

Technical Specifications

Deviation:

- ±2 dB frequency response
- ±5° relative phase throughout entire overlap
- Exceptional pair-matching
- Usable output extends from 32 Hz to 40 kHz

Drivers:

- BilletCore™** ultra-high-rigidity mid-woofer
- ForgeCore™** ultra-low-distortion tweeter

Filters:

- Carmel™2 is fully passive
- Proprietary **DualCoherent™** crossover at 1.75 kHz
- Designed using software developed in-house
- ToroAir™** inductors eliminate cross-talk

Sensitivity:

87 dB / 2.83 V / 1 m 2π anechoic

Impedance:

4Ω nominal, 3.5Ω minimum

Dimensions:

103x23x31 cm (41x9x13") HxWxD

Weight:

34 kg (76 lbs) per channel unpackaged



YG Acoustics™ constantly strives to update and improve existing products as well as create new products and technologies. Therefore, specifications and construction details are subject to change without notice.

MMDesign



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CARMEL™ 2

Pure Clarity

Description

Carmel™2 delivers the lifelike natural sound of YG Acoustics™' flagship Sonja™ and Hailey™, at a price that is within reach for many of us who – until now – could only dream of owning a speaker of such ultra-high-end caliber. Carmel™2 is the culmination of years of research, and a near-obsessive desire by YG Acoustics™' lead-designer Yoav Geva, who insisted that his inevitable responsibility was to extend the leading-edge technologies of Sonja™ and Hailey™, to Carmel™2. The result is astonishing – world-class performance in a gorgeous marvel of industrial design and precision-manufacturing. Carmel™2 – spectacular sonics, timelessly elegant form, pure clarity... handmade in U.S.A.

Carmel™2 uses a fully CNC-machined construction and proprietary toroidal air-core crossover inductors. The revolutionary drivers, machined in-house for Sonja™ and Hailey™, make an encore appearance in Carmel™2. These enhancements result in ultra-low distortion, while preserving the industry-leading frequency and phase response that YG Acoustics™ is famous for.

The mid-woofer is made in-house using YG Acoustics™' proprietary **BilletCore™*** technology: the driver is precisely machined out of a massive slab of aircraft grade aluminum. This unique process offers overwhelmingly superior dynamics, musical delicacy and low distortion due to industry-leading rigidity and accuracy (tight tolerances).

The tweeter incorporates YG Acoustics™' ingenious **ForgeCore™*** system: in-house CNC-cutting introduces sophisticated 3D geometries into the motor system. The resulting improvement is greatly reduced distortion and a sense of ease to the sound.

YG Acoustics™ crossover circuits are all created using proprietary software developed entirely in-house. **DualCoherent™*** technology provides the best frequency response and relative phase available. Competing speakers are optimized in either the frequency domain (most common) or time domain. Only YG Acoustics™ has the ability to optimize both domains simultaneously.

Carmel™2's crossover uses **ToroAir™*** technology: in-house CNC-wound toroidal air-core inductors are unique in eliminating cross-talk (cross-contamination) common in crossover circuits. The result is preservation of high-frequency detail without harshness, brightness or sibilance.

Carmel™2's exquisite **Cabinet*** combines visual refinement with over-engineering. It is constructed of precision-machined aircraft-grade aluminum alloy. This material, using vibration-free pressurized

assembly, allows for the most acoustically desirable enclosures achievable. The plate-thickness is up to 35 mm (1.375"). This ensures freedom from vibration, even at impressive volume levels for a speaker of this size.

FocusedElimination™* anti-resonance technology keeps mechanical losses lower than any competing speaker, by combining the minimized turbulence of a sealed design with the low friction otherwise associated with enclosure-free concepts.

YG Acoustics™ speakers are not voiced. All measurements are verified using extensive listening tests, but the speakers are not artificially manipulated. YG Acoustics™ speakers simply convey the recording – nothing more, nothing less. The end-result: Carmel™2 is a champion of transparency, 3D-soundstaging, dynamics, inner-detail, and the natural sound of a live performance that YG Acoustics™ is famous for. This is all presented in a refined, elegant speaker with an exquisite fit-and-finish that is the showpiece of the world's finest listening environments.

Configurations

Carmel™2, in addition to its state-of-the-art two-channel (stereo) performance, is also fully compatible with multichannel audio and home-theater systems. Carmel™2 can also be combined with speakers from YG Acoustics™' other lines for properly phase-coherent multichannel systems.



* For additional details about these technologies, see our separate technology brochures