

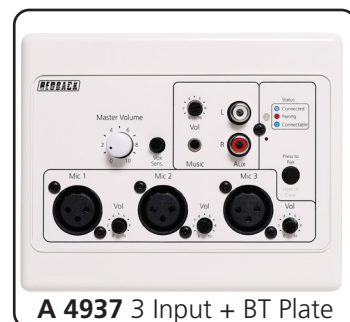
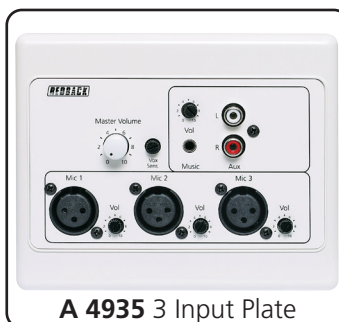
Redback® A 4428 8 Channel Public Address Mixer



Operating Manual

A 4428 8 CHANNEL MIXER WITH UTP INPUT and FIRE MUTING

Optional Redback® UTP Solutions Accessories



Redback® Proudly Made In Australia

Distributed by Altronic Distributors Pty. Ltd.

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IMPORTANT NOTE:

Please read these instructions carefully from front to back prior to installation.
They include important setup instructions.
Failure to follow these instructions may prevent the unit from working as designed.

User manual revision number: 1.0 13/07/2026



REDBACK is a registered trademark of Altronic Distributors Pty Ltd

You may be surprised to learn that Altronic 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 Altronic who are employed as a direct result of your purchase, but hundreds more at local companies used in the supply chain.

Industry leading 10 year warranty.

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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1.0 INTRODUCTION

This versatile Redback® PA mixer features six input channels, each selectable for either balanced microphone or line-level operation, along with two dedicated RCA line-level inputs and a 3.5 mm auxiliary input for portable audio devices.

A dedicated UTP input, which is internally mixed with Line Input 2, accepts compatible Redback® UTP Solutions products, allowing audio to be transmitted over Cat5/Cat6 cable for extended-distance installations.

The mixer provides two levels of VOX priority on Inputs 1–2, with independent VOX sensitivity adjustment for each input. Phantom power is individually selectable for the six XLR microphone inputs.

This model also includes a set of mute contacts for connection to a building's Fire Indicator Board (FIB). When activated by the FIB, these contacts mute the local PA/BGM system, ensuring the building's emergency evacuation system has priority during an emergency.

2.0 FEATURES

- Eight input channels
- Individual level, bass and treble control on all inputs
- Two levels of adjustable VOX priority
- 3.5mm music input
- UTP input for Redback® compatible products
- Adjustable input sensitivity on line inputs
- Phantom power (12V DC) on XLR mic inputs
- 24V DC battery back up terminals
- Mute function
- 10 Year Warranty
- Australian Designed and Manufactured

3.0 WHAT'S IN THE BOX

A 4428 Mixer 8 Channel
24V DC Plugpack
Instruction Booklet

4.0 FRONT PANEL GUIDE

Figure 1 illustrates the layout of the A 4428 front panel.

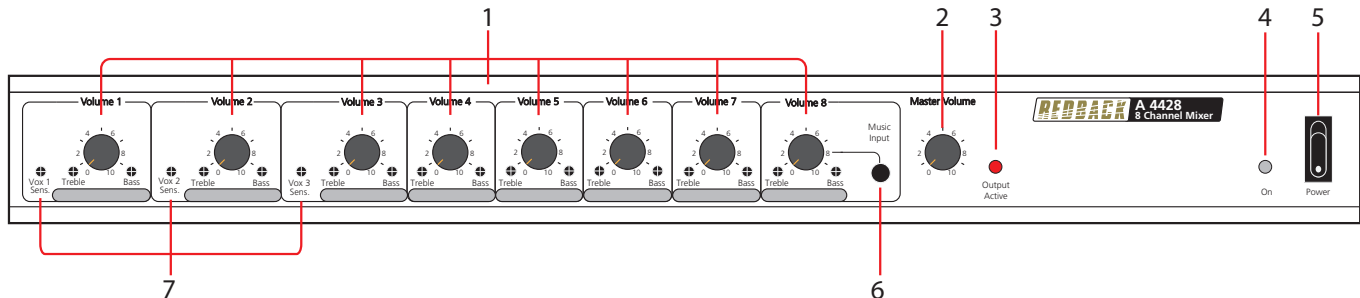


Fig 1

- Inputs 1-8 volume controls**
Use these controls to adjust the output volume, bass and treble of inputs 1-8.
- Master Volume**
Use this control to adjust the master volume.
- Output Active Indicator**
This LED indicates when a signal is present at the output.
- On/Fault Indicator**
This led indicates when the unit has power.
- Power Switch**
Use this switch to turn the unit On.
- Music input**
This input will override input 8 when connected. Use this for connection of portable music players.
- VOX Sensitivities**
These trimpots set the VOX sensitivities of input 1-2.

