

Product Guide**A 4470** 4 Input / 8 Output Audio Matrix Switcher

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Overview

Designed to meet the demands of today's complex audio installations. This is a very versatile, cost effective, PA/BGM control system and is suitable for clubs, pubs, gyms etc. It is ideally used as central controller for all audio inputs and outputs in a multizone environment. The design is highly customisable by the installer or even end user - no special training or programs are required.

Input Operation

In total there are 14 inputs - 1 alert/evac input, 2 zone paging inputs, 1 emergency paging input, 8 local inputs and 4 auxiliary inputs. Each auxiliary input has selectable sensitivity - 0.3 to 0.7V.

A local input wallplate (A 4478) can be placed in each zone for connection to a local mic or line audio source. This wallplate connects to the A 4470 program selection wallplate, which is then wired back to the A 4470 via Cat 5 cable.

Auxiliary inputs can be switched to any zone or combination of zones. Each of the four auxiliary inputs have volume, treble and bass controls, plus a signal presence indicator. A programmable LCD indicates which input is selected to which outputs.

For remote selection of auxiliary inputs the A 4490 wallplate may be connected via Cat 5 cable to each zone (max 1 per zone). This wallplate enables selection of any auxiliary source, plus local level adjustment.

Tamper proof volume controls and signal presence indicators are provided for emergency paging and alert/evac signals. Closing contacts activate alert/evac signal.

Output Operation

Volume controls are provided for each output. All 8 outputs consist of 3 pin balanced line level XLRs.

Preset Operation

Six user presets are provided for recalling regularly used configurations. Presets one to four are user programmable and can be recalled at any time. Preset five is "last setting" prior to a preset being loaded. This is an easy way to revert to a previous system setting. Preset six is a backup of the initial system configuration. Presets may be selected from the front panel or remotely by the A 4476 preset selection wallplate.

Key Features

- ✓ 4 Stereo RCA line inputs (internally mono mixed)
- ✓ Adjustable line input sensitivity 0.3/0.7V
- ✓ Individual bass, treble and volume controls of all line inputs.
- ✓ 8 Balanced 3 pin XLR line outputs
- ✓ Individual volume controls of all 8 outputs
- ✓ Alert/evacuation/pre chime tone generator included (alert/evac tones comply to AS1670.4)
- ✓ Emergency balanced input with selectable phantom power and input sensitivity
- ✓ Programmable labelling of input sources and output zones via USB keyboard
- ✓ Four programmable presets
- ✓ On-screen help menu system
- ✓ Tampering lockout feature
- ✓ 240V AC or 24V DC operation
- ✓ 19" rack mount (2 unit)
- ✓ Australian designed & assembled

Priority Muting Operation

A priority muting system ensures appropriate signals are routed to zones depending on the condition of the system. For example in emergency paging mode, all inputs, including alert/evac signals are muted for live emergency announcements through the paging microphone.

In alert/evac mode all inputs are muted so that tones and recorded messages may be played in all zones.

When a local input is connected any auxiliary source being played in that zone will be muted.

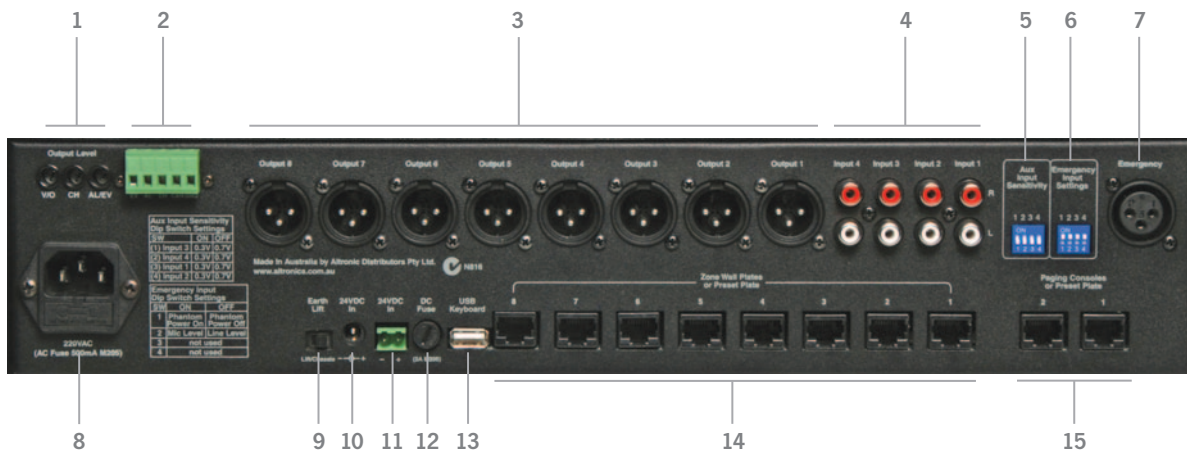
In zone paging mode auxiliary signals will be muted for transmission to the selected zone. To prevent unwanted interruptions during functions or events, zone paging may be prohibited from the front panel.

