

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, 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, including connection to the incorrect AC voltage.

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.
4. We strongly recommend you insure the package. We can't fix it if it gets lost! Send it by UPS, Fedex, DHL 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

i-Switch+SUBTM

12 Channel plus 4 SUB
Active Line Switcher

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 SINGLE VOLTAGE UNIT. IT IS ESSENTIAL THAT YOU CHECK THAT THE VOLTAGE MARKED ON THE REAR OF THE CHASSIS IS THE SAME AS THE AC POWER COMING FROM THE AC CONNECTOR ON THE WALL, BEFORE CONNECTING IT TO AC POWER.

DAMAGE CAUSED BY CONNECTING TO THE WRONG AC VOLTAGE IS NOT COVERED BY YOUR WARRANTY

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



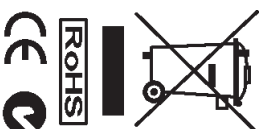
TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK OF UNIT.
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING

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

ATTENTION

RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR



ROHS

CE N1819

Manufactured in Australia

Complies with 89/336/EEC EMC Directive, amended by 92/31/EEC and 93/68/EEC; 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., and EN 60950 : 1994 Low Voltage Directive
Complies with Australian Standard AS/N25 1053

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.

Specifications

Gain

Off to +6dB

Input A and B Impedance

40 KOhm

Input Headroom

+21dB

Outputs 1-12 and SUB Impedance

> 100 Ohm

Output Level (Max)

+26dB

Frequency Response

10Hz – 20KHz ±0.25 dB

Signal to Noise ratio

-96dB Unweighted

-102dB 'A' weighted

Distortion @ Unity Gain

.0025% THD, 0dB @ 1 KHz

Dynamic Range

122 dB

Input Connectors

Balanced Tip-Ring-Sleeve jack, wired Tip

+ Ring -, Sleeve Audio Earth/Ground;

Unbalanced Tip-Ring-Sleeve stereo

(3.5mm) Mini jack wired Tip R, Ring L, Sleeve Audio Earth/Ground;

Output Connectors

Balanced Tip-Ring-Sleeve jack, wired

Tip +, Ring -, Sleeve Audio Earth/

Ground

Status Indicators

Input A or B LEDs,

Outputs 1-12 LEDs

Subwoofer Outputs LEDs

Mute ALL LED

Power Requirements

Zone Specific 100-120 V AC

or 220-240 V AC 50/60 Hz

8VA (8 watts) on 3 pin IEC connector

Weight

5 lbs/2.2 Kg

Dimensions

19"W x 1 1/2"H x 6"D

482 x 44 x 155mm

Complete online documentation is available on our website:

www.arx.com.au/International/ali-switch-sub.htm

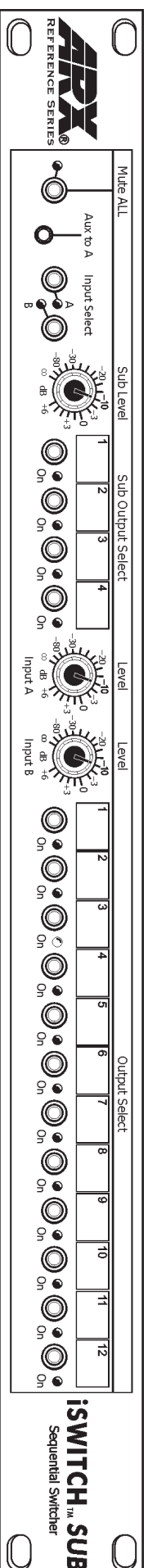
Specific queries can be emailed to the factory at

info@arx.com.au



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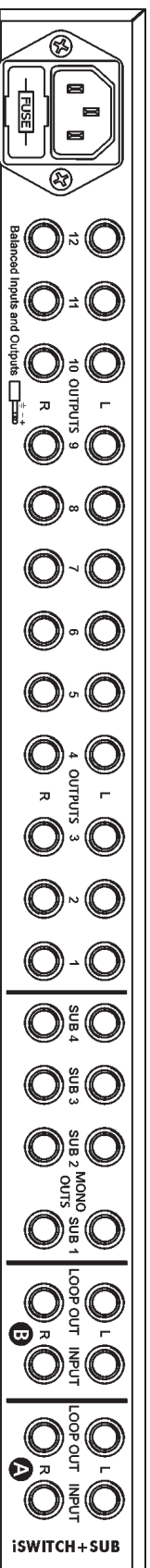
Front Panel



