

**VL800 BeamLine 16bit 1 Group (G1)  
(Default Mode)  
Channel Map**

DMX	Parameter	Range DMX	Range %	Defaults*	Description
1	Pan - High	0 - 65535	0 - 100%	32767 (50%)	16bit Pan Movement (Pan control @ 0 - 50 - Normal Movement)
2	Pan - Low				Spin or Mega Stepping Mode (Pan Control Channel) Rotate Fast to Slow <<< = DMX 0 - 32756 Rotate STOP = DMX 32757 - 32780 Rotate Slow to Fast >>> = DMX 32781 - 65535
3	Tilt - High	0 - 65535	0 - 100%	32767 (50%)	16bit Tilt Movement (Tilt control @ 0 - 50 - Normal Movement)
4	Tilt - Low				Spin or Mega Stepping Mode (Tilt Control Channel) Rotate Fast to Slow <<< = DMX 0 - 32756 Rotate STOP = DMX 32757 - 32780 Rotate Slow to Fast >>> = DMX 32781 - 65535
5	Pan Control	0 - 255	0 - 100%	25	0 - 50 Pan control (Normal Movement) 51 - 70 Spin on (Speed and direction controlled from Pan Channel) 71 - 120 Mega Stepping on (Speed and direction controlled from Pan Channel) 121 - 180 Twist Slow to Fast >>>>>> (Pan location control reverts to normal movement) 181 - 255 reserved
6	Tilt Control	0 - 255	0 - 100%	25	0 - 50 Tilt control (Normal Movement) 51 - 70 Spin on (Speed and direction controlled from Tilt Channel) 71 - 120 Mega Stepping (Speed and direction controlled from Tilt Channel) 121 - 180 Twist Slow to Fast >>>>>> (Tilt location control reverts to normal movement) 181 - 255 reserved
7	Master Intensity - High	0 - 65535	0 - 100%	0	16 bit control for Intensity
8	Master Intensity - Low				
9	Color Pre-sets	0 - 255	0 - 100%	0	Channel OFF (disabled) DMX 0 - 68 CF_0_Color OFF DMX 69 - 70 CF_1_White 10000K DMX 71 - 72 CF_2_White 8000K DMX 73 - 74 CF_3_White 6500K DMX 75 - 76 CF_4_White 5600K DMX 77 - 78 CF_5_White 5000K DMX 79 - 80 CF_6_White 4500K DMX 81 - 82 CF_7_White 4000K DMX 83 - 84 CF_8_White 3200K DMX 85 - 86 CF_9_White 3000K DMX 87 - 88 CF_10_White 2700K DMX 89 - 90 CF_11_Moroccan Pink DMX 91 - 92 CF_12_Pink DMX 93 - 94 CF_13_Flesh Pink DMX 95 - 96 CF_14_Bright Rose DMX 97 - 98 CF_15_Follies Pink DMX 99 - 100 CF_16_Fuchsia Pink DMX 101 - 102 CF_17_Surprise Pink DMX 103 - 104 CF_18_Congo Blue DMX 105 - 106 CF_19_Blue DMX 107 - 108 CF_20_Virgin Blue DMX 109 - 110 CF_21_Midnight Maya DMX 111 - 112 CF_22_Dluble C.T Blue DMX 113 - 114 CF_23_Slate Blue DMX 115 - 116 CF_24_Regal Blue DMX 117 - 118 CF_25_Fullt C.T Blue DMX 119 - 120 CF_26_Steel Blue DMX 121 - 122 CF_27_Lighter Blue DMX 123 - 124 CF_28_Cyan DMX 125 - 126 CF_29_Marine Blue DMX 127 - 128 CF_30_Soft Green DMX 129 - 130 CF_31_Moss Green DMX 131 - 132 CF_32_Green DMX 133 - 134 CF_33_Fem Green DMX 135 - 136 CF_34_JAS Green DMX 137 - 138 CF_35_Pale Green DMX 139 - 140 CF_36_Spring Yellow DMX 141 - 142 CF_37_Yellow DMX 143 - 144 CF_38_Deep Amber DMX 145 - 146 CF_39_Chrome Orange DMX 147 - 148 CF_40_Orange DMX 149 - 150 CF_41_Magenta DMX 151 - 152 CF_42_Flame Red DMX 153 - 154 CF_43_Purple DMX 155 - 156 Rotate CW Fast → Slow DMX 157 - 171 Rotate ACW Slow → Fast DMX 172 - 186 Random Color Fast → Slow DMX 187 - 201 Chase1 DMX 202 - 204 Chase2 DMX 205 - 207 Chase3 DMX 208 - 210 Chase4 DMX 211 - 213 Chase5 DMX 214 - 216 Chase6 DMX 217 - 219 Chase7 DMX 220 - 222 Chase8 DMX 223 - 225 Chase9 DMX 226 - 228 Chase10 DMX 229 - 231 Channel off DMX 232 - 255

