



VARI*LITE

VL800

EVENTPROFILE

USER MANUAL

INTRODUCTION

OUR GOAL

We are committed to providing you the highest quality in customer service. Our comprehensive resources are available to help your business succeed and ensure you get the full benefit of being a Vari-Lite customer.

TECHNICAL SUPPORT

Our Service and Support team is tasked with online and field support, repair, demo, commissioning, maintenance contracts, and technical training for fixtures and systems. In addition, this team plays a large role in a Systems sales, responsible for administering final commissioning, record-keeping, and organizing services. Refer to the back cover of this User Manual for contacts in your region or visit www.vari-lite.com/support.

CUSTOMER SERVICE

Customer Service is responsible for boxed goods and spare parts quotations, order entry and fulfilment, project delivery, lead times, and general account management. They also manage all after sales warranty fulfilment, RGA, and repairs invoicing in tandem with our After Sales Service & Support team. Visit our website to find a customer service agent in your region.

ADDITIONAL DOCUMENTATION

Additional product documentation, including DMX maps, software, and photometric reports, are available for download on our website.

For more information on installing DMX512 control systems, the following publication is available for purchase from the United States Institute for Theatre Technology (USITT), "Recommended Practice for DMX512: A Guide for Users and Installers, 2nd edition" (ISBN: 9780955703522).

USITT Contact Information:

USITT

315 South Crouse Avenue, Suite 200

Syracuse, New York 13210-1844 USA

Phone: 800-938-7488 or +1-315-463-6463

Fax: 866-398-7488 or +1-315-463-6525

Website: www.usitt.org

ABOUT THIS DOCUMENT

Read all instructions before installing or using this product. Retain this User Manual for future reference.

Additional product information and descriptions may be found on the product data sheet(s) which can be downloaded from the Vari-Lite website at www.vari-lite.com.

This User Manual provides necessary information regarding safety, installation, operation and routine maintenance for Vari-Lite VL800. Familiarizing yourself with this information will help you to get the most out of your product.

WARNING: It is important to read ALL accompanying safety and installation instructions to avoid damage to the product and potential injury to yourself or others.

SAFETY WARNINGS AND NOTICES

Read this user manual in full before attempting to install, operate or maintain the fixture to which it relates. This user manual is intended to provide general guidance to such suitably qualified personnel. Installation and operation of the fixture are to be performed by qualified personnel only.

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

READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

- For indoor, dry location use only. Do not use outdoors unless fixture is suitably IP rated.
- Use safety tether when mounting.
- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- Not for residential use. Do not use this equipment for other than intended use.
- Note distance requirement(s) from combustible materials or illuminated objects. Do not mount near gas or electric heaters.
- Install only in locations with adequate ventilation. Ensure sure that ventilation slots are not blocked.
- Ensure that the voltage and frequency of the power supply match the power requirements of the fixture.
- The fixture must be earthed/grounded to the appropriate conductor.
- Do not operate fixture outside the specified ambient temperature range.
- Do not connect the fixture to any dimmer pack.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition and void warranty.
- Refer service to qualified personnel. This fixture contains no user serviceable parts.
- Prior to first use, carefully inspect fixture to ensure no damage has occurred during shipping.
- Materials used in the manufacturing process can cause strong odors when the product is new. These odors dissipate over time.
- Prior to each use, carefully inspect power cables and replace any damaged cables.
- Exterior surfaces of the luminaire will be hot during operation. Take appropriate precautions.
- Continuous use of the fixture may shorten the lifespan. Power down the fixture when not in use.
- Do not cycle power on and off repeatedly. Disconnect mains power if the fixture is not used for an extended period.
- Clean fixtures regularly, particularly when working in a dusty environment.
- Never touch power cables or wires while the fixture is powered on.
- Avoid entangling power wires with other cables.
- In the event of a serious operating problem, immediately discontinue using the fixture.
- It is hazardous to operate luminaires without lens or shield. Shields, lenses, or ultraviolet screens shall be changed if they have become visibly damaged to such an extent that their effectiveness is impaired, for example, by cracks or deep scratches.
- Original packing materials can be reused for transporting the fixture.
- Do not look directly at the LED light beam while the fixture is on.
- This is a Class A product. In a domestic environment this product may cause radio interference, in which case, the user may be required to take adequate measures.
- The light source contained in this luminaire shall only be replaced by the manufacturer or service agent or similarly qualified person.

SAVE THESE INSTRUCTIONS.

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. Caution Against Direct Sunlight Through Front Lens Assembly

COMPLIANCE NOTICE



FCC DECLARATION OF CONFORMITY

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when this equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with Vari-Lite system, service, and safety guidelines, may cause harmful interference to radio communications.

As tested under this standard:

FCC 47CFR 15B cIA*CEI

Issued:2009/10/01 Title 47 CFR Part 15 Subpart B Unintentional Radiators Class A

Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his/her own expense.



EU DECLARATION OF CONFORMITY

We, Vari-Lite LLC., 10911 Petal Street, Dallas, Texas 75238, declare under our responsibility for the products contained herein are in conformity with the essential requirements of the following European Directives and harmonized standards:

Low Voltage Director (LVD), 2006/95/EC

EN 60589-2-17:1984+A1:1987+A2:1990 used in conjunction with 60598-1:2008/A11:2009

Electromagnetic Compatibility Directive (EMC), 2004//108/EC

EN 55022:2010, EN55024:2010

HOW TO OBTAIN WARRANTY SERVICE

A copy of the Limited Warranty card was included in the shipping package for this product.

To obtain warranty service, please contact customer service at 1-214-647-7880, or **entertainment.service@signify.com** and request a Return Material Authorization (RMA) for warranty service. You will need to provide the model and serial number of the item being returned, a description of the problem or failure and the name of the registered user or organization. If available, you should have your sales invoice to establish the date of sale as the beginning of the warranty period. Once you obtain the RMA, pack the unit in a secure shipping container or in its original packing box. Be sure to clearly indicate the RMA number on all packing lists, correspondence, and shipping labels. If available, please include a copy of your invoice (as proof of purchase) in the shipping container.

With the RMA number written legibly on or near the shipping address label, return the unit, freight prepaid, to:

Vari-Lite LLC
Attention: Warranty Service (RMA# _____)
10911 Petal Street
Dallas, Texas 75238
USA

As stated in the warranty, it is required that the shipment be insured and FOB our service center.

IMPORTANT! When returning products to Vari-Lite for repairs (warranty or out-of-warranty) from a country other than the USA, “Vari-Lite LLC”, must appear in the address block as the Importer of Record (IOR) on all shipping documentation, Commercial Invoices, etc. This must be done in order to clear customs in a timely manner and prevent returns.

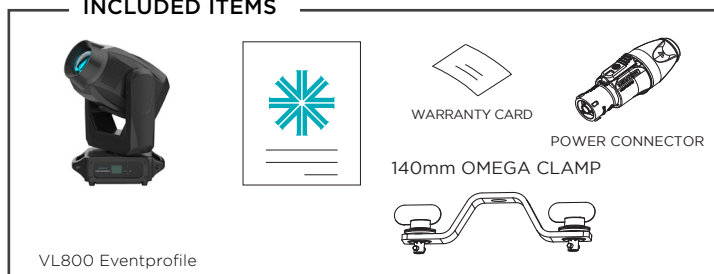
1 DESCRIPTION

FEATURES

- High output LED
- Full CMY-CTO color mixing
- Static and rotating gobo wheels, prism, frost, and iris
- Multi-mode fan control
- Adjustable frequency to exceed camera frame rates

Download the product datasheet from the Vari-Lite website at www.vari-lite.com for full technical specifications.

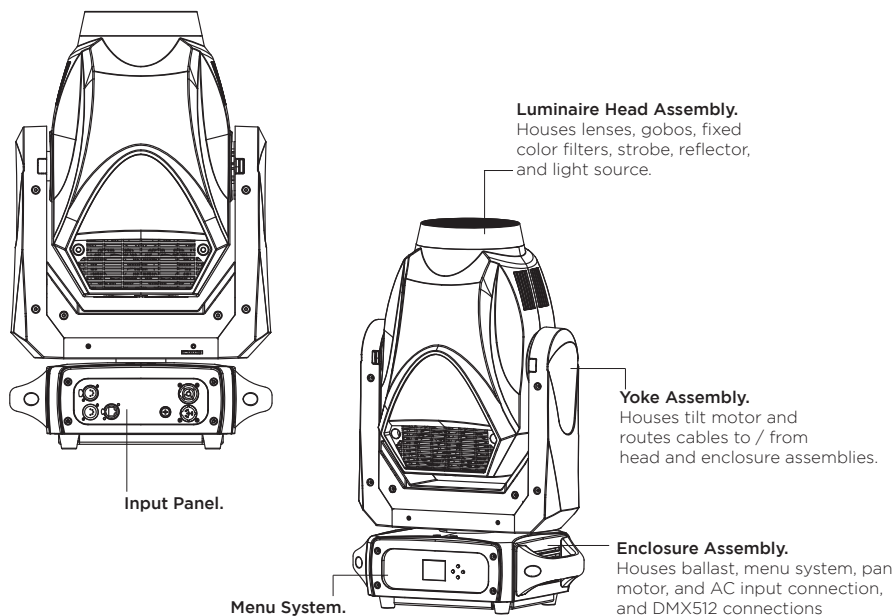
INCLUDED ITEMS



COMPONENTS

LUMINAIRE OVERVIEW

The following illustration shows the external luminaire components and controls.

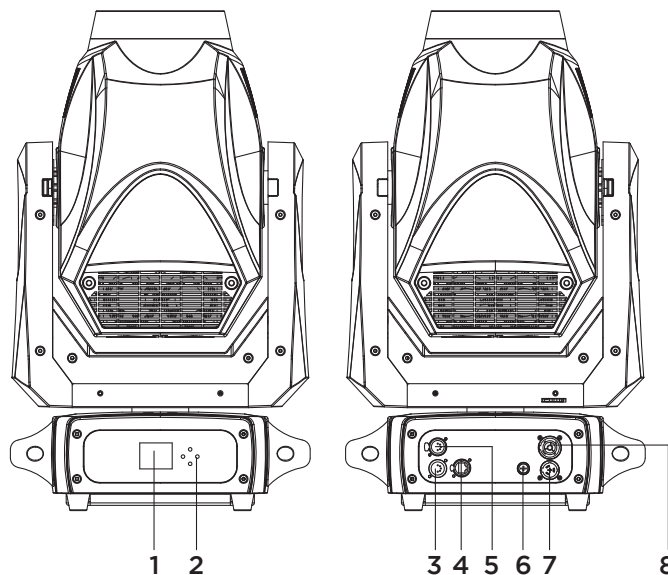
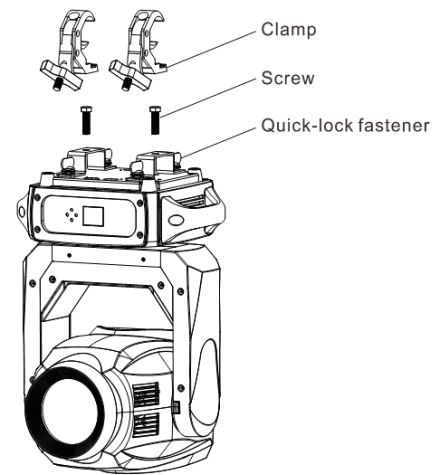


2 INSTALLATION

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 can support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture. Use M12 screw to fasten the clamp to the Quick-lock fastener.

