

## **Anytronics Ltd : Versatile Bi-Colour 4 tile driver**

### **Connection**

This mains powered four channel control unit can be used floor mounted or else attached to the back of a Versatile. Input power is supplied via a PowerCon connector, and an output PowerCon socket can be used to daisy chain power connections to a maximum number of 10 units.

PLEASE NOTE Powercon connectors are not designed to be connected or disconnected when live.

Only the supplied Bi-Colour Versatile cabling should be used to connect from the three pin XLR connectors on the rear of the unit to Bi-Colour Versatiles. This cabling is of particularly low impedance in order to carry the necessary LED currents.

DMX connections can be made to the front panel 5 pin XLR or RJ45 connectors. The DMX input is completely isolated, and protected to DMX-512 A. The DMX start address is indicated on the front panel push buttons.

### **Basic Operation**

If power is being supplied to the Versatile Bi-Colour controller, the neon on the back panel will light. If the rear panel switch is set to on, then the green LED on the front panel should light, and the red LED indicators on the front panel should come on briefly. These should extinguish after a few seconds if the connections to the four Bi-Colour Versatiles are satisfactory. If no tile is connected on a channel, or a short circuit is detected on the channel output, its red LED will remain lit, and that channel will be disabled.

With no input DMX data present, the yellow DMX data LED remains extinguished, and control of the light output from each Bi-Colour Versatile is provided by the relevant channel's front panel rotary controls for level and colour. The level control will provide dimming from 0 through 1% to 100%. The colour control will set light output equivalent to a CCT of 3200°K with the control anticlockwise, and to 5500°K with the control fully clockwise.

When DMX data is being received at the set DMX start address, then the yellow data LED will light, the DMX signal will control the 4 channels and all the rotary controls are disabled.

On removal of valid DMX data from the DMX input, the yellow data LED will flash (50/50), whilst the output levels will remain fixed at the last received DMX levels. If any one of the rotary controls is subsequently moved, then the control of output levels will revert to the eight front panel controls, the previous DMX levels will be forgotten, and the yellow data LED will be extinguished.

### **Indicators**

The back panel neon indicates that the unit is supplied with mains power.

The front panel green power LED indicates that the unit is switched on.

The front panel yellow data LED indicates the status of and presence of DMX data.

The right hand amber LED shows that the DMX terminator is switched into the DMX circuit.

The red 'fault' LED for each channel will be illuminated if either a Versatile is not connected to the controller output (or cable open circuit), or else a short circuit is detected at the controller output.

The blue LED will come on as an indication that there is too much cable impedance in circuit. This is only likely to occur at higher light levels if excessive lengths of cable extensions have been added between Versatile and controller.

### **DMX address options**

A DMX address setting of zero will disable the DMX inputs and allow manual level control using the rotary controls provided on the front panel.

DMX address settings of between 1 and 512 will set that DMX start address.

DMX addresses between 512 and 520 will be interpreted as 512.

DMX address settings between 521 and 999 will be ignored, except if the unit is switched on with one of following special addresses set. These will alter the DMX and manual control mappings. For details of these, please see overleaf :-

### DMX mapping options

Normally the four Bi-Colour Versatile channels are controlled by DMX data at eight sequential DMX addresses, to give independent control of level and colour on each tile. This default DMX address mapping can be changed by setting selected special DMX addresses at power up. Changes to the address mapping are retained until powered up with another of these special addresses set.

- 991 = level of all channels controlled by start address data, colour by start address+1
- 992 = level of channels 1 and 2 controlled by start address data, colour by start address+1  
level of channels 3 and 4 controlled by start address+2, colour by start address+3
- 994 = default eight DMX address decoding, alternating level and colour control

So to summarise, use the table below, where SA is the set DMX start address.

DMX address at switch on :-	991	992	994
DMX control :-			
tile output 1 level	SA	SA	SA
tile output 1 colour	SA+1	SA+1	SA+1
tile output 2 level	SA	SA	SA+2
tile output 2 colour	SA+1	SA+1	SA+3
tile output 3 level	SA	SA+2	SA+4
tile output 3 colour	SA+1	SA+3	SA+5
tile output 4 level	SA	SA+2	SA+6
tile output 4 colour	SA+1	SA+3	SA+7
Manual Control :-			
tile output 1 colour	Ch 1 level	Ch 1 level	Ch 1 level
tile output 1 level	Ch 1 colour	Ch 1 colour	Ch 1 colour
tile output 2 level	Ch 1 level	Ch 1 level	Ch 2 level
tile output 2 colour	Ch 1 colour	Ch 1 colour	Ch 2 colour
tile output 3 level	Ch 1 level	Ch 3 level	Ch 3 level
tile output 3 colour	Ch 1 colour	Ch 3 colour	Ch 3 colour
tile output 4 level	Ch 1 level	Ch 3 level	Ch 4 level
tile output 4 colour	Ch 1 colour	Ch 3 colour	Ch 4 colour