

VARI*LITE

VL800 EVENTPAR RGBA

USER MANUAL

ABOUT THIS MANUAL

The document provides installation and operation instructions for the following products:

VL800 EVENTPAR RGBA

Read all instructions before installing or using this product. Retain this manual for future reference. Additional product information and descriptions may be found on the product specification sheet.

2. INCLUDED ITEMS

Each VL800 EVENTPAR luminaire includes the following items:

- VL800 EVENTPAR RGBA
- Quick Start Guide

SAFETY NOTICES

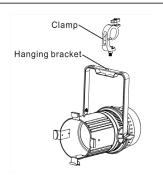
- Unpack and check carefully for damage from shipping before using the unit.
- Do install and operate by operator.
- Use safety tether when mounting.
- Install only in locations with adequate ventilation of at least 50cm clearance from adjacent surfaces.
- Ensure sure that ventilation slots are not blocked to prevent overheating.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Maximum ambient temperature T_A : 40°C minimum ambient temperature T_A : 0°C. Don't operate it where the temperature is higher than this.
- Do not connect the device to any dimmer pack.
- First run, there will be smoke or smells, and all disappearing a few minutes later.
- Make sure there are no flammable materials close to the unit while operating, as it is fire hazard.
- Look over power wires carefully, replace immediately if there is any damage.
- When in use, fixture surface temperature may reach up to 65°C. DO NOT touch the housing.
- Never run on for a long time lest shortening lifespan.
- Do not operate in dirty and dusty environment, also cleaning fixtures regularly.
- Do not allow children to operate the fixture.
- Do not touch any wire during operation as there might be a hazard of electric shock.
- Avoid power wires together around other cables.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- Do not open the unit as there are no user serviceable parts inside. Never try to repair the unit by yourself.
 Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest Authorized Service Center.
- Disconnect the mains power if the fixture is not used for a long time.
- Do use original packing materials once transport it again.
- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- Do not look directly at the LED light beam while the fixture is on.
- To protect the machine, power off 10s rear can electrify.

INSTALLATION AND SETUP

MOUNTING

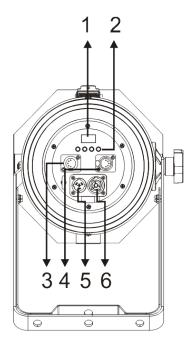
The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Always ensure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Always use a safety cable that can hold up to 12 times the weight of the unit when installing the fixture.

The luminaire must be mounted by professionals.



2. SET UP

CONTROL PANEL



- 1 LCD display shows the menu and selected functions
- Buttons:

 MENU To select the programming functions

 DOWN To go backward in the selected functions

 UP To go forward in the selected functions

 ENTER To confirm the selected functions
- (3) DMX IN 5-pin XLR cable to link DMX console
- (4) DMX OUT 5-pin XLR cable to link to the next unit
- 5 Power In connacts to power supply
- (6) Power Out connects to next fixture

MAIN FUNCTIONS

To select any functions, press the MENU button until the required one is shown on the display. Select the function by the ENTER button and the display will blink. Use the DOWN and UP button to change the mode. Once the required mode has been selected, press the ENTER button to setup or it will automatically return to the main functions without any change after idling one minute. Back to the functions without any change press the MENU button. The main functions are shown in **TABLE 1**.

USER MANUAL

TABLE 1.	MENU FUNC	CTIONS				
LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT
Address			000~512			(Default 001)
		LED Hours	XXXXXX h			
			Square Law Curve			(Default)
		Dimming Curve	S Law Curve			
			Linear Law Curve			
		Output / Fan Mode	Standard			(Default)
			Studio			
			Whisper			
		D: : 0 1	Fast			
		Dimming Speed	Slow			(Default 001) (Default)
			Square Law Curve S			
			Green			
		White Balance	Blue			
			Amber			
	LED		Reset to default			
			900Hz			
			910Hz			
			920Hz			
Configure			930Hz			
			940Hz			
		Frequency	950Hz			
			-			
			-			
						(Default)
		2500Hz				
			4000Hz			
			Up			(Default)
		Orientation				
		On time	30 sec			(Default)
	Display					
			10 min		-	
			<u> </u>		-	
	Reset Defaults	Are you sure?	I			
		Ch 1 - Intensity XXX (Value)				
	Data	Ch 2 - Intensity Fi				
		All functions				
		16-bit			(De	
DMX	DMX Mode	8-bit				
	2	Color 8-bit				
		Last output hold				
	No Data					

