



## Product Description

Conceived, engineered and built with precision in the United Kingdom, VXP Series represents a brand new evolution in Tannoy's core philosophies in self-powered loudspeaker design. Tannoy VXP 6 combines the technological refinement of the passive VX 6 with the brand new IDEEA™ integrated power module from Lab.gruppen. The result is a highly compact, ultra-reliable and efficient, self-powered loudspeaker offering a punchy and sonically superior solution for small-scale sound reinforcement and high performance speech reproduction where clarity and vocal character are paramount. The VXP 6 has also been acoustically matched with the wider range of VXP Series models, making it a perfectly capable component within much larger installations.

The VXP 6 is built around a single 150 mm (6") Dual Concentric™ driver mounted within an ultra-compact, rugged birch plywood cabinet with aesthetically profiled edges and airtight-backed, powder-coated steel grille. The latest version of Tannoy's exclusive point source, constant directivity Dual Concentric drive unit ensures high sensitivity and exceptional efficiency. This unique configuration delivers optimum coverage, exceptional forward gain and excellent acoustic performance. The dispersion characteristics of the Dual also enhance speaker placement flexibility; allowing vertical or horizontal mounting of single or multi-cabinet arrays without any compromise to sound quality.

The perfectly matched integrated Lab.gruppen IDEEA (IntelliDrive Energy Efficient Amplifier) modules are designed to handle the demands of fixed installation audio, with the inherent extended duty cycles of around-the-clock operation and very high performance demands, while offering the durability, unmatched power output and clarity required by portable applications. To ensure a long and trouble-free service life, IDEEA modules incorporate extensive features to safeguard internal circuits and driver compliance.

At the heart of the IDEEA module is a patented Class D output stage capable of high power levels with very low distortion and minimal current draw – all with a net operating efficiency in excess of 80%. A universal switching power supply accepts any mains voltage from 70 – 265 V (+/- 10%) at 50 Hz or 60 Hz through the appropriate IEC cord. In Auto mode, the speaker turns on with signal present and switches to standby mode after 20 minutes of no input, in doing so reducing power consumption to less than 1 W (while in standby). Manual control mode allows the speaker to be turned on and off as required. Also provided is a switchable 90 Hz high-pass filter for use when adding a subwoofer.

Audio connection is via XLR Input and power via PowerCON (included) on rear panel. VXP 6 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.

## Features

- 150 mm (6") Dual Concentric full-range driver
- Tightly controlled 90 degree dispersion for optimum coverage and forward gain
- Peak output 118 dB
- Integrated Lab.gruppen IDEEA electronics providing ultra-reliable Class D amplification
- Versatile mounting via optional custom designed hardware
- Pole-mountable for small-scale portable PA applications
- Exceptional sound and performance for a cabinet of this size
- Rugged and highly compact birch plywood enclosure
- Available in black or white textured paint finish – custom colours optional
- XLR input and link, PowerCON mains (included)

## Applications

- Performance Arts Spaces
- Theatres & Auditoria
- Bars, pubs and nightclubs
- Small scale live PA
- Theme parks and leisure venues
- Gymnasiums and small/medium sports arenas
- Portable corporate AV
- Conference rooms
- Houses of worship
- Cinemas

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# VXP 6

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## TECHNICAL SPECIFICATIONS

### System VXP 6

<b>Frequency Response (-3 dB) <sup>(1)</sup> Full range mode</b>	88 Hz - 35 kHz
<b>Frequency Range (-10 dB) <sup>(1)</sup> Full range mode</b>	80 Hz - 45 kHz
<b>Frequency Response (-3 dB) <sup>(1)</sup> Hi-Pass mode</b>	120 Hz - 35 kHz
<b>Frequency Range (-10 dB) <sup>(1)</sup> Hi-Pass mode</b>	100 Hz - 45 kHz
<b>Dispersion (-6 dB)</b>	90 degrees conical
<b>Driver Complement</b>	1 x 150 mm (6.00") constant directivity Dual Concentric™
<b>Crossover</b>	Passive 1.6 kHz with dynamic HF protection
<b>Directivity Factor (Q)</b>	5.6 averaged 1 kHz to 10 kHz
<b>Directivity Index (DI)</b>	7.0 averaged 1 kHz to 10 kHz
<b>Rated Maximum SPL <sup>(2)</sup></b>	112 dB (average) 118 dB (peak)

