



Product description

Designed for a wide variety of discrete small scale sound reinforcement applications, the Tannoy DVS 8 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 200 mm (8.00") mid bass driver with a coaxially mounted 19 mm (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 aluminium grille 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 8 can be mounted vertically or horizontally without compromising the dispersion and coverage control.

Features

- 200 mm (8.00") 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
- Low insertion loss 60 W transformer for use in distributed audio installations (DVS 8t only)

Transformer version – the DVS 8t

The DVS 8t model option is equipped with an internally mounted low insertion loss line transformer for 70 V or 100 V distributed sound applications. Wattage taps are configurable to the following settings via a rotary tapping switch, which is located on the back panel.

70 V systems: 60 W / 30 W / 15 W / 7.5 W / OFF & low impedance operation

100 V systems: 60 W / 30 W / 15 W / OFF & low impedance operation

Physical data

Dimensions HxWxD: 451.8 mm x 290.0 mm x 296.0 mm, (17.78 x 11.42 x 11.65")

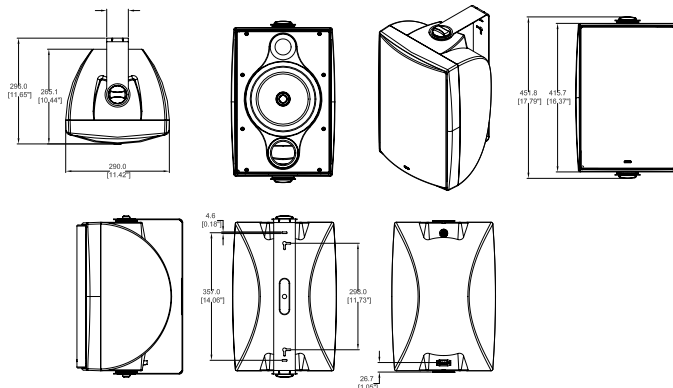
Net Weight: 5.3 kg (11.67 lbs)

Net Weight (DVS 6t): 6.3 kg (13.88 lbs)

