

## 6. DMX PROTOCOL

Channel	Value	Percent	Function
<b>1</b>	0 - 4	0 - 1	<b>Strobe, music trig, macros, reset</b> No function
	5 - 68	2 - 26	Strobe (fast to slow)
	69 - 100	27 - 39	Remote stand-alone, auto trig
	101 - 112	40 - 44	Macro 1
	113 - 124	45 - 48	Macro 2
	125 - 136	49 - 53	Macro 3
	137 - 148	54 - 58	Macro 4
	149 - 160	59 - 62	Macro 5
	161 - 172	63 - 67	Macro 6
	173 - 184	68 - 72	Macro 7
	185 - 196	73 - 76	Macro 8
	197 - 208	77 - 81	Macro 9
	209 - 220	82 - 86	Macro 10
	221 - 232	87 - 91	Macro 11
	233 - 249	92 - 97	Macro 12
250 - 255	98 - 100	Reset fixture (value must be held for 5 seconds)	
<b>2</b>	0 - 255	0 - 100	<b>Intensity</b> 0 - 100%

Channel	Value	Percent	Function
3	0 - 5	0 - 1	<b>Color wheel</b>
	6 - 11	2 - 3	Color 1 (White)
	12 - 17	4 - 6	Split Color 1-2 (White and Blue B04)
	18 - 23	7 - 8	Color 2 (Blue B04)
	24 - 29	9 - 11	Split Color 2-3 (Blue B04 and Orange B09)
	30 - 35	12 - 13	Color 3 (Orange B09)
	36 - 41	14 - 15	Split Color 3-4 (Orange B09 and Red B01)
	42 - 47	16 - 18	Color 4 (Red B01)
	48 - 53	19 - 20	Split Color 4-5 (Red B01 and Light Yellow B03)
	54 - 59	21 - 22	Color 5 (Light Yellow B03)
	60 - 65	23 - 25	Split Color 5-6 (Light Yellow B03 and Pink B12)
	66 - 71	26 - 27	Color 6 (Pink B12)
	72 - 77	28 - 29	Split Color 6-7 (Pink B12 and Medium Blue B13)
	78 - 83	30 - 32	Color 7 (Medium Blue B13)
	84 - 89	33 - 34	Split Color 7-8 (Medium Blue B13 and Light Red B19)
	90 - 95	35 - 37	Color 8 (Light Red B19)
	96 - 101	38 - 39	Split Color 8-9 (Light Red B19 and Light Green B08)
	102 - 107	40 - 41	Color 9 (Light Green B08)
	108 - 113	42 - 44	Split Color 9-10 (Light Green B08 and Blue B05)
	114 - 119	45 - 46	Color 10 (Blue B05)
	120 - 125	47 - 48	Split Color 10-11 (Blue B05 and Pink B11)
	126 - 131	49 - 51	Color 11 (Pink B11)
	132 - 137	52 - 53	Split Color 11-12 (Pink B11 and Light Blue B06)
138 - 143	54 - 55	Color 12 (Light Blue B06)	
144 - 149	56 - 58	Split Color 12-13 (Light Blue B06 and Yellow B02)	
150 - 155	59 - 60	Color 13 (Yellow B02)	
156 - 161	61 - 62	Split Color 13-14 (Yellow B02 and Primary Red B14)	
162 - 167	63 - 65	Color 14 (Primary Red B14)	
168 - 173	66 - 67	Split Color 14-15 (Primary Red B14 and Green B07)	
174 - 179	68 - 70	Color 15 (Green B07)	
180 - 185	71 - 72	Color 16 (Mix 1)	
186 - 191	73 - 74	Color 17 (Mix 2)	
192 - 197	75 - 77	Color 18 (Mix 3)	
198 - 203	78 - 79	Color 19 (Mix 4)	
			Color 20 (Mix 5)
			<b>Continuous rotation</b>
	204 - 229	80 - 89	Clockwise rotation (fast to slow)
	230 - 255	90 - 100	Counter-clockwise rotation (slow to fast)

Channel	Value	Percent	Function
<b>4</b>	0 - 11	0 - 4	<b>Gobo wheel</b> Gobo 1 (Open)
	12 - 23	5 - 8	Gobo 2 - Dune)
	24 - 35	9 - 13	Gobo 3 - Sunburst
	36 - 47	14 - 18	Gobo 4 - Gemini
	48 - 59	19 - 23	Gobo 5 - Mr. Spok
	60 - 71	24 - 27	Gobo 6 - Triptych
	72 - 83	28 - 32	Gobo 7 - Space lice
	84 - 95	33 - 37	Gobo 8 - Nova
	96 - 107	38 - 41	Gobo 9 - Circular saw
	108 - 119	42 - 46	Gobo 10 - Racer
	120 - 131	47 - 51	Gobo 11 - Black hole
	132 - 143	52 - 55	Gobo 12 - Bat
	144 - 155	56 - 60	Gobo 13 - Beep
	156 - 167	61 - 65	Gobo 14 - Fame
	168 - 179	66 - 70	Gobo 15 - Thatch
	180 - 191	71 - 74	Gobo 16 - Black out
			<b>Continuous rotation</b>
	192 - 223	75 - 87	Clockwise rotation (fast to slow)
	224 - 255	88 - 100	Counter-clockwise rotation (slow to fast)
<b>5</b>	0 - 255	0 - 100	<b>Pan</b> Left to right (127 = neutral)
<b>6</b>	0 - 255	0 - 100	<b>Tilt</b> Down to up (127 = neutral)
<b>7*</b>	0 - 2 3 - 255	0 - 1 2 - 79	<b>Pan &amp; tilt speed (8-channel mode only)</b> Tracking (default) Fast to slow
<b>8*</b>	0 - 2 3 - 255	0 - 1 2 - 100	<b>Color &amp; gobo wheels rotation speed (8-channel mode only)</b> Tracking (default) Fast to slow

\* Channels 7 and 8 are available in 8-channel DMX mode only. In 6-channel DMX mode, pan & tilt speed and color & gobo wheel rotation speed are set to 'tracking'.