

LINE ARRAY Series

Compact 2Way self-powered line array system

Audio-Performance DLA10-amp

The DLA10-amp Compact Self-Powered Line Array Loudspeaker is a Light, Simple and Versatile product designed to deliver Great Sound into medium and large venues.

The two way full range Loudspeaker consist of 2 x 10" low frequency cone driver with a in-house designed phase plug that optimises the vertical coverage and avoid the need of mid-range drivers. One 1.4" exit, 3" voice coil compression driver mounted in a complex Audio Performance Wave Guide, loaded with an adjustable horizontal constant directivity horn, gives the user to adapt the horizontal directivity by step of 15° from 60° to 120° without removing the front grill.

The specific conception enables the DLA10 to reach 55 Hz without the need of a subwoofer and to deliver a flat frequency response up to 20 kHz (+/- 3dB). The DLA10-amp built-in electronics package features a new lightweight, two channel class D audio power amplifier (D2SP) designed specifically for Self-Powered products.

The D2SP amplifier module is a sophisticated switch mode power supply, class-D amplifier design capable of delivering more than 2 x 1'250W RMS into 2 Ohms and adding only 3Kg to the weight of the cabinet.

It incorporates a complete networked 96KHz digital signal processing (DSP) providing loudspeaker specific filtering, EQ, delays and protection functions.

Sophisticated amplifier protection systems continuously monitor all aspects of performance to ensure that the amplifier and associated drivers are always working within their safe operating areas.

With an extraordinary average efficiency of 90%, the system is practically service free.

PodWare PC application provides real time control and monitoring functions to either single units or whole networks of Audio-Performance self-powered loudspeakers through Ethernet CAT5 cable. The simplicity of the unique patent pending Three Points Rigging system offers easy stacking as well as easy flying and fits in any situation. Angles extension: 0° to 8° for each DLA10 (Angle Step: 0.5°). Ease Focus 3.0 data is provided by Audio Performance.

The DLA10 is perfectly suitable for touring and fixed applications.

No compromise between size and sound, It's just Small and Powerfull!!



IDEAL FOR

Large Scale
sound
Reinforcement

Concert halls
Clubs

Stadiums
Theatres

Special Features

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

Symetrical Design

High power

Compact Size

LINE ARRAY Series

DLA10-amp Specifications

ACOUSTICAL

Frequency response (1)..... 55Hz - 20'000Hz, + / - 3db
 Maximum peak SPL (2) 141dB
 Coverage Horizontal: adjustable from 60° to 120° / 15° step
 Symetric or Asymetric

TRANSDUCERS

Low frequency 2 x 10" long excursion, low distortion ND cone driver
 High frequency 1 x 1,4" exit, 3" diaphragm ND compression driver,
 loaded with patented waveguide

AMPLIFIERS

Output power (low 1) (5) 1'250W RMS
 Output power (low 2) (5)..... 1'250W RMS
 THD, DIM, SMPTE..... <0,05%

AUDIO INPUT

Type..... Analog Differential balanced input circuit
 Connectors..... Female XLR; Male XLR loop
 Nominal impedance..... 10K Ohm
 XLR wiring..... 1: GND, 2: positive, 3: negative

DSP

Sampling rate 96 KHz
 Basic delay 0.76 ms
 Dynamic range 115 dB

NETWORK

Type Ethernet
 Connector RJ45 female, RJ45 loop

AC power

Connectors..... Female PowerCon, in; Male PowerCon loop
 Input voltage 115V - 230V nominal +/- 10%

MECHANICAL DATA

Cabinet size (WxHxD) 730 x 270 x 610mm
 Cabinet finish 15 mm plywood, black epoxy painted, other colours
 on request
 Rigging Patent pending Three Point Rigging system
 Protective grill Removable perforated 1,6mm steel, foam cover
 Weight 38Kg

ACCESSORIES

EaseFocus 3.0
 SUB800 Subwoofer
 Bumper



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

(2) Max peak SPL: Measured with music 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