



## Product Description

Conceived, engineered and built with precision in the United Kingdom, VX Series represents the latest evolution of Tannoy's core philosophies in professional loudspeaker design. VX 5.2 is a new type of device, adding new capabilities to the range with its exceptional acoustic clarity, precise definition and balanced acoustical performance. It provides a sonically superior solution for small-scale performance sound reinforcement as well as high performance speech reproduction where clarity and natural vocal reproduction are paramount. The VX 5.2 been sonically matched with the wider range of VXP Series models, this allows consistency in installations where a mix of products is utilised.

The VX 5.2 is built around two discrete transducers, a 125 mm (5") Dual Concentric™ driver and a 125 mm (5") bass driver for low-mid extension. Both are mounted in a rugged birch plywood cabinet with aesthetically profiled edges and Airtnet™-backed, powder-coated steel grille. The latest high power-handling 125 mm (5") version of Tannoy's exclusive point source, constant directivity Dual Concentric drive unit technology ensures high power output with high sensitivity and exceptional efficiency. VX 5.2 delivers a well defined 120 degree horizontal by 90 degree vertical dispersion for optimum coverage, exceptional forward gain plus the added benefit of improved low-mid extension from the new twin driver configuration.

Audio connection is via connector strip or NL 4MP speakON located on the termination panel. An extensive range of high performance steel mounting hardware, custom designed for VX 5.2 includes a yoke bracket and omni-mount for wall and ceiling location and eyebolt location points. For absolute security and installers' peace of mind, all hardware has been tested and certified to guarantee greater than 5:1 safety ratio.

The VX 5.2 is available in black or white textured paint finish as standard (with matching grilles), and is also available in custom matched RAL colours as an option. The optional weather protected specification (WP) includes LINE-X cabinet outer-coating, internal sealing and treated transducers with perforated Grade 316 stainless steel grilles. All steel hardware is upgraded to Grade 304 stainless steel, while all connector panel points are protected by a cover plate and weather-proof cable gland. Additional ordering lead time applies to all non-standard specifications.

## Features

- 125 mm (5") Dual Concentric full-range driver and 125 mm (5") bass driver
- Well defined 120 x 90 degree dispersion for optimum coverage and forward gain
- Peak output 117 dB SPL @ 1 m, recommended amp power 280 W @ 8 ohms
- Versatile mounting via optional custom designed hardware
- Exceptional sound and performance in a highly compact cabinet
- Rugged birch plywood enclosure
- Available in black or white textured paint finish – custom colours optional
- Available in weather protected specification (optional)
- Engineered and built in UK

## Applications

- Theatres, Auditoria and Houses of Worship
- Small scale PA and compact voice reinforcement
- Bars and in-fill for nightclubs
- Portable and installed corporate AV
- Theme parks and leisure venues
- Gymnasiums and small/medium sports arenas

Tannoy (Direct UK)  
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## TECHNICAL SPECIFICATIONS

System	VX 5.2	
Frequency Response (-3 dB) <sup>(1)</sup>	87 Hz - 35 kHz	
Frequency Range (-10 dB) <sup>(1)</sup>	65 Hz - 45 kHz	
System Sensitivity (1 W @ 1 m) <sup>(2)</sup>	90 dB (1 W = 2.83 V for 8 ohms)	
Dispersion (-6 dB)	120 degrees (H) x 90 degrees (V)	
Driver Complement	1 x 125 mm (5") constant directivity Dual Concentric 1 x 125 mm (5") bass driver	
Crossover	Passive 2 kHz with dynamic HF protection	
Directivity Factor (Q)	7.3 (averaged 1 kHz to 8 kHz)	
Directivity Index (DI)	8.6 dB (averaged 1 kHz to 8 kHz)	
Rated Maximum SPL <sup>(2)</sup>	111 dB (average) 117 dB (peak)	
Power Handling		
Average	130 W	
Programme	260 W	
Peak	520 W	
Recommended Amplifier Power	260 W @ 8 ohms	
Nominal Impedance	8 ohms	
Distortion		
10% Full Power (10.2 V)	2nd Harmonic	3rd Harmonic
250 Hz	2.85%	0.52%
1 kHz	0.56%	0.31%
10 kHz	1.24%	0.15%
1% Full Power (3.23 V)	2nd Harmonic	3rd Harmonic
250 Hz	0.70%	0.17%
1 kHz	0.08%	0.26%
10 kHz	0.41%	0.10%

