



V300

TANNOY®



Product Description

The V300 is an exceptional, audiophile quality installation cabinet built around a 300mm (12.00") point source, constant directivity SuperDual™ drive unit. This loudspeaker delivers the ultimate in sound reproduction into high end performance applications where extended frequency response, extremely low distortion, outstanding clarity, crystal clear intelligibility, definition and detail are critical.

The 300mm (12.00") point source, constant directivity SuperDual™ has a cast chassis frame manufactured from aluminium alloy LM24M, which includes both silicon and copper, to ensure maximum rigidity and to eliminate resonance, even at extreme power output levels. The reinforced paper mid bass cone is terminated with a double rolled cambric surround. The huge magnet assemblies on both the low and high frequency sections of the driver provide increased efficiency, a high sensitivity of 98dB (1W = 2.83V for 8 Ohms), with enhanced dynamic range, while the copper clad edge-wound voice coils optimise the speed of response to musical transients. A Tulip WaveGuide™ on drive unit optimises high frequency dispersion and provides pinpoint imaging accuracy.

Being coincidentally aligned to a point source ensures the high frequency and mid bass sections deliver a smooth, uniform frequency response of 56Hz - 28kHz (-10dB) over a wide coverage area; unachievable with discrete two-way designs in the vertical plane, as massive cancellations appear off axis at the crossover frequency. The 90° conical dispersion of the SuperDual™ allows either vertical or horizontal mounting without compromising the audiophile sound quality, making the V300 is the perfect choice where absolute accuracy is required in applications as diverse as theme pubs and nightclubs, theatre front of house and effects and side fill in movie theatres and cinemas, right through to class leading audio reproduction in houses of worship, theme parks, leisure venues, audio visual installs and multi-use sports stadiums.

Although designed to perform without any external controller, the addition of one of the Tannoy digital system controllers to the V300 will further enhance performance by equalising the system to improve bass performance; this as well as providing a 2-way crossover function to facilitate use with a separate subwoofer system. The V300 can also be bi-amped for increased system flexibility.

Available in black or white, the rugged multi-ply birch cabinet has an asymmetric profile; a convenient aspect ratio that allows installation in a variety of configurations.

The V300 comes complete with a carrying handle and 8 x M10 bracket inserts for landscape or portrait mounting and 8 x M10 flying inserts. Tannoy's proprietary Secure-ET™ modular mounting hardware provides the V Series with multiple hanging options - wall mount, yoke, ceiling saddle, pole clamp, pole mount and eyebolts.

Features

- 300mm (12.00") point source Super Dual™ driver
- 90 degree controlled conical dispersion for optimum coverage and forward gain
- Compact, versatile enclosure
- High power handling
- High efficiency and low distortion
- Rugged birch plywood construction
- Convenient aspect ratio
- Integral carrying handle
- Integral flying points
- Secure-ET™ mounting options
- Full range passive or bi-amped powering modes
- Five year loudspeaker warranty

Applications

- Critical performance and accuracy required
- High quality public address
- Live sound reinforcement
- Theme pubs and nightclubs
- Theatre front of house and effects
- Movie theatres and cinemas
- Side fill in large - scale music reinforcement
- Theme parks and leisure venues
- Sports and multi-use stadiums
- Audio visual
- Religious facilities

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TECHNICAL SPECIFICATIONS

System	V300		
System Type	Full Range - Vented		
Frequency Response (-3dB) ⁽¹⁾	70Hz - 22kHz		
Frequency Range (-10dB) ⁽¹⁾	56Hz - 28kHz		
System Sensitivity (1W @1m) ⁽²⁾	98dB (1W = 2.83V for 8 Ohms)		
Dispersion (-6dB)	90 degrees conical		
Driver Complement	1 x 300mm (12.00") constant directivity Super Dual™		
Crossover	Passive 1.8kHz Product can be reconfigured for bi-amped operation. Bi-amp system parameters in user manual		
Directivity Factor (Q)	7.4 averaged 1kHz to 10kHz		
Directivity Index (DI)	8.4 averaged 1kHz to 10kHz		
Rated Maximum SPL ⁽²⁾	Average	Peak	
Passive - Full Range	122dB	128dB	
Biamp (LF)	122dB	128dB	
Biamp (HF)	122.5dB	128.5dB	
Power Handling	Average	Programme	Peak
Passive - Full Range	250W	500W	1000W
Biamp (LF)	250W	500W	1000W
Biamp (HF)	70W	140W	280W
Recommended Amplifier Power			
Passive - Full Range	500W @ 8 Ohms		
Biamp (LF)	500W @ 8 Ohms		
Biamp (HF)	140W @ 8 Ohms		
Nominal Impedance			
Passive - Full Range	8 Ohms		
Biamp (LF)	8 Ohms		
Biamp (HF)	8 Ohms		