The equipment must be installed by professionals. And it must be installed at a place where is out of the touch of people and has no one pass by or under it.



1 Display. Shows menu and selected functions

2 Buttons.

- MENU To select the programming functions
- UP To go backward in the selected functions
- DOWN To go forward in the selected functions
- ENTER To confirm the selected functions

3 DMX/RDM input. Connectors for DMX 512 operation, 5-pin XLR cable to link the DMX console

4 DMX/RDM thru. Connectors for DMX 512 operation, 5-pin XLR cable to link the next unit

5 Ethernet. Transfers fixture's information to a main controller

6 Fuse (T 10A). Protects the unit from damage of overcurrent

7 Power Input. Connects to supply power.

8 Power Thru. Connects to the next fixture.

3 DMX MAPPING

DMX CHANNELS

CHANNEL MAPPING

The following tables assumes a DMX start address of 1. When a different starting address is used, this address becomes channel 1 function and other functions follow in sequence.

TABLE 1.16-BIT ENHANCED

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
1	Intensity High	0	0-65535	16-bit control of Dimming
2	Intensity Low			
3	Pan High	32767	0-65535	540° Total Pan Rotation
4	Pan Low			
5	Tilt High	32767	0-65535	270° Total Tilt
6	Tilt Low			
7	Focus High	32767	0-65535	Focus control Default value 50% Focus range
8	Focus Low			
9	Zoom High	128	0-255	Zoom control Default value 50% zoom range
10	Cyan	0	0 - 255	Cyan Color Control 0-100% saturation
11	Yellow	0	0 - 255	Yellow Color Control 0-100% saturation
12	Magenta	0	0 - 255	Magenta Color Control 0-100% saturation
13	CTO	0	0 - 255	CTO Color correction Control 0-100% saturation
14	Color Wheel	0	0 - 255 0-31 Open 32-63 VL RED Centre - 48 64-95 Dark Blue Centre - 80 96-127 Yellow Centre - 112 128-159 Kelly Green Centre - 144 160-191 Amber Centre 176 192-223 Congo Blue Centre 208 224-255 Open	8-bit control of Color Wheel. (spin speed slow to fast from control channel) OPEN (centered at 0)
15	Color Wheel Control	0	0 - 255 0 - 5 Linear Movement using shortest (quickest) path. 6 - 10 Linear Movement using normal (longest) path. 11 - 15 Wheel Spin CW (Forward) 16 - 20 Wheel Spin STOP 21 - 25 Wheel Spin CCW (Reverse) 26 - 56 Color Shake Quickest Path (Slow to Fast) For fastest shake set color timing to 0 57 - 87 Color Shake Normal Path (Slow to Fast) For fastest shake set color timing to 0 88 - 255 Reserved Values	

TABLE 1.16-BIT ENHANCED

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
16	Gobo Wheel 1	0	0 - 255	8-bit control of Gobo Wheel 1. See Channel 20 for control options. Interchangeable glass gobos
			0 - 5	Open - No Gobo
			6 - 10	Gobo 1 (Night Sky) Index
			11 - 15	Gobo 2 (Circle of Ovals) Index
			16 - 20	Gobo 3 (Bricked Out) Index
			21 - 25	Gobo 4 (Neurons) Index
			26 - 30	Gobo 5 (Swirl) Index
			31 - 35	Gobo 6 (Crossed-Bars) Index
			36 - 40	Gobo 7 (On the Rock) Index
			41 - 45	Open - No Gobo
			46 - 50	Gobo 1 (Night Sky) Rotate
			51 - 55	Gobo 2 (Circle of Ovals) Rotate
			56 - 60	Gobo 3 (Bricked Out) Rotate
			61 - 65	Gobo 4 (Neurons) Rotate
			66 - 70	Gobo 5 (Swirl) Rotate
			71 - 75	Gobo 6 (Crossed-Bars) Rotate
			76 - 80	Gobo 7 (On the Rock) Rotate
			81 - 85	Open - No Gobo
			86 - 90	Gobo 1 (Night Sky) Rotate with Mega Stepping
			91 - 95	Gobo 2 (Circle of Ovals) Rotate with Mega Stepping
			96 - 100	Gobo 3 (Bricked Out) Rotate with Mega Stepping
			101 - 105	Gobo 4 (Neurons) Rotate with Mega Stepping
			106 - 110	Gobo 5 (Swirl) Rotate with Mega Stepping
			111 - 115	Gobo 6 (Crossed-Bars) Rotate with Mega Stepping
			116 - 120	Gobo 7 (On the Rock) Rotate with Mega Stepping
			121 - 255	Reserved Values
17	Gobo 1 Rot/Index High Byte	32767	0 - 65535	16-bit control of index and rotation of gobo wheel 1.
			0 - 32756	Rotate Fast to Slow <<<
18	Gobo 1 Rot/Index Low Byte		32757 - 32780	Rotation STOP
			32781 - 65535	Rotate Slow to Fast >>>
19	Gobo Wheel 1 Control	0	0 - 255	Used as a control channel for different movement options for Gobo Wheel 1 (Channel 17)
			0 - 5	Gobo Selection using shortest (quickest) path.
			6 - 10	Gobo Selection using normal (longest) path.
			11 - 20	Reserved Values
			21 - 50	Wheel Spin CW Forward (Fast to Slow)
			51 - 60	Wheel Spin STOP
			61 - 90	Wheel Spin CCW Reverse (Slow to Fast)
			91 - 120	Gobo Shake Quickest Path (Slow to Fast) For fastest shake set gobo timing to 0
			121 - 150	Gobo Shake Normal Path (Slow to Fast) For fastest shake set gobo timing to 0
			151 - 180	Gobo Twist Quickest Path (Slow to Fast) For fastest twist set gobo timing to 0
			181 - 210	Gobo Twist Normal Path (Slow to Fast) For fastest twist set gobo timing to 0
			211 - 255	Reserved Values

TABLE 1.16-BIT ENHANCED

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
20	Gobo Wheel 2 (Fixed)	0	0-255	8-bit control of Gobo Wheel for movement options see channel 22 Single metal stamped wheel
			0-25	Open - No Gobo
			26-51	Gobo 1 (Leafy Breakup)
			52-77	Gobo 2 (Honeycomb)
			78-103	Gobo 3 (Radial Breakup)
			104-129	Gobo 4 (Grid)
			130-155	Gobo 5 (Circle of dots)
			156-181	Gobo 6 (Punchcard)
			182-207	Gobo 7 (Vertical bars)
			208-233	Gobo 8 (Medium Circle)
			234 - 255	Open - No Gobo
21	Gobo Wheel 2 Control	0	0 - 255	Used as a control channel for different movement options for Gobo Wheel 2 (Channel 21)
			0 - 5	Gobo Selection using shortest (quickest) path.
			6 - 10	Gobo Selection using normal (longest) path.
			11 - 20	Reserved Values
			21 - 50	Wheel Spin CW Forward (Fast to Slow)
			51 - 60	Wheel Spin STOP
			61 - 90	Wheel Spin CCW Reverse (Slow to Fast)
			91 - 120	Gobo Shake Quickest Path (Slow to Fast) For fastest shake set gobo timing to 0
			121 - 150	Gobo Shake Normal Path (Slow to Fast) For fastest shake set gobo timing to 0
			151 - 180	Reserved Values
			181 - 210	Reserved Values
			211 - 255	Reserved Values
22	Iris	0	0-255	Iris size control
			0 - 200	Iris beam size open to closed
			201 - 255	Iris pulse slow to fast
23	Frame 1A	0	0 - 255	Controls Framing Shutter 1A from Open to Full (DMX 0-255).
24	Frame 1B	0	0 - 255	Controls Framing Shutter 1B from Open to Full (DMX 0-255).
25	Frame 2A	0	0 - 255	Controls Framing Shutter 2A from Open to Full (DMX 0-255).
26	Frame 2B	0	0 - 255	Controls Framing Shutter 2B from Open to Full (DMX 0-255).
27	Frame 3A	0	0 - 255	Controls Framing Shutter 3A from Open to Full (DMX 0-255).
28	Frame 3B	0	0 - 255	Controls Framing Shutter 3B from Open to Full (DMX 0-255).
29	Frame 4A	0	0 - 255	Controls Framing Shutter 4A from Open to Full (DMX 0-255).
30	Frame 4B	0	0 - 255	Controls Framing Shutter 4B from Open to Full (DMX 0-255).
31	Frame Rotate	128	0 - 255	Controls Framing Shutter mechanism from +/- 90°
32	Triangular Prism	0 - 255	0 - 255	Controls Prism mechanism with following values.
			0 - 5	Open
			6 - 10	Index
			11 - 15	Rotate Normal
			16 - 20	Rotate with Mega Stepping
			21 - 255	Reserved Values