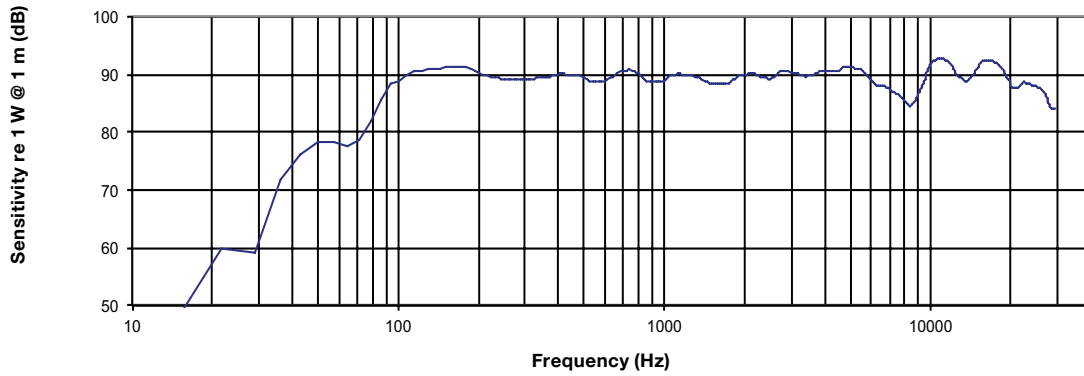
Finish: Black or white aluminium

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

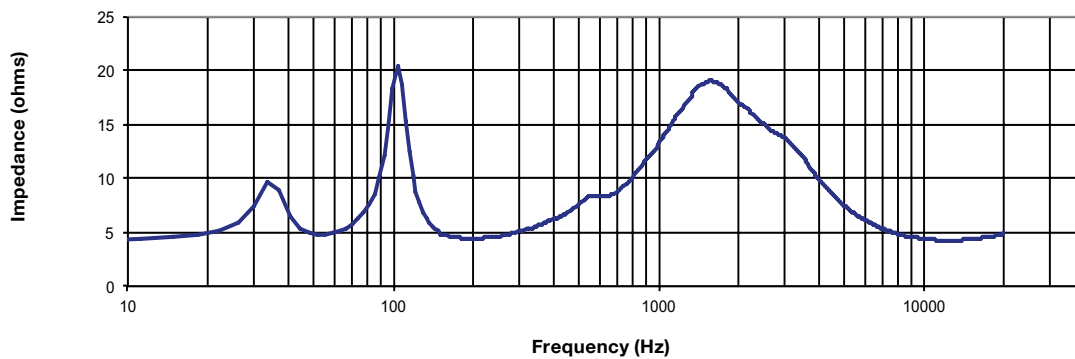


1 m on-axis Frequency Response



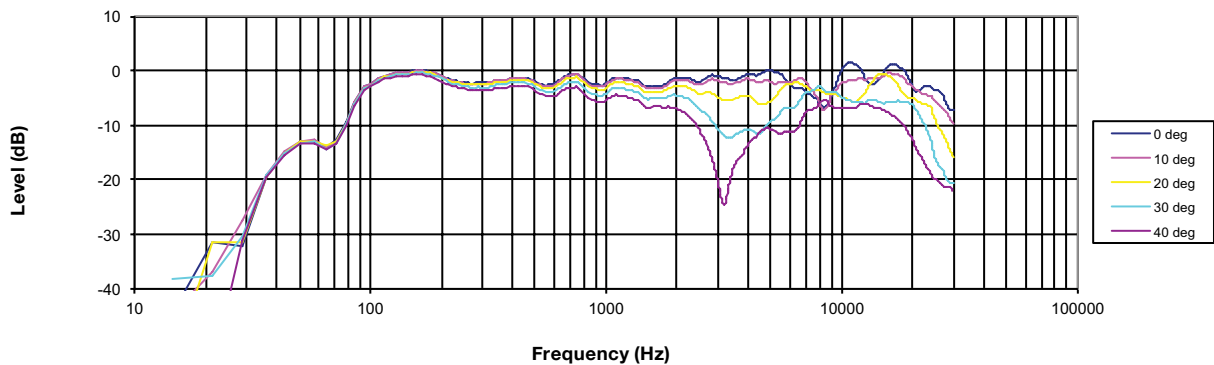
