



## Operating Manual

### A 4937 3 Mic, Line + Bluetooth Input Preamp Wallplate

#### OVERVIEW:

The Redback® A 4937 accepts either a microphone level, line level, music or bluetooth input and converts the signal to a balanced high level output. The high level output signal is carried via Cat5e/6 cable, (suitable for distribution up to 300m without interference) back to Redback® compatible devices such as the Redback® A 4930 Hub, Redback® A 4942, Redback® A 4946 or Redback® A 4493 Source selector wall plate.

Microphone inputs are balanced XLR inputs, while the Line input is via 2 x RCA sockets, or 3.5mm audio jack for portable devices. A bluetooth receiver offers the ability to interface Bluetooth audio devices.

Each input has it's own dedicated volume while a master volume sets the overall output volume.

VOX muting is available which mutes the AUX, Music and Bluetooth inputs when any microphone input is active. The VOX sensitivity is adjustable via the front of the wallplate.

#### SPECIFICATIONS:

##### Frequency Response

Mic input:.....140Hz - 20kHz  
 Aux input:.....140Hz - 20kHz  
 Music input:.....140Hz - 20kHz

##### Input Sensitivity

Mic input: ..... 1mV -13mV balanced  
 Aux input: ..... 40mV - 800mV balanced  
 Music input: ..... 40mV - 800mV balanced

##### Connectors

Mic Input: ..... 3 pin XLR  
 Aux Input: ..... 2 x RCA  
 Music Input: ..... 3.5mm Stereo Socket

**Output:** ..... RJ45 8P8C

**Data transmission:** ..... Cat5e/6 cabling (max 300 metres)

**Weight:** ..... ≈0.19kg

**Dimensions:** ..... ≈ 145mm(L) x 115mm(W) x 50mm(H)

**Power:** ..... Powered over Cat5e/6 cable

# Redback® A 4937 Balanced Mic/Line Preamp Wallplate

## CONNECTING THE A 4937 WALL PLATE TO THE A 4930 MIC/LINE HUB

Figure 1 shows the connection diagram when connecting the A 4931 or A 4937 wall plates to the Redback® A 4930 Mic/Line Hub. The A 4931 and A 4937 wall plates can be connected to any of the four wall plate RJ45 connectors as shown. The A 4937 has a set of DIP switches on the rear which determine how the audio is output from the wallplate.

When the A 4937 is used with the A 4930 there are only two possible audio output options.

1) The audio from the A 4937 wallplate microphone inputs, line, music or Bluetooth input are mixed together and output to the A 4930 Hub.

DIP Switches set as follows: 1-OFF ,2-OFF, 3-OFF, 4 - OFF.

2) The A 4937 wallplate microphone inputs have VOX priority over the AUX, Music and Bluetooth inputs. I.e. the audio from the AUX, Music and Bluetooth inputs will be over ridden by the Mlc inputs when a microphone is used.

DIP Switches set as follows: 1-OFF ,2-ON, 3-OFF, 4 - OFF.

The VOX sensitivity of the microphones is adjusted by the VOX sensitivity pot on the front of the A 4937.

