



# DVS 4 / DVS 4t

TANNOY®



**LISTED**  
UL-1480,  
UL-2043



## Product Description

Designed for a wide variety of discrete small scale sound reinforcement applications, the Tannoy DVS 4 is an ultra compact surface mount loudspeaker of exceptional value and acoustic performance. A full bandwidth loudspeaker designed for commercial, professional and residential applications where environmental durability and high quality sound reproduction are required. For both indoor and limited outdoor use, these speakers are ideally suited to stereo or monaural background or foreground music systems in such applications as diverse as theme park attractions, retail premises, restaurants and cafes, hotel lobbies and bars, corporate audio visual, residential developments and houses of worship.

The point-source design comprises a 100mm (4.00") mid bass driver with a coaxially mounted 19mm (0.75") high frequency section mounted in a stylish injection moulded surface-mount enclosure manufactured from ABS material. The new device is certified for water and dust ingress protection to IP64 standard and is currently pending UL Listed status (UL-1480) making it a perfectly capable performer in challenging interior areas such as swimming pools, saunas or work areas where unusually high levels of dust or moisture may be present, as well as most outdoor applications where extreme environmental or harsh weather conditions are not a typical concern.

The highly durable and scuff resistant, high impact ABS enclosure is available in black or white painted finish and comes with an integral mild steel grille (aluminium available as option) designed with optimum aesthetic sensitivity in mind. A steel mounting bracket is included, which fits easily to the device via finger-tightened plastic screw-nut on the top and bottom of the enclosure, making installation quick and hassle-free. Thanks to the point-source driver design, the DVS 4 can be mounted vertically or horizontally without compromising the dispersion and coverage control.

Transformer version – the DVS 4t

The DVS 4t model option is equipped with an internally mounted low insertion loss line transformer for 70V or 100V distributed sound applications. Wattage taps are configurable to the following settings via a rotary tapping switch, which is located on the back panel.

70V: 30W / 15W / 7.5W / 3.75W  
100V: 30W / 15W / 7.5W

## Features

- 100mm (4") coaxial transducer for high performance and durability
- 110 degree controlled conical dispersion for optimum coverage
- Exceptional performance to value ratio
- Weather resistant rated IP64 to EN60529 (IEC529)
- Stylish, durable ABS enclosure available in black or white
- Phase coherent design for superior vocal articulation and music reproduction
- No crossover required, ensuring better phase, impedance and sensitivity response and increased durability
- Painted steel yoke bracket supplied.
- Five year loudspeaker warranty
- Low insertion loss 30W transformer for use in distributed audio installations (DVS 4t only)

## Applications

- Indoor and outdoor commercial, professional and residential installations
- High level stereo or monaural background or foreground music and speech paging systems
- Theme parks
- Theme bars
- Reception / waiting rooms
- Airports, convention centres and hotels
- Business music systems
- Boardrooms and offices
- Retail outlets and shopping malls
- Restaurants and cafes
- Corporate audio visual
- Residential developments

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## TECHNICAL SPECIFICATIONS

System			DVS 4		
Frequency Response (-3dB) <sup>(1)</sup>			75Hz - 20kHz		
Frequency Range (-10dB) <sup>(1)</sup>			60Hz - 30kHz		
System Sensitivity (1W @1m) <sup>(2)</sup>			84dB		
Dispersion (-6dB)			110 degrees conical		
Transducers			Coaxial		
Low Frequency			100mm (4.00") mineral loaded cone material		
High Frequency			19mm (0.75")		
Crossover			3.9kHz - 2nd order LF, 2nd order HF		
Directivity Factor (Q)			6.5 averaged 1kHz to 10kHz		
Directivity Index (DI)			5.3 averaged 1kHz to 10kHz		
Rated Maximum SPL <sup>(2)</sup>			100dB (average) 106dB (peak)		
Power Handling			Average 40W		
Programme			80W		
Peak			160W		
Recommended Amplifier Power			80W @ 6 Ohms		
Nominal Impedance			6 Ohms		
Distortion					
10% Full Power (4.9V)			2nd Harmonic	3rd Harmonic	
250Hz			0.738%	0.772%	
1kHz			0.145%	0.234%	
10kHz			0.070%	0.070%	
1% Full Power (1.55V)			2nd Harmonic	3rd Harmonic	
250Hz			0.320%	0.311%	
1kHz			0.078%	0.174%	
10kHz			0.087%	0.087%	

