

TX8 • TX Series PA System



- 2 x 15" LF, 8" MF, 2" HF
- 3-Way, Tri-Amped
- High Sensitivity, High SPL
- Dual Speakon™ Inputs
- Processor Controlled
- Spatter-Paint Finish
- 13-Ply Baltic Birch Construction
- ATM Flyware™ Equipped
- Comprehensive Warranty



TX8 - TX Series PA System

Cabinet

Dynamic yet efficient, the TX8 is a category leader. This seamless three-way enclosure is capable of extremely high output levels with ultra-low distortion. The large motor 2" high frequency driver utilizes a titanium diaphragm and is mounted on a custom 60°x40° wave-guide horn that starts directly at the driver phasing plug, thus eliminating horn throat 'squeeze'. The proprietary ultra-low mass 8" midrange driver and wave-guide horn combination provide loud, crystal clear reproduction throughout the entire midband. Two low cone mass B&C 15" woofers are mounted in a quasi-horn loaded configuration resulting in astonishing low band efficiency. The small footprint Baltic birch enclosure uses high rigidity bracing and incorporates an extremely flexible top and bottom ATM Fly-Ware™ flytrack and internal bumper system for accurate yet cost effective 'flying'.

Engineering

Our engineering team has a great deal of experience with the design of cabinets and processors. Working as a closely knit team, the engineers designed the TX series as a system, not merely as separate components that can be used together. This ensures that the cabinets and processors function synergistically for the best possible sound, convenience and value.

Processor

The TX8P processors are specifically designed for use with TX8 cabinets and perform a variety of functions including crossover, equalization, speaker-protection and hum-rejection. The units process the audio signal before it reaches the power amplifier, with separate amp channels provided for each band within the cabinet. The cabinets themselves *do* contain internal crossovers, however, their function is primarily to provide protection in case of miswiring. To ensure optimum settings and ease of use, processor crossover points are fixed at factory-optimized levels, however, gain controls are provided to allow adjustments of +/-3dB on the HF, MF & LF and +/-6dB on the Subwoofer.

The TX processors are self-calibrating (a simple 30 second procedure). Automatic amplifier gain detection allows for effective band level-setting without the use of specialized equipment. The processor protects

the speakers by activating compressors if necessary. Additionally it provides hum rejection through the use of balanced inputs and via a remote reference feature of the output stage when it is used with unbalanced amplifiers.

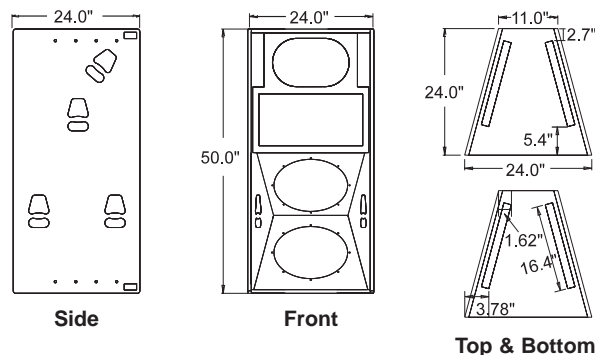
The TX8P processor configuration provides stereo four-way mixes with individual subwoofer outputs in a single rack space. Controls include trim pots and calibrate & mute switches while function-overview is provided by power, clip, limit, calibrate, mode and mute LEDs, all incorporated into a compact, practical package.

Flyware

The TX8 incorporates a specially developed internal brace module that provides the quickest, most flexible and most accurate method of configuring large scale loudspeaker arrays available. The track-based AMTS system can be arranged as either a vertically stacked track system or a rigid, horizontally arranged modular system through the use of connecting bars that are attached with quick release pin fasteners. In addition, both formats can be used within the same loudspeaker cluster in order to optimize set-up time without compromising loudspeaker array acoustical characteristics.



ATM Flyware™



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SPECIFICATIONS - TX8

- System Type:** 3-Way, Trapezoid Cabinet
- Drivers:** HF: 2" B&C DE750
MF: 8" Custom Audax
LF: 2 x 15" Custom B&C
- PGM Power / Imp:** HF: 120 W / 8Ω
MF: 100 W / 8Ω
LF: 800 W / 4Ω (400W x 2 / 8Ω per driver)
- Sensitivity (1W @1M):** HF: 110 dB
MF: 109 dB
LF: 104 dB
- Maximum Output:** ~ 134 dB
- Overall Freq. Response:** 60 – 19,000 Hz
- Coverage Angle:** 60° Horizontal
40° Vertical
- Inputs:** 1 – Speakon™ 8
- Parallel Outputs:** 1 – Speakon™ 8
1 – Speakon™ 4 (sub out)
- Protection:** Electronic Limiting
(excursion & thermal with TX processor)
Passive Hi-Pass Filter on HF & MF
- Construction:** 13-Ply, 13mm Baltic Birch Plywood
Screw Fastened, Braced Butt Joints
- Finish:** Black Spatter Paint
Metal Speaker Grille
- Rigging:** ATM Flyware™ AMTS track / internal bumper (top and bottom)
- Dimensions:** (H x W x D x Back Width)
50" x 23.9" x 23.9" x 11.3"
- Exterior Volume:** 11.14 ft³ / 0.315 m³
- Weight:** 216 lbs / 98 kg
- Amplifier Requirements:** HF ~ 200 W into 8Ω
MF ~ 200 W into 8Ω
LF ~ 1200 W into 4Ω
- Processor:** TX8P
- Controls (Switches):** Calibrate, Mute, Mode
- Controls (Pots):** Trims
- LED Indicators:** Power, Clip, Limit, Mute, Mode
- Type:** Stereo, 3 or 4 Way
- Inputs:** XLR Female (x 2), 20 KΩ
- Max Input:** +18 dBu, 6 Vrms
- Outputs:** XLR Male (x 8), 600 Ω min.
- Max Output Level:** +12 dBu, 3 Vrms
- Sense Inputs:** Speakon™ 4 (x 4), Stereo 1 Band / Connector
- Trim Controls:** +/- 3 dB for HF, MF & LF
+/- 6 dB for Subwoofer
- Crossover Points:** ~300 Hz and ~1600 Hz (in 3 way mode)
~125 Hz, ~300 Hz and ~1600 Hz (in 4 way mode)



