

DMX	Parameter	Range DMX	Range %	Defaults *	Description	Notes
1	Pan High	0-65535	0-100%	32767	Fixture Pan - 540°	
2	Pan Low					
3	Pan High	0-65535	0-100%	32767	Fixture Tilt - 270°	
4	Pan Low					
5	Intensity High	0-65535	0-100%	0	16Bit Dimming	
6	Intensity Low					
7	Shutter / Strobe	0-255	0-100%	0	0-31 Closed 32-63 Open 64-95 Strobe Slow to Fast 96-127 Open 128-159 Pulse 160-191 Open 192-223 Random Strobe Slow to fast 224 - 255 Shutter Open	
8	Color Wheel	0-255	0-100%		0-15 Open 16-25 Color 1 26-35 Color 2 36-45 Color 3 46-55 Color 4 56-65 Color 5 66-75 Color 6 76-85 Color 7 86-95 Open 96-105 open + Color 1 Split 106-115 Color 1 + Color 2 Split 116 - 125 Color 2 + Color 3 Split 126 - 135 Color 3 + Color 4 Split 136 - 145 Color 4 + Color 5 Split 146 - 155 Color 5 + Color 6 Split 156 - 165 Color 6 + Color 7 Split 166 - 175 Color 7 + open Split 176 - 185 open 186 - 216 Scroll Clockwise slow to fast 217 - 247 Scroll counter Clockwise slow to fast 248 - 255 Open	
9	Cyan Color Flag High	0-65535	0-100%	0	16 Bit Color Control	
10	Cyan Color Flag Low					
11	Magenta Color Flag High	0-65535	0-100%	0	16 Bit Color Control	
12	Magenta Color Flag Low					
13	Yellow Color Flag High	0-65535	0-100%	0	16 Bit Color Control	
14	Yellow Color Flag Low					
15	CTO Color Flag	0-65535	0-100%	0	0 - 50 open 51-100 CTO on 101 - 255 reserved for use - Open	
16	Zoom High	0-65535	0-100%	0	16 Bit Zoom control	
17	Zoom Low					
18	Focus High	0-65535	0-100%	TBC	16 Bit Focus Control	
19	Focus Low					
20	Gobo Wheel 1 (Rotating Gobo Wheel)	0-255	0-100%	0	0-5-Open 6 - 10 Gobo 1 Circles of Holes Index 11 - 15 Gobo 2 Blades Index 16 - 20 Gobo 3 Punch Card Index 21 - 25 Gobo 4 Sliced Index 26 - 30 Gobo 5 Wavy Triangle Index 31 - 35 Gobo 6 Spiral Index 36 - 40 Open 41 - 45 Gobo 1 Circle of Holes Rotation 46 - 50 Gobo 2 Blades Rotation 51 - 55 Gobo 3 Punch Card Rotation 56 - 60 Gobo 4 Sliced Rotation 61 - 65 Gobo 5 Wavy Triangle Rotation 66 - 70 Gobo 6 Spiral Rotation 71 - 85 Open 86 - 90 Circle of Holes Shake (Rotation available as well) Fast to Slow 91 - 95 Blades (Rotation available as well) Fast to Slow 96 - 100 Punch Card Shake (Rotation available as well) Fast to Slow 101 - 105 Sliced Shake (Rotation available as well) Fast to Slow 106 - 110 Wavy Triangle Shake (Rotation available as well) Fast to Slow 111 - 115 Spiral Shake (Rotation available as well) Fast to Slow 116 -120 Open 121 - 180 Gobo Wheel Scroll slow to fast clockwise 181 - 185 Open 186 - 246 Gobo Wheel Scroll slow to fast counter clockwise 247 - 255 Open	

