

## Channel Mapping - 16 Bit Enhanced (Default)

DMX Channel	Parameter	Range DMX	Defaults	Description
1 2	<b>Intensity</b> High Byte Low Byte	0-65535	0	16-bit control of Fixture Intensity from 0 - 100%
3 4	<b>Pan</b> High Byte Low Byte	0 - 65535	32767	16-bit linear control of pan from 0°-540°. With <i>Expanded Movement</i> turned on, 630° of pan is possible
5 6	<b>Tilt</b> High Byte Low Byte	0 - 65535	32767	16-bit linear control of tilt from 0°-270°.
7 8	<b>Edge</b> High Byte Low Byte	0 - 65535	32767	16-bit linear control of edge functions
9 10	<b>Zoom</b> High Byte Low Byte	0 - 65535	32767	16-bit linear control of fixture zoom range between 0 (narrow) to 65535 (wide).
11	<b>Programming Control</b>	0 - 255  0 - 2 3 - 5 6 - 10 11 - 15 16 - 20 51 - 55 56 - 60	0  → → → → → → →	Used as a control channel for different programmable settings. Set value of desired effect, wait >3 seconds, then set a discreet value to 0 (Idle).  Idle Linear Dimming Curve Square Law Dimming Curve TV Dimming Curve Architectural Dimming Curve Edge Track ON Edge Track OFF
12 13	<b>Cyan</b> High Byte Low Byte	0 - 65535	0	16 Bit control of cyan color mechanism.
14 15	<b>Yellow</b> High Byte Low Byte	0 - 65535	0	16 Bit control of yellow color mechanism.
16 17	<b>Magenta</b> High Byte Low Byte	0 - 65535	0	16 Bit control of Magenta color mechanism.
18 19	<b>CTO</b> High Byte Low Byte	0 - 65535	0	16 Bit control of CTO mechanism.
20	<b>Color Wheel 1</b>	0 - 255  0 - 17 18 - 43 44 - 83 84 - 118 119 - 155 156 - 192 193 - 228 229 - 255	0  → → → → → → → →	8-bit linear control of Color Wheel 1. See Channel 16 for options.  OPEN COLOR 1 - RED (Center at DMX 37) COLOR 2 - YELLOW (Center at DMX 73) COLOR 3 - KELLY GREEN (Center at DMX 109) COLOR 4 - MAGENTA (Center at DMX 145) COLOR 5 - AMBER (Center at DMX 181) COLOR 6 - CONGO BLUE (Center at DMX 217) OPEN END - NO COLOR

## Channel Mapping - 16 Bit Enhanced (Default)

DMX Channel	Parameter	Range DMX	Defaults	Description
21	<b>Color Wheel 1 Control</b>	0 - 255	0	Used as a control channel for different movement options of Color Wheel 1.
		0 - 5	→	Linear Movement using shortest (quickest) path.
		6 - 10	→	Linear Movement using normal (longest) path.
		11 - 15	→	Wheel Spin Forward (Fast to Slow)
		16 - 20	→	Wheel Spin STOP
		21 - 25	→	Wheel Spin Reverse (Slow to Fast)
		26 - 56	→	Color Shake Quickest Path (Slow to Fast)
		57 - 87	→	Color Shake Normal Path (Slow to Fast)
		88 - 255	→	Reserved Values
22	<b>Color Wheel 2</b>	0 - 255	0	8-bit linear control of Color Wheel 1. See Channel 16 for options.
		0 - 17	→	OPEN
		18 - 43	→	COLOR 1 - Orange (Center at DMX 37)
		44 - 83	→	COLOR 2 - Light Blue (Center at DMX 73)
		84 - 118	→	COLOR 3 - Minus Green (Center at DMX 109)
		119 - 155	→	COLOR 4 - Lavender (Center at DMX 145)
		156 - 192	→	COLOR 5 - Green (Center at DMX 181)
		193 - 228	→	COLOR 6 - Blue (Center at DMX 217)
229 - 255	→	OPEN END - NO COLOR		
23	<b>Color Wheel 2 Control</b>	0 - 255	0	Used as a control channel for different movement options of Color Wheel 1.
		0 - 5	→	Linear Movement using shortest (quickest) path.
		6 - 10	→	Linear Movement using normal (longest) path.
		11 - 15	→	Wheel Spin Forward (Fast to Slow)
		16 - 20	→	Wheel Spin STOP
		21 - 25	→	Wheel Spin Reverse (Slow to Fast)
		26 - 56	→	Color Shake Quickest Path (Slow to Fast)
		57 - 87	→	Color Shake Normal Path (Slow to Fast)
		88 - 255	→	Reserved Values

