



VARI*LITE

VL5LED WASH

USER MANUAL

1 DESCRIPTION

FEATURES

- LED
- 13,000 lumen of output
- 8° to 35° zoom range
- RGBA + Lime + Cyan color mixing
- Blade system
- Ultra compact

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

COMPONENTS

INCLUDED ITEMS

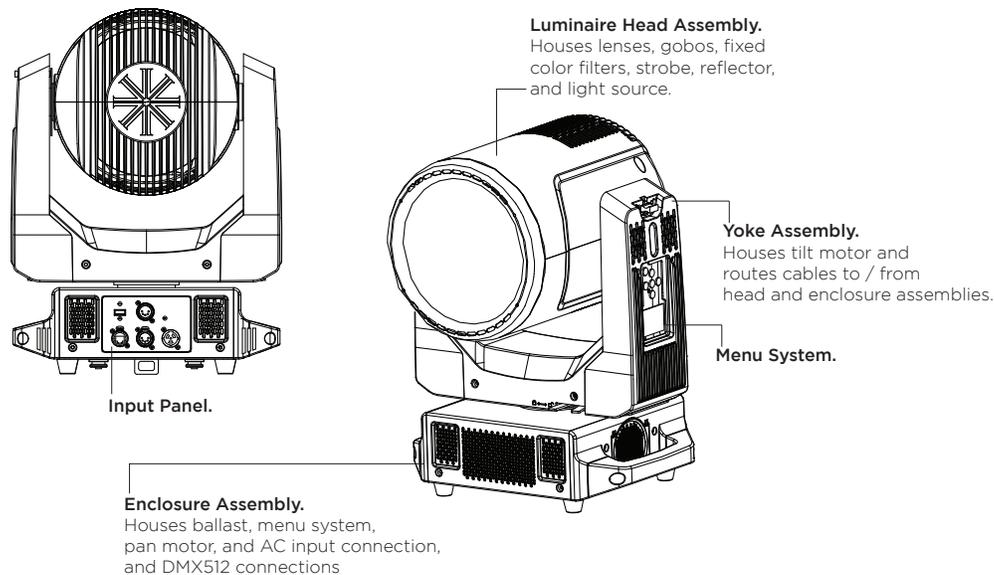
The following illustration shows all items included with the luminaire:

Note: Check with the local Signify Office or Authorized Vari*Lite dealer for availability on accessories.



LUMINAIRE OVERVIEW

The following illustration shows the external luminaire components and controls.



2 INSTALLATION

SPECIAL WARNINGS

EXCEPTIONAL SAFETY INFORMATION FOR THE VL5LED WASH

The light intensity and power density of the VL5LED WASH exceeds that of other fixtures typically used in this application. The warnings and cautions that follow are critically important to the safe operation of this fixture. This product is for commercial use only by trained professionals only.

If you have any questions about the safe installation and operation of the VL5LED WASH, please contact Vari-Lite customer service at VARI-LITE (1-877-827-4548), 1-214-647-7880, or entertainment.service@signify.com.

WARNING: Light Beam Projects Intense Heat. Do not illuminate objects within 15m (49.21 feet) of the VL5LED WASH. Objects within this range can scorch, melt, or ignite from the heat projected by the light beam.

WARNING: High Intensity Light Output. Do not look directly into the light beam. Avoid looking at nearby surfaces illuminated by the beam. It is hazardous to operate luminaires without lens or shield. Shields, lenses, or ultraviolet screens must be changed if they have become visibly damaged to such an extent that their effectiveness is impaired. For example, by cracks, deep scratches, or coating breakdown.

WARNING: Hot Exterior Surfaces. The exterior surfaces of the luminaire can get very hot - up to 120°C (248°F). Do not touch any surface of the luminaire while it is operating. Keep all combustible materials a minimum of 200 mm (7.87 inches) away from the luminaire. To maintain cooling fan operation after the LED is doused, keep the luminaire powered on for 10 minutes. Wait an additional 10 minutes before touching the luminaire.

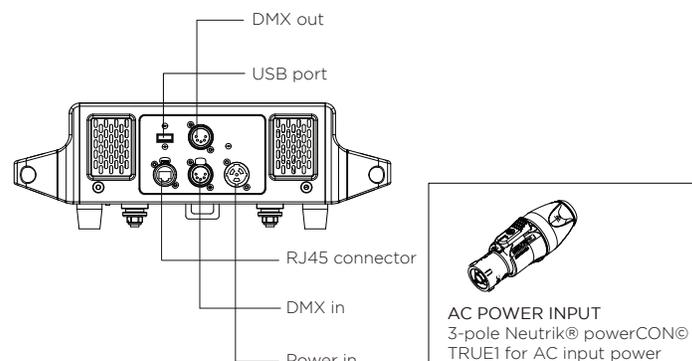
WARNING: Operating Environment. Do not operate the luminaire when the ambient temperature exceeds 45°C (113°F).

WARNING: Approved LED Type. Use only approved LED types in VL5LED WASH. Users can check the latest version of Vari-Lite Technical Notice TN-248, on the Vari-Lite web site, for all approved LED. Power and Data Cabling Requirements

POWER AND DATA CABLING REQUIREMENTS

POWER

The luminaire requires standard AC power distribution from AC100-240V~, 50/60Hz. Current required depends on the AC supply voltage and product model.



NOTE: The mating Neutrik PowerCon connector is supplied, however, you will need to purchase or construct a cable appropriate for your application. Allow one hour warm up if ambient temperature is below 10°C (50°F).

CONNECTING POWER

Depending on the application, the luminaire's AC input cable may require a different connector. If required, install a new connector meeting your requirements using the following wire color code reference:

WIRE*	CONNECTION
green	Ground (earth)
white	AC neutral
black	AC line

*International (harmonized) standard

WARNING: DO NOT connect to three-phase service in countries with 240 volt power.

For single-phase power at 240V RMS:

CONNECTION	PIN
AC neutral	N
AC line	L
Ground (earth)	G

WARNING: It is not recommended to power any Vari-Lite luminaire from a dimmer - even in 'NONDIM' mode. Dimmer and non-dim modules are not suitable sources of power because their output modifies the AC wave form. This may work for a short time, but will eventually result in power problems, luminaire mis-operation and/or failure and may void the luminaire's warranty.

DMX TERMINATION CONNECTOR

A DMX termination connector is required at the last luminaire (or "far end of the line") to prevent signal reflections. Signal reflections may cancel out the signal at certain line lengths, resulting in errors. The terminator is also necessary for software downloads and running tests on multiple luminaires. To construct your own connector, you will need a 5-pin, male XLR connector.