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5.0 REAR PANEL GUIDE

Figure 2 illustrates the layout of the A 4428 rear panel.

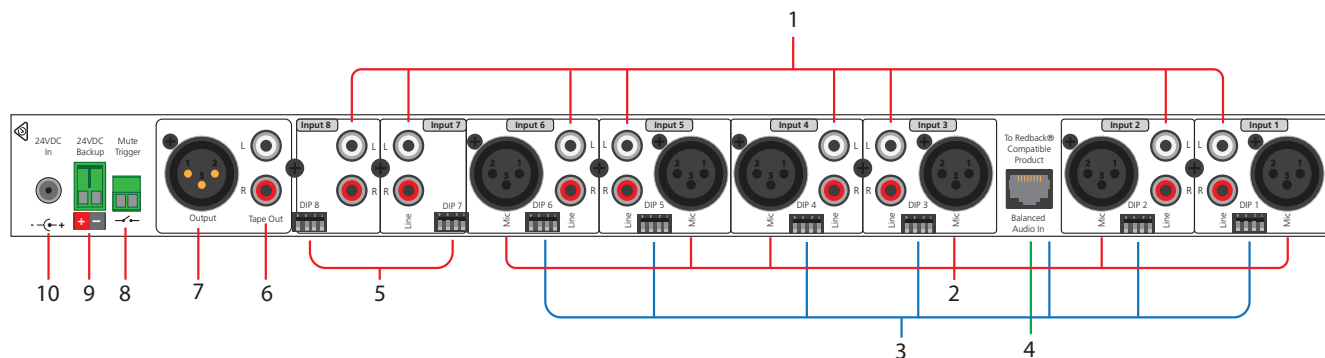


Fig 2

1 RCA Inputs

The line inputs are dual RCA connectors which are internally mixed to produce a mono input signal. The input sensitivity of these inputs can be adjusted to 100mV or 1V via the DIP switches DIP1 - DIP8 (refer to DIP switch settings).

2 Microphone Inputs

There are six XLR microphone inputs. Phantom power (12V DC) is available on each Mic input and is selected via DIP switches DIP1 - DIP6 (For more details see DIP switch settings).

3 Dip Switches DIP1 - DIP6

These are used to select various options such as phantom power on mic inputs, VOX options and input sensitivities. Refer to DIP Switch Settings section.

4 Redback® Compatible Product Input

This input is provided for connection to compatible Redback® UTP Solutions products and is intended for devices installed up to 200 m from the unit.

Examples of compatible products are illustrated in figure 3.

The Redback® Compatible Product input is internally mixed with the Line 2 input. Both inputs operate simultaneously, with no input priority or automatic source switching applied.

5 Dip Switches DIP7 - DIP8

These are used to select the input sensitivities of the Line inputs 7 & 8. Refer to DIP Switch Settings section.

6 Line Out

Dual RCA's provide a line level output for recording purposes or to pass the output on to another amplifier.

7 Preamp Out (Balanced Line Output)

A three pin 600 ohm 1V balanced XLR output is provided for passing the audio signal on to a slave amplifier or to record the output of the amplifier.

8 Mute Trigger

This connector is used to activate the Mute function. (see section 8.0 for more details).

9 24V DC Input (Backup)

Connects to a 24V DC backup supply with at least 1 amp current capacity. (Please observe the polarity)

10 24V DC input

Connects to a 24V DC Plugpack with 2.1mm Jack.

6.0 CONNECTIONS

Figure 3 illustrates an example installation.