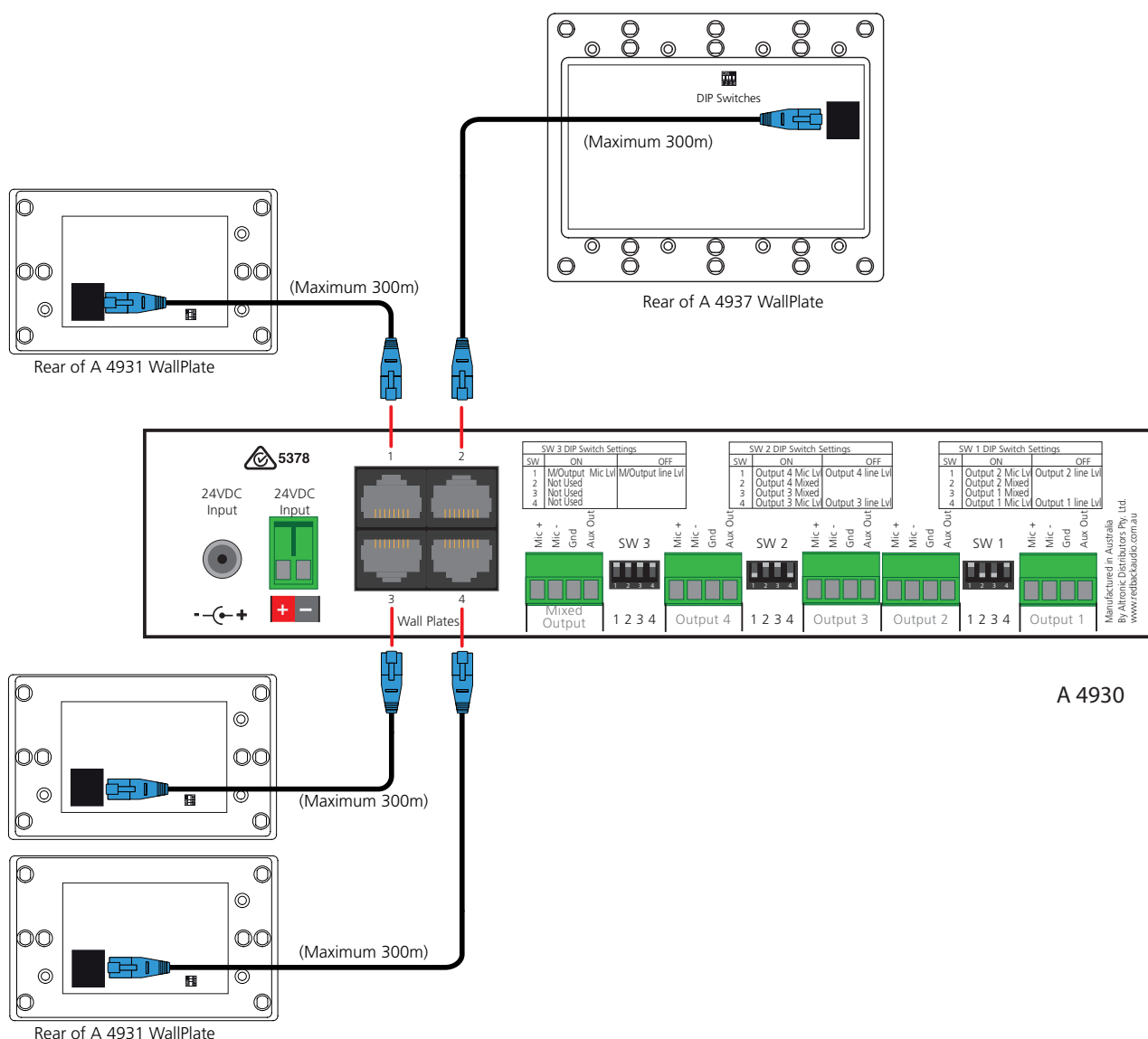


Fig 1.

# Redback® A 4937 Balanced Mic/Line Preamp Wallplate

## CONNECTING THE A 4937 WALLPLATE TO THE A 4493 SOURCE SELECTOR WALL PLATE

Figure 2 shows the connection diagram when connecting the A 4937 wall plates to the Redback® A 4495 Zone Selection plates. The A 4495 wall plates are typically used with the Redback® A 4480B 8 x 8 Audio Switcher.

The A 4937 has a set of DIP switches on the rear which determine how the VOX (voice operated switch) priority functions.

Dip switch 3 when set to ON, activates the VOX function. If this switch is in the OFF position the audio from the A 4937 will only override the A 4495 Input Source Wall Plate if the "Local Input" button has been selected on the A 4495 (see relevant instruction manual for details). In this mode the Mic and AUX, Music and Bluetooth inputs from the A 4937 will be mixed - there is no priority.

If DIP switch 3 is set to ON then the following VOX priorities result from DIP switches 1 and 2 without the need for the "Local Input" button to be selected on the A 4495 Input Source Wall Plate.

DIP Switch 1 set to ON: The Microphones and the AUX, Music and Bluetooth input will mix together and the audio from the A 4937 will then override the A 4495 zone input audio source.

DIP Switch 2 set to ON: The Microphones only, will activate the VOX circuit and mute the AUX, Music and Bluetooth input if used. The audio from the A 4937 will then override the A 4495 zone input audio source.

