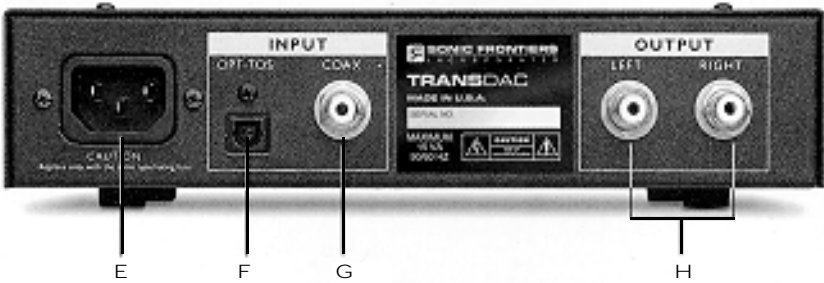
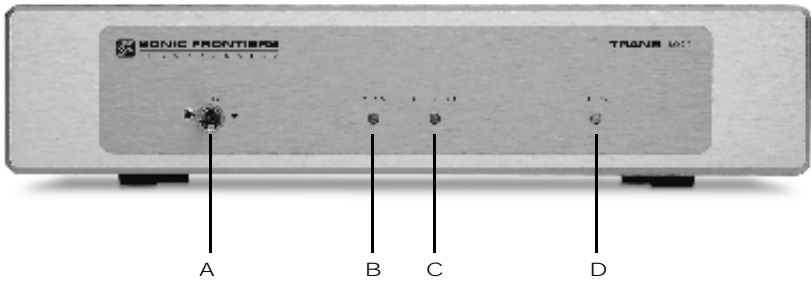


THE SONIC FRONTIERS TRANS DAC





A. Digital Source Select Switch - This two position toggle selects the desired digital input path, (Toslink plastic fibre optical or RCA - coax connector).

B. Coax Source Indicator - The LED will light to indicate when the Digital Source Selector Switch (A) has selected the Coax digit input path.

C. Optical-Toslink Source Indicator LED - This LED will light to indicate when the Digital Source Selector Switch (A) has selected the Optical Toslink digital input path.

D. Lock LED - This LED will light to indicate when the TransDAC is synchronized to the incoming digital data stream.

E. IEC Socket - The detachable power cord connects here. When the TransDAC is plugged in to a power source, the unit is on. See Figure I

F. Optical-Toslink Input - This is the input socket for an S/PDIF Toslink - fiber optical connection to the digital source.

G. Coaxial Input - This is the input socket for a coaxial - S/PDIF - RCA connection to the digital source. The coaxial - S/PDIF - RCA cables impedance should be 75 ohms.

H. Left and Right Channel RCA Single-Ended Audio Outputs - These line level outputs are connected to preamplifier, integrated amplifier or receiver inputs.

The TransDAC is factory set for the correct operating AC voltage for the area in which it is sold. If a different operating voltage is required, please contact an authorized Sonic Frontiers dealer, distributor or the factory directly.

OPERATION OF THE TRANSDAC

Place the TransDAC on a solid shelf or table away from major heat sources and magnetic fields. Plug the detachable AC power cord into the IEC socket (E). See Figure 1.

Using your favorite digital interconnect, connect a digital source which features a Coaxial or Optical Toslink digital output to the Coaxial (G) or Optical-Toslink (F) digital inputs of the TransDAC. Both inputs may be connected to two separate sources at one time. See Figure 2. Select the desired source using Digital Source Selector Switch (A)

Using your favorite analog interconnect, connect the left and Right RCA Audio Outputs (H) to a corresponding left and right line-level input on

your preamplifier, integrated amplifier or receiver. See Figure 2.

Plug the AC power cord of the TransDAC into an AC outlet. Once the TransDAC is plugged in, the unit is receiving power and is ON. It is safe to leave the TransDAC plugged in, unplug it for extended periods of non use.

Turn on digital source(s) and amplifier(s) and start listening to your favorite pieces of music.

Figure 1 - Align socket pins to corresponding holes and push together firmly.

