

TAD

TECHNICAL AUDIO DEVICES LABORATORIES, INC.

**TECHNICAL AUDIO DEVICES LABORATORIES, INC.**

4-15-3 Nishi-Shinjuku, Shinjuku-ku, Tokyo 160-0023, Japan

<http://tad-labs.com>

Note: Specifications, design and screenshots subject to modification without notice.

Product colors and illumination may differ in photographs from actual appearance, due to effects printing and photography.

Copyright © 2012 TECHNICAL AUDIO DEVICES LABORATORIES, INC. All rights reserved. Printed in USA

TAD

*Evolution Series*



SPEAKER SYSTEM

**Evolution One**

01.2012

Total music liberation.





TAD Evolution One: a superb speaker system that further expands the possibilities of the single point source.  
It inherits the TAD Reference One DNA yet blazes its own trail.  
With an innovative shape, it delivers totally satisfying, sublime sound quality.



## DRIVE

The heart of the TAD Evolution One is the CST\* Driver developed from that used in the TAD Reference One — a driver that embodies the single point source concept. The midrange and tweeter are configured coaxially so their directional characteristics conform. The resultant directional response remains uniform across a wide frequency, ensuring extremely stable sound localization and a natural soundfield.

\* CCST: Coherent Source Transducer



The tweeter diaphragm is made of beryllium, the lightest and stiffest metal available for speaker diaphragms. Formed by TAD's unique deposition technique, it exhibits high internal loss and smooth frequency response. Achieving an ideal diaphragm shape based on computer analysis, it is capable of reproducing frequencies up to 100kHz. The midrange features an extremely lightweight magnesium diaphragm with high internal loss. Both of these units reproduce sound with virtually no distortion and none of the coloration characteristics of other materials.

## PRECISION



## STRENGTH

As a woofer requires a high degree of both stability and strength, TAD developed the MACS\* diaphragm, made by laminating many layers of Aramid fabric and non-woven fabric for light weight and high stiffness. This shell-shaped diaphragm with integrated center cap and cone is driven by a large diameter voice coil and neodymium magnet, reproducing rich, clear bass with low coloration. The aero-design chassis is designed to minimise any airflow noise and improve the resolution of bass sounds.

\* MACS: Multi-layered Aramid Composite Shell

The SILENT\* enclosure features a framework of high rigidity birch plywood combined with MDF for high internal loss, achieving an enclosure that combines high strength with low resonance. The enclosures teardrop shaped rear section further ereduces unwanted cabinet resonance as a result of the improved stiffness of the curved panels. Two finishes: high gloss black, or wood veneer with a closed-pore satin finish, enhance the beauty of the curved cabinet design.

## ELEGANCE

\* SILENT: Structurally Inert Laminated Enclosure Technology

## ISOLATION

TAD put a great deal of effort into the design of the networks, to seamlessly intergrate the drive units into a cohesive whole. To eliminate any effects from magnetism and vibration due to the CST and bass drivers, the network filters are located outside of the cabinet. Installed within the high rigidity aluminum base, these networks are isolated both mechanically and acoustically from the influence of the main enclosure, ensuring maximum resolution.



- An aerodynamic vent allows for maximum airflow with minimum vent noise, for unparalled bass reproduction at high level.
- Equipped with independent binding posts for the CST Driver network and the woofer network, bi-wiring and bi-amping connectivity is made possible.
- The large, specially developed terminals were machined from brass and are mounted on an aluminum plate.

### Evolution One Specifications

- Model No.: TAD-E1-WN (Wood Finish), TAD-E1-K (Black Finish)
- Model: 3-way bass reflex floor loudspeaker
- Drive Units • Woofer: 18cm cone x 2 • Midrange/tweeter: coaxial 14cm cone/3.5cm dome
- Performance data • Frequency response: 28Hz to 100kHz • Crossover frequencies: 250Hz, 2Hz
- Required amplifier output: 50W to 250W • Sensitivity: 88dB (2.83V, 1m) • Rated impedance: 4Ω
- Others • Weight: 54kg (1 unit) • Dimensions: 334mm (W) x 1,166mm (H) x 512mm (D)
- Accessories Accessory kit: Spike cone x 3, spike shoe x 3, auxiliary legs (long) x 2, short cable (single wire short type) x 1, short cable (single wire long type) x 1, cleaning cloth, owner's manual, warranty



SPEAKER SYSTEM  
**Evolution One**