

**TABLE 1. SMART COLOR CONTROL**

DMX CHANNEL BLADE LED GROUP			PARAMETER	DEFAULTS	RANGE	DESCRIPTION
0	1 (DEFAULT)	16				
1	1	1	Intensity High	0	0-65535	16-bit control of dimming
2	2	2	Intensity Low			
3	3	3	Pan High	32767	0-65535	540° total pan rotation
4	4	4	Pan Low			
5	5	5	Tilt High	32767	0-65535	270° total tilt
6	6	6	Tilt Low			
7	7	7	Zoom High	128	0-255	Zoom control 0 = widest zoom 255 = narrowest zoom Default value 50% zoom range
8	8	8	Cyan (High)	0	0 - 65535	Cyan Color Level Control 0 - 100% Saturation 6 Color LED array auto adjust to meet Cyan / mixed color point of full available color spectrum
9	9	9	Cyan (Low)			
10	10	10	Yellow (High)	0	0 - 65535	Yellow Color Level Control 0 - 100% Saturation 6 Color LED array auto adjust to meet Yellow / mixed color point of full available color spectrum
11	11	11	Yellow (Low)			
12	12	12	Magenta High)	0	0 - 65535	Magenta Color Level Control 0 - 100% Saturation 6 Color LED array auto adjust to meet Magenta / mixed color point of full available color spectrum
13	13	13	Magenta (Low			
14	14	14	CTO	75	0 - 250	Variable color temperature control channel Channel works independent of color mixing channel and will adjust all mixed color from selected color temperature level. Values stated below are a for guidance only channel should be mapped in such away that channel level runs variable from 0 - 250
					0	1800k
					25	2700K
					50	3000K
					75	3200K (Default)
					100	4000K
					125	4500K
					150	5000K
					175	5600K
					200	6500K
					225	8000K
					250	10000K
					250 - 255	Reserved Hold 10000K

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0	1 (DEFAULT)	16				
15	15	15	Green Shift	100	0 - 255  0-10 11-29 30-69 70-129 130-189 190-255	TV Camera Green Shift adjustment - work in conjunction with CTO (channel 14) Channel works only with CTO channel not any mixed CYM color to allow users to balance green levels in the white for on camera use 0 to -100% Minus Green Levels 100% = to Lee Filter Full minus Green 247  NO FUNCTION FULL MINUS GREEN -99% -1% NO FUNCTION (Default 100) 1% 99% FULL PLUS GREEN
16	16	16	Color Preset	0	0 - 255  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 75 - 78 79 - 82 83 - 86 87 - 90 91 - 94 95 - 98 99 - 102 103 - 106 107 - 110 111 - 114 115 - 118 119 - 122 123 - 126 127 - 130 131 - 134 135 - 138	Calibrated color presets 01 to 33 User definable color preset 01 to 20  Channel OFF Color Mixing take priority Moroccan Pink Pink Flesh Pink Bright Rose Follies Pink Fuchsia Pink Surprise Pink Congo Blue Blue Virgin Blue Midnight Maya Double C.T Blue Slate Blue Regal Blue Full C.T Blue Steel Blue Lighter Blue Cyan Marine Blue Soft Green Moss Green Green Fem Green JAS Green Pale Green Spring Yellow Yellow Deep Amber Chrome Orange Orange Magenta Flame Red

TABLE 1. SMART COLOR CONTROL

DMX CHANNEL BLADE LED GROUP			PARAMETER	DEFAULTS	RANGE	DESCRIPTION
0	1 (DEFAULT)	16				
16	16	16	Color Preset	0	139 - 142 143 - 146 147 - 150 151 - 154 155 - 158 159 - 162 163 - 166 167 - 170 171 - 174 175 - 178 179 - 182 183 - 186 187 - 190 191 - 194 195 - 198 199 - 202 203 - 206 207 - 210 211 - 214 215 - 218 219 - 222 223 - 255	Purple User Preset 1** User Preset 2** User Preset 3** User Preset 4** User Preset 5** User Preset 6** User Preset 7** User Preset 8** User Preset 9** User Preset 10** User Preset 11** User Preset 12** User Preset 13** User Preset 14** User Preset 15** User Preset 16** User Preset 17** User Preset 18** User Preset 19** User Preset 20** Channel OFF Color Mixing take priority **User defined color preset when replayed from DMX will only playback stored color values
17	17	17	Frost	0	0-255	Linear control of frost mechanism 0 = Fully open 255 = full closed
18	18	18	Strobe / Shutter	9	0 - 5 6 - 11 12 - 87 88 - 93 94 - 169 170 - 245 246 - 251 252 - 255	Shutter Closed Shutter Open (Default) Strobe Slow>>>>>>>Fast Shutter Open Strobe Random Slow>>>>>>>Fast Strobe Random Sync Slow>>>>>>>Fast Shutter Open Reserved
19	19	19	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 (Standard mode) DMX 255 = Lowest Constant Fan Speed (Whisper mode) * Standard mode only function is deactivated if Studio or Whsiper modes are slected via DMX or User Interface

