

PRODUCT SPECIFICATION

T10



T10 is a member of the industry's first robotically controlled line source family. Stunning SPL and clarity can be precisely controlled in both the vertical and horizontal planes, offering system operators maximum flexibility in making coverage adjustments after the array is flown. Onboard IR sensors and inclinometers enable each module to recognize its position and angle within the array, improving accuracy, efficiency of deployment, and safety.

Dual bandpass-loaded 10" transducers manage low-frequency response. The mid-frequency band is supported by two 6.5" midrange transducers affixed to the patented Coherent Midrange Integrator (CMI). A dual-diaphragm high-frequency transducer, coupled directly to an integrated planar waveguide, significantly reduces distortion across the high-frequency band. A 3,000 W Class D amplifier maximizes headroom while maintaining crystal clear audio and exceptional output.

The CMI waveguide seamlessly combines mid and high frequencies, working in tandem with precisely spaced low-frequency apertures for smooth and controlled directivity. It allows for variable adjustability from 50°-120° both symmetrically and asymmetrically so that system designers and technicians can remotely shape the radial directivity of the array relative to the coverage requirements of any event or venue.

Flown straight, the array's directivity is then configured remotely using industrial linear actuators with a duty cycle of up to 109 years. Horizontal angles can be set to one of 25 variable positions allowing for mechanical optimization. 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...40 Hz-20 kHz
 50° Horizontal.....144.1 dB*
 120° Horizontal.....141.9 dB*

Acoustic Properties

Horizontal Directivity....50°-120° Robotic Directivity
 Horizontal Resolution...10° Symmetric & Asymmetric
 Vertical Adjustment..... 0°-12° Robotic Directivity
 Vertical Resolution.....0.1° Increments

Robotic Actuators

Horizontal Thrust.....750 N
 Vertical Thrust.....2,500 N
 IP Rating.....IP69K (static), IP66 (dynamic)
 Duty Cycle.....80,000 Actuations (109 years)

Transducers

Low-Frequency.....2 x 10" Bandpass Loaded
 Mid-Frequency.....2 x 6.5" CMI Loaded
 High-Frequency.....1 x 4" Dual Diaphragm Planar Wave

Amplification

Amplifier..... 3 Channel Class D
 Amplifier Power..... 3,000 W
 Operating Voltage..... Auto-Switching 100-240 V, 50/60 Hz
 Power Consumption...700 W
 Network..... Proprietary

Input/Output Connections

Input Selection..... Analog/AES
 Audio/Network..... Multipin Amphenol – IP65
 Power..... powerCON TRUE1 – IP65

Physical Properties

Weight.....47.6 kg/105 lb
 (W x H x D).....980 x 250 x 561 mm
 38.58 x 9.84 x 22.09 in
 Max Line Length.....24 Modules
 Environmental.....IP42 (front), IP43 (rear)
 Multipin Connector..... IP65
 Module Construction...Void-Free, High-Grade Baltic Birch
 Rigging Construction...6061-T6 Aluminum
 External Coating.....EXL Polyurea
 Grill..... Powder Coated Aluminum

* Maximum SPL with Pink Noise Crest Factor 4 at 1 m (with limiters & DSP active)