TABLE 1.16-BIT ENHANCED

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
33	Prism Index/Rot High Byte	32767	0 - 65535	16-bit control of prism rotation and index.
			0 - 32756	Rotate Fast to Slow <<<
34	Prism Index/Rot Low Byte		32757 - 32780	Rotation STOP
			32781 - 65535	Rotate Slow to Fast >>>
35	Frost	0	0-255	Linear control of frost mechanism from out to full in (DMX 0-255)
36	Strobe Speed	128	0 - 255	Controls strobe rate from slowest (DMX 0) to fastest (DMX 255) 0.5Hz to 30Hz
37	Strobe Control	0	0 - 255	Control Channel for strobing functions. Set discrete value of desired effect
			0 - 5	Open
			6 - 10	Closed
			11 - 15	Normal Strobe
			16 - 20	Random Strobe
			21 - 25	Random Sync
			26 - 255	Reserved Values
38	Programmers Channel	0	0-40	Functions do not require 3 second DMX rule. mode will change once DMX level is reached Idle
			41 - 45	Dimming Curve Linear
			46 - 50	Dimming Curve S-Curve
			51 - 55	Dimming Curve Square Curve (Default)**
			56 - 60	Dimmer Snap On
			61 - 65	Dimmer Snap Off (Default)
			66 - 70	Reserved Values
			71 - 75	Reserved Values
			76 - 80	Edge Tracking on
			81 - 85	Edge tracking off (Default)
			86 - 90	Reserved Values
			91 - 95	Color Snap off (Default)
			96 - 100	Color Snap on (de-activates color timing channel)
			101 - 255	Reserved Values
39	Focus Timing	255	0 - 255	Adjustment of fixture timing to control Pan/Tilt mechanisms. See Timing Channel
40	Optics Timing	255	0 - 255	Adjustment of fixture timing to control lensing mechanisms. See Timing Channel
41	Color Timing	255	0 - 255	Adjustment of fixture timing to control color mechanisms. See Timing Channel
42	Beam Timing	255	0 - 255	Adjustment of fixture timing to control beam shaping mechanisms. See Timing Channel
43	Gobo Timing	255	0 - 255	Adjustment of fixture timing to control gobo mechanisms. See Timing Channel
44	Fan Control	0	0 - 255	Dynamically control fan speed vs LED Output operation. Control values as follows . . .
			0-4	Automatic fan/output adjustment (Default)
			05 - 255	Linear control of fan speed and LED max output* DMX 5 =Highest Constant Fan Speed (Standard mode) DMX 255 = Lowest Constant Fan Speed (Whisper mode) * Standard mode only function is dec-activated if Studio or Boost modes are selected via Dmx or User Interface

TABLE 1.16-BIT ENHANCED

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
45	Luminaire Control	0	0 - 255	Control Channel used for full fixture settings lamp controls Set discrete value of desired effect then set value to 0 (Idle).
			0 - 5	Idle (Default)
			6 - 10	Full Luminaire ReCal - Also Used to Wake fixture up from shutdown
			11 - 15	Fixture Shutdown
			16 - 20	Reserved Values
			21 - 25	Display - Menu ON
			26 - 30	Display - Menu OFF
			31 - 75	Reserved Values
			76 - 80	Display On
			81 - 85	Display Off
			86 - 90	Status Check (Turn UI Screen Green if fixture has no Error - Red if Error)
			91 - 105	Reserved Values
			106 - 110	Boost Mode - Fixture output increase with Higher fan speed No Fan control (44)
			111 - 115	Standard Mode
			116 - 120	Studio Mode - Reduced output with lower fan settings No Fan control (44)
			121 - 135	Reserved Values
			136 - 140	Fan On (Default) (Continuous spin rate)
			141 - 145	Fan Auto (Variable spin rate based on LED temperature)
			146 - 150	Reserved Values
			151 - 155	ReCal Position
			156 - 160	ReCal Color
			161 - 165	ReCal Beam
			166 - 170	ReCal Optics
			171-175	ReCal Gobo
			176 - 180	Reset fixture to default
			181 - 255	Reserved Values

TABLE 2. 16-BIT

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
1	Intensity High	0	0-65535	16-bit control of Dimming
2	Intensity Low			
3	Pan High	32767	0-65535	540° Total Pan Rotation
4	Pan Low			
5	Tilt High	32767	0-65535	270° Total Tilt
6	Tilt Low			
7	Focus High	32767	0-65535	Focus control
8	Focus Low			Default value 50% Focus range
9	Zoom High	128	0-255	Zoom control Default value 50% zoom range
10	Cyan	0	0 - 255	Cyan Color Control 0-100% saturation
11	Yellow	0	0 - 255	Yellow Color Control 0-100% saturation
12	Magenta	0	0 - 255	Magenta Color Control 0-100% saturation
13	CTO	0	0 - 255	CTO Color correction Control 0-100% saturation
14	Color Wheel	0	0 - 255 0-31 Open 32-63 VL RED Centre - 48 64-95 Dark Blue Centre - 80 96-127 Yellow Centre - 112 128-159 Kelly Green Centre - 144 160-191 Amber Centre 176 192-223 Congo Blue Centre 208 224-255 Open	8-bit control of Color Wheel (spin speed slow to fast from control channel) OPEN (centred at 0)
15	Color Wheel Control	0	0 - 255 0 - 5 Linear Movement using shortest (quickest) path. 6 - 10 Linear Movement using normal (longest) path. 11 - 15 Wheel Spin CW (Forward) 16 - 20 Wheel Spin STOP 21 - 25 Wheel Spin CCW (Reverse) 26 - 56 Color Shake Quickest Path (Slow to Fast) For fastest shake set color timing to 0 57 - 87 Color Shake Normal Path (Slow to Fast) For fastest shake set color timing to 0 88 - 255 Reserved Values	

TABLE 2. 16-BIT

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
16	Gobo Wheel 1	0	0 - 255	8-bit control of Gobo Wheel 1. See Channel 20 for control options. Interchangeable glass gobos
			0 - 5	Open - No Gobo
			6 - 10	Gobo 1 (Night Sky) Index
			11 - 15	Gobo 2 (Circle of Ovals) Index
			16 - 20	Gobo 3 (Bricked Out) Index
			21 - 25	Gobo 4 (Nurons) Index
			26 - 30	Gobo 5 (Swirl) Index
			31 - 35	Gobo 6 (Crossed-Bars) Index
			36 - 40	Gobo 7 (On the Rock) Index
			41 - 45	Open - No Gobo
			46 - 50	Gobo 1 (Night Sky) Rotate
			51 - 55	Gobo 2 (Circle of Ovals) Rotate
			56 - 60	Gobo 3 (Bricked Out) Rotate
			61 - 65	Gobo 4 (Nurons) Rotate
			66 - 70	Gobo 5 (Swirl) Rotate
			71 - 75	Gobo 6 (Crossed-Bars) Rotate
			76 - 80	Gobo 7 (On the Rock) Rotate
			81 - 85	Open - No Gobo
			86 - 90	Gobo 1 (Night Sky) Rotate with Mega Stepping
			91 - 95	Gobo 2 (Circle of Ovals) Rotate with Mega Stepping
			96 - 100	Gobo 3 (Bricked Out) Rotate with Mega Stepping
			101 - 105	Gobo 4 (Nurons) Rotate with Mega Stepping
			106 - 110	Gobo 5 (Swirl) Rotate with Mega Stepping
			111 - 115	Gobo 6 (Crossed-Bars) Rotate with Mega Stepping
			116 - 120	Gobo 7 (On the Rock) Rotate with Mega Stepping
			121 - 255	Reserved Values
17	Gobo 1 Rot/Index High Byte	32767	0 - 65535	16-bit control of index and rotation of gobo wheel 1.
			0 - 32756	Rotate Fast to Slow <<<
18	Gobo 1 Rot/Index Low Byte		32757 - 32780	Rotation STOP
			32781 - 65535	Rotate Slow to Fast >>>
19	Gobo Wheel 1 Control	0	0 - 255	Used as a control channel for different movement options for Gobo Wheel 1 (Channel 17)
			0 - 5	Gobo Selection using shortest (quickest) path.
			6 - 10	Gobo Selection using normal (longest) path.
			11 - 20	Reserved Values
			21 - 50	Wheel Spin CW Forward (Fast to Slow)
			51 - 60	Wheel Spin STOP
			61 - 90	Wheel Spin CCW Reverse (Slow to Fast)
			91 - 120	Gobo Shake Quickest Path (Slow to Fast) For fastest shake set gobo timing to 0
			121 - 150	Gobo Shake Normal Path (Slow to Fast) For fastest shake set gobo timing to 0
			151 - 180	Gobo Twist Quickest Path (Slow to Fast) For fastest twist set gobo timing to 0
			181 - 210	Gobo Twist Normal Path (Slow to Fast) For fastest twist set gobo timing to 0
			211 - 255	Reserved Values

TABLE 2. 16-BIT

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
20	Gobo Wheel 2 (Fixed)	0	0-255	8-bit control of Gobo Wheel for movement options see channel 22; Single metal stamped wheel
			0-25	Open - No Gobo
			26-51	Gobo 1 (Leafy Breakup)
			52-77	Gobo 2 (Honeycomb)
			78-103	Gobo 3 (Radial Breakup)
			104-129	Gobo 4 (Grid)
			130-155	Gobo 5 (Circle of dots)
			156-181	Gobo 6 (Punchcard)
			182-207	Gobo 7 (Vertical bars)
			208-233	Gobo 8 (Medium Circle)
			234 - 255	Open - No Gobo
21	Gobo Wheel 2 Control	0	0 - 255	Used as a control channel for different movement options for Gobo Wheel 2 (Channel 21)
			0 - 5	Gobo Selection using shortest (quickest) path.
			6 - 10	Gobo Selection using normal (longest) path.
			11 - 20	Reserved Values
			21 - 50	Wheel Spin CW Forward (Fast to Slow)
			51 - 60	Wheel Spin STOP
			61 - 90	Wheel Spin CCW Reverse (Slow to Fast)
			91 - 120	Gobo Shake Quickest Path (Slow to Fast) For fastest shake set gobo timing to 0
			121 - 150	Gobo Shake Normal Path (Slow to Fast) For fastest shake set gobo timing to 0
			151 - 180	Reserved Values
			181 - 210	Reserved Values
			211 - 255	Reserved Values
22	Iris	0	0-255	Iris size control
			0 - 200	Iris beam size open to closed
			201 - 255	Iris pulse slow to fast
23	Frame 1A	0	0 - 255	Controls Framing Shutter 1A from Open to Full (DMX 0-255).
24	Frame 1B	0	0 - 255	Controls Framing Shutter 1B from Open to Full (DMX 0-255).
25	Frame 2A	0	0 - 255	Controls Framing Shutter 2A from Open to Full (DMX 0-255).
26	Frame 2B	0	0 - 255	Controls Framing Shutter 2B from Open to Full (DMX 0-255).
27	Frame 3A	0	0 - 255	Controls Framing Shutter 3A from Open to Full (DMX 0-255).
28	Frame 3B	0	0 - 255	Controls Framing Shutter 3B from Open to Full (DMX 0-255).
29	Frame 4A	0	0 - 255	Controls Framing Shutter 4A from Open to Full (DMX 0-255).
30	Frame 4B	0	0 - 255	Controls Framing Shutter 4B from Open to Full (DMX 0-255).
31	Frame Rotate	128	0 - 255	Controls Framing Shutter mechanism from +/- 90°
32	Triangular Prism	0 - 255	0 - 255	Controls Prism mechanism with following values.
			0 - 5	Open
			6 - 10	Index
			11 - 15	Rotate Normal
			16 - 20	Rotate with Mega Stepping
			21 - 255	Reserved Values

