

MULTI-PURPOSE Series

Self-Powered compact, high power subwoofer
PC remote controlled with Networking

Audio-Performance SUB1-amp

The SUB1 amp is a compact, self powered subwoofer designed to extend the frequency range and power bandwidth of Audio Performance full-range loudspeaker systems. With a cut-off frequency of 35Hz, the SUB1 amp is made for applications where the reproduction of sub frequencies is of major importance (music, sound effects). It consists of one long excursion 15-inch cone driver mounted in a heavily braced vented enclosure.

The SUB1-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 1 x 2'500W RMS (bridged mode) into 4

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

Touring
Concerthall
Discotheques
Sound effects

The SUB1-amp subwoofer system is ideal for any professional application requiring accurate low frequency reinforcement at high sound pressure levels

Special Features

High power
Self powered

45Hz cut-off frequency

Ethernet
Networking
PC remote controlled



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SUB1-amp Specifications

ACOUSTICAL

Frequency response (1)..... 35Hz - 120KHz
Maximum peak SPL (2) 131dB

TRANSDUCER

Low frequency 1 x 15 inch, ND ferrofluid cooled, long excursion cone driver

AMPLIFIERS

Output power (bridge) (5)..... 2'500W (EIAJ-1KHz, 1% THD)
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
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

Enclosure: 18 & 24mm plywood
Finish Black epoxy painted
Dimensions (W x H x D) 536 x 440 x 610mm
Grill Removable perforated 1,6mm steel, foam cover
Rigging M20 connecting plate
Weight 35Kg

