

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

CentreMIXX™

Centre Channel Generator

OWNER'S MANUAL



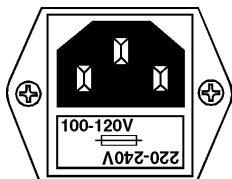
ARX Systems Pty Ltd, PO Box 15,
Moorabbin, Victoria 3189, Australia
Phone: (03) 9555 7859 **Fax:** (03) 9555 6747
International Fax: +61-3 -9555 6747
On the Web: www.arx.com.au
Email: info@arx.com.au



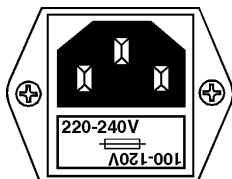
IMPORTANT - PLEASE READ THIS FIRST



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



CAUTION

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

WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT
EXPOSE THIS UNIT TO RAIN OR MOISTURE.

ATTENTION

RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR



Complies with 89/336/EEC EMC Directive, amended by 92/31/EEC and 93/68/EEC; CE 73/23/EEC Low Voltage directive 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

CentreMIXX™ Specifications

<i>Input Impedance (all inputs)</i>	44 KOhm Balanced 22 KOhm Unbalanced
<i>Input Headroom</i>	+24dB
<i>Max Output Level (all outputs)</i>	+24dB
<i>Output Noise (all outputs)</i>	-96 dB Unweighted
<i>Output Impedance</i>	200 Ohm Balanced 100 Ohm Unbalanced
<i>Dynamic Range</i>	120 dB
<i>Frequency Response</i>	10Hz – 20KHz ±0.5 dB
<i>Distortion @ Unity Gain</i>	100 Hz .0035% 1 KHz .0032% 10 KHz .0037%
<i>Input Connectors</i>	Balanced Female XLR
<i>Output Connectors</i>	Balanced Male XLR
<i>Unit Gain</i>	Left and Right Channels Unity
<i>Centre Out</i>	Maximum +10 dB relative to Left and Right Inputs
<i>Centre Level Control</i>	Detented from Infinity through to +10 dB
<i>Aux Input Level Control</i>	+10dB
<i>Aux Input Phase</i>	Switchable 0/180°
<i>Power Requirements</i>	100/120 V AC or 220/240 V AC
<i>Weight</i>	5 lbs/2.2 Kg
<i>Dimensions</i>	19"W x 1¾"H x 6"D 482 x 44 x 155mm

Complete online documentation is available on the ARX website:

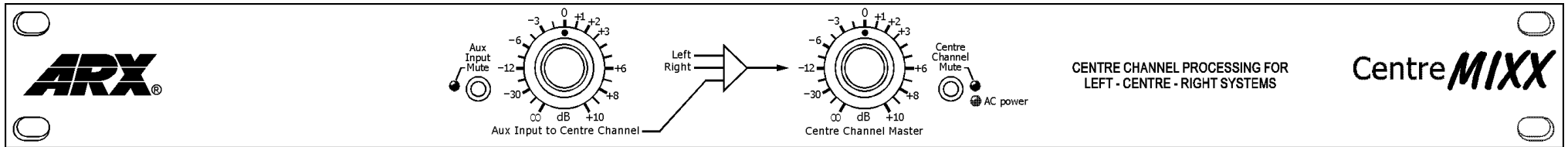
www.arx.com.au/centremixx.htm

Specific queries can be emailed to the factory at info@arx.com.au



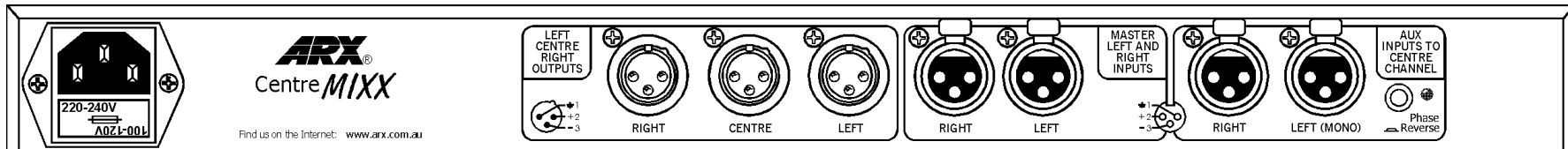
Our policy is one of continuous improvement, and therefore designs may change without notice. However, unless otherwise stated, specifications will always equal or exceed those previously given. ARX® is a Registered Trade Mark of ARX Systems Pty Ltd. BarMIXX™ is a trade mark of ARX Systems Pty Ltd. Any other names and trademarks are used for information purposes only, and no other intent is expressed or implied

Front Panel



- Aux Input Mute switch and status LED
- Aux Input Level control
- Centre channel Master Level control
- Centre channel Master Mute switch and status LED
- AC Power status LED

Rear Panel



- 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
- Left, Centre and Right channels Balanced XLR Outputs wired Pin 1 Ground, Pin 2+ (Hot), Pin 3 – (Cold)
- Left and Right Master XLR Inputs wired Pin 1 Ground, Pin 2+ (Hot), Pin 3 – (Cold)
- Left and Right Aux XLR Inputs wired Pin 1 Ground, Pin 2+ (Hot), Pin 3 – (Cold)
- Aux Inputs Phase Reverse switch and status LED

Architects' and Engineers' Specifications

The unit shall be mounted in a standard 1 RU all steel chassis with extruded aluminium front panel.