TABLE 2. 16-BIT

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
33	Prism Index/Rot High Byte	32767	0 - 65535	16-bit control of prism rotation and index.
			0 - 32756	Rotate Fast to Slow <<<
34	Prism Index/Rot Low Byte		32757 - 32780	Rotation STOP
			32781 - 65535	Rotate Slow to Fast >>>
35	Frost	0	0-255	Linear control of frost mechanism from out to full in (DMX 0- 255)
36	Strobe Speed	128	0 - 255	Controls strobe rate from slowest to fastest (DMX 0-255) 0.5Hz to 30Hz
37	Strobe Control	0	0 - 255	Control Channel for strobing functions. Set discrete value of desired effect
			0 - 5	Open
			6 - 10	Closed
			11 - 15	Normal Strobe
			16 - 20	Random Strobe
			21 - 25	Random Sync
			26 - 255	Reserved Values
38	Programmers Channel	0	0-40	Functions do not require 3 second DMX rule. mode will change once DMX level is reached Idle
			41 - 45	Dimming Curve Linear
			46 - 50	Dimming Curve S-Curve
			51 - 55	Dimming Curve Square Curve (Default)**
			56 - 60	Dimmer Snap On
			61 - 65	Dimmer Snap Off (Default)
			66 - 70	Reserved Values
			71 - 75	Reserved Values
			76 - 80	Edge Tracking on
			81 - 85	Edge tracking off (Default)
			86 - 90	Reserved Values
			91 - 95	Color Snap off (Default)
			96 - 100	Color Snap on (de-activates color timing channel)
			101 - 255	Reserved Values
39	Fan Control	0	0 - 255	Dynamically control fan speed vs LED Output operation. Control values as follows . . .
			0-4	Automatic fan/output adjustment (Default)
				Linear control of fan speed and LED max output*
				DMX 5 =Highest Constant Fan Speed (Standard mode)
				DMX 255 = Lowest Constant Fan Speed (Whisper mode)
				* Standard mode only function is dec-activated if Studio or Boost modes are selected via Dmx or User Interface

TABLE 2. 16-BIT

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
40	Luminaire Control	0	0 - 255	Control Channel used for full fixture settings lamp controls. Set discrete value of desired effect then set value to 0 (Idle).
			0 - 5	Idle (Default)
			6 - 10	Full Luminaire ReCal - Also Used to Wake fixture up from shutdown
			11 - 15	Fixture Shutdown
			16 - 20	Reserved Values
			21 - 25	Display - Menu ON
			26 - 30	Display - Menu OFF
			31 - 75	Reserved Values
			76 - 80	Display On
			81 - 85	Display Off
			86 - 90	Status Check (Turn UI Screen Green if fixture has no Error - Red if Error)
			91 - 105	Reserved Values
			106 - 110	Boost Mode - Fixture output increase with Higher fan speed No Fan control (44)
			111 - 115	Standard Mode -
			116 - 120	Studio Mode - Reduced output with lower fan settings No Fan control (44)
			121 - 135	Reserved Values
			136 - 140	Fan On (Default) (Continuous spin rate)
			141 - 145	Fan Auto (Variable spin rate based on LED temperature)
			146 - 150	Reserved Values
			151 - 155	ReCal Position
			156 - 160	ReCal Color
			161 - 165	ReCal Beam
			166 - 170	ReCal Optics
			171-175	ReCal Gobo
			176 - 180	Reset fixture to default
			181 - 255	Reserved Values

TABLE 3. CLONE

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
1	Intensity High	0	0-65535	16-bit control of Dimming
2	Intensity Low			
3	Pan High	32767	0-65535	540° Total Pan Rotation
4	Pan Low			
5	Tilt High	32767	0-65535	270° Total Tilt
6	Tilt Low			
7	Focus High	32767	0-65535	Focus control Default value 50% Focus range
8	Focus Low			
9	Zoom High	128	0-255	Zoom control Default value 50% zoom range
10	Cyan	0	0 - 255	Cyan Color Control 0-100% saturation
11	Yellow	0	0 - 255	Yellow Color Control 0-100% saturation
12	Magenta	0	0 - 255	Magenta Color Control 0-100% saturation
13	CTO	0	0 - 255	CTO Color correction Control 0-100% saturation
14	Color Wheel	0	0 - 255 0-5 6-11 12-17 18-23 24-29 30-35 36-41 42-47 48-68 69-89 90-110 111-131 132-152 153-173 174-179 180-211 212-217 218-249 250-255	Color Wheel. Open Centered Color VL RED Center-9 Centered Color Dark Blue Center-15 Centered Color Yellow Center-21 Centered Color Kelly Green Center-27 Centered Color Amber Center-33 Centered Color Congo Blue Center-39 Variable position Open Center-45 Variable position VL RED Center-58 Variable position Dark Blue Center-79 Variable position Yellow Center-100 Variable position Kelly Green Center-121 Variable position Amber Center-142 Variable position Congo Blue Center-163 Variable position Open Center-177 Variable position Color Rotate Clockwise S>>>>>>F Center-196 Variable position Stop no Rotation Center-215 Variable position Color Rotate Counter Clockwise S<<<<<<<F Center-234 Variable position Open Center-253

TABLE 3. CLONE

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
15	Gobo Wheel 1	0		8-bit control of Gobo Wheel 1. See Channel 20 for control options. Index
			0-3	Open - No Gobo
			4-7	Gobo 1 (Night Sky) Index
			8-11	Gobo 2 (Circle of Ovals) Index
			12-15	Gobo 3 (Bricked Out) Index
			16-19	Gobo 4 (Nurons) Index
			20-23	Gobo 5 (Swirl) Index
			24-27	Gobo 6 (Crossed Bars) Index
			28-31	Gobo 7 (On the Rock) Index
			32-35	Open - No Gobo
			36-39	Gobo 1 (Night Sky) Rotate
			40-43	Gobo 2 (Circle of Ovals) Rotate
			44-47	Gobo 3 (Bricked Out) Rotate
			48-51	Gobo 4 (Nurons) Rotate
			52-55	Gobo 5 (Swirl) Rotate
			56-59	Gobo 6 (Crossed Bars) Rotate
			60-63	Gobo 7 (On the Rock) Rotate
			64-67	Open - No Gobo
			68-71	Gobo 1 (Night Sky) Rotate with Mega Stepping
			72-75	Gobo 2 (Circle of Ovals) Rotate with Mega Stepping
			76-79	Gobo 3 (Bricked Out) Rotate with Mega Stepping
			80-83	Gobo 4 (Nurons) Rotate with Mega Stepping
			84-87	Gobo 5 (Swirl) Rotate with Mega Stepping
			88-91	Gobo 6 (Crossed Bars) Rotate with Mega Stepping
			92-95	Gobo 7 (On the Rock) Rotate with Mega Stepping
			96-99	Open - No Gobo
			100-121	Gobo 1 (Night Sky) Rotate with Twist Slow >>>> Fast
			122-142	Gobo 2 (Circle of Ovals) Rotate with Twist Slow >>>> Fast
			143-163	Gobo 3 (Bricked Out) Rotate with Twist Slow >>>> Fast
			164-184	Gobo 4 (Nurons) Rotate with Twist Slow >>>> Fast
			185-205	Gobo 5 (Swirl) Rotate with Twist Slow >>>> Fast
			206-226	Gobo 6 (Crossed Bars) Rotate with Twist Slow >>>> Fast
			227-247	Gobo 7 (On the Rock) Rotate with Twist Slow >>>> Fast
			248-255	Open - No Gobo
16	Gobo 1 Rot/Index High Byte	32767	0 - 65535	16-bit control of index and rotation of gobo wheel 1.
			0 - 32756	Rotate Fast to Slow <<<
17	Gobo 1 Rot/Index Low Byte		32757 - 32780	Rotation STOP
			32781 - 65535	Rotate Slow to Fast >>>

TABLE 3. CLONE

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
18	Gobo Wheel 2 (Fixed)	0	0-255	8-bit control of Gobo Wheel for movement options see channel 22
			0	Open - No Gobo
			1	Gobo 1 (Leafy Breakup)
			2	Gobo 2 (Honeycomb)
			3	Gobo 3 (Radial Breakup)
			4	Gobo 4 (Grid)
			5	Gobo 5 (Circle of dots)
			6	Gobo 6 (Punchcard)
			7	Gobo 7 (Vertical Bars)
			8	Gobo 8 (Medium Circle)
			9	Open - No Gobo
			10 - 13	Gobo 1 (Leafy Breakup) Shake Fast >>>> Slow
			14 - 34	Gobo 2 (Honeycomb) Shake Fast >>>> Slow
			35 - 55	Gobo 3 (Radial Breakup) Shake Fast >>>> Slow
			56 - 76	Gobo 4 (Grid) Shake Fast >>>> Slow
			77 - 97	Gobo 5 (Circle of dots) Shake Fast >>>> Slow
			98 - 118	Gobo 6 (Punchcard) Shake Fast >>>> Slow
			119 - 139	Gobo 7 (Vertical bars) Shake Fast >>>> Slow
			140 - 160	Gobo 8 (Medium Circle) Shake Fast >>>> Slow
19	Iris	0	161-185	Open - No Gobo
			186 - 216	Gobo Wheel Rotate Clockwise S>>>>F
			217-220	Stop No Rotation
			221-251	Gobo Wheel Rotate Counter Clockwise S>>>>F
			252-255	Stop No Rotation
20	Frame 1A	0	0-255	Iris size control
			0 - 200	Iris beam size open to closed
			201 - 255	Iris pulse slow to fast
21	Frame 1B	0	0 - 255	Controls Framing Shutter 1B from Open to Full (DMX 0-255).
22	Frame 2A	0	0 - 255	Controls Framing Shutter 2A from Open to Full (DMX 0-255).
23	Frame 2B	0	0 - 255	Controls Framing Shutter 2B from Open to Full (DMX 0-255).
24	Frame 3A	0	0 - 255	Controls Framing Shutter 3A from Open to Full (DMX 0-255).
25	Frame 3B	0	0 - 255	Controls Framing Shutter 3B from Open to Full (DMX 0-255).
26	Frame 4A	0	0 - 255	Controls Framing Shutter 4A from Open to Full (DMX 0-255).
27	Frame 4B	0	0 - 255	Controls Framing Shutter 4B from Open to Full (DMX 0-255).
28	Frame Rotate	128	0 - 255	Controls Framing Shutter mechanism from +/- 90°
29	Triangular Prism	0 - 255	0 - 255	Controls Prism mechanism with following values.
			0 - 5	Open
			6 - 10	Index
			11 - 15	Rotate Normal
			16 - 20	Rotate with Mega Stepping
30	Prism Index/Rot High Byte	32767	21 - 255	Reserved Values
			0 - 65535	16-bit control of prism rotation and index.
			0 - 32756	Rotate Fast to Slow <<<
31	Prism Index/Rot Low Byte		32757 - 32780	Rotation STOP
			32781 - 65535	Rotate Slow to Fast >>>