## Channel Mapping - 16 Bit Enhanced (Default)

DMX Channel	Parameter	Range DMX	Defaults	Description
24	Lenticular Lens	0 - 5 6 - 10 11 - 15 16 - 20 21 - 255	→ → → → →	Open Index Rotate Normal Rotate with Mega Stepping Reserved Values
<b>Beam Shaper Rotate / I</b>		0 - 65535	32767	16-bit control of prism rotation and index.
25	High Byte			
26	Low Byte	0 - 32756 32757 - 32780 32781 - 65535	→ → →	Rotate Fast to Slow <<< Rotation STOP Rotate Slow to Fast >>>
27	<b>Frame 1A</b>	0 - 65535	0	16 Bit Control of Framing Shutter 1A from Open (DMX 0) to Full (DMX 65535).
28	High Byte Low Byte			
29	<b>Frame 1B</b>	0 - 65535	0	Controls Framing Shutter 1B from Open (DMX 0) to Full (DMX 255).
30	High Byte Low Byte			
31	<b>Frame 2A</b>	0 - 65535	0	Controls Framing Shutter 2A from Open (DMX 0) to Full (DMX 255).
32	High Byte Low Byte			
33	<b>Frame 2B</b>	0 - 65535	0	Controls Framing Shutter 2B from Open (DMX 0) to Full (DMX 255).
34	High Byte Low Byte			
35	<b>Frame 3A</b>	0 - 65535	0	Controls Framing Shutter 3A from Open (DMX 0) to Full (DMX 255).
36	High Byte Low Byte			
37	<b>Frame 3B</b>	0 - 65535	0	Controls Framing Shutter 3B from Open (DMX 0) to Full (DMX 255).
38	High Byte Low Byte			
39	<b>Frame 4A</b>	0 - 65535	0	Controls Framing Shutter 4A from Open (DMX 0) to Full (DMX 255).
40	High Byte Low Byte			
41	<b>Frame 4B</b>	0 - 65535	0	Controls Framing Shutter 4B from Open (DMX 0) to Full (DMX 255).
42	High Byte Low Byte			
43	<b>Frame Rotate</b>	0 - 65535	32767	Controls Framing Shutter mechanism from +/- 90°
44	High Byte Low Byte			

## Channel Mapping - 16 Bit Enhanced (Default)

DMX Channel	Parameter	Range DMX	Defaults	Description
45	<b>Frost</b>	0 - 255	0	Insert control of frost mechanism with the following values.
		0 - 50	→	Open - No Frost or Diffusion
		51 - 100	→	Insert Light Diffusion
		101 - 150	→	Insert Heavy Frost
		151 - 200	→	Insert both Light Diffusion and Heavy Frost
46	<b>Strobe</b>	0 - 255	0	Controls Strobe functionality.
		0 - 3	→	Open
		4 - 6	→	Closed
		7 - 32	→	Normal Strobe - Slow to Fast
		33 - 58	→	Random Strobe - Slow to Fast
		59 - 84	→	Random Sync - Slow to Fast
		85 - 110	→	Pulse > - Slow to Fast
		111 - 136	→	Pulse > Random - Slow to Fast
		137 - 162	→	Pulse > Random Sync - Slow to Fast
		163 - 188	→	Pulse < - Slow to Fast
		189 - 214	→	Pulse < Random - Slow to Fast
		215 - 240	→	Pulse < Random Sync - Slow to Fast
47	<b>Focus Timing</b>	0 - 255	255	Adjustment of fixture timing to control Pan/Tilt mechanisms. - See Timing Channel Chart in User Manual
48	<b>Optics Timing</b>	0 - 255	255	Adjustment of fixture timing to control lensing mechanisms. - See Timing Channel Chart in User Manual
49	<b>Color Timing</b>	0 - 255	255	Adjustment of fixture timing to control color mechanisms. - See Timing Channel Chart in User Manual
50	<b>Beam Timing</b>	0 - 255	255	Adjustment of fixture timing to control beam shaping mechanisms. - See Timing Channel Chart in User Manual
51	<b>Frame Timing</b>	0 - 255	255	Adjustment of fixture timing to control gobo mechanisms. - See Timing Channel Chart in User Manual
52	<b>Luminaire Control</b>	0 - 255	0	Control Channel used for full fixture settings, lamp controls, and miscellaneous modes. Set discreet value of desired effect, wait >3 seconds, 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	→	Reserved Values
		16 - 20	→	Reserved Values
		21 - 25	→	Fixture Shutdown
		26 - 30	→	Display - Menu ON
		31 - 35	→	Display - Menu OFF
		36 - 40	→	ReCal Position
		41 - 45	→	ReCal Color
		46 - 50	→	Reserved Values
		51 - 55	→	ReCal Beam
		56 - 60	→	ReCal Optics
		61 - 65	→	Reserved Values
		66 - 70	→	Reset Fixture to Defaults - See Manual for a list of factory defaults.
		71 - 75	→	Full Luminaire Reboot. This command will reset all processors in fixture, then ReCal all parameters.
		76 - 80	→	Fixture Status On/Off. This command will enable the display to show fixture status for 5 min. After this time, displays will return to default configuration. Repeating this command in less than 5 minutes will behave as a toggle.)
		81 - 85	→	Standard Mode - Fixture operates at maximum output (Default)
		85 - 90	→	Studio Mode - Reduced output with lower fan settings
91 - 95	→	Studio Mode 2 - Reduced output with lower fan settings		
96 - 100	→	Whisper Mode - Reduced output with lower fan settings		

