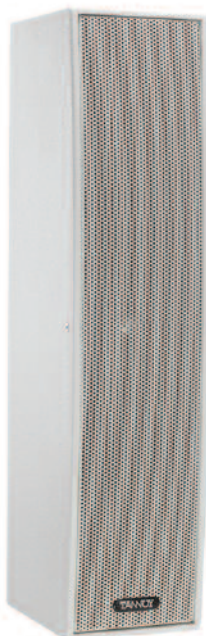




i7

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 50 degrees coverage pattern while the horizontal coverage is an extremely wide 110 degrees. 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 Ohms) 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 degrees x 50 degrees)
- 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

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

Construction	
Enclosure	8.0 litre MDF infinite baffle
Grille	Perforated steel, powder coated.
Finish	Textured black or white paint - paintable, with custom colours on request
Connectors	2 x Speakon NL4MP IN / OUT
Fittings	2 x M10 threaded inserts for i7Y & i7 MAB brackets
Mounting Options	(i7 MAB) Multiple angle bracket, (i7Y) Yoke
Dimensions	572 x 135 x 173.8mm (H x W x D) (22.52 x 5.31 x 6.84") (H x W x D)
NET Weight	9kg (19.13lbs)

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

Full independent verification of published specifications carried out by NWAALabs, California can also be obtained from the downloads section of 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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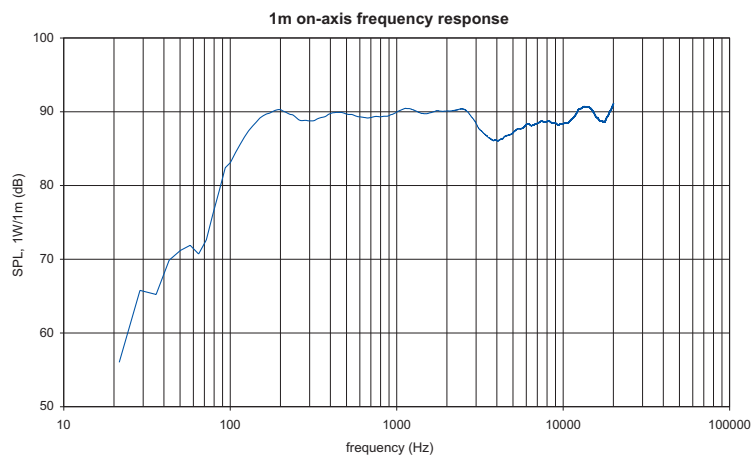


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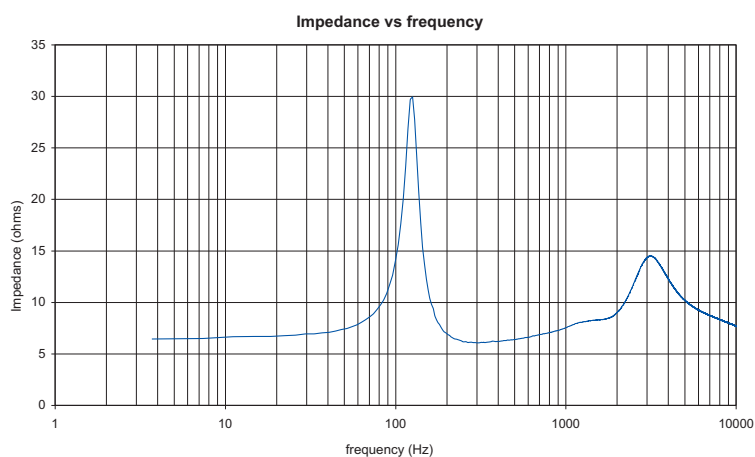
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PERFORMANCE MEASUREMENTS