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0	1 (DEFAULT)	16				
						Functions do not require 3 second DMX rule. mode will change once DMX level is reached
					0-40	
					41 - 45	Dimming Curve Linear
					46 - 50	Dimming Curve S-Curve
					51 - 55	Dimming Curve Square Curve (Default)**
					56 - 60	Reserved Values
					61 - 65	Dimmer Snap On
					66 - 70	Dimmer Snap Off (Default)
					71 - 75	Reserved Values
					76 - 80	Reserved Values
					81 - 85	Reserved Values
					86 - 90	Reserved Values
					91 - 95	Color Snap off (Default) (Color Timing active user definable smoothing to color - see color timing channel for specific timing values)
20	20	20	Programmers Channel	0	96 - 100	Color Snap on (This switches color timing channel color changes now at fastest rate no smoothing timing applied)
					101 - 105	Reserved Values
					106 - 110	Movement fast (Default)
					111 - 115	Movement smooth
					116 - 120	Reserved Values
					121 - 125	Tungsten Dimming On
					126 - 130	Tungsten Dimming Off (Default)
					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
21	21	21	Focus Timing	255	0 - 255	Please refer to timing table
22	22	22	Color Timing	255	0 - 255	Please refer to timing table
23	23	23	Beam Timing	255	0 - 255	Please refer to timing table
					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
					11 - 15	Fixture Shutdown
					16 - 20	Reserved Values
					21 - 25	Reserved Values
					26 - 30	Reserved Values
					31 - 35	Reserved Values
24	24	24	Control Channel	0		

TABLE 1. SMART COLOR CONTROL

DMX CHANNEL BLADE LED GROUP			PARAMETER	DEFAULTS	RANGE	DESCRIPTION
0	1 (DEFAULT)	16				
24	24	24	Control Channel	0	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	Pixel Sync on (only works in 16 pixel modes - blades pixels now work like pixel group 1 regardless of patch - without changing DMX footprint)
					71 - 75	Pixel Sync off(Default)(only works in 16 pixel mode deactivates pixel Sync)
					76 - 80	Display On
					81 - 85	Display Off
					86 - 90	Status Check
					91 - 95	Color Calibration on (Default)
					96 - 100	Color Calibration off
					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					
25	25	25	Intensity Blades	255	0-255	8-bit Dimming control of the Blade LED
26	26	26	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					

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DMX CHANNEL BLADE LED GROUP			PARAMETER	DEFAULTS	RANGE	DESCRIPTION
0	1 (DEFAULT)	16				
					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
26	26	26	Blade Light - Color Preset	0	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
					51	Color Effect 6
					52	Color Effect 7
					53	Color Effect 8
					54	Color Effect 9
					55	Color Effect 10
					56 - 94	Color Chase 1 (S>>>>>F)
					95 - 133	Color Chase 2 (S>>>>>F)
					134 - 172	Color Chase 3 (S>>>>>F)



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DMX CHANNEL BLADE LED GROUP			PARAMETER	DEFAULTS	RANGE	DESCRIPTION
0	1 (DEFAULT)	16				
	31	31	Blade LED Green (1*) *blade 1 of 16 group	0	0 - 255	8-bit control of Green LED blade light
	32	32	Blade LED Blue *blade 1 of 16 group	0	0 - 255	8-bit control of Blue LED Blade light
		33	Blade LED Red 2	0	0 - 255	8-bit control of Red LED Blade light
		34	Blade LED Green 2	0	0 - 255	8-bit control of Green LED blade light
		35	Blade LED Blue 2	0	0 - 255	8-bit control of Blue LED Blade light
		36	Blade LED Red 3	0	0 - 255	8-bit control of Red LED Blade light
		37	Blade LED Green 3	0	0 - 255	8-bit control of Green LED blade light
		38	Blade LED Blue 3	0	0 - 255	8-bit control of Blue LED Blade light
		39	Blade LED Red 4	0	0 - 255	8-bit control of Red LED Blade light
		40	Blade LED Green 4	0	0 - 255	8-bit control of Green LED blade light
		41	Blade LED Blue 4	0	0 - 255	8-bit control of Blue LED Blade light
		42	Blade LED Red 5	0	0 - 255	8-bit control of Red LED Blade light
		43	Blade LED Green 5	0	0 - 255	8-bit control of Green LED blade light
		44	Blade LED Blue 5	0	0 - 255	8-bit control of Blue LED Blade light
		45	Blade LED Red 6	0	0 - 255	8-bit control of Red LED Blade light
		46	Blade LED Green 6	0	0 - 255	8-bit control of Green LED blade light
		47	Blade LED Blue 6	0	0 - 255	8-bit control of Blue LED Blade light
		48	Blade LED Red 7	0	0 - 255	8-bit control of Red LED Blade light
		49	Blade LED Green 7	0	0 - 255	8-bit control of Green LED blade light
		50	Blade LED Blue 7	0	0 - 255	8-bit control of Blue LED Blade light
		51	Blade LED RED 8	0	0 - 255	8-bit control of Red LED Blade light
		52	Blade LED Green 8	0	0 - 255	8-bit control of Green LED blade light
		53	Blade LED Blue 8	0	0 - 255	8-bit control of Blue LED Blade light
		54	Blade LED RED 9	0	0 - 255	8-bit control of Red LED Blade light
		55	Blade LED Green 9	0	0 - 255	8-bit control of Green LED blade light
		56	Blade LED Blue 9	0	0 - 255	8-bit control of Blue LED Blade light
		57	Blade LED RED 10	0	0 - 255	8-bit control of Red LED Blade light
		58	Blade LED Green 10	0	0 - 255	8-bit control of Green LED blade light
		59	Blade LED Blue 10	0	0 - 255	8-bit control of Blue LED Blade light
		60	Blade LED RED 11	0	0 - 255	8-bit control of Red LED Blade light
		61	Blade LED Green 11	0	0 - 255	8-bit control of Green LED blade light
		62	Blade LED Blue 11	0	0 - 255	8-bit control of Blue LED Blade light
		63	Blade LED RED 12	0	0 - 255	8-bit control of Red LED Blade light
		64	Blade LED Green 12	0	0 - 255	8-bit control of Green LED blade light
		65	Blade LED Blue 12	0	0 - 255	8-bit control of Blue LED Blade light
		66	Blade LED RED 13	0	0 - 255	8-bit control of Red LED Blade light
		67	Blade LED Green 13	0	0 - 255	8-bit control of Green LED blade light
		68	Blade LED Blue 13	0	0 - 255	8-bit control of Blue LED Blade light
		69	Blade LED RED 14	0	0 - 255	8-bit control of Red LED Blade light
		70	Blade LED Green 14	0	0 - 255	8-bit control of Green LED blade light
		71	Blade LED Blue 14	0	0 - 255	8-bit control of Blue LED Blade light
		72	Blade LED RED 15	0	0 - 255	8-bit control of Red LED Blade light
		73	Blade LED Green 15	0	0 - 255	8-bit control of Green LED blade light



