

TXD SERIES ENGINEERING INFORMATION

The TXD-151 is a trapezoidal passive two-way loudspeaker enclosure designed for use in a wide variety of live sound, fixed installation and mobile DJ applications that require professional sound quality in an easily transportable format.

It consists of a 15" reflex-loaded low frequency driver and a 1" high frequency compression driver on a 70°H x 40°V dispersion HF horn in an optimally tuned trapezoidal enclosure. These high grade components are matched with an internal passive crossover network to ensure a seamless transition between the HF and LF drivers.

The crossover network incorporates a two-stage thermal overload protection system which prevents damage to the high frequency driver, reacting instantly to large transient peaks while still allowing wide dynamic range to be maintained. Although the protection system is transparent at normal operating levels, as the level increases the signal is gradually and imperceptibly compressed once the critical threshold has been reached.



The cabinet is constructed from 15mm (5/8") birch plywood, screwed and glued together for maximum rigidity, and is finished as standard in semi-matt textured TurboBlue™ paint. A pole mount socket is fitted for use with optional 35mm poles and loudspeaker stands. Two recessed flush handles are provided for easy lifting and carrying and four rubber feet are fitted to the bottom of the cabinet. A grey powder-coated perforated steel mesh grille protects the drive units from damage.

M10 rigging points are provided on the top and rear of the cabinet to enable the TXD-151 to be suspended and angled in permanent installations using shoulder eyebolts. Two Neutrik Speakon NL4MP speaker connectors are located on the rear panel, providing input and parallel connections to additional TXD series cabinets.

Recommended complementary products:

TXD-115, TXD-215, TXD-118 bass enclosures

FEATURES

- Compact enclosure**
- Trapezoidal shape**
- Rigging points**
- Pole mount socket**
- Passive crossover**
- HF protection**

APPLICATIONS

- Live sound**
- Mobile DJ**
- Fixed installations**

| | | | | | | | | | | | | | |
|---------------------------------------|---|---------|----------------------------|---------|------------------------|--------|---------------------------------|--------|----------------------------------|----------|--------------|----------|---------------------------|
| DIMENSIONS (HxWxD) | 652mm x 465mm x 423mm (25.7" x 18.3" x 16.7") | | | | | | | | | | | | |
| NET WEIGHT | 28kg (61.6lbs) | | | | | | | | | | | | |
| COMPONENTS | 1 x 15" (381mm) LF driver, 1 x 1" (25mm) HF compression driver | | | | | | | | | | | | |
| FREQUENCY RESPONSE¹ | 45Hz - 20kHz ±4dB | | | | | | | | | | | | |
| NOMINAL DISPERSION² | 70°H x 40°V @ -6dB points | | | | | | | | | | | | |
| POWER HANDLING | 300 watts r.m.s., 600 watts program Recommended amplifier power 600 watts @ 8 ohms | | | | | | | | | | | | |
| SENSITIVITY³ | 99dB, 1 watt @ 1 metre | | | | | | | | | | | | |
| MAXIMUM SPL | 124dB continuous ⁴ , 130dB peak ⁵ | | | | | | | | | | | | |
| CROSSOVER | Internal passive network at 1.8kHz; 24dB/octave high-pass, 12dB/octave low-pass | | | | | | | | | | | | |
| NOMINAL IMPEDANCE | 8 ohms | | | | | | | | | | | | |
| CONSTRUCTION | 15mm (5/8") birch plywood enclosure. Finished in TurboBlue™ semi-matt textured paint (optional black). Two recessed carrying handles. Integral pole mount socket | | | | | | | | | | | | |
| GRILLE | Heavy duty powder coated perforated steel mesh | | | | | | | | | | | | |
| CONNECTORS | (2) Neutrik Speakon NL4MP, wired pin1+: positive, pin 1-: negative, pins 2+ and 2- N/C | | | | | | | | | | | | |
| FLYING HARDWARE | (3) M10 internal threaded rigging points | | | | | | | | | | | | |
| SPARES AND ACCESSORIES | <table border="0"> <tr> <td>LS-1521</td> <td>15" (381mm) LF loudspeaker</td> </tr> <tr> <td>RC-1521</td> <td>Recone kit for LS-1521</td> </tr> <tr> <td>CD-111</td> <td>1" (25mm) HF compression driver</td> </tr> <tr> <td>RD-111</td> <td>Replacement diaphragm for CD-111</td> </tr> <tr> <td>MG-151/X</td> <td>Metal grille</td> </tr> <tr> <td>PX-151/X</td> <td>Passive crossover network</td> </tr> </table> | LS-1521 | 15" (381mm) LF loudspeaker | RC-1521 | Recone kit for LS-1521 | CD-111 | 1" (25mm) HF compression driver | RD-111 | Replacement diaphragm for CD-111 | MG-151/X | Metal grille | PX-151/X | Passive crossover network |
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| MG-151/X | Metal grille | | | | | | | | | | | | |
| PX-151/X | Passive crossover network | | | | | | | | | | | | |