- **Mute ALL** global mute button mutes signal on all outputs
- **Mini-jack connector** for mp3/portable media players. Signal inputs to **Input A**
- **Channel A or B** input switches and status LEDs
- **Sub Level control**, variable from infinity to +6dB
- **4 x Numbered SUB Marker Panels.** A 'scribble-strip' for writing down SUB channel assigns

- **4 x SUB Output** switches and status LEDs
- **Channel A** Level control, variable from infinity to +6dB
- **Channel B** Level control, variable from infinity to +6dB
- **12 x Stereo Output** switches and status LEDs
- **12 x Numbered Marker Panels.** A 'scribble-strip' for writing down channel assigns

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
- **Jack Output Connectors.** 24 (2 per channel) ¼" TRS (TipRingSleeve) balanced output jacks. Wired Tip +, Ring -, Sleeve Ground

- **SUB Jack Output Connectors.** 8 (2 per channel) ¼" TRS (TipRingSleeve) balanced output jacks. Wired Tip +, Ring -, Sleeve Ground
- **Channel A and B** Input jacks with associated Loop Outputs for connecting to other equipment or another **i-switch** or **i-switch SUB**

Using the i-switch SUB

Applications

Individually demonstrating or testing multiple powered speakers and Subwoofers

Setting Up

Setting up your **i-switch SUB** is very straightforward and intuitive. Firstly, connect the unit to AC power.

Please Note:



This is a single voltage unit. It is **essential** that you check that the voltage printed on the lid of the chassis is the same as the power coming from the AC connector on the wall, before connecting it to AC power.



Damage caused by connecting to the wrong AC voltage is NOT covered by your warranty

1. Connect your choice of signal to the Balanced TRS jack input connectors of Channels **A** and **B**. Keep the levels reduced until all wiring has been checked. You can also connect a lead from the 3.5mm output of an mp3 / portable media player to the Minijack Input on the front panel instead of the Channel A connection on the rear.
 2. Connect the outputs of the **i-switch SUB** to the inputs of your powered speakers. Up to 12 pairs can be connected.
 3. Power up the speakers
 4. Slowly bring up the A and B input levels until the desired volume is reached
 5. Step through the output switches and check that each speaker has been connected properly. A status LED will light up to show which speaker is active.
 6. You can also connect powered **SUB** cabinets to the **i-switch SUB**. Just connect the **SUB** outputs of the **i-switch SUB** to the inputs of your powered speakers. Control the Sub output volume with the SUB level control. Up to 4 pairs can be connected - simply step through them as you would on the full range outputs 1-12.
- Congratulations - You're ready to go!

Introduction

Thank you for choosing this **ARX i-switch SUB**. 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 i-switch SUB

The **i-switch SUB** is a unique precision piece of test equipment, being able to individually send a choice of two program sources to any of 12 pairs of powered loudspeakers and any of 4 powered subwoofers, making it ideal for batch testing or demonstrating. For example, Channel A could have program material, and Channel B have Pink Noise or a sine wave. Interlocking switches prevent more than one Input being selected at a time.

Interlocking switches also prevent more than one Output pair being selected at a time, so that each Output pair can be stepped through by pressing the subsequent switch. A status LED shows which output is currently active. Separate Subwoofer switches allow up to 4 subwoofer pairs to be connected and stepped through, independent of the other speakers. So you can demonstrate any of 4 powered subwoofers with any of up to 12 powered loudspeakers, or the other way round. It's truly a flexible and useful product.

A global **Mute ALL** switch on the front panel lets you mute all the outputs if you need to stop and answer questions or discuss product details with clients etc. Pressing the **Mute ALL** switch a second time will let the signal slowly ramp up back to the previous level.

All Inputs and Outputs are electronically balanced on Tip-Ring-Sleeve jack connectors, and there is a Front panel 3.5mm Mini Jack connector that lets you easily access Input A with an mp3 player.

Loop outputs allow the A and B input signals to be looped to additional **i-switch SUB** units, for larger testing arrays to be set up.

The **i-switch SUB**'s ultra low noise figures come from extensive use of premium components, plus care and attention to board design and layout. The result is superb, transparent audio quality and the headroom to accurately reproduce the most demanding input signal.

A and B Input Gains are adjustable from Off through to +6 dB via level controls on the front panel. LED status indicators show which Input is currently active.

The unique **ARX i-switch SUB** provides a truly innovative and flexible solution to testing multiple powered speaker systems.

Every day, ARX Pro Audio interface products solve audio problems for thousands of people around the world. We know we're obsessive about audio quality, but we're betting that you are too!