Construction	
Enclosure	6.7 litre birch plywood, vented and internally braced.
Finish	Textured black or white paint, with custom colours on request. Powder-coated perforated steel grille, Airnet cloth behind.
Connectors	1 x speakON NL 4MP, 2 x 4 mm binding posts
Fittings	2 x M6 yoke bracket inserts (4mm allen key), Fixings compatible with Omnimount and Powerdrive style brackets 4 x M6 inserts
Dimensions	333 x 180 x 200 mm (HxWxD) 13.1 x 7.1 x 7.9" (HxWxD)
Net weight	5 kg (11 lbs)
Shipped weight	10.5 kg (23.1 lbs)
Packed quantity	2

### Notes

(1) Average over stated bandwidth. Measured at 1 metre on axis in an anechoic chamber.

(2) Unweighted pink noise input, measured at 1 metre in an anechoic chamber. A full range of measurements, performance data, and Ease™ Data can be downloaded at [www.tannoy.com](http://www.tannoy.com).

Tannoy is committed to a policy of continuous improvement through research and development. Though performance will equal or exceed published specifications, new materials or manufacturing processes could introduce variances. All figures are subject to change without notice. For critical applications, please confirm current specifications with your supplier or visit the Tannoy website at [www.tannoy.com](http://www.tannoy.com).

## Ordering Information

PART NUMBER	MODEL NAME	COLOUR	PACKED QUANTITY
8001 6310	VX 5.2	BLACK	2
8001 6311	VX 5.2	WHITE	2

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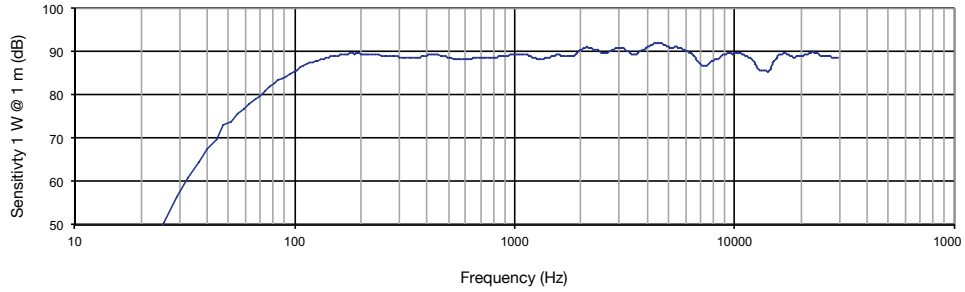
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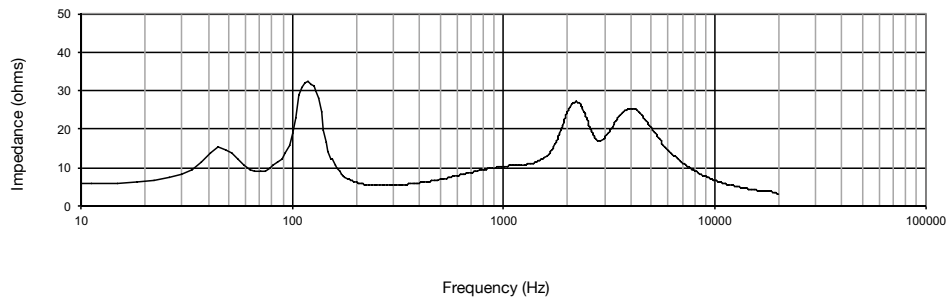
## PERFORMANCE MEASUREMENTS