System	V300	
10% Full Power (14.14V)	2nd Harmonic	3rd Harmonic
250Hz	0.63%	0.08%
1kHz	0.92%	0.20%
10kHz	1.45%	0.17%
1% Full Power (4.47V)	2nd Harmonic	3rd Harmonic
250Hz	0.32%	0.02%
1kHz	0.28%	0.02%
10kHz	0.41%	0.08%
Construction		
Enclosure	44.5 litre vented and internally braced 15mm (0.62") birch plywood cabinet with 15mm (0.62") MDF front baffle.	
Finish	Textured black or white paint, with custom colours on request. Foam covered, powder coated perforated steelgrille	
Connectors	2 x Speakon NL4MP in/out	
Optional Accessories	Black or white power coated perforated steel grille	
Fittings	Recessed rear mounted carry handle Blanking plate allows installation of a 35mm pole-mounting socket 8 x M10 bracket inserts allowing for landscape or portrait mounting 8 x M10 flying inserts	
Dimensions	590mm x 370mm x 375mm (H x W x D) 23.23 x 14.57 x 14.76" (H x W x D)	
Weight	34 Kg (74.8 lbs)	

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 NWAA Labs, 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 2640	V300	Black	1
8001 2680	V300	White	1

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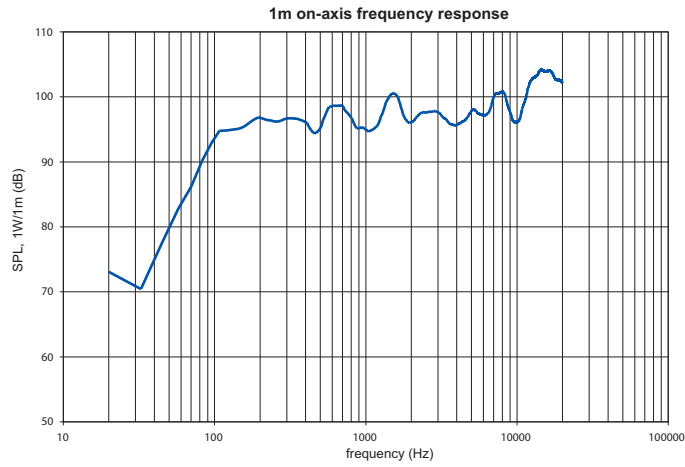


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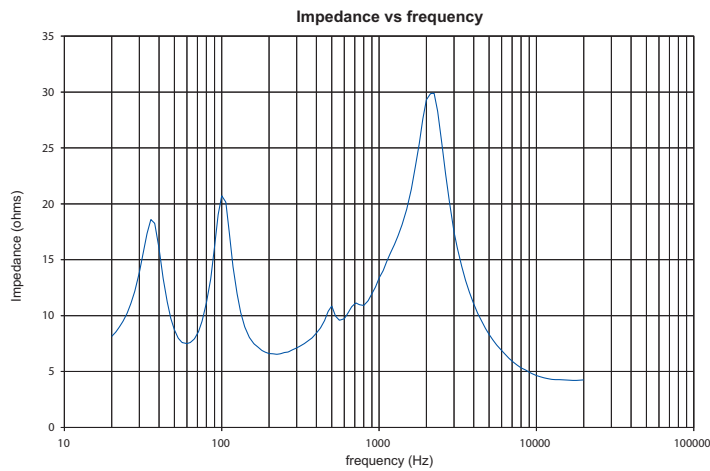
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PERFORMANCE MEASUREMENTS

