

# “GoldenEar’s New Triton Reference Redefines Ultra High-End Performance and Value!”



*“UNDENIABLY STELLAR ... Yes, it does deliver the sort of performance previously delivered only by cost-no-object speakers.”*

*- Dennis Burger, Home Theater Review*

GoldenEar’s Triton One is one of the best selling high-end loudspeakers ever, consistently thrilling listeners and reviewers alike, while achieving stupendous and previously unheard-of sales velocity for a loudspeaker in its price range. And, of equal importance, the One garnered an enviable and unmatched collection of the industry’s most prestigious awards, including Loudspeaker-of-the-Year or Product-of-the-Year from key publications all around the world.

Clearly, we knew that the One would be a very hard act to follow. There was a spirited discussion within our product development group about an all-out assault on the ultimate state of the art, producing a six-figure loudspeaker to do battle with the most esoteric and expensive loudspeakers on the planet. However, after

much soul-searching, rational minds won out, and the decision was made to create a new GoldenEar flagship that would joust with the best, but would still stick to our trademarked slogan, “We Make High-End Affordable.” We are pleased and proud to introduce the new Triton Reference, a loudspeaker destined to raise the bar and set a completely new performance standard for reasonably priced, affordable loudspeakers. The Reference has already begun gathering its own collection of honors, having just won the prestigious and coveted CES (the annual international Consumer Electronics Show) Innovations Design and Engineering Award, Digital Trends Best Home Audio Tech at CES, HD GURU Best High Fidelity Loudspeaker at CES and What HiFi Stars of CES!

Two 6" High-Definition Cast-Basket Reference Bass/Midrange Drivers w/ Multi-Vaned Phase Plugs

Optimized Dual-Chamber Upper Bass/Midrange Enclosure with Angled Rear and Side Walls

High-Gauss Reference High-Velocity Folded Ribbon Tweeter (HVFR™) w/ Zobel Network

Open-Cell Polyurethane Foam Damping Pads

Proprietary Mix of Long-Fiber Lamb's Wool and Dacron for Internal Damping

Three 6" x 10" Quadratic Reference Sub-Bass Drivers w/ Massive Focused-Field Magnet Structures

Elaborately Braced Accelerometer Optimized Non-Resonant Cabinet

Linear-Phase Balanced Crossover Network w/ Film Capacitors and Bridging Cap

Four Inertially-Balanced 10-1/4" x 9-1/2" Quadratic Planar Infrasonic Radiators

Two on Each Side of Cabinet

Hybrid Phase-Perfect Electronic/Passive Low Frequency Crossover

1800-Watt DSP-Controlled Class D Digital Amplifier with Programmable Logic Device Based State Machine

Elegantly Sleek Piano Gloss Black Lacquer Finish Cabinet

Massive 3/32" Thick Steel Plate Built Into the Base for Exceptional Structural Rigidity



## THE CUTTING-EDGE TECHNOLOGY BEHIND THE TRITON REFERENCE

*"The TRITON REFERENCE presents a serious challenge to speakers in the multi \$10K range. Sandy has done it again!"*

– Robert Deutsch, *Stereophile*

*"For the first time, in my opinion, GoldenEar Technology has unveiled a speaker whose looks are an UNDENIABLE match for its PERFORMANCE. And given its performance, that's saying a lot."*

– Dennis Burger, *Home Theater Review*

*"Hearing my reference tracks on those über-expensive (\$85,000) speakers, I was surprised at how well the Reference compared ... UNBRIDLED EXCELLENCE"*

– Al Griffin, *Sound & Vision*

*"GoldenEar is taking on the stratospherically priced five figure super-systems that DEFINE HIGH-END AUDIO."*

– Mark Henninger, *AVS*

*"What shocked me most was just how ... intimate the song sounded through the TRITON REFERENCE speakers"*

– Dennis Burger, *Home Theater Review*

*"PURE PLEASURE ... that had the effect of turning me into a music junkie ... once I had the Reference up and running, I found myself wanting to do little else."*

– Al Griffin, *Sound & Vision*

Some of GoldenEar's Extraordinary Series of Awards:



## INTRODUCING GOLDENEAR'S NEW FLAGSHIP, THE TRITON REFERENCE

The **Triton Reference** is an evolution of everything that we have achieved with the Triton One, but taken to a stunning new level of sonic performance and sophisticated visual design. All the components in the T Ref: including the larger active sub-bass drivers with huge Focused Field™ magnet structures, upper-bass/midrange drivers also with Focused Field magnet structures, and GoldenEar's signature high-velocity folded ribbon tweeter with 50% more rare earth neodymium magnet material, are brand new and have been specifically developed for use in the Reference. The powerful 1800 watt subwoofer amplifier, with level control to fine tune the bass to your room, and 56-bit DSP control unit are an evolution of those used in the Triton One and our SuperSubs.

