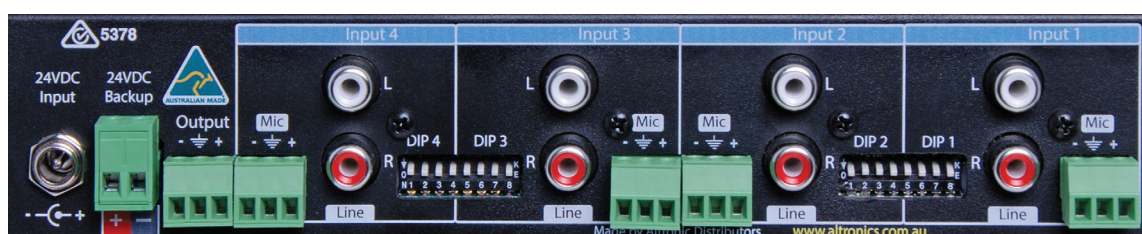




# Operating Manual

**A 4422** Public Address Mixer



## 1.0 Overview

The Redback® A 4422 4 channel mixer has been designed to meet the requirements of professional public address installations. It is ideally suited for use in shopping centres, gymnasiums, places of worship, court rooms etc.

### Inputs and Outputs

The A 4422 is a 4 channel mixer with all inputs configurable for Balanced Mic or Line level input. The line level inputs are dual RCA's with DIP switch adjustable input sensitivity, and are internally mixed to give a mono signal. The balanced mic inputs are connected via 3 way euro blocks and have DIP switch selectable phantom power of 15V DC .

A 1V balanced output is provided via euro blocks.

### Front Panel Controls

The front panel includes individual volume controls and tamper proof, screw driver adjust, treble and bass controls for each input channel.

### Priority and Muting

There are two levels of priority/VOX muting. Inputs 1 and 2 will operate the priority/VOX muting regardless of the input configuration. (ie: both the microphone and line inputs will operate the priority/VOX circuit if this function is selected "ON" for that input). This is particularly useful when an input is set for line use, as it enables telephone paging, radio microphones, emergency tones or similar to mute background music on other inputs.

The priorities operate as follows.

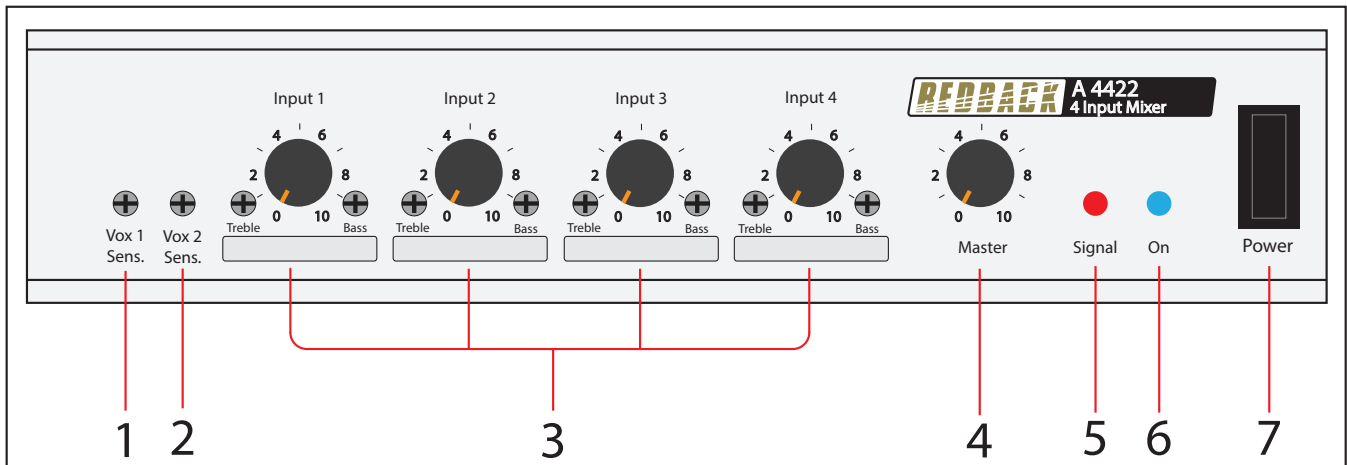
**Input 1:** Priority 1 - mutes inputs 2-4

**Input 2:** Priority 2 - mutes inputs 3-4

### Adjustable VOX muting sensitivity

The VOX muting on inputs 1 and 2 have adjustable sensitivities which are adjusted via the trimpots on the front panel.