DMX	Parameter	Range DMX	Range %	Defaults *	Description	Notes
21	Gobo Wheel 1 Index / Ration High	0-65535	0-100%	32767	0-32756 Fast to Slow rotation / Index Counter Clockwise direction	
22	Gobo Wheel 1 Index Rotation Low				32757 - 32780 Home (Stop) 32781 - 65535 Fast to Slow rotation / Index Clockwise direction	
23	Gobo Wheel 2 (Fixed Gobo Wheel)	0-255	0-100%	0	0-10 Open 11-20 Gobo 1 Night Sky 21-30 Gobo 2 Leafy Breakup 31-40 Gobo 3 Swirl 41-50 Gobo 4 Lattice 51-60 Gobo 5 Bricked Out 61-70 Gobo 6 Tribal 71-80 Gobo 7 Alpha Rays 81-90 Gobo 8 Grid 91-100 Gobo 9 Honeycomb 101-110 OPEN 111-120 Gobo 1 Night Sky Slow to fast 121-130 Gobo 2 Leafy Breakup Shake Slow to fast 131-140 Gobo 3 Swirl Shake Slow to fast 141-150 Gobo 4 Lattice Shake Slow to fast 151-160 Gobo 5 Bricked Out Shake Slow to fast 161-170 Gobo 6 Tribal Shake Slow to fast 171-180 Gobo 7 Alpha Rays Shake Slow to fast 181-190 Gobo 8 Grid Shake Slow to fast 191-200 Gobo 9 Honeycomb Slow to fast 201-216 Open 216-230 Gobo wheel Scroll slow to fast clockwise 231-235 Open 236-250 Gobo wheel scroll slow to fast 251-255 Open	
24	Prism	0-255	0-100%	0	0-30 Open 31-60 Prism Index 61-90 Open 91-120 Prism Rotation 121-150 Open 151-255 Future use	
25	Prism Index/Rotation High	0-65535	0-100%	32767	0-32756 Fast to Slow rotation / Index Counter Clockwise direction	
26	Prism Index/Rotation Low				32757 - 32780 Home (Stop) 32781 - 65535 Fast to Slow rotation / Index Counter Clockwise direction	
27	Frost	0-255	0-100%	0	0-50 Open 51-100 Frost 100-150 Open 151-255 Future use	
28	Iris	0-255	0-100%	0	0-200 Iris beam size open to closed 201 - 255 Iris Pulse slow to fast	
29	Blade 1 A Insert High	0-65535	0-100%	0	0-655535 blade out or beam to blade full inserted into beam	
30	Blade 1 A insert Low					
31	Blade 1 B Insert High	0-65535	0-100%	0	0-655535 blade out or beam to blade full inserted into beam	
32	Blade 1 B insert Low					
33	Blade 2 A Insert High	0-65535	0-100%	0	0-655535 blade out or beam to blade full inserted into beam	
34	Blade 2 A insert Low					
35	Blade 2 B Insert High	0-65535	0-100%	0	0-655535 blade out or beam to blade full inserted into beam	
36	Blade 2 B insert Low				0-655535 blade out or beam to blade full inserted into beam	
37	Blade 3 A Insert High	0-65535	0-100%	0	0-655535 blade out or beam to blade full inserted into beam	
38	Blade 3 A insert Low					
39	Blade 3 B Insert High	0-65535	0-100%	0	0-655535 blade out or beam to blade full inserted into beam	
40	Blade 3 B insert Low					
41	Blade 4 A Insert High	0-65535	0-100%	0	0-655535 blade out or beam to blade full inserted into beam	
42	Blade 4 A insert Low					
43	Blade 4 B Insert High	0-65535	0-100%	0	0-655535 blade out or beam to blade full inserted into beam	
44	Blade 4 B insert Low					
45	Blade Gate Rotation High	0-65535	0-100%	32767	0-32756 angle - from 0°	
46	Blade Gate Rotation Low				32757 - 32780 Home 0° 32781 - 65535 + from 0°	

DMX	Parameter	Range DMX	Range %	Defaults *	Description	Notes
47	Blade Macro effects	0-255	0-100%	0	0-15 Off 16-30 Macro 1 31-45 Macro 2 46-60 Macro 3 61-75 Macro 4 76-90 Macro 5 91-105 Macro 6 106-120 Macro 7 121-135 Macro 8 136-150 Macro 9 151-165 Macros 10 166-180 Macro 11 181-195 Macro 12 196-210-Macro 13 211-225 Macro 14 226-240 Macro 15 241 - 255 Macro 16	
48	Blade speed / timing	0-255	0-100%	0	0 - 20 Blade at most accurate fast speed 21 - 255 Blade movement slow to fast	
49	Movement Speed / Timing	0-255	0-100%	0	0-20 <u>Smoothest</u> movement all fixtures match & accurate 21-255 Movement speed fast to slow	
50	Auto Focus	0-255	0-100%	0	Auto Focus Off = 0 - 50 Auto Focus On = 51-150 15m throw distance Auto Focus On = 51-150 25m throw distance	
51	CMY Speed / Timing	0-255	0-100%	0	0-20 <u>smoothest</u> color movement all fixtures match & accurate 21-255 color Movement speed fast to slow	
52	Dimmer Mode	0-255	0-100%	0	0-40 Standard Dimming 41-80 Stage Dimming curve 81-120 TV Dimming curve 121-160 Architectural Dimming curve 161-200 Theatre Dimmer curve 201-255 For future use	
53	Control Channel	0-255	0-100%	0	0-39 Idle 40-59 Standard Mode 60-79 Studio Mode 80-84 Full Reset 85-87 Pan / Tilt reset 88-90 Color reset 91-93 Gobo Reset 94-96 Blade reset 97-99 Prism & Frost Reset 100-119 Internal Program 1 120-139 Internal Program 2 140-159 Internal Program 3 160-179 Internal Program 4 180-199 Internal Program 5 200-219 Internal Program 6 220-239 Internal Program 7 240-255 Reserved	To execute a command, the control channel must be set to idle (DMX 0) then changed to a particular value and held for 3 seconds then restored to DMX 0. Upon completion of this routine, the desired command will be executed by the luminaire.