Notes

¹ Measured on axis

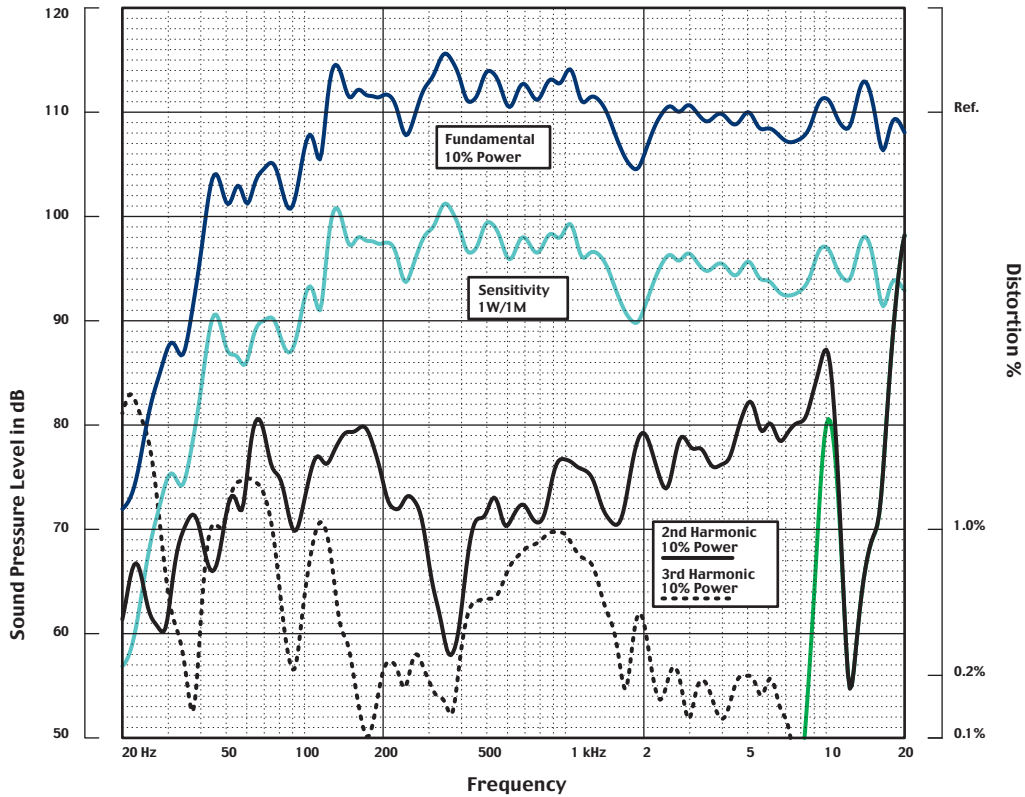
² Average over stated bandwidth

³ Average over stated bandwidth

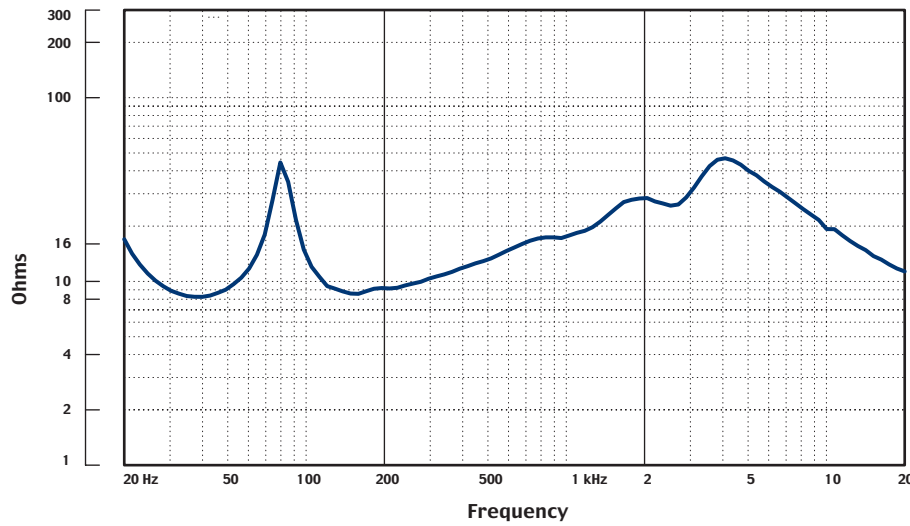
⁴ Unweighted diode-clipped pink noise. Measured in a half space environment

⁵ Verified by subjective listening tests of familiar program material, before the onset of perceived signal degradation