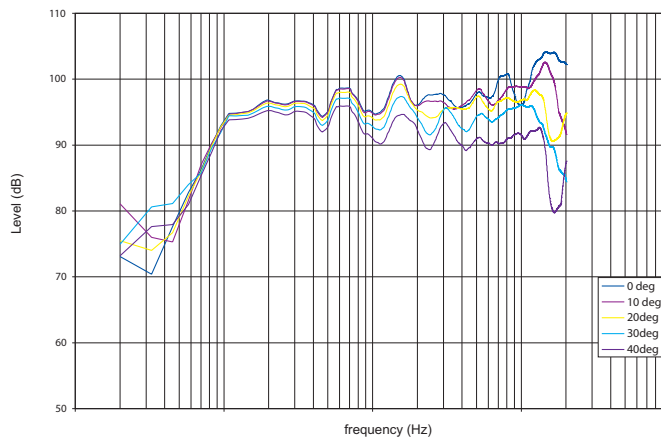
ANECHOIC FREQUENCY RESPONSE



IMPEDANCE



OFF AXIS RESPONSE



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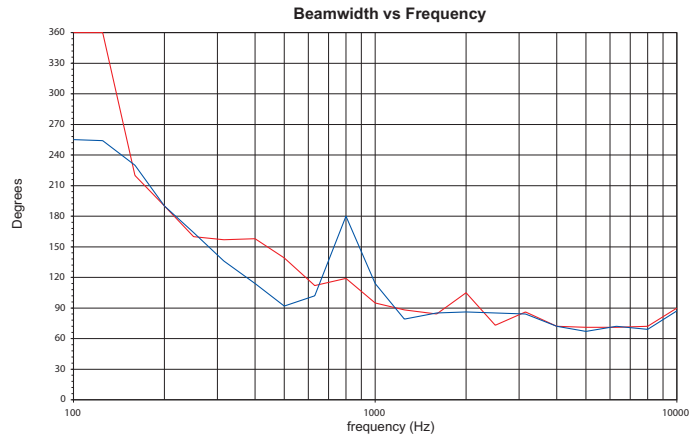
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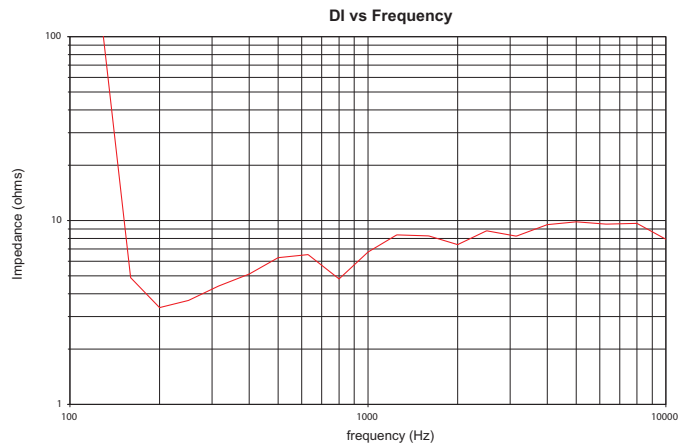
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PERFORMANCE MEASUREMENTS



