

# DMX PROTOCOL

appendix a

Start code = 0

DMX channel	Value	Percent	Function
1  * If the command is disabled, set channels 3, 4, and 5 (CMY) from 230 to 232.	0 - 19	0 - 7	<b>Shutter, Strobe, Reset, Lamp On/Off</b> Shutter closed
	20 - 49	8 - 19	Shutter open
	50 - 112	20 - 44	Strobe, fast → slow
	113 - 127	44 - 50	Shutter closed
	128 - 147	50 - 58	Random strobe, fast
	148 - 167	58 - 65	Random strobe, medium
	168 - 187	66 - 73	Random strobe, slow
	188 - 207	74 - 81	Shutter closed
	208 - 217	82 - 85	Reset fixture*
	218 - 227	85 - 89	Shutter closed
	228 - 237	89 - 93	Lamp power on
	238 - 247	93 - 97	Shutter closed
	248 - 255	97 - 100	Lamp power off* <b>Note:</b> T ≥ 5 seconds
2	0 - 255	0 - 100	<b>Intensity</b> 0 → 100%
3	0-255	0 - 100	<b>Cyan</b> White → Cyan
4	0-255	0 - 100	<b>Magenta</b> White → Magenta
5	0-255	0 - 100	<b>Yellow</b> White → Yellow
6	0 - 40	0 - 16	<b>Color Wheel</b> Continuous Scroll White → Color 1
	40 - 80	16 - 31	Color 1 → Color 2
	80 - 120	31 - 47	Color 2 → Color 3
	120 - 160	47 - 63	Color 3 → Color 4
	161 - 165	63 - 65	Stepped Scroll Color 4
	166 - 170	65 - 67	Color 3
	171 - 175	67 - 69	Color 2
	176 - 180	69 - 71	Color 1
	181 - 185	71 - 73	White
	186 - 214	73 - 84	Rotation CW, fast → slow
	215 - 243	84 - 95	CCW, slow → fast
	244 - 247	96 - 97	Random Color (Uses CMY) Random color fast
	248 - 251	97 - 98	Random color medium
252 - 255	99 - 100	Random color slow	
7	0 - 2	0 - 1	<b>Beam Shaper</b> Open
	3 - 170	1 - 67	Beam shaper left → right
	171 - 255	67 - 100	Frost
8	0 - 255	0 - 100	<b>Zoom</b> Wide → narrow
9  (Mode 2 only)	0 - 2	0 - 1	<b>Speed</b> Tracking
	3 - 245	1 - 96	Fast → slow
	246 - 248	96 - 97	Tracking, no shortcuts (override SCUT ON)
	249 - 251	98 - 98	Tracking, shortcuts on (override SCUT OFF)
	252 - 255	99 - 100	Dimmer, CMY, and zoom: fast (no blackout), Color wheel and beam shaper: blackout while moving