TANNOY_®

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Product Description

Tannoy (Direct UK)

TCGI (ROW sales)

Tannoy Middle East

TCGA (Americas sales)

Conceived, engineered and built with precision in the United Kingdom, VXP Series represents the latest evolution of Tannoy's core philosophies in self-powered loudspeaker system design. The Tannoy VXP 8.2 features the brand new IDEEATM (IntelliDrive Energy Efficient Amplifier) integrated power module from Lab.gruppen. The result is a highly compact, ultra-reliable and exceptionally efficient self-powered loudspeaker. VXP 8.2 offers a punchy and sonically superior solution for small-scale sound reinforcement as well as for reproduction where clarity and natural vocal characteristics are paramount. The VXP 8.2 has been sonically matched with the wider range of VXP Series models, this allows consistency in installations where a mix of products is utilised.

The VX 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. Both are mounted in a rugged birch plywood cabinet with aesthetically profiled edges and an Arinet[™]-backed, powder-coated steel grille. The latest high power-handling 200 mm (8") version of Tannoy's exclusive point source, constant directivity Dual Concentric drive unit technology ensures high power output with high sensitivity and exceptional efficiency. VX 8.2 is a 3-way design, with a 1.5 kHz passive crossover between the low- and high-frequency drivers and a 360 Hz low-pass filter for the bass driver to prevent midrange cancellations with the Dual Concentric driver. The VX 8.2 delivers tightly controlled 90 degree conical dispersion for optimum coverage, exceptional forward gain plus the added benefit of improved bass extension from the new twin driver configuration.

The perfectly matched Lab.gruppen IDEEA integrated power module efficiently and effectively handles the demands of both fixed installation and portable audio. IDEEA modules are designed for superlative audio performance, robust power output and long-term durability – even with extended duty cycles up to round-the-clock operation. Extensive features to safeguard internal circuits and connected drivers ensure a long and trouble-free service life. 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, with standby power consumption of less than 1 W. Manual control mode allows the speaker to be turned on and off as required. A switchable 90 Hz high-pass filter tailors response for use with a subwoofer.

Rear panel connections are provided for audio input (XLR-F), audio link (XLR-M) and AC power (Neutrik® powerCON®). 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.

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Features

- 200 mm (8") Dual Concentric driver and discrete 200 mm (8") bass driver for extended LF performance.
- Well defined 90 degree dispersion for optimum coverage and forward gain
- Peak output of 123 dB
- Integrated Lab gruppen IDEEA module
 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;
- Available in black or white textured paint linish, custom colours optional
- XLR input and link, powerCON mains (included)

Applications

- Theatres, Auditoria and Houses of Worship
- · Small scale PA and compact voice reinforcement
- · Bars and infill for nightclubs
- Portable and installed corporate AV
- Theme parks and leisure venues
- Gymnasiums and small/medium sports arenas

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Fittings

Dimensions

TECHNICAL SPECIFICATIONS

Loudspeaker	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") constant directivity Dual Concentric™ 1 x 200 mm (8") bass driver	
Crossover	Passive 360 Hz a with dynamic HF	
Directivity factor (Q)	8.1 (averaged 1 k	Hz to 8 kHz)
Directivity index (DI)	9.2 dB (averaged	1 kHz to 8 kHz)
Rated maximum SPL ⁽²⁾	117 dB (average)	123 dB (peak)
Distortion		
10% Full Power (8.94 V) 250 Hz 1 kHz 10 kHz	2nd Harmonic 0.58% 0.34% 1.73%	3rd Harmonic 0.34% 0.69% 0.15%
1% Full Power (2.83 V) 250 Hz 1 kHz 10 kHz	2nd Harmonic 0.15% 0.11% 1.73%	3rd Harmonic 0.15% 0.37% 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 Airnet cloth behind.	
Connectors	1 x female XLR (input), 1 x 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 (110 Hz) Power Mode Switch Power Switch	

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at 1 metre in an anechoic chamber. e data, and Ease™ Data can be downloaded
ous improvement through research and Jal or exceed published specifications,new d introduce variances. All figures are subject