NOTE: A DMX termination connector assembly is available as an accessory from Vari-Lite.

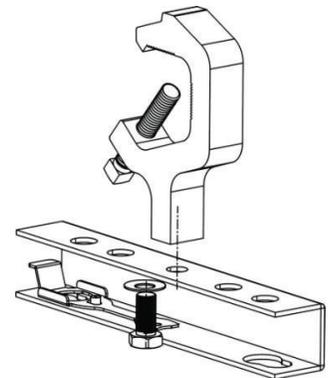
INSTALLATION PROCEDURES

HANGING THE LUMINAIRE

The VL5LED WASH can be hung horizontally or vertically from any structure designed to work with the type of load created by this moving luminaire. Two mounting truss hooks or other mounting hardware are required. Many compatible truss hooks are available from different manufacturers for your particular needs. A minimum of two hooks per luminaire is required. If mounting method does not use truss hooks, two attachment points, per luminaire, are required.

To install mounting hardware and brackets:

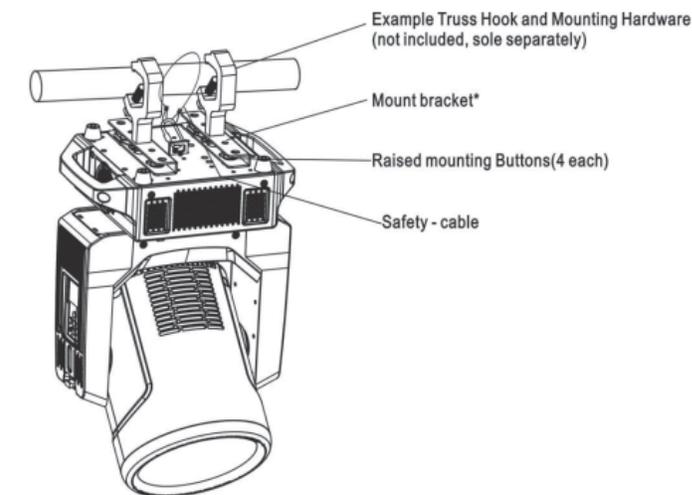
- Step 1. Install truss hooks on two provided truss hook brackets as required.
- Step 2. Determine required configuration of bracket installation. Brackets may be installed in many different orientations.
- Step 3. While pulling up on locking mechanism release, fit keyed holes onto raised mounting buttons at bottom of enclosure. Slide forward and release locking mechanism to lock in place. Ensure brackets are locked securely.



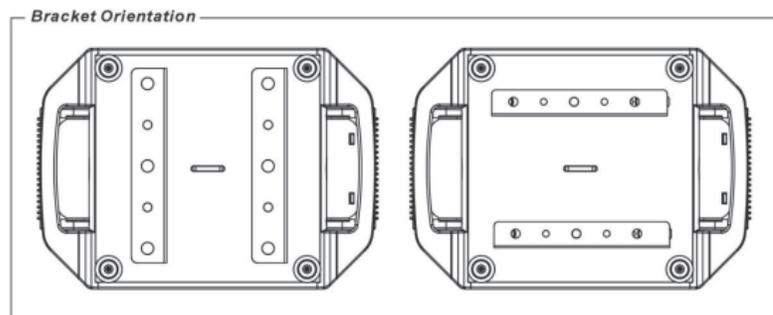
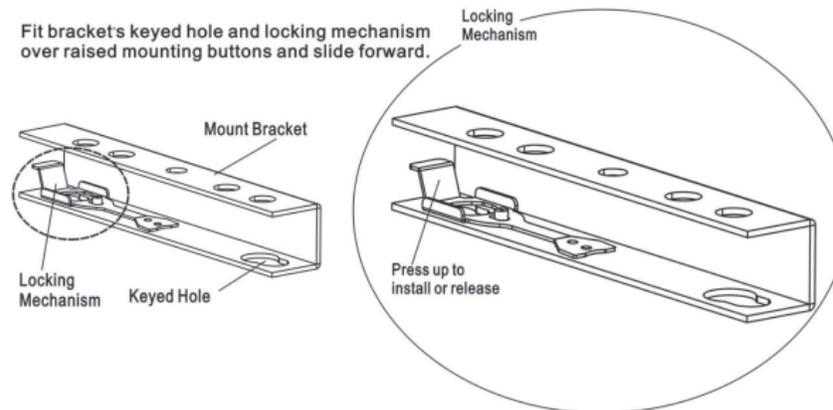
WARNING: Ensure that the bracket locking mechanism is fully seated after the bracket is installed on the luminaire.

FLOOR MOUNTING THE LUMINAIRE

All luminaires included in this manual are designed to sit directly on its base in a floor installation application.



Fit bracket's keyed hole and locking mechanism over raised mounting buttons and slide forward.



When used in this type of application, be sure to leave enough space around the luminaire to allow proper, uninterrupted airflow for cooling and movement.

WARNING: Light beam projects intense heat. Do not illuminate objects within 15m (49.21 feet) of the VL5LED WASH. Objects within this range can scorch, melt, or ignite from the heat projected by the light beam.

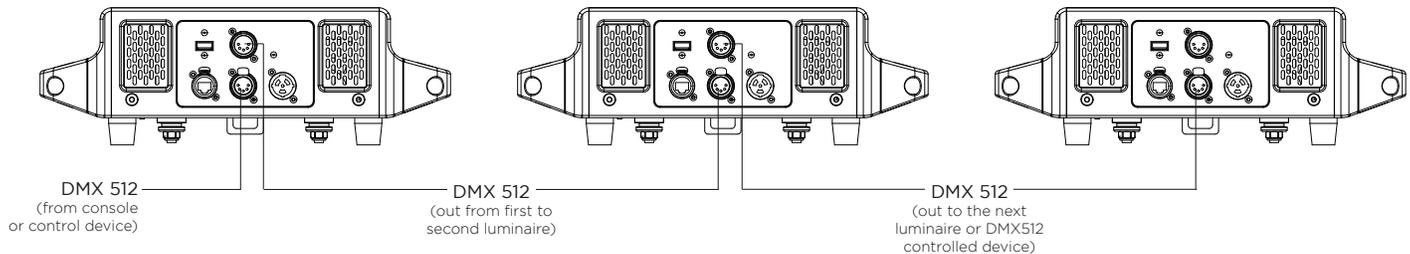
CONNECTING DATA AND POWER

A maximum of 16 luminaires may be connected in any one DMX data link.

NOTE: This maximum limit applies to the luminaire "daisy chain" only. Your system or console may require fewer luminaires on a single data link path. Consult your console documentation for more information.