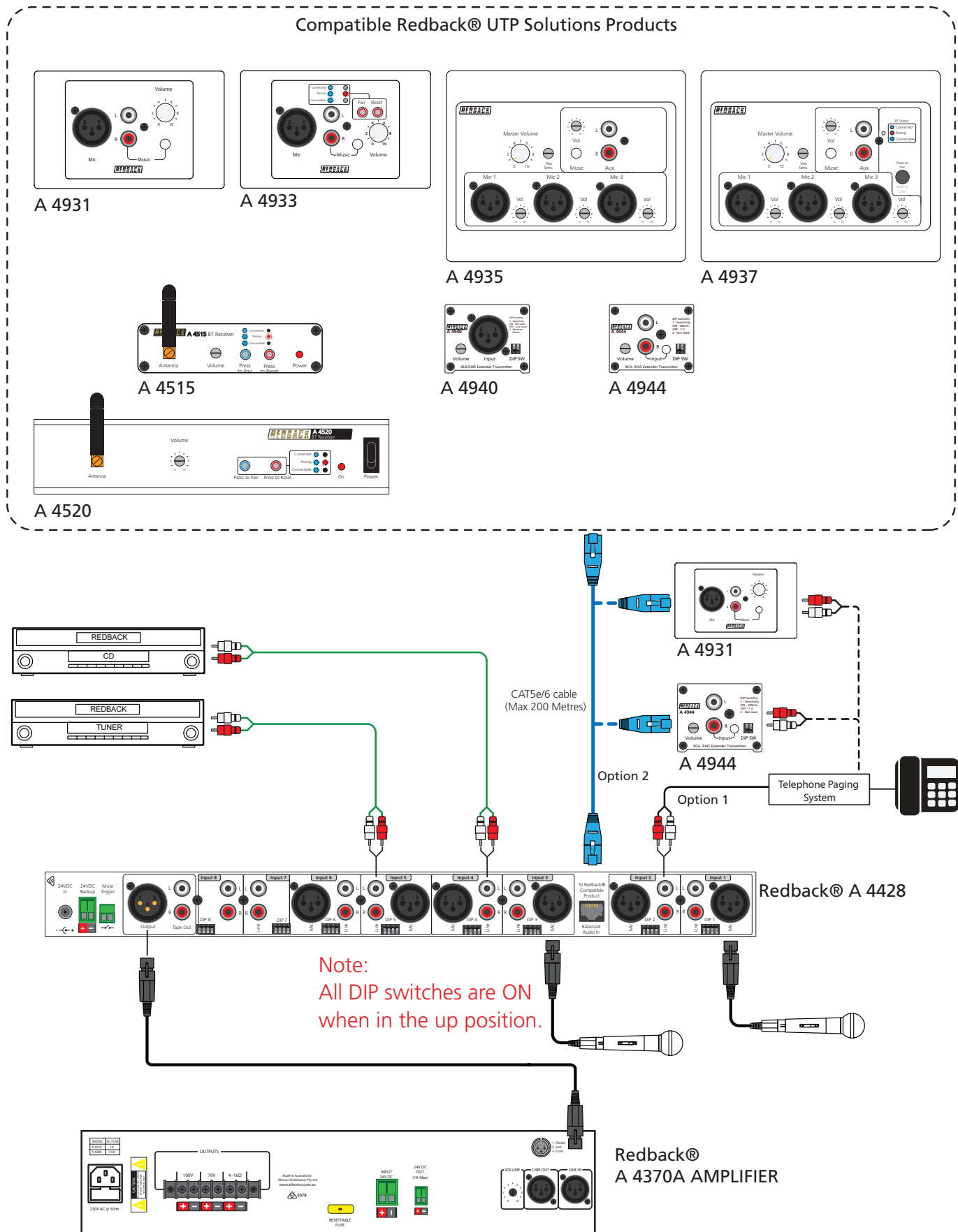


Fig 3

Redback® A 4428 8 Channel Public Address Mixer

Figure 3 Example Installation

The VOX priority system is configured with two priority levels, with the microphone connected to Input 1 assigned the highest priority.

For Input 1, DIP 1 is configured for a microphone input with VOX/Priority enabled, making it Priority Level 1. Refer to Section 7.0 for detailed DIP switch configuration information.

Input 2 accepts a line-level audio output, which in this example is supplied by a telephone paging system. There are two methods of connection:

Option 1 – Direct RCA Connection

Connect the telephone paging system's RCA line-level output directly to the Line 2 RCA input on the mixer. This is the recommended connection method when the paging system is located nearby.