Anechoic Frequency Response

Impedance vs frequency



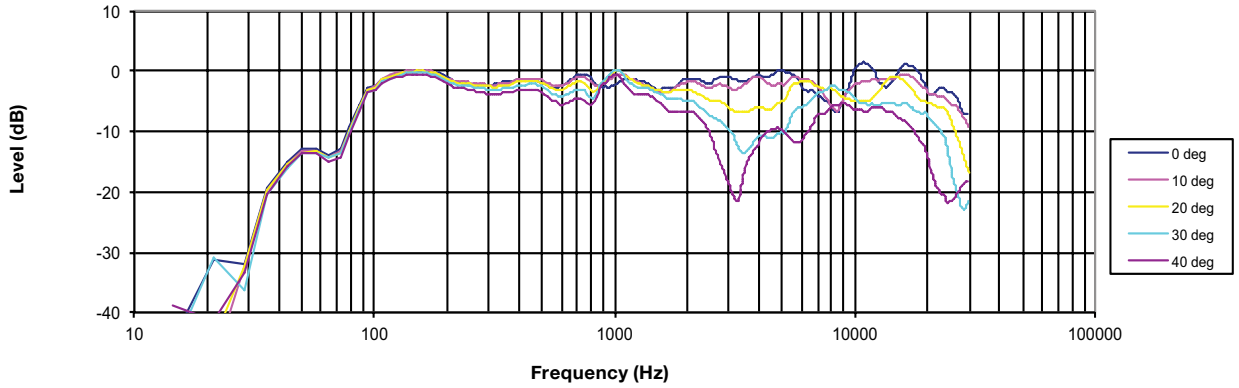
Impedance

Off-axis Frequency Response



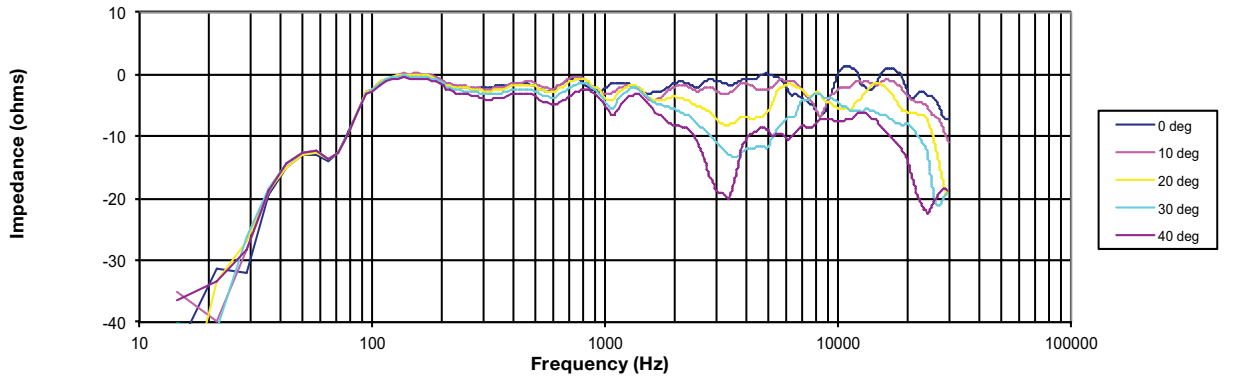
Horizontal Off Axis Response