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DMX CHANNEL BLADE LED GROUP			PARAMETER	DEFAULTS	RANGE	DESCRIPTION
0	1 (DEFAULT)	16				
		74	Blade LED Blue 15	0	0 - 255	8-bit control of Blue LED Blade light
		75	Blade LED RED 16	0	0 - 255	8-bit control of Red LED Blade light
		76	Blade LED Green 16	0	0 - 255	8-bit control of Green LED blade light
		77	Blade LED Blue 16	0	0 - 255	8-bit control of Blue LED Blade light

**TABLE 2. OPEN SOURCE**

DMX CHANNEL BLADE LED GROUP			PARAMETER	DEFAULTS	RANGE	DESCRIPTION
0	1 (DEFAULT)	16				
1	1	1	Intensity High	0	0-65535	16 Bit control of Dimming
2	2	2	Intensity Low			
3	3	3	Pan High	32767	0-65535	540° Total Pan Rotation
4	4	4	Pan Low			
5	5	5	Tilt High	32767	0-65535	270° Total Tilt
6	6	6	Tilt Low			
7	7	7	Zoom High	128	0-255	Zoom control 0 = widest zoom 255 = narrowest zoom Default value 50% zoom range
8	8	8	Red (High)	0	0 - 65535	0 - 100% linear control of Red LED output
9	9	9	Red (Low)			
10	10	10	Green (High)	0	0 - 65535	0 - 100% linear control of Green LED output
11	11	11	Green (Low)			
12	12	12	Blue (High)	0	0 - 65535	0 - 100% linear control of Blue LED output
13	13	13	Blue (Low)			
14	14	14	Amber(High)	0	0 - 65535	0 - 100% linear control of Amber LED output
15	15	15	Amber (Low)			
16	16	16	Lime (High)	0	0 - 65535	0 - 100% linear control of Lime LED output
17	17	17	Lime (Low)			
18	18	18	Cyan (High)	0	0 - 65535	0 - 100% linear control of Cyan LED output
19	19	19	Cyan (Low)			
20	20	20	Color Preset	0	0 - 255	Calibrated color presets 1 to 33 User definable color preset 1 to 20
					0 - 10	Channel OFF Color Mixing take priority
					11 - 14	Moroccan Pink
					15 - 18	Pink
					19 - 22	Flesh Pink
					23 - 26	Bright Rose
					27 - 30	Follies Pink
					31 - 34	Fuchsia Pink
					35 - 38	Surprise Pink
					39 - 42	Congo Blue
					43 - 46	Blue
					47 - 50	Virgin Blue
					51 - 54	Midnight Maya
					55 - 58	Double C.T Blue
					59 - 62	Slate Blue

TABLE 2. OPEN SOURCE

DMX CHANNEL BLADE LED GROUP			PARAMETER	DEFAULTS	RANGE	DESCRIPTION
0	1 (DEFAULT)	16				
					63 - 66	Regal Blue
					67 - 70	Full C.T Blue
					71 - 74	Steel Blue
					75 - 78	Lighter Blue
					79 - 82	Cyan
					83 - 86	Marine Blue
					87 - 90	Soft Green
					91 - 94	Moss Green
					95 - 98	Green
					99 - 102	Fem Green
					103 - 106	JAS Green
					107 - 110	Pale Green
					111 - 114	Spring Yellow
					115 - 118	Yellow
					119 - 122	Deep Amber
					123 - 126	Chrome Orange
					127 - 130	Orange
					131 - 134	Magenta
					135 - 138	Flame Red
					139 - 142	Purple
20	20	20	Color Preset	0	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 **User defined color preset whe replayed from Dmx will only playback stored color values
21	21	21	Frost	0	0-255	Linear control of frost mechanism 0 = Fully open 255 = full closed