**Channel Mapping - 16 Bit Enhanced (Default)**

	101 - 255	→	Reserved Values
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## VLGS - Wash Channel Mapping - 16 Bit

DMX Channel	Parameter	Range DMX	Defaults	Description
1 2	<b>Intensity</b> High Byte Low Byte	0-65535	0	16-bit control of Fixture Intensity from 0 - 100%
3 4	<b>Pan</b> High Byte Low Byte	0 - 65535	32767	16-bit linear control of pan from 0°-540°. With <i>Expanded Movement</i> turned on, 630° of pan is possible
5 6	<b>Tilt</b> High Byte Low Byte	0 - 65535	32767	16-bit linear control of tilt from 0°-270°.
7 8	<b>Edge</b> High Byte Low Byte	0 - 65535	32767	16-bit linear control of edge functions
9 10	<b>Zoom</b> High Byte Low Byte	0 - 65535	32767	16-bit linear control of fixture zoom range between 0 (narrow) to 65535 (wide).
11	<b>Programming Control</b>	0 - 255  0 - 2 3 - 5 6 - 10 11 - 15 16 - 20 51 - 55 56 - 60	0  → → → → → → →	Used as a control channel for different programmable settings. Set value of desired effect, wait >3 seconds, then set a discreet value to 0 (Idle).  Idle Linear Dimming Curve Square Law Dimming Curve TV Dimming Curve Architectural Dimming Curve Edge Track ON Edge Track OFF
12 13	<b>Cyan</b> High Byte Low Byte	0 - 65535	0	16 Bit control of cyan color mechanism.
14 15	<b>Yellow</b> High Byte Low Byte	0 - 65535	0	16 Bit control of yellow color mechanism.
16 17	<b>Magenta</b> High Byte Low Byte	0 - 65535	0	16 Bit control of Magenta color mechanism.
18 19	<b>CTO</b> High Byte Low Byte	0 - 65535	0	16 Bit control of CTO mechanism.
20	<b>Color Wheel 1</b>	0 - 255  0 - 17 18 - 43 44 - 83 84 - 118 119 - 155 156 - 192 193 - 228 229 - 255	0  → → → → → → → →	8-bit linear control of Color Wheel 1. See Channel 16 for options.  OPEN COLOR 1 - RED (Center at DMX 37) COLOR 2 - YELLOW (Center at DMX 73) COLOR 3 - KELLY GREEN (Center at DMX 109) COLOR 4 - MAGENTA (Center at DMX 145) COLOR 5 - AMBER (Center at DMX 181) COLOR 6 - CONGO BLUE (Center at DMX 217) OPEN END - NO COLOR