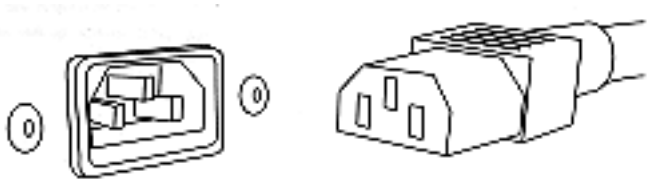
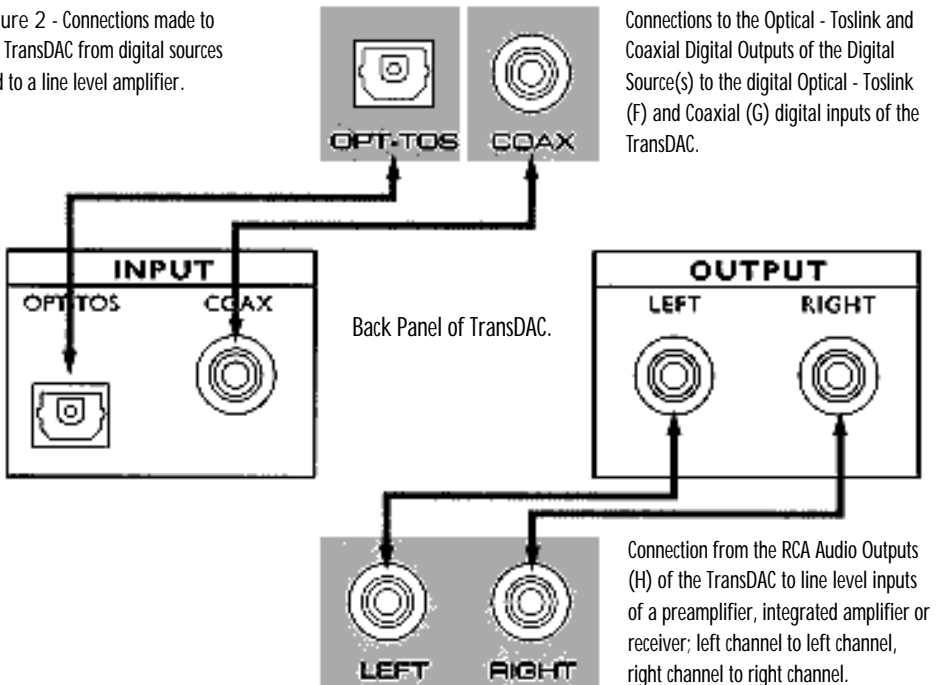


Figure 2 - Connections made to the TransDAC from digital sources and to a line level amplifier.



Connections to the Optical - Toslink and Coaxial Digital Outputs of the Digital Source(s) to the digital Optical - Toslink (F) and Coaxial (G) digital inputs of the TransDAC.

Connection from the RCA Audio Outputs (H) of the TransDAC to line level inputs of a preamplifier, integrated amplifier or receiver; left channel to left channel, right channel to right channel.

LIMITED FIVE YEAR WARRANTY

Sonic Frontiers, Inc. warrants to the purchaser that each TransDAC is free of manufacturing defects for a period of five (5) years from the date of purchase. To receive this warranty, the original purchaser must mail to Sonic Frontiers, within thirty (30) days from date of purchase, the enclosed Warranty Registration Card completed. Sonic Frontiers, Inc. will then validate the warranty to the original purchaser. This warranty is subject to the following conditions and limitations:

1. Warranty applies only to the original purchaser.
2. This warranty is void and inapplicable if the product has been handled other than in accordance with the instructions in this Owner's Manual, abused or misused, damaged by accident or neglect or in being transported, or the defect is due to the product being tampered with, modified or repaired by anyone other than Sonic Frontiers, Inc. or an authorized Sonic Frontiers' repair depot.
3. Warranty does not cover normal maintenance.
4. Sonic Frontiers, Inc. shall not be responsible in anyway for consequential or indirect damages or liabilities resulting from the use and operation of the product covered herein or resulting from any breach of this warranty or any implied warranty relating to said product.

During this period, Sonic Frontiers, Inc. will repair or replace any defective components free of charge. A Return Authorization (RA) Number is required before any product is returned to our factory for any reason. This number must be visible on the exterior of the shipping container(s) for Sonic Frontiers to accept the return.

Units shipped to us without a Return Authorization Number or without a visible RA Number on the exterior of the shipping containers will be returned to the sender, freight collect.