BEAMWIDTH



DIRECTIVITY INDEX

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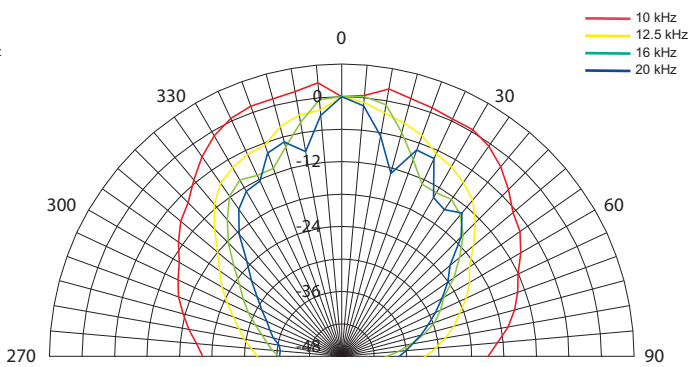
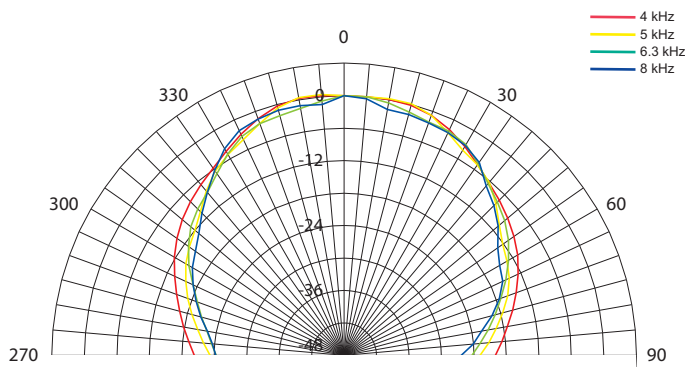
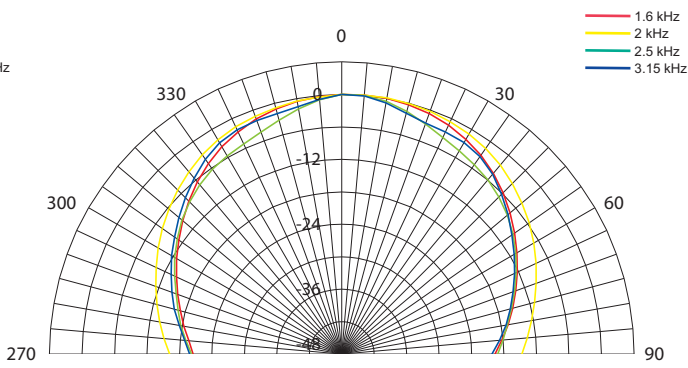
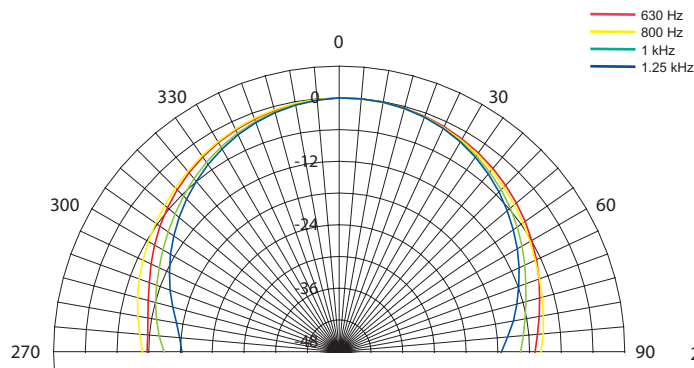
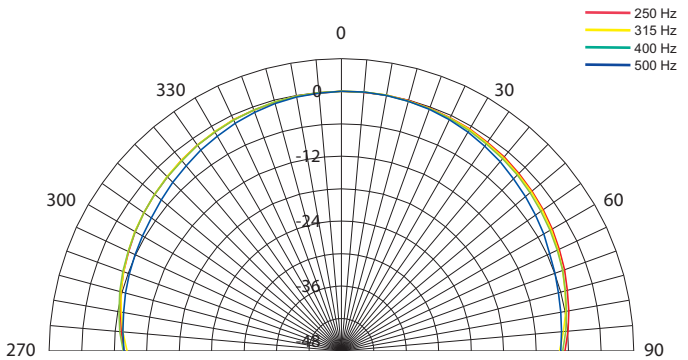
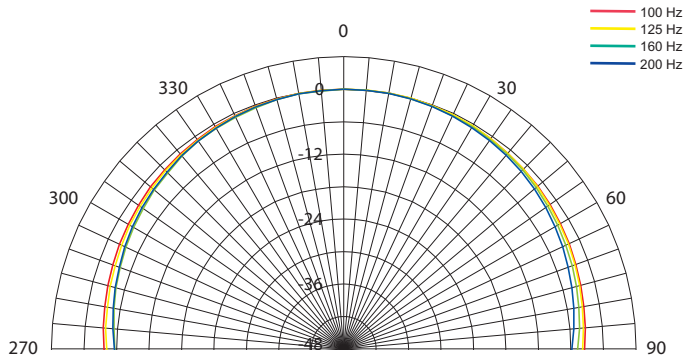
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PERFORMANCE MEASUREMENTS POLAR PLOTS (1/2 OCTAVE)