**VL800 BeamLine 16bit 1 Group (G1)  
(Default Mode)  
Channel Map**

DMX	Parameter	Range DMX	Range %	Defaults*	Description
10	Strobe Rate	0 - 255	0 - 100%	0	Pulse + Slow Rand = DMX 128 - 129 Pulse + Med Rand = DMX 130 - 131 Pulse + Fast Rand = DMX 132 - 133 Pulse + Range = DMX 134 - 191 Pulse - Slow Rand = DMX 192 - 193 Pulse - Med Rand = DMX 194 - 195 Pulse - Fast Rand = DMX 196 - 197 Pulse - Range = DMX 198 - 255
11	Strobe Duration	0 - 255	0 - 100%	0	Strobe's duration, Range is 0-85 0 = DMX 0 1 = DMX 1 - 3 x = (DMX Value-1)/3+1 85 = DMX 253-255
12	Intensity Timing	0 - 255	0 - 100%	255	Allows for timing control of intensity. Channel should default to 255 for smoothest actions using console and/or manual fades. - See Timing Chart for more details.
13	Color Timing	0 - 255	0 - 100%	255	Allows for timing control of colors. Channel should default to 255 for smoothest actions using console and/or manual fades. - See Timing Chart for more details.
14	Pan and Tilt (Focus) Timing	0 - 255	0 - 100%	255	Allows for timing control of zoom.
15	Control	0 - 255	0 - 100%	0	Please refer to the control channel detail define.
16	Red - High Byte - *	0 - 65535	0 - 100%	0	16bit control of Red LEDs from 0 to full.
17	Red - Low Byte - *				
18	Green - High Byte - *	0 - 65535	0 - 100%	0	16bit control of Green LEDs from 0 to full.
19	Green - Low Byte -*				
20	Blue- High Byte -*	0 - 65535	0 - 100%	0	16bit control of Blue LEDs from 0 to full.
21	Blue - Low Byte -*				
22	White - High Byte -*	0 - 65535	0 - 100%	0	16bit control of White LEDs from 0 to full.
23	White- Low Byte -*				