TABLE 1.	MENU FUNC	CTIONS				
LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT
	Status	(No Errors or disp	lays a list of error	s)		
	Reboot Fixture	Are you sure?				
	Version	VXXX		MM/DD/YY	HH:MM	
Fixture	Fixture Hours	XXXXXX h				
T IXCUIT	Crossload (software)	Send				
	Service	Fan Check				
		LED Temp				
	Intensity	Value 0 - 255			(Default 0)	
Manual Control	Intensity fine	Value 0 - 255			(Default 0)	
	All functions	All functions			(Default 0)	
Test	All Test	(Run 'ALL TEST')				

Address

Address — DMX address setting. To select DMX Address, press the ENTER button to confirm. Use the UP/DOWN button to adjust the address from 001 to 512, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

Configure

To select Configure, press the ENTER button to confirm, use the UP/DOWN button to select LED, Display or Reset Defaults.

LED

To select LED, press the ENTER button to confirm. Use the UP/DOWN button to select LED

Hours, Dimming Curve, Output / Fan Mode or Frequency

Press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

LED Hours — Select LED Hours, press the ENTER button to confirm, LED Hours will show on the display, press the MENU button back to exit.

Dimming Curve — To select Dimming Curve, press the ENTER button to confirm. Use the UP/DOWN button to select Square Law Curve, S Law Curve or Linear Law Curve, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

Output / Fan Mode — To select Output / Fan Mode, press the ENTER button to confirm. Use the UP/DOWN button to select Standard, Studio, Whisper or Silent, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

Dimming Speed — To select Dimming Speed, press the ENTER button to confirm. Use the UP/DOWN button to select Fast or Slow, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

White Balance — To select White Balance, press the ENTER button to confirm. Use the UP/DOWN button to select Red, Green, Blue or Reset to defult, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

Frequency — To select Frequency, press the ENTER button to confirm. Use the UP/DOWN button to select 900Hz, 910Hz, 920Hz, 930Hz, 940Hz, 950Hz, 960Hz, 970Hz, 980Hz, 990Hz, 1000Hz, 1500Hz, 2500Hz, 4000Hz press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

Display — Select Display, press the ENTER button to confirm, On Time will show on the display, press the ENTER button to store. Use the UP/DOWN button to select 30 Sec, 5 Min10 Min or On, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

Reset Defaults — Select Reset Defaults, press the ENTER button to confirm, Are you sure? will show on the display, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

DMX

To select DMX, press the ENTER button to confirm, use the UP/DOWN button to select Data or DMX Mode.

Data — To select Data, press the ENTER button to confirm. Use the UP/DOWN button to select Ch 1 - Intensity, Ch 2 - Intensity Fine All functions, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

DMX Mode — To select DMX Mode, press the ENTER button to confirm. Use the UP/DOWN button to select 16-bit, 8-bit or Color Mode, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

No Data — To select No Data, press the ENTER button to confirm. Use the UP/DOWN button to select Last output hold or Black out, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

Fixture

To select Fixture, press the ENTER button to confirm, use the UP/DOWN button to select Status, Reboot Fixture, Fixture Hours, Crossload (Software), Service or DMX Mode.

Status

Select Status, press the ENTER button to confirm, Status will show on the display, press the MENU button back to exit.

Reboot Fixture

Select Reboot Fixture, press the ENTER button to confirm, Are you sure? will show on the display, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

Version

Select Version, press the ENTER button to confirm, Version will show on the display, press the MENU button back to exit.

Fixture Hours

Select Fixture Hours, press the ENTER button to confirm, Fixture Hours will show on the display, press the MENU button back to exit.