*A GRAND SLAM ... all 4 Absolute Sound writers at CES (NG, RH, JM, JV) honored Triton Reference as their "Best Sound (for the money)" at the show!*

The new 6" upper/bass/midrange drivers are cast-basket units that incorporate a low-mass voice coil and a newly developed cone with unique low-mass bonding to the butyl rubber surround for improved transient response. In addition, they have a large, newly designed, specially engineered Focused Field magnet structure, which better directs the magnet flux to the voice coil gap.

*"My listening notes are full of words like "HOLOGRAPHIC," "SPOOKY," and "FRIGHTENINGLY TANGIBLE."*

– Dennis Burger, *Home Theater Review*

The newly engineered 6" x 10" active low-frequency drivers for the built-in powered subwoofers have 40% more surface area than the active drivers used in the Triton One, along with a larger diameter voice coil and an even more massive magnet structure which also utilizes our Focused Field technology.

The new Reference High-Velocity Folded-Ribbon tweeter incorporates 50% more rare-earth neodymium magnet material than do our other HVFR tweeters, for improved transient response and higher efficiency.

*"BEST SPEAKERS heard at CES ... GoldenEar Technology Triton Reference."*

– Mike Mettler, *Hi Res Audio Central*

The four inertially balanced 10-1/4" x 9-1/2" side-mounted (two on each side), planar, infrasonic radiators are similar to those used in the SuperSub X, but with greater excursion.

There are a myriad of other significant upgrades and refinements, including: new internal wiring with a specially developed twist, further development of our signature balanced crossover including film capacitors bridged across the high-pass section on the upper-bass/midrange drivers, a unique proprietary mix of long-fiber lamb's wool and Dacron for more effective internal damping, intensive

work with a high-resolution accelerometer to determine the most effective implementation of complex internal bracing, a 3/32"-thick steel plate built into the mediate base to further stiffen it for increased stability, which results in higher resolution of subtle details, new stainless steel floor spikes and cups ... and the list goes on and on.

*"... as a definitive PUT-UP-OR-SHUT-UP challenge to an industry increasingly disposed to selling staggeringly expensive products."*

– Al Griffin, *Sound&Vision*

Visually, the Reference offers a strikingly beautiful upgrade to the classic Triton styling, with a gorgeous hand-rubbed piano gloss-black lacquer finished one-piece monocoque cabinet. Sleek, statuesque and refined, the Reference is simply a gorgeous statement piece that will excite listeners with its dynamic visual presence, as well as its extraordinary sonic performance.

Sonically, the Reference has been engineered to perform with a dramatic and authoritative voice, comparable to speakers that sell for 10 and more times its surprisingly affordable price. They completely disappear, with superb three-dimensional imaging that stretches from wall to wall and beyond, and depth that makes the wall behind them seem to vanish. The astonishing bass is rock-solid with low-frequency performance that is tight, quick, highly impactful and musical with extension flat to 20 Hz and below. Another GoldenEar signature is a silky smooth high end that extends to 35 kHz with a lifelike sheen but no trace of harshness, sibilance or stridency so common with lesser tweeters. Tremendous time and energy has been put into the voicing of the speaker and the seamless blending of the drivers, for unmatched musicality with all types of music, and home theater perfection. Rarely do speakers excel at both, but with their world-class neutrality, the Reference absolutely does. A special bonus is the Reference's extremely high 93.25 dB sensitivity, which gives them tremendous dynamic range and allows use with almost any high-quality amplifier, including many SET tube amps.

