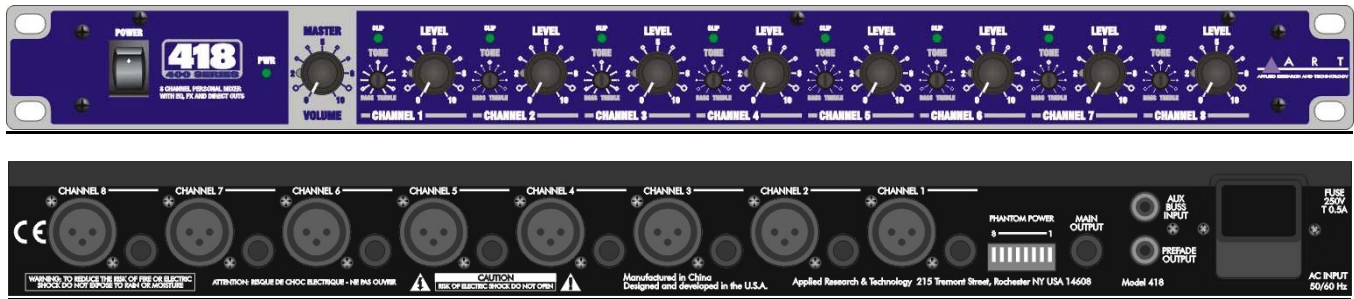


# ART Model 418 Eight Channel Personal Mixer with EQ and Direct Outs



The ART Model 418 Eight Channel Personal Mixer provides eight channels of basic mic/line mixing capability in a convenient, easy-to-use rack format. The unit features a selection of XLR mic and 1/4 inch unbalanced line inputs with LEVEL and TONE controls. Additionally, phantom power is also available, and is switch-selectable on each mic input. Each line input can be converted internally to a line output for that channel.

Two 418's can be patched together via their Pre-Fade Out and Aux in jacks so that one is slaved to the other for up to 16 channels with one master level.

## Specifications

- Input Impedance: 600 ohms Mic, 18K ohms Line, 10k ohms Aux. Bus In
- Max. Input Level: -23dBV Mic, +22dBV Line
- Phantom Power: 12VDC
- Output Level: +17dBV max
- Output Impedance: 51 ohms
- Max. Gain: 69dB Mic, 26dB Line
- Signal to Noise: 106dB max
- THD: <0.003%
- CMRR: >52dB (mic)
- Phase Shift: <10 degrees, 20 20kHz
- Power Requirements: 120VAC / 50-60Hz, or 240VAC / 50 Hz, 15VA
- Dimensions: 19 inch x 1.75 inch x 6 inch (480mm x 44.5mm x 152mm)
- Weight: 6.3 lb. (2.9kg)

## Features

- Eight mic/line channels each with its own LEVEL and TONE control
- Eight sets of balanced XLR mic inputs and 1/4" inch unbalanced line inputs
- Eight PHANTOM POWER DIP switches, one for each mic input
- LEVEL MASTER 1/4 inch balanced MAIN OUT jack
- An RCA-type PRE-FADE OUT jack (not regulated by the MASTER VOLUME) can be connected to another 418 via its AUX BUS IN jack
- An RCA-type AUX BUSS IN jack lets you insert the output of another 418

## 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 low-impedance mics to the XLR sockets.
- c) Connect shielded unbalanced line inputs to the 1/4" inch jacks.
- d) For mic channels requiring phantom power (for condenser mics) set the appropriate PHANTOM POWER DIP switches in the down position. Do not engage phantom power on a channel unless it is for a condenser microphone.
- e) Switch on the power and set the MASTER LEVEL to the 1/2 way setting, then adjust the channel LEVEL controls as required for the best mix and level. Adjust the channel TONE controls for the desired balance of lows and highs. Center setting is approx. neutral.
- f) Re-adjust the MASTER LEVEL as required for best signal level.
- g) To inter-connect two 418s for 16 channels, run a shielded, unbalanced patch cable from the PRE-FADE OUT jack on mixer A to the AUX BUS IN jack on mixer B. Note that only the MASTER LEVEL on mixer B will now function.
- h) To convert the line input on a channel to a line output, unplug the 418's AC cord from the wall and remove the top plate. Inside you will see a row of jumpers. Move the jumper for the desired channel to pins 2 & 3. Now that channel's line input is converted to a line output and may be connected to the input of another mixer. Do not connect the output of a mixer or any other signal source here now or the unit may sustain damage. Be sure to replace the lid before plugging the unit back into the AC socket.

# 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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