## VLGS - Wash Channel Mapping - 16 Bit

DMX Channel	Parameter	Range DMX	Defaults	Description
21	<b>Color Wheel 1 Control</b>	0 - 255  0 - 5 6 - 10 11 - 15 16 - 20 21 - 25 26 - 56 57 - 87 88 - 255	0  → → → → → → → →	Used as a control channel for different movement options of Color Wheel 1.  Linear Movement using shortest (quickest) path. Linear Movement using normal (longest) path. Wheel Spin Forward (Fast to Slow) Wheel Spin STOP Wheel Spin Reverse (Slow to Fast) Color Shake Quickest Path (Slow to Fast) Color Shake Normal Path (Slow to Fast) Reserved Values
22	<b>Color Wheel 2</b>	0 - 255  0 - 17 18 - 43 44 - 83 84 - 118 119 - 155 156 - 192 193 - 228 229 - 255	0  → → → → → → → →	8-bit linear control of Color Wheel 1. See Channel 16 for options.  OPEN COLOR 1 - Orange (Center at DMX 37) COLOR 2 - Light Blue (Center at DMX 73) COLOR 3 - Minus Green (Center at DMX 109) COLOR 4 - Lavender (Center at DMX 145) COLOR 5 - Green (Center at DMX 181) COLOR 6 - Blue (Center at DMX 217) OPEN END - NO COLOR
23	<b>Color Wheel 2 Control</b>	0 - 255  0 - 5 6 - 10 11 - 15 16 - 20 21 - 25 26 - 56 57 - 87 88 - 255	0  → → → → → → → →	Used as a control channel for different movement options of Color Wheel 1.  Linear Movement using shortest (quickest) path. Linear Movement using normal (longest) path. Wheel Spin Forward (Fast to Slow) Wheel Spin STOP Wheel Spin Reverse (Slow to Fast) Color Shake Quickest Path (Slow to Fast) Color Shake Normal Path (Slow to Fast) Reserved Values

## VLGS - Wash Channel Mapping - 16 Bit

DMX Channel	Parameter	Range DMX	Defaults	Description
24	Lenticular Lens	0 - 5 6 - 10 11 - 15 16 - 20 21 - 255	→ → → → →	Open Index Rotate Normal Rotate with Mega Stepping Reserved Values
<b>Beam Shaper Rotate / Index</b>		0 - 65535	32767	16-bit control of prism rotation and index.
25	High Byte	0 - 32756 32757 - 32780 32781 - 65535	→	Rotate Fast to Slow <<<
26	Low Byte		→	Rotation STOP
			→	Rotate Slow to Fast >>>
27	<b>Frame 1A</b>	0 - 65535	0	16 Bit Control of Framing Shutter 1A from Open (DMX 0) to Full (DMX 65535).
28	High Byte Low Byte			
29	<b>Frame 1B</b>	0 - 65535	0	Controls Framing Shutter 1B from Open (DMX 0) to Full (DMX 255).
30	High Byte Low Byte			
31	<b>Frame 2A</b>	0 - 65535	0	Controls Framing Shutter 2A from Open (DMX 0) to Full (DMX 255).
32	High Byte Low Byte			
33	<b>Frame 2B</b>	0 - 65535	0	Controls Framing Shutter 2B from Open (DMX 0) to Full (DMX 255).
34	High Byte Low Byte			
35	<b>Frame 3A</b>	0 - 65535	0	Controls Framing Shutter 3A from Open (DMX 0) to Full (DMX 255).
36	High Byte Low Byte			
37	<b>Frame 3B</b>	0 - 65535	0	Controls Framing Shutter 3B from Open (DMX 0) to Full (DMX 255).
38	High Byte Low Byte			
39	<b>Frame 4A</b>	0 - 65535	0	Controls Framing Shutter 4A from Open (DMX 0) to Full (DMX 255).
40	High Byte Low Byte			
41	<b>Frame 4B</b>	0 - 65535	0	Controls Framing Shutter 4B from Open (DMX 0) to Full (DMX 255).
42	High Byte Low Byte			
43	<b>Frame Rotate</b>	0 - 65535	32767	Controls Framing Shutter mechanism from +/- 90°
44	High Byte Low Byte			



## VLGS - Wash Channel Mapping - 16 Bit

DMX Channel	Parameter	Range DMX	Defaults	Description		
45	<b>Frost</b>	0 - 255	0	Insert control of frost mechanism with the following values.		
		0 - 50	→	Open - No Frost or Diffusion		
		51 - 100	→	Insert Light Diffusion		
		101 - 150	→	Insert Heavy Frost		
		151 - 200	→	Insert both Light Diffusion and Heavy Frost		
46	<b>Strobe</b>	0 - 255	0	Controls Strobe functionality.		
		0 - 3	→	Open		
		4 - 6	→	Closed		
		7 - 32	→	Normal Strobe - Slow to Fast		
		33 - 58	→	Random Strobe - Slow to Fast		
		59 - 84	→	Random Sync - Slow to Fast		
		85 - 110	→	Pulse > - Slow to Fast		
		111 - 136	→	Pulse > Random - Slow to Fast		
		137 - 162	→	Pulse > Random Sync - Slow to Fast		
		163 - 188	→	Pulse < - Slow to Fast		
		189 - 214	→	Pulse < Random - Slow to Fast		
		215 - 240	→	Pulse < Random Sync - Slow to Fast		
		47	<b>Luminaire Control</b>	0 - 255	0	Control Channel used for full fixture settings, lamp controls, and miscellaneous modes. Set discreet value of desired effect, wait >3 seconds, 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	→			Reserved Values		
16 - 20	→			Reserved Values		
21 - 25	→			Fixture Shutdown		
26 - 30	→			Display - Menu ON		
31 - 35	→			Display - Menu OFF		
36 - 40	→			ReCal Position		
41 - 45	→			ReCal Color		
46 - 50	→			Reserved Values		
51 - 55	→			ReCal Beam		
56 - 60	→			ReCal Optics		
61 - 65	→			Reserved Values		
66 - 70	→			Reset Fixture to Defaults - See Manual for a list of factory defaults.		
71 - 75	→			Full Luminaire Reboot. This command will reset all processors in fixture, then ReCal all parameters.		
76 - 80	→			Fixture Status On/Off. This command will enable the display to show fixture status for 5 min. After this time, displays will return to default configuration. Repeating this command in less than 5 minutes will behave as a toggle.)		
81 - 85	→			Standard Mode - Fixture operates at maximum output (Default)		
85 - 90	→			Studio Mode - Reduced output with lower fan settings		
91 - 95	→			Studio Mode 2 - Reduced output with lower fan settings		
96 - 100	→	Whisper Mode - Reduced output with loower fan settings				
101 - 255	→	Reserved Values				

