

PRODUCT SPECIFICATION

Trinity Install



Trinity Install brings the exceptional voicing of the Trinity Series to performance installations and live event spaces. Stunning SPL and clarity can be precisely controlled with variable coverage in both the vertical and horizontal planes. Intelligibility is dramatically improved by directing the system's energy away from reflective surfaces as coverage is adjusted to meet the architectural design of the venue.

Vertical angles are set during installation using a fixed rigging system, while horizontal angles are locked into one of 22 symmetric or asymmetric configurations throughout a line source. A combination of FIR and IIR filters are applied to ensure smooth frequency response in the listening area.

Horn-loaded 12" transducers manage low-frequency response. The mid-frequency band is supported by four 6.5" midrange transducers affixed to the patented Coherent Midrange Integrator (CMI). Two dual-diaphragm high-frequency transducers, coupled directly to an integrated planar waveguide, significantly reduce distortion across the high-frequency band. A 6,000 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 60-120° both symmetrically and asymmetrically so that designers can vary the radial directivity of individual modules within the array to enhance overall system performance.

Output Capability

Frequency Response....40 Hz-20 kHz
Peak SPL.....151.4 dB

Acoustic Properties

Horizontal Directivity....60°-120° Fixed Variable Directivity
Horizontal Resolution...10° Symmetric & Asymmetric
Vertical Adjustment.....0°-5.5° Fixed Rigging System
Vertical Resolution.....1° Increments

Transducers

Low-Frequency.....2 x 12" Neodymium Horn Loaded
Mid-Frequency.....4 x 6.5" on Coherent Midrange Integrator Waveguide

High-Frequency /

Very High-Frequency...2 x 4" Dual Diaphragm Planar Wave

Amplification

Amplifier..... 4 Channel Class D
Amplifier Power..... 6,000 W
Operating Voltage..... Auto-Switching 100-240 V, 50-60 Hz
Power Consumption... 660 W
Network..... UDP over Ethernet

Input/Output Connections

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

Physical Properties

Weight..... 90 kg/198 lb.
(W x H x D)..... 1,394 x 355 x 584 mm
54.88 x 13.98 x 22.99 in
Max Line Length.....16 Modules
Environmental.....IP43/IP42
Rain Protection.....Weather Resistant Amplifier Plate & IP65 Connectors
Module Construction...Void Free, High Grade Baltic Birch
Rigging Construction...6061-T6 Aluminum
External Coating.....EXL Polyurea
Grill..... Powder Coated Aluminum

