

## INTERNATIONAL LIMITED WARRANTY

ARX Systems (ARX) warrants to the first purchaser of any ARX equipment that it is free from defects in materials and workmanship under normal use and service. ARX's sole obligation under this warranty shall be to provide, without charge, parts and labour necessary to remedy defects, if any, which appear within twelve (12) months from date of purchase, and for a further twelve (12) months supply parts only.

**This is our only warranty.** It does not cover finish or appearance items, burned voice coils, or if the equipment has been, in ARX's sole judgement:

- Subjected to misuse, abuse, negligence or accident;
- Repaired, worked on, or altered by persons not authorized by ARX;
- Connected, installed, adjusted or used for a purpose other than that for which it was designed. This includes running a speaker system with the ISC leads disconnected, or with a non-ARX crossover, or with the wrong processor.

This warranty gives you and us specific legal rights and you may also have other rights which may apply.

### **Warranty Service Procedure**

Should it become necessary to have your equipment serviced under the terms of the warranty, please follow these steps:

1. Call your ARX distributor for a Return Authorization (RA) number;
2. **Carefully** repack the unit, in its original packaging where possible, including a note with a description of the problem, and a copy of the receipt showing date of purchase. Attach these to the actual unit itself. Don't forget to write your name and address clearly, and include a phone number where you can be contacted during normal business hours. Make it easy for our service technicians to contact you if they have a question. Also, use **plenty** of packing material - better to be safe than sorry.
3. Send the unit freight prepaid to ARX Systems, at the address given you with your RA number. We will pay the return freight when the serviced unit is returned to you.

We strongly recommend you insure the package. We can't fix it if it gets lost! Send it by UPS, Fedex, or any similar service that can track the package. Parcel Post is *not* recommended

*If Warranty Registration Card is missing, please write to ARX in the country of purchase, stating model and where purchased, or to ARX, PO Box 15, Moorabbin, Victoria 3189, Australia.*

*Or you can Email us at: [info@arx.com.au](mailto:info@arx.com.au)*

# **Installer™ Series**

## **MIXX and MIXXMaster**

## **OWNER'S MANUAL**



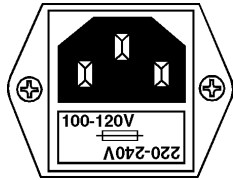
ARX Systems Pty Ltd, PO Box 15,  
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Phone: (03) 9555 7859 Fax: (03) 9555 6747  
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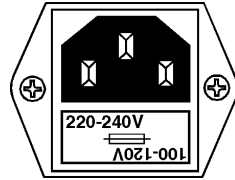
## IMPORTANT - PLEASE READ THIS FIRST



This is a dual voltage unit. It is essential that you check that the voltage on the fuseholder cover below the AC connector on the rear of the chassis is set correctly before connecting it to AC power.



THIS IS SET FOR  
100 V AC TO 120 V  
AC OPERATION



THIS IS SET FOR  
220 V AC TO 240 V  
AC OPERATION

To change, pull fuseholder out and rotate 180°, then push in again. Do not insert power cable into unit until voltage has been correctly set. Do not plug power cable into AC power until voltage has been correctly set

### WARNING SYMBOLS USED ON THIS EQUIPMENT



This symbol is intended to alert you to the presence of important operating instructions contained in this owner's manual



This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



This symbol indicates that a Slow Blow fuse is used in this equipment. Replace with same type and value only

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK OF UNIT NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED PERSONNEL		
<b>WARNING</b>		
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.		
<b>ATTENTION</b>		
RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR		



Complies with 89/336/EEC EMC Directive, amended by 92/31/EEC and 93/68/EEC and meets the following standards: EN 55013 : 1990, Sections 3.2 and 3.5 EN 55020 : 1988, Sections 4.3, 5.4, 6.2, 7.0, 8.0.  
Complies with Australian Standard AS/N25 1053

## Specifications

**MIXX:** 4 Channel Mic/Line Mixer

**MIXXMASTER:** 2 channel Mic/Line plus 4 channel Line Mixer

### Inputs

Microphone inputs: Electronically Balanced on XLR Connectors; nominal 2 K Ohm impedance

Stereo Line/Aux Inputs: Hi Z Buffered inputs on ¼" Jacks (*MIXMaster*)

### Mic Priority (*MIXMaster*)

Switchable Channel 1 override; 20dB attenuation to all other channels

### Input Gain

Variable 20dB to 60dB on Mic/Line channels by rear panel trim control, plus Mic/Line input switch (-20dB pad)