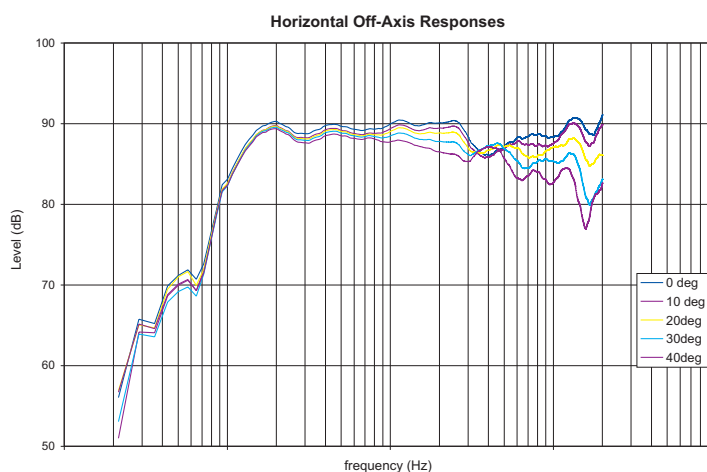
ANECHOIC FREQUENCY RESPONSE



IMPEDANCE



OFF AXIS RESPONSE



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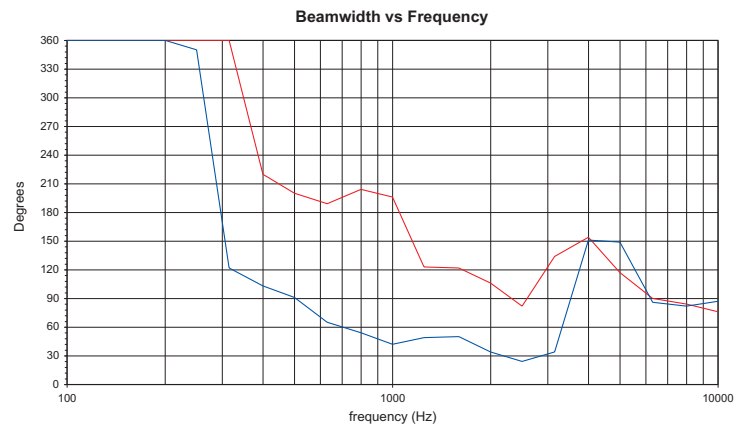
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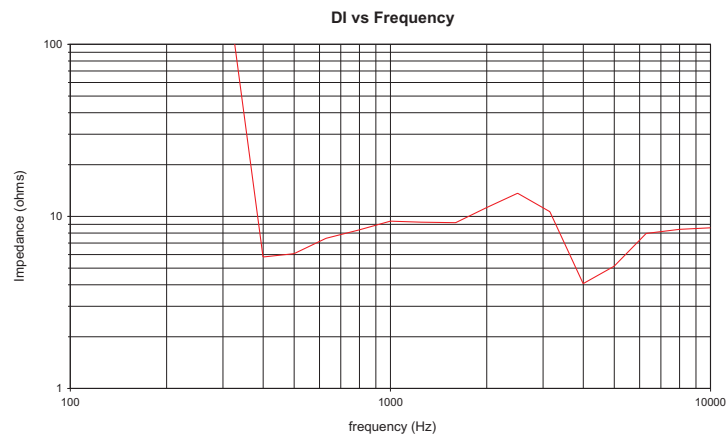
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PERFORMANCE MEASUREMENTS



