

TOURING SELF-POWERED Series

Self-Powered 2 way DSP controlled Loudspeaker system
PC remote controlled with networking

Audio-Performance RM12-amp

The RM12-amp loudspeaker is a powered system that combines exceptionally accurate reproduction with high SPL output in a very compact multi-purpose enclosure available as mirror symmetrical left-right, to form pairs.

The RM12-amp uses a proprietary 12 inch cone low frequency driver mounted in a vented enclosure with carrying handles. The high frequency unit is a 3 inch diaphragm high frequency compression driver couple to a in house designed 40°/90°x 60° asymmetrical horn.

A unique Active Speaker Output, ASO, allows the user to connect a slave unit called RM12-S in parallel to the RM12-amp.

The RM12-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

Stage Monitoring
for
Musical Instruments
Singing
or
Speech

Side Fill or FOH

Special Features

High power
Self powered

Monitor & FOH presets

Active Speaker Output
ASO

Ethernet or EtherSound
Networking

PC remote controlled



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Multip RM12-amp Specifications

ACOUSTICAL

Frequency response (1)..... 55Hz - 18KHz
 Phase response 350Hz - 10KHz + / - 45°
 Max. peak SPL (2)..... 136dB
 Coverage Horizontal: 60°
 Vertical: smoothly changing from 90° to 40°

TRANSDUCERS

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 (EIAJ-1KHz, 1% THD)
 Output power (high) (5)..... 1'250W (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

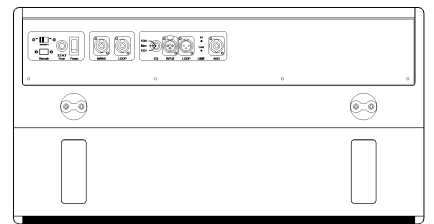
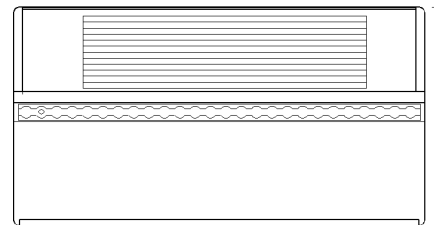
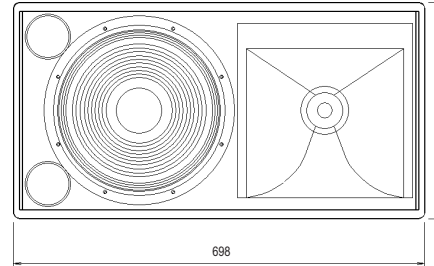
Type Ethernet
 Connector RJ45 female, RJ45 loop

AC power

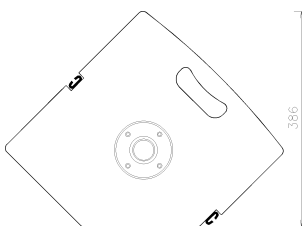
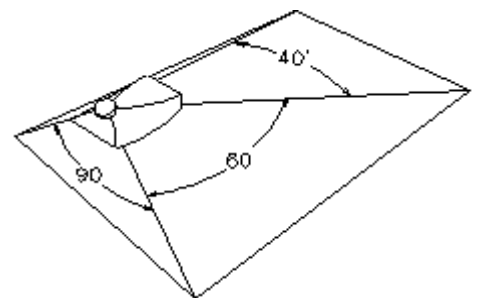
Connectors Female PowerCon, in; Male PowerCon loop
 Input voltage 115V - 250V nominal +/- 10%
 Input voltage selection Automatic

MECHANICAL

Enclosure: 15 & 18mm plywood
 Finish Black epoxy painted
 Dimensions (W x H x D) 698 x 360 x 385mm
 Grill Removable perforated 1,6mm steel, foam cover
 Weight 25Kg
 Rigging Aircraft L-track fittings, sides and back



**The coverage pattern of the asymmetrical horn.
 Vertically 60° and horizontally smoothly changing from 90° to 40°**



Low Profil Stage Monitor