

PRODUCT SPECIFICATION

T8



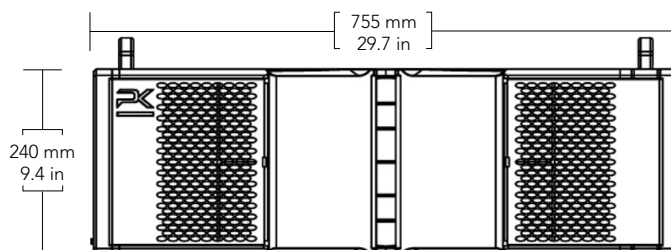
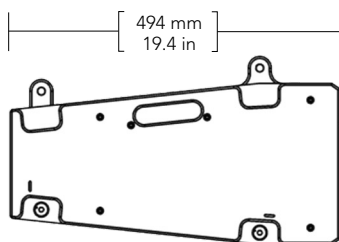
T8 is the compact member of the industry's first robotically controlled line source family. Featuring PK Sound's patented multi-axis robotics, T8's stunning output – with peak SPLs reaching 143.5 dB – is precisely controlled down to 400 Hz in both the vertical and horizontal planes, offering system operators maximum flexibility in making coverage adjustments after the array is flown.

Integrated inclinometers and network-based Auto-Array via PK .dynamics software enable each module to recognize its position and angle within the system, enhancing the speed, safety, and accuracy of any deployment. Robotic control, onboard DSP, and AVB end points are routed through the world's first implementation of Neutrik's DR Series of IP65-rated connectors for maximum stability.

A pair of vented 8" Tetracoil transducers with custom phase plugs manage low-frequency response while a dual ring radiator coaxial compression driver handles mid and high frequencies. This three-way, high-directivity design offers detailed and variable pattern control of frequencies from 20 kHz down to 400 Hz, resulting in significant SPL reductions between on-axis and off-axis coverage points. A two-channel VE15 1,400 W Class D amplifier maximizes headroom while maintaining crystal clear audio and exceptional output.

T8's waveguide is robotically manipulated to offer variable symmetric and asymmetric horizontal dispersion from 60°-120° so users can shape an array's radial directivity remotely and in real time. This enables the configuration of tapered arrays, precisely tailored to meet the unique coverage requirements of any venue or event.

Flown straight, the array's directivity is then configured remotely using industrial linear actuators. Vertical angles are variable with 0.1° accuracy. Finally, a combination of FIR and IIR filters is applied to ensure smooth frequency response throughout the listening area.



Output Capability

Frequency Response.....50 Hz-20 kHz
Peak SPL.....143.5 dB

Acoustic Properties

Vertical Adjustment.....0°-12° Robotic Directivity
Vertical Resolution.....0.1° Increments
Horizontal Directivity.....60°-120° Robotic Directivity
Horizontal Resolution.....5° Symmetric & Asymmetric
Variable Pattern Control....400 Hz-20 kHz

Robotic Actuators

Horizontal Thrust.....750 N
Vertical Thrust.....2,500 N
Duty Cycle.....80,000 Actuations (109 years)

Transducers

Low-Frequency.....2 x 8" Neodymium Tetracoil
Mid & High-Frequency.....1 x 3" / 2" Coaxial Dual Ring Radiator
3-Way High-Directivity Design

Amplification

Amplifier.....VE15 2-Channel Class D
Amplifier Power.....1,400 W
Operating Voltage.....Auto-Switching 100-240 V, 50/60 Hz
Power Consumption.....220 W
Network.....AES70/Proprietary

Input/Output Connections

Input Selection.....Analog/AES – IP65
Audio/Network.....Balanced XLR/etherCON – IP65
Power.....powerCON TRUE1 – IP65

Physical Properties

Weight.....31.4 kg/69.2 lb.
(W x H x D).....755 x 240 x 494 mm
29.7 x 9.4 x 19.4 in.
Max Line Length.....24 Modules
Environmental.....IP54
Module Construction.....Void-Free, High-Grade Baltic Birch
Rigging Construction.....6061-T6 Aluminum
External Coating.....EXL Polyurea
Grill.....Powder Coated Aluminum
Local Control.....2.4 in. TFT Touch Screen