

HMS-10 : Cinema Surround Loudspeaker



Meyer Sound's HMS-10 is a full-range two-way loudspeaker optimized for surround channels in theatres and dub stages. Designed to complement the Acheron line of screen channel loudspeakers, the self-powered HMS-10 maintains a wide dynamic range, full fidelity, and clarity during the most demanding of digital soundtracks. Boasting a wide frequency range of 55 Hz to 18 kHz and a maximum peak SPL of 126 dB with very low distortion, the HMS-10 ensures that the full intensity and nuance of cinema surround channels reach each listener without compromise.



- Dimensions** 14.5" w x 20.0" h x 12.0" d (368 mm x 508 mm x 305 mm)
- Weight** 33 lbs (14.97 kg)
- Enclosure** Multi-ply hardwood
- Finish** Black textured
- Protective Grille** Acoustically transparent black cloth covered frame
- Mounting** Rear attachment points for optional rigging brackets

The HMS-10's transducers include a 10-inch low-frequency long excursion cone driver and a 2-inch high-frequency compression driver on a symmetrical constant-directivity 80-degree horn that delivers exceptional coverage. The proprietary drivers — designed and manufactured at Meyer Sound's headquarters in Berkeley, California — are powered by two channels of onboard amplification that include an active crossover, driver protection, and frequency and phase response correction circuitry.

conduits while still preserving the advantages of self-powered loudspeaker systems. The HMS-10's amplifier and signal-processing circuits are designed to store DC power and tolerate voltage drops, thereby accommodating light-gauge cables and lengthy cable runs. A rack mount multi-channel 48 V DC MPS power supply is available for conveniently distributing both balanced audio and DC power to the HMS-10. The use of composite multiconductor cables allows a single cable to carry both audio and DC power to each surround loudspeaker.

Meyer Sound's industry standard self-powered loudspeaker technology not only delivers unparalleled and consistent audio fidelity but also simplifies installation, whether designing a new room from scratch or adding surround channels to an existing setup. The HMS-10's compact size, textured finish, and black cloth grille blend smartly with any theater decor.

Balanced audio and DC power are received by the HMS-10 from a single 5-pin Phoenix™ connector on its top panel. Powering the unit from an external source eliminates the need for wiring

A versatile rigging bracket is available for mounting the HMS-10 on walls at adjustable angles.

FEATURES & BENEFITS

- Exceptional fidelity and extended high-frequency performance
- Constant-Q horn yields uniform response throughout the coverage area
- Extraordinarily flat amplitude and phase response for tonal accuracy
- Seamless integration with Acheron screen channel loudspeakers

APPLICATIONS

- Cinema surround
- Dub stages
- Surround mixing for production and postproduction facilities

PRELIMINARY SPECIFICATIONS

Operating Frequency Range¹	55 Hz – 18 kHz
Frequency Response²	66 Hz – 16 kHz ±4 dB
Maximum Peak SPL³	126 dB
Coverage	80° symmetrical
Transducers	One 10" low-frequency long excursion cone driver One 2" high-frequency diaphragm compression driver
Voltage Requirement	48 V DC (MPS external power supply)
Audio/Power Connector	Single 5-pin Phoenix (3 pins for balanced audio, 2 for DC power)
Input Impedance	10 kΩ differential between pins 2 and 3
Nominal Input Sensitivity	0 dBV (1.0 V rms, 1.4 V peak) continuous average is typically the onset of limiting for noise and music
Amplifier	Two-channel amplifier with electronic crossover
Output Power	300 W total
Load Capacity	4 Ω low channel, 12 Ω high channel
Cooling	Convection

NOTES: 1. Recommended maximum operating frequency range. Response depends upon loading conditions and room acoustics.
2. Free field, measured with 1/3-octave frequency resolution at 4 meters.
3. Measured with music referred to 1 meter.



HMS-10 — 04.198.004.01 A
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