Upper Vertical Off-axis Frequency Response



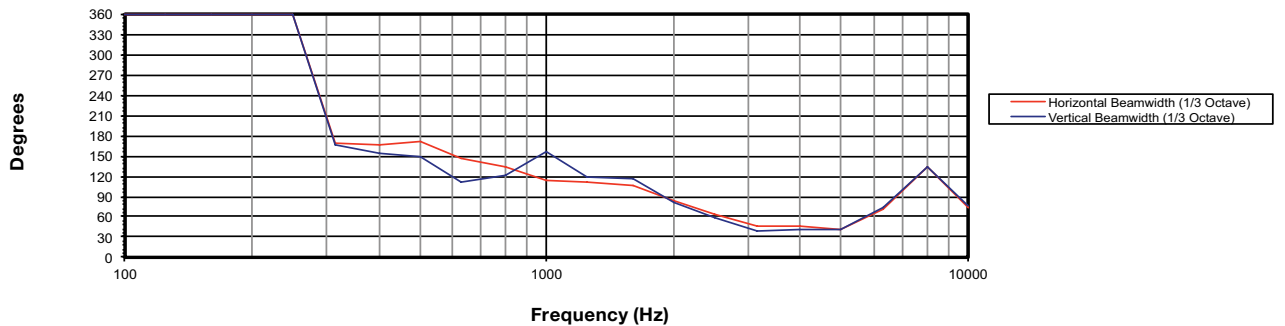
Upper Vertical Off-axis Response

Lower Vertical Off-axis Frequency Response



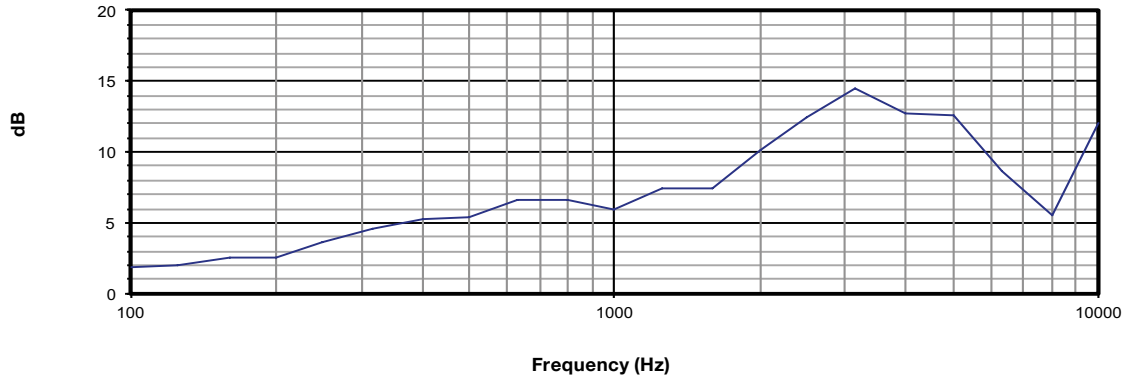
Lower Vertical Off-axis Frequency Response