BEAMWIDTH



DIRECTIVITY INDEX

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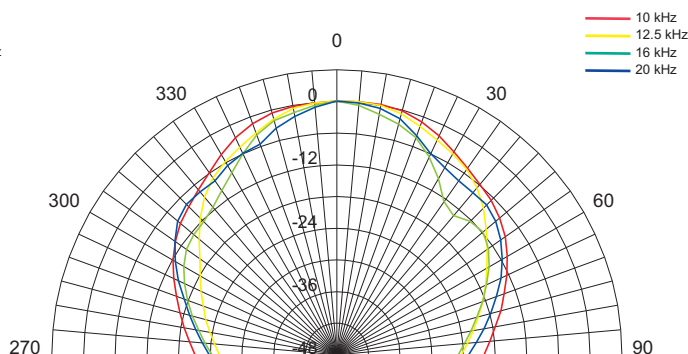
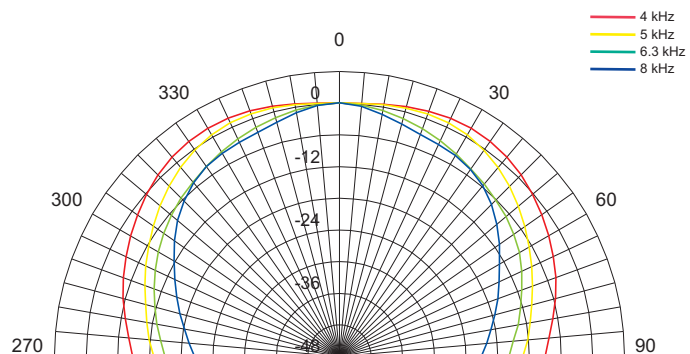
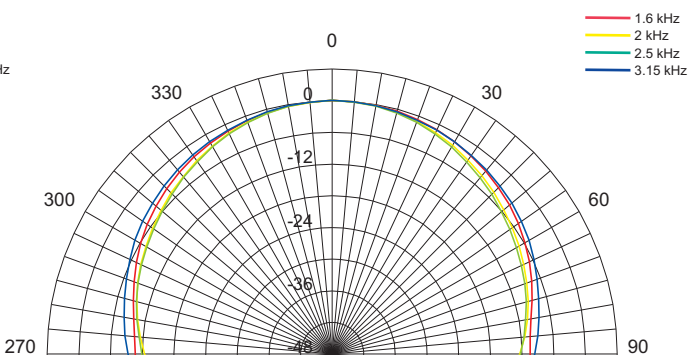
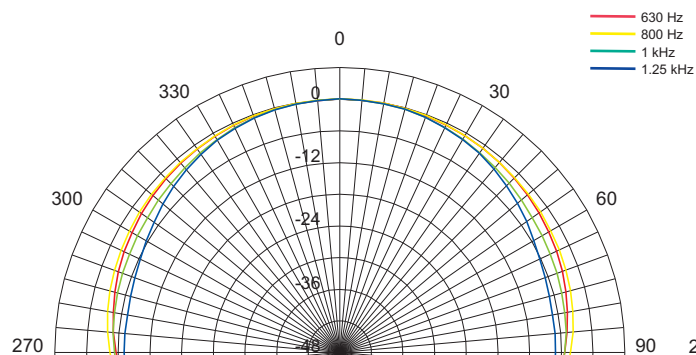
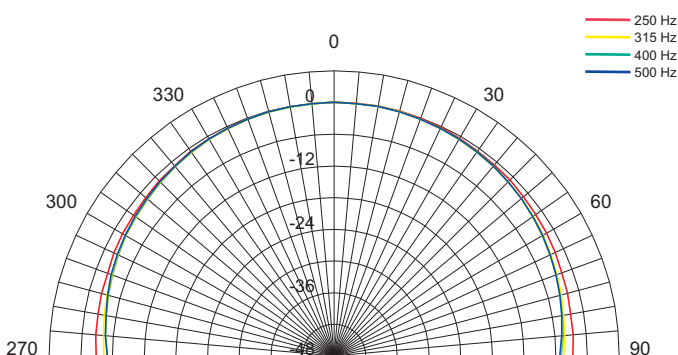
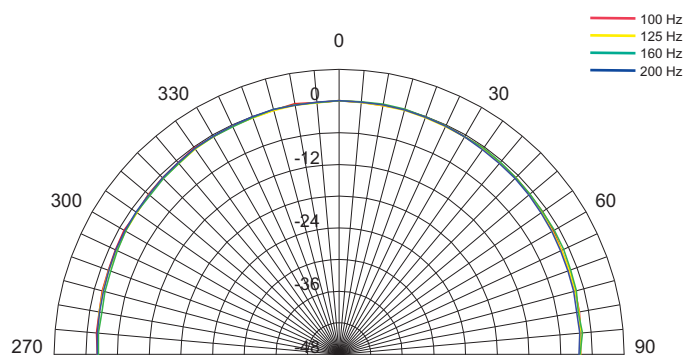
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PERFORMANCE MEASUREMENTS POLAR PLOTS (1/3 OCTAVE)