Crossload (Software)

Select Crossload (Software), press the ENTER button to confirm, Send will show on the display, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

NOTE: Incoming DMX must be removed from the fixture or software crossload will not be activated

Service

To select Service, press the ENTER button to confirm. Use the UP/DOWN button to select Service Settings or Diagnostics, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

Optics Offset

Select Optics Offset, press the ENTER button to confirm, Zoom will show on the display, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

Diagnostics

To select Diagnostics, press the ENTER button to confirm. Use the UP/DOWN button to select Fan Check, Board Check ,Sensor Check or Led Temp, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

Manual Control

Enter menu mode, select Manual Control, press the ENTER button to confirm, use the UP/DOWN button to select Intensity, Intensity fine...All functions. Use the UP/DOWN button to adjust the value from 0 to 255, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

Manual Control

Enter menu mode, select Manual Control, press the ENTER button to confirm, use the UP/DOWN button to select Intensity, Intensity fine ...All functions. Use the UP/DOWN button to adjust the value from 0 to 255, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

Test

Enter menu mode, select Test, press the ENTER button to confirm, use the UP/DOWN button to select All Test or Test Channel.

All Test

Select All Test, press the ENTER button to confirm, the unit will run all test. Press the MENU button back to the last menu or exit menu mode after auto test.

Test Channel

To select Test Channel, press the ENTER button to confirm, the present channel will show on the display, use the UP/DOWN button to select channel Intensity ...All fuctions, press the ENTER button to confirm, then use the UP/DOWN button to adjust the value, press the ENTER button to store, the fixture will run as the channel value indicates. Press the MENU button back to the last menu or exit menu mode idling one minute.

HOW TO CONTROL THE FIXTURE

The fixture can be operated by DMX controller.

DMX512 CONFIGURATION

TABLE 2. 16-BIT CHANNEL MODE

CHANNEL	FUNCTION	VALUE	DESCRIPTION
1	Intensity high	0-65535	16-bit control of dimming
2	Intensity low	0-65555	
3	Red high	0-65535	16-bit control of color
4	Red low	0-65555	10-DIL CONTROL OF COLOR
5	Green high	0-65535	16-bit control of color
6	Green low	0-65555	
7	Blue high	0.65575	16-bit control of color
8	Blue low	0-65535	10-DIL CONTROL OF COLOR
9	Amber high	0-65535	16-bit control of color
10	Amber low	0-05555	10-DIL CONTROL OF COLOR

TABLE 2. 16-BIT CHANNEL MODE

CHANNEL	FUNCTION	VALUE	DESCRIPTION
CHANNEL	FUNCTION		
11	Color preset	000-068 069-070 071-072 073-074 075-076 077-078 079-080 081-082 083-084 085-086 087-088 089-090 091-092 093-094 095-096 097-098 099-100 101-102 103-104 105-106 107-108 109-110 111-112 113-114 115-116 117-118 119-120 121-122 123-124 125-126 127-128 129-130 131-132 133-134 135-136 137-138 139-140 141-142 143-144 145-146 147-148 149-150 151-152 153-154 155-156 157-187 188-208 209-229 230-255	Channel OFF CF_0_Color OFF CF_1_White 10000K CF_2_White 8000K CF_3_White 6500K CF_3_White 5600K CF_5_White 5600K CF_5_White 5000K CF_6_White 4500K CF_6_White 4500K CF_1_White 3200 CF_9_White 3000K CF_10_White 2700K CF_11_Moroccan Pink CF_12_Pink CF_13_Flesh Pink CF_14_Bright Rose CF_15_Follies Pink CF_16_Fuchsia Pink CF_18_Congo Blue CF_19_Blue CF_20_Virgin Blue CF_21_Midnight Maya CF_22_Dluble C.T Blue CF_23_Slate Blue CF_24_Regal Blue CF_25_Fullt C.T Blue CF_25_Fullt C.T Blue CF_26_Steel Blue CF_27_Lighter Blue CF_27_Lighter Blue CF_29_Marine Blue CF_30_Soft Green CF_33_Seren CF_33_Fene CF_33_Fene CF_33_Fene CF_33_Fene CF_33_Fene CF_33_Fene CF_34_JAS Green CF_35_Pale Green CF_36_Spring Yellow CF_37_Yellow CF_38_Deep Amber CF_39_Chrome Orange CF_41_Magenta CF_42_Flame Red CF_43_Purple Rotate CW Fast Slow Random Color Fast Slow Channel off
12	Strobe speed	000-255	0.5 Hz to 30Hz
13	Strobe control	000-005 006-010 011-015 016-020 021-025 026-255	Open Closed Normal Strobe Random Strobe Random Sync Reserved Values