### SPECIFICATIONS\*

**Dimensions:** Speaker: 9-1/4" W x 18-3/4" D x 58" H (w/ base) Base: 13-5/8" W x 22-1/4" D. **Frequency Response:** 12 Hz – 35 kHz. **Efficiency:** 93.25 dB. **Nominal Impedance:** Compatible with 8 ohms. **Driver Complement:** Three 6" x 10" long-throw quadratic Reference subwoofers, coupled to: Four 9-1/2" x 10-1/2" quadratic planar infrasonic radiators, Two 6" high-definition cast-basket Reference mid/bass drivers, One high-gauss Reference High-Velocity Folded Ribbon (HVFR™) tweeter. **Rec. Amp:** 20 – 750 Watt/channel. **Built-In Subwoofer Power Amplifier:** 1800-Watt ForceField digital/56 bit DSP subwoofer amplifier. **Power Requirements/Consumption:** Low voltage version - 120 V at 60Hz / 1800 Watts. High voltage version - 240 V at 50Hz / 1800 Watts (approved for NA (TUV) and the CE market.).

*\*Specifications are subject to change without notice.*



## TritonCinema RECOMMENDED SYSTEM COMPONENTS

The TritonCinema systems consist of a pair of Triton towers, one or two ForceField or SuperSub Subwoofers (built-in on TritonCinema Reference, One, Two+ and Three+ systems), a SuperSat or SuperCenter Center Channel, two or four SuperSat 3 Surrounds/Rears, and two to four Invisa in-ceiling or SuperSat 3C on-wall for Atmos Height channels. And, any of the Invisa in-wall models are also perfect as Surround/Rear speakers. Space permitting, large systems can even use Triton Towers as surrounds or larger SuperSat models. Also, if desired, you can certainly add additional subwoofers, although the Triton Reference's, One, Two+'s and Three+'s built-in subs are more than adequate for most installations. See the list of popular system options below.

### CENTER CHANNELS

SuperCenter X, SuperCenter XL, SuperCenter XXL, SuperSat® 50C, SuperSat® 60C

### SURROUNDS or HEIGHT CHANNELS

Aon 2, Aon 3, SuperSat® 3, SuperSat® 50, SuperSat® 60, Invisa® 525, Invisa® 650, Invisa® HTR 7000, Invisa® MPX MultiPolar



### THE TRITONS HAVE TRIUMPHED!

- Audio Product of the Year: *Sound & Vision*
- Affordable Loudspeaker of the Year: *The Absolute Sound*
- Affordable Floorstanding Speaker of the Year: *HomeTheaterReview*
- Speaker of the Year: *What HiFi*
- Editor's Choice Greatest Overachiever: *The Perfect Vision*
- Top Pick of the Year: *Home Theater Magazine*
- Product of the Year: *Electronic House*
- Editors' Choice: *The Absolute Sound*
- Recommended Component: *Stereophile*
- Best Sound for the Money CES 2013, 2014, 2015, 2016 and 2017: *The Absolute Sound*

## STATE-OF-THE-ART GOLDENEAR TECHNOLOGY DRIVERS



### HIGH-GAUSS NEODYMIUM REFERENCE HIGH-VELOCITY FOLDED RIBBON (HVFR) TWEETER

- Tweeter Diaphragm is a High Temperature Film
- 50% Larger High-Power Neodymium Magnet
- Squeezes/Pressurizes Air Instead of Pushing It
- Greater Control, Smoother and More Extended Response
- Vanishingly Low Distortion
- Dramatically Improved Dynamic Range and Detail
- Superb Dispersion Characteristics



### HIGH-DEFINITION 6" CAST-BASKET REFERENCE BASS/MIDRANGE DRIVERS WITH FOCUSED FIELD MAGNET STRUCTURES

- GoldenEar Multi-Vaned Phase Plug (MVPP) Design
- Rigid Free-Flow Cast-Basket Chassis
- Proprietary Computer Optimized Cone Topology
- High-Gauss Magnet Assembly
- 1" High-Temperature Kapton Former Voice Coil
- Extremely Extended Resonant-Free Linear Frequency Response Characteristics



### 6" X 10" LONG-THROW QUADRATIC REFERENCE SUB-BASS DRIVERS WITH FOCUSED FIELD MAGNET STRUCTURES

- Ultra-Long Throw
- Glass Fiber and Nomex® Composite Cone
- Huge, High-Gauss Magnet Assembly
- 1.5" High-Temperature Aluminum Voice-Coil
- Quadratic Cone Topology for Maximum Cone Surface Optimization



### 9-1/2" X 10-1/2" QUADRATIC PLANAR INFRASONIC RADIATORS

- Quadratic Planar Radiators, Four on Triton Reference
- Pressure-Coupled Loading Extends Usable Bass Performance to the Infrasonic Region
- Performs Like a Well-Tuned Transmission Line but with Superior Transient Performance and Control
- Inertially-Balanced Opposing Design

**GoldenEar Technology**

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