TABLE 2. OPEN SOURCE

DMX CHANNEL BLADE LED GROUP			PARAMETER	DEFAULTS	RANGE	DESCRIPTION
0	1 (DEFAULT)	16				
22	22	22	Strobe / Shutter	9	0 - 5 6 - 11 12 - 87 88 - 93 94 - 169 170 - 245 246 - 251 252 - 255	Shutter Closed Shutter Open (Default) Strobe Slow>>>>>>>Fast Strobe Open Strobe Random Slow>>>>>>>Fast Strobe Random Sync Slow>>>>>>>Fast Shutter Open Reserved
23	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 (Standard mode) DMX 255 = Lowest Constant Fan Speed (Whisper mode) * Standard mode only function is deactivated if Studio or Whsiper modes are slected via Dmx or User Interface once DMX level is reached
24	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	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 Timing active user definable smoothing to color - see color timing channel for specific timing values) Color Snap on (This switches color timing channel color changes now at fastest rate no smoothing timing applied) Reserved Values Movement fast (Default) Movement smooth Reserved Values Tungsten Dimming On Tungsten Dimming Off (Default) Reserved Values Reserved Values Reserved Values Reserved Values

TABLE 2. OPEN SOURCE

DMX CHANNEL BLADE LED GROUP			PARAMETER	DEFAULTS	RANGE	DESCRIPTION
0	1 (DEFAULT)	16				
24	24	24	Programmers Channel <i>continued</i>	0	156 - 160	Reserved Values
					161 - 165	Reserved Values
					166 - 170	Reserved Values
					171 - 175	Reserved Values
					176 - 255	Reserved Values
25	25	25	Focus Timing	255	0 - 255	Please refer to timing table
26	26	26	Color Timing	255	0 - 255	Please refer to timing table
27	27	27	Beam Timing	255	0 - 255	Please refer to timing table
28	28	28	Control Channel	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
					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	Pixel Sync on (only works in 16 pixel modes - blades pixels now work like pixel group 1 regardless of patch - without changing DMX footprint)
					71 - 75	Pixel Sync off(Default)(only works in 16 pixel mode deactivates pixel Sync)
					76 - 80	Display On
					81 - 85	Display Off
					86 - 90	Status Check
					91 - 95	Color Calibration on (Default)
					96 - 100	Color Calibration off
					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					

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DMX CHANNEL BLADE LED GROUP			PARAMETER	DEFAULTS	RANGE	DESCRIPTION
0	1 (DEFAULT)	16				
28	28	28	Control Channel	0	151 - 155 156 - 160 161 - 165 166 - 170 171 - 175 176 - 255	ReCal Position Reserved Values ReCal Beam Reserved Values Reset fixture to default Reserved Values
29	29	29	Intensity Blades	255	0-255	8-bit Dimming control of the Blade LED
30	30	30	Blade Light - Color Preset	0	0 - 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	No color Full Red Full Green Full Blue Full White (Red + Green + Blue 100%) Full Yellow (Blue + Green 100%) Full Magenta (Red + Blue 100%) Full Cyan (Blue + Green 100%) Moroccan Pink Pink Flesh Pink Bright Rose Follies Pink Fuchsia Pink Surprise Pink Congo Blue Blue Virgin Blue Midnight Maya Double C.T Blue Slate Blue Regal Blue Full C.T Blue Steel Blue Lighter Blue Cyan Marine Blue Soft Green Moss Green Green Fem Green JAS Green Pale Green Spring Yellow Yellow Deep Amber Chrome Orange Orange

**TABLE 2. OPEN SOURCE**

DMX CHANNEL BLADE LED GROUP			PARAMETER	DEFAULTS	RANGE	DESCRIPTION
0	1 (DEFAULT)	16				
30	30	30	Blade Light - Color Preset <i>continued</i>	0	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
					51	Color Effect 6
					52	Color Effect 7
					53	Color Effect 8
					54	Color Effect 9
					55	Color Effect 10
					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
6	Strobe Sync full					
7	Strobe Random full					
8	Blade chase 1 >>> 16					
9	Random blade chase					
10	Blade chase (Paired blades ) Start 1					
11	Blade chase (Paired blades) Start 1					
12	Blade chase (1/4 blades ) Start 1					
13	Blade chase (1/2 blades ) Start 1					
14	Blade chase (opposing blades Single ) Start 1					
15	Blade chase (opposing blades pairs ) Start 1					
16	Blade chase (opposing blades pairs ) Start 1					
17	Blade chase (opposing blades pairs ) Start 1					
18	Blade chase (opposing blades 1/4 ) Start 1					
19	Blade chase (opposing 4 Pixel Rotating)Start 1					
20	Blade chase (3 Pixel Rotation) Start 1					
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					

