

ART Model 406 Six Channel Headphone Amplifier



The ART Model 406 Six Channel Headphone Amplifier addresses the basic requirements for professional headphone mixing. It's a great processor for professional, project and home studio applications. It has an output and level control for each set of headphones, and a stereo input for connecting the program source.

Headphone Mixing Made Simple

The three basic requirements for professional headphone mixing are; (1) an output for each set of headphones, (2) a level control for each set of headphones, and (3) a stereo input for connecting the program source (mixer, CD player, tape deck, etc.). But there may be other requirements. (4) A second stereo source may need to be connected and mixed with the stereo program perhaps added background tracks. (5) It may also be necessary to insert a specific audio source into a specific headphone channel possibly a vocalist wants to hear himself or herself alone. (6) You may find it necessary to connect a number of mono sources rather than one or two stereo sources and have some degree of control over their relative volumes perhaps the recordist or director needs to address everyone. The trick is to make this headphone mixer compact and simple to use.

Specifications

- Input Impedance: 100K ohms
- Max Input Level: +18dBV
- Max Gain: 20dB per channel
- Max Output: 300mW per channel
- Frequency Response: 20-30kHz
- Signal-to-Noise: 90dB
- THD & IMD: <0.008%
- Power Requirements: 120VAC / 50-60Hz, or 240VAC / 50Hz, 15VA
- Dimensions: 19 inch x 1.75 inch x 6.0 inch (480mm x 44.5mm x 152mm)
- Weight: 5.5 lb. (2.5 kg)

Features

- Six headphone channels each with its own LEVEL control and headphone OUT jacks
- An INSERT jack for each channel to isolate it for specific input signals
- Single ¼"inch STEREO Input (front) or dual L + R ¼" inch inputs (rear)
- L and R AUXILIARY 1/4 inch inputs (rear) which can be mixed with the above
- PAN control (front) also regulates L/R relative input levels in mono mode
- MONO/STEREO push-button (front) adds versatility
- Power LED
- Single U rack-mount format

Usage:

- a) Verify proper voltage selection on the IEC style power connector for your location. Connect the AC cord to a grounded AC outlet.
- b) Connect the STEREO INPUT (front) to the source, or use two, shielded, mono (TS) cables to connect the L and R MAIN (rear) Inputs to the source.
- c) If needed, connect a second stereo source to the L and R AUX input jacks (rear) using two shielded, mono (TS) patch cables.
- d) To connect a mono source, depress the MONO/STEREO button on the front panel of the 406, then connect the source to the L (mono) MAIN or AUX Input.
- e) It is possible to connect up to four mono sources with the 406 in MONO mode and the PAN control acts as a relative volume level control between signals connected to the R inputs versus the L inputs. With the 406 in STEREO mode the PAN control regulates L/R headphone balance as usual.
- f) The INSERT jacks permit connecting a stereo source directly and exclusively to any headphone channel. Always plug a stereo (TRS) ¼" inch jack into these inputs so that sound can be present in both ears (these jacks are not affected by the Mono/Stereo button). When these jacks are in use, the MAIN and AUXILLIARY L and R inputs are disconnected. Only the INSERT signal goes to that corresponding OUT jack.
- g) Connect stereo headphones to the OUT jacks on the front panel and adjust the LEVEL controls as desired. DO NOT plug a mono jack into any OUT jack as this may damage the unit.

WARRANTY INFORMATION

Limited Warranty

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

Applied Research and Technology, (A R T) 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 **one** year 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.

A R T 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.

A R T 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.

For units purchased outside the United States, an authorized distributor of Applied Research and Technology will provide service.

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 all cables are connected correctly, and the cables themselves are in working condition.
- 2) If you find the unit to be at fault, write down a complete description of the problem, including how and when the problem occurs. Please write down a description of your complete setup before calling Customer Service.
- 3) Call the factory (585-436-2720) for a Return Authorization (RA) number.
- 4) Pack the unit in its original carton or a reasonable substitute. The packing box is not recommended as a shipping carton. Put 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.
- 5) Include with your unit: a return shipping address (we cannot ship to a P.O. Box), a copy of your purchase receipt, a daytime phone number, and a description of the problem.
- 6) Ship only your unit (keep your manual!) to:

APPLIED RESEARCH AND TECHNOLOGY

215 TREMONT STREET
ROCHESTER, NEW YORK 14608
ATTN: REPAIR DEPARTMENT
RA# _____

- 7) Contact our Customer Service department at (585) 436-2720 for your Return Authorization number or questions regarding technical assistance or repairs. Customer Service hours are 9:00 AM to 5:30 PM Eastern Time, Monday through Friday.

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