### 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 from [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.

### Construction

Enclosure	ABS
Grille	Steel, plated and painted (aluminium option available)
Connectors	Euroblock type removable locking connector with screw terminals with "loop through" facility
Transformer setting	Rotary switch
Supplied Accessories	Yoke bracket
Dimensions (H x W x D)	277.0 x 170.4 x 165.6mm (10.91" x 6.71" x 6.52")
Net Weight	1.8kg (3.96lbs)
Shipped weight	5.4kg (11.9lbs)
Packed quantity	2

### Transformer Version

specifications as above except:

Transformer Taps (rear rotary switch)	
70V	30W / 15W / 7.5W / 3.75W / OFF & Low Impedance operation
100V	30W / 15W / 7.5W / OFF & Low Impedance operation
Maximum wire gauge for connector	2.5 mm <sup>2</sup> CSA (AWG12)
Safety Agency Ratings	UL-1480, UL-2043, CE
Net Weight	2.3kg (5.07lbs)
Shipped weight	6.2kg (13.66lbs)
Packed quantity	2

### Ordering Information

PART NUMBER	MODEL NAME	COLOUR	GRILLE	PACKED QUANTITY
8001 6230	DVS 4	Black	Mild steel	2
8001 6231	DVS 4	White	Mild steel	2
8001 6240	DVS 4t	Black	Mild steel	2
8001 6241	DVS 4t	White	Mild steel	2
8001 6710	DVS 4	Black	Aluminium	2
8001 6711	DVS 4	White	Aluminium	2
8001 6720	DVS 4t	Black	Aluminium	2
8001 6721	DVS 4t	White	Aluminium	2

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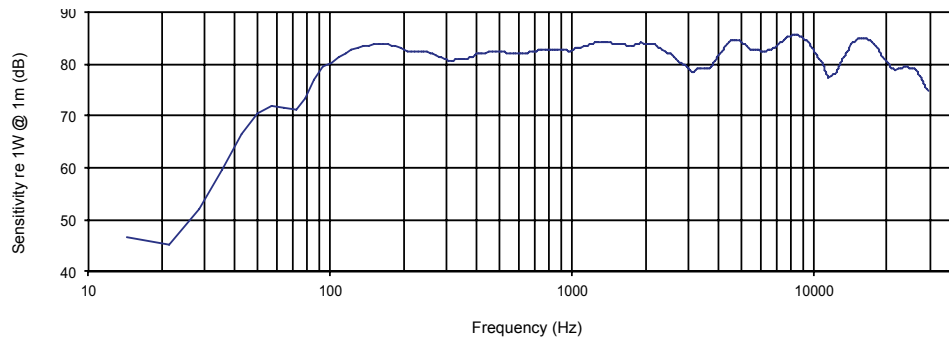


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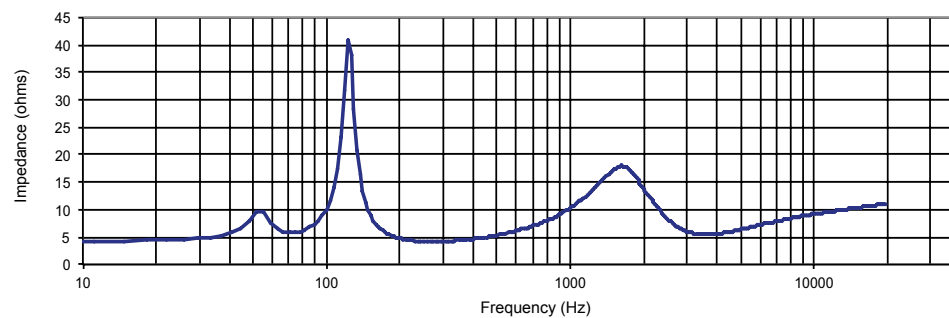
## PERFORMANCE MEASUREMENTS

