GoldenEar's™ ForceField Subwoofers "Near Perfect...a Tour de Force"

— Andrew Robinson, Home Theater Review.com

"a truly visceral low-frequency experience"

— Stephen Withers, AV Forums

"shockingly musical"

— Dennis Burger, Home Tech Tell



ForceField 3 and ForceField 4 Ultra-Resolution High-Powered Subwoofers

GoldenEar's[™] award-winning ForceField subwoofers have been engineered from the ground up to combine subtle musical detail with earth-shaking high-impact power; all in attractive, compact enclosures which blend well into any environment. GoldenEar's engineering team has the benefit of over 20 years experience designing some of the world's best sounding, most highly reviewed and best-selling powered subwoofers. Paramount in their design goals was the importance of not sacrificing sound quality in order to achieve unrealistic size goals. But just as key was the importance of compact size that did not make the subwoofers any larger than necessary in order to achieve uncompromising, state-of-the-art, sonic performance. You will instantly see and hear how well these seemingly conflicting goals were brilliantly both achieved with the combination of creative thinking and cutting-edge engineering prowess.

"I was dumfounded by how much output the sub could muster"

- Mark Fleischmann, Home Theater

"massive amounts of low-end prowess"

— Dennis Burger, Home Tech Tell

"frighteningly good at hammering out low frequencies"

— Darryl Wilkinson, Sound & Vision

Some of GoldenEar's™ Extraordinary Series of Awards:



























































The Sophisticated Technology Behind the ForceField Powered Subwoofers

Of course, to achieve a tour de force like the ForceFields, the basic concept is absolutely key. The ForceFields all combine high-power forward-radiating ultra-long-throw sub-bass drivers coupled to downward-firing quadratic planar infrasonic radiators. This brings together the superior transient response and detail of moderately sized active drivers with the subsonic capability and extraordinary room-filling coupling of large diaphragm radiators. In fact the radiators, in combination with the slot-loading to the floor, approximate the near perfect impedance match to the air of a welltuned transmission line. This combination is also very flexible in terms of room-placement requirements.

"handled low-frequency barrages with floorshaking confidence" — Mark Fleischmann, Home Theater

Next, the engineering team spent countless hours developing a unique high-power (FF 4-1200 Watts & FF 3-1000 Watts) DSP controlled class D digital amplifier. This sophisticated amp has a Programmable Logic Device (PLD) based state machine with a nearly instantaneous 278 nanosecond update time, to perfectly manage a myriad of functions including: soft-clipping, DC offset control, output-stage anti-saturation protection and discrete multi-band limiting. The DSP control also allows for very precise equalization. In addition, intrinsic THD is extremely low, so very little negative feedback is required, thus ensuring optimum transient performance.

"remarkably agile...palpable with organic flare"

— Andrew Robinson, Home Theater Review.com

Finally, a unique cabinet shape was chosen, both for its undeniable aesthetic appeal, as well as its performance enhancing attributes. The non-parallel cabinet walls dramatically cut down and help control internal reflections, as well as stiffen the cabinet structure itself. The end result is stunning impact, superbly musical bass articulation and breathtaking infrasonic capabilities that can powerfully pressurize a room in a way that leaves listeners breathless. The unique achievement of the ForceFields means they can bring the power of T Rex into your living room, as well as the musical subtlety of YoYo Ma or Sting.

FORCEFIELD 3 SPECIFICATIONS

Dimensions: 11-1/2" W x 15-3/4" D x 11" H (height is with feet installed).

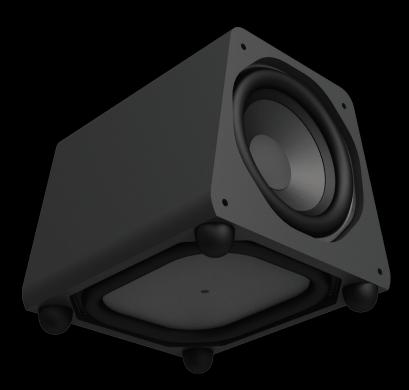
Frequency Response: 18 Hz – 250 Hz. Driver Complement: One 8" long-throw high-output bass driver, One 9" x 11" quadratic plannar infrasonic radiator. Amplifier: 1000-Watt ForceField digital amplifier. Speaker Level High-Pass Filter: 6 dB per octave at 150 Hz (approx.). Speaker Level Low-Pass Filter: 12 dB per octave continuously variable from 40 – 150 Hz. **Low-Level Input (Mono):** Unfiltered (no low pass), direct-coupled.

FORCEFIELD 4 SPECIFICATIONS Dimensions: $13^{-1}/2^{\circ}$ W x $17^{-7}/8^{\circ}$ D x $12^{-3}/4^{\circ}$ H (height is with feet installed). Frequency Response: 14 Hz - 250 Hz. Driver Complement: One 10° long-throw high-output bass driver, One 11° x 13° quadratic planar infrasonic radiator. Amplifier: 1200-Watt ForceField digital amplifier. Speaker Level High-Pass Filter: 6 dB per octave at 150 Hz (approx.). Speaker Level Low-Pass Filter: 12 dB per octave continuously variable from 40 – 150 Hz. **Low-Level Input (Mono)**: Unfiltered (no low pass), direct-coupled.

*Specifications are subject to change without notice.

"Extraordinary bass prowess...I've never heard a sub this small go that deep"

— Steve Guttenberg, CNET The Audiophiliac



State-of-the-Art GoldenEar Drivers



Ultra-Long-Throw Sub-Bass Driver

- Ultra-Long Throw High-Output Bass Driver for Powerful Room-Shaking Bass
- Superior Transient Performance for Exceptional Detail
- Computer Optimized Ultra-Stiff Fiber Cone
- Massive High-Gauss Magnet Assembly



Quadratic Planar Infrasonic Radiator

- 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
- Used in all ForceField Subwoofers



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