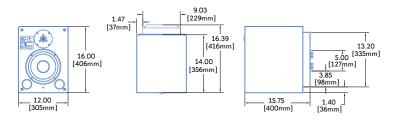
HD-1: High Definition Audio Monitor







Dimensions 12.00" w x 16.00" h x 16.39" d (+ 0.5"

for HF dome clearance)
(304 mm x 406 mm x 416 mm)

Weight 51 lbs (23.13 kg)

Finish Oak veneer with smooth medium-

gloss black

The HD-1 high definition audio monitor is a self-powered loudspeaker designed for ultra-precise near-field monitoring. Optimized to approximate a point-source radiator, the HD-1 yields exceptionally broad directivity with a generous "sweet spot." Its patented circuitry minimizes time delays and deviations from linear phase.

The HD-1 incorporates a two-channel power amplifier and a sophisticated active crossover with optimized polezero filters for acoustical transparency and a flat frequency response. The

power amplifier features complementary MOSFET output stages and operates at class A at low to moderate levels (less than 90 dB SPL) and class AB at high levels.

The HD-1 delivers a high peak SPL with a dynamic range of over 100 dB, with extremely low distortion. Its free field frequency response is flat (within ±1 dB) from 40 Hz to 20 kHz, with each unit being individually calibrated at Meyer Sound's Berkeley, California factory. The HD-1 has an active, balanced input that is switchable between a +4 dBu and -10 dBV nominal operating level.

The HD-1's transducers include a low-frequency 8-inch cone driver and a high-frequency 1-inch soft dome tweeter. The low-frequency driver's ample magnet and 2-inch voice coil yield high efficiency with rapid heat dissipation. The tweeter employs a silk-infused dome that affords smooth frequency responses while minimizing breakup and coloration. Both proprietary drivers are housed in a vented cabinet and individually tested for maximum linearity and low distortion.

FEATURES & BENEFITS

- Unprecedented accuracy for mixes that translate consistently
- Exceptional transparency for fine control of EQ and effects
- Consistent, smooth coverage pattern for a very wide "sweet spot"
- Individual alignment provides matched pairs with pinpoint imaging
- Flat low-frequency response to 32 Hz without subwoofers
- High peak power minimizes distortion and compression

APPLICATIONS

- Near-field tracking and mixing studio monitor
- High-end stereo and surround sound playback systems
- Mastering studio reference monitor
- Surround mixing for post production

HD-1 SPECIFICATIONS

ACOUSTICAL	
Frequency Response ¹	32 Hz – 22 kHz
Free Field	32 Hz - 22 kHz at -3 dB
	40 Hz - 20 kHz ±1 dB ²
Maximum SPL	125 dB peak (120 dB at 1 meter)
Signal to Noise Ratio	110 dB (noise floor 20 dBA @ 1 meter)
COVERAGE	
	60° horizontal by 60° vertical
CROSSOVER	
	Optimized pole-zero filter combinations to complement transducer
	response and to achieve acoustical transparency and flat phase
TRANSDUCERS	
Low Frequency	8" cone driver
	Voice coil size: 2"
High Frequency	1" dome tweeter
	Voice coil size: 1"
AUDIO INPUT	
Туре	10 kΩ impedance, electronically balanced
Connector	XLR female
Nominal Input Level	+4 dBu or −10 dBV, switchable
AMPLIFIER	
Туре	Two-channel complementary MOSFET output stages
	(class A at low to moderate levels; class AB at high levels)
Output Power	225 W (low frequency, 150 W; high frequency, 75 W)
THD, IM, TIM	<.02%
AC POWER	
Connector	3-pin IEC male receptacle
Voltage Selection	Selector switch for 100, 120, 220, and 240 V AC; 50/60 Hz
Operating Range	90-260, 50/60 Hz
Current Draw:	
Idle Current	0.40 A rms (120 V AC); 0.23 A rms (220 V AC); 0.47 A rms (100 V AC)
Maximum Long-Term Continuous Current (>10 sec)	1.15 A rms (120 V AC); 0.62 A rms (220 V AC); 1.32 A rms (100 V AC)
Burst Current (<1 sec) ³	1.82 A rms (120 V AC); 0.99 A rms (220 V AC); 2.16 A rms (100 V AC)
Ultimate Short-Term Peak Current	5.60 A peak (120 V AC); 3.20 A peak (220 V AC); 6.05 A peak (100 V AC

NOTES:

- Subject to room loading. Specified for 8 feet actual distance between HD-1 cabinet and a single boundary surface.
- 2. One-third octave resolution
- 3. Amplifier wattage rating based on the maximum unclipped burst sine wave rms voltage that the amplifier will produce for at least 0.5 seconds into the nominal load impedance.

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





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ARCHITECT SPECIFICATIONS

The loudspeaker shall be a self-powered, highdefinition studio monitor. The transducers shall include one 8-inch diameter cone driver with a 2-inch voice coil, and one 1-inch dome tweeter with a 1-inch voice coil.

The loudspeaker system shall incorporate internal processing electronics and a two-channel amplifier, one channel for each driver. The power amplifier shall feature complementary MOSFET output stages and operate as class A at low to moderate levels (less than 90 dB SPL) and class AB at high levels. Burst capability shall be 225 watts total with a nominal 8-ohm resistive load. Distortion (THD, IM, TIM) shall not exceed 0.02%.

Performance specifications for a typical production unit shall be as follows, measured at 1/3-octave resolution: frequency response shall be 32 Hz to 22 kHz; maximum peak SPL shall be 120 dB at 1 meter; coverage shall be 60 degrees by 60 degrees.

The audio input shall be electronically balanced with a 10 kOhm impedance and accept a nominal input level of +4 dBv or -10 dBU (switchable). The audio connector shall be XLR (A-3) type female.

Powering requirements shall be nominal 100, 110, 220, or 240 V AC line current at 50 or 60 Hz. UL and CE operating voltage range shall be 90 to 260 V AC.

Maximum peak current draw during burst shall be 1.82 A rms at 120 V AC and 0.99 A rms at 220 V AC. The AC power connector shall be a 3-pin IEC male receptacle.

Loudspeaker components shall be mounted in a premium birch plywood enclosure with a smooth medium-gloss black or wood finish. Dimensions shall be 12.00" wide x 16.00" high x 16.39" deep (305 mm x 406 mm x 416 mm). Weight shall be 51 lbs (23.13 kg).

The loudspeaker shall be the Meyer Sound HD-1 high definition audio monitor.