

appendix a  
**DMX 512 PROTOCOL**

Channel	DMX Values	Percent	Effect
1	0 - 10	0 - 3	<b>Shutter, lamp power, reset</b> Blackout (shutter closed)
	11 - 19	4 - 7	Lamp power on, shutter open
	20 - 39	8 - 15	Shutter open
	40 - 100	16 - 39	Strobe, fast → slow
	101 - 109	40 - 43	Blackout
	110 - 130	44 - 51	Random strobe
	131 - 180	52 - 71	Random strobe w/music trigger
	181 - 239	72 - 94	Blackout
	240 - 248	95 - 97	Reset
	249 - 255	98 - 100	Lamp power off (Set color to green, gobo to position 9 and hold 5 seconds.)
2	0 - 8	0 - 3	<b>Colors</b> White
	9 - 17	4 - 7	White/pink
	18 - 26	8 - 10	Pink
	27 - 35	11 - 14	Pink/light green
	36 - 44	15 - 17	Light green
	45 - 53	18 - 21	Light green/yellow
	54 - 62	22 - 24	Yellow
	63 - 71	25 - 28	Yellow/magenta
	72 - 80	29 - 31	Magenta
	81 - 89	32 - 35	Magenta/light blue
	90 - 98	36 - 38	Light blue
	99 - 107	39 - 42	Light blue/green
	108 - 116	43 - 45	Green
	117 - 125	46 - 49	Green/orange
	126 - 134	50 - 53	Orange
	135 - 143	54 - 56	Orange/blue
	144 - 152	57 - 60	Blue
	153 - 161	61 - 63	Blue/deep orange
	162 - 170	64 - 67	Deep orange
	171 - 179	68 - 70	Deep orange/white
180 - 187	71 - 73	White	
188 - 237	74 - 93	Continuous rotation, slow → fast	
238 - 248	94 - 97	White	
249 - 255	98 - 100	Music trigger	

Channel	DMX Values	Percent	Effect
3	0 - 8 9 - 17 18 - 26 27 - 35 36 - 44 45 - 53 54 - 62 63 - 71 72 - 80 81 - 89 90 - 98 99 - 107 108 - 116 117 - 125 126 - 134 135 - 143 144 - 152 153 - 161 162 - 170 171 - 179 180 - 187 188 - 237 238 - 248 249 - 255	0 - 3 4 - 7 8 - 10 11 - 14 15 - 17 18 - 21 22 - 24 25 - 28 29 - 31 32 - 35 36 - 38 39 - 42 43 - 45 46 - 49 50 - 53 54 - 56 57 - 60 61 - 63 64 - 67 68 - 70 71 - 73 74 - 93 94 - 97 98 - 100	<b>Gobos</b> Open Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 8 Gobo 9 Gobo 10 Gobo 11 Gobo 12 Gobo 13 Gobo 14 Gobo 15 Gobo 16 Gobo 17 Gobo 18 Gobo 19 Open Continuous rotation, slow → fast Open Music trigger
4	0 - 2 3 - 89 90 - 176 177 - 209 210 - 255	0 - 1 2 - 35 36 - 69 70 - 82 83 - 100	<b>Mirror drum 1 &amp; synchronized rotation</b> No rotation Continuous ccw rotation, slow → fast Continuous cw rotation, fast → slow No rotation Music trigger, drum 1
5	0 - 2 3 - 89 90 - 176 177 - 209 210 - 255	0 - 1 2 - 35 36 - 69 70 - 82 83 - 100	<b>Mirror drum 2</b> No rotation Continuous ccw rotation, slow → fast Continuous cw rotation, fast → slow No rotation Music trigger, drum 2
6	0 - 19 20 - 39 40 - 59 60 - 79 80 - 99  100 - 194 195 - 224 225 - 255	0 - 7 8 - 15 16 - 23 24 - 31 32 - 39  40 - 76 77 - 88 89 - 100	<b>Synchronized rotation</b> Off 0° offset 90° offset 180° offset 270° offset  <b>Music trigger speed</b> Slow Medium Fast