

TOURING SELF POWERED Series

Self powered 2Way DSP controlled loudspeaker system
PC remote controlled with networking

Audio-Performance SD2-amp

The SD-2 amp loudspeaker is a powered version of the SD-2 loudspeaker system that combines exceptionally accurate reproduction with high SPL output in a very compact enclosure.

The SD-2 amp uses a proprietary 12 inch cone low frequency driver mounted in a vented enclosure with carrying handles, four aircraft pan fittings (two on top, two on bottom) and one 35mm tube stand adaptor. The high frequency unit is a 3 inch diaphragm high frequency compression driver couple to a in house designed 90°x 40°horn.

A unique Active Speaker Output, (ASO) allows the user to connect a slave unit (SD-2) to the SD-2 amp.

The SD2-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.

IDEAL FOR

Theatre

Motion Picture

Radio, TV

Clubs, Discos

Side Fill in large scale
music reinforcement

Special Features

High power

Self powered

Monitor & FOH presets

Ethernet Networking

PC remote controlled



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SD2-amp Specifications

ACOUSTICAL

Frequency response (1)	55Hz - 20KHz
Phase response	350Hz - 10Khz + / - 45°
Maximum peak SPL (2)	133dB
Coverage	H 90° x V 40°
Crossover (3)	1'250Hz

TRANSDUCERS DESCRIPTION

Low frequency	1 x 12 inch, ferrofluid cooled, long excursion
High frequency	1 x 3 inch diaphragm, ferrofluid cooled compression driver, loaded with asymmetrical horn

AMPLIFIERS

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

AUDIO INPUT

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

DSP

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

NETWORK

Type	Ethernet or Ethersound
Connector	RJ45 female, RJ45 loop

AC power

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

MECHANICAL DATA

Enclosure:	18mm plywood
Finish	Black epoxy painted
Dimensions (W x H x D)	400 x 600 x 365mm
Grill	Removable perforated 1,6mm steel, foam cover
Weight	32Kg
Rigging	Aircraft Rigging points, top and bottom