Option 2 – UTP (Cat5/Cat6) Connection

When the telephone paging system is located up to 200 metres from the mixer, use a Redback A 4944, Redback A 4931 or other Redback UTP converter. The converter accepts the RCA line-level output from the telephone paging system and transmits the audio over standard Cat5/Cat6 (UTP) cable. At the mixer, the audio is received via the UTP input, which is internally mixed with the Line 2 input circuit.

The Input 2 DIP2 switch settings are set for a line level input with 1V input sensitivity and the VOX is enabled which makes this input priority level 2.

Input 3 is shown with a microphone connected. The Input 3 DIP3 switch settings are set for a microphone input. The VOX priority option is not available.

Inputs 4 and 5 are set as line level inputs with a sensitivity of 1V. The VOX priority option is not available. The output of the mixer is fed into a power amplifier which drives the speakers.

All DIP switch settings are shown in figure 4. *NOTE: The switches are ON when in the UP position.*

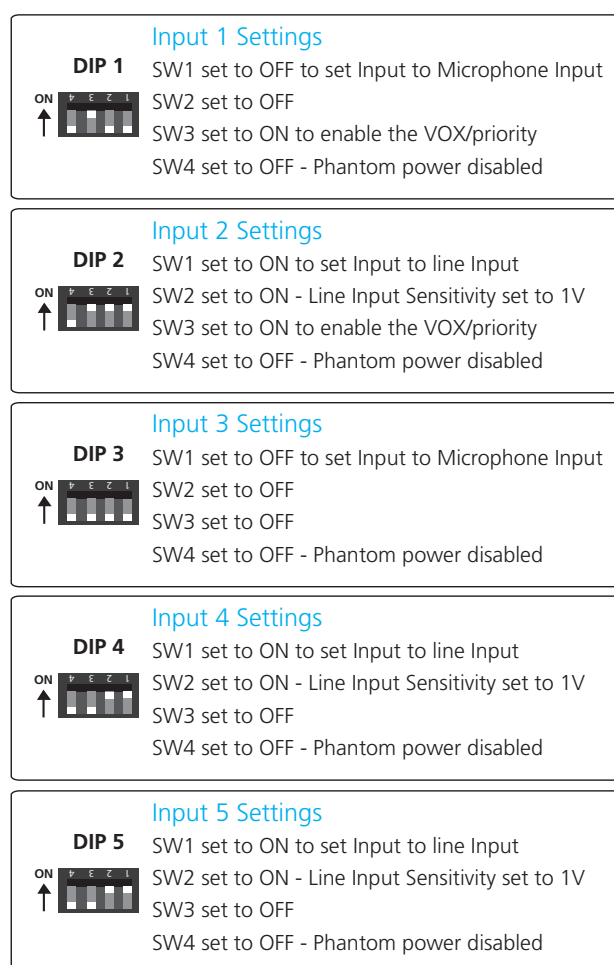


Fig 4.

7.0 DIP Switch settings

The A 4428 has 8 sets of DIP switches.

DIP Switches 1–6 configure Inputs 1–6 for either microphone or line-level operation, set the line input sensitivity, and enable phantom power when required. They also configure the VOX priority settings for Inputs 1–2. The line input sensitivity for Inputs 7 and 8 can also be configured using the DIP switches.

The available DIP switch settings are described below.

(* Priority/VOX muting is only available for inputs 1 - 3)

DIP 1

Switch 1 - Input 1 Select - OFF - Mic, ON - Line.

Switch 2 - Line 1 input sensitivity to ON-1V or OFF -100mV.

Switch 3 - ON - Sets Input 1 priority or VOX to ON.

Switch 4 - ON - Enables Phantom power to Input 1 Mic.

Input 1: When VOX is enabled on input 1 it will override inputs 2 - 8.

Input 2: When VOX is enabled on input 2 it will override inputs 3 - 8.

DIP 2

Switch 1 - Input 2 Select - OFF - Mic, ON - Line.

Switch 2 - Line 2 input sensitivity to ON-1V or OFF -100mV.

Switch 3 - ON - Sets Input 2 priority or VOX to ON.

Switch 4 - ON - Enables Phantom power to Input 2 Mic.

DIP 7 sets the input sensitivity of the Line input 7.