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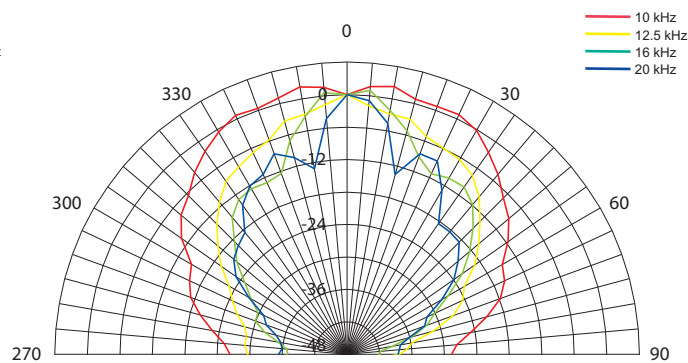
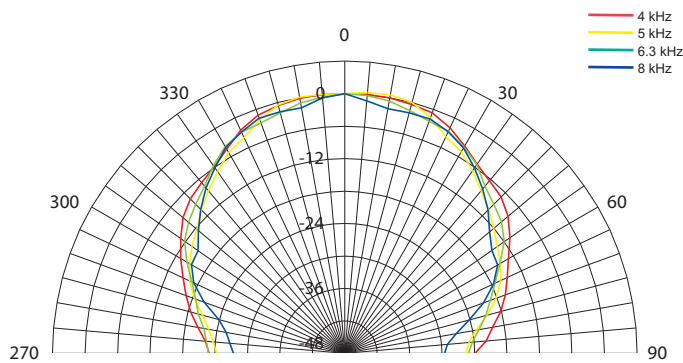
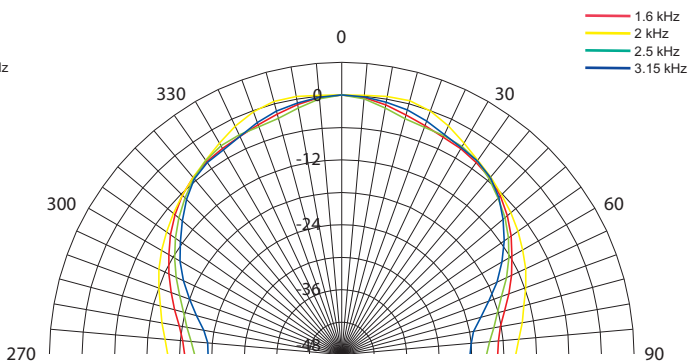
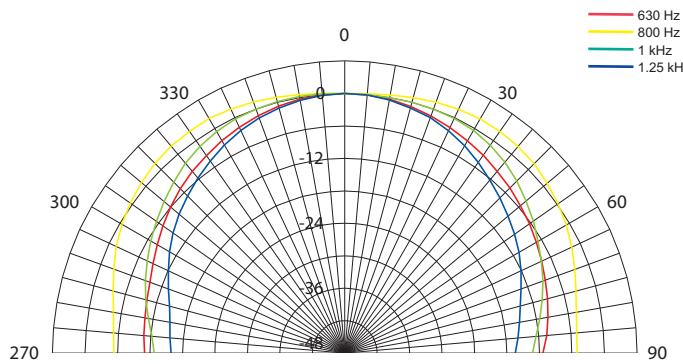
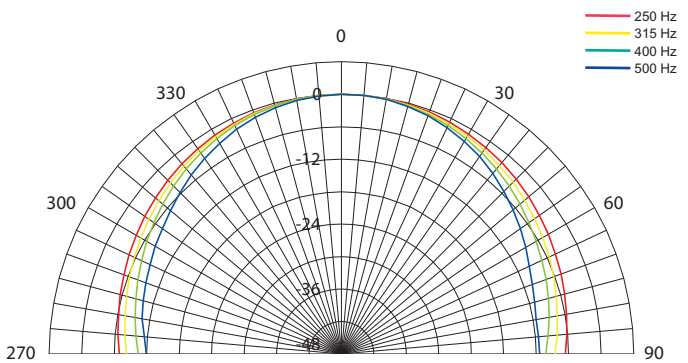
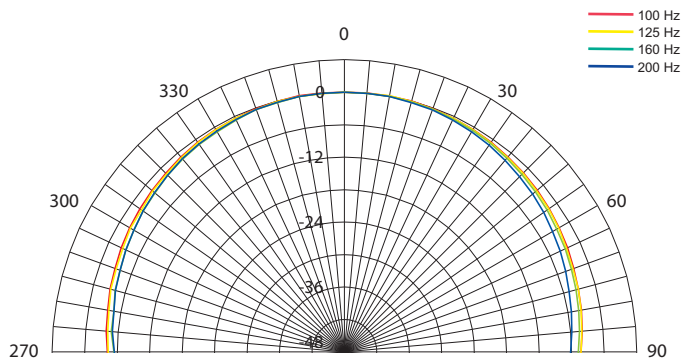
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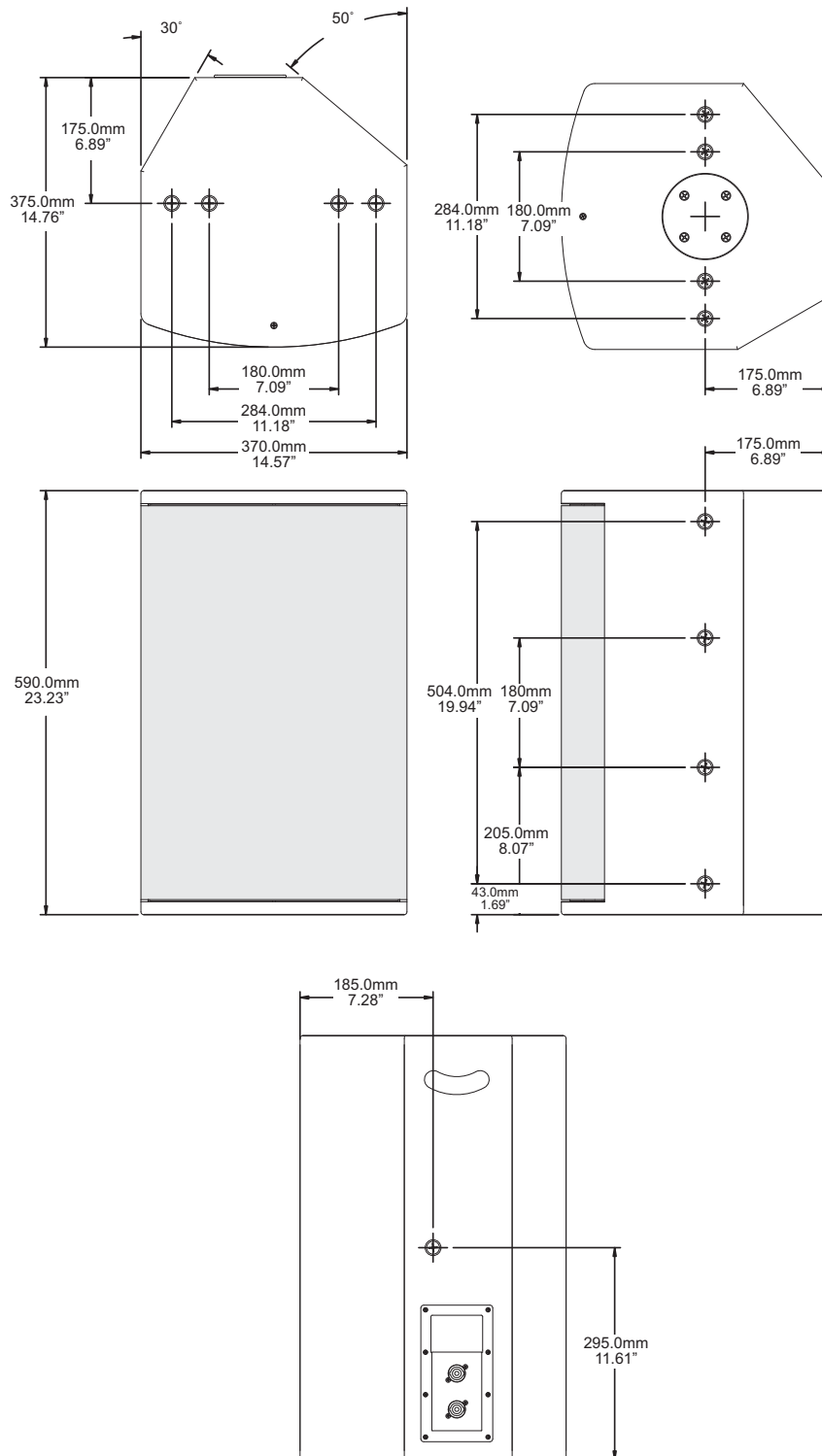
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DIMENSIONAL SKETCHES



