VARI*LITE

VL800 EVENTPROFILE

USER MANUAL

WWW.VARI-LITE.COM

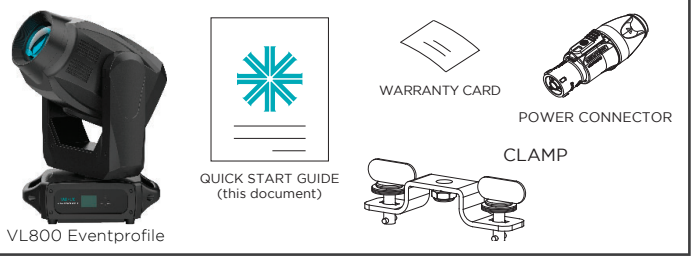
1 DESCRIPTION

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.

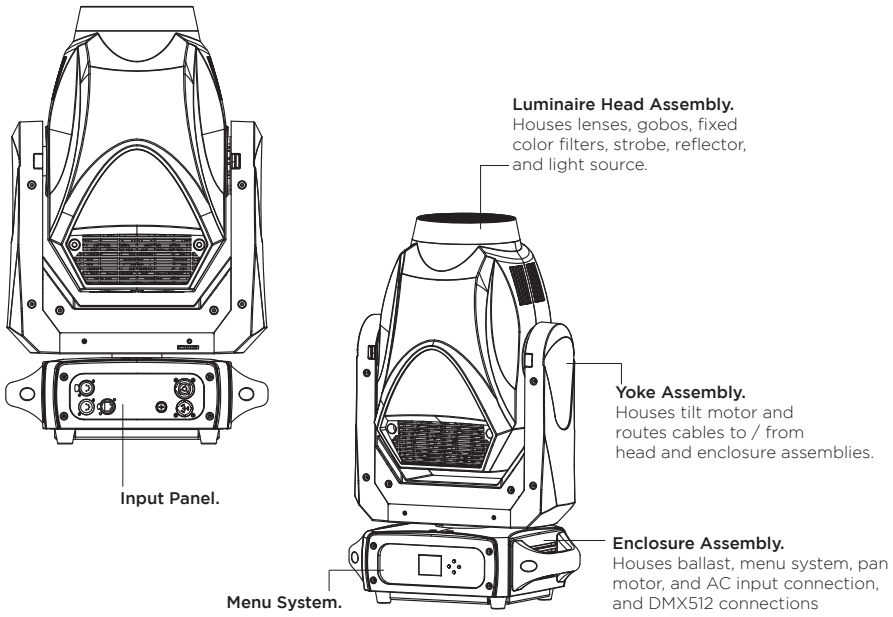
INCLUDED ITEMS



COMPONENTS

LUMINAIRE OVERVIEW

The following illustration shows the external luminaire components and controls.