TABLE 3. CLONE

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
32	Frost	0	0-255	Linear control of frost mechanism from out (DMX 0) to full in (DMX 255)
33	Strobe / Shutter	33	0 - 5 6 - 11 12 - 87 88 - 93 94 - 169 170 - 245 246 - 251 252 - 255	Shutter Closed Shutter Open (Default 33) Strobe Slow>>>>>>>Fast Strobe Open Strobe Random Slow>>>>>>>Fast Strobe Random Sync Slow>>>>>>>Fast Shutter Open Reserved
34	Programmers Channel	0	0-40 41 - 45 46 - 50 51 - 55 56 - 60 61 - 65 66 - 70 71 - 75 76 - 80 81 - 85 86 - 90 91 - 95 96 - 100 101 - 255	Functions do not require 3 second DMX rule. mode will change once DMX level is reached Idle Dimming Curve Linear Dimming Curve S-Curve Dimming Curve Square Curve (Default)** Reserved Values Dimmer Snap On Dimmer Snap Off (Default) Reserved Values Edge Tracking on Edge tracking off (Default) Reserved Values Color Snap off (Default) Color Snap on (de-activates color timing channel) Reserved Values
35	Luminaire Control	0	0 - 255 0 - 5 6 - 10 11 - 15 16 - 20 21 - 25 26 - 30 31 - 75 76 - 80 81 - 85 86 - 90 91 - 105 106 - 110	Control Channel used for full fixture settings lamp controls. Set discrete value of desired effect then set value to 0 (Idle). Idle (Default) Full Luminaire ReCal - Also Used to Wake fixture up from shutdown Fixture Shutdown Reserved Values Display - Menu ON Display - Menu OFF Reserved Values Display On Display Off Status Check (Turn UI Screen Green if fixture has no Error - Red if Error) Reserved Values Boost Mode - Fixture output increase with Higher fan speed

TABLE 3. CLONE

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
35	Luminaire Control <i>continued</i>	0	111 - 115	Standard Mode -
			116 - 120	Studio Mode - Reduced output with lower fan
			121 - 135	Reserved Values
			136 - 140	Fan On (Default) (Continuous spin rate)
			141 - 145	Fan Auto (Variable spin rate based on LED temperature)
			146 - 150	Reserved Values
			151 - 155	ReCal Position
			156 - 160	ReCal Color
			161 - 165	ReCal Beam
			166 - 170	ReCal Optics
			171-175	ReCal Gobo
			176 - 180	Reset fixture to default
			181 - 255	Reserved Values

TABLE 4. COLOR WHEEL

COLOR SLOT	COLOR	CIE 1931 X	Y	16-BIT MODE DMX RANGE	CENTER	CLONE MODE DMX STEP	DMX VARIABLE	CENTER
1	VL RED			32-63	48	9	48-68	58
2	Dark Blue			64-95	80	15	69-89	79
3	Yellow			96-127	112	21	90-110	100
4	Kelly Green			128-159	144	27	111-131	121
5	Amber			160-191	176	33	132-152	142
6	Congo Blue			192-223	208	39	153-173	163

TABLE 5. CONTROL CHANNEL

RANGE DMX	ITEMS	DESCRIPTION	POWER CYCLE RULES	RECAL RULES	REST TO DEFAULT FIXTURE	RESET TO DEFAULT UI
0 - 255	Control Channel	Used for full fixture settings lamp controls and miscellaneous modes. Set discrete value of desired effect wait >3 seconds, then set value to 0 (Idle).		N/A		
0 - 5	Idle (Default)	Default value used as return point to activate all control functions	N/A			
6 - 10	Full Luminaire ReCal	Recalibrates all mechanical functions and sensor within the fixture; also used to Wake fixture up from shutdown	N/A			
11 - 15	Fixture Shutdown	Shuts down all fixture output and turns off all fans - fixture is activated by power cycle or ReCal command	Fixture wakes	Fixture wakes	Fixture wakes	Fixture wakes
16 - 20	Reserved Values		N/A			
21 - 25	Display - Menu ON	Switches UI display backlight on remotely - Display will Time out from on after 5 mins	N/A	N/A	N/A	N/A
26 - 30	Display - Menu OFF		N/A	N/A	N/A	N/A
31 - 35	Tungsten Dimming On	Remote switches Tungsten Dimming color shift on	Hold Setting	Hold Setting	Resets to Default	Resets to Default
36 - 40	Tungsten Dimming Off (Default)	Remote switches Tungsten Dimming color shift off	Hold Setting	Hold Setting	Resets to Default	Resets to Default

TABLE 5. CONTROL CHANNEL

RANGE DMX	ITEMS	DESCRIPTION	POWER CYCLE RULES	RECAL RULES	RESET TO DEFAULT FIXTURE	RESET TO DEFAULT UI
41 - 45	Dimming Curve Linear	Selects Linear Dimming Curve Removed if used in programmers channel	Hold Setting	Hold Setting	Resets to Default	Resets to Default
46 - 50	Dimming Curve S-Curve	Selects S-Law Dimming Curve; Removed if used in programmers channel	Hold Setting	Hold Setting	Resets to Default	Resets to Default
51 - 55	Dimming Curve Square Curve (Default)**	Selects Square -Law Dimming Curve; Removed if used in programmers channel	Hold Setting	Hold Setting	Resets to Default	Resets to Default
56 - 60	Reserved Values					
61 - 65	Dimmer Snap On	Allows for fastest output changes between levels but reduces smoothness dimming LED; Removed if used in programmers channel	Hold Setting	Hold Setting	Resets to Default	Resets to Default
66 - 70	Dimmer Snap Off (Default)	Ensures all fades between output levels remain smooth and flicker free limits fast instant snaps between levels; Removed if used in programmers channel	Hold Setting	Hold Setting	Resets to Default	Resets to Default
71 - 75	Reserved Values		N/A			
76 - 80	Display On	Remote activation of User interface display back light - on for 10 mins	N/A			
81 - 85	Display Off	Display off switches off display before time out	N/A			
86 - 90	Status Check	Activates status check - Green activates and show green for 5 mins if no errors present; Show red if fixture is reporting and error	N/A			
91 - 95	Color Calibration on	Turns Color calibration on for fixture to fixture color matching on all mixed and preset colors between fixtures limits highest output and max saturation on some colors	Hold Setting	Hold Setting	Resets to Default	Resets to Default
96 - 100	Color Calibration off (Default)	Turns Color calibration off fixtures may not match fixture to fixture offers highest output and deepest saturation of color	Hold Setting	Hold Setting	Resets to Default	Resets to Default
101 - 105	Reserved Values		N/A			
106 - 110	Boost Mode	Boost mode - LED output boosted to >120% of standard output fan speeds increased manage heat level of LED (may be limited to only run for XXhrs) NC45 - NC55 *Fans can be switched between On (136-140) & Auto (141 - 145)	Hold Setting	Hold Setting	Resets to Default	Resets to Default
111 - 115	Standard Mode - Fixture operates at maximum output (Default)	Standard mode - Full LED Output + Full Continuous Fan Spin at top speed (loudest setting) (Fan remain at a constant speed and do not ramp up and down) NC40 *Fans can be switched between On (136-140) & Auto (141 - 145)	Hold Setting	Hold Setting	Resets to Default	Resets to Default

TABLE 5. CONTROL CHANNEL

RANGE DMX	ITEMS	DESCRIPTION	POWER CYCLE RULES	RECAL RULES	RESET TO DEFAULT FIXTURE	RESET TO DEFAULT UI
116 - 120	Studio Mode - Reduced output with lower fan settings	Studio Mode - Fan speed reduced to appropriate amount to reduce dB levels >10% of full speed + LED @ max output approximately 80% of Standard output at appropriate level to ensure LED work at optimum temperature and output efficiency (fan speed remains at a constant speed and do not ramp up or down) NC35 *Fans can be switched between On (136-140) & Auto (141 - 145)	Hold Setting	Hold Setting	Resets to Default	Resets to Default
121 - 135	Reserved		N/A	N/A	N/A	N/A
136 - 140	Fan On (Default)	Fans run at continuous speed for either Boost or standard mode in isolation to the LED operating temperature	Hold Setting	Hold Setting	Resets to Default	Resets to Default
141 - 145	Fan Auto	Fans will reduce / increase speed on demand based on LED operating temperature for either standard or studio mode	Hold Setting	Hold Setting	Resets to Default	Resets to Default
146 - 150	Reserved Values		N/A	Hold Setting	Resets to Default	Resets to Default
151 - 155	ReCal Position	Recalibration of Positions	N/A	Hold Setting	Resets to Default	Resets to Default
156 - 160	ReCal Color	Recalibration of color system	N/A	Hold Setting	Resets to Default	Resets to Default
161 - 165	ReCal Beam	Recalibration of all Beam function	N/A	Hold Setting	Resets to Default	Resets to Default
166 - 170	Recal Optics	Recalibration of optical system	N/A	Hold Setting	Resets to Default	Resets to Default
171 - 175	Reset fixture to default	Will reset all parameters to default with the exception of the Mx address; fixture mode and Pixel / Zone selection	N/A	N/A	N/A	N/A
176 - 255	Reserved Values		N/A	Hold Setting	Resets to Default	Resets to Default

TABLE 6. PROGRAMMER'S CHANNEL, DEFAULT 0

DMX	ITEMS	DESCRIPTION	POWER CYCLE RULES	RECAL RULES	RESET TO DEFAULT FIXTURE	RESET TO DEFAULT UI	FUNCTION SELECTION VIA UI
		Functions do not require 3 second DMX rule. mode will change once DMX level is reached					
0-40	Idle	Default channel level	N/A	N/A			N/A
41 - 45	Dimming Curve Linear	Selects Linear Dimming Curve	Hold setting	Hold setting	Resets to default	Resets to default	Yes
46 - 50	Dimming Curve S-Curve	Selects S-Law Dimming Curve	Hold setting	Hold setting	Resets to default	Resets to default	Yes
51 - 55	Dimming Curve Square Curve (Default)**	Selects Square -Law Dimming Curve	Hold setting	Hold setting	Resets to default	Resets to default	Yes
56 - 60	Reserved Values						
61 - 65	Dimmer Snap On	Allows for fastest output changes between levels but reduces smoothness dimming LED	Hold setting	Hold setting	Resets to default	Resets to default	Yes