To connect power and data:

- Step 1. Connect data cable from console to first luminaire in chain at DATA IN connector.
- Step 2. If required, connect additional data cables from DATA THRU connectors to DATA IN connectors of remaining luminaires in link.
- Step 3. At last luminaire in link, install male termination connector at DATA THRU connector. (Luminaires and other devices on the same DMX chain may not function properly without termination.)
- Step 4. Connect AC Input Cable connector to power input source.
- Step 5. Dress AC input and data cables and secure them so that they will not interfere with luminaire head and yoke movement.



POWERING UP

POWER UP AND CONFIGURATION PROCEDURE

The internal color, gobo, and beam mechanisms will also move through a full range of motion. After calibration, the luminaire head will either stop at its “home” position (which positions the pan axis at mid-rotation and the head parallel to the yoke with the lens pointing away from the luminaire upper enclosure) or move to its current DMX-defined position if DMX data is present. All internal mechanisms also move to their “home” or DMX-defined positions.

Subsequently, depending on the luminaire’s setting for Power-Up State (refer to “VL5LED WASH Menu System Function Chart” on page 45).

CAUTION: Before applying power, be sure the luminaire is hung or positioned so that the head and yoke can move freely without restriction. Make sure service tilt and pan locks are disengaged so luminaire moves freely.

To power up:

- Step 1. At each luminaire, apply power by connecting luminaire to input power source (100 to 240VAC). Luminaire will cycle through calibration and stop at “home” position.

ADDRESSING

PROGRAM STARTING ADDRESS

The address setting for DMX console controlled systems is entered using the Menu Display. The luminaire retains the DMX address even if power is removed.

NOTE: Refer to your console operating instructions for specific information regarding its addressing requirements.

To program a DMX starting address:

- Step 1. Power unit on (either via mains or battery)
- Step 2. Press [ESC] to access menu
- Step 3. Press [▲] or [▼] to access ADDRESS and press [OK].
- Step 4. Use [◀] or [▶] to move cursor to Hundreds, Tens or Ones...then press [◀] or [▶] to select desired digit. Note it will scroll from 9 to 0 or 0 to 9. Once all three digits are set, press [OK] to accept.

PROGRAM STARTING ADDRESS WITHOUT CALIBRATING LUMINAIRE

It is possible to bypass the calibration sequence and go directly to the Menu Display programming in order to pre-program an address setting.

To program starting address without calibrating luminaire:

- Step 1. While powering up luminaire, press and hold
- Step 2. Program address as in Program Starting Address above.
- Step 3. Press and hold until display changes to the DMX address.
- Step 4. Alternatively, boot via battery. Press [ESC] and [OK] the same time until display boots

NOTE: The luminaire requires a reset to restore control.

3 OPERATION

DMX CHANNELS

CHANNEL MAPPING

The following table 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. VL5LED WASH DMX CHANNEL MAPPING

DMX LED GROUP		PARAMETER	DEFAULT	RANGE	DESCRIPTION
1	16				
1	1	Intensity High	0	0-65535	16-Bit control of Dimming
2	2	Intensity Low			
3	3	Pan High	32767	0-65535	540° Total Pan Rotation
4	4	Pan Low			
5	5	Tilt High	32767	0-65535	270° Total Tilt
6	6	Tilt Low			
7	7	Zoom High	128	0-255	Zoom control 0 = widest zoom 255 = narrowest zoom Default value 50% zoom range
8	8	Red (High)	0	0-65535	0 - 100% linear control of Red LED output
9	9	Red (Low)			
10	10	Green (High)	0	0-65535	0 - 100% linear control of Green LED output
11	11	Green (Low)			
12	12	Blue (High)	0	0-65535	0 - 100% linear control of Blue LED output
13	13	Blue (Low)			
14	14	Amber (High)	0	0-65535	0 - 100% linear control of Amber LED output
15	15	Amber (Low)			
16	16	Lime (High)	0	0-65535	0 - 100% linear control of Lime LED output
17	17	Lime (Low)			
18	18	Cyan (High)	0	0-65535	0 - 100% linear control of Cyan LED output
19	19	Cyan (Low)			

TABLE 1. VL5LED WASH DMX CHANNEL MAPPING

DMX LED GROUP		PARAMETER	DEFAULT	RANGE	DESCRIPTION
1	16				
20	20	Color Preset	0	0 - 10 11 -14 15 - 18 19 - 22 23 - 26 27 - 30 31 - 34 35 - 38 39 - 42 43 - 46 47 - 50 51 -54 55 -58 59 - 62 63 - 66 67 - 70 71 - 74	Calibrated color presets 01 to 33; User definable color preset 01 to 20 Channel OFF Color Mixing take priority CP_1_Moroccan Pink CP_2_Pink CP_3_Flesh Pink CP_4_Bright Rose CP_5_Follies Pink CP_6_Fuchsia Pink CP_7_Surprise Pink CP_8_Congo Blue CP_9_Blue CP_10_Virgin Blue CP_11_Midnight Maya CP_11_Double C.T Blue CP_13_Slate Blue CP_14_Regal Blue CP_15_Full C.T Blue CP_16_Steel Blue

TABLE 1. VL5LED WASH DMX CHANNEL MAPPING

DMX LED GROUP		PARAMETER	DEFAULT	RANGE	DESCRIPTION
1	16				
20	20	Color Preset	0	75 - 78	CP_17_Lighter Blue
				79 - 82	CP_18_Cyan
				83 - 86	CP_19_Marine Blue
				87 - 90	CP_20_Soft Green
				91 - 94	CP_21_Moss Green
				95 - 98	CP_22_Green
				99 - 102	CP_23_Fem Green
				103 - 106	CP_24_JAS Green
				107 - 110	CP_25_Pale Green
				111 - 114	CP_26_Spring Yellow
				115 - 118	CP_27_Yellow
				119 - 122	CP_28_Deep Amber
				123 - 126	CP_29_Chrome Orange
				127 - 130	CP_30_Orange
				131 - 134	CP_31_Magenta
				135 - 138	CP_32_Flame Red
				139 - 142	CP_33_Purple
				143 - 146	User Preset 1
				147 - 150	User Preset 2
				151 - 154	User Preset 3
				155 - 158	User Preset 4
				159 - 162	User Preset 5
				163 - 166	User Preset 6
				167 - 170	User Preset 7
				171 - 174	User Preset 8
				175 - 178	User Preset 9
				179 - 182	User Preset 10
183 - 186	User Preset 11				
187 - 190	User Preset 12				
191 - 194	User Preset 13				
195 - 198	User Preset 14				
199 - 202	User Preset 15				
203 - 206	User Preset 16				
207 - 210	User Preset 17				
211 - 214	User Preset 18				
215 - 218	User Preset 19				
219 - 222	User Preset 20				
223 - 255	Channel OFF Color Mixing take priority				
21	21	Frost	0	0-255	Linear control of frost mechanism 0 = Fully open 255 = full closed