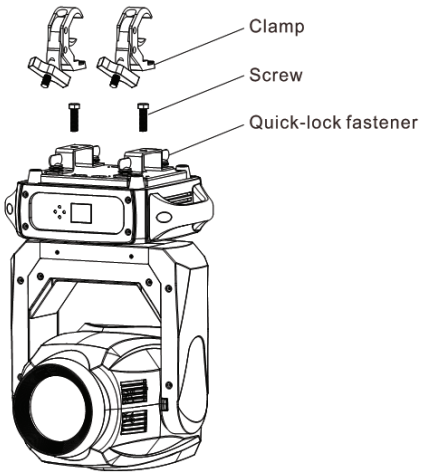


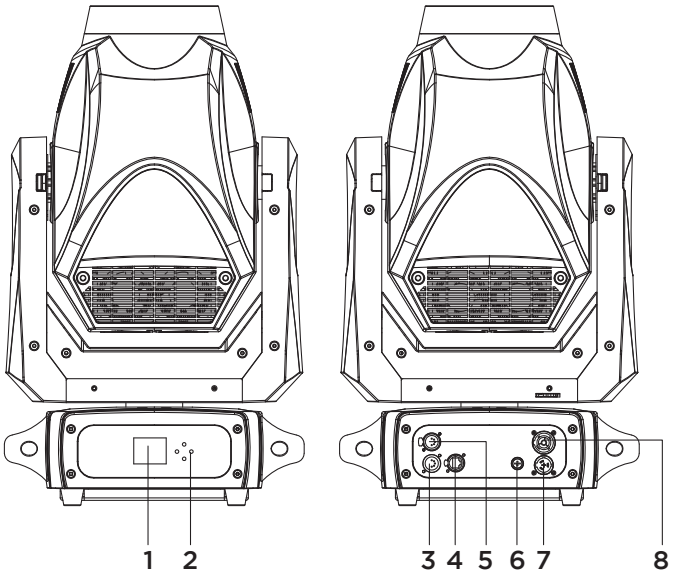
2 INSTALLATION

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	8-bit control of Color Wheel. (spin speed slow to fast from control channel) OPEN (centered at 0)
			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
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 (Honey Bomb)
			78-103	Gobo 3 Swirl (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
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 >>>

TABLE 1.16-BIT ENHANCED

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
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		Functions do not require 3 second DMX rule. mode will change once DMX level is reached
			0-40	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 - 105	Reserved Values
			106 - 110	Reserved Values
			111 - 115	Reserved Values
			116 - 120	Reserved Values
			121 - 125	Reserved Values
			126 - 130	Reserved Values
			131 - 135	Reserved Values
			136 - 140	Reserved Values
			141 - 145	Reserved Values
			146 - 150	Reserved Values
			151 - 155	Reserved Values
			156 - 160	Reserved Values
			161 - 165	Reserved Values
			166 - 170	Reserved Values
			171 - 175	Reserved Values
			176 - 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

TABLE 1.16-BIT ENHANCED

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
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
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 - 35	Reserved Values
			36 - 40	Reserved Values
			41 - 45	Reserved Values
			46 - 50	Reserved Values
			51 - 55	Reserved Values
			56 - 60	Reserved Values
			61 - 65	Reserved Values
			66 - 70	Reserved Values
			71 - 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 - 95	Reserved Values
			96 - 100	Reserved Values
			101 - 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 - 125	Reserved Values
			126 - 130	Reserved Values
			131 - 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

TABLE 1.16-BIT ENHANCED

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
45	Luminaire Control *continued*	0	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	8-bit control of Color Wheel (spin speed slow to fast from control channel) OPEN (centred at 0)
			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
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. Interchangable 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 (Honey Bomb)
			78-103	Gobo 3 Swirl (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
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 >>>

TABLE 2. 16-BIT

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
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		Functions do not require 3 second DMX rule. mode will change once DMX level is reached
			0-40	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	Rerserved 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 - 105	Reserved Values
			106 - 110	Reserved Values
			111 - 115	Reserved Values
			116 - 120	Reserved Values
			121 - 125	Reserved Values
			126 - 130	Reserved Values
			131 - 135	Reserved Values
			136 - 140	Reserved Values
			141 - 145	Reserved Values
			146 - 150	Reserved Values
			151 - 155	Reserved Values
			156 - 160	Reserved Values
			161 - 165	Reserved Values
			166 - 170	Reserved Values
			171 - 175	Reserved Values
			176 - 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)
			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 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 - 35	Reserved Values
			36 - 40	Reserved Values
			41 - 45	Reserved Values
			46 - 50	Reserved Values
			51 - 55	Reserved Values
			56 - 60	Reserved Values
			61 - 65	Reserved Values
			66 - 70	Reserved Values
			71 - 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 - 95	Reserved Values
			96 - 100	Reserved Values
			101 - 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 - 125	Reserved Values
			126 - 130	Reserved Values
			131 - 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	Color Wheel.
			0-5	Open
			6-11	Centered Color VL RED Center-9
			12-17	Centered Color Dark Blue Center-15
			18-23	Centered Color Yellow Center-21
			24-29	Centered Color Kelly Green Center-27
			30-35	Centered Color Amber Center-33
			36-41	Centered Color Congo Blue Center-39
			42-47	Variable position Open Center-45
			48-68	Variable position VL RED Center-58
			69-89	Variable position Dark Blue Center-79
			90-110	Variable position Yellow Center-100
			111-131	Variable position Kelly Green Center-121
			132-152	Variable position Amber Center-142
			153-173	Variable position Congo Blue Center-163
			174-179	Variable position Open Center-177
			180-211	Variable position Color Rotate Clockwise S>>>>>>>F Center-196
			212-217	Variable position Stop no Rotation Center-215
			218-249	Variable position Color Rotate Counter Clockwise S<<<<<<<<F Center-234
			250-255	Variable position Open Center-253
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

