



## Operating Manual

### A 4905 Mic/Line Pre-amp to Line Level Out

#### OVERVIEW

This line pre-amp will accept either a microphone or auxiliary input and convert it to a balanced high level signal suitable for distribution up to 500M without interference with up to 3V of output level available. Volume controls are provided for both inputs plus a master volume control. The microphone is a balanced XLR input whilst the auxiliary input consists of 2 x RCA sockets with a DIP switch attenuator to allow for 3 levels of input signals. The output is via a male 3 pin XLR.

#### OPERATION

A signal is fed into either of the two inputs. Either a Balanced Mic Input with an input level of 1.5mV, or a line level input with an input level sensitivity which is DIP switch selectable to 200mV, 500mV or 1V. The Mic input and the Aux inputs have dedicated volume controls and the output volume is set by the Master volume control. The unit is powered from 24V DC only.

#### PHANTOM POWER

DIP switch 1 selects phantom power to the microphone input. This is 15V DC and is applied to the hot and cold pins of the microphone input.

#### FEATURES

- XLR Mic input
- RCA Aux input
- XLR balanced output.
- Phantom power to Mic Input (15V DC).
- Controls for AUX, MIC and master volume.
- DIP Switch selectable AUX input sensitivity.
- 24VDC operation via 2.1mm DC power jack.

Distributed by Altronic Distributors Pty. Ltd.  
Phone: 1300 780 999 Fax: 1300 790 999 Internet: [www.altronic.com.au](http://www.altronic.com.au)

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# Redback® A 4905 Mic/Line Preamp to Line Level Wallplate

## FRONT AND REAR CONNECTIONS



- 1 **On Indicator**  
Indicates when the unit has power.
- 2 **Microphone Input**  
A balanced input for connection to balanced audio sources and microphones.
- 3 **DIP Switches**  
Set the Phantom Power and Aux input sensitivity.
- 4 **Auxiliary Input**  
A standard stereo RCA input for connection to an audio source.



- 1 **Balanced Output**  
A 3V balanced output which can be run up to 500 metres.
- 2 **Master volume**  
Adjusts the output volume.
- 3 **AUX Volume**  
Adjusts the volume of the Aux input source.
- 4 **Mic Volume**  
Adjusts the volume of the Mic input source.
- 5 **24V DC Input**  
Provides power to the unit via 2.1mm DC jack.

## SPECIFICATIONS

Power:..... 24V DC Input (2.1mm)  
Max current draw:..... 40mA @ 24V  
Frequency response:.....30Hz to 10KHz ( $\pm 0.5$ dB)  
Noise:.....> -50dB  
Controls: .....Master, Mic and Aux volume  
Weight: .....  $\approx$  240gm  
Dimensions: .....  $\approx$  133W x 65D x 44H mm  
Colour: .....Black

## Input:

XLR (Microphone): .....Reference level, 1.5mV  
RCA (Auxiliary): .....Dip switch selectable level  
(Nominal: 0.2V, 0.5V, 1V)

Mic input impedance: .....600 $\Omega$  Balanced

Line input impedance: .....10k $\Omega$

## Output:

Connection: .....Balanced 3V XLR (8.5V p-p)

Output load required: .....600 $\Omega$  nominal, balanced

Output level: .....+15dBm

\*Specifications subject to change without notice