



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 12HP builds on the foundation of the highly successful V12 HP, justly renowned worldwide for its exceptional performance and versatility. Now incorporating significant upgrades, the successor VX 12HP offers a compact yet punchy and sonically vibrant solution for medium-scale live reinforcement as well as for demanding BGM systems in – for example – fashion retail outlets, bars, and small clubs. The VX 12HP has been sonically matched with the wider range of VXP Series models, this allows consistency in an installations where there is a mix of products utilised

The VX 12HP is built around a single 300 mm (12") PowerDual™ driver mounted within a compact, rugged birch plywood cabinet with aesthetically profiled edges and an airnet™-backed, powder-coated steel grille. The latest high power-handling version of Tannoy's exclusive point source, constant directivity PowerDual technology ensures high power output with high sensitivity and exceptional efficiency. More than 60 years of research into point source driver technology allows this unique configuration to deliver exceptionally smooth beam-width characteristics resulting in an even coverage pattern at all frequencies aiding predictable system design. For even higher power output, an internal connector switching arrangement on the input panel bypasses the internal passive crossover to allow bi-amplified operation in conjunction with an external active crossover. Symmetrical dispersion characteristics enhance speaker placement flexibility, allowing vertical or horizontal mounting of single or multi-cabinet arrays without any compromise in sound quality.

Audio connection is via barrier strip or NL 4MP speakON located on the flush-mounted termination panel. An extensive range of high performance steel mounting hardware, custom designed for VX 12HP, includes a yoke bracket for wall and ceiling location, eyebolt location points, and a VTH top-hat for pole-mounting. 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 12HP 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

- 305mm (12") Dual Concentric PowerDual full-range drive
- Well defined 75 degree dispersion for optimum coverage and forward gain
- Peak output (passive full range mode) 129 dB SPL @ 1 m, recommended amp power 700 W @ 8 ohms
- Versatile mounting via optional custom designed hardware
- Integrip™ handles ergonomically integrated on top and bottom of cabinet
- Pole-mountable for optimum portability
- 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
- Medium scale PA.
- Bars and nightclubs
- Portable and installed corporate AV
- Theme parks and leisure venues
- Gymnasiums and small/medium sports arenas
- Cinemas

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TECHNICAL SPECIFICATIONS

System	VX 12HP		
Frequency Response (-3 dB) ⁽¹⁾	80 Hz - 25 kHz		
Frequency Range (-10 dB) ⁽¹⁾	60 Hz - 30 kHz		
System Sensitivity (1 W @ 1m) ⁽²⁾			
Passive - Full Range	97 dB (1 W = 2.83 V for 8 ohms)		
Biamp (LF)	98 dB		
Biamp (HF)	106 dB		
Dispersion (-6 dB)	75 degrees conical		
Driver Complement	1 x 305 mm (12") PowerDual		
Crossover	Passive 1 kHz		
<small>Product can be reconfigured for bi-amped operation. Bi-amp system parameters in user manual</small>			
Directivity Factor (Q)	10.1 (averaged 1 kHz to 10 kHz)		
Directivity Index (DI)	10 dB (averaged 1 kHz to 10 kHz)		
Rated Maximum SPL ⁽²⁾			
Passive - Full Range	123 dB (average) 129 dB (peak)		
Biamp (LF)	124 dB (average) 130 dB (peak)		
Biamp (HF)	125 dB (average) 131 dB (peak)		
Power Handling	Average	Programme	Peak
Passive - Full Range	350 W	700 W	1400 W
Biamp (LF)	350 W	700 W	1400 W
Biamp (HF)	80 W	160 W	320 W
Recommended Amplifier Power			
Passive - Full Range	700 W @ 8 ohms		
Biamp (LF)	700 W @ 8 ohms		
Biamp (HF)	160 W @ 8 ohms		
Nominal Impedance			
Passive - Full Range	8 ohms		
Biamp (LF)	8 ohms		
Biamp (HF)	8 ohms		
Distortion			
10% Full Power (16.7 V)	2nd Harmonic	3rd Harmonic	
250 Hz	0.239%	0.67%	
1 kHz	1.58%	3.54%	
10 kHz	5.2%	0.19%	
1% Full Power (5.29 V)	2nd Harmonic	3rd Harmonic	
250 Hz	0.11%	0.581%	
1 kHz	0.79%	2.53%	
10 kHz	1.94%	0.161%	