TABLE 3. CLONE

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
15	Gobo Wheel 1 *continued*	0	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 >>>
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
			161-185	Open - No Gobo
			186 - 216	Gobo Wheel Rotate Clockwise S>>>>F

TABLE 3. CLONE

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
18	Gobo Wheel 2 (Fixed) *continued*	0	217-220	Stop No Rotation
			221-251	Gobo Wheel Rotate Counter Clockwise S>>>>>F
			252-255	Stop No Rotation
19	Iris	0	0-255	Iris size control
			0 - 200	Iris beam size open to closed
			201 - 255	Iris pulse slow to fast
20	Frame 1A	0	0 - 255	Controls Framing Shutter 1A from Open to Full (DMX 0-255).
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
			21 - 255	Reserved Values
30	Prism Index/Rot High Byte	32767	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 >>>
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	Shutter Closed
			6 - 11	Shutter Open (Default 33)
			12 - 87	Strobe Slow>>>>>>>Fast
			88 - 93	Strobe Open
			94 - 169	Strobe Random Slow>>>>>>>>Fast
			170 - 245	Strobe Random Sync Slow>>>>>>>>Fast
			246 - 251	Shutter Open
			252 - 255	Reserved
34	Programmers Channel	0		Functions do not require 3 second DMX rule. mode will change once DMX level is reached
			0-40	Idle
			41 - 45	Dimming Curve Linear
			46 - 50	Dimming Curve S-Curve
			51 - 55	Dimming Curve Square Curve (Default)**
			56 - 60	Rerserved Values
			61 - 65	Dimmer Snap On

TABLE 3. CLONE

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
34	Programmers Channel *continued*	0	66 - 70	Dimmer Snap Off (Default)
			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 - 105	Reserved Values
			106 - 110	Reserved Values
			111 - 115	Reserved Values
			116 - 120	Reserved Values
			121 - 125	Reserved Values
			126 - 130	Reserved Values
			131 - 135	Reserved Values
			136 - 140	Reserved Values
			141 - 145	Reserved Values
			146 - 150	Reserved Values
			151 - 155	Reserved Values
			156 - 160	Reserved Values
			161 - 165	Reserved Values
			166 - 170	Reserved Values
			171 - 175	Reserved Values
			176 - 255	Reserved Values
35	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 - 35	Reserved Values
			36 - 40	Reserved Values
			41 - 45	Reserved Values
			46 - 50	Reserved Values
			51 - 55	Reserved Values
			56 - 60	Reserved Values
			61 - 65	Reserved Values
			66 - 70	Reserved Values
			71 - 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 - 95	Reserved Values
			96 - 100	Reserved Values
			101 - 105	Reserved Values
			106 - 110	Boost Mode - Fixture output increase with Higher fan speed

TABLE 3. CLONE

DMX	PARAMETER	DEFAULTS	RANGE	DESCRIPTION
35	Luminaire Control *continued*	0	111 - 115	Standard Mode -
			116 - 120	Studio Mode - Reduced output with lower fan
			121 - 125	Reserved Values
			126 - 130	Reserved Values
			131 - 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	CIE 1931 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	REST 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
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

TABLE 5. CONTROL CHANNEL

RANGE DMX	ITEMS	DESCRIPTION	POWER CYCLE RULES	RECAL RULES	REST TO DEFAULT FIXTURE	RESET TO DEFAULT UI
121 - 125	Reserved		N/A	N/A	N/A	N/A
126 - 130	Reserved Values		Hold Setting	Hold Setting	Resets to Default	Resets to Default
131 - 135	Reserved Values		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	REST TO DEFUALT 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
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

