

## MONITOR Series

Self powered 3 way DSP controlled monitor loudspeaker systems  
PC remote controlled with networking

### Audio Performance Monitor SIGNATURE KS-12.0

The Audio Performance SIGNATURE KS-12.0 is a 3 Way active monitor system with performances comparable to much larger systems.

It is a high precision device with excellent efficiency and low distortion which provides very precise stereo imaging.

Consisting of a main enclosure containing a 12" low frequency driver, two 6.5" mid frequency drivers and HF 1" fabric dome tweeters with advanced waveguides.

A second enclosure can also be brought into play containing one 12" low frequency driver.

This design allows sound engineers to create different setups according to their environment.

Neodymium and long excursion are also main features that add to the excellent driver performance.

The KS-12.0 has a built-in electronics package feature which contains a new lightweight, three channel class D audio power amplifier designed specifically for self-powered products.

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

Sophisticated amplifier protection systems which 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.

Net Control 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. In addition, the SIGNATURE KS-12.0 provides input volume control and 8 factory presets including high pass, low and high shelving filters.

## APPLICATIONS:

Main studio monitoring

A/V Post production

Mastering control

Sound effects

Multimedia

O/B vans



## Special Features

High efficiency

Low distortion

Precise stereo imaging

FIR Filtering

Ethernet networking  
PC remote controlled

MONITOR Series

Monitor SIGNATURE KS-12.0 specifications

**ACOUSTICAL**

Frequency response (1) ..... 25-21'000 Hz +3dB  
 Phase response ..... 350Hz -18KHz +-10°  
 Maximum peak SPL (2) ..... 132dB  
 Power amplifiers..... LO: 500W - MID: 500W - HI:150W  
 Crossover frequency(3) ..... 110Hz / 2'500Hz, 24dB per octave

**TRANSDUCERS**

LO section..... 2x 12 inch, Neodymium long excursion, low distortion cone driver  
 MID section..... 2x 6.5 inch, Neodymium long excursion, low distortion cone driver  
 Hi section..... 1 inch dome tweeter, fabric diaphragm loaded with waveguide

**AMPLIFIERS**

Output power (low & mid) (5)..... 2x 500W RMS  
 Output power (high) (5)..... 150W RMS  
 THD, DIM, SMPTE..... <0,05%

**AUDIO INPUTS**

Type..... 1x XLR F for analog/AES input signals  
 Connectors..... 1x XLR M for linking the analog input (Thru)  
 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  
 Connectors..... 2x RJ45 interface for Networking and daisy chaining  
 1x Status LED  
 4x Presets LEDs  
 1x Encoder with push fonction

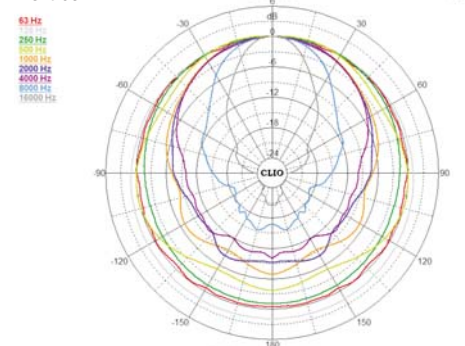
**AC power**

Connector..... PowerCON TRUE1, in  
 Input voltage (EU)..... 115V - 230V nominal +/- 10%  
 Input voltage selection ..... Automatic

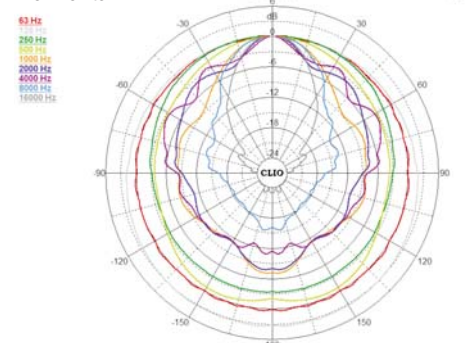
**MECHANICAL**

Enclosure: ..... Vented, 15mm plywood  
 Finish ..... White epoxy painted  
 Dimensions (W x H x D) ..... 1'500 x 350 x 525mm, 5° tapered  
 Weight ..... 35Kg

Vertical



Horizontal



(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