

## Product Description

# MX15-amp Multi Functionality Coaxial loudspeaker system

Initially designed for multi-purpose applications, the coaxial technology has demonstrated numerous advantages over classic two-way systems which typically suffer from interference around the crossover point, resulting in lobing, uneven frequency and power response.

By superimposing HF and LF acoustic centers, the coaxial design creates a virtual point source with significantly improved radiation characteristics. This is particularly valuable in distributed sound reinforcement applications where most listeners are located off the system axis. As the sound field of coaxial enclosures is stable over the entire frequency spectrum and in all directions, all listeners benefit from an even sonic performance within the enclosure beamwidth.

### Coaxial Technology:

The particular benefits of coaxial technology are related to the radiation characteristics of a point source. The natural studio monitor sound quality and the typ-

ical of coaxial systems is adapted to proximity applications such as stage monitoring, front-fills, under-balcony fills and FOH live monitoring.

All coaxial systems are available as plug-and-play solutions.

The MX15-amp Series deliver a complete sound reinforcement solution to fulfill the highest demands of audio professionals for both the fixed installation and rental production markets. The MX15-amp delivers ultimate sonic performance in a compact and multi-purpose package.

The MX15-amp built-in electronics package features a new lightweight, two channel class D audio power amplifier designed specifically for Self-Powered products. The 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.



## IDEAL FOR

Front of house  
or  
Stage monitor system

Touring  
Concert halls  
Clubs  
Disctheques  
Theatres

## Special Features

Self-Powered

Coaxial design

Point source

High efficiency

Low distortion

## Technical Data

# MX15-amp, Self-Powered loudspeaker system

### ACOUSTICAL

Frequency response (1)..... 50Hz - 20KHz  
Maximum peak SPL (2) ..... 138dB

### TRANSDUCERS

Type ..... Coaxial  
Low frequency driver ..... 1 x 15 inch, ferrofluid cooled, long excursion cone driver  
HF compression driver ..... 2.5 inch pur titanium diaphragm  
Dispersion ..... V 60° x H 40°

### AMPLIFIERS

Output power 1 (5)..... 1'250W (EIAJ-1KHz, 1% THD)  
Output power 2 (5)..... 1'250W (EIAJ-1KHz, 1% THD)  
THD, DIM, SMPTE..... <0,05%  
Outputs ..... SPEAKON NL4MP

### AUDIO INPUTS

Type..... Analog Differential balanced input circuit  
Connectors In / Loop ..... Female XLR, Male XLR  
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

### AC power

Connector ..... PowerCON TRUE1  
Input voltage ..... 110V - 230V nominal +/- 10%  
Input voltage selection ..... Automatic

### MECHANICAL

Enclosure: ..... 12mm plywood  
Finish ..... Black epoxy painted  
Rigging ..... 35mm tube adaptor, 3x M10 Inserts  
Front grill ..... Removable perforated steel with protective foam inside  
Dimensions (W x H x D) ..... 574x430x370mm  
Weight ..... 22Kg



(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