1 m on-axis Frequency Response



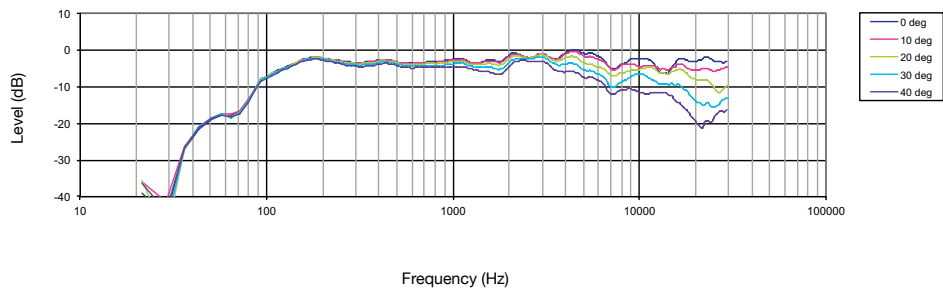
### ANECHOIC FREQUENCY RESPONSE

Impedance vs frequency



### IMPEDANCE

Horizontal off-axis Frequency Response



### HORIZONTAL OFF-AXIS RESPONSE

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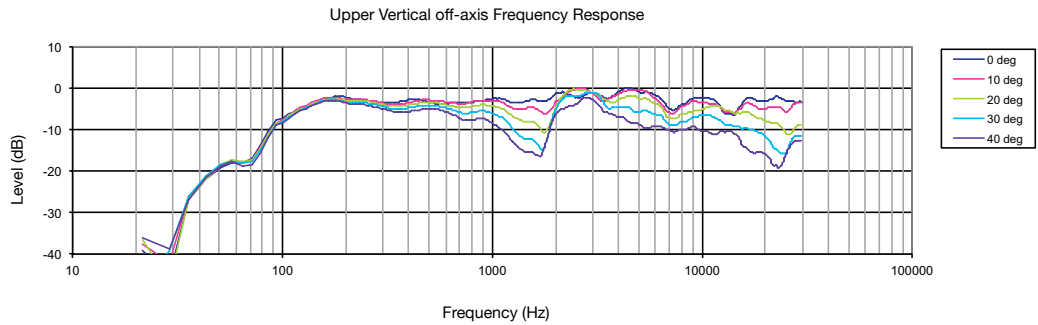
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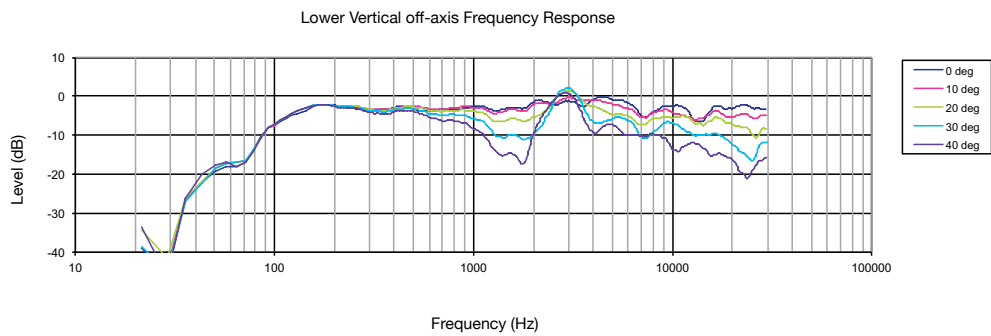
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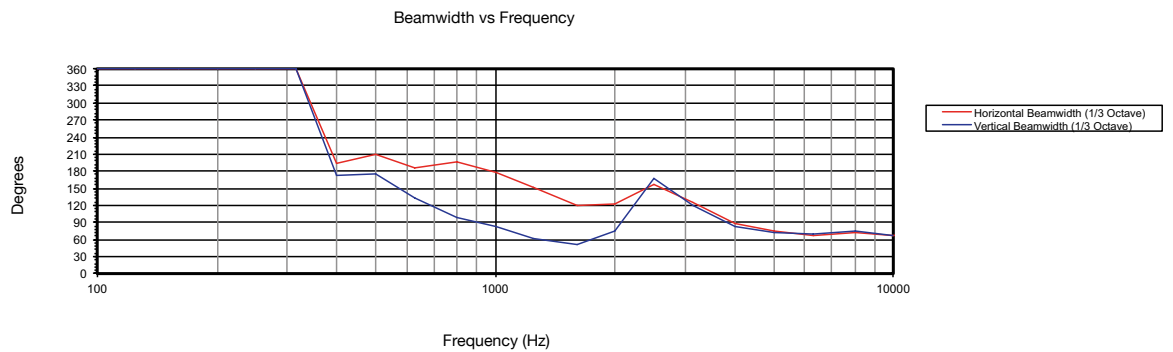
## PERFORMANCE MEASUREMENTS



