

## **A 4430**

### **ARCHITECTURAL AND ENGINEERING SPECIFICATIONS.**

The mixer shall have 6 universal input channels, 6 individual outputs and two mixed outputs. Each input consists of a 3 pin balanced XLR microphone socket and dual RCA line sockets. Each output consists of a balanced 3 pin XLR socket. Additionally, the unit shall have 2 dedicated stereo line inputs consisting of RCA sockets. Each universal channel ( 1 to 6 ) shall be equipped with a rear panel mounted DIP switch which shall enable selection of microphone or line input; phantom power on / off; line input sensitivity of 100mV or 1V; priority on / off (inputs 1-3 only). The priority function shall be that, when selected on, input 1 shall mute inputs 2 – 8, input 2 shall mute inputs 3-8, and input 3 shall mute inputs 4-8. The signal from each input can be internally configured to be directed to its own dedicated 3 pin XLR output (to feed individual amplifiers or for individual recording purposes) or to the 2 mixed (left and right) 3 pin XLR outputs. Frequency response shall be 30Hz – 15 kHz (-3dB) for microphone inputs and 18Hz – 23 kHz (-3dB) for line inputs. Distortion levels shall be less than 0.3% at any input. Signal to noise ratio shall be -98dB with all controls set at minimum.

The unit shall have separate volume controls for each input channel and master output level controls for each (left and right) output channel. Each input channel shall have individual tone controls which shall provide 10dB cut or boost at 100Hz and 10dB cut or boost at 10 kHz. Each input channel shall have a pan (balance) control. When this pan control is “centred” the signal is directed equally to the “left” and “right” outputs respectively. If the control is “panned” to the left, the signal will be directed to the left output only. Conversely if it is “panned” right, the signal will be directed to the right output only. The unit shall have, for each output channel, a LED bargraph VU meter display on the front panel.

The mixer shall be capable of being fitted with an alert, evacuation chime generator module. When activated it will assume priority two.

The unit shall operate from 240V AC or 24V DC and will be fuse protected. Power indication for each output channel shall be provided by front panel mounted LEDs.

The mixer shall have, for each output channel, a 600 ohm / 0dBm XLR balanced and dual RCA tape outputs. A stereo headphone socket shall be provided on the front panel.

The unit shall be housed in a high quality 2RU metal chassis suitable for rack mounting.

The stereo / mono mixer shall be a **REDBACK** model **A 4430**.