Construction

Enclosure	36.4 litre, 15 mm (enclosure) and 18 mm (front) 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	2 x speakON NL 4MP and Barrier strip
Fittings	8 x M10 Flying inserts (portrait or landscape mounting), 8 x M10 yoke bracket inserts, 2 x Integrip carrying handles, Blanking plate for optional VTH pole mount, Fixings compatible with Powerdrive™ style brackets, 4 x M6 inserts
Dimensions (HxWxD)	486 x 370 x 360 mm (19.1 x 14.6 x 14.1")
Net weight	21.5 kg (47.4 lbs)
Shipped weight	23.5 kg (51.8 lbs)
Packed quantity	1

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.

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.

Ordering Information

PART NUMBER	MODEL NAME	COLOUR	PACKED QUANTITY
8001 6360	VX 12HP	BLACK	1
8001 6361	VX 12HP	WHITE	1

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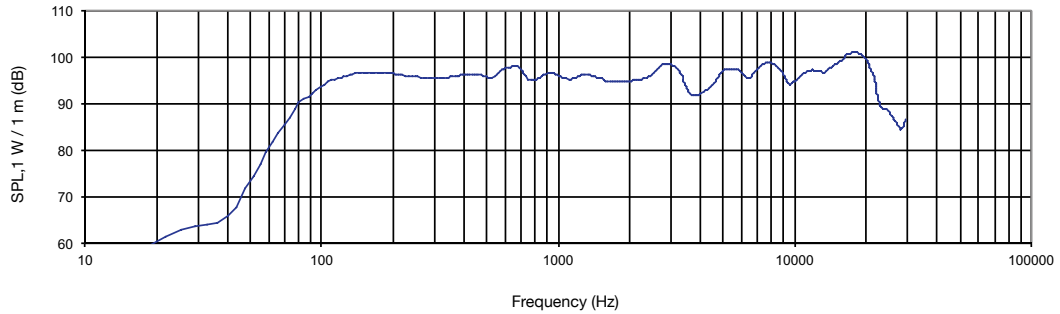
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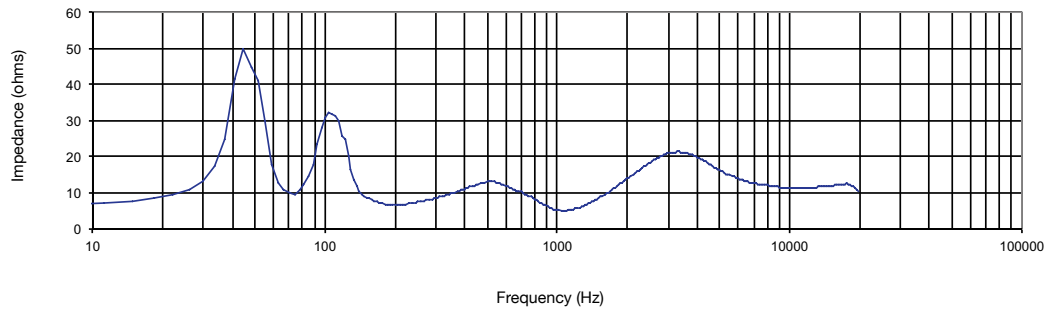
PERFORMANCE MEASUREMENTS

