

MONITOR Series

Self powered 2 way bi-amplified low distortion ultra compact nearfield monitor loudspeaker

AUDIO
PERFORMANCE
power to perform

Audio Performance Monitor SIGNATURE KS2.0

The Audio Performance SIGNATURE KS2.0 is a very compact bi-amplified active nearfield monitor system with performances comparable to much larger systems.

The SIGNATURE KS2.0 is a high precision device with excellent efficiency and low distortion providing a very precise stereo imaging.

SIGNATURE KS2.0 contains a 5" neodymium long excursion and low distortion bass cone driver (LF), a 1" fabric dome tweeter (HF) loaded by an advanced waveguide.

The KS2.0 built-in electronics package features a new lightweight, two channel class D audio power amplifier designed specifically for Self-Powered products. that gives an ultra-accurate crossover and amplitude response.

The amplifier module is a sophisticated switch mode power supply, class-D amplifier design capable of delivering more than 350W RMS (250W@8 ohm Low, 100W@8 ohm Hi) and adding only 2kg 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. An optimized FIR filter (Finite Impulse Response) ensures a quasi-perfect transient response and time alignment for an amazing soundstage.

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. NetControl 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 KS2.0 provides input volume control and 8 factory presets including high pass, low and high shelving filters.

DESIGNED FOR

Nearfield Monitoring

A/V Post production

Mastering control

Sound effects

Multimedia

Mobile vans

Special Features

High efficiency

Low distortion

Precise stereo imaging

FIR Filtering



MONITOR Series

Nearfield monitor SINGNATURE KS2.0 specifications

ACOUSTICAL

Frequency response (1) 60-21'000 Hz +3dB
 Phase response 350Hz -18KHz +10°
 Maximum peak SPL (2) 113dB
 Crossover frequency(3) 2'500Hz, LR active, 24dB per octave

TRANSDUCERS

LO section..... 1x 5 inch, Neodymium long excursion, low distortion cone driver
 Hi section..... 1 inch dome tweeter, fabric diaphragm loaded with waveguide

AMPLIFIERS

Output power (low) (5)..... 250W RMS
 Output power (high) (5)..... 100W 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: 6 Liters Vented, 15mm plywood
 Finish White epoxy painted
 Dimensions (W x H x D) 180 x 285 x 240mm, 7.5° tapered
 Weight 5.5Kg

References



(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
 (5) Power AMPS: Amplifier RMS output power per channel into 2 ohms, both channel driven