

# HD-1

High Definition  
Audio Monitor



The Meyer Sound HD-1 is an entirely self-contained, high-definition monitor system that is suitable for a wide variety of critical sound reproduction applications, from near-field monitoring to psychoacoustical research. It is optimized to closely approximate a true point-source radiator, and features a frequency (amplitude) response of 32 Hz to 22 kHz.

The HD-1 comprises an 8-inch cone low-frequency driver and dome tweeter housed in a vented cabinet. An active crossover, optimized pole-zero response correction filters, loudspeaker element protection circuitry and dual power amplifiers are built directly into the enclosure.

Both HD-1 drivers are of a proprietary design and are individually factory-tested for maximum linearity. Their magnet structures employ sophisticated field-cancelling techniques to minimize magnetic leakage, and the cabinets may be placed within two feet of sensitive color video monitors.

The HD-1's power amplifiers utilize complementary power MOSFET output stages; they operate class A at low-to-moderate listening levels and class AB at high levels. Input sensitivity is switchable to either +4 dBu or -10 dBV.



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## Features

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Unprecedented accuracy

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Self-powered

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Two-way biamplified

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Electronically corrected

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Individually factory-aligned

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Field-cancelling magnet

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Patents pending

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## Applications

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Psychoacoustics research

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Compact Disc™ mastering

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Music recording

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Video & film dubbing

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Foley mixing

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Sound effects spotting

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STUDIO SERIES

# HD-1 Specifications

## Acoustical (each loudspeaker)

Frequency Response <sup>1</sup>	32 Hz to 22 kHz
Free Field	-3 dB at 32 Hz and 22 kHz
	±1 dB from 40 Hz to 20 kHz <sup>2</sup>
Maximum SPL	125 dB peak (120 dB @ 1 meter)
Signal-to-Noise Ratio	> 100 dB (noise floor 20 dBA @ 1 meter)
Coverage Angle	60° horizontal and vertical

## Audio Input

Type	Electronically balanced, 10k ohms impedance
Connector	XLR (A-3) female
Nominal Input Level	Accepts either +4 dBu or -10 dBV, switchable

## Amplifiers

Type	Complementary power MOSFET output stages
Power Output	
Low Frequency	150 watts burst capability
High Frequency	75 watts burst capability
THD, IM, TIM	< .02 %

## Crossover

Optimized pole-zero filter combinations to complement transducer response and to achieve acoustical transparency and flat phase

## Transducers

Low Frequency	8" diameter cone (2" voice coil)
High Frequency	1" dome tweeter (1" voice coil)

## Power

3-pin IEC male receptacle. Voltage selector switch for 100/120/220/240 VAC, 50 or 60 Hz (accepts voltages from 90 to 260 VAC)

## Physical

Dimensions	12" W x 16" H x 14" D (+ 2" additional depth for amplifier chassis and HF dome clearance)
Weight	51 lbs. (23 kg.)

Meyer Sound Laboratories has devoted itself to designing, manufacturing and refining components that deliver superb sonic reproduction. Every part of every component is designed and built to exacting specifications and undergoes rigorous, comprehensive testing in the laboratories.

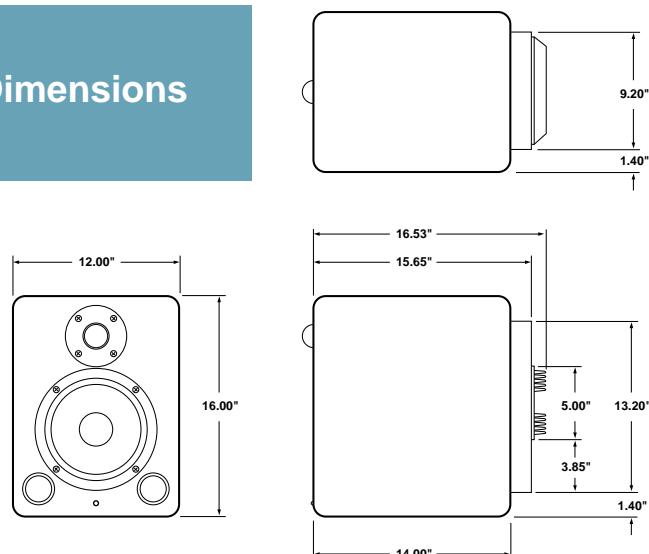
Research remains an integral, driving force behind all production. Meyer strives for sound quality that is predictable and neutral over an extended lifetime and across an extended range.

## Notes:

1. Subject to room loading. Specified for 8 feet actual distance between HD-1 cabinet and a single boundary surface.
2. One-third octave resolution.

Unless otherwise specified, all acoustical measurements are performed at 1/2 meter from front baffle on tweeter axis. Acoustical decibels are specified re 20 µPa.

# Physical Dimensions



Sound engineering for the art and science of sound.