TABLE 6. PROGRAMMER'S CHANNEL, DEFAULT 0

DMX	ITEMS	DESCRIPTION	POWER CYCLE RULES	RECAL RULES	REST TO DEFAULT FIXTURE	RESET TO DEFAULT UI	FUNCTION SELECTION VIA UI
66 - 70	Dimmer Snap Off (Default)	Ensures all fades between output levels remain smooth and flicker free limits fast instant snaps between levels	Hold setting	Hold setting	Resets to default	Resets to default	Yes
71 - 75	Reserved Values		N/A				N/A
76 - 80	Edge Tracking on	Auto run focus with zoom to hold a closer focus when changing image sizes use zoom; will reduce speed of zoom "	Hold setting	Hold setting	Resets to default	Resets to default	N/A
81 - 85	Edge tracking off (Default)	Deactivates edge tracking zoom runs at full speed	Hold setting	Hold setting	Resets to default	Resets to default	N/A
86 - 90	Reserved Values						
91 - 95	Color Snap off (Default)	Deactivates Color snap					
96 - 100	Color Snap on	on 0 - 100% commands sent from a console in 0 time the wheel spins backwards to go from open to full saturation (de-activates color timing channel)					
101 - 255	Reserved Values						

TABLE 7.TIMING CHANNEL

DMX	% VALUES	TIME (SEC)	DMX	% VALUES	TIME (SEC)	DMX	% VALUES	TIME (SEC)
0		Full Speed	48	19	9.6	96		28
1		0.2	49		9.8	97	38	28
2		0.4	50		10	98		29
3	1	0.6	51	20	10.2	99	39	29
4		0.8	52		10.4	100		29
5	2	1	53		10.6	101		30
6		1.2	54	21	11	102	40	30
7		1.4	55		11	103		30
8	3	1.6	56	22	12	104		31
9		1.8	57		12	105	41	31
10	4	2	58		13	106		32
11		2.2	59	23	13	107	42	32
12		2.4	60		14	108		32
13	5	2.6	61	24	14	109		33
14		2.8	62		14	110	43	33
15	6	3	63		15	111		34
16		3.2	64	25	15	112	44	34
17		3.4	65		16	113		34
18	7	3.6	66	26	16	114		35
19		3.8	67		16	115	45	35
20	8	4	68		17	116		36
21		4.2	69	27	17	117	46	36
22		4.4	70		18	118		36
23	9	4.6	71	28	18	119		37
24		4.8	72		18	120	47	37
25	10	5	73		19	121		38
26		5.2	74	29	19	122	48	38
27		5.4	75		20	123		38
28	11	5.6	76	30	20	124		39
29		5.8	77		20	125	49	39
30		6	78		21	126		39
31	12	6.2	79	31	21	127		40
32		6.4	80		21	128	50	40
33	13	6.6	81		22	129		41
34		6.8	82	32	22	130	51	41
35		7	83		23	131		41
36	14	7.2	84	33	23	132		42
37		7.4	85		23	133	52	42
38	15	7.6	86		24	134		43
39		7.8	87	34	24	135	53	43
40		8	88		25	136		43
41	16	8.2	89	35	25	137		44
42		8.4	90		25	138	54	44
43	17	8.6	91		26	139		45
44		8.8	92	36	26	140	55	45
45		9	93		27	141		45
46	18	9.2	94	37	27	142		46
47		9.4	95		27	143	56	46

TABLE 7.TIMING CHANNEL

DMX	% VALUES	TIME (SEC)	DMX	% VALUES	TIME (SEC)	DMX	% VALUES	TIME (SEC)
144		47	191	75	85	238		250
145	57	47	192		85	239		260
146		47	193		90	240	94	260
147		48	194	76	90	241		270
148	58	48	195		95	242	95	270
149		49	196	77	95	243		270
150	59	49	197		95	244		280
151		49	198		100	245	96	280
152		50	199	78	100	246		290
153	60	50	200		110	247	97	290
154		50	201	79	110	248		290
155		51	202		110	249		300
156	61	51	203		120	250	98	300
157		52	204	80	120	251		310
158	62	52	205		120	252	99	310
159		52	206	81	130	253		310
160		53	207		130	254		310
161	63	53	208		140	255	100	Follows Cue Data
162		54	209	82	140			
163	64	54	210		140			
164		54	211		150			
165		55	212	83	150			
166	65	55	213		160			
167		56	214	84	160			
168	66	56	215		160			
169		56	216		170			
170		57	217	85	170			
171	67	57	218		180			
172		58	219	86	180			
173	68	58	220		180			
174		58	221		190			
175		59	222	87	190			
176	69	59	223		200			
177		59	224	88	200			
178		60	225		200			
179	70	60	226		210			
180		65	227	89	210			
181	71	65	228		210			
182		65	229		220			
183		70	230	90	220			
184	72	70	231		230			
185		75	232	91	230			
186	73	75	233		230			
187		75	234		240			
188		80	235	92	240			
189	74	80	236		250			
190		85	237	93	250			

TABLE 8. QUICK REFERENCE DMX

DMX	16-BIT ENHANCED	16-BIT	CLONE MODE
1	Intensity High	Intensity High	Intensity High
2	Intensity Low	Intensity Low	Intensity Low
3	Pan High	Pan High	Pan High
4	Pan Low	Pan Low	Pan Low
5	Tilt High	Tilt High	Tilt High
6	Tilt Low	Tilt Low	Tilt Low
7	Focus High	Focus High	Focus High
8	Focus Low	Focus Low	Focus Low
9	Zoom High	Zoom High	Zoom High
10	Cyan	Cyan	Cyan
11	Yellow	Yellow	Yellow
12	Magenta	Magenta	Magenta
13	CTO	CTO	CTO
14	Color Wheel	Color Wheel	Color Wheel
15	Color Wheel Control	Color Wheel Control	Gobo Wheel 1
16	Gobo Wheel 1	Gobo Wheel 1	Gobo 1 Rot/Index High
17	Gobo 1 Rot/Index High	Gobo 1 Rot/Index High	Gobo 1 Rot/Index Low
18	Gobo 1 Rot/Index Low	Gobo 1 Rot/Index Low	Gobo Wheel 2
19	Gobo Wheel 1 Control	Gobo Wheel 1 Control	Iris
20	Gobo Wheel 2	Gobo Wheel 2	Frame 1A
21	Gobo Wheel 2 Control	Gobo Wheel 2 Control	Frame 1B
22	Iris	Iris	Frame 2A
23	Frame 1A	Frame 1A	Frame 2B
24	Frame 1B	Frame 1B	Frame 3A
25	Frame 2A	Frame 2A	Frame 3B
26	Frame 2B	Frame 2B	Frame 4A
27	Frame 3A	Frame 3A	Frame 4B
28	Frame 3B	Frame 3B	Frame Rotate
29	Frame 4A	Frame 4A	Triangular Prism
30	Frame 4B	Frame 4B	Prism Index/Rot High
31	Frame Rotate	Frame Rotate	Prism Index/Rot Low
32	Triangular Prism	Triangular Prism	Frost
33	Prism Index/Rot High	Prism Index/Rot High	Strobe / Shutter
34	Prism Index/Rot Low	Prism Index/Rot Low	Programmers Channel
35	Frost	Frost	Luminaire Control
36	Strobe Speed	Strobe Speed	
37	Strobe Control	Strobe Control	
38	Programmers Channel	Programmers Channel	
39	Focus Timing	Fan Control	
40	Optics Timing	Luminaire Control	
41	Color Timing		
42	Beam Timing		
43	Gobo Timing		
44	Fan Control		
45	Luminaire Control		

4 OPERATION

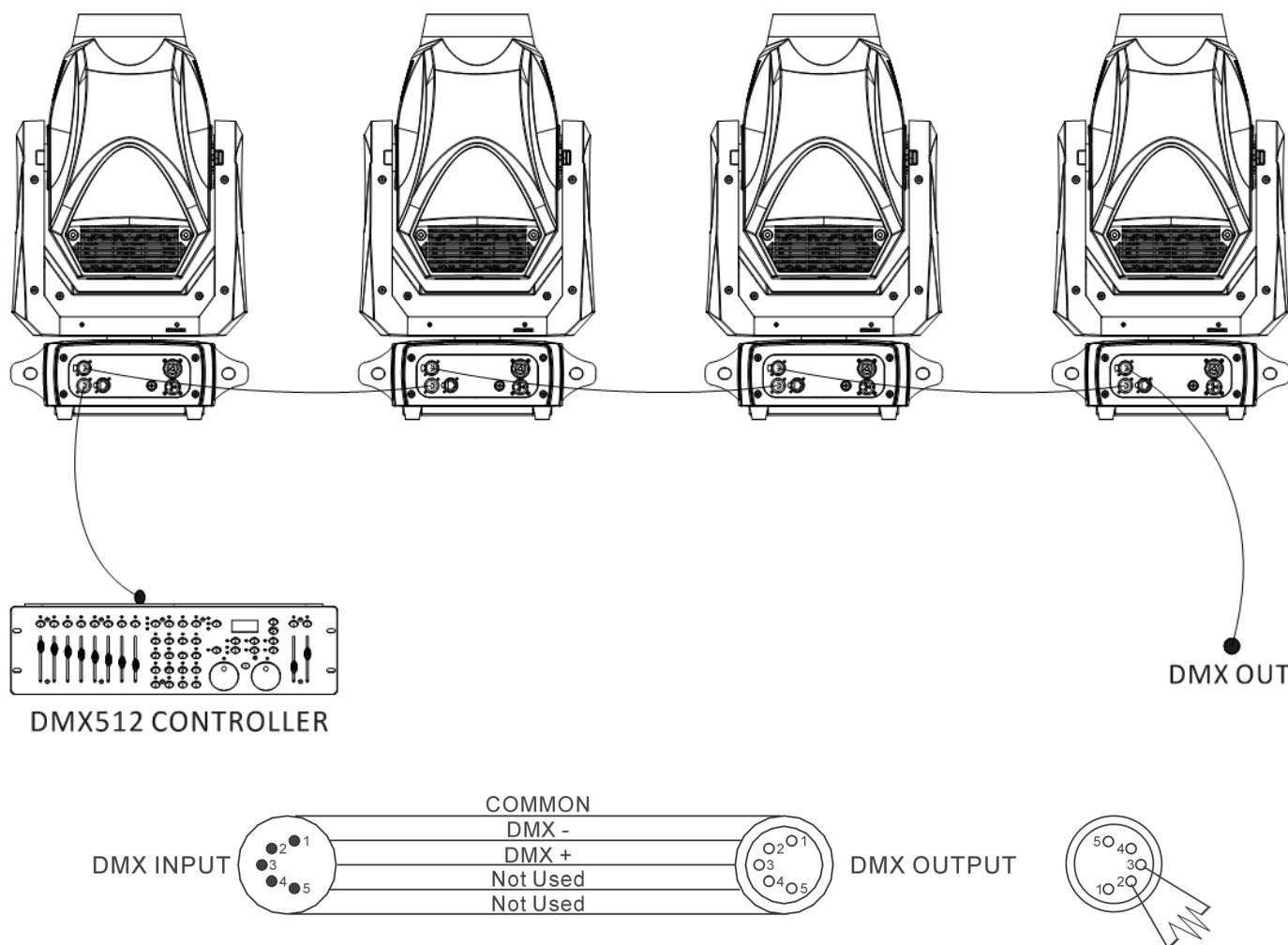
A DMX termination connector is used in this process. Solder a 120 Ω 1/4W resistor between pin 2 (DMX-) and pin 3 (DMX+) into a 5-pin XLR-plug and plug it in the DMX-output of the last unit. A maximum of 32 luminaires can be connected to one DMX512 data link.