4 OPERATION

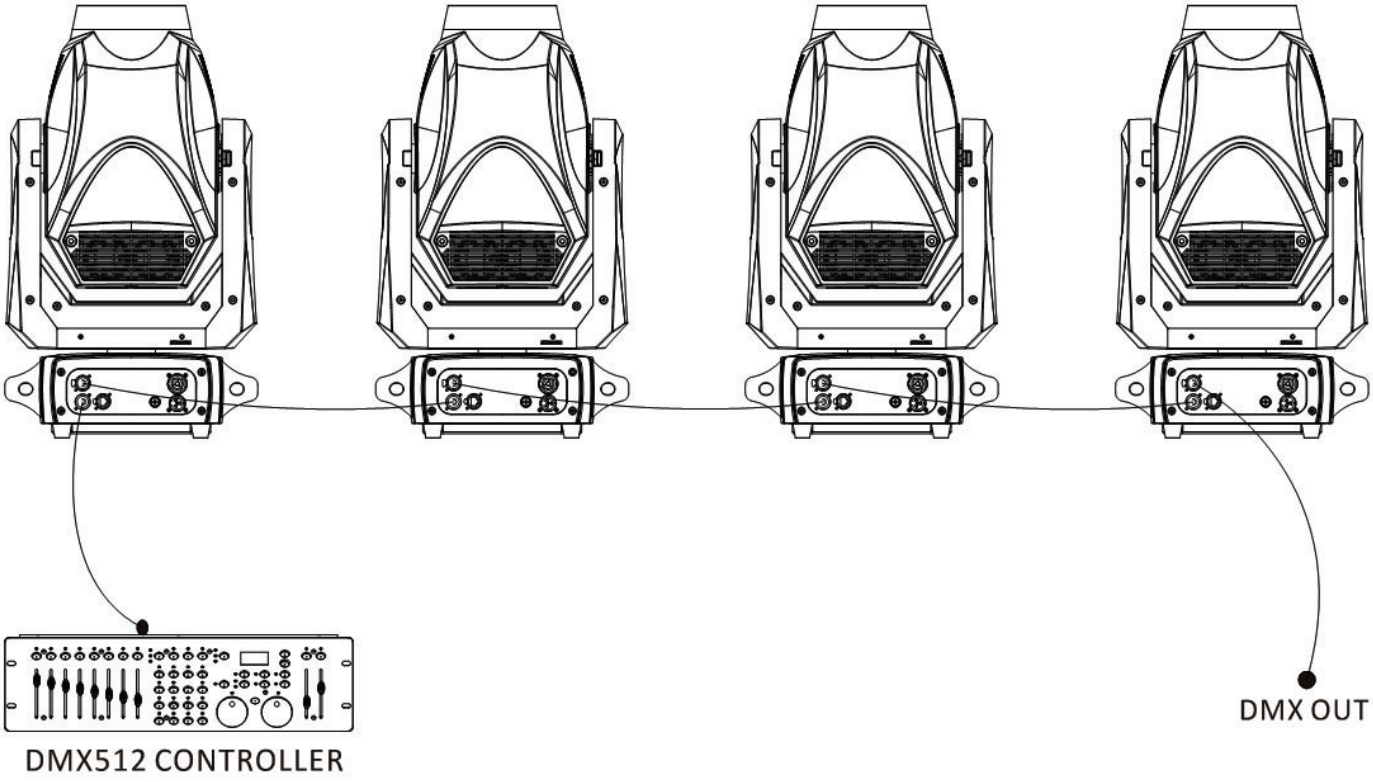
A DMX termination connector is used in this process. Solder a 120 Ω 1/4W resistor between pin 2 (DMX-) and pin 3 (DMX+) into a 5-pin XLR-plug and plug it in the DMX-output of the last unit. A maximum of 32 luminaires can be connected to one DMX512 data link.

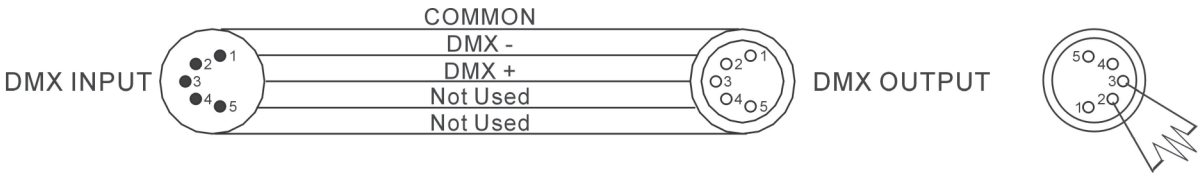
Connect the unit together in a “daisy chain” by XLR plug from the output of the unit to the input of the next unit. The cable can not branched or split to a “Y” cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal 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.