DIP Switch 4 set to OFF

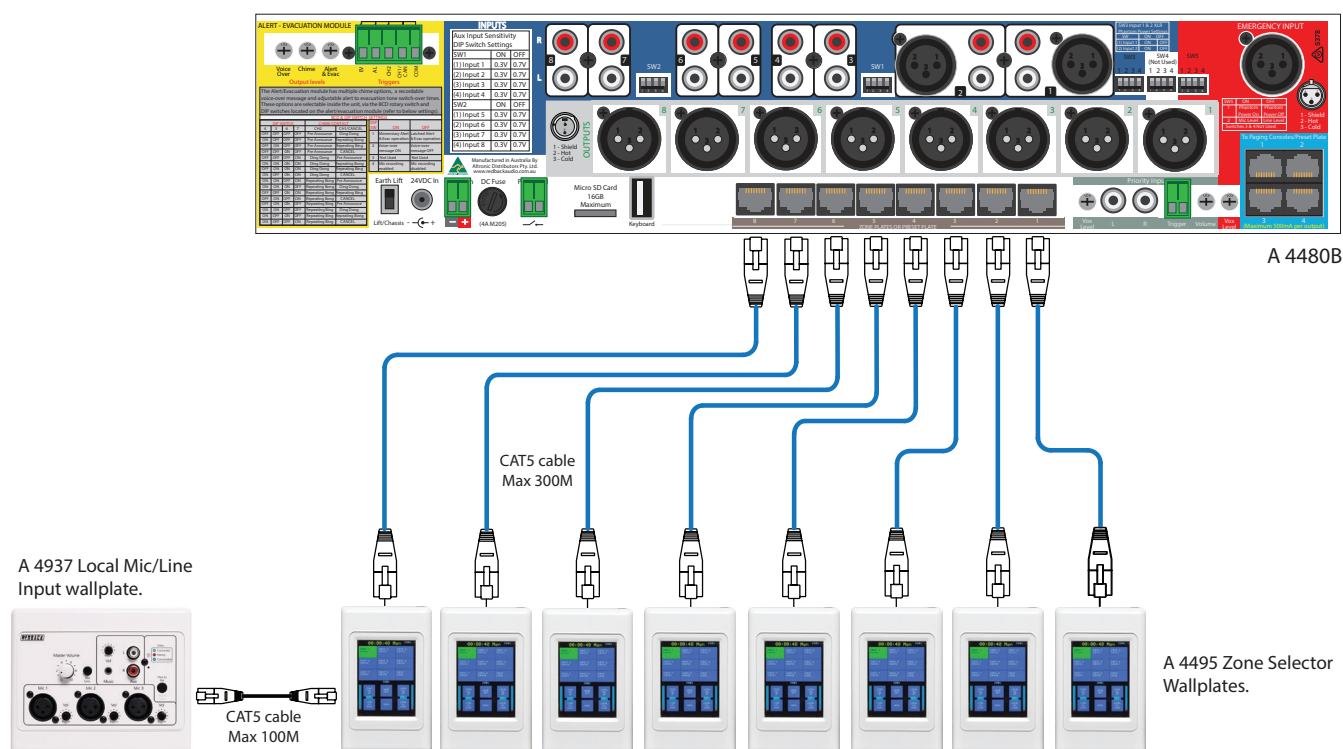


Fig 2.

## BLUETOOTH FUNTIONALITY

When the A 4937 is first powered up, or after the pairing has been reset by holding down the "Press to Pair" button, the Bluetooth connection is available (or connectable). The BT Status LED will flash blue in this mode.

Press the button "Press to pair" to pair the A 4937 to your phone/device. The BT status LED will flash red/blue in this mode. The connection labelled "A4937\_REDBACK\_BT" should appear in your pairing list. Pair as per your devices standard procedure. The BT status LED will be a solid blue when connected.

To clear the pairing list or to kick a user off the bluetooth connection, hold down the "Press to Pair" button until the blue LED flashes quickly. The Bluetooth connection is now available.

# Redback® A 4937 Balanced Mic/Line Preamp Wallplate

## BLUETOOTH APP

A bluetooth connection APP will be available for Android devices.

The APP will allow custom labelling of the connection name and can apply a PIN to the connection. The default name for the connection is A4937\_REDBACK\_BT.

To allow the APP to connect to the A 4937, and change the label name and/or PIN, follow these steps.

- 1) set DIP switch 4 to "ON". The BT Status LED will flash RED (Note: It may take up to 3 seconds). Once a connection to the APP has been established the LED will become solid RED.
- 2) Change the label and/or PIN using the APP.
- 3) set DIP switch 4 to "OFF"

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You may be surprised to learn that Altronics is still manufacturing hundreds of product lines right here in Australia. We have resisted the move offshore by offering our customers better quality products with innovations to save them time and money.

Our Balcatta production facility manufactures/assembles:

Redback public address products  
One-shot speaker & grill combinations  
Zip-Rack 19 inch rack frame products

We strive to support local suppliers wherever possible in our supply chain, helping to support Australia's manufacturing industry.

## Redback Audio Products

100% developed, designed & assembled in Australia.

Since 1976 we have been manufacturing Redback amplifiers in Perth, Western Australia. With over 40 years experience in the commercial audio industry, we offer consultants, installers and end users reliable products of high build quality with local product support. We believe there is significant added value for customers when purchasing an Australian made Redback amplifier or PA product.

## Local support & feedback.

Our best product features come as a direct result of feedback from our customers, and when you call us, you speak to a real person - no recorded messages, call centres or automated push button options.

It's not only the assembly team at Altronics who are employed as a direct result of your purchase, but hundreds more at local companies used in the supply chain.

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There's a reason we have the industry leading DECADE warranty. It's because of a long tried and tested history of bullet-proof reliability. We've heard PA contractors tell us they still see the original Redford amplifier still in service in schools.

We offer this comprehensive parts & labour warranty on almost every Australian Made Redback public address product. This offers both installers and end users peace of mind that they will receive prompt local servicing in the rare event of any problems.

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