Beamwidth vs Frequency



Beamwidth

DI vs Frequency

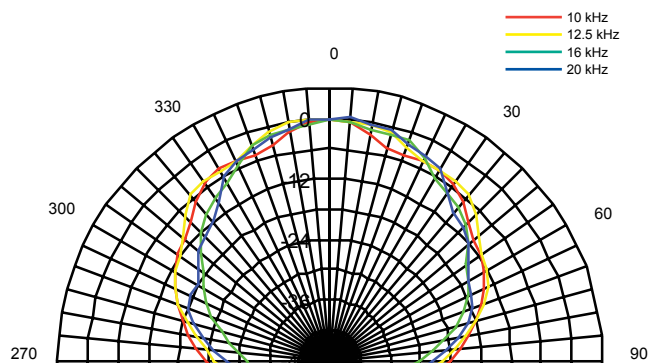
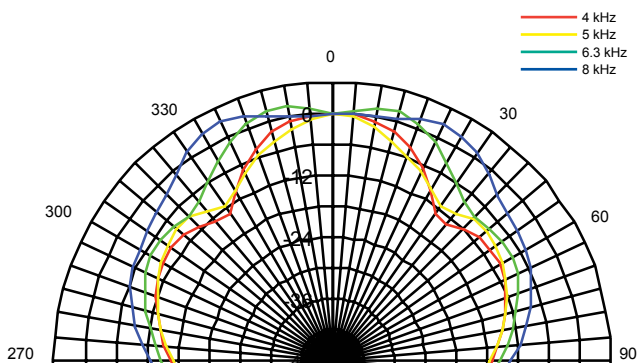
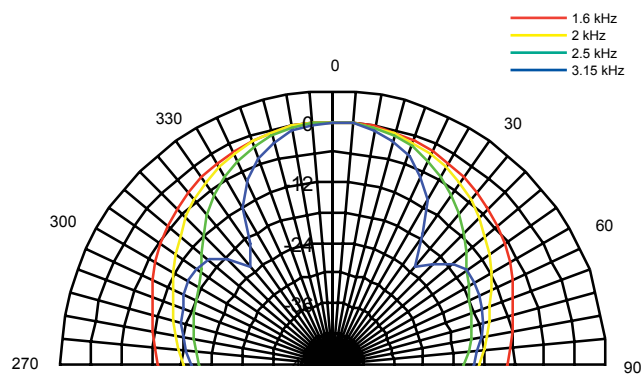
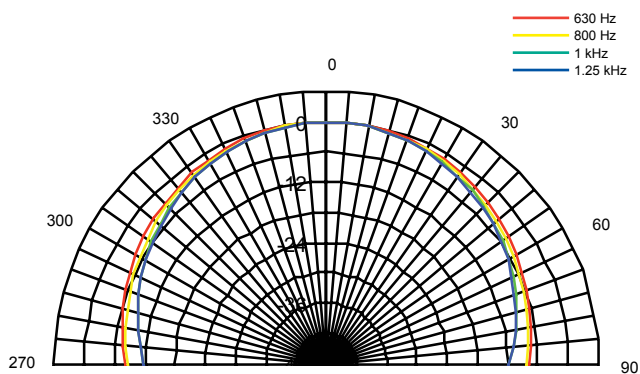
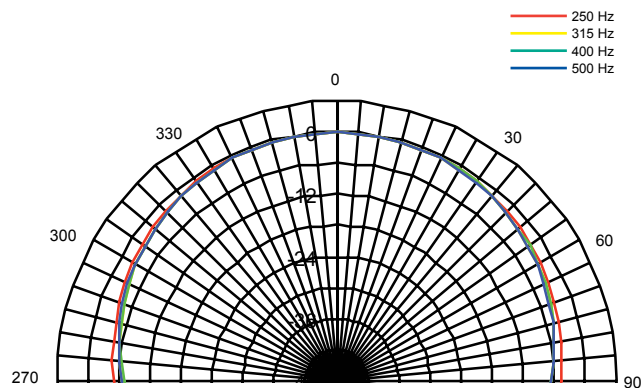
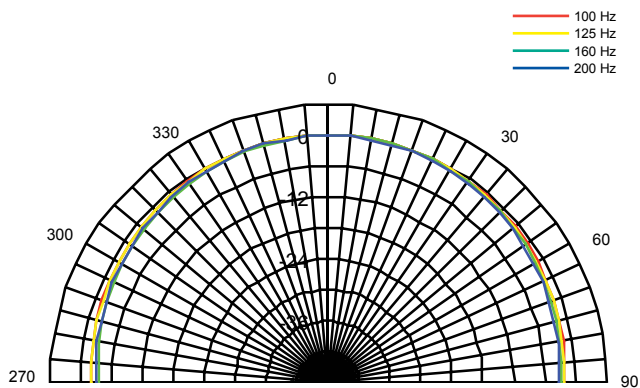