1 m on-axis Frequency Response



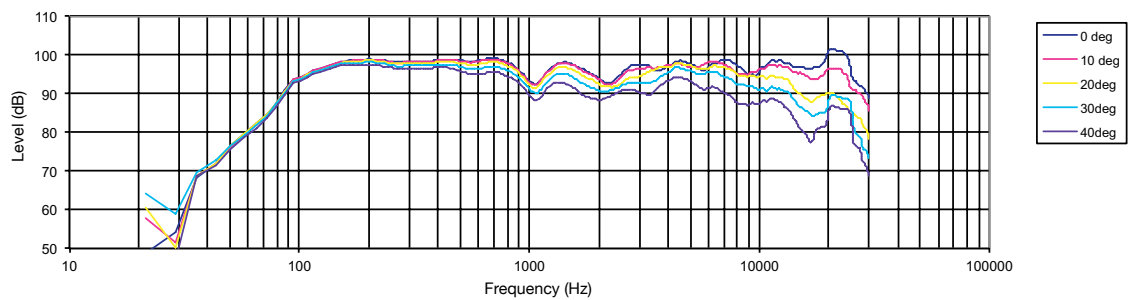
ANECHOIC FREQUENCY RESPONSE

Impedance vs frequency



IMPEDANCE

Off-axis Frequency Response



OFF-AXIS RESPONSE

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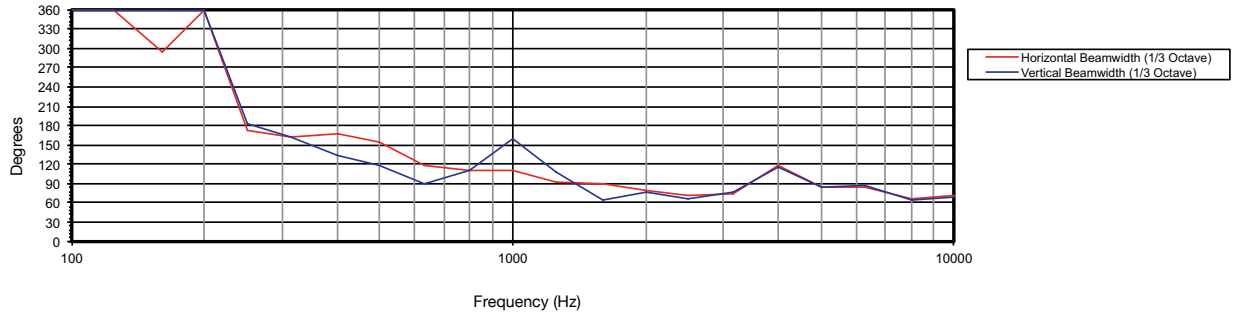
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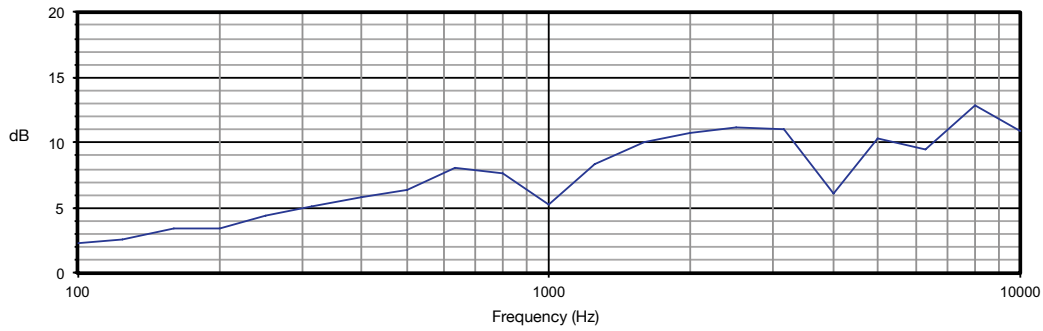
PERFORMANCE MEASUREMENTS

Beamwidth vs Frequency



BEAMWIDTH

DI vs Frequency



DIRECTIVITY INDEX (DI)