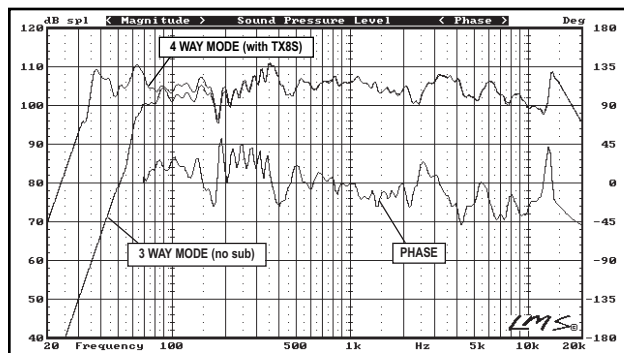
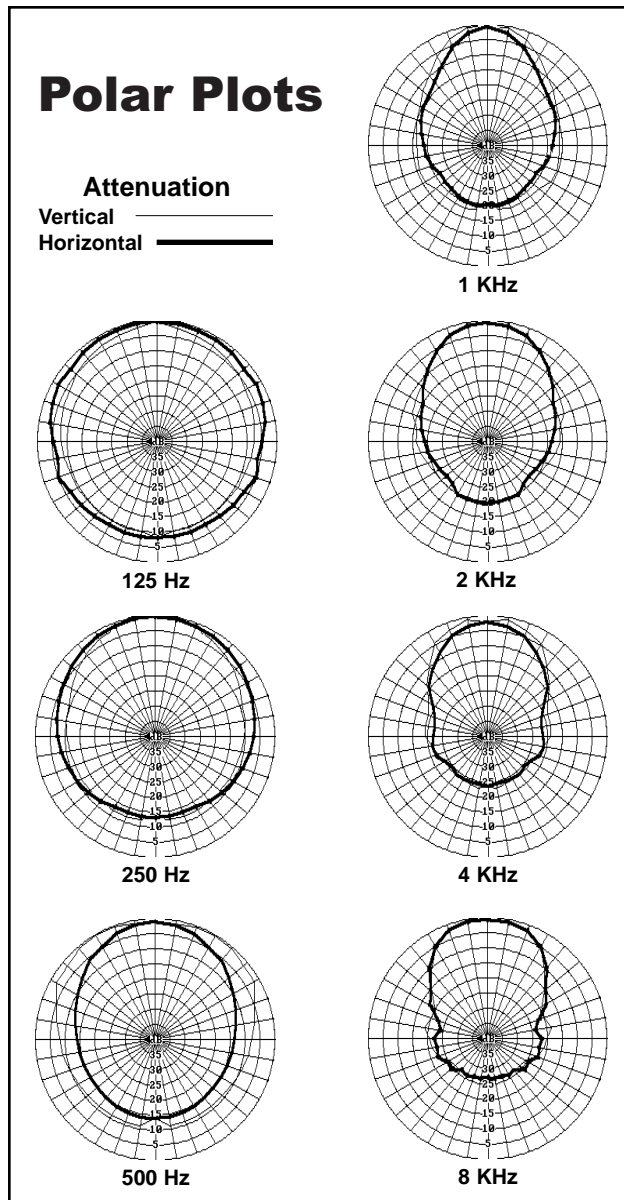
Rear Input Panel



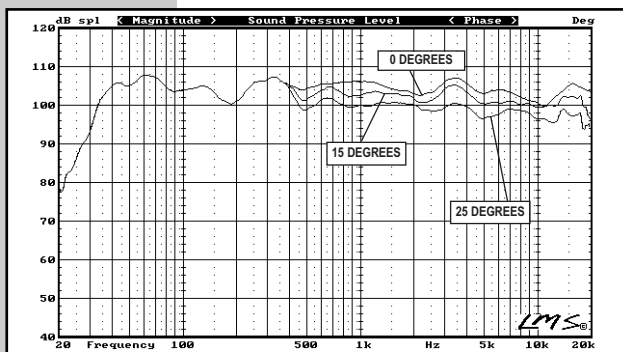
TX8P - Back



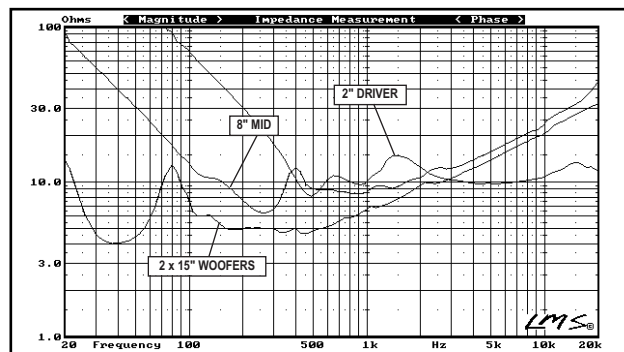
TX8P - Front



Frequency Response



Horizontal Off-Axis Frequency Response



Impedance