## VLZ - Wash Timing Channels

DMX Value	% Values	Time
0		Full Speed
1		0.2
2		0.4
3	1	0.6
4		0.8
5	2	1
6		1.2
7		1.4
8	3	1.6
9		1.8
10	4	2
11		2.2
12		2.4
13	5	2.6
14		2.8
15	6	3
16		3.2
17		3.4
18	7	3.6
19		3.8
20	8	4
21		4.2
22		4.4
23	9	4.6
24		4.8
25	10	5
26		5.2
27		5.4
28	11	5.6
29		5.8
30		6
31	12	6.2
32		6.4
33	13	6.6
34		6.8
35		7
36	14	7.2
37		7.4
38	15	7.6
39		7.8
40		8
41	16	8.2
42		8.4
43	17	8.6
44		8.8
45		9
46	18	9.2

## VLZ - Wash Timing Channels

DMX Value	% Values	Time
47		9.4
48	19	9.6
49		9.8
50		10
51	20	10.2
52		10.4
53		10.6
54	21	11
55		11
56	22	12
57		12
58		13
59	23	13
60		14
61	24	14
62		14
63		15
64	25	15
65		16
66	26	16
67		16
68		17
69	27	17
70		18
71	28	18
72		18
73		19
74	29	19
75		20
76	30	20
77		20
78		21
79	31	21
80		21
81		22
82	32	22
83		23
84	33	23
85		23
86		24
87	34	24
88		25
89	35	25
90		25
91		26
92	36	26
93		27

## VLZ - Wash Timing Channels

DMX Value	% Values	Time
94	37	27
95		27
96		28
97	38	28
98		29
99	39	29
100		29
101		30
102	40	30
103		30
104		31
105	41	31
106		32
107	42	32
108		32
109		33
110	43	33
111		34
112	44	34
113		34
114		35
115	45	35
116		36
117	46	36
118		36
119		37
120	47	37
121		38
122	48	38
123		38
124		39
125	49	39
126		39
127		40
128	50	40
129		41
130	51	41
131		41
132		42
133	52	42
134		43
135	53	43
136		43
137		44
138	54	44
139		45
140	55	45

## VLZ - Wash Timing Channels

DMX Value	% Values	Time
141		45
142		46
143	56	46
144		47
145	57	47
146		47
147		48
148	58	48
149		49
150	59	49
151		49
152		50
153	60	50
154		50
155		51
156	61	51
157		52
158	62	52
159		52
160		53
161	63	53
162		54
163	64	54
164		54
165		55
166	65	55
167		56
168	66	56
169		56
170		57
171	67	57
172		58
173	68	58
174		58
175		59
176	69	59
177		59
178		60
179	70	60
180		65
181	71	65
182		65
183		70
184	72	70
185		75
186	73	75
187		75

## VLZ - Wash Timing Channels

DMX Value	% Values	Time
188		80
189	74	80
190		85
191	75	85
192		85
193		90
194	76	90
195		95
196	77	95
197		95
198		100
199	78	100
200		110
201	79	110
202		110
203		120
204	80	120
205		120
206	81	130
207		130
208		140
209	82	140
210		140
211		150
212	83	150
213		160
214	84	160
215		160
216		170
217	85	170
218		180
219	86	180
220		180
221		190
222	87	190
223		200
224	88	200
225		200
226		210
227	89	210
228		210
229		220
230	90	220
231		230
232	91	230
233		230
234		240