UPPER VERTICAL OFF-AXIS RESPONSE



LOWER VERTICAL OFF-AXIS RESPONSE



BEAMWIDTH

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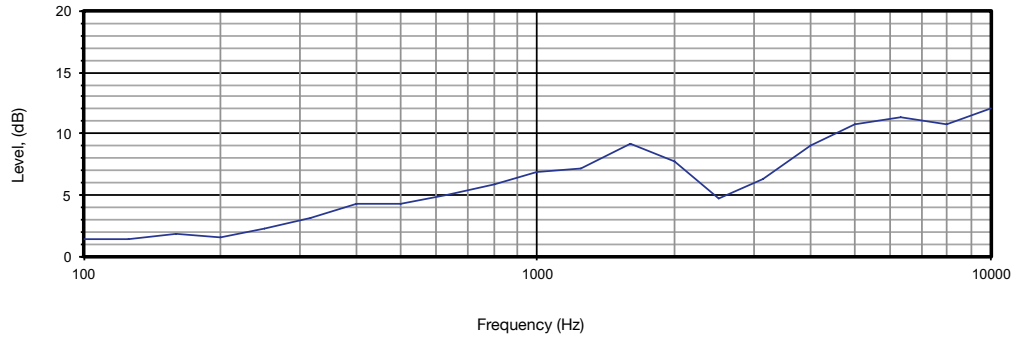
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## PERFORMANCE MEASUREMENTS

DI vs Frequency



### DIRECTIVITY INDEX (DI)

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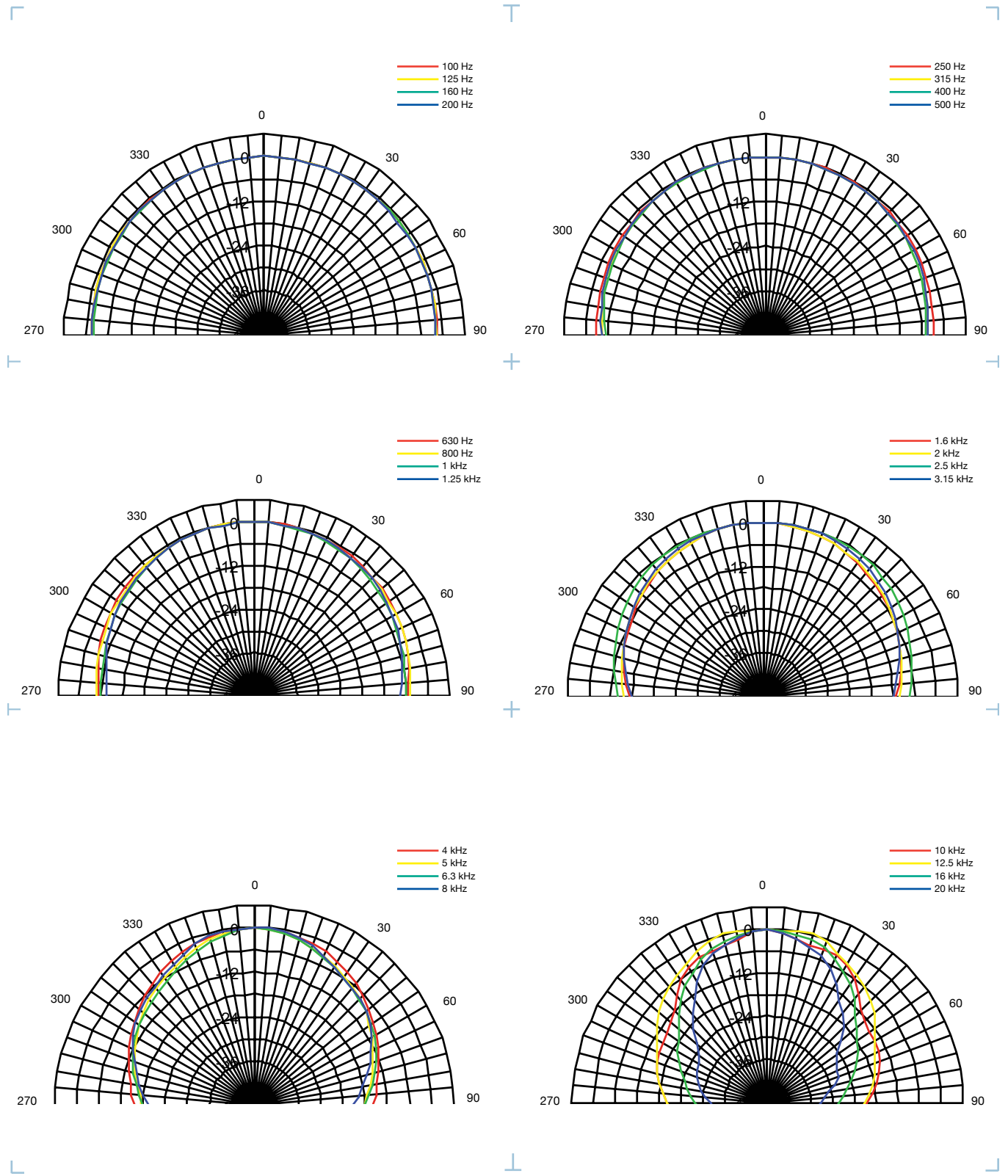
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## PERFORMANCE MEASUREMENTS POLAR PLOTS (1/3 OCTAVE)