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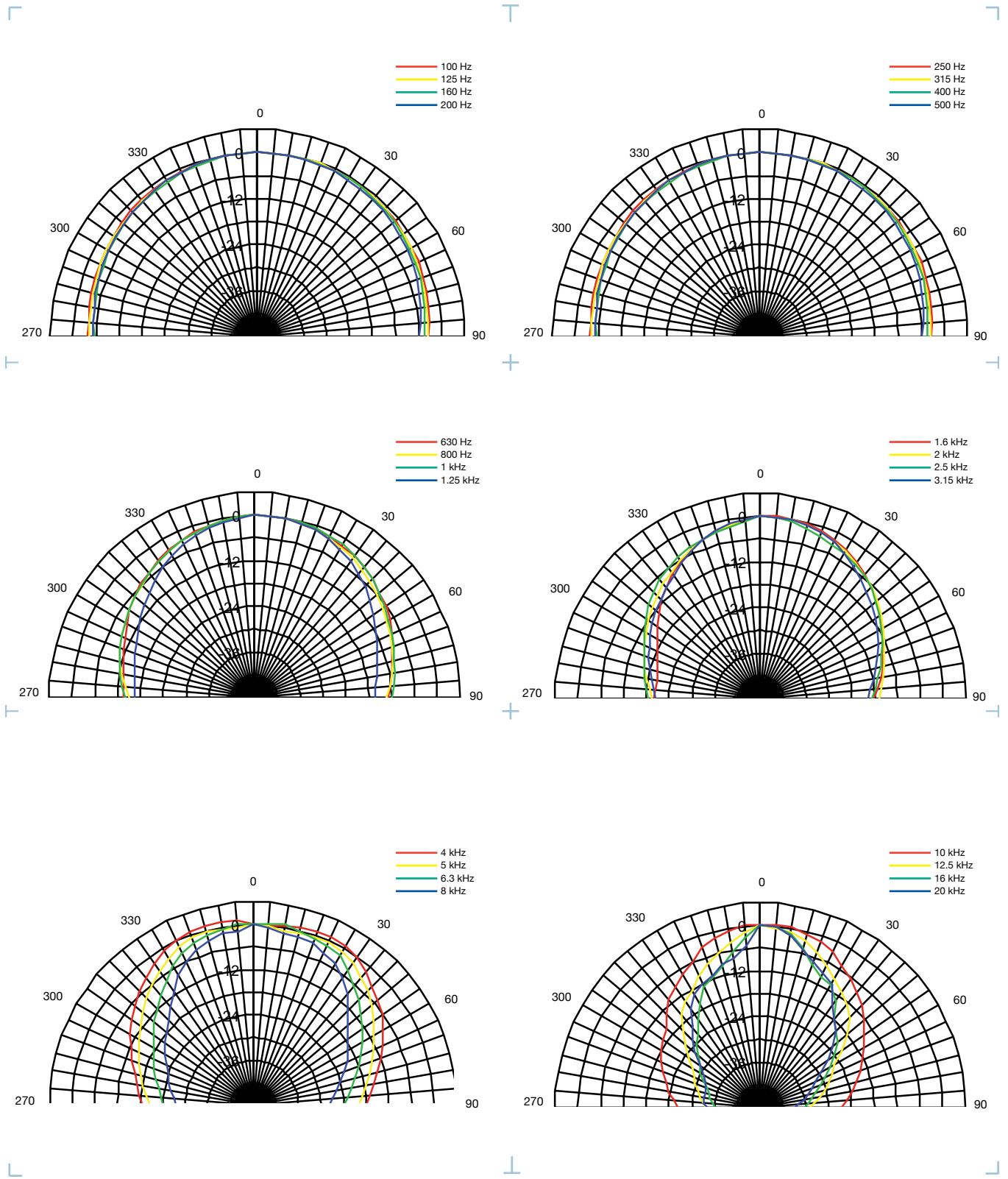
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PERFORMANCE MEASUREMENTS POLAR PLOTS (1/3 OCTAVE)