1m on-axis Frequency Response



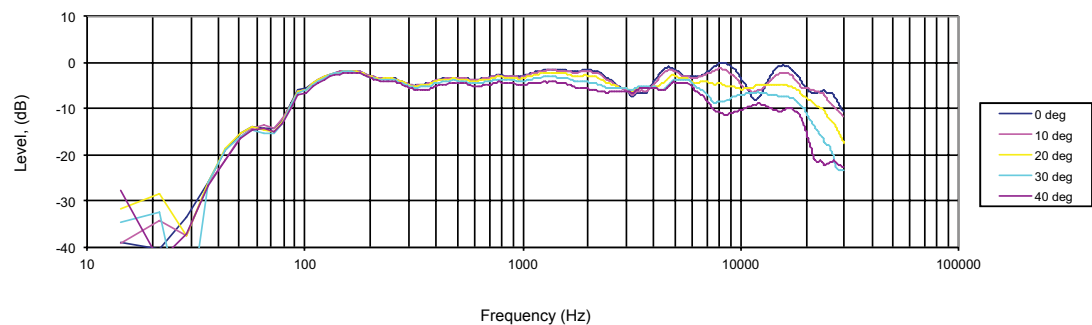
### ANECHOIC FREQUENCY RESPONSE

Impedance vs frequency



### IMPEDANCE

Horizontal Off-axis Frequency Response



### HORIZONTAL OFF-AXIS RESPONSE

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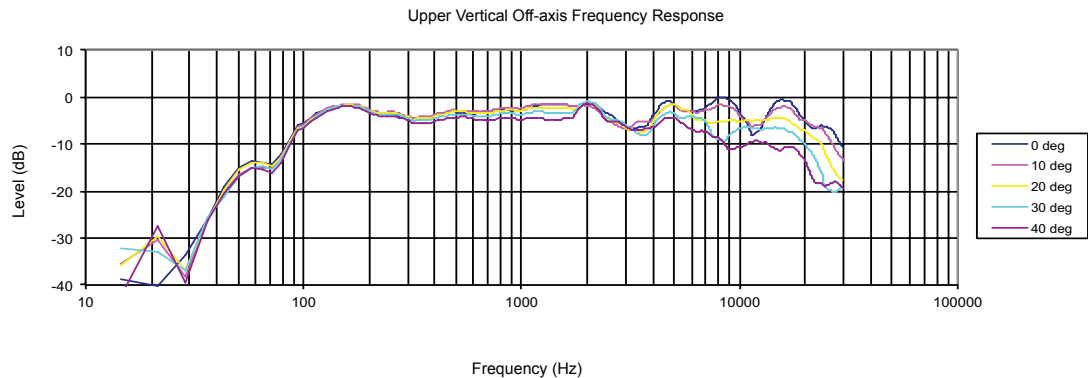
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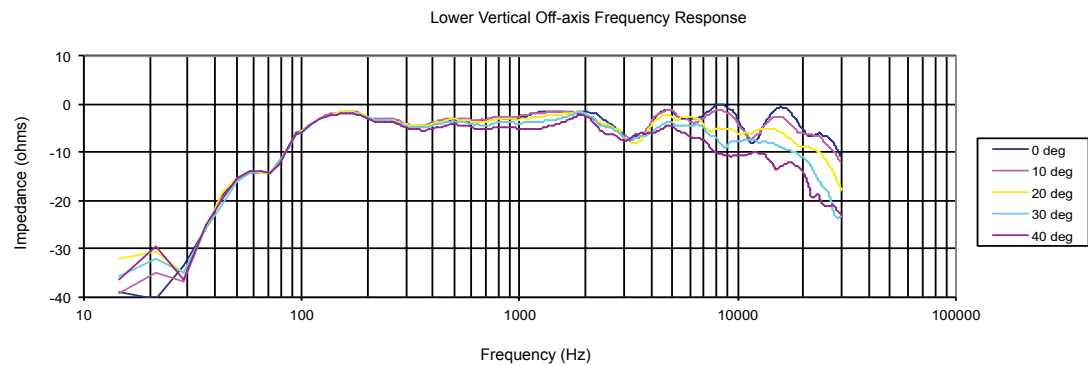
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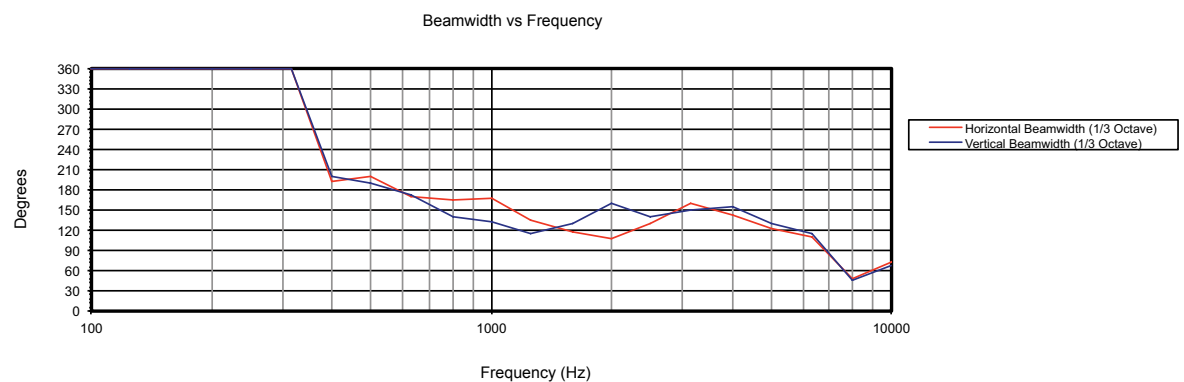
## PERFORMANCE MEASUREMENTS



