

# ***DTI***

***Dual Transformer / Isolator***

Artcessories



## **User's Manual**





## IMPORTANT SAFETY INSTRUCTION – READ FIRST



This symbol, whenever it appears, alerts you to the presence of uninsulated dangerous voltage inside enclosure-voltage that may be sufficient to constitute risk of shock.



This symbol, whenever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

**Read Instructions:** Retain safety and operating instructions for future reference. Heed all warnings printed here and on the equipment. Follow the operating instructions printed in this user guide.

**Do not open:** There are no user serviceable parts inside. Refer any service work to qualified technical personnel only.

**Grounding:** Only connect the unit to equipment with properly grounded mains power. Do not defeat the grounding and polarization means of the power cord plug of the connected equipment. Do not remove or tamper with the ground connection on the power cord of the connected equipment.

**Environment:** Protect from excessive dirt, dust, heat, and vibration when operating and storing. Avoid tobacco ash, drink spillage and smoke, especially that associated with smoke machines.

**Handling:** Protect the controls from damage during transit. Use adequate padding if you need to ship the unit. To avoid injury to yourself or damage to the equipment, take care when lifting, moving or carrying the unit.

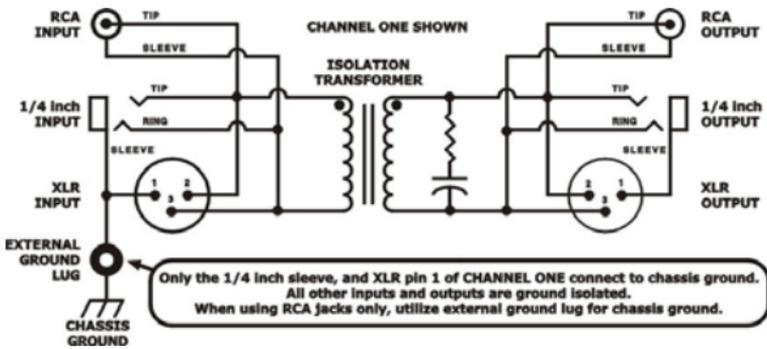
**Servicing:** Refer servicing to qualified technical personnel.

**Installation:** Install the unit in accordance with the instructions printed in the user guide.

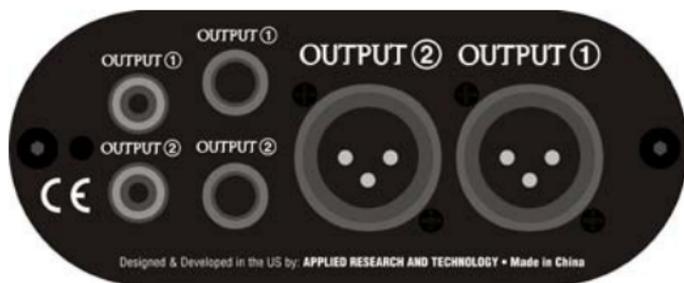
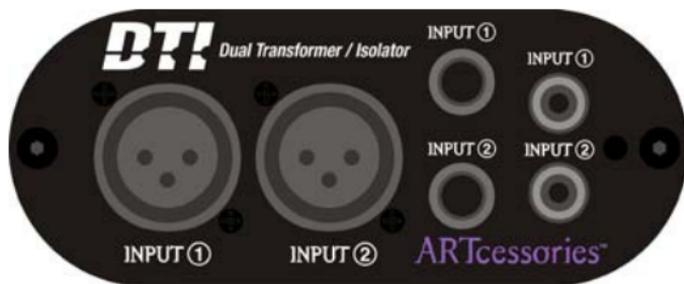
## **INTRODUCTION:**

Thanks for purchasing Applied Research and Technology's Dual DTI. The DTI (Dual Transformer/Isolator) is a high quality totally passive audio interface that uses a pair of high performance transformers to totally separate input and output signal grounds, thereby isolating two systems and reducing hum and ground-loop noise. The DTI's audio transformers have an extremely flat and wide frequency response and can handle high signal levels while maintaining an isolated balanced output. This gives the DTI a very clean and neutral sound with a wide variety of signal sources. The transformers are wound for 1:1 unity gain and are designed to be used with impedances from 600 ohms to 100 kohms.