Directivity Index

Technical Data Sheet

Polar plots (1/3 octave) Horizontal

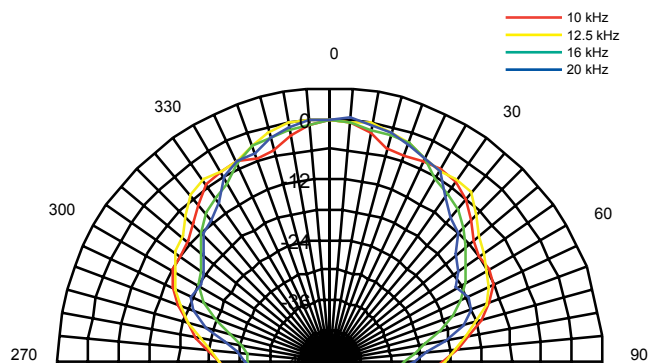
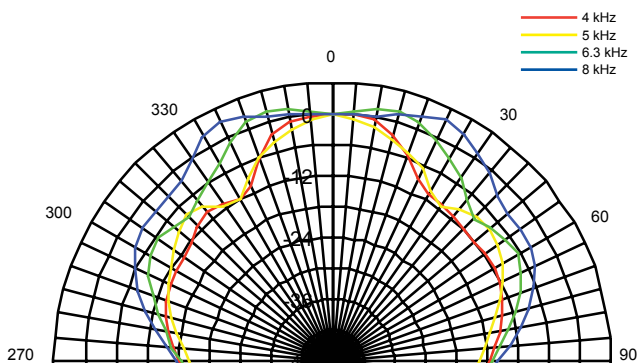
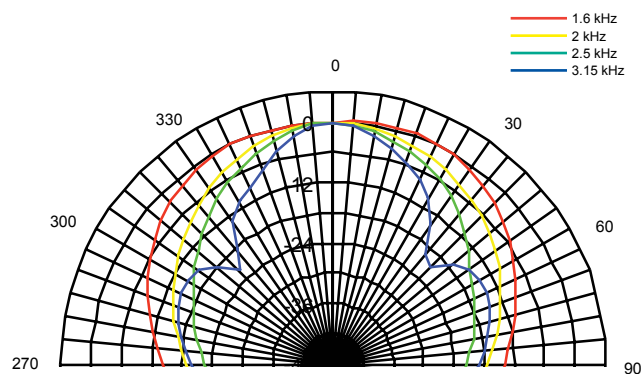
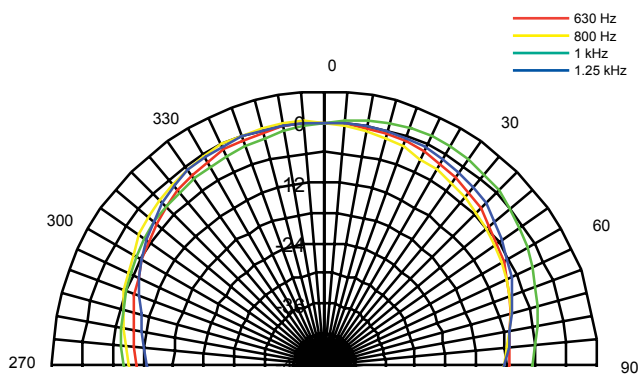
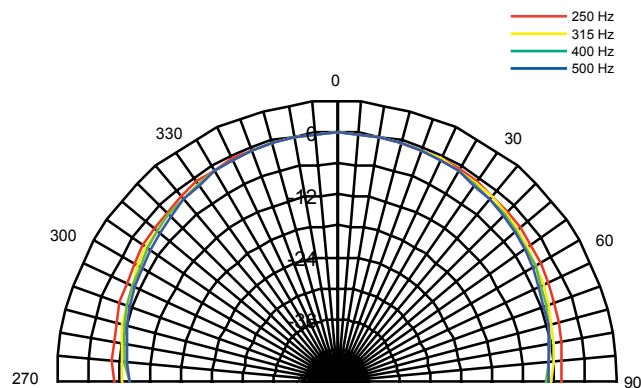
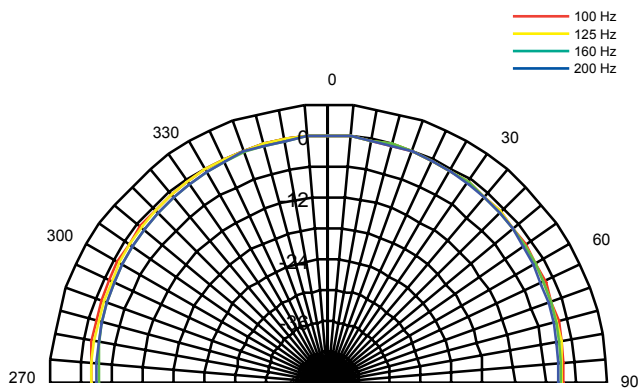
DVS 8 / DVS 8t



Technical Data Sheet

Polar plots (1/3 octave) Vertical

DVS 8 / DVS 8t



DVS 8

The weather resistant, surface mount speaker system shall consist of a 200 mm (8.00") mineral loaded mid bass driver with coaxially mounted 19 mm (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 aluminium with a weather resistant coating.

Performance of the DVS 8 surface mount speaker shall meet or exceed the following criteria: The system shall have a conical coverage pattern of 80 degrees (-6 dB). Frequency response measured on axis shall be 75 Hz - 20 kHz (-10 dB) from rated sensitivity, average over stated bandwidth. Measured 1 metre in an anechoic chamber) with no equalisation. Sensitivity shall be 90 dB (1 W = 2.45 V for 6 Ohms). Long term power handling capacity as defined in EIA-426B test shall be 70 W, recommended amplifier power 140 W. 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) 451.8 x (W) 290.0 x (D) 296.0 mm (17.78 x 11.42 x 11.65")

The surface mount system shall be the DVS 8

DVS 8t

The weather resistant, surface mount speaker system shall consist of a 200 mm (8.00") mineral loaded mid bass driver with coaxially mounted 19 mm (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 aluminium with a weather resistant coating.

