



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 8.2 combines the technological refinement of the passive VX 8.2 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 high fidelity and sonically superior solution for small-medium scale sound reinforcement and high performance speech reproduction where clarity and vocal character are paramount. The VXP 8.2 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 8.2 is built around two discrete transducers, a 200 mm (8") Dual Concentric™ driver and a 200 mm (8") bass driver for LF extension, 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, while the addition of the LF transducer adds real impact and bass extension. This unique configuration delivers optimum coverage, exceptional forward gain and excellent acoustic performance.

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 compliment.

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 8.2 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

- 200 mm (8") Dual Concentric driver and discrete 200 mm (8") bass driver for extended LF performance.
- Tightly controlled 90 degree dispersion for optimum coverage and forward gain
- Peak output 123 dB
- Integrated Lab.gruppen IDEEA electronics providing ultra-reliable Class D amplification
- Integrip™ handle ergonomically integrated into top of cabinet and pole-mountable for optimum portability.
- 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 8.2

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TECHNICAL SPECIFICATIONS

System	VXP 8.2	
Frequency Response (-3 dB) ⁽¹⁾ Full range mode	75 Hz - 35 kHz	
Frequency Range (-10 dB) ⁽¹⁾ Full range mode	60 Hz - 45 kHz	
Frequency Response (-3 dB) ⁽¹⁾ Hi-Pass mode	100 Hz - 35 kHz	
Frequency Range (-10 dB) ⁽¹⁾ Hi-Pass mode	80 Hz - 45 kHz	
Dispersion (-6 dB)	90 degrees conical	
Driver Complement	1 x 200 mm (8.00") constant directivity Dual Concentric™ 1 x 200 mm (8.00") bass driver	
Crossover	Passive 360 Hz and 1.5 kHz, with dynamic HF protection	
Directivity Factor (Q)	8.1 (averaged 1 kHz to 8 kHz)	
Directivity Index (DI)	9.2 (averaged 1 kHz to 8 kHz)	
Rated Maximum SPL ⁽²⁾	117 dB (average) 123 dB (peak)	
Distortion		
10% Full Power (8.94 V)	2nd Harmonic	3rd Harmonic
250 Hz	0.58%	0.34%
1 kHz	0.34%	0.69%
10 kHz	1.73%	0.15%
1% Full Power (2.83 V)	2nd Harmonic	3rd Harmonic
250 Hz	0.15%	0.15%
1 kHz	0.11%	0.37%
10 kHz	1.73%	0.22%

Construction

Enclosure	25.3 litre, 15 mm (0.62") birch plywood, vented and internally braced.
Finish	Textured black or white paint, with custom colours on request. Powder coated perforated steel grille, Airmet cloth behind
Connectors	1 x female XLR (input), 1 male XLR (link), 1 x Neutrik Powercon
Controls & Indicators	Level Control Power LED (Blue) Signal LED (Green) Limit/Protect LED (Red) Full Range / HighPass Switch (110Hz) Power Mode Switch Power Switch
Fittings	4 x M10 Flying inserts, 2 x M10 yoke bracket inserts. 2 x Integrip carrying handles. Blanking plate for optional VTH pole mount
Dimensions	590 x 280 x 275 mm (HxWxD) 23.2 x 11.0 x 10.8" (HxWxD)

Ordering Information

PART NUMBER	MODEL NAME	COLOUR	PACKED QUANTITY
8001 6520	VXP 8.2	BLACK	1
8001 6521	VXP 8.2	WHITE	1

Net Weight	TBA
Shipped weight	TBA
Packed quantity	1
Electronics	
Maximum signal input for clip	Input attenuator at Maximum: +4.5 dBu (Hard clip will occur at +14.5 dBu input signal)
Dynamic Range	106 dB
Efficiency	>90%
Damping Factor	>400 ref 8 ohms at 1 kHz
Distortion	<0.05% @ 1 kHz -3 dB output (22 kHz bandwidth)
Input Impedance	10 kohms unbalanced, 20 kohms balanced
Damping Factor	>400 ref 8 ohms at 1 kHz
Distortion	<0.05% @ 1 kHz - 3 dB output (22 kHz bandwidth)
Protection systems	
Over Current	Output current limiter, always active
Clip limiter	Output voltage clip limiter, always active
Temperature	Over temperature causes protective mute
Brownout	Automatic protection & recovery
Mains	Inrush current limiter
Indicators	1x Power LED, 1x signal LED, 1x Limit LED (Power LED: Red = StandBy, Green = On, Yellow = Temperature protection active)
Amplifier Type	Inherently bridged, globally modulated, high performance single channel class D.

PSU Specifications

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

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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