**TABLE 2. OPEN SOURCE**

DMX CHANNEL BLADE LED GROUP			PARAMETER	DEFAULTS	RANGE	DESCRIPTION
0	1 (DEFAULT)	16				
31	31	31	Blade Light - Macro Effects <i>continued</i>	0	29 30 231-255	Blade chase TBC Blade chase TBC Reserved
32	32	32	Blade light effects fade time	0	0 - 255	0 Fade time to XX fade time
33	33	33	Blade light effect speed	0	0 - 5 6 - 106 106 - 112 113 - 213 214 - 224 225 - 235 236 - 255	Stop No movement Clockwise chase S>>>>>>>>>F (Strobe flash rate in strobe effects) Pause No movement hold last position Counter clockwise chase S>>>>>>>>F Pause No movement hold last position Stop No movement 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 10	0	0 - 255	8-bit control of Blue LED Blade light

TABLE 2. OPEN SOURCE

DMX CHANNEL BLADE LED GROUP			PARAMETER	DEFAULTS	RANGE	DESCRIPTION
0	1 (DEFAULT)	16				
		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
		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

TABLE 3. COLOR PRESETS

COLOR PRESET	LED OUTPUT LEVEL %						CIE 1931 COORDINATES	
	R	G	B	A	L	C	X	Y
CP_1_Moroccan Pink	100.00%	0.00%	7.82%	100.00%	36.52%	0.00%	0.492	0.386
CP_2_Pink	100.00%	0.00%	4.30%	100.00%	9.66%	0.00%	0.558	0.348
CP_3_Flesh Pink	100.00%	0.00%	7.16%	100.00%	11.19%	0.00%	0.527	0.331
CP_4_Bright Rose	100.00%	0.00%	2.75%	48.96%	0.00%	0.00%	0.617	0.302
CP_5_Follies Pink	100.00%	0.00%	8.67%	78.89%	0.00%	0.00%	0.532	0.266
CP_6_Fuchsia Pink	100.00%	0.00%	31.39%	100.00%	22.87%	0.00%	0.395	0.255
CP_7_Surprise Pink	100.00%	0.00%	51.62%	100.00%	72.73%	0.00%	0.364	0.293
CP_8_Congo Blue	63.07%	0.00%	100.00%	0.00%	0.00%	95.26%	0.202	0.0879
CP_9_Blue	22.29%	0.00%	100.00%	0.00%	0.00%	77.16%	0.173	0.069
CP_10_Virgin Blue	36.12%	100.00%	100.00%	0.00%	10.09%	100.00%	0.192	0.171
CP_11_Midnight Maya	89.29%	12.95%	100.00%	0.00%	0.00%	100.00%	0.217	0.106
CP_11_Double C.T Blue	49.60%	100.00%	100.00%	0.00%	71.25%	100.00%	0.25	0.256
CP_13_Slate Blue	0.00%	100.00%	93.69%	10.03%	100.00%	100.00%	0.25	0.291
CP_14_Regal Blue	69.74%	38.62%	100.00%	0.00%	0.00%	100.00%	0.204	0.12
CP_15_Full C.T Blue	100.00%	100.00%	63.22%	100.00%	100.00%	59.40%	0.33	0.339
CP_16_Steel Blue	51.51%	100.00%	40.49%	100.00%	100.00%	100.00%	0.332	0.39
CP_17_Lighter Blue	0.00%	100.00%	36.57%	0.00%	40.06%	100.00%	0.25	0.366
CP_18_Cyan	0.00%	100.00%	44.76%	0.00%	20.07%	100.00%	0.1923	0.2842
CP_19_Marine Blue	0.00%	100.00%	23.89%	0.00%	58.86%	100.00%	0.268	0.419
CP_20_Soft Green	0.00%	100.00%	11.39%	0.00%	37.38%	100.00%	0.256	0.472
CP_21_Moss Green	0.00%	100.00%	0.00%	0.00%	42.13%	38.02%	0.311	0.58
CP_22_Green	0.00%	100.00%	0.00%	0.00%	7.59%	0.00%	0.225	0.65
CP_23_Fem Green	0.00%	100.00%	1.56%	0.00%	94.75%	100.00%	0.336	0.549



**TABLE 3. COLOR PRESETS**

COLOR PRESET	LED OUTPUT LEVEL %						CIE 1931 COORDINATES	
	R	G	B	A	L	C	X	Y
CP_24_JAS Green	0.00%	100.00%	0.00%	0.00%	45.20%	52.79%	0.3094	0.5757
CP_25_Pale Green	100.00%	89.95%	10.99%	100.00%	100.00%	0.00%	0.419	0.463
CP_26_Spring Yellow	82.28%	100.00%	2.63%	100.00%	100.00%	99.99%	0.4032	0.5019
CP_27_Yellow	100.00%	67.93%	6.36%	100.00%	100.00%	0.00%	0.4375	0.475
CP_28_Deep Amber	100.00%	0.00%	1.55%	54.55%	0.00%	0.00%	0.6389	0.3187
CP_29_Chrome Orange	100.00%	0.00%	3.40%	100.00%	22.49%	0.00%	0.5393	0.3898
CP_30_Orange	100.00%	0.00%	2.59%	100.00%	12.08%	0.00%	0.5701	0.3706
CP_31_Magenta	100.00%	0.00%	9.12%	54.42%	0.00%	0.00%	0.5232	0.2493
CP_32_Flame Red	100.00%	0.00%	2.54%	100.00%	3.36%	0.00%	0.5992	0.3403
CP_33_Purple	100.00%	0.00%	41.06%	100.00%	3.63%	0.00%	0.3588	0.1725