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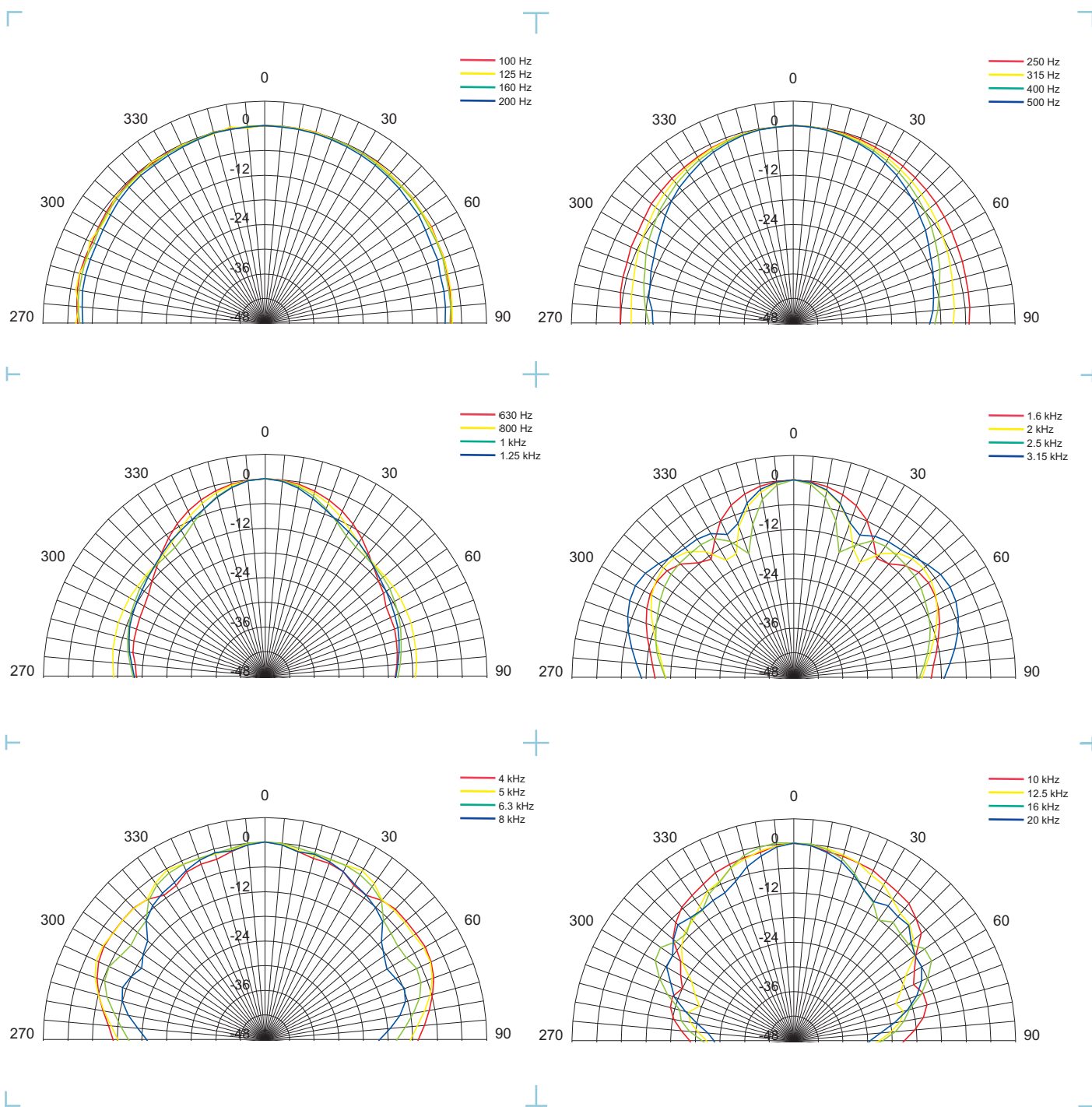
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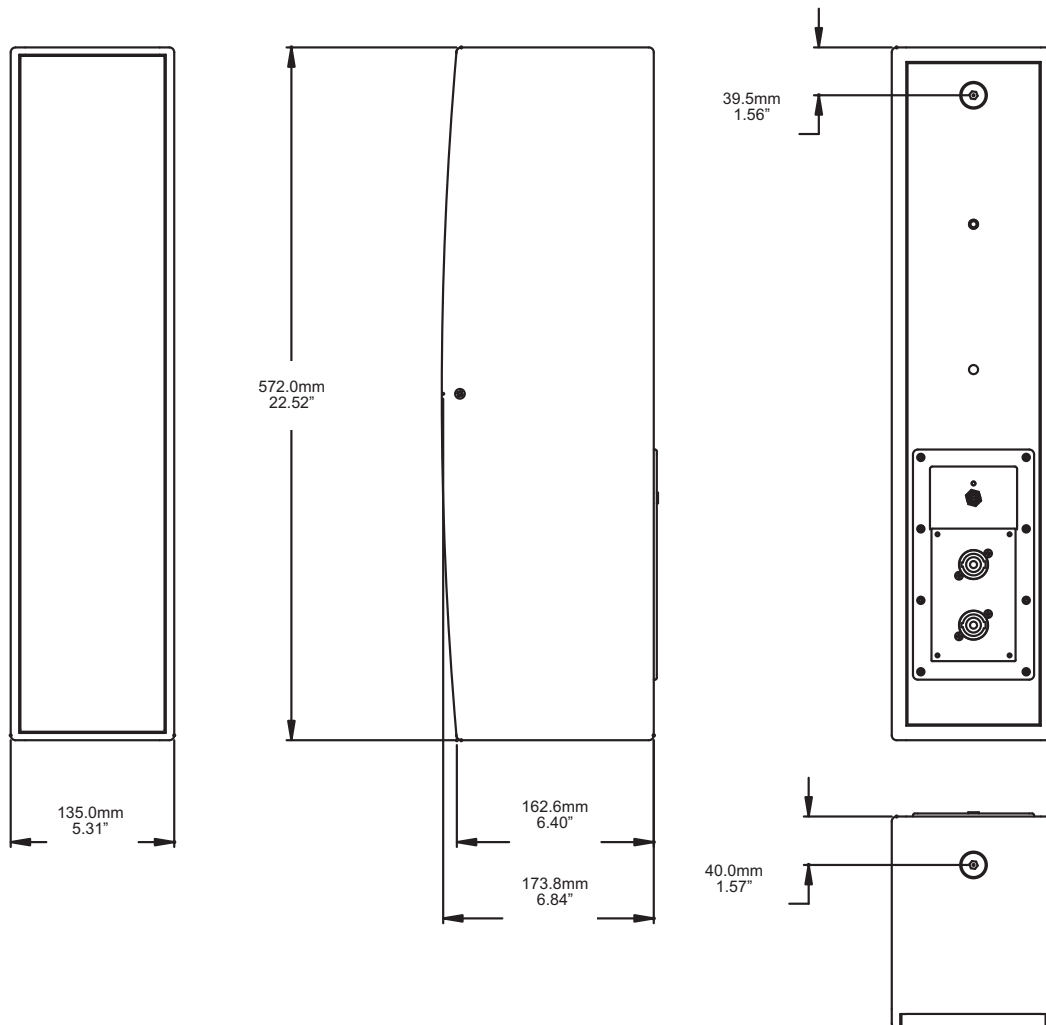
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DIMENSIONAL SKETCHES



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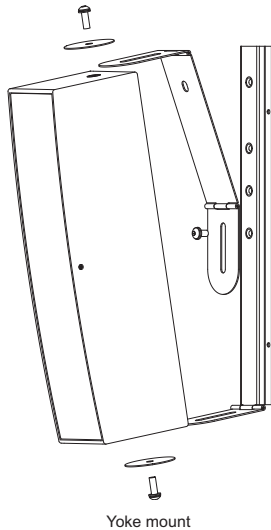
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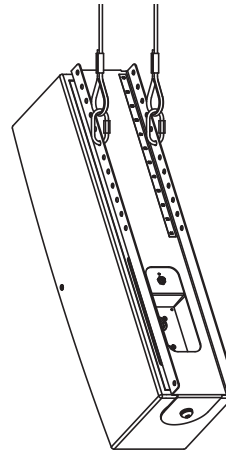
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MOUNTING OPTIONS & HARDWARE



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 degrees horizontal by 50 degrees 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. 572 x 135 x 173.8mm 22.52 x 5.31 x 6.84" (H x W x D).

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

*On 70 Volt systems only

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