TABLE 1. VL5LED WASH DMX CHANNEL MAPPING

DMX LED GROUP		PARAMETER	DEFAULT	RANGE	DESCRIPTION
1	16				
22	22	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
23	23	Fan Control	0	0-255 0-4 05-255	Dynamically control fan speed vs LED Output operation. Control values as follows . . . Automatic fan/output adjustment (Default) Linear control of fan speed and LED max output* DMX 5 =Highest Constant Fan Speed DMX 255 = Lowest Constant Fan Speed * Standard mode only
24	24	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 - 105 106 - 110 111 - 115 116 - 120 121 - 125 126 - 130 131 - 135 136 - 140 141 - 145 146 - 150 151 - 155 156 - 160 161 - 165 166 - 170 171 - 175 176 - 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 Reserved Values Reserved Values Reserved Values Color Snap off (Default) Color Snap on Reserved Values Movement fast (Default) Movement smooth Reserved Values Tungsten Dimming On Tungsten Dimming Off (Default) Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values Reserved Values

TABLE 1. VL5LED WASH DMX CHANNEL MAPPING

DMX LED GROUP		PARAMETER	DEFAULT	RANGE	DESCRIPTION
1	16				
25	25	Focus Timing	255	0-255	See timing table
26	26	Color Timing	255	0-255	See timing table
27	27	Beam Timing	255	0-255	See timing table
28	28	Control Channel	0	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).
				0 - 5	Idle (Default)
				6 - 10	Full Luminaire ReCal
				11 - 15	Fixture Shutdown
				16 - 20	Reserved Values
				21 - 25	Reserved Values
				26 - 30	Reserved Values
				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
				91 - 95	Color Calibration on
				96 - 100	Color Calibration off (Default)
				101 - 105	Reserved Values
				106 - 110	Reserved Values
				111 - 115	Standard Mode -Fixture operates at maximum output (Default)
116 - 120	Studio Mode - Reduced output with lower fan settings				
121 - 125	Whisper Mode -Reduced output with lower fan settings				
126 - 130	Reserved Values				
131 - 135	Record User Color Preset				
136 - 140	Fan On (Default)				
141 - 145	Fan Auto				
146 - 150	Reserved Values				
151 - 155	ReCal Position				
156 - 160	Reserved Values				
161 - 165	ReCal Beam				
166 - 170	Reserved Values				
171 - 175	Reset fixture to default				
176 - 255	Reserved Values				
29	29	Intensity Blades	0	0-65535	8-bit Dimming control of the Blade LED

TABLE 1. VL5LED WASH DMX CHANNEL MAPPING

DMX LED GROUP		PARAMETER	DEFAULT	RANGE	DESCRIPTION
1	16				
30	30	Blade light - color Preset	0	0 - 5	No color
				6	Full Red
				7	Full Green
				8	Full Blue
				9	Full White (Red + Green + Blue 100%)
				10	Full Yellow (Blue + Green 100%)
				11	Full Magenta (Red + Blue 100%)
				12	Full Cyan (Blue + Green 100%)
				13	Moroccan Pink
				14	Pink
				15	Flesh Pink
				16	Bright Rose
				17	Follies Pink
				18	Fuchsia Pink
				19	Surprise Pink
				20	Congo Blue
				21	Blue
				22	Virgin Blue
				23	Midnight Maya
				24	Double C.T Blue
				25	Slate Blue
				26	Regal Blue
				27	Full C.T Blue
				28	Steel Blue
				29	Lighter Blue
				30	Cyan
				31	Marine Blue
				32	Soft Green
				33	Moss Green
				34	Green
				35	Fem Green
				36	JAS Green
				37	Pale Green
				38	Spring Yellow
				39	Yellow
				40	Deep Amber
				41	Chrome Orange
				42	Orange
				43	Magenta
				44	Flame Red
				45	Purple
				46	Color Effect 1
				47	Color Effect 2
				48	Color Effect 3
				49	Color Effect 4
				50	Color Effect 5

TABLE 1. VL5LED WASH DMX CHANNEL MAPPING

DMX LED GROUP		PARAMETER	DEFAULT	RANGE	DESCRIPTION
1	16				
30	30	Blade light - Color Preset	0	51	Color Effect 6
				52	Color Effect 7
				53	Color Effect 8
				54	Color Effect 9
				55	Color Effect
				56 - 94	Color Chase 1 (S>>>>>F)
				95 - 133	Color Chase 2 (S>>>>>F)
				134 - 172	Color Chase 3 (S>>>>>F)
				173 - 211	Color Chase 4 (S>>>>>F)
				212 - 250	Color Chase 5 (S>>>>>F)
251 - 255	No Color				
31	31	Blade light - Macro Effects	0	0 - 5	No effect static color based on Blade color preset channel uses blade effect fade & speed channels to control perimeters of chase 6
				6	Strobe Sync full 7
				7	Strobe Random full 8
				8	Blade chase 1 >>> 16 9
				9	Random blade chase
				10	Blade chase (Paired blades) Start 1,2
				11	Blade chase (Paired blades) Start 1,3
				12	Blade chase (1/4 blades) Start 1,2,3,4,5
				13	Blade chase (1/2 blades) Start 1,2,3,4,5,6,7,8,9
				14	Blade chase (opposing blades single) Start 1,9
				15	Blade chase (opposing blades pairs) Start 1,2,9,10
				16	Blade chase (opposing blades pairs) Start 1,3,9,11
				17	Blade chase (opposing blades pairs) Start 1,5,9,13
				18	Blade chase (opposing blades 1/4) Start 1,2,3,4,5,9,10,11,12,13
				19	Blade chase (opposing 4 Pixel Rotating) Start 1,5,9,13
				20	Blade chase (3 Pixel Rotation) Start 1,7,11
				21	Blade chase TBC
				22	Blade chase TBC
				23	Blade chase TBC
				24	Blade chase TBC
25	Blade chase TBC				
26	Blade chase TBC				
27	Blade chase TBC				
28	Blade chase TBC				
29	Blade chase TBC				
30	Blade chase TBC				
31-255	Reserved				
32	32	Blade light effects fade time	0	0 - 255	0 Fade time to XX fade time