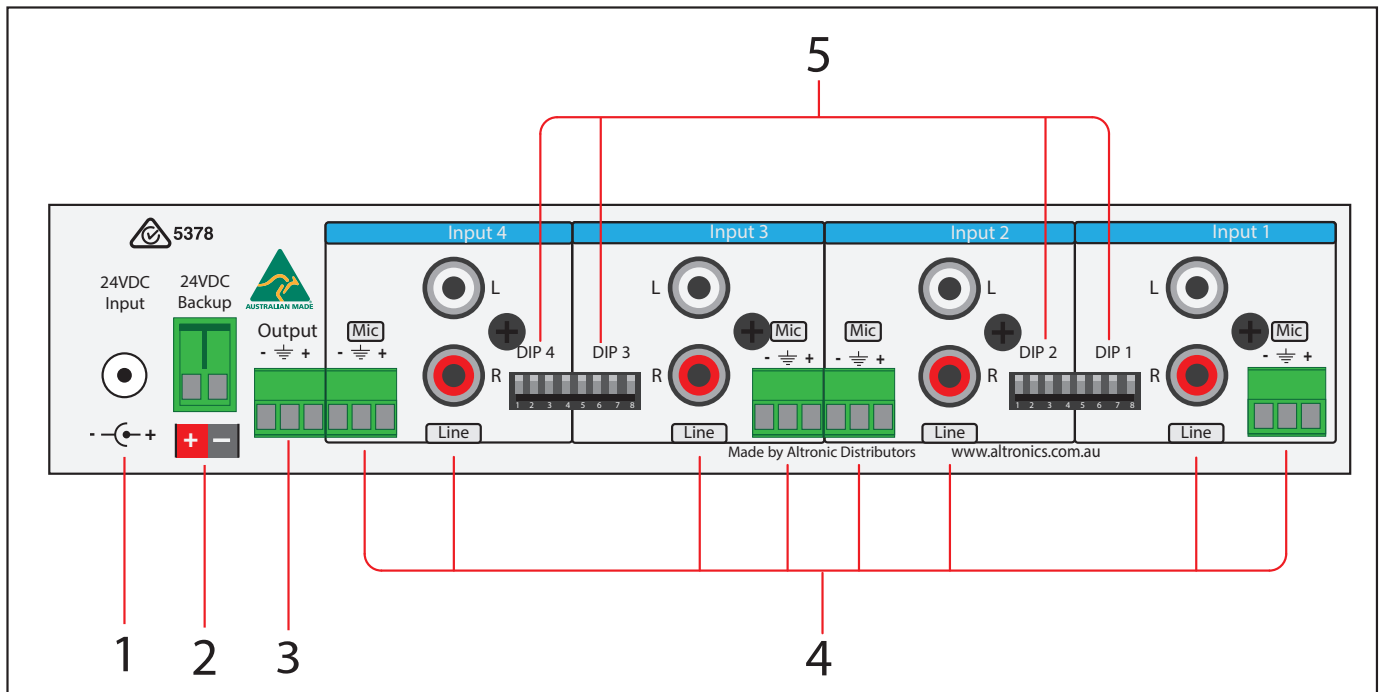
## 2.0 FRONT PANEL CONNECTIONS



- 1 VOX 1 Sensitivity**  
This sets the VOX sensitivity of input 1. When the VOX is active on input 1, inputs 2-4 are muted.
- 2 VOX 2 Sensitivity**  
This sets the VOX sensitivity of input 2. When the VOX is active on input 2, inputs 3-4 are muted.
- 3 Inputs 1-4 volume controls**  
Use these controls to adjust the output volume of inputs 1-4.
- 4 Master Volume**  
Use this control to adjust the master volume.
- 5 Signal Indicator**  
This led indicates when the unit has an input signal present.
- 6 On Indicator**  
This led indicates when the unit has power.
- 7 Power Switch**  
Used to turn the unit On or OFF.