UPPER VERTICAL  
OFF-AXIS  
RESPONSE



LOWER VERTICAL  
OFF-AXIS  
RESPONSE



BEAMWIDTH

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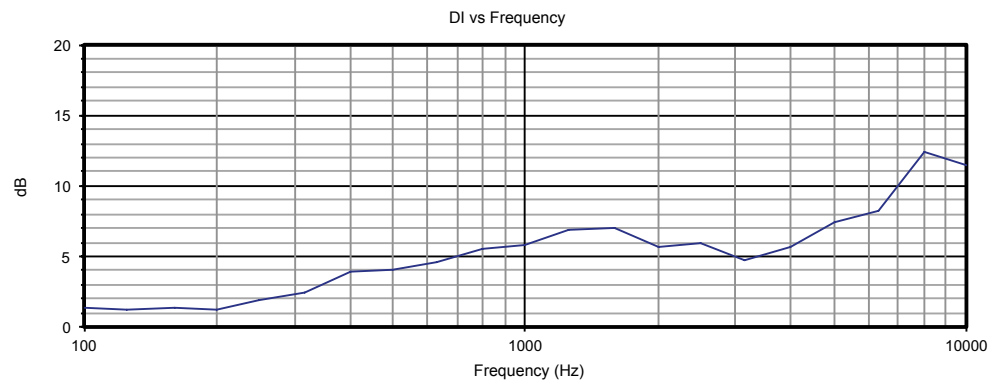
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## PERFORMANCE MEASUREMENTS