**\*\* Adding additional color group expands Dmx map from this point in blocks of RGBW**

DMX	Parameter	Range DMX	Range %	Defaults*	Description
1 2	Pan - High Pan - Low	0 - 65535	0 - 100%	32767 (50%)	16bit Pan Movement (Pan control @ 0 - 50 - Normal Movement) Spin or Mega Stepping Mode (Pan Control Channel) Rotate Fast to Slow <<< = DMX 0 - 32756 Rotate STOP = DMX 32757 - 32780 Rotate Slow to Fast >>> = DMX 32781 - 65535
3 4	Tilt - High Tilt - Low	0 - 65535	0 - 100%	32767 (50%)	16bit Tilt Movement (Tilt control @ 0 - 50 - Normal Movement) Spin or Mega Stepping Mode (Tilt Control Channel) Rotate Fast to Slow <<< = DMX 0 - 32756 Rotate STOP = DMX 32757 - 32780 Rotate Slow to Fast >>> = DMX 32781 - 65535
5	Pan Control	0 - 255	0 - 100%	25	0 - 50 Pan control (Normal Movement) 51 - 70 Spin on (Speed and direction controlled from Pan Channel) 71 - 120 Mega Stepping on (Speed and direction controlled from Pan Channel) 121 - 180 Twist Slow to Fast >>>>> (Pan location control reverts to normal movement) 181 - 255 reserved
6	Tilt Control	0 - 255	0 - 100%	25	0 - 50 Tilt control (Normal Movement) 51 - 70 Spin on (Speed and direction controlled from Tilt Channel) 71 - 120 Mega Stepping (Speed and direction controlled from Tilt Channel) 121 - 180 Twist Slow to Fast >>>>> (Tilt location control reverts to normal movement) 181 - 255 reserved
7	Master Intensity - High	0 - 65535	0 - 100%	0	8 bit control for Intensity
8	Color Pre-sets	0 - 255	0 - 100%	0	Channel OFF (disabled) DMX 0 - 68 CF_0_Color OFF DMX 69 - 70 CF_1_White 10000K DMX 71 - 72 CF_2_White 8000K DMX 73 - 74 CF_3_White 6500K DMX 75 - 76 CF_4_White 5600K DMX 77 - 78 CF_5_White 5000K DMX 79 - 80 CF_6_White 4500K DMX 81 - 82 CF_7_White 4000K DMX 83 - 84 CF_8_White 3200K DMX 85 - 86 CF_9_White 3000K DMX 87 - 88 CF_10_White 2700K DMX 89 - 90 CF_11_Moroccan Pink DMX 91 - 92 CF_12_Pink DMX 93 - 94 CF_13_Flesh Pink DMX 95 - 96 CF_14_Bright Rose DMX 97 - 98 CF_15_Follies Pink DMX 99 - 100 CF_16_Fuchsia Pink DMX 101 - 102 CF_17_Surprise Pink DMX 103 - 104 CF_18_Congo Blue DMX 105 - 106 CF_19_Blue DMX 107 - 108 CF_20_Virgin Blue DMX 109 - 110 CF_21_Midnight Maya DMX 111 - 112 CF_22_Diuble C.T Blue DMX 113 - 114 CF_23_Slate Blue DMX 115 - 116 CF_24_Regal Blue DMX 117 - 118 CF_25_Fullt C.T Blue DMX 119 - 120 CF_26_Steel Blue DMX 121 - 122 CF_27_Lighter Blue DMX 123 - 124 CF_28_Cyan DMX 125 - 126 CF_29_Marine Blue DMX 127 - 128 CF_30_Soft Green DMX 129 - 130 CF_31_Moss Green DMX 131 - 132 CF_32_Green DMX 133 - 134 CF_33_Fem Green DMX 135 - 136 CF_34_JAS Green DMX 137 - 138 CF_35_Pale Green DMX 139 - 140 CF_36_Spring Yellow DMX 141 - 142 CF_37_Yellow DMX 143 - 144 CF_38_Deep Amber DMX 145 - 146 CF_39_Chrome Orange DMX 147 - 148 CF_40_Orange DMX 149 - 150 CF_41_Magenta DMX 151 - 152 CF_42_Flame Red DMX 153 - 154 CF_43_Purple DMX 155 - 156 Rotate CW Fast → Slow DMX 157 - 171 Rotate ACW Slow → Fast DMX 172 - 186 Random Color Fast → Slow DMX 187 - 201 Chase1 DMX 202 - 204 Chase2 DMX 205 - 207 Chase3 DMX 208 - 210 Chase4 DMX 211 - 213 Chase5 DMX 214 - 216 Chase6 DMX 217 - 219 Chase7 DMX 220 - 222 Chase8 DMX 223 - 225 Chase9 DMX 226 - 228 Chase10 DMX 229 - 255