**TABLE 4. CTO CHANNEL**

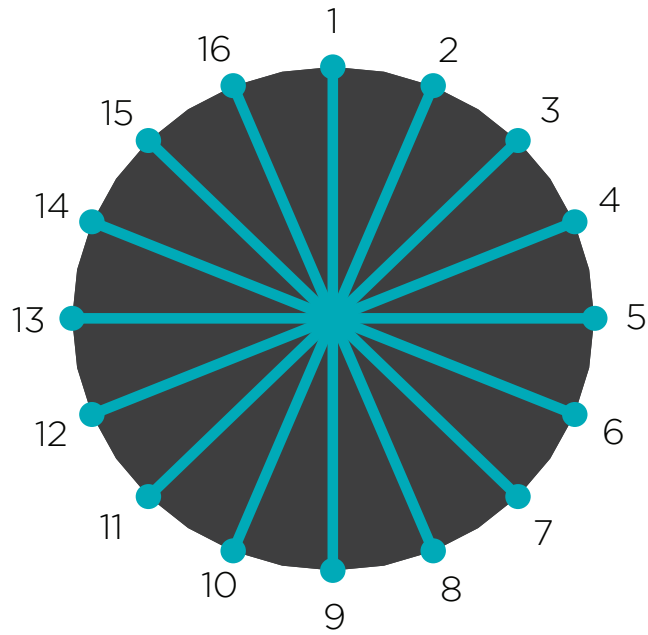
DEFAULT	RANGE DMX	COLOR TEMPERATURE
	0 - 250	Variable color temperature control channel Channel works independent of color mixing channel and will adjust all mixed color from selected color temperature level. Values stated below are a for guidance only channel should be mapped in such away that channel level runs variable from 0 - 250
	0	1800K
	25	2700K
	50	3000K
	75	3200K (Default)
75	100	4000K
	125	4500K
	150	5000K
	175	5600K
	200	6500K
	225	8000K
	250	10000K
	250 - 255	Reserved Hold 10000K

**TABLE 5. BLADE COLOR CONTROL**

PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
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

**TABLE 5. BLADE COLOR CONTROL**

PARAMETER	DEFAULTS	RANGE DMX	DESCRIPTION
Blade light - color preset <i>continued</i>	0	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
		51	Color Effect 6
		52	Color Effect 7
		53	Color Effect 8
		54	Color Effect 9
		55	Color Effect 10
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		



**TABLE 6. BLADE EFFECTS MACROS**

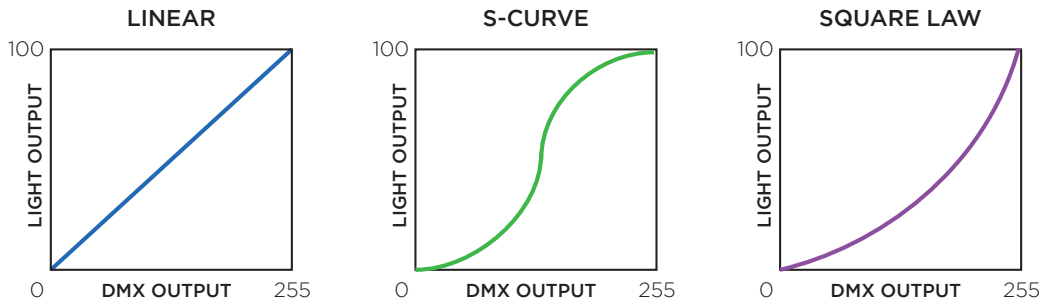
DMX	FX	STEP	BLADE																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
0-5	Blade light - macro effects; uses blade effect fade & speed channels to control parameters of chase																			
6	Strobe Normal (all Blades) Speed control via																			
7	Strobe Random (All Blades)																			
8	Blade chase 1 >>> 16	1	■																	
		2		■																
		3			■															
		4				■														
		5					■													
		6						■												
		7							■											
		8								■										
		9									■									
		10										■								
		11											■							
		12												■						
		13													■					
		14														■				
		15															■			
		16																■		
8	Random blade chase																			
9	Blade chase (Paired blades ) Start 1	1	■	■																
		2		■	■															
		3			■	■														
		4				■	■													
		5					■	■												
		6						■	■											
		7							■	■										
		8								■	■									

**TABLE 6. BLADE EFFECTS MACROS**

DMX	FX	STEP	BLADE																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
10	Blade chase (Paired blades) Start 1	1	■		■														
		2		■		■													
		3			■		■												
		4				■		■											
		5					■		■										
		6						■		■									
		7							■		■								
		8								■		■							
		9									■		■						
		10										■		■					
		11											■		■				
		12												■		■			
		13													■		■		
		14														■		■	
15															■		■		
16																■			
11	Blade chase (1/4 blades ) Start 1	1	■	■	■	■													
		2		■	■	■	■												
		3			■	■	■	■											
		4				■	■	■	■										
12	Blade chase (1/2 blades ) Start 1	1	■	■	■	■	■	■	■										
		2		■	■	■	■	■	■	■	■								
13	Blade chase (opposing blades Single ) Start 1	1	■								■								
		2		■								■							
		3			■								■						
		4				■								■					
		5					■								■				
		6						■								■			
		7							■								■		
		8								■								■	
14	Blade chase (opposing blades pairs ) Start 1	1	■	■							■	■							
		2		■	■							■	■						
		3			■	■							■	■					
		4				■	■							■	■				
		5					■	■							■	■			
		6						■	■							■	■		
		7							■	■							■	■	
		8								■	■							■	■
15	Blade chase (opposing blades pairs ) Start 1	1	■		■						■		■						
		2		■		■						■			■				
		3			■		■						■			■			
		4				■		■						■			■		
		5					■		■						■			■	
		6						■		■						■			