DIP 7

Switch 1 - Not Used

Switch 2 - Line 7 input sensitivity to ON-1V or OFF -100mV.

Switch 3 - Not Used.

Switch 4 - Not Used.

DIP 3

Switch 1 - Input 3 Select - OFF - Mic, ON - Line.

Switch 2 - Line 3 input sensitivity to ON-1V or OFF -100mV.

Switch 3 - Not Used

Switch 4 - ON - Enables Phantom power to Input 3 Mic.

DIP 8 sets the input sensitivity of the Line input 8.

DIP 8

Switch 1 - Not Used

Switch 2 - Line 8 input sensitivity to ON-1V or OFF -100mV.

Switch 3 - Not Used.

Switch 4 - Not Used.

DIP 4

Switch 1 - Input 4 Select - OFF - Mic, ON - Line.

Switch 2 - Line 4 input sensitivity to ON-1V or OFF -100mV.

Switch 3 - Not Used.

Switch 4 - ON - Enables Phantom power to Input 4 Mic.

DIP 5

Switch 1 - Input 5 Select - OFF - Mic, ON - Line.

Switch 2 - Line 5 input sensitivity to ON-1V or OFF -100mV.

Switch 3 - Not Used.

Switch 4 - ON - Enables Phantom power to Input 5 Mic.

DIP 6

Switch 1 - Input 6 Select - OFF - Mic, ON - Line.

Switch 2 - Line 6 input sensitivity to ON-1V or OFF -100mV.

Switch 3 - Not Used.

Switch 4 - ON - Enables Phantom power to Input 6 Mic.

8.0 Mute Function

The output of the A 4428 mixer can be muted by shorting the Mute Trigger contacts. Useful for rendering local PA/BGM inoperative so that an emergency evacuation system can take precedence.

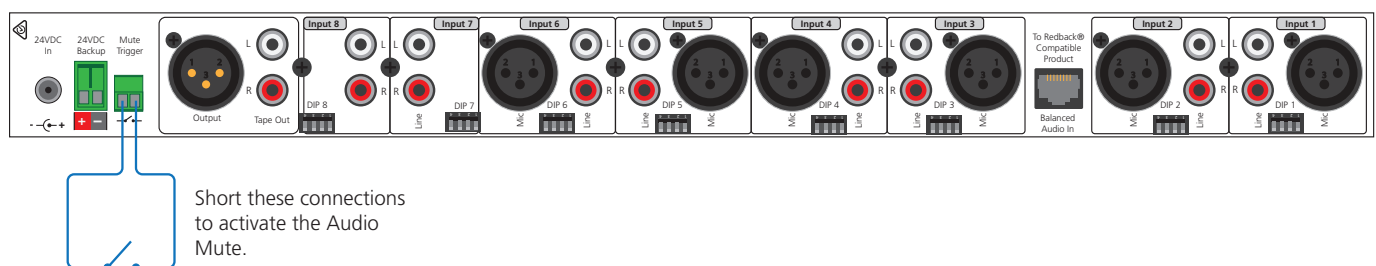


Fig 5.

Redback® A 4428 8 Channel Public Address Mixer

9.0 SPECIFICATIONS

OUTPUT LEVEL:..... 0dBm

DISTORTION:..... 0.01%

FREQ. RESPONSE:..... 20Hz - 20kHz

SENSITIVITY

Mic inputs: 3mV balanced

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

OUTPUT CONNECTORS

Balanced Out: 3 pin XLR balanced

Line Out: 2 x RCA (mono)

INPUT CONNECTORS

Mic Inputs: 3 pin XLR

Line Inputs: 2 x RCA

Music Input: 3.5mm stereo jack front panel

24V DC power: Screw terminals

24V DC Power: 2.1mm DC Jack

Mute Trigger: Screw Terminals

UTP Input: RJ45 8P8C

CONTROLS:

Power:..... Rocker Switch

Bass:.....±10dB @ 100Hz

Treble:..... ±10dB @ 10kHz

Master: Volume

Inputs 1-8: Volume

INDICATORS:..... Power on, Output Active

CURRENT DRAW:

A 4428 Idle current draw: 120mA

Max current draw: 180mA

POWER SUPPLY:..... 24V DC

DIMENSIONS:≈..... 482W x 175D x 44H

WEIGHT: ≈..... 2.1 kg

COLOUR: Black

* Specifications subject to change without notice