5 MENU SYSTEM

MENU OPERATION

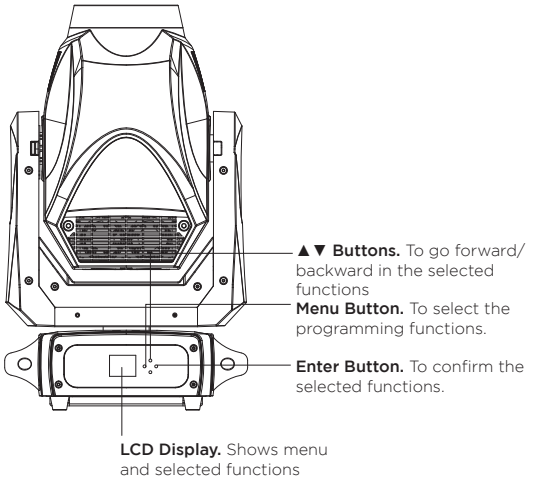
WHAT IS THE MENU SYSTEM?

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 7. 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 7. 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				

TABLE 7. MENU SYSTEM

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT
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 only (2606)	Set Position Cal	Pan	(-128~127)
					Tilt	(-128~127)
					Re. Pos. Offset	No/Yes
					ReCal Position	No/Yes
				Color Offset	Cyan	(-128~127)
					Yellow	(-128~127)
					Magenta	(-128~127)
					CTO	(-128~127)
					Color Wheel	(-128~127)
					Reset Color Offset	No/Yes
					ReCal Color	No/Yes
				Gobo Offset	Gobo1 Wheel	No/Yes
					Gobo1 Rot	(-128~127)
					Gobo2 Wheel	(-128~127)
					Reset Gobo Offset	No/Yes
					ReCal Gobo	No/Yes
				Optics Offset	Focus	(-128~127)
					Zoom	(-128~127)
					Prism	(-128~127)
					Prism Rot	(-128~127)
					Frost	(0~255)
					Re. Opt. Offset	No/Yes
					ReCal Optics	No/Yes
				Beam Offset	Iris	(0~255)
					Frame Rot	(-128~127)
					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)
					Re. Opt. Offset	No/Yes
					ReCal Frame	No/Yes
		Diagnostics	Fan Check			
			LED Temp			

TABLE 7. MENU SYSTEM

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT
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	XXXXXXX - Displays Pan Encoder				
	Encoder Tilt	XXXXXXX - Displays Tilt Encoder				
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 or ....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.

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 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.

Service Settings
Select Service Settings, press the ENTER button to go into Password access only, press ENTER to key password 2606 to confirm. Use the UP/DOWN button to select Set Position Cal, Color Offset, Gobo Offset, Optics Offset or Beam Offset, 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 Position Cal
Select Set Position Cal press the ENTER button to confirm. Use the UP/DOWN button to select Pan, Tilt, Re. Pos. Offset or ReCal Position, then use the UP/DOWN button to adjust the value for Pan or Tilt, press the ENTER button to store, the fixture will run as the channel value indicates and to select No or Yes for Re. Pos. Offset or ReCal Position. Press the MENU button back to the last menu or exit menu mode idling one minute.

Color Offset
Select Color Offset press the ENTER button to confirm. Use the UP/DOWN button to select Cyan, Yellow, Magenta, CTO, Color Wheel, Reset Color Offset or ReCal Color, then use the UP/DOWN button to adjust the value for Cyan, Yellow, Magenta, CTO or Color Wheel, press the ENTER button to store, the fixture will run as the channel value indicates and to select No or Yes for Reset Color Offset or ReCal Color. Press the MENU button back to the last menu or exit menu mode idling one minute.