**TABLE 6. BLADE EFFECTS MACROS**

DMX	FX	STEP	BLADE																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
16	Blade chase (opposing blades pairs ) Start 1	1	█				█					█			█				
		2		█				█				█				█			
		3			█					█				█				█	
		4				█					█				█				█
		5					█						█				█		
17	Blade chase (opposing blades 1/4 ) Start 1	1	█	█	█	█	█					█	█	█	█	█			
		2	█					█	█	█	█	█					█	█	█
18	Blade chase (opposing 4 Pixel Rotating) Start 1	1	█				█					█				█			
		2		█				█				█					█		
		3			█					█				█				█	
		4				█					█				█				█
19	Blade chase (3 Pixel Rotation) Start 1	1	█							█					█				
		2		█						█					█				
		3			█						█				█				
		4				█						█				█			
		5					█							█					█
20	Blade chase TBC																		
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																		

**TABLE 7. PROGRAMMERS CHANNEL**

DMX	ITEMS	DESCRIPTION	POWER CYCLE RULES	RECAL RULES	RESET TO DEFAULT FIXTURE	RESET TO DEFAULT UI	FUNCTION SELECTION VIA UI
0-255		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	N/A	N/A	N/A
76 - 80	Reserved Values		N/A	N/A	N/A	N/A	N/A
81 - 85	Reserved Values		N/A	N/A	N/A	N/A	N/A
86 - 90	Reserved Values		N/A	N/A	N/A	N/A	N/A
91 - 95	Color Snap off (Default)	Color Timing active user definable smoothing to color - see color timing channel for specific timing values)	Hold setting	Hold setting	Resets to default	Resets to default	Yes
96 - 100	Color Snap On	Increases speed of color changing; removes all smoothing between LED color changes	Hold setting	Hold setting	Resets to default	Resets to default	Yes
101 - 105	Reserved Values						
106 - 110	Movement fast (Default)	Fixture runs at fastest movement speed movements and changes in direction (Focus timing is still active - see timing channel for specific timing values)	Hold setting	Hold setting	Resets to default	Resets to default	Yes

**TABLE 7. PROGRAMMERS CHANNEL**

DMX	ITEMS	DESCRIPTION	POWER CYCLE RULES	RECAL RULES	REST TO DEFAULT FIXTURE	RESET TO DEFAULT UI	FUNCTION SELECTION VIA UI
111 - 115	Movement smooth	Reduces movement speed to reduce risk of fixture stalling during movement chases (Recommended use when side hanging fixture) (Focus timing is still active - see timing channel for specific timing values)	Hold setting	Hold setting	Resets to default	Resets to default	Yes
116 - 120	Reserved Values						
121 - 125	Tungsten Dimming On	Remote switches Tungsten Dimming color shift on	Hold setting	Hold setting	Resets to default	Resets to default	Yes
126 - 130	Tungsten Dimming Off (Default)	Remote switches Tungsten Dimming color shift off	Hold setting	Hold setting	Resets to default	Resets to default	Yes
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						

**TABLE 8. PROGRAMMERS CHANNEL**

DMX	Items	DESCRIPTION	POWER CYCLE RULES	RECAL RULES	REST TO DEFAULT FIXTURE	RESET TO DEFAULT UI	FUNCTION SELECTION VIA 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 with in 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	N/A
16 - 20	Reserved Values		N/A				
21 - 25	Reserved Values		N/A	N/A	N/A	N/A	N/A

**TABLE 8. PROGRAMMERS CHANNEL**

DMX	Items	DESCRIPTION	POWER CYCLE RULES	RECAL RULES	REST TO DEFAULT FIXTURE	RESET TO DEFAULT UI	FUNCTION SELECTION VIA UI
26 - 30	Reserved Values		N/A	N/A	N/A	N/A	N/A
31 - 35	Reserved Values		N/A	N/A	N/A	N/A	N/A
36 - 40	Reserved Values		N/A	N/A	N/A	N/A	N/A
41 - 45	Reserved Values		N/A	N/A	N/A	N/A	N/A
46 - 50	Reserved Values		N/A	N/A	N/A	N/A	N/A
51 - 55	Reserved Values		N/A	N/A	N/A	N/A	N/A
56 - 60	Reserved Values		N/A	N/A	N/A	N/A	N/A
61 - 65	Reserved Values		N/A	N/A	N/A	N/A	N/A
66 - 70	Pixel Sync On (only usable in 16 pixel group modes)	Pixel Sync on (only works in 16 pixel modes - blades pixels now work like pixel group 1 regardless of patch - without changing DMX footprint) Blade light Pixel Sync off(Default) (only works in 16 pixel mode deactivates pixel Sync)	Hold Settings	N/A	N/A	N/A	N/A
71 - 75	Pixel Sync off (Default)(only usable in 16 pixel group modes)	Blade light Pixel Sync off(Default) (only works in 16 pixel mode deactivates pixel Sync)	Hold Settings	N/A	N/A	N/A	N/A
76 - 80	Display On	Remote activation of User interface display back light - on for 10 mins	N/A	N/A	N/A	N/A	N/A
81 - 85	Display Off	Display off switches off display before time out	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
91 - 95	Color Calibration on (Default)	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	Yes
96 - 100	Color Calibration off	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	Yes
101 - 105	Reserved Values		N/A				
106 - 110	Reserved Values		N/A	N/A	N/A	N/A	N/A
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 Continuous (136-140) or Auto (141-145)	Hold Setting	Hold Setting	Resets to Default	Resets to Default	Yes