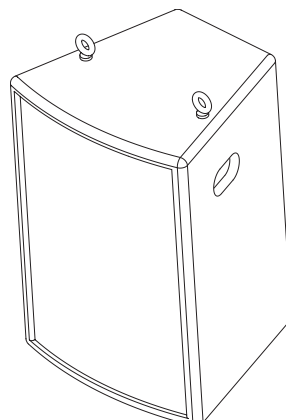
FREQUENCY RESPONSE



IMPEDANCE

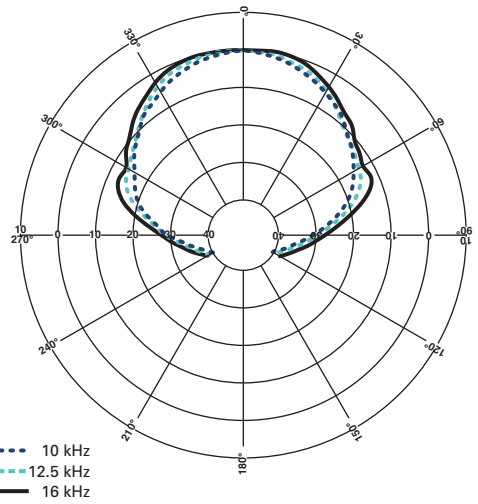
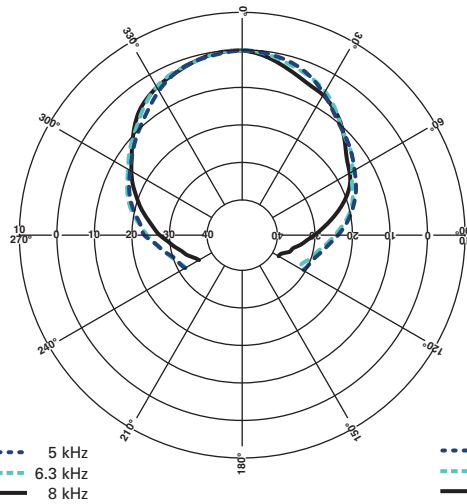
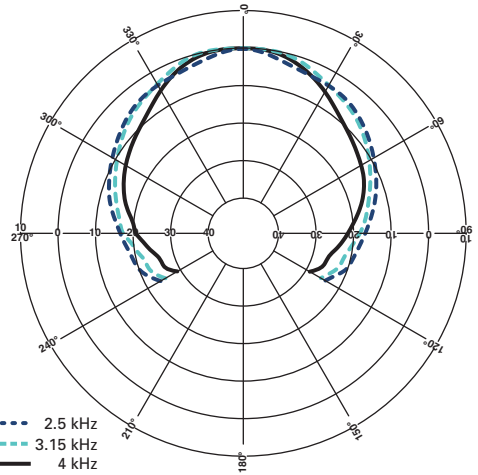
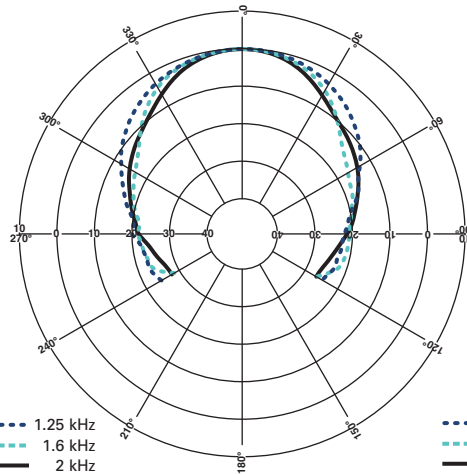
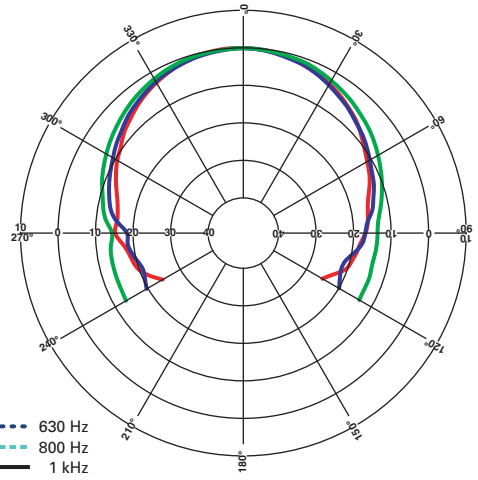
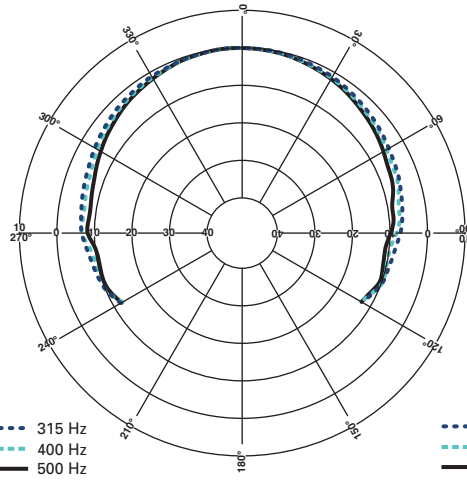