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Net weight 15.5 kg (34.2 lbs) н **Ordering information** PART NUMBER PACKED QUANTITY MODEL NAME COLOUR 8001 6520 **VXP 8.2** BLACK 1 8001 6521 VXP 8.2 WHITE 1 L Tannoy (Direct UK) T: +44 (0) 1236 420199 E: enquiries@tannoy.com tannoy₀com TCGI (ROW sales) T: +45 8742 7000 E: info@tcgroup-international.com TCGA (Americas sales) T: +1 (519) 745 1158 E: info@tcgroup-americas.com Tannoy Middle East T: +971 (04) 4401208 E: enquiries@tannoy.com

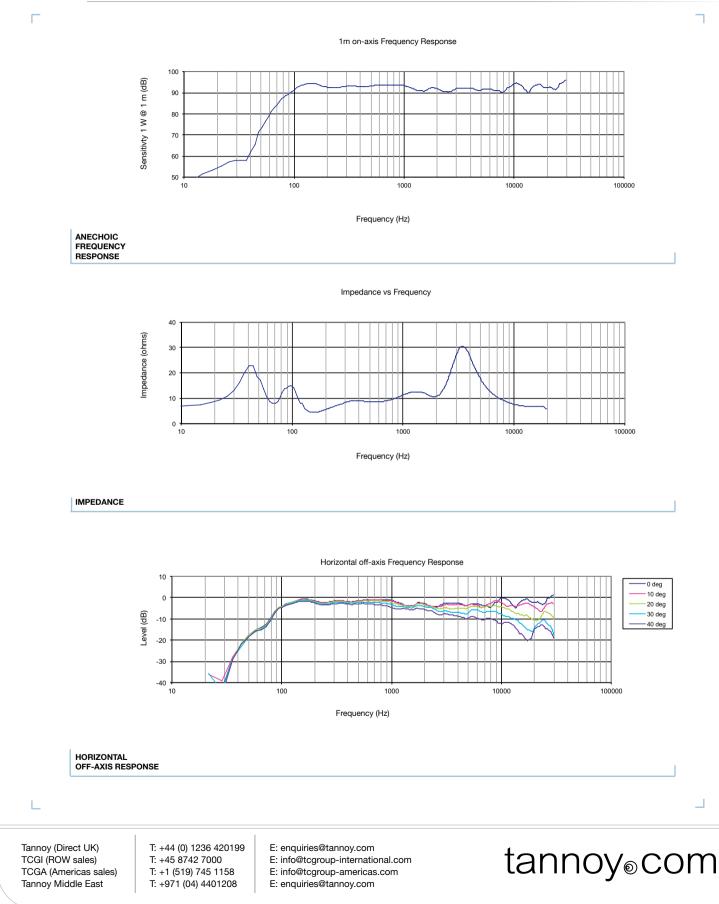
4 x M10 Flying inserts, 4 x M10 yoke bracket inserts (6 mm allen key),2 x Integrip carrying handles, Blanking plate for optional VTH pole mount

590 x 280 x 275 mm (HxWxD) 23.2 x 11 x 10.8" (HxWxD)

VXP 8.2 // issue 2.00 // 22.07.15

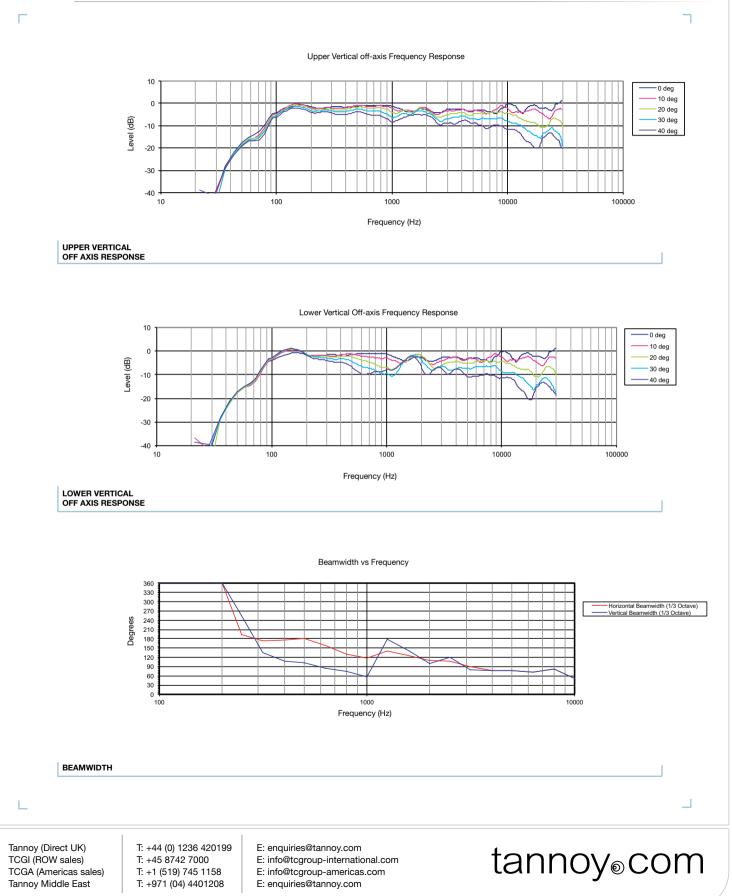
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PERFORMANCE MEASUREMENTS