TABLE 1. VL5LED WASH DMX CHANNEL MAPPING

DMX LED GROUP		PARAMETER	DEFAULT	RANGE	DESCRIPTION
1	16				
33	33	Blade light effect speed	0	0 - 5	Stop No movement
				6 - 106	Clockwise chase S>>>>>>>>>F (Strobe flash rate in strobe effects)
				106 - 112	Pause No movement hold last position
				113 - 213	Counter clockwise chase S>>>>>>>>>F
				214 - 224	Pause No movement hold last position
				225 - 235	Stop No movement
				236 - 255	Reserved
34	34	Blade LED Red (1*) *blade 1 of 16 group	0	0 - 255	8-bit control of Red LED blade light
35	35	Blade LED Green (1*) *blade 1 of 16 group	0	0 - 255	8-bit control of Green LED blade light
36	36	Blade LED Blue *blade 1 of 16 group	0	0 - 255	8-bit control of Blue LED blade light
	37	Blade LED Red 2	0	0 - 255	8-bit control of Red LED blade light
	38	Blade LED Green 2	0	0 - 255	8-bit control of Green LED blade light
	39	Blade LED Blue 2	0	0 - 255	8-bit control of Blue LED blade light
	40	Blade LED Red 3	0	0 - 255	8-bit control of Red LED blade light
	41	Blade LED Green 3	0	0 - 255	8-bit control of Green LED blade light
	42	Blade LED Blue 3	0	0 - 255	8-bit control of Blue LED blade light
	43	Blade LED Red 4	0	0 - 255	8-bit control of Red LED blade light
	44	Blade LED Green 4	0	0 - 255	8-bit control of Green LED blade light
	45	Blade LED Blue 4	0	0 - 255	8-bit control of Blue LED blade light
	46	Blade LED Red 5	0	0 - 255	8-bit control of Red LED blade light
	47	Blade LED Green 5	0	0 - 255	8-bit control of Green LED blade light
	48	Blade LED Blue 5	0	0 - 255	8-bit control of Blue LED blade light
	49	Blade LED Red 6	0	0 - 255	8-bit control of Red LED blade light
	50	Blade LED Green 6	0	0 - 255	8-bit control of Green LED blade light
	51	Blade LED Blue 6	0	0 - 255	8-bit control of Blue LED blade light
	52	Blade LED Red 7	0	0 - 255	8-bit control of Red LED blade light
	53	Blade LED Green 7	0	0 - 255	8-bit control of Green LED blade light
	54	Blade LED Blue 7	0	0 - 255	8-bit control of Blue LED blade light
	55	Blade LED RED 8	0	0 - 255	8-bit control of Red LED blade light
	56	Blade LED Green 8	0	0 - 255	8-bit control of Green LED blade light
	57	Blade LED Blue 8	0	0 - 255	8-bit control of Blue LED blade light
	58	Blade LED RED 9	0	0 - 255	8-bit control of Red LED blade light
	59	Blade LED Green 9	0	0 - 255	8-bit control of Green LED blade light
	60	Blade LED Blue 9	0	0 - 255	8-bit control of Blue LED blade light
	61	Blade LED RED 10	0	0 - 255	8-bit control of Red LED blade light
	62	Blade LED Green 10	0	0 - 255	8-bit control of Green LED blade light
	63	Blade LED Blue 1	0	0 - 255	8-bit control of Blue LED blade light
	64	Blade LED RED 11	0	0 - 255	8-bit control of Red LED blade light
	65	Blade LED Green 11	0	0 - 255	8-bit control of Green LED blade light
	66	Blade LED Blue 11	0	0 - 255	8-bit control of Blue LED blade light
	67	Blade LED RED 12	0	0 - 255	8-bit control of Red LED blade light
68	Blade LED Green 12	0	0 - 255	8-bit control of Green LED blade light	
69	Blade LED Blue 12	0	0 - 255	8-bit control of Blue LED blade light	

TABLE 1. VL5LED WASH DMX CHANNEL MAPPING

DMX LED GROUP		PARAMETER	DEFAULT	RANGE	DESCRIPTION
1	16				
	70	Blade LED RED 13	0	0 - 255	8-bit control of Red LED blade light
	71	Blade LED Green 13	0	0 - 255	8-bit control of Green LED blade light
	72	Blade LED Blue 13	0	0 - 255	8-bit control of Blue LED blade light
	73	Blade LED RED 14	0	0 - 255	8-bit control of Red LED blade light
	74	Blade LED Green 14	0	0 - 255	8-bit control of Green LED blade light
	75	Blade LED Blue 14	0	0 - 255	8-bit control of Blue LED blade light
	76	Blade LED RED 15	0	0 - 255	8-bit control of Red LED blade light
	77	Blade LED Green 15	0	0 - 255	8-bit control of Green LED blade light
	78	Blade LED Blue 15	0	0 - 255	8-bit control of Blue LED blade light
	79	Blade LED RED 16	0	0 - 255	8-bit control of Red LED blade light
	80	Blade LED Green 16	0	0 - 255	8-bit control of Green LED blade light
	81	Blade LED Blue 16	0	0 - 255	8-bit control of Blue LED blade light

Notes:

- **Default Values:** Denotes recommended console default settings.
- **Use of Timing Channels:** The default value setting in the profile should be 255 (proportional control) to allow smooth movement when using console timing. The Timing channel data should change as a snap. A zero value will give the fastest move but without any smoothing, this can look steppy in console-timed moves.
- To use a timing channel instead of console timing it is necessary to set the timing channel to the desired value and set cue and/or parameter time to zero. A combination of time controls can produce unexpected results. Refer to “VL5LED WASH Timing Channel Information” on page 30 for more information.
- **Timing Channel Control:** The luminaire uses the timing channel value to calculate a smooth continuous movement for a given time and transition.

CONTROL CHANNEL FUNCTIONS

Control channel functions allow special actions such as reset and partial recalibration. These must be executed with zero time transition or with timing disabled. Discrete values must be used; not manual controls such as faders or encoders (see chart below for values).

RESET - resets all luminaire mechanisms.

PARTIAL RECALIBRATION - resets only the target mechanism (color, gobo, zoom, etc.) without affecting others.