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.



MENU OPERATION

WHAT IS THE MENU SYSTEM?

The menu system is a programmable set of commands used to configure, address, operate, and test the luminaire. The menu system is controlled at the Menu Display available at the enclosure input panel.

CONTROLS OPERATION

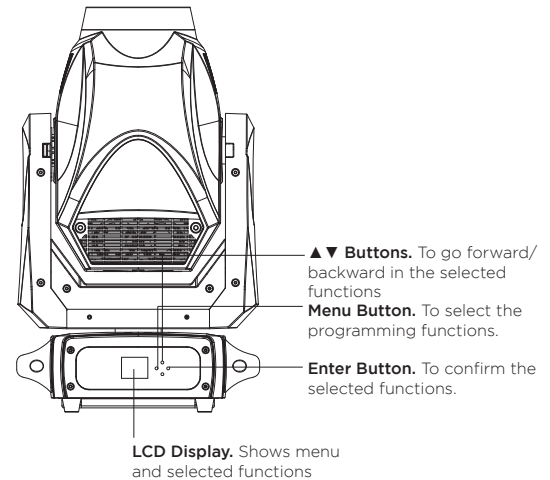
The menu system is controlled by [MENU], [ENTER], and four ▲▼ arrow buttons.

The arrows have opposite functions if the luminaire is hung upside down in a hanging orientation due to the automatic orientation feature. In other words, the arrow pointing downward always functions as down/decrease and the arrow pointing upward always functions as up/increase regardless of the luminaire orientation.

DEFAULT STATE

The menu display's default state during normal operation is to display the DMX address. After 40 seconds of inactivity at the display, it will change to the default state.

After longer periods of inactivity, the menu display will switch to its off state. The default state for this feature is 30 seconds, however, different time lengths can also be programmed.



To program a different time length for menu off feature:

- Step 1. Press [ESC] access the main menu.
- Step 2. Once enabled, the menu will function as normal with only the following sub-menu sections active:
 - Address
 - Configure
 - DMX
 - Fixture
 - Manual Control
 - Test
- Step 3. Press ▲▼ choose the "Configure", and press [ENTER].
- Step 4. Press ▲▼ choose the "Display", and press [ENTER].
- Step 5. Press ▲▼ choose the "On Time", and press [ENTER].
- Step 6. Press ▲▼ choose "30 Sec", "5 Min", "10 Min", "On" when you need.

MENU FUNCTIONS

For easy reference, each possible menu item is listed alphabetically in the first column by its display abbreviation. The second column follows with a definition of the abbreviation and then a third column provides an explanation of its purpose and function.

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.

TABLE 9. MENU SYSTEM

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT
ADDRESS	001-512					(Default 001)
CONFIGURE	LED	LED Hours	XXXXXX h			
		Reset LED Hour	Are you sure?			
		Dimming Curve	Square Law			(Default)
			S Curve			
			Linear			
		Dim Snap	Snap On			
			Snap Off			(Default)
		Output Mode	Boost			
			Standard			(Default)
			Studio			
		Fan Mode	On			(Default)
			Auto			
		Refresh rate	900Hz			
			910Hz			
			920Hz			
			930Hz			
			940Hz			
			950Hz			
			960Hz			
			980Hz			
			990Hz			
			1000Hz			
			1500Hz			(Default)
			2500Hz			
			4000Hz			
	Movement	Pan Motor	Enable			(Default)
			Disable			
		Tilt Motor	Enable			(Default)
			Disable			
	Display	Miss Orientation?	Up			(Default)
			Down			
		On Time	30 Sec			(Default)
			5 Min			
			10 Min			
			On			
	Focus Compensate	Disable				
		5M				
		10M				(Default)
		15M				
	Reset Defaults	Are you sure?				

TABLE 9. MENU SYSTEM

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT
DMX	Address	001-512				
	DMX Mode	16-bit Enh				(Default)
		16-bit				
		Clone Mode				
	Select Signal	DMX Only				(Default)
		Art-Net	On			
			Off			(Default)
	Set Artnet	Set Universe	0~15			
		Net	0~127			
		Sub-Net	0~15			
		Ethernet IP	XXX. XXX. XXX. XXX			
		Ethernet Mask IP	XXX. XXX. XXX. XXX			
	DMX Fail/No DMX	Hold				(Default)
		Fade to blackout				
		Goto Preset	1 to 20			
	Pan/Tilt	Swap Pan/Tilt	Off			(Default)
			On			
		Invert Pan	Off			(Default)
			On			
		Invert Tilt	Off			(Default)
			On			
	Data	Ch 1 - Intensity XXX (Value)				
		Ch 2 - Intensity Fine XXX (Value)				
		All functions				
FIXTURE	Status	(No Errors... or displays a list of errors)				
	Recal (Fixture)	Are you sure?				
	Reboot Fixture	Are you sure?				
	Version	VXXX	MM/D/YY	HH:MM		
	Fixture Hours	XXXXXX h				
	Cross load (Software)	Send				
	Service	Service Settings	Password access - see service manual			
		Diagnostics	Fan Check			
			LED Temp			
TEST	All Test	(Run 'ALL TEST')				
	Pan/Tilt Test	(Run 'PAN/TILT TEST')				
	Test Channel	Intensity			(Run Intensity test)	
		Pan			(Run Pan test)	
		All functions				
	Encoder Pan	XXXXXXXX - Displays Pan Encoder				
	Encoder Tilt	XXXXXXXX - Displays Tilt Encoder				

TABLE 9. MENU SYSTEM

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT
MANUAL/ PRESET	Preset Playback	Select preset			1 to 20	
		Intensity			0 - 255	
	User Preset Setting	Intensity			0 - 255	
		Shutter / Strobe			0 - 255	
		Pan			0 - 255	
		Tilt			0 - 255	
		Cyan			0 - 255	
		Yellow			0 - 255	
		Magenta			0 - 255	
		CTO			0 - 255	
		Color Wheel			0 - 255	
		Gobo 1			0 - 255	
		Gobo 2			0 - 255	
		Prism			0 - 255	
		Zoom			0 - 255	
		Focus			0 - 255	
		Iris			0 - 255	
		Frost			0 - 255	
		Frame 1A			0 - 255	
		Frame 1B			0 - 255	
		Frame 2A			0 - 255	
		Frame 2B			0 - 255	
		Frame 3A			0 - 255	
		Frame 3B			0 - 255	
		Frame 4A			0 - 255	
		Frame 4B			0 - 255	
		Frame Rotate			0 - 255	
		Store	1 >>>>>>>>> 20		Are your sure (Yes/No)	
		Clear	1 >>>>>>>>> 20		Are your sure (Yes/No)	

ADDRESS

To select 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, Movement, Display, Focus Compensate or Reset Defaults.

LED

To select LED, press the ENTER button to confirm. Use the UP/DOWN button to select LED Hours, Reset LED Hour, Dimming Curve, Dim Snap, Output Mode, Fan Mode or Refresh Rate, 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.

Reset LED Hour

Select Reset LED Hour, 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.

Dimming Curve

To select Dimming Curve, press the ENTER button to confirm. Use the UP/DOWN button to select Square Law, S Curve or Linear, 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.

Dim Snap

To select Dim Snap, press the ENTER button to confirm. Use the UP/DOWN button to select Snap On or Snap Off, 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 Mode

To select Output Mode, press the ENTER button to confirm. Use the UP/DOWN button to select Boost, Standard or Studio, 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.

Fan Mode

To select Fan Mode, press the ENTER button to confirm. Use the UP/DOWN button to select On or Auto, 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.

Refresh Rate

To select Refresh Rate, press the ENTER button to confirm. Use the UP/DOWN button to select 900Hz, 910Hz, 920Hz, 930Hz, 940Hz, 950Hz, 960Hz, 980Hz, 990Hz, 1000Hz, 1500Hz, 2500Hz or 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.

Movement

To select Movement, press the ENTER button to confirm. Use the UP/DOWN button to select Pan Motor or Tilt Motor, 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.

Pan Motor

To select Pan Motor, press the ENTER button to confirm. Use the UP/DOWN button to select Enable or Disable, 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.

Tilt Motor

To select Tilt Motor, press the ENTER button to confirm. Use the UP/DOWN button to select Enable or Disable, 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. Use the UP/DOWN button to select Miss Orientation? or On Time, 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.

Miss Orientation?

Select Miss Orientation?, press the ENTER button to confirm, Use the UP/DOWN button to select Up or Down, 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.

On Time

Select On Time, press the ENTER button to confirm, Use the UP/DOWN button to select 30 Sec, 5 Min, 10 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.

Focus Compensate

Select Focus Compensate, press the ENTER button to confirm, Use the UP/DOWN button to select Disable, 5M, 10M or 15M, 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 Address, DMX Mode, Select Signal, Set Artnet, DMX Fail/No DMX, Pan/Tilt or Data.

Address

To select 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.

DMX Mode

To select DMX Mode, press the ENTER button to confirm. Use the UP/DOWN button to select 16-bit Enh, 16-bit or Clone 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.

Select Signal

To select Select Signal, press the ENTER button to confirm. Use the UP/DOWN button to select DMX Only or Art-Net, 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.

Art-Net

To select Art-Net, press the ENTER button to confirm. Use the UP/DOWN button to select On or Off, 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.

