

## VR1000 & VR500, RGBW User Manual

### Specifications

Input Voltage: 110 – 240v AC 50-60Hz

Power Consumption: 30w

Weight: 3kg

Dimensions VR1000: 1000mm x 75mm x 80mm (plus Brackets)

Dimensions VR500: 500mm x 75mm x 80mm (plus Brackets)

Beam Angle: 30deg

LED's VR1000: 240 LED's (RED: 36, GREEN: 72, BLUE: 72 & WHITE: 60)

LED's VR500: 120 LED's (RED: 18, GREEN: 36, BLUE: 36 & WHITE: 30)

DMX Connections: 3 pin male / female flying leads with IP65 rated connectors

Mains Link: 4 pin male / female flying leads with IP65 rated connectors

Infra – Red Remote Control Sensor

### Features

Infra Red Remote Control (Using optional VRIR remote Transmitter)

Compatible with LED Technologies Optional VR RGBW Easy Controller

Stand Alone / Master Slave

DMX 512 Controllable (6 x Channel)

410Hz LED Driver Chips for Flicker Free Operation when using Video Equipment

Power Link

IP44: Rated for Outdoor Use

Mains and DMX Linkable

Low Power Consumption

Rubberised easy wrap cable (Optional Data & Power link leads are available in various lengths).

### Introduction

Thank you for choosing the VR1000 or VR500 RGBW Outdoor Lighting Baton.

Prior to use, please read all the instructions carefully paying particular attention to the installation of this product.

By following the suggestions found in this user manual you can look forward to long and reliable service of your new product.

### Unpacking, Inspection and Installation

Please check that the following items are included in your packaging. If anything is missing please contact your dealer.

VR1000 RGBW Baton • Power cord with 13A mains plug

Carefully remove all packaging materials from the box, ensuring that all foam padding is discarded responsibly.

This unit can be mounted and operated at any angle; however we would recommend using a suitable safety chain if the unit is to be installed above head height. As little or no heat is generated by the unit it can safely be installed behind marquee linings and drapes.

### Set Up

Connect your VR1000 or VR500 RGBW Unit to a suitable mains supply using the special power lead (Included)

Units can be linked together using the IP64 rated mains link leads.

Extension Data and Mains Links in various lengths are available as an optional extra.

### Operation

The VR Range of outdoor lighting requires a VRIR Infra-Red Remote control transmitter to set up the units.

They can then be controlled either using the VRIR, by a suitable DMX controller, or by the VR RGBW Easy Controller.

## **Infra-Red Operation (requires the optional VRIR infra - red remote control transmitter)**

Note: The Infra-Red sensor is located in the centre of the LED Matrix. It is clearly marked "IrDA". When operating the baton by remote control, point the I/R transmitter towards this area of the LED Matrix on the front of the Baton



### **VRIR Instructions**

Connect the VR1000 or VR500 RGBW baton to a suitable mains power supply.

If required, the units may be linked together using a suitable 3 PIN DMX lead.

Point the VRIR controller at the IR lens on

the front of the Master Lighting Unit.

1. Press "BLACK OUT" to switch the units on or off.
2. Press "A" to set the units to Auto run.
3. The "PROGRAM" button is used in conjunction with buttons 0 to 9 or "+" & "-" to select the various built in programs. Note: The programme's can be modified once selected as follows.
4. To Add a Strobe effect: Press the "F" button to select the flash mode.
5. To control the strobe speed: Press the "SP" Button then the + & - buttons to increase or decrease the flash rate.
6. To control the speed of the Chase or Fade programs (8 & 9): Press the "SP" Button then the + & - buttons to increase or decrease the run speed of the program.
7. Pressing "D" puts the unit into DMX mode.  
Note: Refer to example of how to set the DMX address.
8. The "SA" button is not a function of the VR1000 or VR500 RGBW Baton.
9. Pressing the "SL" button puts the unit into "Slave" mode.
10. The "R" "G" "B" & "0" buttons are used in conjunction with the + & - buttons to control the intensity of individual colours.
11. The "S" button used in conjunction with the numbered "0" to "9" buttons sets the units DMX address, (see example below).

### **Setting the DMX Address using the VRIR**

(Example to set the DMX address to "001")

1. Press the "S" button; note that all the LED's will flash indicating that the unit is ready to except the DMX address.
2. Press the "0" button; note that all the "Green" LED's will light indicating that the number "0" in the "001" address is set.
3. Press the "0" button, note that all the "Blue" LED's will light indicating that the number "0" in the "001" address is set.
4. Press the "1" button, note that all the LED's on the unit will flash, indicating that the final number in the "001" address has been set.
5. Pressing the "D" button then sets the DMX operation. The unit is then ready to except a DMX signal corresponding to the address "001".

### **Built in Programs using the Remote Control**

Point the VRIR remote at the IR lens on the front of the baton.

Press "P" then "0" to select White, "1" to select "RED", press "2" to select "GREEN" and "3" to select "BLUE".

Pressing “P” then either “4” “5” “6” or “7” selects the most popular combinations of RGBW for quick access.

Pressing “P” then “8” selects a colour chase.

Pressing “P” then “9” selects a colour fade.

Alternatively press the “Prog” button followed by “+” or “-” to select the various programs.

**Note:** The chase or fade speed on programs “P8” or “P9” can be adjusted to suite your individual requirements by pressing the “SP” button and then clicking the + & - buttons to speed up or slow down the program when it is running.

Also using the “SP” and + & - buttons will adjust the flash speed of the LED’s when in the Flash mode.

### **Simple Colour Mixing**

To access the more accurate colour mixing capabilities of the unit, press any of the Red Green or Blue Buttons on the VRIR. All the LED’s should then illuminate. Accurate colour mixing of the R, G, B & W LED’s can then be performed using the + & - buttons. For Example: To increase or reduce the brightness of the Red LED’s, first press the Red button. Pressing “+” or “-“ repeatedly will then increase or decrease the Red LED’s. **Note:** “0” controls the White LED’s. Please note, if a colour has been mixed previously then when the R, G or B button is pressed that mixed colour will be displayed so if all the LED’s do not come on to full brightness you will need to select each colour and the + button to restore all the LED’s to full brightness.

### **LED Technologies VR RGBW Easy Controller**

Set Using the Infra-Red remote Controller, set the units to Slave Mode (SL). Connect the unit to the VR RGB Easy Controller using the DMX lead supplied with the controller. Refer to the instructions on the use of the VR RGBW Easy Controller for detailed operation.

**Tip:** When selecting a colour look at the area that the light shines onto and not directly at the LED’s.

### **Master / Slave Mode**

Multiple units together using the data and mains flying leads or extension leads. The first unit in the chain will be the master unit; all the other units are slaves so should be set to slave as detailed in the VRIR operation above.

Connect all the units to a suitable mains supply then whatever the Master unit is set to, the Slave units will copy.

### **DMX Mode**

The unit can be set to DMX mode (as above) which will enable accurate control over all functions and colour mixing using a compatible DMX 512 Controller.

**Note:** See Infra-red remote control instructions above to set DMX Address.

### **DMX Protocol Table**

Channel	DMX Value	Function
1	000 – 255	Red
2	000 – 255	Green
3	000 – 255	Blue
4	000 – 255	White
5	000 – 255	Master Dimming (Used in with Channels 1,2 3 &4)
6	000 – 010 011 - 255	No Function Strobe Effect (Slow to Fast)