

Specifications: Callisto

Room sizes Small to medium. (<200 to 600sf.)

Woofer 6" rigid piston, single-pressed paper/carbon fiber cone with ultra-linear suspension, vented under-hung Kapton voice coil. Shielded, radially-magnetized neodymium magnet.

Tweeter Lightweight 28mm polymer-coated linen dome of low resonant frequency, with large rear chamber, acoustically damped; enclosed in Q-Stone™ cast marble chamber, mechanically damped; hex-wound voice coil, Ferrofluid-cooled; 0.44g moving mass.

Cabinet features Vented 4th-order Butterworth with nearly zero box loss; twin 1.5" aerodynamic ports fire down onto supporting base, tuned to 54Hz; specially-shaped base prevents resonances between base and cabinet bottom; Q-Stone™ cabinet finished in black Texture-Kote™ for the look and feel of pin-grained leather; base trimmed front and rear with hand-dyed and -lacquered premium wood.

Soundfield Convergence™ adjustability Base may be adjusted +/-5 degrees up or down to accommodate listening heights and distances.

Response Freefield at 2m: +/- 0.75dB from 55Hz to 20kHz, -3dB at 47Hz and 21kHz. Typically -3dB at 47Hz on 24" speaker stands at 8' distant.

Distortion <0.5 percent harmonic 100Hz-12kHz, <1 percent

intermodulation, both at 98dB at 1m. I.M.D. is for any two frequencies separated by a 10:1 ratio.

Phase shift +/- 2 degrees acoustically, from 200Hz to 8kHz on listening axis. Does not vary with loudness.

Rise time <10 microseconds, positive or negative input. Does not vary with loudness.

Polarity Positive, over full bandwidth.

Dispersion Omni at 47Hz, smoothly decreasing to cardioid at 10kHz.

Crossover Balanced-Phase™ first-order circuit.

Impedance 4.8 Ohms, +/- 0.75 Ohms 100Hz to 20kHz. Does not vary with loudness.

Sensitivity 90dB for 2.83V at 1m, at sea level. Dynamically linear within 0.5dB to 100dB.

Max SPL 105dB peak at 3m from a stereo pair, first-arrival (without room gain).

Pair matching Amplitude +/- 0.25dB; impedance +/- 0.15 Ohms, 160Hz-8kHz; crossover parts +/- 0.15 percent.

Power 7 to 170W (amplifier's 8 Ohm rating).

Size 20.125"H, 8.75"W, 11.5"D with base.

Weight 60lbs/27kg each.



World Firsts 14; patentable: 7, including:

1. Its uniquely curved shape helps disperse external reflections to be less audible in any one direction. There is less 'speaker' sound.
2. The Callisto's bass ports exit beneath the cabinet, so the front surface below the woofer could be shaped to reduce those reflections specific to the voice range that are the most difficult to dispose of in two-way loudspeaker designs. The result is more clarity and less 'box' sound.
3. The base under the cabinet was shaped to prevent the ports output from resonating between the bottom of the speaker cabinet and the base.
4. The Callisto base has adjustable rear spikes to allow the cabinet to be tilted up or down for the clearest sound.
5. The two bass ports are staggered from left-to-right and from front-to-rear, to pick up pressure changes uniformly from those two dimensions inside the cabinet. This creates a smoother and more dynamic bass response.
6. The two bass ports' tubes act as acoustic diffusers behind the woofer to deflect voice-range sounds off into the acoustic-absorption materials. The enclosure is much quieter inside for more clarity in the voice range.