Set Artnet

To select Set Artnet, press the ENTER button to confirm. Use the UP/DOWN button to select Set Universe, Net, Sub-Net, Ethernet IP or Ether Mask IP, 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 Fail / No DMX

To select DMX Fail / No DMX press the ENTER button to confirm. Use the UP/DOWN button to select Hold, Fade to blackout or Goto Preset, 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.

Pan/Tilt

To select Pan/Tilt, press the ENTER button to confirm. Use the UP/DOWN button to select Swap Pan/Tilt, Invert Pan or Invert Tilt, press the ENTER button to store. Use the UP/DOWN button to select Off 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.

Data

To select Data, press the ENTER button to confirm. Use the UP/DOWN button to select Ch1-Intensity, Ch2-Intensity Fine orAll 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.

FIXTURE

To select Fixture, press the ENTER button to confirm, use the UP/DOWN button to select Status, ReCal (Fixture), Reboot Fixture, Version, Fixture Hours, Cross load (Software) or Service.

Status

Select Status, press the ENTER button to confirm, (No Errors... or displays a list of errors) will show on the display, press the MENU button back to exit.

Recal (Fixture)

Select Recal (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.

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.

Cross load (Software)

Select Cross load (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.

Service

To select Service, press the ENTER button to confirm. Use the UP/DOWN button to select Service Settings (See Service Manual for details) 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.

Diagnostics

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

TEST

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

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.

Pan/Tilt Test

Select Pan/Tilt Test, press the ENTER button to confirm, the unit will run pan/tilt 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, use the UP/DOWN button to select channel Intensity, Pan or ...All functions, 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.

Encoder Pan

Select Encoder Pan, press the ENTER button to confirm, Displays Pan Encoder will show on the display. Press the MENU button back to the last menu or exit menu mode after auto test.

Encoder Tilt

Select Encoder Tilt, press the ENTER button to confirm, Displays Tilt Encoder will show on the display. Press the MENU button back to the last menu or exit menu mode after auto test.

MANUAL/PRESET

Enter menu mode, select *Manual/Presets* press the ENTER button to confirm, use the UP/DOWN button to select Preset Playback or User Preset Setting.

Preset Playback

Select Preset Playback, press the ENTER button to confirm, use the UP/DOWN button to select Select preset or Intensity. Press the MENU button back to the last menu or let the unit idle one minute to exit menu mode.

User Preset Setting

Select User Preset Setting, press the ENTER button to confirm, use the UP/DOWN button to select channel Intensity, Shutter/Strobe, Pan, Tilt, Cyan, Yellow, Magenta, CTO, Color Wheel, Gobo 1, Gobo 2, Prism, Zoom, Focus, Iris, Frost, Frame 1A, Frame 1B, Frame 2A, Frame 2B, Frame 3A, Frame 3B, Frame 4A, Frame 4B, Frame Rotate, Store or Clear, press the ENTER button to confirm, then use the UP/DOWN button to adjust the value for Intensity, Shutter/Strobe, Pan, Tilt, Cyan, Yellow, Magenta, CTO, Color Wheel, Gobo 1, Gobo 2, Prism, Zoom, Focus, Iris, Frost, Frame 1A, Frame 1B, Frame 2A, Frame 2B, Frame 3A, Frame 3B, Frame 4A, Frame 4B, Frame Rotate, press the ENTER button to store, the fixture will run as the channel value indicates, and to store or clear 1 to 20 preset for Store or Clear, press ENTER button and Are your sure (Yes/No) will show in the display. Press the MENU button back to the last menu or exit menu mode idling one minute.

GOBOS

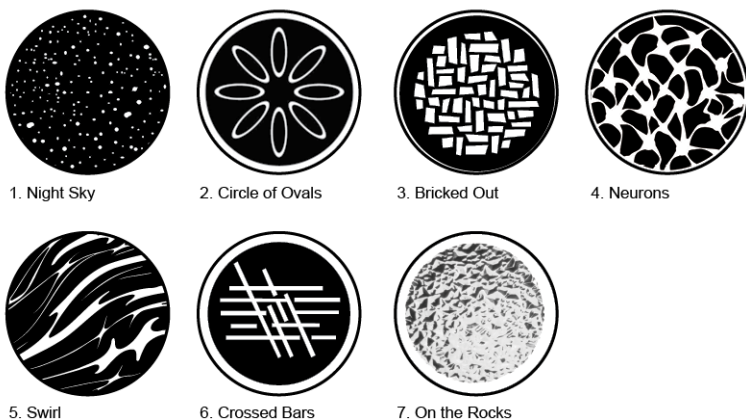
The VL800 Eventprofile accomodates 1 rotating gobo wheel and 1 metal stamped gobo.

GOBO WHEEL 1

This rotating gobo wheel offers seven rotatable, interchangeable gobo positions and one open position. This gobo wheel features MegaStep, Twist, Shake, and Wheel Spin.

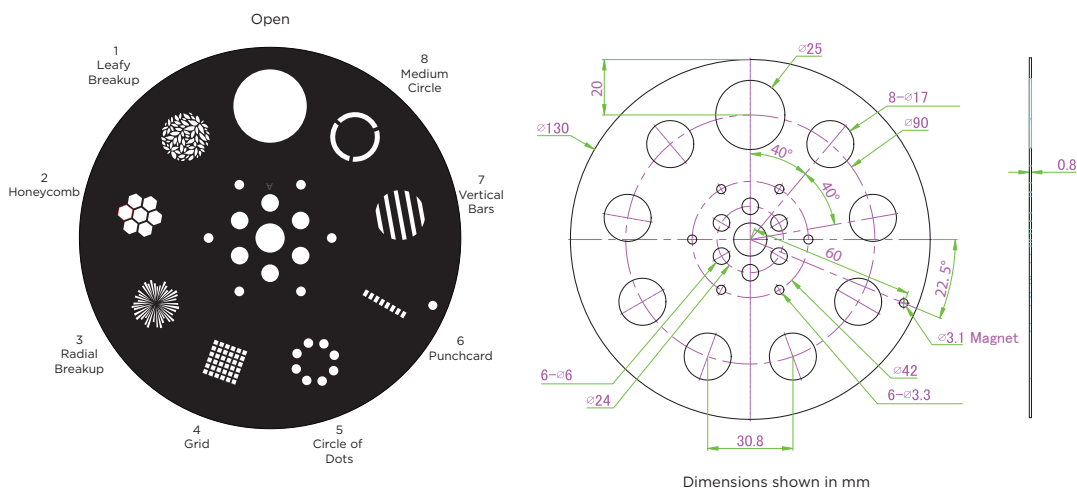
GOBO	MATERIAL	REFLECTION	THICKNESS	OUTER SIZE	IMAGE SIZE	CARRIER
Rotating Gobo Black and White	Borofloat 33	Min 93%	1.1mm	22.5mm	17mm	Yes
Rotating Gobo On the Rocks	high-temp glass	0%	2.5mm	22.5mm	22.5mm	Yes

Gobo Wheel 1



GOBO WHEEL 2

Gobo Wheel 2 is a metal stamped wheel. This gobo wheel features Shake, and Wheel Spin.



Material: 7075 Aluminium Alloy
Painting: Face A with black high temperature coating

INSTALL OR REPLACE GOBOS

WARNING: Remove power from luminaires before performing maintenance. Gobos may be HOT after operation. Allow to cool before handling.

To replace a rotating gobo:

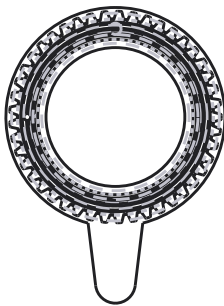
- Step 1. Remove power from luminaire.
- Step 2. Remove top and bottom head cover by loosening four crossed Slot screws to access the gobo wheel.
- Step 3. If removing gobos via bottom of head assembly, undo fan tray assembly with thumb screw to access.
- Step 4. Rotate desired gobo wheel until required gobo position is accessible.

CAUTION: Do not push on gobo glass. Press on gobo carrier only.

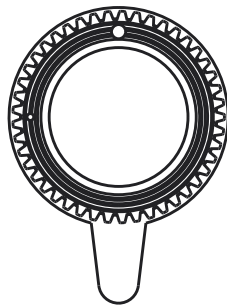
CAUTION: Do not touch gobos with bare fingers. Wear cotton gloves or other covering while replacing. To clean, refer to [Appendix A on page 4034](#).

- Step 5. Remove current gobo by carefully pressing on edges of gobo carrier with fingers, pressing gobo toward front end of luminaire (toward lens), and out of wheel.
- Step 6. Install new gobo as follows:
 - a. Place the gobo holder on a clean, flat work surface with the teeth facing upwards. The gobo is held in place in the gobo holder by a spring. Taking care to avoid scratching or applying pressure to the gobo, lever the end of the spring out, remove the spring and then lift the gobo out of the gobo holder.
 - b. Hold the gobo with the dark side facing upwards towards the teeth in the gobo holder. Match up the alignment marks (arrowed) in the gobo and gobo holder. Lay the new gobo flat in the gobo holder.
 - c. Insert gobo carrier into wheel, ensuring that carrier snaps into place.
- Step 7. Rotate desired gobo wheel until required gobo position is accessible

Carriers



Gobo Carrier
63581988



Gobo Carrier with Magnet
63581984

APPENDIX A

CARE AND MAINTENANCE

WARNING: All maintenance procedures are to be performed with power disconnected from the luminaire.

TROUBLESHOOTING

The following are a few common problems that may occur during operation with suggestions for correcting the issue.

The fixture does not work - no output and the fan does not work.

1. Check the connection of power cord and main fuse.
2. Measure the mains voltage on the main connector.

The fixture does not respond to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if linked properly.
2. If the DMX LED is ON and no response to the channel, check the address settings and DMX polarity.
3. When there is intermittent DMX signal problems, check the connector pins, PCB or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

FIXTURE CLEANING

Cleaning 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 surroundings cause greater accumulation of dirt on the fixture's optics.

- Clean with soft cloth using glass cleaning fluid.
- Allow parts to fully dry before use.
- Clean external optics at least every 30 days.

THIS PAGE INTENTIONALLY BLANK

TECHNICAL SUPPORT

GLOBAL 24HR TECHNICAL SUPPORT:

Call: +1 214 647 7880

entertainment.service@signify.com

NORTH AMERICA SUPPORT:

Call: 877-VARI-LITE (877-827-4583)

entertainment.service@signify.com

EUROPEAN CUSTOMER SERVICE:

entertainment.europe@signify.com

©2024 Signify Holding. All rights reserved.

All trademarks are owned by Signify Holding or their respective owners. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Data subject to change.