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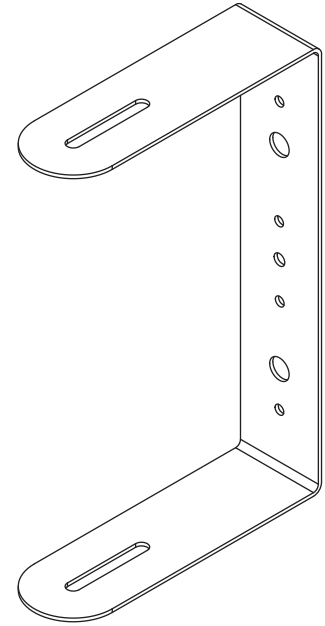
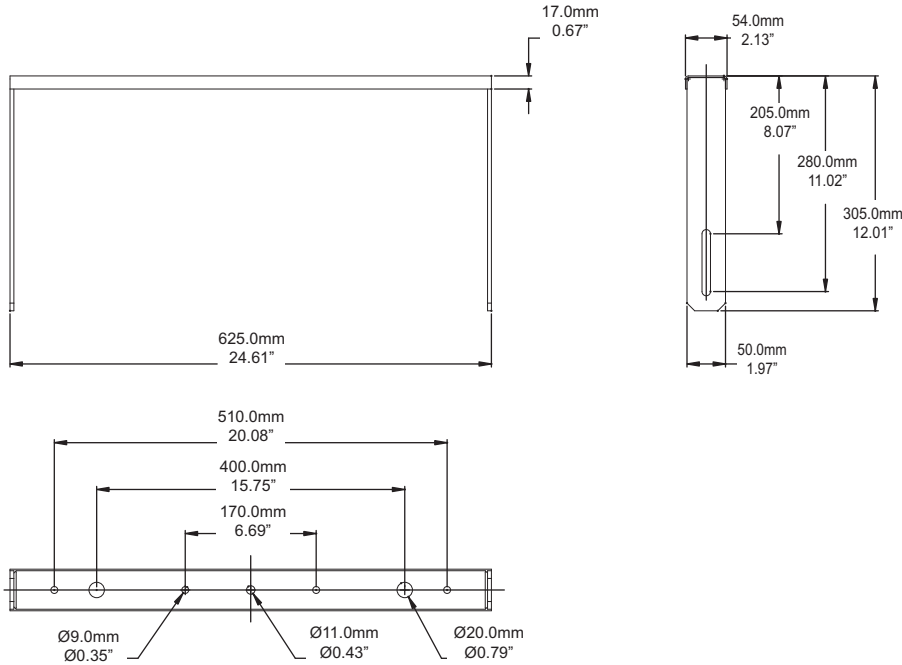