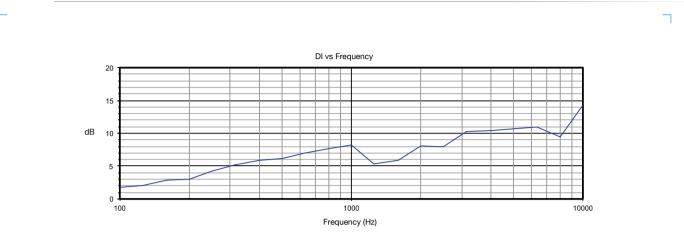


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PERFORMANCE MEASUREMENTS



PERFORMANCE MEASUREMENTS



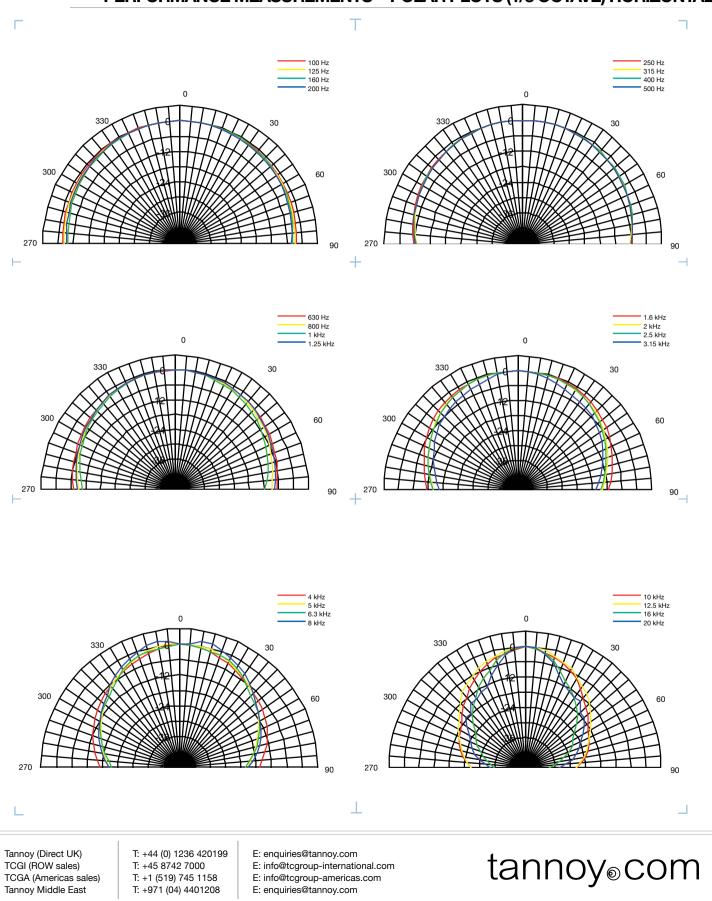
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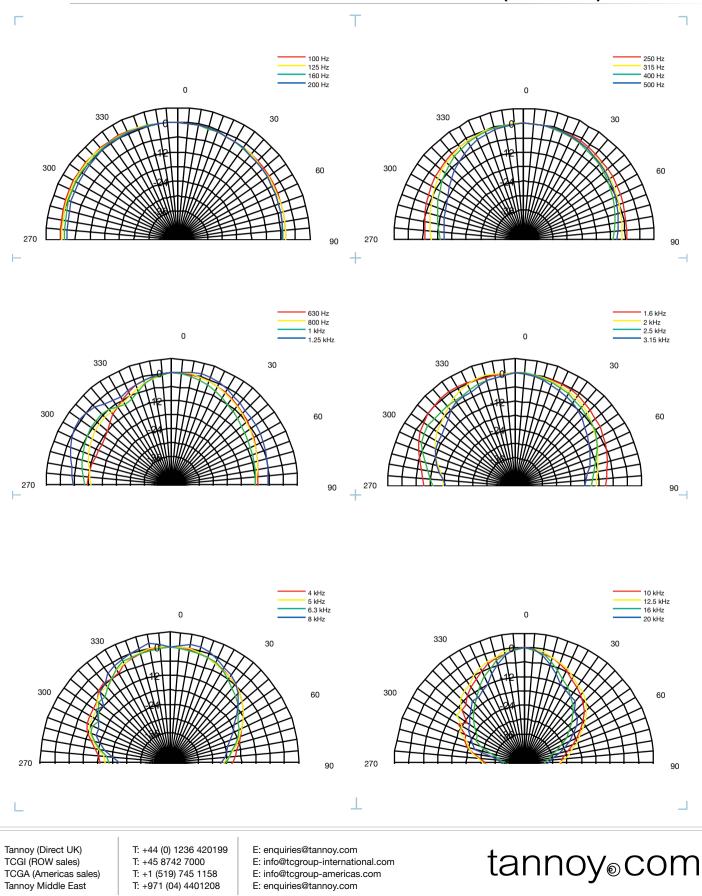
PERFORMANCE MEASUREMENTS - POLAR PLOTS (1/3 OCTAVE) HORIZONTAL