TABLE 2. VL5LED WASH CONTROL CHANNEL

DMX LED GROUP		PARAMETER	DEFAULT	RANGE	DESCRIPTION
1	16				
28	28	Control Channel	0	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).
				0 - 5	Idle (Default)
				6 - 10	Full Luminaire ReCal
				11 - 15	Fixture Shutdown
				16 - 20	Reserved Values
				21 - 25	Reserved Values
				26 - 30	Reserved Values
				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
				91 - 95	Color Calibration on
				96 - 100	Color Calibration off (Default)
				101 - 105	Reserved Values
				106 - 110	Reserved Values
				111 - 115	Standard Mode -Fixture operates at maximum output (Default)
				116 - 120	Studio Mode - Reduced output with lower fan settings
				121 - 125	Whisper Mode -Reduced output with lower fan settings
				126 - 130	Reserved Values
				131 - 135	Record User Color Preset
				136 - 140	Fan On (Default)
				141 - 145	Fan Auto
				146 - 150	Reserved Values
				151 - 155	ReCal Position
				156 - 160	Reserved Values
				161 - 165	ReCal Beam
				166 - 170	Reserved Values
				171 - 175	Reset fixture to default
				176 - 255	Reserved Values

To use control channel functions:

- Step 1. Select an action to be sent.
- Step 2. Set control channel value for desired action (for example, 6 for ReCal). Hold value for 3 seconds.
- Step 3. Set control channel value to zero. (This must occur without any scaling values. Action will be voided if other values are detected between action value and zero.)

NOTE: A numerical keypad is suggested for sending values. An encoder or fader does not allow for a quick

value change, which is required to effect the control functions.

DMX MAPPING

COLOR CONTROL

The luminaire's color system is composed of a CMY color mixing mechanism and one color wheel. The following sections describe these components.

COLOR MIXING

The color mixing mechanism is made up of six graduated color flags: red, green, blue, amber, lime and cyan. These flags provide full-spectrum color cross fades from pastel to saturated color.

TABLE 3. DMX MAP FOR RED, GREEN, BLUE, AMBER, LIME, AND CYAN

DMX LED GROUP		PARAMETER	DEFAULT	RANGE	DESCRIPTION
1	16				
8	8	Red (High)	0	0-65535	0 - 100% linear control of Red LED output
9	9	Red (Low)			
10	10	Green (High)	0	0-65535	0 - 100% linear control of Green LED output
11	11	Green (Low)			
12	12	Blue (High)	0	0-65535	0 - 100% linear control of Blue LED output
13	13	Blue (Low)			
14	14	Amber (High)	0	0-65535	0 - 100% linear control of Amber LED output
15	15	Amber (Low)			
16	16	Lime (High)	0	0-65535	0 - 100% linear control of Lime LED output
17	17	Lime (Low)			
18	18	Cyan (High)	0	0-65535	0 - 100% linear control of Cyan LED output
19	19	Cyan (Low)			

TABLE 4. DMX MAP FOR STROBE

DMX LED GROUP		PARAMETER	DEFAULT	RANGE	DESCRIPTION
1	16				
22	22	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	

TABLE 5. BEAM CONTROL

DMX LED GROUP		PARAMETER	DEFAULT	RANGE	DESCRIPTION
1	16				
27	27	Beam Timing	255	0-255	See timing table

TIMING

TIMING CHANNEL INFORMATION

Timing channel control improves the timed moves of certain groups of parameters. We provide up to three timing channels - Focus (pan and tilt), Color Time (color parameters), and Beam Time (beam parameters).

Types of timing control:

- Timing Control Channel: the luminaire uses its timing channel value to calculate a smooth continuous movement for a given time and transition.
- Console Timing: the console calculates the time duration between the DMX increments to be sent for a given time and transition.

GUIDELINES:

- Timing channels support time values of up to six minutes.
- To use a timing channel instead of console timing, it is necessary to set the timing channel to the desired value and set cue and/or parameter time to zero. A combination of time controls can produce unexpected results.
- The default value setting in the profile should be 255 (proportional control) to allow smooth movement when using console timing.
- The timing channel data should change as a snap. A zero value will give the fastest move, however, without any smoothing this can appear “steppy” in console timed moves.

NOTE: Some parameters have been excluded from the timing channels. Wheel spin and gobo rotation rate changes are not affected by timing channels.

TABLE 6. CHANNEL FUNCTION / TIMING CHANNEL RELATIONSHIP

DMX LED GROUP		PARAMETER	DEFAULT	RANGE	DESCRIPTION
1	16				
25	25	Focus Timing	255	0 - 255	See timing table
26	26	Color Timing	255	0 - 255	See timing table
27	27	Beam Timing	255	0 - 255	See timing table

A timing value of zero is full speed. A time value of 100% (or DMX 255) enables the associated parameter(s) to follow cue fade time (console time) rather than the timing channel.

NOTE: The particular storing syntax for your console, as well as instructions on how to write part cues, can be found in the operation manual for that console.

To use these channels, you must:

- Step 1. Create the cue, including color and frost as required.
- Step 2. Decide which fixtures and which parameter groups will use timing channels.
- Step 3. Assign a value to the particular timing channel(s) you wish to use (for timing information, see chart on next page).
- Step 4. Set console timing (or cue fade time) for parameters and timing channels to zero seconds.
- Step 5. Store cue.

NOTE: Avoid changing timing channel values in a fading cue. This can cause unexpected behavior in the luminaire as the timing channel value is updated over time. Timing channel values and the final destination of the parameters affected by the timing channel should always be sent in a zero count.

Timing channels can be set in either % or 0-255(DMX) modes, with the following values assigned:

TABLE 7. 3 TIMING CHANNELS

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

TABLE 7. 3 TIMING CHANNELS

DMX VALUE	% VALUES	TIME (S)	DMX VALUE	% VALUES	TIME (S)	DMX VALUE	% VALUES	TIME (S)
138	54	44	184	72	70	230	90	220
139		45	185		75	231		230
140	55	45	186	73	75	232	91	230
141		45	187		75	233		230
142		46	188		80	234		240
143	56	46	189	74	80	235	92	240
144		47	190		85	236		250
145	57	47	191	75	85	237	93	250
146		47	192		85	238		250
147		48	193		90	239		260
148	58	48	194	76	90	240	94	260
149		49	195		95	241		270
150	59	49	196	77	95	242	95	270
151		49	197		95	243		270
152		50	198		100	244		280
153	60	50	199	78	100	245	96	280
154		50	200		110	246		290
155		51	201	79	110	247	97	290
156	61	51	202		110	248		290
157		52	203		120	249		300
158	62	52	204	80	120	250	98	300
159		52	205		120	251		310
160		53	206	81	130	252	99	310
161	63	53	207		130	253		310
162		54	208		140	254		310
163	64	54	209	82	140	255	100	Follows Cue Data
164		54	210		140			
165		55	211		150			
166	65	55	212	83	150			
167		56	213		160			
168	66	56	214	84	160			
169		56	215		160			
170		57	216		170			
171	67	57	217	85	170			
172		58	218		180			
173	68	58	219	86	180			
174		58	220		180			
175		59	221		190			
176	69	59	222	87	190			
177		59	223		200			
178		60	224	88	200			
179	70	60	225		200			
180		65	226		210			
181	71	65	227	89	210			
182		65	228		210			
183		70	229		220			