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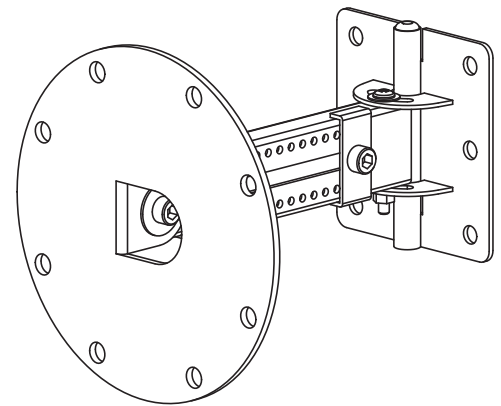
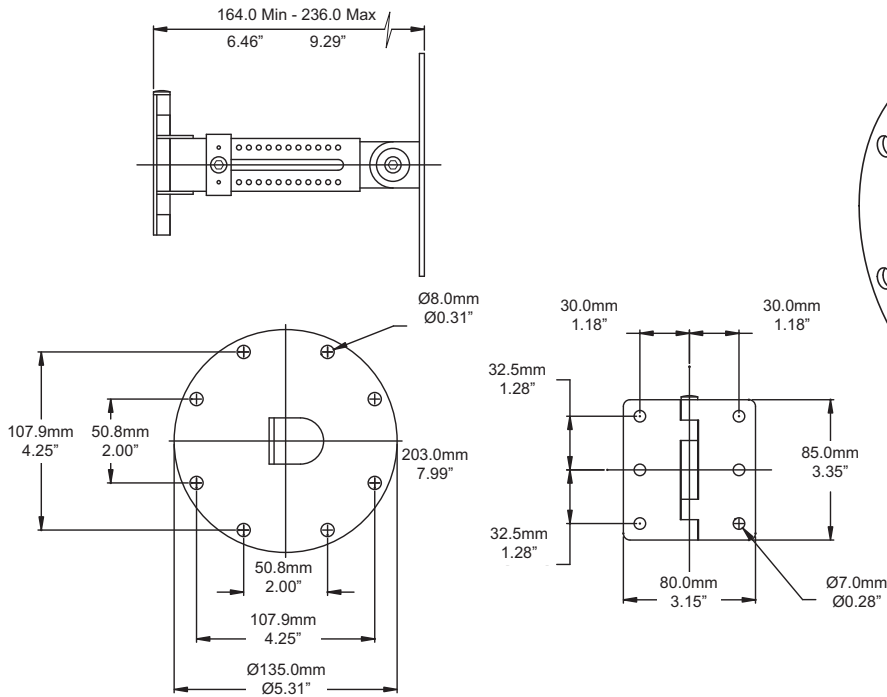
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MOUNTING OPTIONS & HARDWARE