Units to be repaired by Sonic Frontiers, Inc. must be sent shipping and insurance prepaid by the original purchaser in the original packing material. A returned product should be accompanied by a written description of the defect. **Repaired units will** be returned by Sonic Frontiers, Inc. shipping and insurance prepaid. All other warranties or conditions either written or implied are void.

SAFETY INSTRUCTIONS

1. Water and Moisture - This product should not be used near water. Do not expose this product to rain or moisture to prevent fire or shock hazard.
2. Heat - This product should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances which produce heat.
3. Power Sources - This product should be connected to an AC power source of the same rated voltage. The engine shipping containers will stipulate the AC voltage this unit car operate on.
4. Cleaning - A regular dusting with a soft, non-abrasive cloth will generally keep the finish of the faceplate and chassis looking like new. At no time should you allow any liquid to come in contact with the TransDAC; it may run into the electronic circuitry and cause damage which will not be covered under your warranty.
5. Servicing - Do not open this product. No user serviceable parts inside. Refer servicing to an authorized service technician.
6. Non Use Periods - The power cord of this product should be unplugged from the outlet when left unused for an extended period of time.

DISCLAIMER OF LIABILITY

Under no circumstances does Sonic Frontiers, Inc. assume liability or responsibility for injury or damages sustained in the use or operation of this equipment or for damages to any other equipment connected to it, Sonic Frontiers, Inc. reserves the right to make design changes or improvements without the obligation to revise prior versions. All specifications are subject to change without notice.

Note:

We recommend that you retain all of the packing material and shipping boxes for your TransDAC. They are custom designed to prevent shipping damage from occurring. Sonic Frontiers, Inc. will accept no responsibility for any damage occurring to an TransDAC that is shipped in packing material other than the original Sonic Frontiers' packing material.

The Sonic Frontiers TransDAC - big performance in a small package - and at a small price.

Designing a budget conscious product can be much more difficult than designing a cost-no-object, state-of-the-art product. Cost considerations force compromises in a design that are not necessary with an unlimited budget. Only by careful testing and listening can it be determined where design compromises cause the least sonic penalty, and more importantly, where any compromise is intolerable. This extra care taken to develop the Sonic Frontiers TransDAC proved worthwhile. This modest unit boasts an exceptionally musical sound.

Starting with the power supply, the TransDAC detachable power cord runs through an AC input RFI/EMI filter to clean up the power source and free it of noise, then feeding a potted toroidal power transformer, chosen for its minimum stray magnetic fields and quiet operation.

At the heart of the digital section is two 20 Bit Burr-Brown PCM 1702 DAC modules (one per channel).

These chips offer low power consumption, low heat dissipation and a better low-level linearity than the Burr Brown PCM 63, and can be found in digital processors five times the price of the TransDAC.

The departure from tubes in the analog output stage is a new approach for Sonic Frontiers. Analog Devices AD844 and AD847 high speed op amps are implemented to bring the converted digital signal to line level signal. Small in size and power use, the output stage easily fits in a smaller, economical chassis while delivering a high level of performance.

The Sonic Frontiers TransDAC is a unique addition to the growing market of budget DACs. As with all Sonic Frontiers products the TransDAC offers strong value and extreme quality while delivering a high level of musicality.

TECHNICAL SPECIFICATIONS

Input Receiver	Crystal CS8412
Digital Filter	NPC5813APT 8X Oversampling
D/A Converters	Two 20 Bit Burr-Brown PCM 1702PJ
Frequency Response	DC to 20 kHz +0 -0.25 dB
S/N Ratio	105 dB Unweighted
Crosstalk	< -1 00 dB 20 Hz to 20 kHz
THD + N	<0.01%

Digital Inputs	Coaxial (RCA), Optical Toslink
Output Voltage	1.969 V RMS
Output Stage	Analog Devices AD844 & 847 High Speed Op Amps
Analog Outputs	1 Pr. Single-Ended RCA
Dimensions	9.5" Wide x 7" Deep x 2" High (24 cm x 17.8 cm x 5 cm)
Weight	4.5 lb (2.1 kg)
Warranty	5 Years Parts and Labour



BREAKING THE SOUND BARRIER