TABLE 2. 16-BIT CHANNEL MODE

CHANNEL	FUNCTION	VALUE	DESCRIPTION		
14	Control channel	000-005 006-010 011-015 016-020 021-025 026-030 031-035 036-040 041-045 046-050 051-055 056-060 061-065 066-070 071-075 076-080 081-085 086-090 091-100 101-110 111-120 121-130 131-255	Idle(Default) Full Luminaire ReCal Reserved Values Reserved Values Fixture Shutdow Display - Menu ON Display - Menu OFF Dimming Curve Linear Dimming Curve S-Curve Dimming Curve Square Curve (Default)** Reserved Values Reserved Values Dimmer Snap On Dimmer Snap Off (Default) Reserved Values Standard Mode Studio Mode Whisper Mode Reserved Values Fan On (Default) Fan Auto Reserved Values		

TABLE 3. 8-BIT CHANNEL MODE

CHANNEL	1	ANNEL MODE	DESCRIPTION
CHANNEL	FUNCTION	VALUE	DESCRIPTION
1	Intensity	0-255	8-bit control of dimming
2	Red	0-255	8-bit control of color
3	Green	0-255	8-bit control of color
4	Blue	0-255	8-bit control of color
5	Amber	0-255	8-bit control of color
6	Color preset	0-255 000-068 069-070 071-072 073-074 075-076 077-078 079-080 081-082 083-084 085-086 087-088 089-090 091-092 093-094 095-096 097-098 099-100 101-102 103-104 105-106 107-108 109-110 111-112 113-114 115-116 117-118 119-120 121-122 123-124 125-126 127-128 129-130 131-132 133-134 135-136 137-138 139-140 141-142 143-144 145-146 147-148 149-150 151-152 153-154 155-156 157-187 188-208 209-229 230-255	Channel OFF CF_0_Color OFF CF_1_White 10000K CF_2_White 8000K CF_3_White 6500K CF_4_White 5600K CF_4_White 5600K CF_5_White 5000K CF_6_White 4500K CF_6_White 3200 CF_9_White 3200 CF_9_White 3000K CF_10_White 2700K CF_11_Moroccan Pink CF_12_Pink CF_13_Flesh Pink CF_14_Bright Rose CF_15_Follies Pink CF_16_Fuchsia Pink CF_17_Surprise Pink CF_19_Blue CF_20_Virgin Blue CF_20_Virgin Blue CF_21_Midnight Maya CF_22_Dluble C.T Blue CF_23_Slate Blue CF_24_Regal Blue CF_24_Regal Blue CF_25_Fullt C.T Blue CF_25_Fullt C.T Blue CF_26_Steel Blue CF_29_Marine Blue CF_29_Marine Blue CF_30_Soft Green CF_31_Moss Green CF_33_Fem Green CF_33_Fem Green CF_33_Fem Green CF_34_JAS Green CF_35_Pale Green CF_35_Pale Green CF_36_Spring Yellow CF_37_Yellow CF_38_Deep Amber CF_39_Chrome Orange CF_40_Orange CF_41_Magenta CF_42_Flame Red CF_43_Purple Rotate CW Fast Slow Random Color Fast Slow Channel off
7	Strobe speed	000-255	0.5Hz to 30Hz
8	Strobe control	000-005 006-010 011-015 016-020 021-025 026-255	Open Closed Normal Strobe Random Strobe Random Sync Reserved Values