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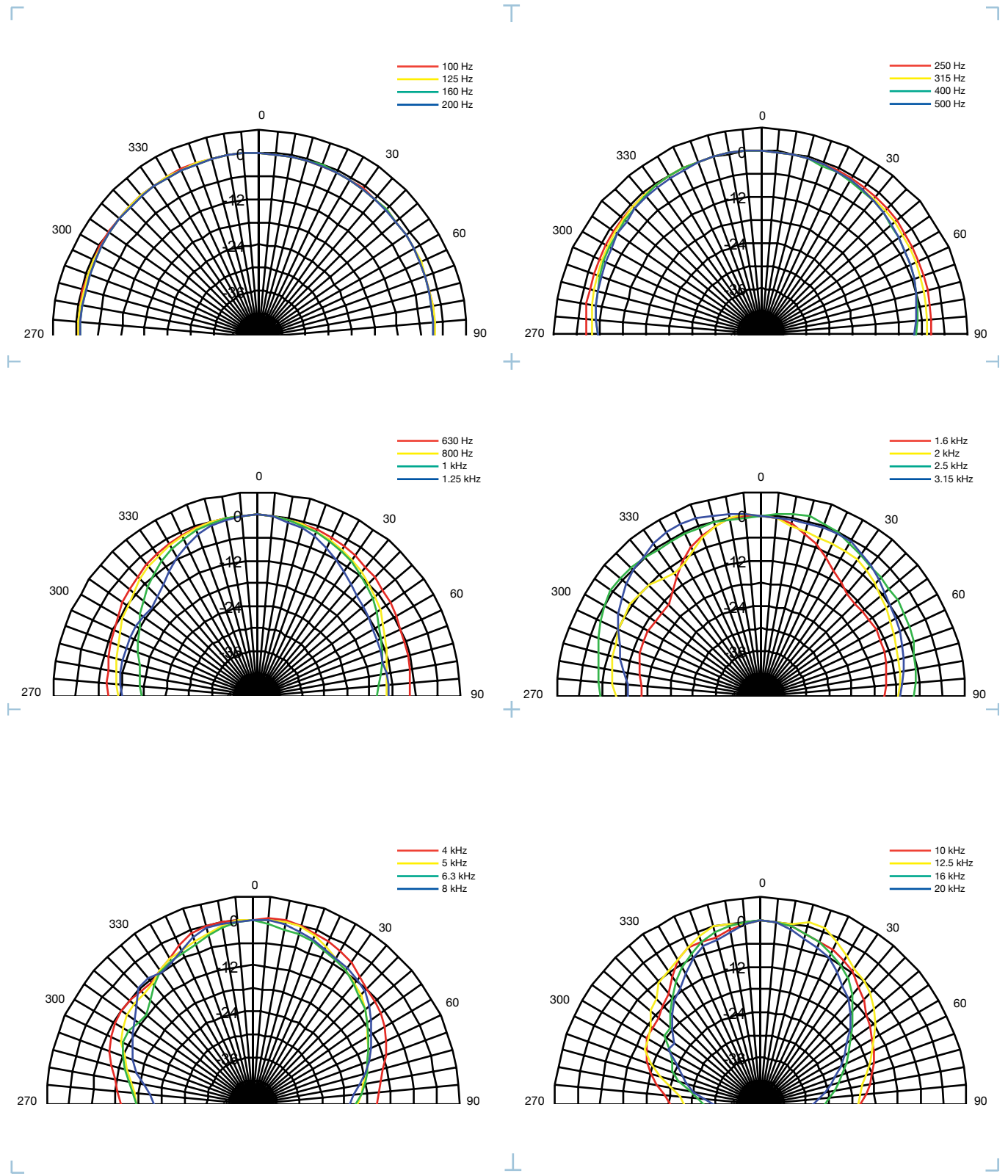
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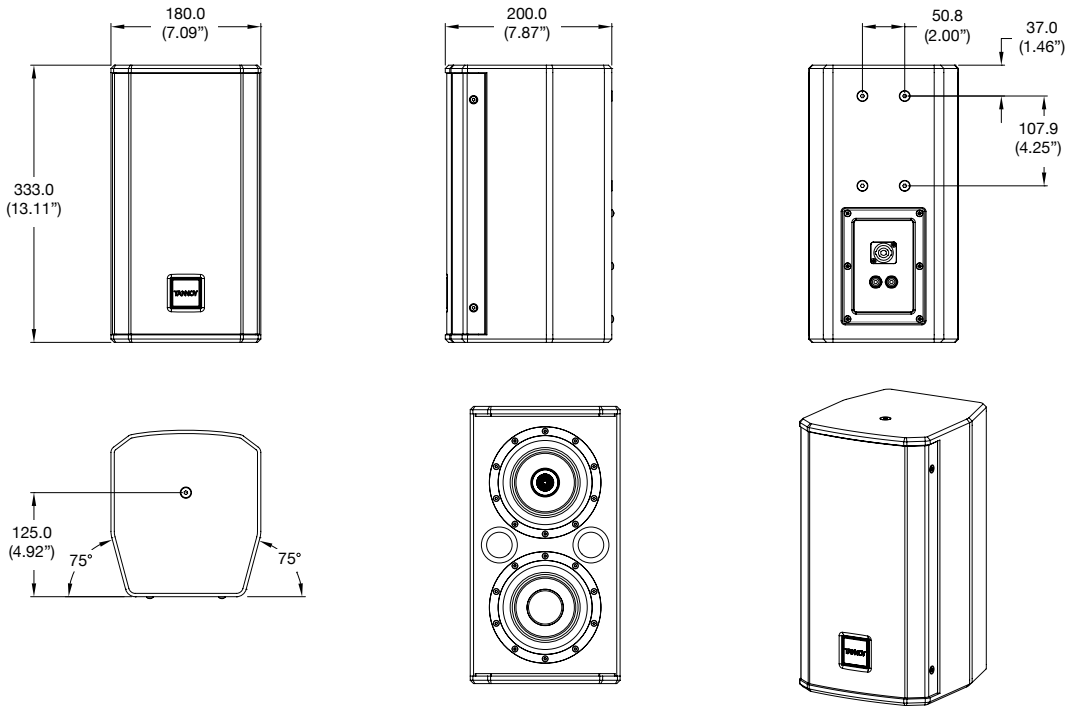
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## DIMENSIONAL SKETCHES