<b>Distortion</b>		
10% Full Power (8.94 V)	2nd Harmonic	3rd Harmonic
250 Hz	2.64%	0.365%
1 kHz	0.223%	0.458%
10 kHz	1.873%	0.29%
1% Full Power (2.83 V)	2nd Harmonic	3rd Harmonic
250 Hz	0.64%	0.314%
1 kHz	0.062%	0.436%
10 kHz	0.78%	0.266%

### Construction

<b>Enclosure</b>	9.2 litre birch plywood, vented and internally braced
<b>Finish</b>	Textured black or white paint, with custom colours on request. Powder coated perforated steel grille, Airnet cloth behind
<b>Connectors</b>	1 x female XLR (input), 1 male XLR (link), 1 x Neutrik Powercon
<b>Controls &amp; Indicators</b>	Level Control Power LED (Blue) Signal LED (Green) Limit/Protect LED (Red) Full Range / HighPass Switch (110Hz) Power Mode Switch Power Switch
<b>Fittings</b>	4 x M6 flying inserts, 2 x M6 yoke bracket inserts. Blanking plate for optional VTH pole mount
<b>Dimensions</b>	333 x 225 x 215 mm (HxWxD) 13.1 x 8.9 x 8.1" (HxWxD)

### Ordering Information

PART NUMBER	MODEL NAME	COLOUR	PACKED QUANTITY
8001 6500	VXP 6	BLACK	2
8001 6501	VXP 6	WHITE	2

<b>Net Weight</b>	TBA
<b>Shipped weight</b>	TBA
<b>Packed quantity</b>	2

### Electronics

<b>Maximum signal input for clip</b>	Input attenuator at Maximum: +4.5 dBu (Hard clip will occur at +14.5 dBu input signal)
<b>Dynamic Range</b>	106 dB
<b>Efficiency</b>	>90%
<b>Damping Factor</b>	>400 ref 8 ohms at 1 kHz
<b>Distortion</b>	<0.05% @ 1 kHz -3 dB output (22 kHz bandwidth)
<b>Input Impedance</b>	10 kohms unbalanced, 20 kohms balanced
<b>Damping Factor</b>	>400 ref 8 ohms at 1 kHz
<b>Distortion</b>	<0.05% @ 1 kHz -3 dB output (22 kHz bandwidth)

<b>Protection systems</b>	
<b>Over Current</b>	Output current limiter, always active
<b>Clip limiter</b>	Output voltage clip limiter, always active
<b>Temperature</b>	Over temperature causes protective mute
<b>Brownout</b>	Automatic protection & recovery
<b>Mains</b>	Inrush current limiter
<b>Indicators</b>	1x Power LED, 1x signal LED, 1x Limit LED (Power LED: Red = StandBy, Green = On, Yellow = Temperature protection active)

<b>Amplifier Type</b>	Inherently bridged, globally modulated, high performance single channel class D.
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### PSU Specifications

<b>Input Connector</b>	Locking Neutrik Powercon
<b>Voltage Selection</b>	Universal mains input
<b>Type</b>	High efficiency, regulated switch mode power supply
<b>Efficiency</b>	>85% typical
<b>Input voltage</b>	100 Vac-240 Vac +/- 10%, 50-60 Hz +/-10%
<b>Mains fuse</b>	Internal
<b>Fuse type</b>	3,15AT
<b>Other features</b>	Inrush current limiter
<b>StandBy power consumption</b>	<1 W
<b>Idle power consumption</b>	<15 W
<b>Maximum power consumption</b>	300 W

#### 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.

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