

# HeadAmp4

*Four Channel Headphone Amplifier*

## 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 DJ HeadAmp4. The HeadAmp4 is a simple device which provides 4 channels of amplification, each with individual volume controls capable of directly driving up to 8 headsets simultaneously.

## **FEATURES:**

- 4 Output channels each with individual volume control.
- Stereo 1/4" and 1/8" inputs (wired in parallel) can be connected to any line-level source or headphone output.
- Four stereo 1/4" and four 1/8" headphone outputs.
- Power "On" LED.

## **INSTALLATION:**

Connect the included power adaptor to the HeadAmp4 input jack and plug the adaptor into an appropriate AC power outlet.

Connect the stereo line-level output or headphone output from the mixer, tape deck, CD player, another headphone amplifier, etc. to the HeadAmp4 stereo input using a low noise stereo T/R/S (Tip, Ring, Sleeve) patch cord.

A Monaural source, such as a mixer's monitor output, can be connected to the HeadAmp4 input by using a mono T/S to stereo T/R/S patch cord or adaptor. (The Stereo T/R/S plug would have the Tip and the Ring tied together so that the same mono signal is input to both the left and right channels,. With an unmodified stereo cord attached, sound will be present in one ear only.

Connect the headphones to the output jacks and adjust the controls as required.

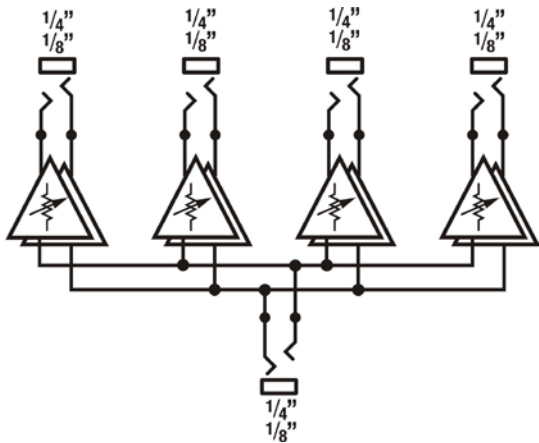
## **APPLICATIONS:**

Offering a superb level of The ARTcessories HeadAmp4 is a simple, cost effective solution for any studio requiring up to four additional channels of headphone amplification, each with individual volume control. Ideal for virtually any home or project studio, the HeadAmp4 easily adds additional headphone outputs to any mixer, computer audio interface, workstation, iPod, media player or laptop without creating any additional load on the existing headphone source. Capable of driving up to eight sets of headphones using a combination of 1/4-inch and 1/8-inch TRS connections, the HeadAmp4 can easily accommodate a variety of headphone models with varying impedances. With up to 20dB of additional gain, input signals to the HeadAmp4 can be taken from any line level or amplified headphone source.

The HeadAmp4 can even be driven from other headphone amplifiers, including other HeadAmp4's when creating a multi-unit distribution network. Multiple HeadAmp4's can be connected to a single source using the 1/4-inch and 1/8-inch TRS parallel inputs.

The HeadAmp4 is the ideal headphone distribution and control solution for complex recording studio environments, assisted listening systems, education workstations and can easily be used as a stereo distribution amplifier for commercial PA installations. The compact stackable chassis design and all-metal construction ensure long-term reliability and convenient

installation of the HeadAmp4 for use in any studio or commercial audio application. sound quality.



Signal Flow Chart

## **SPECIFICATIONS:**

|                              |                          |
|------------------------------|--------------------------|
| <b>Maximum Input Level:</b>  | +14dBu                   |
| <b>Input Impedance:</b>      | 90.9k Ohms               |
| <b>Maximum Output Level:</b> | +14dBu                   |
| <b>Maximum Gain:</b>         | 20dB                     |
| <b>Output Impedance:</b>     | 47 Ohms (each output)    |
| <b>Frequency Response:</b>   | 20 - 20 kHz              |
| <b>S/N Ratio:</b>            | > 90dB (ref 0dBu)        |
| <b>THD:</b>                  | < 0.01%                  |
| <b>IMD (SMPTE):</b>          | < 0.01%                  |
| <b>Power:</b>                | 12vDC (Adapter Included) |
| <b>Dimensions HxWxD(in):</b> | 1.85 x 4.6 x 4.1         |
| <b>HxWxD(mm):</b>            | 47 x 117 x 104           |
| <b>Weight(lbs/kg):</b>       | 1.35 / 0.61kg            |

**Note: 0dBu = 0.775Vrms**

## **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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**HeadAmp4**

**HA4-5004-101**

**V1.1**