### DIRECTIVITY INDEX

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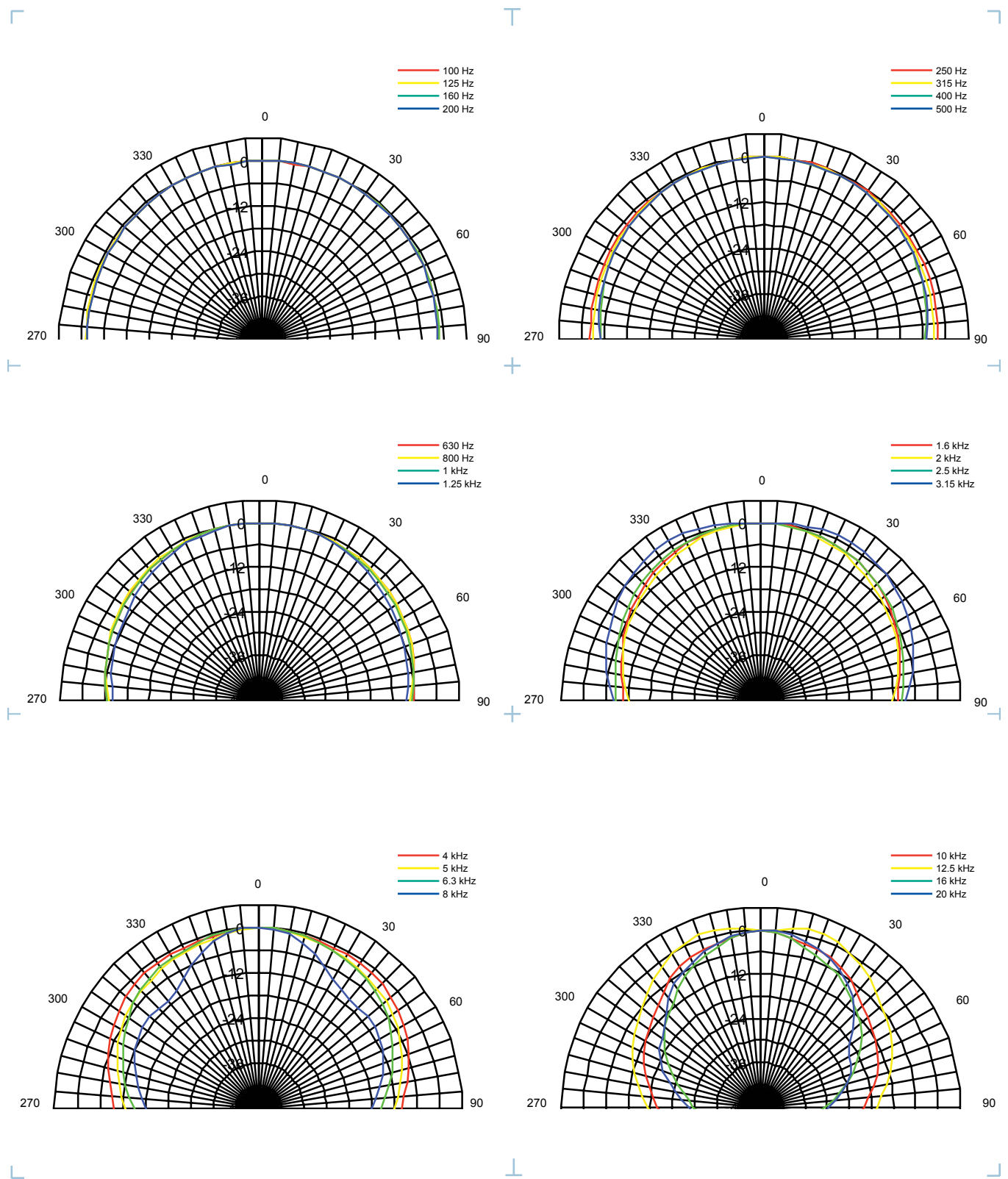
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## PERFORMANCE MEASUREMENTS POLAR PLOTS (1/3 OCTAVE) HORIZONTAL



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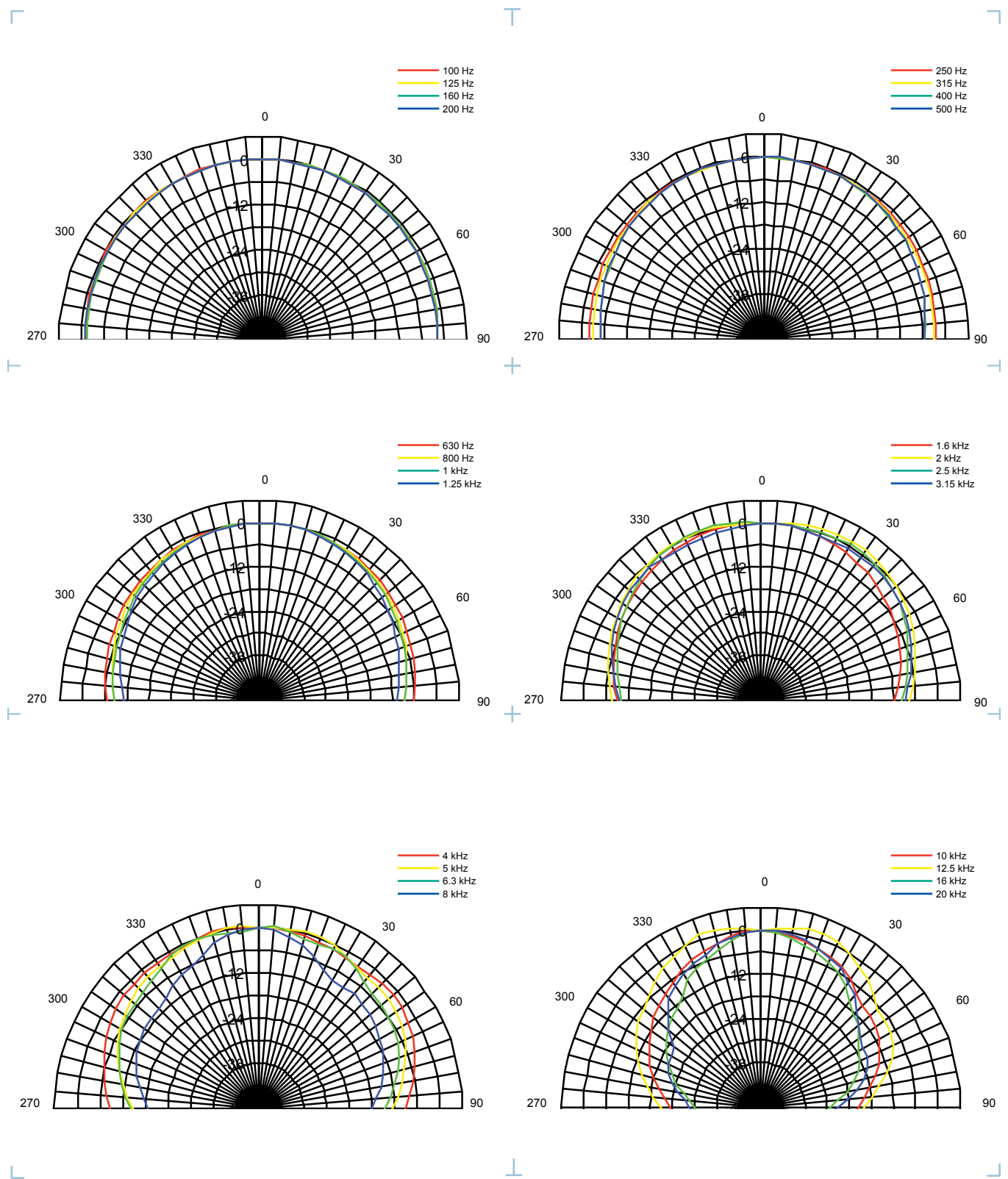
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## PERFORMANCE MEASUREMENTS POLAR PLOTS (1/3 OCTAVE) VERTICAL