### Channel Level

∞ to +6dB Gain

### Channel Pan

True L & R constant level Control

### Mic and Line Channel EQ

Low 100Hz 15dB Cut/Boost Shelving

Mid 800HZ 15dB Cut/Boost Bell, Broad Q

High 10KHz 15dB Cut/Boost Shelving

### Frequency Response

20-20KHz ±1dB

### Distortion

Below .005% 100Hz to 10KHz

### Master Outputs Signal/Noise

MIXXMaster -90dB unweighted

MIXX -84dB unweighted

### Phantom Power

+48VDC switchable on all Microphone Inputs

### Mic Channel Outputs

150 Ohms Line Level Balanced TRS jack connector

### Master Outputs

Electronically Balanced XLR 300 ohms Line Level

### Max Output Level

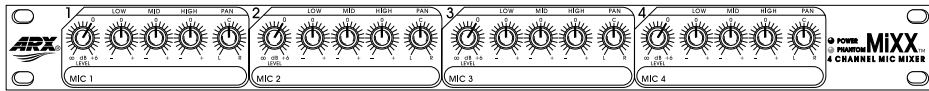
+20dB

### Open Buss Outputs

Virtual Earth Signal Level, 5 pin DIN connector with shielded cable

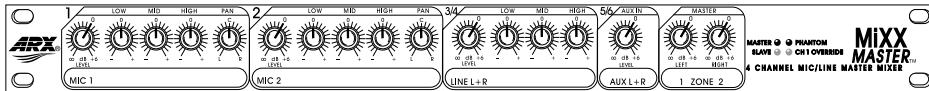
### Power

100-120/220-240 VAC 50/60HZ 8VA (8 watts) 3 pin IEC connector with removable cable



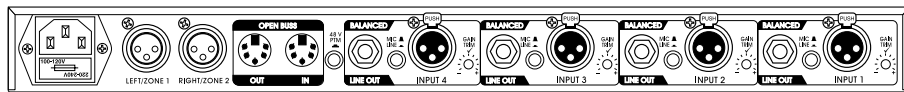
### MIXX Front panel controls

- Level controls for channels 1, 2, 3 and 4
- Low, Mid and High EQ controls
- Pan controls
- Status LEDs
- Numbered marker panels for labelling channel assigns



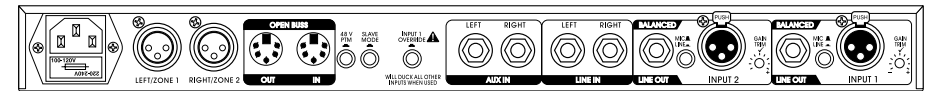
### MIXXMaster Front panel controls

- Level controls for microphone channels 1 and 2
- Low, Mid and High EQ controls for microphone channels, and Line 1 and 2 channels
- Pan controls for microphone channels, and Line 1 stereo channel
- Level controls for Line 1 stereo channel, and Aux1 stereo channel
- Status LEDs
- Numbered marker panels for labelling channel assigns



### MIXX Rear Panel Connectors

- Balanced XLR Input socket, one per channel. Pin 2 HOT +, Pin 3 Cold -, Pin 1 GROUND
- Input Mic/Line switch(-20dB pad)
- Gain trim control. 3 indicates optimum standard microphone setting
- Balanced Line Out TRS jack socket. Tip +, Ring -, Sleeve GROUND
- Phantom Power on/off switch to all microphone inputs
- Open Buss In and Out 5 pin DIN connectors. Use shielded cable supplied ONLY
- Left and Right XLR outputs. Pin 2 HOT +, Pin 3 Cold -, Pin 1 GROUND
- IEC 3 pin AC connector and integral fuseholder. Replace fuse with correct value only: 100 - 120 V AC 1 amp, 220-240 V AC 0.5 amp. Please also refer to voltage details on Page 2



### MIXXMaster Rear Panel Connectors

- Balanced XLR Input socket, channels 1 and 2. Pin 2 HOT +, Pin 3 Cold -, Pin 1 GROUND
- Input Mic/Line switch (-20dB pad)
- Gain trim control. 3 indicates optimum standard microphone setting
- Balanced Line Out TRS jack socket. Tip +, Ring -, Sleeve GROUND
- Left and Right stereo Line in 1 and Aux in 1 jack connectors. Tip +, Ring -, Sleeve GROUND. Plugging into just the LEFT Line or Aux input automatically routes the signal into into the Left and Right Master outputs. No 'Y' leads required.
- Input 1 override switch. When switched in, any signal appearing on Channel 1 will automatically override the rest of the system. Ideal for paging and Evac systems. Normally set on the Master unit
- Master/Slave mode switch. Normally set on the Master unit
- Phantom Power on/off switch to all microphone inputs
- Open Buss In and Out 5 pin DIN connectors. Use shielded cable supplied ONLY
- Left and Right XLR outputs. Pin 2 HOT +, Pin 3 Cold -, Pin 1 GROUND
- IEC 3 pin AC connector and integral fuseholder. Replace fuse with correct value only: 100 - 120 V AC 1 amp, 220-240 V AC 0.5 amp. Please also refer to voltage details on Page 2

### Gain Trim

The Gain Trim control is preset at the 3 mark for a typical vocal microphone (for example a Shure SM58), and should be suitable for a wide range of microphones with similar output levels. If you are using a microphone that differs markedly from this norm, then you may need to adjust this control.

Turn it to the RIGHT to increase the sensitivity, for microphones that have a LOWER output, and turn it to the LEFT to decrease the sensitivity, for microphones that have a HIGHER output.

Note: Use a plastic TV type trimmer or a fully insulated screwdriver ONLY.