Performance of the DVS 8t surface mount speaker shall meet or exceed the following criteria: The system shall have a conical coverage pattern of 80 degrees (-6 dB). Frequency response measured on axis shall be 75 Hz - 20 kHz (-10 dB) from rated sensitivity, average over stated bandwidth. Measured 1 metre in an anechoic chamber) with no equalisation. Sensitivity shall be 87 dB (1 W = 2.45 V for 6 Ohms). Long term power handling capacity as defined in EIA-426B test shall be 90 W, recommended amplifier power 180 W. The nominal system impedance shall be 6 Ohms (in low impedance setting).

The DVS 8t speaker system shall be equipped with a 60 W high performance line transformer for use with 70.7 or 100 Volt distributed audio systems with 60 W / 30 W / 15 W / 7.5 W* 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) 451.8 x (W) 290.0 x (D) 296.0 mm (17.78 x 11.42 x 11.65")

The surface mount system shall be the DVS 8t

*70 Volt only

Technical Data Sheet

Specifications

DVS 8 / DVS 8t

Performance	
System	DVS 6
Frequency response (-3 dB) ⁽¹⁾	75 Hz - 20 kHz
Frequency range (-10 dB) ⁽¹⁾	60 Hz - 30 kHz
Rated sensitivity (1W @ 1m) ⁽²⁾	90 dB
Dispersion (-6 dB)	80 degrees conical
Directivity factor (Q)	12.3 averaged 1 kHz to 10 kHz
Directivity Index (DI)	10.0 averaged 1 kHz to 10 kHz
Power Handling	
Average	70 W
Programme	140 W
Peak	280 W
Recommended Amplifier Power	140 W @ 6 ohms
Nominal Impedance (Lo, Z)	6 ohms
Rated maximum SPL (1 m, Lo Z) ⁽²⁾	
Average	108 dB
Peak	114 dB
Crossover Point	3.4 kHz - 2nd order LF, 2nd order HF

Distortion				
10% full power (6.48 V)		Harmonics		
		2nd	3rd	
	250 Hz	0.891%	0.217%	
	1 kHz	0.235%	0.643%	
	10 kHz	0.666%	0.093%	
1% full power (2.05 V)				
	250 Hz	0.236%	0.192%	
	1 kHz	0.051%	0.409%	
	10 kHz	0.217%	0.081%	

Transducers	
Low Frequency	200 mm (8.00") mineral loaded cone material
High Frequency	19 mm (0.75")

Physical	
Enclosure	ABS
Grille	Aluminium, Painted
Connectors	Euroblock type removable locking connector with screw terminals with "loop through" facility
Transformer Setting	Rotary switch
Dimensions (H x W x D)	451.8 x 290.0 x 296.0 mm (17.78 x 11.42 x 11.65")
Net Weight (ea)	5.3 kg (11.67 lbs)
Shipped weight	14.6 kg (32.16 lbs)
Supplied Accessories	Yoke bracket
Packed Quantity	2

Transformer Version (specifications as above except)	
Transformer Taps (via front rotary switch)	
70 V	60 W (83 Ω) / 30 W (165 Ω) / 15 W (330 Ω) / 7.5 W (660 Ω) / OFF & low impedance operation
100 V	60 W (165 Ω) / 30 W (330 Ω) / 15 W (660 Ω) / OFF & low impedance operation
Maximum wire gauge for connector	2.5 mm ² CSA (AWG12)
Safety Agency Ratings	UL-1480, CE
Net Weight (ea)	6.3 kg (13.88 lbs)
Shipped Weight	16.6 kg (36.56 lbs)

Ordering Information	Part Number	Colour
	8001 6750	
	DVS 8	Black
	8001 6751	
	DVS 8	White
	8001 6760	
	DVS 8t	Black
	8001 6761	
	DVS 8t	White



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, CLF and Ease™ Data for DVS 8 can be downloaded from www.tannoypro.com.

Tannoy operates a policy of continuous research and development. The introduction of new materials or manufacturing methods will always equal or exceed the publishing specifications, which Tannoy reserves the right to alter without prior notice. Please verify the latest specifications when dealing with critical applications.

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