**Fig 2**

### 3.0 REAR PANEL CONNECTIONS



- 1 DC Input**  
Power is supplied to the unit via a 2.1mm (tip to positive) DC socket. The input voltage must be between 24-28V DC.
- 2 24VDC Backup**  
Battery Backup: Provision has been provided to run the mixer from a suitably rated 24V battery system in the event of a mains failure.
- 3 Balanced Line Output**  
Connects via Euroblock screw terminals. A 3 pin 1V balanced output is provided for passing the audio signal on to amplifiers.
- 4 Input connectors**  
There are 4 sets of inputs which can be either balanced mic or line level inputs. The line inputs are dual RCA connectors which are internally mixed to produce a mono input signal.
- 5 DIP Switches**  
These switches are used to enable phantom power to the Mic inputs, enables the VOX on inputs one and two, adjusts the line input sensitivities and set the inputs to Mic or Line. See DIP Switch Settings for more detail.

## 4.0 DIP Switch Settings

The DIP switch features are outline below.

### DIP 1

**Switch 8** - Enables phantom power to the Mic connector on Input 1.

**Switch 7** - Enables the VOX on input 1.

**Switch 6** - Sets Input 1 Line sensitivity to either 1V or 100mV. Off - sensitivity 100mV, ON - sensitivity 1V.

**Switch 5** - Sets Input 1 to Mic or Aux input. Off - Mic input, ON - Aux input.

### DIP 2

**Switch 4** - Enables phantom power to the Mic connector on Input 2.

**Switch 3** - Enables the VOX on input 2.

**Switch 2** - Sets Input 2 Line sensitivity to either 1V or 100mV. Off - sensitivity 100mV, ON - sensitivity 1V.

**Switch 1** - Sets Input 2 to Mic or Aux input. Off - Mic input, ON - Aux input.

### DIP 3

**Switch 8** - Enables phantom power to the Mic connector on Input 3.

**Switch 7** - Not Used

**Switch 6** - Sets Input 3 Line sensitivity to either 1V or 100mV. Off - sensitivity 100mV, ON - sensitivity 1V.

**Switch 5** - Sets Input 3 to Mic or Aux input. Off - Mic input, ON - Aux input.

### DIP 4

**Switch 4** - Enables phantom power to the Mic connector on Input 4.

**Switch 3** - Not Used

**Switch 2** - Sets Input 4 Line sensitivity to either 1V or 100mV. Off - sensitivity 100mV, ON - sensitivity 1V.

**Switch 1** - Sets Input 4 to Mic or Aux input. Off - Mic input, ON - Aux input.

Input 1: When VOX is enabled on input 1 it will override all other inputs

Input 2: When VOX is enabled on input 2 it will override inputs 3 to 4 ).

## 5.0 SPECIFICATIONS

### INPUT CONNECTORS

Inputs: .....3 pin euro blocks or 2 x RCA

24V DC power: .....2.1mm DC Jack

24V DC power: .....Screw terminals

### OUTPUT CONNECTORS

Balanced Out: .....Screw terminals

### FREQUENCY RESPONSE

Mic inputs:.....30Hz - 15kHz, -3dB

Line inputs: .....30Hz - 23kHz, -3dB

### INPUT SENSITIVITY

Mic inputs: .....3mV balanced

Line inputs:.....100mV or 1V

### CONTROLS

Inputs: .....Volume

Bass:.....±10dB @ 100Hz

Treble:.....±10dB @ 10kHz

Master: .....Volume

Power: .....On/off switch

Indicators:.....Signal present, On

Vox sensitivity: .....Vox1, Vox2

\* Specifications subject to change without notice.

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