

Technical Specifications

Deviation:

- ±1 dB in the audible band
- ±5° relative phase throughout entire overlap
- Exceptional pair-matching
- Usable output extends from below 20 Hz to above 40 kHz

Drivers:

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

Filters:

- Sonja™ is fully-passive. A semi-active version is available for acoustically-problematic rooms
- Proprietary DualCoherent™ crossover at 65 Hz and 1.75 kHz
- Designed using software developed in-house
- ToroAir™ inductors eliminate cross-talk

Sensitivity:

- 88 dB / 2.83 V / 1 m 2π anechoic

Impedance:

- 4Ω nominal, 3Ω minimum

Dimensions:

- Sonja™ 1.1 - 50x21x53 cm (20x8x21") HxWxD
- Sonja™ 1.2 - 129x33x63 cm (51x13x25") HxWxD
- Sonja™ 1.3 - 179x43x72 cm (70x17x28") HxWxD

Weight:

- Sonja™ 1.1 / Sonja™ 1C - 57 kg (124 lbs) per channel unpackaged
- Sonja™ 1.2 - 135 kg (296 lbs) per channel unpackaged
- Sonja™ 1.3 - 230 kg (506 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.



MYDesign





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SONJA™  
Pure Seduction



## Description

Sonja™ is YG Acoustics™' flagship, and represents everything that we know about speaker-design. Driven by innovative applications of acoustical engineering and world-class precision-manufacturing, Sonja pushes the edge of the art. Marrying these elements with stunning industrial design, results in a loudspeaker which is transformative in both performance and sheer visual beauty. Sonja™ - unparalleled sonics, timelessly elegant form, pure seduction... handmade in U.S.A.

Innovations include, first and foremost, breakthrough drivers machined in-house, and proprietary toroidal air-core crossover inductors. These enhancements result in ultra-low distortion, while preserving the industry-leading frequency and phase response that YG Acoustics™ is famous for.

The bass and midrange units are made in-house using YG Acoustics™' proprietary **BilletCore™**\* technology: the drivers are precisely machined out of massive slabs 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.

Sonja™'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.

Sonja™'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 enclosure achievable. The multi-layered structure is optimized for each module's specific frequency range. This ensures the lowest vibration achievable, even at extreme volume levels.

**FocusedElimination™**\* anti-resonance technology keeps mechanical losses lower than any competing speaker, by combining the minimized turbulence



Sonja™ 1.2

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: Sonja™ sets benchmarks in transparency, 3D-soundstaging, dynamics, bandwidth, 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

Sonja™ is available in four fully modular configurations, each of which can be expanded to the next at any time, without the need to replace existing modules:

- **Sonja™ 1.1** - an ultra-high-end compact speaker, available with or without a matching stand.
- **Sonja™ 1C** - a center-channel speaker, available with or without a matching stand.
- **Sonja™ 1.2** - an ultra-high-end medium-sized floorstanding speaker. Consists of Sonja™ 1.1 interlocked atop a matching bass module.
- **Sonja™ 1.3** - the flagship; an ultra-high-end large floorstanding speaker. Consists of Sonja™ 1.1 interlocked atop dual matching bass modules.

Sonja™ is fully compatible with multi-channel audio and home-theater systems. Sonja™ speakers can also be combined with speakers from YG Acoustics™' other lines for properly phase-coherent multichannel systems.