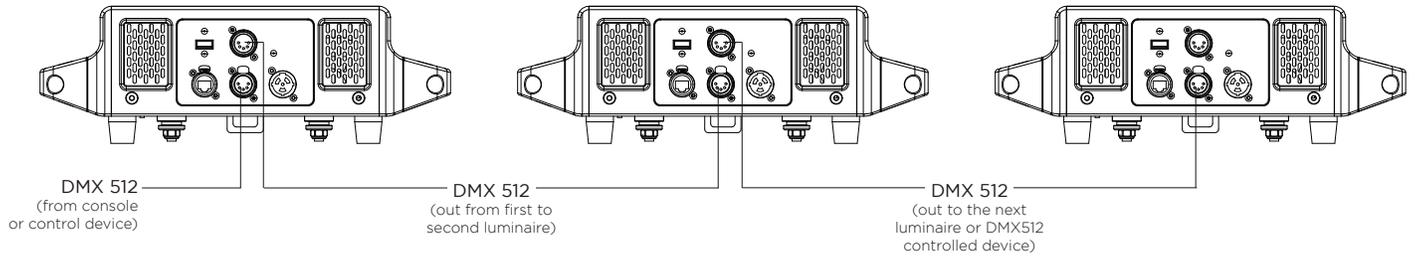
UPDATING SOFTWARE

TRANSFERRING SOFTWARE BETWEEN LUMINAIRES

It is possible to transfer specific software versions between luminaires. As in the case of installing new software versions, multiple luminaires can be programmed at the same time if they are data linked together (refer to “Connecting Data and Power” on page 14), however a maximum of 16 luminaires can be updated at once.

HARDWARE REQUIREMENTS

A DMX termination connector is used in this process. Refer to page 16 for more information regarding the construction of this connector.



To transfer software versions between luminaires:

- Step 1. At last luminaire, install DMX termination connector into DATA THRU XLR connector.
- Step 2. At master luminaire (first in chain) Menu Display, press [ESC].
- Step 3. Press ▲▼◀▶ arrows until Fixture appears.
- Step 4. Press ▲▼◀▶ arrows until Crossload appears. Press [OK].
- Step 5. Unplug DMX From Console? will be displayed. Press [OK] to accept.
- Step 6. Once download is complete, luminaire automatically recalibrates. Once recalibration is complete, recalibrate luminaire one additional time.

To Verify software version at luminaire:

- Step 1. At Menu Display, press [ESC].
- Step 2. Press ▲▼◀▶ arrows until Fixture appears. Press [OK].
- Step 3. Press ▲▼◀▶ arrows until Version appears. Press [OK].
 - Part 1 of the version will be displayed as VXXX.
 - Press to display part 2 of version. This will be displayed as a date (MM/DD/YY). For example, 12/25/19 (December 25, 2019). Press to display part 3 of version. This will be displayed as a time (HH:MM). For example, 16.36 (4:36 pm).

4 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 [ESC], [OK], and four ▲▼◀▶ Arrow buttons.

The arrows will 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 [OK].
- Step 4. Press ▲▼◀▶ choose the "Display", and press [OK].
- Step 5. Press ▲▼◀▶ choose the "On Time", and press [OK].
- 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.

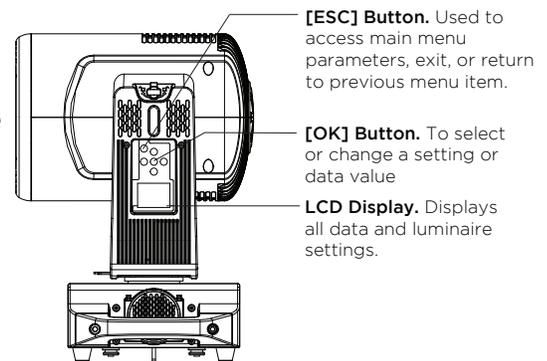


TABLE 8. VL5LED WASH MENU SYSTEM CHART

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 Lamp Hour	Are you sure?				
		Dimming Curve	Square Law Curve			(Default)	
			S Law Curve				
			Linear Law Curve				
		Tungsten Fade	On				
			Off			(Default)	
		Dimming Snap / Speed	On (Fast)				
			Off (Slow)				
		Output Mode	Boost				
			Standard				
			Studio				
			Whisper				
		Fan Mode	Silent				
			On			(Default)	
				Auto			
				900Hz			
				910Hz			
				920Hz			
				930Hz			
				940Hz			
				950Hz			
				960Hz			
				980Hz			
				990Hz			
				1000Hz			
				1500Hz			(Default)
				2500Hz			
				4000Hz			
				5000Hz			
				10000Hz			
				15000Hz			
				20000Hz			
			25000Hz				
			White Balance	Red		125 - 255	Default 255
				Green Default		125 - 255	Default 256
				Blue 125 - 255		125 - 255	Default 257
				Amber		125 - 255	Default 258
				Lime		125 - 255	Default 259
				Cyan		125 - 255	Default 260
				Reset to default		Are you sure?	
Color	Color Snap / Speed	On (Fast)					
		Off (Slow)			(Default)		
	Color Calibration	On					
Off			(Default)				

TABLE 8. VL5LED WASH MENU SYSTEM CHART

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT
Configure	Movement	Tilt Motor	Enable			(Default)
			Disable			
		Pan Motor	Enable			(Default)
			Disable			
		Movement Mode	Fast Movement			(Default)
			Smooth Movement			
	Display	Orientation	Auto			(Default)
			Up			
			Down			
		On Time	30 s			
			5 min			
10 min						
Reset Defaults	Are you sure?					
DMX	Address	001-512				
	DMX Mode	Smart Color Control				(Default)
		Open source color control				
	Blade LED Group	1				(Default)
		16				
	Select Signal	DMX only				(Default)
		Art-Net On IP2	On			
			Off			
		Art-Net On IP10	On			
			Off			
		SACN	On			
	Off					
	Set Artnet	Set Universe	000 - 255			(Default 000)
		Ethernet IP	XXX. XXX. XXX. XXX			
		Ether Mask IP	XXX. XXX. XXX. XXX			
	SACN	Set Universe	000 - 255			(Default 000)
		Ethernet IP	XXX. XXX. XXX. XXX			
		Ether Mask IP	XXX. XXX. XXX. XXX			
	Pan / Tilt	Swap Pan/Tilt	On			
			Off			(Default)
		Invert Pan	On			
			Off			(Default)
		Invert Tilt	On			
Off					(Default)	
Data	Ch 1 - Intensity XXX (Value)					
	Ch 2 - Intensity Fine XXX (Value)					
All functions					
Fixture	Status	(No Errors... or displays a list of errors)				
	Recalibrate Fixture	Are you sure?				
	Reboot Fixture	Are you sure?				
	Version	VXXX	MM/D/YY		HH:MM	
	Fixture Hours	XXXXXXX h				

