

TECHNICAL AUDIO DEVICES LABORATORIES, INC.

INTEGRATED AMPLIFIER

A1000



TAD-A1000-S (Silver)　TAD-A1000-K (Black)　Rear panel

TAD-A1000 Specifications

■Power Output: 250 W/ch at 1 kHz, 4 Ω ■Rated Distortion: Less than 0.05% at 1 kHz, 4 Ω, 125 W ■Signal-to-Noise Ratio: 100 dB or more ■Frequency Response: 10 Hz to 50 kHz, +0/-3 dB ■Gain (Balanced): 41.5 dB ■Input Terminals (Impedance): 4 balanced pairs (100 kΩ), 2 unbalanced pairs (50 kΩ) ■Power Requirements: AC 120 V, 60 Hz (USA), AC 220 V to 230 V, 50 Hz/60 Hz (Europe/Asia) ■Power Consumption: 130 W ■Standby Power Consumption: 0.5 W or less ■Dimensions: 440 mm (W) x 200 mm (H) x 553 mm (D) [17-21/64 in. (W) x 7-7/8 in. (H) x 21-49/64 in. (D)] ■Weight: 29 kg (63.9 lb)

INTEGRATED AMPLIFIER

A1000D



TAD-A1000D-S (Silver)　TAD-A1000D-K (Black)　Rear panel

TAD-A1000D Specifications

■Power Output: 250 W per channel at 1 kHz, 4 Ω ■Rated Distortion: Less than 0.05% at 1 kHz, 4 Ω, 125 W ■Signal-to-Noise Ratio: 100 dB or more ■Frequency Response: 10 Hz to 50 kHz, +0/-3 dB ■Gain (Balanced): 41.5 dB ■Analog Input Terminals (Impedance): 3 balanced pairs (100 kΩ), 2 unbalanced pairs (50 kΩ) ■Digital Input Terminals: Balanced (XLR) x 1, coaxial x 1, optical x 1, USB x 1 ■Compatible Sampling Frequencies: XLR/Coaxial: 44.1/48/88.2/96/176.4/192 kHz; Optical: 44.1/48/88.2/96 kHz; USB PCM: 44.1/48/88.2/96/176.4/192/352.8/384 kHz; USB DSD: DSD64/DSD128/DSD256 ■USB Operating Environment: USB 2.0 high-speed ■Power Requirements: AC 120 V, 60 Hz (United States), AC 220 V to 230 V, 50 Hz/60 Hz (Europe/Asia) ■Power Consumption: 130 W ■Standby Power Consumption: 0.5 W or less ■Dimensions: 440 mm (W) x 200 mm (H) x 553 mm (D) [17-21/64 in. (W) x 7-7/8 in. (H) x 21-49/64 in. (D)] ■Weight: 31 kg (68.3 lb)

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

Evolution Series

INTEGRATED AMPLIFIER

A1000 & A1000D



Innovations transform your audio experiences

The TAD-A1000 Series of integrated amplifiers is designed to bring you closer to the music, serving as the centerpiece of a truly immersive home listening experience. Combining the advanced engineering that defines TAD Evolution Series hi-fi components with refined styling, the TAD-A1000 Series unites fast, dynamic sound performance with aesthetic sophistication. The addition of the TAD-A1000D, with its digital inputs, further expands the series' capabilities for an even more rewarding listening experience.

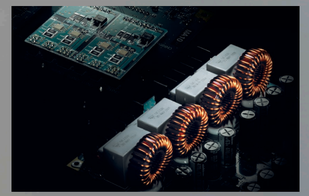
TAD-A1000 TAD-A1000D



The circuit pattern and components are symmetrically arranged along the center of the chassis on the audio motherboard of the critical preamplification circuit to suppress even the slightest amplification errors between positive and negative signals, as well as between right and left channels. The pursuit of perfect symmetry extends further. We have laid out three power transformers, the chassis construction, and rear-panel jacks symmetrically to achieve optimal structural weight distribution and vibration balance.



TAD-A1000 TAD-A1000D



The integration of an analog power supply circuit comprising twin high-capacity toroidal transformers and electrolytic capacitors with a Class-D output stage established the foundation for a pure amplification stage and an exceptionally high-speed and powerful response. Direct FET devices with ultra-low on-resistance in leadless packages facilitate signals with sharp rising edges. The highly efficient Class-D output stage, which generates minimum heat and eliminates the need for conventional heat sinks, delivers an impressive 250 watts of power per channel.

TAD-A1000 TAD-A1000D



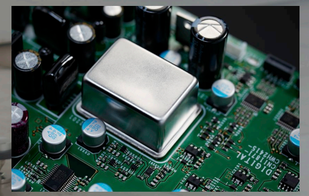
The internal coils of the high-capacity toroidal transformers are directly connected to the power supply circuit. The cross-section of the transformer core was designed in a circular shape to enhance the contact between the core and coils, thereby minimizing unwanted leakage magnetic flux and vibrations. This design results in a power supply with improved purity. Extremely low energy-conversion loss, thanks to the strong coupling between the primary and secondary winding of the transformer, low load fluctuations resulting from parallel winding, and the use of TAD's proprietary 33,000 µF electrolytic capacitors contribute to the analog power supply's enhanced driving capability, even under abrupt load fluctuations, and outstanding high-speed responsiveness.

TAD-A1000 TAD-A1000D



The volume knob exudes an exquisite aesthetic and tactile experience. It is meticulously mounted on high-precision ball bearings, ensuring an exceptionally smooth and effortless rotation, a hallmark of TAD's hi-fi audio components. The center-mounted design of the volume knob signifies the symmetrical arrangement of the internal circuits. Both models adhere to a design language shared with other offerings in the Evolution Series.

TAD-A1000D



The TAD-A1000D features the third-generation Ultra-High-Precision Crystal Generator (UPCG), originally developed for the TAD-D700 Reference Series CD/SACD player. Designed for an exceptionally high carrier-to-noise (C/N) ratio, the UPCG uses TAD's proprietary oscillator with an SC-cut crystal to reduce phase noise and minimize temperature-related frequency drift during operation at room temperature. It maintains high C/N performance over time, ensuring precise sampling and decoding of original digital signals. The result is smooth, dynamic sound with exceptional spatial depth.

TAD-A1000D



The TAD-A1000D incorporates TAD's proprietary third-generation asynchronous USB transfer circuit, which complies with the USB Audio Class 2.0 standard and supports DSD256 at 11.2 MHz and PCM 384 kHz. By substantially reducing operational latency in the field-programmable gate array (FPGA), the design minimizes low-level distortion. Working in conjunction with the UPCG, the USB transfer circuit enables accurate decoding of original audio data for greater clarity in music reproduction.

TAD-A1000D



The TAD-A1000D utilizes TAD's proprietary current-feedback amplifier in its current-to-voltage (I/V) converter. By feeding back the current output from D/A converters directly, the amplifier enables simple, high-purity signal conversion. This design lowers impedance and improves noise immunity, helping preserve signal purity on the way to the preamplification stage.