**TABLE 8. PROGRAMMERS CHANNEL**

DMX	Items	DESCRIPTION	POWER CYCLE RULES	RECAL RULES	REST TO DEFAULT FIXTURE	RESET TO DEFAULT UI	FUNCTION SELECTION VIA UI
116 - 120	Studio Mode - Reduced output with lower fan settings	Studio Mode - Fan speed reduced to appropriate amount to reduce dB levels >10% of full speed + LED @ max output approximately 80% of Standard output at appropriate level to ensure LED work at optimum temperature and output efficiency *Fans can be switched between Continuous (136-140) or Auto (141-145)	Hold Setting	Hold Setting	Resets to Default	Resets to Default	Yes
121 - 125	Whisper Mode - Reduced output with lower fan settings	Whisper mode - Fan speed reduced to appropriate amount to reduce dB levels to >30% of the full speed + LED Max output approximately 60% of Standard output at appropriate level to ensure LED work at optimum temperature and output efficiency *Fans can be switched between Continuous (136-140) or Auto (141-145)	Hold Setting	Hold Setting	Resets to Default	Resets to Default	Yes
126 - 130	Reserved Values		N/A	N/A	N/A	N/A	N/A
131 - 135	Record User Color Preset	Takes Current Color mixing values and stores to next available blank User color preset - if preset listing are full preset will not record. User will need to clear preset via fixture UI	N/A	N/A	N/A	N/A	N/A
136 - 140	Fan On (Default)	Fans run at continuous speed in isolation to the LED operating temperature	Hold Setting	Hold Setting	Resets to Default	Resets to Default	Yes
141 - 145	Fan Auto	Fans will reduce / increase speed on demand based on LED operating temperature	Hold Setting	Hold Setting	Resets to Default	Resets to Default	Yes
146 - 150	Reserved Values		N/A	Hold Setting	Resets to Default	Resets to Default	Yes
151 - 155	ReCal Position	Recalibration of Positions	N/A	Hold Setting	Resets to Default	Resets to Default	Yes
156 - 160	Reserved Values		N/A	Hold Setting	Resets to Default	Resets to Default	Yes
161 - 165	ReCal Beam	Recalibration of all Beam function	N/A	Hold Setting	Resets to Default	Resets to Default	Yes
166 - 170	Reserved Values		N/A	Hold Setting	Resets to Default	Resets to Default	Yes
171 - 175	Reset fixture to default	Will reset all parameters to default with the exception of the DMX address fixture mode	N/A	N/A	N/A	N/A	Yes
176 - 255	Reserved Values		N/A	Hold Setting	Resets to Default	Resets to Default	Yes

**TABLE 9. 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 10. 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 11. BEAM CONTROL**

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

**TABLE 12. 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

TABLE 13. TIMING CHANNEL

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

TABLE 13. TIMING CHANNEL

DMX	% VALUES	TIME (S)	DMX	% VALUES	TIME (S)	DMX	% VALUES	TIME (S)
47		9.4	95		27	143	56	46
144		47	191	75	85	238		250
145	57	47	192		85	239		260
146		47	193		90	240	94	260
147		48	194	76	90	241		270
148	58	48	195		95	242	95	270
149		49	196	77	95	243		270
150	59	49	197		95	244		280
151		49	198		100	245	96	280
152		50	199	78	100	246		290
153	60	50	200		110	247	97	290
154		50	201	79	110	248		290
155		51	202		110	249		300
156	61	51	203		120	250	98	300
157		52	204	80	120	251		310
158	62	52	205		120	252	99	310
159		52	206	81	130	253		310
160		53	207		130	254		310
161	63	53	208		140	255	100	Follows Cue Data
162		54	209	82	140			
163	64	54	210		140			
164		54	211		150			
165		55	212	83	150			
166	65	55	213		160			
167		56	214	84	160			
168	66	56	215		160			
169		56	216		170			
170		57	217	85	170			
171	67	57	218		180			
172		58	219	86	180			
173	68	58	220		180			
174		58	221		190			
175		59	222	87	190			
176	69	59	223		200			
177		59	224	88	200			
178		60	225		200			
179	70	60	226		210			
180		65	227	89	210			
181	71	65	228		210			
182		65	229		220			
183		70	230	90	220			
184	72	70	231		230			
185		75	232	91	230			
186	73	75	233		230			
187		75	234		240			
188		80	235	92	240			
189	74	80	236		250			
190		85	237	93	250			