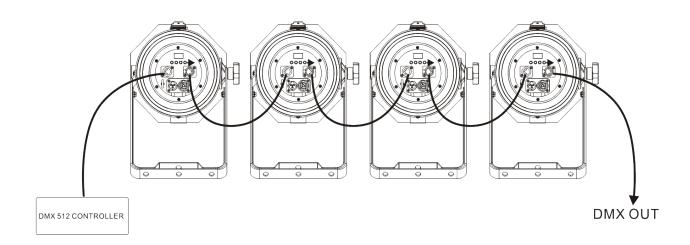
TABLE 3. 8-BIT CHANNEL MODE

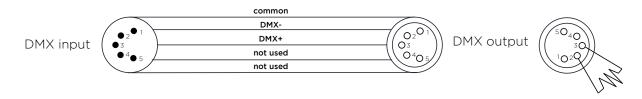
CHANNEL	FUNCTION	VALUE	DESCRIPTION
9	Control channel	000-005 006-010 011-015 016-020 021-025 026-030 031-035 036-040 041-045 046-050 051-055 056-060 061-065 066-070 071-075 076-080 081-085 086-090 091-100 101-110 111-120 121-130 131-255	Idle(Default) Full Luminaire ReCal Reserved Values Reserved Values Fixture Shutdow Display - Menu ON Display - Menu OFF Dimming Curve Linear Dimming Curve S-Curve Dimming Curve Square Curve (Default)** Reserved Values Reserved Values Dimmer Snap On Dimmer Snap Off (Default) Reserved Values Reserved Values Standard Mode Studio Mode Studio Mode Whisper Mode Reserved Values Fan On (Default) Fan Auto Reserved Values

TABLE 4. 8-BIT COLOR MODE

CHANNEL	FUNCTION	VALUE	DESCRIPTION
1	Red	0-255	8-bit control of color
2	Green	0-255	8-bit control of color
3	Blue	0-255	8-bit control of color
4	Amber	0-255	8-bit control of color

DMX512 CONNECTION





- At last unit, the DMX cable has to be terminated with a terminator. Solder a 120Ω 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 5-pin XLR-plug and plug it in the DMX-output of the last unit.
- Connect the unit together in a `daisy chain` by XLR plug from the output of the unit to the input of the next unit. The cable can not branched or split to a `Y` cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
- The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.
- Each lighting unit needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).
- The end of the DMX 512 system should be terminated to reduce signal errors.
- 5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin 4/Pin 5: Not used.

MAINTENANCE

TROUBLESHOOTING

Following are a few common problems that may occur during operation.

The unit does not work - light and fan do not turn on.

- Check the connection of power and main fuse.
- Measure the mains voltage on the main connector.

Not responding to DMX controller

- DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
- If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
- If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
- Try to use another DMX controller.
- Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

CLEANING

The cleaning of internal must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the fixture's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 30 days.

TECHNICAL SPECFICATIONS

Refer to the product data sheet available for download on www.vari-lite.com.

IMPORTANT INFORMATION

WARNINGS AND NOTICES

When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

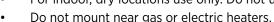
- For indoor, dry locations use only. Do not use outdoors.
- ϵ











- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Not for residential use. Do not use this equipment for other than intended use.
- Refer service to qualified personnel.

SAVE THESE INSTRUCTIONS.



WARNING: You must have access to a main circuit breaker or other power disconnect device before installing any wiring. Be sure that power is disconnected by removing fuses or turning the main circuit breaker off before installation. Installing the device with power on may expose you to dangerous voltages and damage the device. A qualified electrician must perform this installation.



WARNING: Refer to National Electrical Code® and local codes for cable specifications. Failure to use proper cable can result in damage to equipment or danger to personnel.



WARNING: This equipment is intended for installation in accordance with the National Electric Code® and local regulations. It is also intended for installation in indoor applications only. Before any electrical work is performed, disconnect power at the circuit breaker or remove the fuse to avoid shock or damage to the control. It is recommended that a qualified electrician perform this installation.

CUSTOMER SERVICE

If you have any questions regarding this product, please contact Customer Service at +1-214-647-7880 or via e-mail at **entertainment.service@signify**.

LIMITED 2-YEAR WARRANTY

Vari-Lite offers a two-year limited warranty on its control products against defects in materials or workmanship from the date of delivery. A copy of Vari-Lite two-year limited warranty containing specific terms and conditions can be obtained from the Vari-Lite website at **www.vari-lite.com** or by contacting your local Vari-Lite office.

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