### Architectural specifications

The loudspeaker shall consist of a 125 mm (5") full range, single point source Dual Concentric transducer and a 125 mm (5") low-mid transducer. The low and the high frequency elements of the Dual Concentric shall be combined by an internal passive crossover network operating at 2 kHz.

Performance of the loudspeaker, without any external electronic control, shall meet or exceed the following criteria:

Frequency response measured at 1 metre on axis with swept sine wave shall be 87 Hz – 35 kHz (-3 dB). Sensitivity shall be at least 90 dB (anechoic) 1 watt @ 1 metre and the loudspeaker shall be capable of producing a peak output level of 117 dB (anechoic) on axis at 1 metre. Dispersion shall be 120 degrees horizontal by 90 degrees vertical (-6 dB). The system shall have a nominal impedance of 8 ohms. Long-term power handling (EIA-426B) shall be 130 watts and recommended amplifier power shall be 260 watts.

The enclosure shall be an optimally tuned 6.7 litre vented enclosure of birch plywood construction. The enclosure shall be fitted 4 x M6 bracket inserts for landscape or portrait mounting, and 2 x M6 mounting points for yoke bracket inserts. The enclosure shall not exceed the following dimensions: 333 x 180 x 200 mm or 13.1 x 7.1 x 7.9" (H x W x D). The loudspeaker shall be the Tannoy VX 5.2.

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