

# ART – MX622

## Six Channel Stereo Mixer with EQ and Effects Loop

### OPERATION MANUAL



### INTRODUCTION

The MX622 is a versatile mixer combining three balanced microphone or line level inputs with three stereo line inputs into a single stereo line level mix. Each mono balanced XLR input includes fully variable Input gain, Mic/Line switch, Clip indicator, and selectable 15 Volt Phantom power. An external effects loop section provides a mono Send from the three Mic/Line channels to external equipment and stereo Returns with Effects Level and In/Out switch. Three stereo line level inputs are also provided via RCA type jacks with separate Level controls for each stereo pair. Stereo Record output RCA jacks provide full-level signal of the entire mix at all times. Main outputs are stereo balanced ¼" TRS with Master Level and full range Bass/Treble equalization. The built in power supply and single high 19" rack mount format allows for easy installation and reliable operation.

### FEATURES:

- Three balanced XLR inputs with separate Mic/Line switch, Level control and Clip Indicator
- Three pairs of RCA stereo inputs with separate Level controls
- Selectable 15 Volt Phantom power for each Mic channel
- Balanced ¼" TRS Main outputs with Master Level control
- Versatile Bass and Treble equalization on Main outputs
- Stereo Record Out RCA jacks
- Effects Loop with Effects Level control and In/Out switch
- ¼" Effects Send with stereo Returns

### SPECIFICATIONS:

|                        |  |
|------------------------|--|
| Input Connections:     | XLR-F balanced (3), ¼" unbalanced (2), RCA (6)                                 |
| Output Connections:    | ¼" TRS balanced (2), ¼" unbalanced (1), RCA (2)                                |
| Input Impedance:       | 600/22K Ohms Mic/Line XLR inputs, 10K Ohms RCA inputs, 22K Ohms ¼" Efx Returns |
| Output Impedance:      | 50 Ohms ¼" Main outputs, 1K Ohms RCA Record outputs, 100 Ohms Efx output       |
| Maximum Input Level:   | -10dBu/+20dBu Mic/Line XLR inputs, +20dBu RCA line inputs, +20dBu Efx inputs   |
| Maximum Output Level:  | +24dBu balanced Main outputs, +20dBu RCA Record outputs, +20dBu Efx output     |
| Phantom Power:         | +15 Volts DC, regulated low noise  |
| Maximum Gain:          | 56dB/26dB Mic/Line, 26dB RCA inputs  |
| Signal to Noise Ratio: | >90dB typical  |
| THD:                   | .01% Typical   |
| Equalizer Range:       | +/-12dB @ 100Hz & 10KHz  |
| Power Requirements:    | USA – 105 to 125 VAC / 50-60Hz, 15 Watts typical                               |
| Dimensions: (HxWxD in) | 1.75 x 19.0 x 6.0  |
| Dimensions: (HxWxD mm) | (44.5 x 483 x 152)   |
| Weight:                | 6.2 lbs. (2.8kg)   |

### OPERATION

- Verify proper voltage selection on the IEC style power connector for your location. Connect the AC cord to a grounded AC outlet.
- Connect Mics or balanced Line inputs to the XLR sockets.
- For Mic channels requiring phantom power (for condenser mics), move the DIP switch to the down position to activate phantom power for each XLR input.
- Set each Mic/Line switch as required for the type of input signal level.
- Connect stereo signal sources (CD, tape/MP3 player, etc.) to input channels 1, 2, and 3 using RCA type unbalanced cables.
- To patch-in effects, using three shielded TS (unbalanced) cables, connect the Efx Loop Send jack to the input of the effects unit and the unit's stereo outputs to the Left and Right Efx Loop Return jacks. Once the MX622 is connected to the main mixer, tape deck, computer interface, or power amplifier, apply a test signal, set the Efx Loop In/Out switch on the front panel to the IN position, and adjust the Efx Level control for the desired effects intensity.
- The Left and Right Efx Loop Return jacks may alternately be used as a stereo line input with its own level control and In/Out switch.
- Connect either the ¼" balanced Left and Right Main Output jacks or the RCA Record Out jacks to the input of the mixer, tape deck, computer, or power amplifier with the appropriate balanced or unbalanced, shielded cables.
- Switch on the power and set the Master Level to the ½ way setting, then adjust the input channel Level controls as required for the best mix and level while checking the Mic/Line channel CLIP LEDs for activity. Turn down any channel with CLIP activity until the LED is on during extreme peaks only.
- Adjust BASS and TREBLE controls for the desired balance. The mid position has flat frequency response.
- Re-adjust the Master Level as required for best signal level.

## WARNINGS

All operating instructions should be read before using this equipment.

To prevent the risk of electrical shock, do not remove the cover or the back.

There are no user-serviceable parts inside. Please refer servicing to a qualified service technician.

Do not expose this unit to rain or moisture or to heat sources such as radiators, stoves, or other items that generate excessive heat.

This unit should be cleaned only with a damp cloth. Do not get moisture inside the unit.

When moving this equipment, it should be placed in its original carton and packing, to reduce the risk of damage in transit.

## 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, (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.

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 the unit has power, all cables are connected correctly, and 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 the ART unit is at fault, go to [www.artproaudio.com](http://www.artproaudio.com). You may contact Customer Service for more assistance, or directly request a Return Authorization for service in the "resources" area of the website.
- 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.
- 4) Include, with your unit, a note with the RA number and your contact information including a daytime phone number, preferably attached to the top of the unit.