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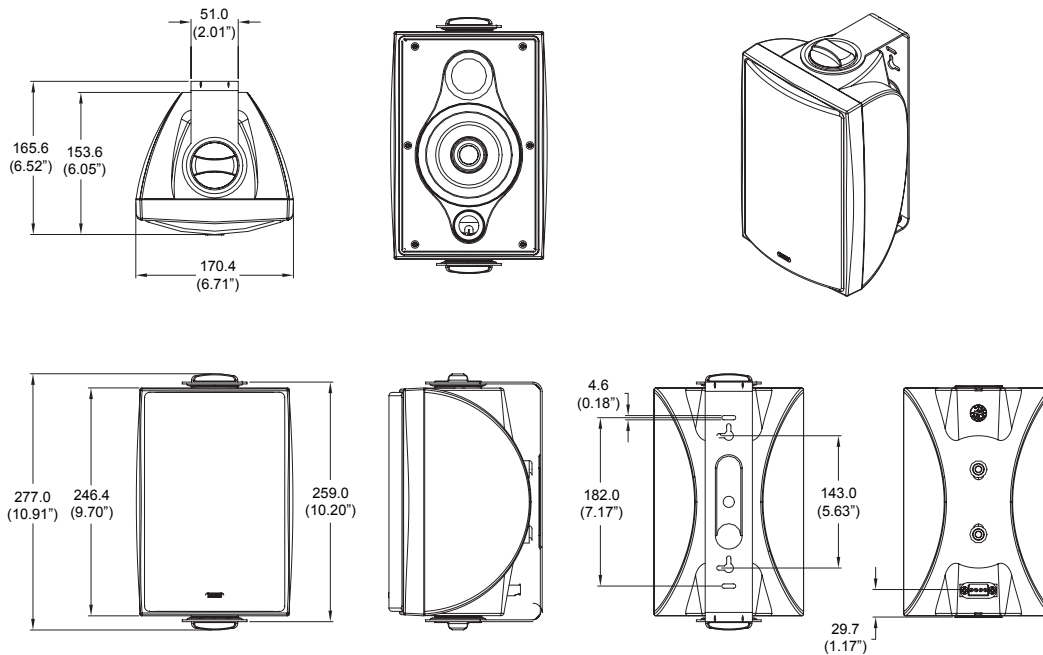
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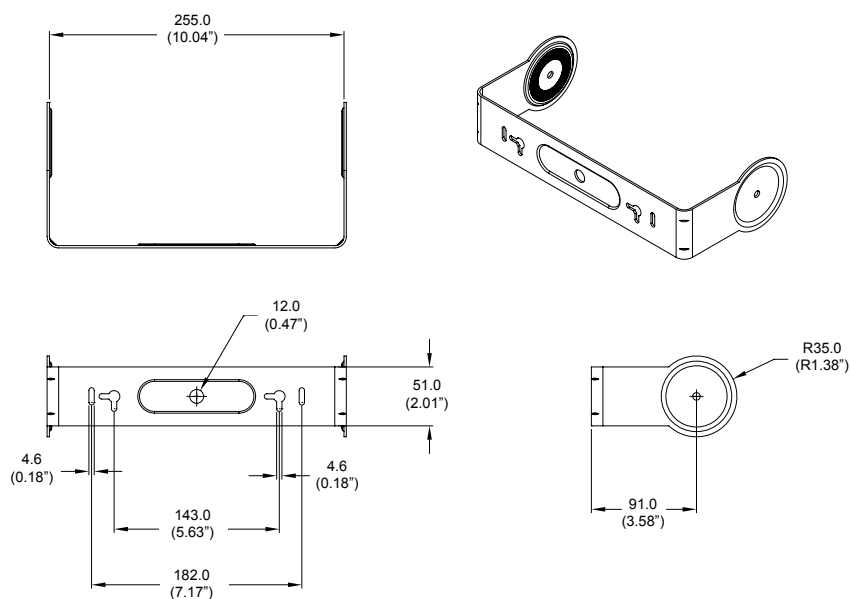
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## DIMENSIONAL SKETCHES



