

# TAD

Evolution Series

# TAD

TECHNICAL AUDIO DEVICES LABORATORIES, INC.



SPEAKER SYSTEM  
**Grand Evolution One**  
**TAD-GE1**



## TAD Grand Evolution One Specifications

•Model No./ TAD-GE1-WN •Type/ 3-way, bass-reflex floor-standing speaker system •Drive units/ Woofer: 18cm (7 1/16 in.) cone x 2; Midrange/tweeter: Coaxial 14 cm (5 1/2 in.) magnesium cone and 3.5 cm (1 3/8 in.) beryllium dome  
•Performance data/ Frequency response: 27Hz to 100kHz; Crossover frequencies: 250 Hz, 1.8 kHz; Maximum input: 250 W; Sensitivity: 88 dB (2.83 V, 1 m); Impedance: 4 Ω; Weight: 64kg (141.1 lb) per unit; Dimensions: 394 mm (15 1/2 in.) (W) x 1212 mm (47 11/16 in.)(H) (1240 mm (48 13/16 in.) with spikes) x 547 (21 1/2 in.) mm (D) •Accessories/ 2 Woofer grille, 2 short cables, 3 spike, 3 spike receptacle, 2 auxiliary feet, cleaning cloth, owner's manual

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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.

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SPEAKER SYSTEM  
**Grand Evolution One**

## Innovation drives authenticity

For years, TAD has been pursuing innovation and authenticity in reproducing music in its truest form. In the TAD-GE1, you find innovation and authenticity are not contradictory to each other but are complementary to each other. The TAD-GE1 faithfully follows the tradition of TAD sound — which makes you feel as if you were “inside the music” rather than just listening to it — and yet embodies the highest level of innovation. The merger of sound image and field creates a spatial three-dimensional sound field, in which intent of every artist is faithfully recreated, delivering an immersive and soul-stirring listening experience.

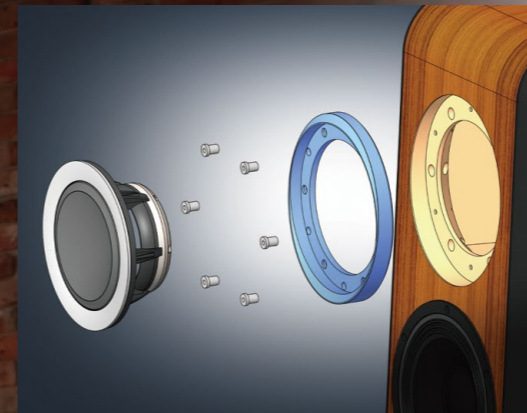
The TAD-GE1 is an engineering marvel that proves innovation drives authenticity.



## Uncompromising approach to incorporating TAD technologies into designing an all-new floor-standing speaker system.

### Clear, natural-sounding mid-to-high-frequency reproduction

To achieve ideal single-point-source sound, TAD's proprietary CST (Coherent Source Transducer) Driver controls the directivity of the concentrically mounted midrange and tweeter and eliminates irregularities in directivity. As is the case with our top-of-the-line TAD-R1TX and TAD-CR1TX speakers, the tweeter of the GE1 features a beryllium diaphragm manufactured with our proprietary vapor deposition technique. Its midrange uses a magnesium diaphragm to reproduce distortion-free midrange frequency. The GE1's CST Driver is responsible for clear and solid imaging, as well as natural sound field reproduction, over a ultra-wide frequency range from 250 Hz up to 100 kHz.



### Music reproduced with every detail and nuance intact

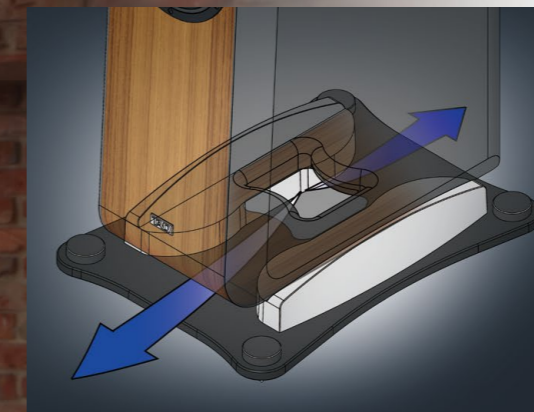
The ISO (isolation) Drive Technology was applied to the way the GE1's CST Driver is mounted to its enclosure. With this innovative approach, the CST Driver is mechanically isolated from the enclosure, as well as from the powerful low-frequency vibration. At the same time, this technology keeps vibration generated by the powerful driver from exciting the enclosure and reduces secondary acoustic radiation. As a result, the driver reproduces waveforms accurately and delivers crystal-clear sound. The GE1 ensures that only the sound generated by the diaphragm reaches the listener as faithfully as possible in a manner expected of an ideal single-point-source sound. The result is music reproduced with its every detail and nuance intact, including constantly and delicately changing tones and dynamics.

### Rich, smooth mid-to-low-frequency reproduction

The GE1's 18-cm woofer features a MACS II\* diaphragm made of five layers of woven and non-woven fabric. An elaborate combination of a shell-shaped diaphragm that integrates the center cap and the cone into a single piece, a cradle-shaped rear frame that handles the powerful driving force generated by a large neodymium magnet, an aerodynamically designed rear of the diaphragm that suppresses a turbulent air flow, and the corrugated surround back-coated with damping material – a technique originally developed for TAD's professional-use speaker units – contributes to a rich, distortion-free low-frequency-range sound, as well as a mid-to-low-frequency range free of coloration.



\*Multi-layered Aramid Composite Shell Second Generation



### Rich, natural-sounding bass

The Bidirectional ADP (Aero-Dynamic Port) System positions a port on the bottom of the enclosure with its openings to the front and rear of the enclosure. The port has a horn-shaped interior that reduces port noise and achieves greater efficiency in driving the port to help reproduce clear and responsive sound in the mid-to-low frequency range. The combination of the port flare made of die-cast aluminum and the symmetrical front-back layout of the port effectively offsets the physical force that vibrates the enclosure and, as a result, helps reproduce a powerful bass. Moreover, the 15-mm-thick aluminum base plate attached to the bottom of the enclosure increases the stability of the speaker system when placed on the floor and counterbalances the reaction caused by the powerful driving force of the twin woofers.

### Superb sound-image localization and sound-field reproduction

Three circuit board assemblies – one each for the tweeter, midrange, and woofers – are separately mounted inside the enclosure to minimize the chance of interference among them. All network filters are encased in the back of the enclosure to be acoustically isolated from the enclosure itself, as well as from the adverse effect of high sound pressure generated internally by the woofers and the CST Driver. Each element used in the network filter is placed free from acoustic excitation, which results in accurate reproduction of sound fields, as well as three-dimensional reproduction of sound images, leading to crystal-clear music reproduction.