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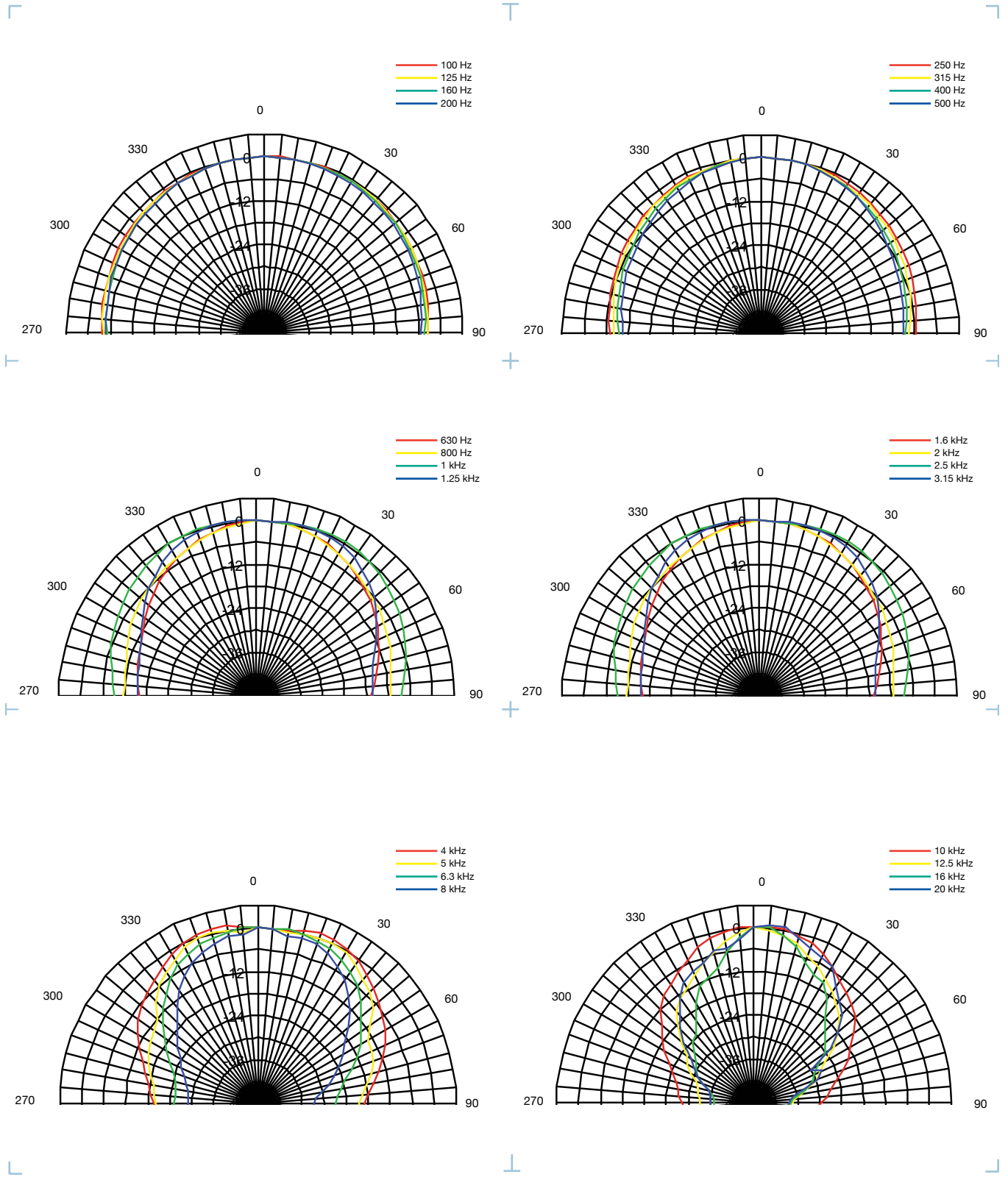
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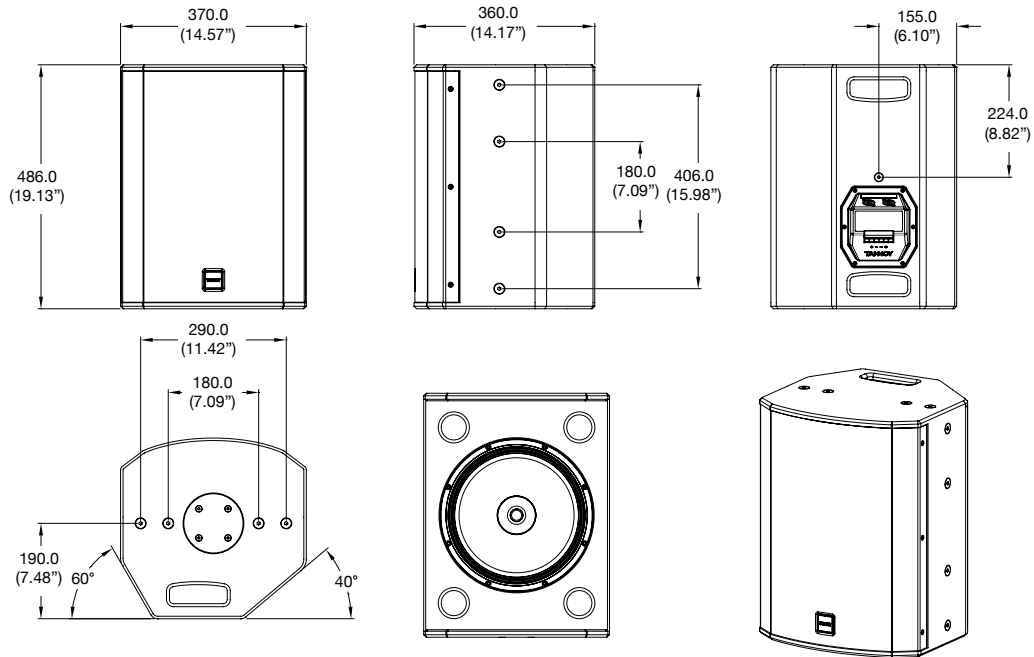
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DIMENSIONAL SKETCHES