## SUPPLIED ACCESSORIES

### DVS 4 Yoke Bracket



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## Architectural specifications DVS 4

The weather resistant, surface mount speaker system shall consist of a 100mm (4.00") mineral loaded mid bass driver with coaxially mounted 19mm (0.75") high frequency unit and passive frequency dividing network optimally tuned vented, injection moulded high impact polystyrene (HIPS) enclosure IP64 to EN60529. The protective grille shall be constructed from mild steel or aluminium with a weather resistant coating.

Performance of the DVS 4 surface mount speaker shall meet or exceed the following criteria: The system shall have a conical coverage pattern of 110 degrees (-6dB). Frequency response measured on axis shall be 75Hz-20kHz (-10dB) from rated sensitivity, average over stated bandwidth. Measured 1 metre in an anechoic chamber) with no equalisation. Sensitivity shall be 84dB (1W=2.45V for 6 Ohms). Long term power handling capacity as defined in EIA-426B test shall be 40W, recommended amplifier power 80W. The nominal system impedance shall be 6 Ohms (in low impedance setting).

A removable Euroblock type locking connector with screw terminals to secure wire termination with "loop through" facility shall be provided. A yoke mounting bracket shall be included with the speaker system.

The dimensions shall not exceed (H)277.0 x (W)170.4 x (D)165.6mm (10.91 x 6.71 x 6.52")

The surface mount system shall be the ..... DVS 4

## Architectural specifications DVS 4t

The weather resistant, surface mount speaker system shall consist of a 100mm (4.00") mineral loaded mid bass driver with coaxially mounted 19mm (0.75") high frequency unit and passive frequency dividing network optimally tuned vented, injection moulded high impact polystyrene (HIPS) enclosure IP64 to EN60529. The protective grille shall be constructed from mild steel aluminium with a weather resistant coating.

Performance of the DVS 4t surface mount speaker shall meet or exceed the following criteria: The system shall have a conical coverage pattern of 110 degrees (-6dB). Frequency response measured on axis shall be 75Hz-20kHz (-10dB) from rated sensitivity, average over stated bandwidth. Measured 1 metre in an anechoic chamber) with no equalisation. Sensitivity shall be 84dB (1W=2.45V for 6 Ohms). Long term power handling capacity as defined in EIA-426B test shall be 40W, recommended amplifier power 80W. The nominal system impedance shall be 6 Ohms (in low impedance setting).

The DVS 4t speaker system shall be equipped with a 30W high performance line transformer for use with 70.7 or 100 Volt distributed audio systems with 30W / 15W / 7.5W / 3.75W\*Watt, OFF and low impedance settings.

A removable Euroblock type locking connector with screw terminals to secure wire termination with "loop through" facility shall be provided. A yoke mounting bracket shall be included with the speaker system.

The dimensions shall not exceed (H) 277.0 x (W) 170.4 x (D)165.6mm (10.91 x 6.71 x 6.52")

The surface mount system shall be the ..... DVS 4t

\*70 Volt only



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## NOTES

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