DMX	Parameter	Range DMX	Range %	Defaults*	Description
9	Strobe Rate	0 - 255	0 - 100%	0	Pulse + Slow Rand = DMX 128 - 129 Pulse + Med Rand = DMX 130 - 131 Pulse + Fast Rand = DMX 132 - 133 Pulse + Range = DMX 134 - 191 Pulse - Slow Rand = DMX 192 - 193 Pulse - Med Rand = DMX 194 - 195 Pulse - Fast Rand = DMX 196 - 197 Pulse - Range = DMX 198 - 255
10	Strobe Duration	0 - 255	0 - 100%	0	Strobe's duration, Range is 0-85 0 = DMX 0 1 = DMX 1 - 3 x = (DMX Value-1)/3+1 85 = DMX 253-255
11	Intensity Timing	0 - 255	0 - 100%	255	Allows for timing control of intensity. Channel should default to 255 for smoothest actions using console and/or manual fades. - See Timing Chart for more details.
12	Color Timing	0 - 255	0 - 100%	255	Allows for timing control of colors. Channel should default to 255 for smoothest actions using console default to 255 for smoothest actions using console and/or manual fades. - See Timing Chart for more details.
13	Pan and Tilt (Focus) Timin	0 - 255	0 - 100%	255	Allows for timing control of zoom.
14	Control	0 - 255	0 - 100%	0	Please refer to the control channel detail define.
15	Red - *	0 - 65535	0 - 100%	0	8 bit control of Red LEDs from 0 to full.
16	Green - *	0 - 65535	0 - 100%	0	8 bit control of Green LEDs from 0 to full.
17	Blue - *	0 - 65535	0 - 100%	0	8 bit control of Blue LEDs from 0 to full.
18	White - *	0 - 65535	0 - 100%	0	8 bit control of White LEDs from 0 to full.

\*\* Adding additional color group expands Dmx map from this point in blocks of RGBW

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## VL800 BeamLine Control Channel detail

DMX	Parameter	Range DMX	Range %	Defaults*	Description
x	Control	0 - 255	0 - 100%	0	<p>functions of the SL Series products. Set control channel value to desired action, Hold value for at least 5 seconds ,then turn to 0. Set control channel value to 0 without any scaling.</p> <p>Default Setting on Console = DMX 0-4                      DIM Response _Normal = DMX 5 - 9                      DIM Response_Incandescent = DMX 10 - 14                      Dimming Curve_linear = DMX 30 - 34                      Dimming Curve_Square = DMX 35- 39                      Dimming Curve_S-Curve = DMX 40 - 44                      Dimming Curve_PL-Curve = DMX 45 - 49                      Calibration_OFF = DMX 70 - 74                      Calibration_ON = DMX 75 - 79                      Fan_Auto = DMX 80 - 84                      Fan_Off = DMX 85 - 89                      Fixture Recalibration = DMX 90 - 94</p> <p>Reserves( Future use) = DMX 95 - 250</p>

DMX Value	Percent (%)	Time (Seconds)
0	0	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

DMX Value	Percent (%)	Time (Seconds)
45		9
46	18	9.2
47		9.4
48	19	9.6
49		9.8
50		10
51	20	10.2
52		10.4
53		10.6
54	21	10.8
55		11
56	22	11.2
57		11.4
58		11.6
59	23	11.8
60		12
61	24	12.2
62		12.4
63		12.6
64	25	12.8
65		13
66	26	13.2
67		13.4
68		13.6
69	27	13.8
70		14
71	28	14.2
72		14.4
73		14.6
74	29	14.8
75		15
76	30	15.2
77		15.4
78		15.6
79	31	15.8
80		16
81		16.2
82	32	16.4
83		16.6
84	33	16.8
85		17
86		17.2
87	34	17.4
88		17.6
89	35	17.8



DMX Value	Percent (%)	Time (Seconds)
90		18
91		18.2
92	36	18.4
93		18.6
94	37	18.8
95		19
96		19.2
97	38	19.4
98		19.6
99	39	19.8
100		20
101		21
102	40	22
103		23
104		24
105	41	25
106		26
107	42	27
108		28
109		29
110	43	30
111		31
112	44	32
113		33
114		34
115	45	35
116		36
117	46	37
118		38
119		39
120	47	40
121		41
122	48	42
123		43
124		44
125	49	45
126		46
127		47
128	50	48
129		49
130	51	50
131		51
132		52
133	52	53
134		54