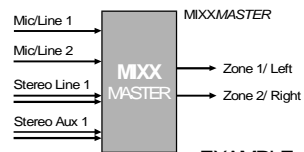
Adjust the gain in small increments. Remember that a little movement is a lot of change.

Pressing the Mic/Line switch IN activates a -20dB pad, making the input suitable for Line levels.

### Applications

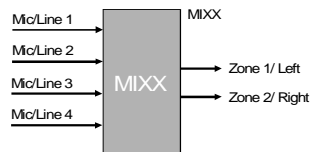
MIXX and MIXXMaster units can be used anywhere that you would use a microphone mixer. For example:

- Sound Reinforcement
- Industrial Paging/Background music systems
- Audio Visual/Multimedia Systems
- Audio for Video sweetening
- Clubs/Gyms/Karaoke/Restaurants
- Studio, Live and Broadcast Submixers
- Mic Pre-amps for digital 8 track recording, using the direct outs on each microphone channel



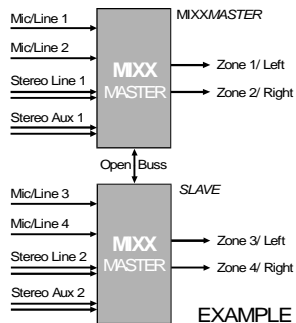
EXAMPLE 1

1 x MIXXMaster gives you:  
 2 Balanced Mic/Line inputs with EQ  
 1 Stereo Line input with EQ  
 1 Stereo Auxiliary Input *Plus*  
 2 Balanced Zone Outputs or  
 1 Stereo line Output



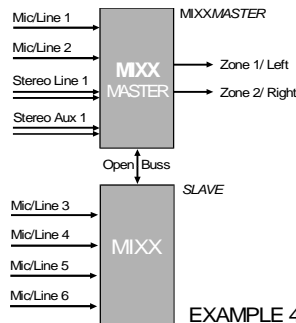
EXAMPLE 2

1 x MIXX gives you:  
 4 Balanced Mic/Line inputs with EQ, *Plus*  
 2 Balanced Zone Outputs or  
 1 Stereo line Output



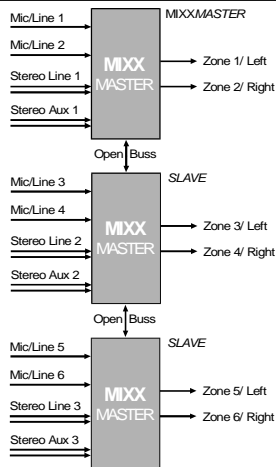
EXAMPLE 3

2 x MIXXMasters, set up as 1 Master and 1 Slave, gives you:  
 4 Balanced Mic/Line inputs with EQ  
 2 Stereo Line inputs with EQ  
 2 Stereo Auxiliary Input *Plus*  
 4 Balanced Zone Outputs or  
 2 Stereo line Output



EXAMPLE 4

1 x MIXXMaster and 1 x MIXX, set up as 1 Master and 1 Slave gives you:  
 6 Balanced Mic/Line inputs with EQ  
 1 Stereo Line input with EQ  
 1 Stereo Auxiliary Input *Plus*  
 2 Balanced Zone Outputs or  
 1 Stereo line Output



EXAMPLE 5

3 x MIXXMasters, set up as 1 Master and 2 Slaves, gives you:  
 6 Balanced Mic/Line inputs with EQ  
 3 Stereo Line input with EQ  
 3 Stereo Auxiliary Input *Plus*  
 6 Balanced Zone Outputs or  
 3 Stereo line Output

## Introduction

Thank you for choosing this ARX MIXX series Mixer. We hope you enjoy using it as much as we enjoyed creating it. As with all ARX equipment, it has undergone extensive factory calibration and 'burn in' before shipping. To ensure continued trouble free use, please familiarise yourself with the contents of this manual before using the MIXX and MIXXMaster.

## About the MIXX series

The MIXX series from ARX consists of two innovative new products using the exclusive new ARX "open buss" architecture. This neat idea allows mixing and zoning systems of any complexity to be easily constructed using only **two** standard products:

- The MIXX 4 channel Microphone mixer
- The MIXXMASTER 4 channel Microphone/Line Mixer.

Each MIXX series product can be used as a stand alone Audio Mixer, but together the MIXX series form a powerful Mixing/Zoning System second to none in user-friendliness, simplicity and total flexibility. Each unit has access on the rear panel to the open buss. Just connect up as many of the MIXX and MIXXMaster units as necessary, to give you the number of channels and outputs you require. MIXX can **easily** be configured to suit your *exact* requirements.

And we even include the leads!

If you are using more than one MIXXMaster, then designate one of them as the Master and the other(s) as Slaves by pressing the rear mounted switch.

Each Microphone and Stereo Line input has 3 way EQ, plus Balanced Low Noise Microphone inputs, Hi Z line inputs and Balanced Line outputs. All Mic Channels also have a direct output, ideal for recording applications.

Switchable Phantom power is available on all Mic Inputs.