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Architectural specifications

The loudspeaker shall consist of a 305 mm (12") full range, single point source PowerDual transducer. The low and the high frequency elements shall be combined by an internal passive crossover network operating at 1 kHz. A user configurable internal switching arrangement on the input panel shall allow selection of full range passive or bi-amped two-way powering modes.

Performance of the loudspeaker, without any external electronic control, shall meet or exceed the following criteria: Frequency response in full range mode measured at 1 metre on axis with swept sine wave shall be 80 Hz – 25 kHz (-3 dB). In passive full range mode sensitivity mode shall be at least 97 dB (anechoic) 1 watt @ 1 metre and the loudspeaker shall be capable of producing a peak output level of 129 dB (anechoic) on axis at 1 metre. Dispersion shall be 75 degrees conical (-6 dB). The system shall have a nominal impedance of 8 ohms. Long-term power handling (EIA-426B) in passive full range mode shall be 350 watts and recommended amplifier power shall be 700 watts.

The enclosure shall be an optimally tuned 36.4 litre vented enclosure of birch plywood construction. The enclosure shall be fitted with dual integral carrying handles, blanked off recess for optional pole-mount socket installation, 8 x M10 bracket inserts for landscape or portrait mounting, and 8 x M10 mounting points for yoke bracket inserts. The enclosure shall not exceed the following dimensions: 486 x 370 x 360 mm or 19.1 x 14.6 x 14.1" (H x W x D). The loudspeaker shall be the Tannoy VX 12HP.