Each channel shall have a balanced female XLR input connector and a balanced male XLR output connector mounted on the rear panel.

The Auxiliary input channels shall have a Level trim control on the front panel, variable from infinity through to +10 dB. The Centre Channel Mix control shall also be variable from infinity through to +10 dB. The Left and Right Channel shall have unity Gain through the unit.

The Output Noise shall be -96dB unweighted. Input impedance shall be 44 KOhms (22 KOhms unbalanced), and the output impedance shall be 200 Ohms (100 Ohms unbalanced).

Maximum Output Level shall be +24dB

AC power range shall be switchable 100 to 120V or 220 to 240V AC, and shall be connected to the unit via a standard three pin IEC connector, with built-in fuse and voltage change switch.

The unit shall be the ARX CentreMIXX

Using the CentreMIXX

Setting up your CentreMIXX is very straightforward and intuitive.

Firstly, connect the unit to AC power. **Please Note** that it 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. See **Page 2** for more details on this.

Getting started

1. Turn down all amplifiers and console masters
2. Connect the Left, Centre and Right XLR outputs of the CentreMIXX to their respective amplifiers (or system EQ, crossovers or whatever is next in the signal line to the speakers)
3. Connect the Left and Right Master outputs from the console to the Left and Right Master Inputs of the CentreMIXX. These will pass through the CentreMIXX at unity gain, unaffected by the CentreMIXX settings.
4. Turn up the amplifiers to their normal operating level.
5. Bring up the console Left and Right masters to their normal operating level
6. Adjust the level of the Centre Channel Master control (the Right knob) on the front panel of the CentreMIXX to match that of the Left and Right Masters

For a basic Centre Channel Mix setup that's as far as you need to go. If there is no sound from the Centre Channel, check that the Mute switches on the front of the CentreMIXX are not pushed in!

However you can go much further. One of the primary uses of a Centre channel is as a vocal dominated channel, where you can pan the voice to the centre and spread the music over the Left and Right channels. This is where the CentreMIXX really comes into its own.

1. Take a line from the direct out of the Vocal subgroup on the console and connect it to the Aux Input connector(s) of the CentreMIXX (use the Left input if you're not using stereo vocal subgroups)
2. Adjust the level of the Aux Input control (the Left knob) of the CentreMIXX until you have the desired amount of voice in the Centre Channel
3. Note that on some mixing consoles the signal phase might be inverted relative to the Insert points, Group and Master outputs. If this is the case with your console, push in the rear panel mounted Phase Reverse switch to flip the Aux Inputs phase 180°. If you are unsure, try it anyway - one way will sound much better than the other.

Congratulations - you've just set up the CentreMIXX system.

Introduction

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

About the CentreMIXX

Innovation

Central loudspeaker clusters are now becoming a standard in installations and live sound reinforcement systems. They provide the operator with the ability to centre the voice and acoustic program material, while at the same time retaining the Stereo image across the Left and Right Loudspeakers.

Until the advent of the ARX CentreMIXX, only users of high end mixing consoles equipped with a separate Centre Channel Output were able to easily derive a vocal dominated mono Centre mix.

By using the ARX CentreMIXX, even a very simple system can derive a Centre Channel from a summed mono mix of Left and Right, with a L-R mix accuracy of 0.1 dB

However, where the CentreMIXX really comes into its own is by feeding its Stereo Aux Input with a line from the Vocal subgroup (for example) on the console. This allows you to increase the overall vocal level in the Centre Cluster, putting the voice up front, just where you want it.

On some mixing consoles the signal phase is often inverted relative to the Insert points, Group and Master outputs. To allow for this, we've included a rear panel mounted Phase Reverse switch on the Aux Inputs to ensure phase uniformity at all times.

Centre Channel Gain is adjustable from infinity through to +10 dB, relative to the Main Left and Right inputs, which pass through the CentreMIXX at Unity Gain.

Recommended position for the CentreMIXX in the signal chain is immediately post console, pre system EQ

In short, the ARX CentreMIXX is the unique solution to today's requirements for a Centre Channel mix.