The cabinet is fitted with three internal M10 threaded rigging points on the top and rear which enable single enclosures to be permanently installed using M10 shoulder eyebolts with a minimum thread length of 20mm. Downward inclination of the enclosure is achieved by adjustment of the rear rigging point.

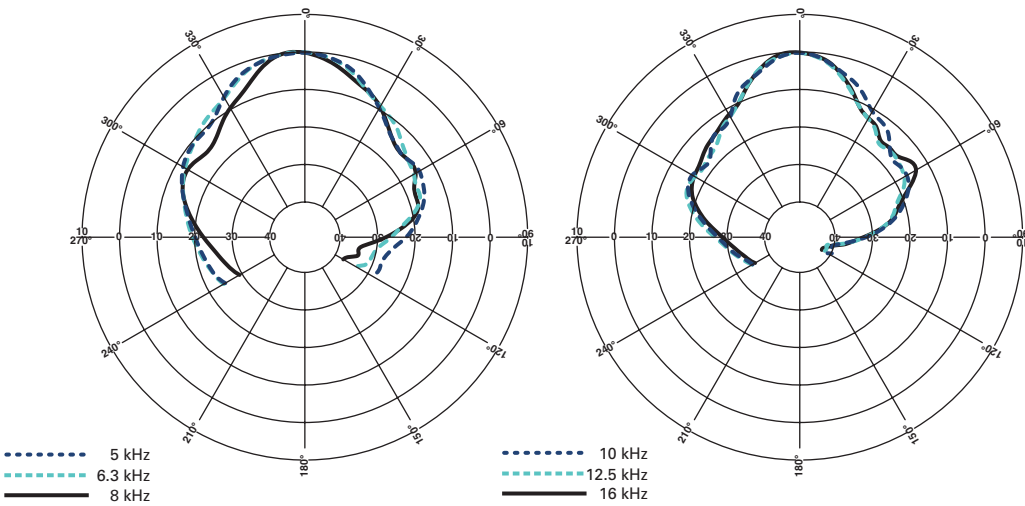
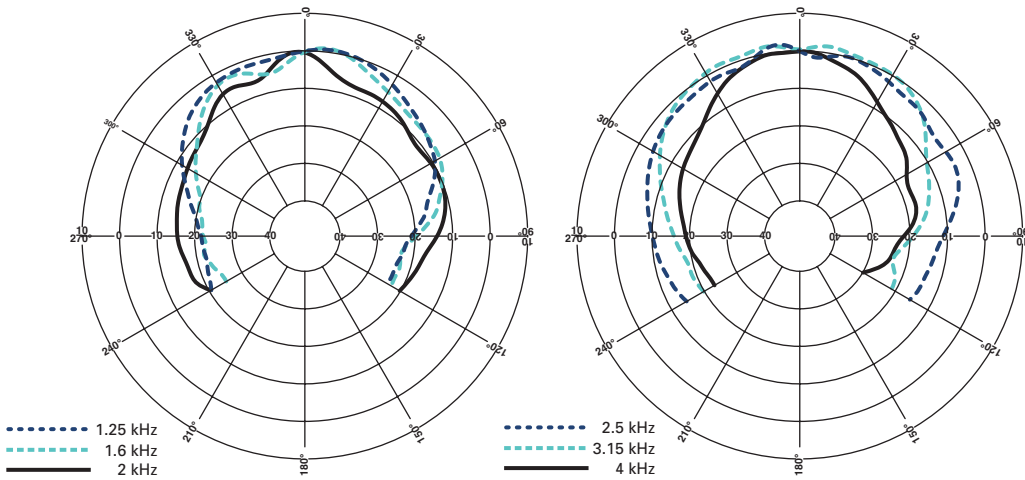
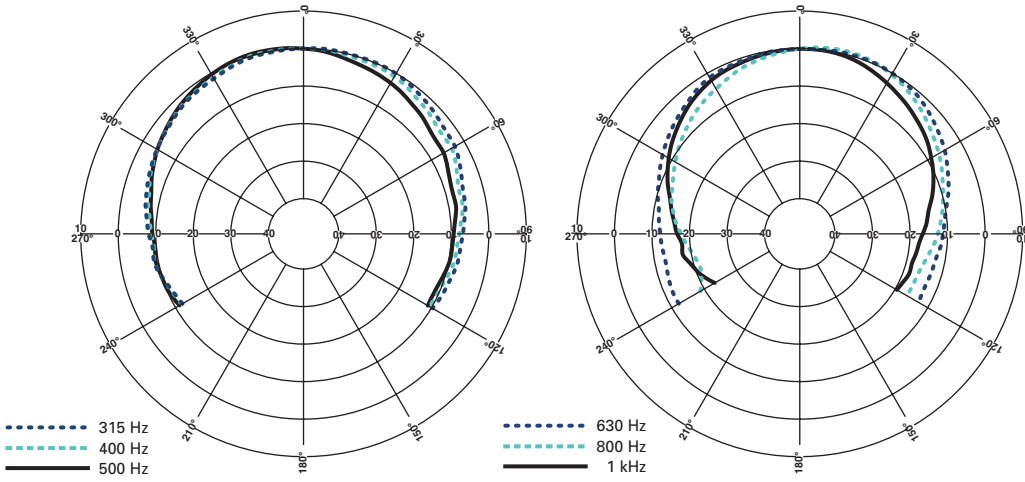


INSTALLATION HARDWARE

**HORIZONTAL THIRD
OCTAVE POLARS**



**VERTICAL THIRD
OCTAVE POLARS**



**ARCHITECTURAL
& ENGINEER'S
SPECIFICATIONS**

The speaker shall be of the two-way passive type consisting of one 15" (381mm) low frequency driver and one 1" (25mm) high frequency driver. Performance specifications of a typical production unit shall meet or exceed the following: frequency response, measured with swept sine wave input, shall be flat within $\pm 4\text{dB}$ from 45Hz - 20kHz. Nominal dispersion, at -4dB points, shall average 70°H x 40°V. Nominal impedance shall be 8 ohms. Power handling shall be 300 watts r.m.s., 600 watts program. Sensitivity, measured with 1 watt input at 1 metre distance on axis, mean averaged over stated bandwidth, shall be 99dB. Maximum SPL (peak) measured with music program at stated amplifier input shall be 130dB. Dimensions: 652mmH x 465mmW x 423mmD (25.7"H x 18.3"W x 16.7"D). Weight: 28kg (61.6lbs). The loudspeaker system shall be the Turbosound TXD-151. No other loudspeaker shall be acceptable unless submitted data from an independent test laboratory verify that the above combined performance / size specifications are equalled or exceeded.

DIMENSIONS

