



TubeDAC-09

Vacuum Tube Digital-to-Analog
Converter & Headphone Amplifier

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Thank you for purchasing Grant Fidelity TubeDAC-09 Vacuum Tube DAC & Headphone Amplifier.

We strongly suggest you to read the following documents in its entirety to ensure safe and successful operating of the product.

Please keep this document for future reference.

Features:

This DAC is designed to ensure your enjoyment of your collections of digital music in the most convenient and high fidelity way.

- ❖ (5) sets of inputs: including (2) sets of analog RCA inputs (DVD/CD, AUX), (1) coaxial, (1) optical and (1) USB input.
- ❖ (2) sets of RCA outputs – transistor and vacuum tube.
- ❖ Built-in headphone amplifier: allows you to enjoy music with privacy. Great power, music layers and details.
- ❖ Genuine imported processing chip – the model number was erased on purpose during production to deter unlawful copy of design by unethical manufacturers.

- ❖ All resistors and capacitors are audiophile grade to ensure sound quality. Key parts are from Germany and Taiwan etc..
- ❖ R-shape high efficiency transformer.
- ❖ Separate power supply rectification to analog and digital circuits.
- ❖ Gold coated RCA connectors and coaxial connector.
- ❖ Vacuum tube output use well-known Chinese 6N3 tube. It can be replaced with 5670 type of tube.
- ❖ Brushed aluminum (7mm thickness) faceplate, with all metal buttons and knobs, plus blue LED indicator light.
- ❖ Can also be used as a pre-amplifier.

Operations:

The following operations procedures should be followed to ensure optimal performance and avoid damages to your music play back system.

- ❖ Before the DAC is completely connected, please DO NOT plug in the unit and power on. All interconnects and headphone amplification cables should only be connected while the unit is Power OFF. Plugging or unplugging signal

cables or headphones during Power ON may cause damage to the product and your headphones.

- ❖ We strongly recommend you to use high quality audiophile grade cables to ensure high fidelity performance.
- ❖ If your RCA inputs / outputs connectors are severely oxidized, the sound quality will greatly suffer. Regular cleaning of these parts with proper materials or solutions is highly recommended to ensure the product's best performance.
- ❖ How to connect headphones? - The headphone output is a standard 6.5mm connection. You may use a 6.5mm-to-3.5mm adaptor to use other type of headphones.
- ❖ How to connect with power amplifier? - This product can be used as a preamp to connect to power amplifiers.
- ❖ How to Power ON the product? - When all is connected, you should power on your source components (such as DVD/CD players or tuners) first, then DAC-09, the last one is the power amplifier. When turning the system off, the sequence should reverse, i.e. power off power amplifier first, then TubeDAC-09, then the source components.

- ❖ Where to set the volume control when power ON? - Before turning on the product, you should set the volume to minimum. Once the unit is turned on, vacuum tube will takes about 20 seconds to warm up to working condition, then gradually adjust the volume control to desired loudness.
- ❖ You may use the volume control to adjust the pre-amplification signal in this product, hence to control the loudness of the headphone or power amplifier. Whenever changing sources, you should turn the volume to minimum to ensure safe operation. When using the TubeDAC-09 with an integrated amp or pre-amp, the nominal volume level is approximately half volume (5 to 6 on a scale of 10)
- ❖ USB Operation – Plug in USB 2 Audio device, select USB TubeDAC-09. If using a computer for your source, select USB Audio output on your soundcard. USB Drivers are standard on most modern computers.
- ❖ Optical Operation – Please select a high quality Optical cable for proper operation. Leave dust caps in place when not in use.
- ❖ Extremely loud volume will cause damage to your loudspeakers and/or

your headphones. Please avoid operating the product at extreme volume.

- ❖ If you are not familiar with the dynamics of the music you are playing, please keep the volume to moderation to avoid damages to your speakers, headphones or this DAC.

Technical specifications:

Input Impedance: Analog 100 kohm
 Digital 75 kohm

THD: Transistor output - $\leq 0.001\%$
 Tube output - $\leq 0.1\%$

Frequency Response: 20Hz – 30kHz +/-1dB

Maximum Output: 1000mW x 2 (32ohm)
 500mW x 2 (300ohm)
 300mW x 2 (600ohm)

S/N Ratio: Transistor – 96dB
 Tube – 90 dB

This DAC supports 16bit, 20bit and 24 bit audio depending on source.

Sampling Frequency: 32kHz, 44.1kHz, 48kHz, 88.2kHz and 96kHz, depending on source.

Output voltage: > 2000 mV

Dynamic Range: 117 dB

Power Supply: AC115/230V, 60/50Hz

Measurement: 26cm x 5.5cm x 17cm

Working Temperature: 5-40 Degree Celsius

Working Humidity: 35-80%

Net weight: 2kg

Packing List:

- TubeDAC-09
- User manual
- Power cord

Caution:

- ❖ Do not open the product yourself. High voltage inside. Only qualified service personal should enter unit.
- ❖ Please check the voltage setting at first use to ensure it matches your local power supply.
- ❖ Do not pinch the power cord. Only plug or unplug by holding the terminals, not the cord.

- ❖ Do not use this product in damp locations such as bathrooms or around kitchen sinks.
- ❖ Please allow sufficient ventilation around the product while in use. Do not install the product to an enclosed shelf which may prevent heat dissipation.
- ❖ Do not use chemicals to clean this product. Only use dry soft fabric to clean the surface.
- ❖ Do not drop metal objects into the unit. If such incident happens, please send the product to certified technician for repairs.
- ❖ You should unplug all electronics during thunder storms.
- ❖ If the unit smells or smokes, please unplug it immediately and contact a certified technician for repair.
- ❖ Changing the parts of the product without distributor authorization will void this product's warranty.

This product comes with the Grant Fidelity 12-month parts and labour warranty and the 90 day warranty on the vacuum tube.

If you need warranty service, please contact sales@grantfidelity.com.