<b>DMX Value</b>	<b>Percent (%)</b>	<b>Time (Seconds)</b>
135	53	55
136		56
137		57
138	54	58
139		59
140	55	60
141		61
142		62
143	56	63
144		64
145	57	65
146		66
147		67
148	58	68
149		69
150	59	70
151		71
152		72
153	60	73
154		74
155		75
156	61	76
157		77
158	62	78
159		79
160		80
161	63	81
162		82
163	64	83
164		84
165		85
166	65	86
167		87
168	66	88
169		89
170		90
171	67	91
172		92
173	68	93
174		94
175		95
176	69	96
177		97
178		98
179	70	99

DMX Value	Percent (%)	Time (Seconds)
180		100
181	71	101
182		102
183		103
184	72	104
185		105
186	73	106
187		107
188		108
189	74	109
190		110
191	75	111
192		112
193		113
194	76	114
195		115
196	77	116
197		117
198		118
199	78	119
200		120
201	79	121
202		122
203		123
204	80	124
205		125
206	81	126
207		127
208		128
209	82	129
210		130
211		131
212	83	132
213		133
214	84	134
215		135
216		136
217	85	137
218		138
219	86	139
220		140
221		141
222	87	142
223		143
224	88	144

DMX Value	Percent (%)	Time (Seconds)
225		145
226		146
227	89	147
228		148
229		149
230	90	150
231		151
232	91	152
233		153
234		154
235	92	155
236		156
237	93	157
238		158
239		159
240	94	160
241		161
242	95	162
243		163
244		164
245	96	165
246		5 Min
247	97	15 Min
248		30 Min
249		60 Min
250*	98	60ms
251*		80ms
252*	99	100ms
253*		120ms
254*		140ms
255*	100	160ms

\* These values will provide smoothing when using console fade times.  
DMX value of 255 (recommended default) will give most smoothing.

<b>RGBW 16bIT MODE</b>			
<b>DMX CHANNEL</b>	<b>(G1) 1 Group Mode (Default Mode)</b>	<b>(G3) 3 Group Mode</b>	<b>(G12) 12 Group Mode</b>
1	Pan High	Pan High	Pan High
2	Pan Low	Pan Low	Pan Low
3	Tilt High	Tilt High	Tilt High
4	Tilt Low	Tilt Low	Tilt Low
5	Pan Control	Pan Control	Pan Control
6	Tilt Control	Tilt Control	Tilt Control
7	Intensity High	Intensity High	Intensity High
8	Intensity Low	Intensity Low	Intensity Low
9	Color Pre-set	Color Pre-set	Color Pre-set
10	Strobe Rate	Strobe Rate	Strobe Rate
11	Strobe Duration	Strobe Duration	Strobe Duration
12	Intensity Timing	Intensity Timing	Intensity Timing
13	Color Timing	Color Timing	Color Timing
14	Focus Timing (Pan and Tilt)	Focus Timing (Pan and Tilt)	Focus Timing (Pan and Tilt)
15	Control	Control	Control
16	Red - High	Red - High - Group 1	Red - High - 1
17	Red - Low	Red - Low - Group 1	Red - Low - 1
18	Green - High	Green - High - Group 1	Green - High - 1
19	Green - Low	Green - Low - Group 1	Green - Low - 1
20	Blue - High	Blue - High - Group 1	Blue - High - 1
21	Blue - Low	Blue - Low - Group 1	Blue - Low - 1
22	White - High	White - High - Group 1	White - High - 1
23	White - Low	White - Low - Group 1	White - Low - 1
24		Red - High - Group 2	Red - High - 2
25		Red - Low - Group 2	Red - Low - 2
26		Green - High - Group 2	Green - High - 2
27		Green - Low - Group 2	Green - Low - 2
28		Blue - High - Group 2	Blue - High - 2
29		Blue - Low - Group 2	Blue - Low - 2
30		White - High - Group 2	White - High - 2
31		White - Low - Group 2	White - Low - 2
32		Red - High - Group 3	Red - High - 3
33		Red - Low - Group 3	Red - Low - 3
34		Green - High - Group 3	Green - High - 3
35		Green - Low - Group 3	Green - Low - 3
36		Blue - High - Group 3	Blue - High - 3
37		Blue - Low - Group 3	Blue - Low - 3
38		White - High - Group 3	White - High - 3
39		White - Low - Group 3	White - Low - 3
40			Red - High - 4
41			Red - Low - 4
42			Green - High - 4
43			Green - Low - 4
44			Blue - High - 4
45			Blue - Low - 4
46			White - High - 4
47			White - Low - 4
48			Red - High - 5
49			Red - Low - 5
50			Green - High - 5
51			Green - Low - 5
52			Blue - High - 5
53			Blue - Low - 5
54			White - High - 5
55			White - Low - 5
56			Red - High - 6
57			Red - Low - 6
58			Green - High - 6
59			Green - Low - 6
60			Blue - High - 6
61			Blue - Low - 6
62			White - High - 6
63			White - Low - 6
64			Red - High - 7
65			Red - Low - 7
66			Green - High - 7
67			Green - Low - 7
68			Blue - High - 7
69			Blue - Low - 7
70			White - High - 7
71			White - Low - 7
72			Red - High - 8
73			Red - Low - 8
74			Green - High - 8
75			Green - Low - 8
76			Blue - High - 8
77			Blue - Low - 8
78			White - High - 8
79			White - Low - 8
80			Red - High - 9
81			Red - Low - 9
82			Green - High - 9
83			Green - Low - 9
84			Blue - High - 9
85			Blue - Low - 9
86			White - High - 9
87			White - Low - 9
88			Red - High - 10
89			Red - Low - 10
90			Green - High - 10
91			Green - Low - 10
92			Blue - High - 10
93			Blue - Low - 10
94			White - High - 10
95			White - Low - 10
96			Red - High - 11
97			Red - Low - 11
98			Green - High - 11
99			Green - Low - 11
100			Blue - High - 11
101			Blue - Low - 11
102			White - High - 11
103			White - Low - 11
104			Red - High - 12
105			Red - Low - 12
106			Green - High - 12
107			Green - Low - 12
108			Blue - High - 12
109			Blue - Low - 12
110			White - High - 12
111			White - High - 13