Gobo Offset
Select Gobo Offset press the ENTER button to confirm. Use the UP/DOWN button to select Gobo 1 Wheel, Gobo 1 Rot, Gobo2 Wheel, Reset Gobo Offset or ReCal Gobo, then use the UP/DOWN button to adjust the value for Gobo 1 Wheel, Gobo 1 Rot or Gobo2 Wheel, press the ENTER button to store, the fixture will run as the channel value indicates and to select No or Yes for Reset Gobo Offset or ReCal Gobo. Press the MENU button back to the last menu or exit menu mode idling one minute.

Optics Offset
Select Optics Offset press the ENTER button to confirm. Use the UP/DOWN button to select Focus, Zoom, Prism, Prism Rot, Frost, Re. Opt. Offset or ReCal Optics, then use the UP/DOWN button to adjust the value for Focus, Zoom, Prism, Prism Rot or Frost, press the ENTER button to store, the fixture will run as the channel value indicates and to select No or Yes for Re. Opt. Offset or ReCal Optics. Press the MENU button back to the last menu or exit menu mode idling one minute.

Beam Offset
Select Beam Offset press the ENTER button to confirm. Use the UP/DOWN button to select Iris, Frame Rot, Frame 1A, Frame 1B, Frame 2A, Frame 2B, Frame 3A, Frame 3B, Frame 4A, Frame 4B, Re. Opt. Offset or ReCal Frame, then use the UP/DOWN button to adjust the value for Iris, Frame Rot, Frame 1A, Frame 1B, Frame 2A, Frame 2B, Frame 3A, Frame 3B, Frame 4A or Frame 4B, press the ENTER button to store, the fixture will run as the channel value indicates and to select No or Yes for Re. Opt. Offset or ReCal Frame. Press the MENU button back to the last menu or exit menu mode idling one minute.

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/Preset* 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.

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.

HOW TO OBTAIN WARRANTY SERVICE

A copy of the Vari-Lite Limited Warranty was included in the shipping package for this Vari-Lite 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
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, “Strand Lighting 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.

COMPLIANCE

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. 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.

DECLARATION OF CONFORMITY

We declare, under our sole responsibility, that this product complies with the relevant clauses of the following standards and harmonized documents:

SAFETY

EN 60598-1
EN 60598-2-17
EN 62471

EMC

EN 55015
EN 61000-3-2
EN 61000-3-3
CISPR15
EN 61547

ROHS

EN 50581

We certify that the product conforms to the protection requirements of council directives: Low Voltage Directive 2014/35/EU, 2014/30/EU (EMC), and Restriction of the use of certain Hazardous Substances in electrical and electronic equipment Directive (RoHS), 2015/863. Equipment referred to in this declaration of conformity was first manufactured in 2017 in compliance with these standards.

CUSTOMER SERVICE

If you have 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.

SAFETY 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 only. Do not use outdoors. Exposure to rain or moisture may damage fixture unless it is suitably IP rated.
- 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. This fixture contains no user serviceable parts.
- Prior to first use, carefully inspect unit for damage from shipping.
- Installation and operation to be performed by qualified personnel only.
- Use safety tether when mounting.
- Install only in locations with adequate ventilation of at least 50cm clearance from adjacent surfaces.
- Note distance requirement(s) from combustible materials or illuminated objects. Do not mount near gas or electric heaters.
- Ensure 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 ambient temperature range of -5 to 45°C.
- Do not connect the fixture to any dimmer pack.
- New fixtures may emit a chemical odor due to the manufacturing process. This odor will dissipate over time.
- Prior to each use, carefully inspect power cables and replace any damaged cables.
- Exterior surfaces of the fixture are hot during operation. Take appropriate precautions.
- Power down the fixture when not in use. Continuous use of the fixture may shorten the lifespan.
- Clean fixture 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.
- Never turn on and off the unit time after time.
- The housing, lenses, and/or the ultraviolet filter must be replaced if they are damaged.
- Disconnect mains power if the fixture is not used for a long time.
- Original packing materials can be reused for transporting the fixture.
- Do not look directly at the light beam while the fixture is on.

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.

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 CENTER:

Call: +31 (0) 543 542 531
entertainment.europe@signify.com

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