TABLE 8. VL5LED WASH MENU SYSTEM CHART

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	DEFAULT	
Fixture (cont'd)	Cross load	Send					
	Service	Service Settings	Set Position Cal		Pan		
					Tilt		
			Re. Pos. Offset				
			ReCal Position				
		Beam Offset	Zoom				
	Diagnostics				Frost		
					Fan Check		
					Board Check		
					Sensor Check		
				Debug			
Test	All Test	(Run 'ALL TEST')					
	Pan/Tilt Test	(Run 'PAN/TILT TEST')					
	Test Channel	Intensity					
		Pan					
	All functions					
	Encoder Pan	XXXXXXXX - Displays Pan Encoder					
Encoder Tilt	XXXXXXXX - Displays Tilt Encoder						
Manual Mode Color Preset	Preset Playback	Select preset	1 to 33				
		Select user preset	1 to 20				
		Intensity	0 - 255				
	User Preset Setting				Intensity*	0 - 255	
					Red	0 - 255	
					Green	0 - 255	
					Blue	0 - 255	
					White	0 - 255	
					Amber	0 - 255	
					Lime	0 - 255	
					Cyan	0 - 255	
					Pan	1 - 255	
					Tilt	2 - 255	
					Zoom	3 - 255	
					Frost	4 - 255	
					Store (user prest)	1 >>>>> 20	Are you sure?
			Clear	1 >>>>> 20	Are you sure?		

NOTE: When doing a disable head motors, the lamp will shut off automatically as a safety action since lamp cooling is related to shutter/strobe.

SERVICE MENU ITEMS

To Set Position Cal (Tilt example)

- Step 1. Step 1. Press [ESC] access the main menu.
- Step 2. Press choose the “Fixture”, and press
- Step 3. Press choose the “Service”, and press .
- Step 4. Press choose the “Service Setting”, and press
- Step 5. Press choose the “Set Position Cal”, and press

Step 6. Press choose the “Tilt”, and press .

Set Manual Mode Color Preset:

Step 1. Press access the main menu.

Step 2. Press choose the “Manual Mode Color Preset”, and press

Step 3. Press choose the “User Preset Setting”, and press . Step 4. Press choose “Intensity*”, “Red”, “Green”, “Blue”, “Amber”, “Lime”, “Cyan”, “Pan”, “Tilt”, “Zoom”, “Frost”, “Store (User Preset)”, “Clear”

Step 4. Press to accept and store the gobo offset setting or to cancel the gobo offset.

SELF-TESTS

RUNNING PARAMETER TESTS

The luminaire is capable of running self-tests by using the Test menu functions.

When running tests on multiple luminaires, a DMX termination connector is required at the last luminaire in the link. Refer to “Connecting Data and Power” on page 14 for more information regarding the construction of this connector.

NOTE: After 10 seconds of inactivity, the menu display will change to the default state showing the address.

APPENDIX A

CARE AND MAINTENANCE

WARNING: All maintenance procedures are to be performed with power removed from the luminaire. Never remove covers or back cap while LAMP is in operation.

EQUIPMENT HANDLING

Below are some basic tips and information on handling luminaires and their associated components.

LOCATIONS/USE

Vari-Lite luminaires are designed for dry locations only. Exposure to rain or moisture (including, but not limited to, fog machines, misters, etc..) may damage luminaire.

SOLID STATE ELECTRONICS

Electrostatic Discharge (ESD)

Electrostatic discharge (ESD) presents a significant danger to solid state electronic components (semiconductor devices and PC board assemblies). Static electricity can build on a variety of common objects (including people) simply by handling or moving. ESD rarely results in immediate failure of a component, but shows up later as an intermittent problem or severely reduces the life of the component. All Vari-Lite equipment uses solid state electronics and appropriate precautions to protect them should be observed when servicing.

Printed Circuit Boards (PCBs)

All PC boards should be shipped in electrostatic shielding bags. When handling PC boards or components, devices such as conductive mats and conductive wrist straps should be used whenever possible. If these precautionary devices are not available, handling of PC boards and components should be avoided.

CAUTION: Black foam (used to package solid state electronics) should never be used for packing batteries or put in contact with PC boards which contain batteries.

TROUBLESHOOTING

ERROR MESSAGES

If a problem occurs during luminaire calibration, at the end of the calibration sequence the Menu Display will cycle through any applicable error message(s) until the end of the list is reached. To review the error messages again, it will be necessary to access them using the Status function.

To access error messages:

- Step 1. Press
- Step 2. Press arrows until Fixture appears. Press
- Step 3. Press arrows to access Status. Press . (Display will now scroll through any error messages or display OK if no errors.)

TABLE 9. ERROR MESSAGES

DISPLAY	MESSAGE	TYPE
No Errors	No Errors Found	Recalibrate fail
Pan	Pan motor recalibrate fail	
Tilt	Pan motor recalibrate fail	
Zoom	Zoom motor recalibrate fail	
Frost	Frost motor recalibrate fail	

Visit the product page of our website at www.vari-lite.com for the latest technical specifications.

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 60598-1:2015 + A1:2018;
EN 60598-2-17:2018;
EN 60598-2-4:2018;
EN 62493:2015;
EN 62471:2008;
EN 62031: 2008 + A1: 2013 + A2: 2015;
EN 61347-2-11:2001;
EN 61347-1:2015 Low Voltage Directive 2014/35/EU

EMC

EN 55032:2015
EN 55103-2: 2009
EN 61000-3-2:2014
EN 61000-3-3:2013
EN 55015:2013+A1:2015
EN 61547:2009
EMC Directive 2014/30/EU

ROHS

EN 62321:2012
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 any questions regarding this product, please contact Customer Service at +1-214-647-7880 or via e-mail at entertainment.service@signify.

LIMITED 2-YEAR WARRANTY

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

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 use only. Do not use outdoors.
- 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.
- 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.
- 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 ambient temperature range of 0-40°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.
- Note distance requirement(s) from combustible materials or illuminated objects. Do not mount near gas or electric heaters.
- 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.
- 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.
- 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.
- This fixture is designed for dry locations only. Exposure to rain or moisture may damage fixture unless it is suitably IP rated.
- Do not look directly at the LED light beam while the fixture is on.
- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.

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



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