

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



Engineered by Yoav Geva

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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