<b>RGBW 8bIT MODE</b>			
<b>DMX CHANNEL</b>	<b>(G1) 1 Group Mode</b>	<b>(G3) 3 Group Mode</b>	<b>(G12) 12 Group Mode</b>
1	Pan High	Pan High	Pan High
2	Pan Low	Pan Low	Pan Low
3	Tilt High	Tilt High	Tilt High
4	Tilt Low	Tilt Low	Tilt Low
5	Pan Control	Pan Control	Pan Control
6	Tilt Control	Tilt Control	Tilt Control
7	Intensity	Intensity	Intensity
8	Color Pre-set	Color Pre-set	Color Pre-set
9	Strobe Rate	Strobe Rate	Strobe Rate
10	Strobe Duration	Strobe Duration	Strobe Duration
11	Intensity Timing	Intensity Timing	Intensity Timing
12	Color Timing	Color Timing	Color Timing
13	Focus Timing (Pan and Tilt)	Focus Timing (Pan and Tilt)	Focus Timing (Pan and Tilt)
14	Control	Control	Control
15	Red -	Red - Group 1	Red - 1
16	Green -	Green - Group 1	Green - 1
17	Blue-	Blue - Group 1	Blue - 1
18	White -	White - Group 1	White - 1
19		Red - Group 2	Red - 2
20		Green - Group 2	Green - 2
21		Blue - Group 2	Blue - 2
22		White - Group 2	White - 2
23		Red - Group 3	Red - 3
24		Green - Group 3	Green - 3
25		Blue - Group 3	Blue - 3
26		White - Group 3	White - 3
27			Red - 4
28			Green - 4
29			Blue - 4
30			White - 4
31			Red - 5
32			Green - 5
33			Blue - 5
34			White - 5
35			Red - 6
36			Green - 6
37			Blue - 6
38			White - 6
39			Red - 7
40			Green - 7
41			Blue - 7
42			White - 7
43			Red - 8
44			Green - 8
45			Blue - 8
46			White - 8
47			Red - 9
48			Green - 9
49			Blue - 9
50			White - 9
51			Red- 10
52			Green - 10
53			Blue - 10
54			White - 10
55			Red - 11
56			Green - 11
57			Blue - 11
58			White - 11
59			Red - 12
60			Green - 12
61			Blue - 12
62			White - 12