V15Y Yoke



V8B Bracket



SPEAKER END OF MOUNTING BRACKET

WALL END OF MOUNTING BRACKET

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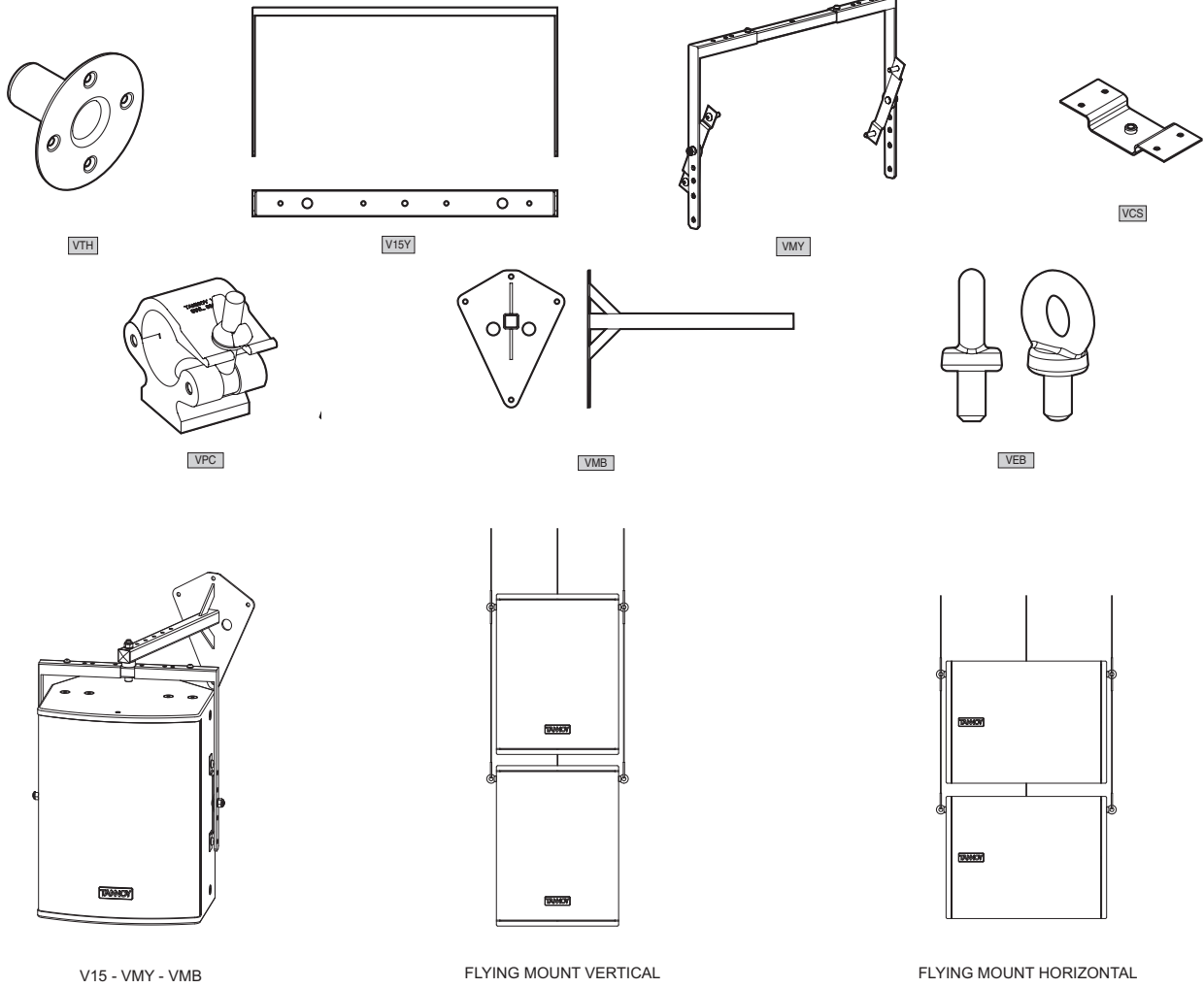
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MOUNTING OPTIONS & HARDWARE



Ordering Information

PART NUMBER	MODEL NAME	COLOUR	PACKED QUANTITY
8001 3190	V15Y	Black	1
8001 3191	V15Y	White	1
8001 2780	VMY	Black	1
8001 2790	VMY	White	1
8001 2800	VMB	Black	1
8001 2810	VMB	White	1
8001 2820	VEB	-	1
8001 2830	VCS	Black	1
8001 2840	VCS	White	1
8001 2860	VTH	Black	1
8001 2870	VTH	White	1
8001 2850	VPC	-	1
8001 3300	Grille V300	Black	1
8001 3301	Grille V300	White	1

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Architectural specifications

The loudspeaker shall consist of a 300mm (12.00") full range, single point source SuperDual™ transducer. The low and the high frequency elements shall be combined by an internal passive crossover network operating at 1.8kHz, with 2nd order high pass, 2nd order low pass. A configurable switching arrangement on the input panel allows the user to select between full range passive or Bi-amped two way powering modes.

Performance of the loudspeaker, without any electronic control shall meet or exceed the following criteria: Frequency response measured at 1 metre on axis with swept sine wave shall be 56Hz - 28kHz (-3dB). Sensitivity shall be at least 98dB (anechoic) for 2.83 Volts @ 1 metre and shall be capable of producing a peak output level of 128dB (anechoic) on axis at 1 metre.

The dispersion of the loudspeaker shall be 90 degrees conical (-6dB). The system shall have a nominal impedance of 8 Ohms, maximum power handling shall be 500 Watts (programme). The enclosure shall be an optimally tuned (44.5 litre), vented and internally braced enclosure of birch plywood construction. The enclosure shall be fitted with a recessed rear mounted carrying handle, 8 x M10 bracket inserts and 8 x M10 integral mounting points for flying hardware.

The enclosure shall not exceed the following dimensions: 590 x 370 x 375mm (H x W x D) 23.23 x 14.57 x 14.76" (H x W x D)

The loudspeaker shall be the Tannoy...V300.

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