



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 12 combines the technological refinement of the passive VX 12 with the brand new IDEEA™ integrated power module from Lab.gruppen. The result is a compact, ultra-reliable and efficient, self-powered loudspeaker offering a punchy and sonically superior solution for small-medium scale sound reinforcement and high performance speech reproduction where clarity and vocal character are paramount. The VXP 12 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 12 is built around a single 300mm (12") Dual Concentric™ driver mounted within a 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 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 12 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

- 300 mm (12") Dual Concentric full-range driver
- Tightly controlled 90 degree dispersion for optimum coverage and forward gain
- Peak output 127 dB
- Integrated Lab.gruppen IDEEA electronics providing ultra-reliable Class D amplification
- Versatile mounting via optional custom designed hardware
- Pole-mountable for small and medium 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-medium scale live PA
- Theme parks and leisure venues
- Gymnasiums and small/medium sports arenas
- Portable corporate AV
- Conference rooms
- Houses of worship
- Cinemas

Tannoy (Direct UK)
TCGI (ROW sales)
TCGA (Americas sales)
Tannoy Middle East

T: 00 44 (0) 1236 420199
T: 00 45 8742 7000
T: 00 1 (519) 745 1158
T: 00 971 (04) 4401208

E: enquiries@tannoy.com
E: info@tcgroup-international.com
E: info@tcgroup-americas.com
E: enquiries@tannoy.com

tannoy®.com



VXP 12

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TECHNICAL SPECIFICATIONS

| | |
|---|--|
| System | VXP 12 |
| Frequency Response (-3dB) ⁽¹⁾ Full range mode | 70 Hz - 25 kHz |
| Frequency Range (-10dB) ⁽¹⁾ Full range mode | 55 Hz - 38 kHz |
| Frequency Response (-3dB) ⁽¹⁾ Hi-Pass mode | 100 Hz - 25 kHz |
| Frequency Range (-10dB) ⁽¹⁾ Hi-Pass mode | 80Hz - 38kHz |
| Dispersion (-6dB) | 90 degrees conical |
| Driver Complement | 1 x 300mm (12.00") constant directivity Dual Concentric™ |
| Crossover | Passive 1kHz with HF protection |
| Directivity Factor (Q) | 9.6 (averaged 1kHz to 8kHz) |
| Directivity Index (DI) | 9.8 dB (averaged 1kHz to 8kHz) |
| Rated Maximum SPL ⁽²⁾ | 121 dB (average) 127 dB (peak) |

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|--------------------------|--------------|--------------|
| Distortion | | |
| 10% Full Power (12.65 V) | 2nd Harmonic | 3rd Harmonic |
| 250 Hz | 0.52% | 0.58% |
| 1 kHz | 2.98% | 0.63% |
| 10 kHz | 3.58% | 0.19% |
| 1% Full Power (4 V) | 2nd Harmonic | 3rd Harmonic |
| 250 Hz | 0.10% | 0.26% |
| 1 kHz | 0.81% | 0.58% |
| 10 kHz | 1.18% | 0.03% |

Construction

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| Enclosure | 36.4 litre, 15mm (enclosure) and 18 mm (front) 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 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 | 8 x M10 Flying inserts (portrait or landscape mounting), 8 x M10 yoke bracket inserts. 2 x Integrip carrying handles. Blanking plate for optional VTH pole mount |
| Dimensions | 490 x 370 x 380mm (HxWxD) 19.3 x 14.6 x 15.0" (HxWxD) |

Ordering Information

| PART NUMBER | MODEL NAME | COLOUR | PACKED QUANTITY |
|-------------|------------|--------|-----------------|
| 8001 6530 | VXP 12 | BLACK | 1 |
| 8001 6531 | VXP 12 | WHITE | 1 |

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|------------------------|-----|
| Net Weight | TBA |
| Shipped weight | TBA |
| Packed quantity | 1 |

Electronics

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| 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) |

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| 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) |

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| Amplifier Type | Inherently bridged, globally modulated, high performance single channel class D. |
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PSU Specifications

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| 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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