

LINE ARRAY Series

Compact 3Way active line array system

Audio-Performance D12

The D12 compact Line Source element is a high powered, full range, long-throw system designed for medium to large scale sound reinforcement applications.

The D12 loudspeaker enclosure is based on a 2-way active design. It comprises 2 input sections: 1x LF at a nominal impedance of 8 ohms, and 1x HF at a nominal impedance of 8 ohms. It features two 12" speakers all direct-radiating neodymium speakers mounted in a 6 order bass-reflex enclosure, and two 1.4" exit, 3" neodymium diaphragm compression drivers coupled to individual patented Audio Performance wave guides with adjustable directivity flaps.

The transducers are implemented in a K-shape configuration. The cabinet is made of machined first grade 12 & 15mm Baltic birch plywood to ensure maximum acoustical and mechanical integrity while reducing weight to the minimum.

A four-point rigging system is integrated into the cabinet.

The D12 enclosure operates over the nominal frequency range of 35 Hz to 20 kHz +/- 3dB and delivers a maximum peak SPL of 147dB.

Its Low Frequency responses can be reinforced with the dedicated SUB800 Subwoofer extension and its bandwidth can be extended down to 25 Hz with the SUB1000 subwoofer. In the horizontal plane, the directivity is adjustable down to 300 Hz, with symmetric settings (60°, 90° and 120°) and two asymmetric settings (as 75°/105° or 105°/75°).

The D12 rigging system allows vertical assembly of enclosures with various inter-element angles (up to 10°), constituting a line array with variable curvature. The combination of the coplanar symmetry and the Audio Performance waveguide in the HF region ensure a perfect acoustic coupling between the elements of an array, thus creating a true line source.

Perfect line source provides a smooth tonal response and a coverage that is free of secondary lobes over the entire frequency range.

The D12 is a bi-amplified line source designed to operate with the Audio Performance AP44M20 DSP amplifier with factory presets which ensure linearization, protection, and optimization of the loudspeaker system.

IDEAL FOR

Large Scale
sound
Reinforcement

Concert halls
Clubs

Stadiums
Theatres



***No compromise between size and sound,
It's just Compact and Powerful!!!***

Special Features

Horizontal Directivity
Adjustable
from:
Symetric: 60°, 90°, 120°
Asymetric: 75°, 105°

Symetrical Design

High power

Compact Size

LINE ARRAY Series

D12 Specifications

ACOUSTICAL

Frequency response (1)	35Hz - 20'000Hz
Phase response	350Hz - 10KHz + / - 45°
Maximum peak SPL (2)	147dB
Coverage	Horizontal: adjustable from 50° to 110° / 15° step Symetric or Asymmetric Vertical: Varies with array lenght and array configuration
Crossover (3)	980Hz

TRANSDUCERS

Low frequency	2 x 12" long excursion, low distortion ND cone driver
Nominal impedance	2 x 16 ohms
Power Handling	2 x 1'200W RMS (AES) (4)
High frequency	2 x 1,4" exit, 3" diaphragm ND compression driver, loaded with adjustable horizontal horn
Nominal impedance	2x 16 ohms
Power Handling	2x 400W RMS (AES) (4)
Connectors	2 x Neutrik Speakon NL4MP (wired in parallel) 1+/- = Low 2+/- = High

MECHANICAL

Cabinet size (WxHxD)	877 x 356 x 452mm
Cabinet finish	12 / 15 mm plywood, black epoxy painted, other colours on request
Rigging	Patent pending four Point Rigging system
Protective grill	Removable perforated 1,5mm steel, foam cover
Weight	59Kg



(1) Frequency response: +/- 3dB, measured at 3 meters, on axis, half-space conditions - MLSSA 1/3 octave

(2) Max peak SPL: Measured with Pink noise referred to 1 meter

(3) Crossover: Acoustical crossover frequency - at these frequency, transducers produce equal sound pressure level

(4) AES: Power handling is measured under AES standard conditions

(5) Power AMPS: Amplifier RMS output power per channel into 2 ohms, both channel driven

In the interest of improving the equipment, AUDIO-PERFORMANCE reserves the right to alter the specification without prior notice.

AP/PAC/October 2019