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Rear Panel



1	Voiceover, chime, alert/evac level	6	Emergency input DIP switch	11	24V DC power input (terminal block)
2	Chime, alert, evac, cancel contacts	7	Emergency paging mic XLR input	12	DC protection fuse
3	3 pin XLR balanced outputs (1-8)	8	240V AC power input	13	USB keyboard input
4	Stereo RCA auxiliary inputs (1-4)	9	Earth lift switch	14	Zone wall plate inputs (RJ45 8P8C)
5	Aux input sensitivity DIP switch	10	24V DC power input (2.1mm)	15	Paging console inputs (RJ45 8P8C)

Specifications

Electrical

Wallplate & paging console inputs:	RJ45 8P8C
Data transmission:	Cat5e cabling max 300m
Keyboard input:	USB type A socket (front & rear)
Power (240V AC):	IEC
Power (24V DC):	2.1mm DC socket / Euroblock terminal
Protection (AC):	500mA M205
Protection (DC):	2A M205

Controls

Outputs:	Individual level controls
Inputs:	Individual bass, treble and level controls
Zone selection:	Push buttons
Rear panel controls:	Voiceover level, chime level, alert/evac level, aux input sensitivity DIP, emergency input DIP

Mechanical

Dimensions:	482W x 152D x 88H mm
Weight:	4kg

Additional Installation Products

- A 4472 8 zone paging microphone
- A 4478 Local zone input wallplate
- A 4490 Remote program selection wallplate
- A 4476 Remote preset selection wallplate

About Redback® Public Address Products

Redback® products are proudly designed, engineered and manufactured in Australia.

Each unit is covered by a comprehensive 10 year parts and labour warranty. Redback® offers rock solid reliability from over 30 years experience in the commercial sound industry. Redback® offer locally available servicing and parts, plus the ability to offer feedback direct to the manufacturer.

Connections

Inputs	Auxiliary (1-4)	Paging Console	Emergency Mic
	Dual stereo RCA (0.3/0.7V)	RJ45 8P8C	3 pin XLR female (balanced)
Outputs	Outputs (1-8)		
	3 pin XLR male (balanced)		

Architect Specifications

The switcher shall feature 4 auxiliary inputs and 8 balanced XLR outputs. It shall feature a dedicated alert/evac input, two zone paging inputs and one emergency paging input and eight local wallplate zone inputs. It shall feature adjustable sensitivity with 0.3 or 0.7V selections on each auxiliary input.

It shall feature individual level controls for all inputs and all outputs. The unit shall be able to be programmed to send any input to any and all outputs. The unit shall feature tamper proof level controls for emergency and paging mic volume, input volume, bass and treble levels. Input signal indicators shall be fitted for auxiliary inputs.

The unit shall connect to the Redback A 4472 eight zone paging console by Cat5e UTP cabling. It shall connect to A 4490 remote program selection wallplates in each zone by Cat5e UTP cabling. It shall connect to A 4476 remote preset selection wallplate by Cat5e UTP cabling. It shall connect to A 4478 local input wallplate via A 4490.

The unit shall operate from 240V AC power via IEC socket or 24V DC power via 2.1mm DC connector or screw terminal block.

The unit shall be programmable with six preset configurations via front panel or remote wallplate. The unit shall feature on screen help menu.

The unit shall be housed in a high quality 2RU metal chassis suitable for rack mounting. The audio switcher shall be a REDBACK model A 4470.