What further sets the DTI apart from other lesser isolation boxes is it's connection versatility. We have provided XLR, 1/4-inch phone, and RCA type phono connections on all inputs and outputs. This allows the DTI to easily fit into virtually any audio system and breathe clean patch point between all types of the systems.



## Signal Flow Chart



## **SPECIFICATIONS:**

<b>Frequency Response:</b>	10Hz-50kHz +/- .5dB @ +4dBu
<b>THD:</b>	.01% Typical @ 1kHz, +18dBu, <.05% @ 100Hz, +24dBu
<b>Insertion Loss:</b>	.4dB @ 100k Ohm load, 5.5dB @ 600 Ohm load
<b>Input Connections:</b>	XLR female balanced, 1/4-inch TRS balanced / unbalanced, and RCA jacks
<b>Output Connection:</b>	XLR male balanced, 1/4-inch TRS balanced / unbalanced and RCA jacks
<b>Power requirement:</b>	Passive
<b>Dimensions HxWxD(in):</b>	1.75 x 4.2 x 3.5
<b>HxWxD(mm) :</b>	44.5 x 107 x 89
<b>Weight (lbs/kg):</b>	.75 / .34

## **WARRANTY INFORMATION:**

### **Limited Warranty (USA only)**

Applied Research and Technology will provide warranty and service for this unit in accordance with the following warrants:

Applied Research and Technology, (ART) warrants to the original purchaser that this product and the components thereof will be free from defects in workmanship and materials for a period of **three** years from the date of purchase. Applied Research and Technology will, without charge, repair or replace, at its option, defective product or component parts upon prepaid delivery to the factory service department or authorized service center, accompanied by proof of purchase date in the form of a valid sales receipt.

### **Exclusions**

This warranty does not apply in the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs. This warranty is void if the serial number is altered, defaced, or removed.

ART reserves the right to make changes in design or make additions to or improvements upon this product without any obligation to install the same on products previously manufactured.

ART shall not be liable for any consequential damages, including without limitation damages resulting from loss of use. Some states do not allow limitations of incidental

or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific rights and you may have other rights, which vary, from state to state. The warranty terms listed above are only valid within the United States of America. For units purchased outside the United States, an authorized distributor of Applied Research and Technology will provide service. For information on warranty and service policies outside of the U.S., please contact your local distributor.

Please fill in the following information for your reference:

Date of purchase: \_\_\_\_\_

Purchased from: \_\_\_\_\_

## SERVICE:

The following information is provided in the unlikely event that your unit requires service.

1. Be sure that the unit is the cause of the problem. Check to make sure that the unit has power supplied, that all cables are connected correctly, and that the cables themselves are in working condition. You may want to consult with your dealer for assistance in troubleshooting or testing your particular configuration.
2. If you believe that the ART unit is at fault, go to [www.artproaudio.com](http://www.artproaudio.com). Select "Support", then "Return Authorization Request" to request a return authorization number.
3. If you are returning the unit for service, pack the unit in its original carton or a reasonable substitute. The original packaging may not be suitable as a shipping carton, so consider putting the packaged unit in another box for shipping. Print the RA number clearly on the outside of the shipping box. Print your return shipping address on the outside of the box.
4. Include with your unit: a note with the RA number and your contact information, including a return shipping address (we cannot ship to a P.O. box) and a daytime phone number, and a description of the problem, preferably attached to the top of the unit. Also include a copy of your purchase receipt.





**[www.artproaudio.com](http://www.artproaudio.com)**

**E-mail: [support@artproaudio.com](mailto:support@artproaudio.com)**

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**DTI**

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