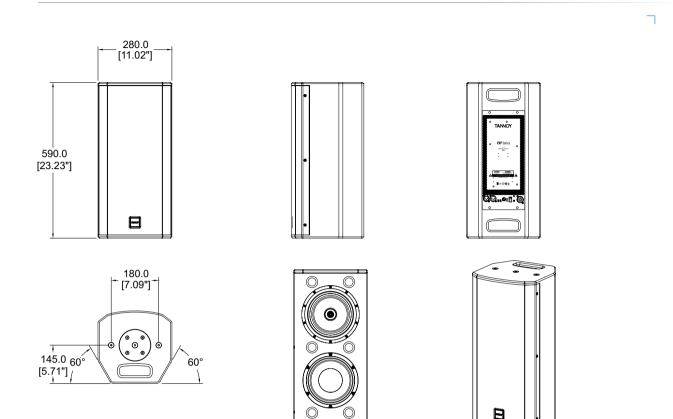
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PERFORMANCE MEASUREMENTS - POLAR PLOTS (1/3 OCTAVE) VERTICAL



DIMENSIONAL DRAWINGS



Architect's and Engineer's specifications

The loudspeaker shall consist of a 200 mm (8") full-range, point source Dual Concentric transducer and a discrete 200 mm bass driver. The low and high frequency elements shall be driven by an integrated single-channel Class D amplifier through an internal passive crossover network operating at 1.5 kHz. A low-pass filter operating at 360 Hz shall limit midrange response of the bass driver to prevent destructive interference. The amplifier module shall incorporate an auto power down (APD) circuit that places the loudspeaker in standby mode with less than 1 W power consumption when input signal is absent for more than 20 minutes, resuming full operation when signal is again present at the input.

Performance of the loudspeaker shall meet or exceed the following criteria: Frequency response measured at 1 metre on axis with swept sine wave shall be 75 Hz to 35 kHz (3 dB) in full-range mode and 100 Hz to 35 kHz in high-pass mode. Rated average SPL shall be 117 dB (anechoic) on axis at 1 metre. The dispersion of the loudspeaker shall be 90 degrees conical (-6 dB).

The enclosure shall be an optimally tuned 25.3 litre vented 15 mm (0.62") birch plywood cabinet. Connectors shall be 1 x female XLR (input), 1 x male XLR (link) and 1 x Neutrik powerCON. The speaker shall be fitted with the following controls and indicators: level control, blue power LED, green signal LED, red limit LED, full range / high pass switch (110 Hz) and a power switch. The enclosure shall be fitted with 4 x integral M10 inserts for flying hardware, 2 x M10 yoke bracket inserts and two integrated carrying handles. There shall be a blanking plate for an optional pole mount adaptor.

The enclosure shall not exceed the following dimensions: 590 x 280 x 275 mm or 23.2 x 11 x 10.8" (H x W x D). The loudspeaker shall be the Tannoy VXP 8.2.

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