

440P II BSW - DMX Protocol

Revision: A

Valid from firmware version: 1.0

DMX mode Standard (26ch)	Name	DMX value		DMX percentage		Function	Default DMX Value
1	Strobe/Shutter	0	31	0.0%	12.2%	Closed	0(0%)
		32	63	12.5%	24.7%	Open	
		64	127	25.1%	49.8%	Synchronous strobe from slow to fast	
		128	159	50.2%	62.4%	Open	
		160	223	62.7%	87.5%	Random strobe from slow to fast	
		224	255	87.8%	100.0%	Open	
2	Intensity	0	255	0.0%	100.0%	No light → Full light	0(0%)
3	Cyan	0	255	0.0%	100.0%	White → Full cyan	0(0%)
4	Magenta	0	255	0.0%	100.0%	White → Full magenta	0(0%)
5	Yellow	0	255	0.0%	100.0%	White → Full yellow	0(0%)
6	CMY color macro	0	15	0.0%	5.9%	CMY color macro off	0(0%)
		16	135	6.3%	52.9%	CMY synchronous color from slow to fast	
		136	255	53.3%	100.0%	CMY random color from slow to fast	
7	CTO	0	255	0.0%	100.0%	Warm → Cold	0(0%)
8	Color1 wheel	0	9	0.0%	3.5%	Open	0(0%)
		10	19	3.9%	7.5%	Color 1	
		20	29	7.8%	11.4%	Color 2	
		30	39	11.8%	15.3%	Color 3	
		40	49	15.7%	19.2%	Color 4	
		50	59	19.6%	23.1%	Color 5	
		60	69	23.5%	27.1%	Color 6	
		70	79	27.5%	31.0%	Color 7	
		80	89	31.4%	34.9%	Color 8	
		90	99	35.3%	38.8%	Color 9	
		100	109	39.2%	42.7%	Color 10	
		110	119	43.1%	46.7%	Color 11	
		120	127	47.1%	49.8%	Color 12	
		128	187	50.2%	73.3%	Color1 continous rotation CW from fast to slow	
188	195	73.7%	76.5%	Stop			
196	255	76.9%	100.0%	Color1 continous rotation CCW from slow to fast			
9	Reserved	0	255	100.0%	100.0%	Reserved	0(0%)
10	Gobo wheel (static)	0	8	0.0%	3.1%	Open gobo	0(0%)
		9	10	3.5%	3.9%	Gobo 1	
		11	12	4.3%	4.7%	Gobo 2	
		13	14	5.1%	5.5%	Gobo 3	
		15	16	5.9%	6.3%	Gobo 4	
		17	18	6.7%	7.1%	Gobo 5	
		19	20	7.5%	7.8%	Gobo 6	
		21	22	8.2%	8.6%	Gobo 7	
		23	24	9.0%	9.4%	Gobo 8	
		25	26	9.8%	10.2%	Gobo 9	
		27	28	10.6%	11.0%	Gobo 10	
		29	30	11.4%	11.8%	Gobo 11	
		31	32	12.2%	12.5%	Gobo 12	
		33	34	12.9%	13.3%	Gobo 13	
		35	36	13.7%	14.1%	Gobo 14	
		37	42	14.5%	16.5%	Gobo 1 shake	
		43	48	16.9%	18.8%	Gobo 2 shake	
		49	54	19.2%	21.2%	Gobo 3 shake	
		55	60	21.6%	23.5%	Gobo 4 shake	
		61	66	23.9%	25.9%	Gobo 5 shake	
		67	72	26.3%	28.2%	Gobo 6 shake	
		73	78	28.6%	30.6%	Gobo 7 shake	
		79	84	31.0%	32.9%	Gobo 8 shake	
		85	90	33.3%	35.3%	Gobo 9 shake	
91	96	35.7%	37.6%	Gobo 10 shake			
97	102	38.0%	40.0%	Gobo 11 shake			
103	108	40.4%	42.4%	Gobo 12 shake			
109	114	42.7%	44.7%	Gobo 13 shake			
115	127	45.1%	49.8%	Gobo 14 shake			
128	187	50.2%	73.3%	Gobo wheel continous rotation CW from slow to fast			
188	195	73.7%	76.5%	Stop			
196	255	76.9%	100.0%	Gobo wheel continous rotation CCW from slow to fast			

11	Rotating gobo wheel	0	7	0.0%	2.7%	Open gobo	0(0%)
		8	12	3.1%	4.7%	Gobo 1	
		13	17	5.1%	6.7%	Gobo 2	
		18	22	7.1%	8.6%	Gobo 3	
		23	27	9.0%	10.6%	Gobo 4	
		28	32	11.0%	12.5%	Gobo 5	
		33	37	12.9%	14.5%	Gobo 6	
		38	42	14.9%	16.5%	Gobo 7	
		43	47	16.9%	18.4%	Gobo 8	
		48	57	18.8%	22.4%	Gobo 1 shake	
		58	67	22.7%	26.3%	Gobo 2 shake	
		68	77	26.7%	30.2%	Gobo 3 shake	
		78	87	30.6%	34.1%	Gobo 4 shake	
		88	97	34.5%	38.0%	Gobo 5 shake	
		98	107	38.4%	42.0%	Gobo 6 shake	
		108	117	42.4%	45.9%	Gobo 7 shake	
		118	127	46.3%	49.8%	Gobo 8 shake	
128	187	50.2%	73.3%	Gobo wheel continous rotation CW from slow to fast			
188	195	73.7%	76.5%	Stop			
196	255	76.9%	100.0%	Gobo wheel continous rotation CCW from slow to fast			
12	Gobo rotating/positioning gobo wheel 2	0	127	0.0%	49.8%	Gobo rotation positioning	0(0%)
		128	187	50.2%	73.3%	Gobo continous rotation CW from slow to fast	
		188	195	73.7%	76.5%	Stop	
		196	255	76.9%	100.0%	Gobo continous rotation CCW from slow to fast	
13		0	65535	0.0%	100.0%	Gobo rotation/positioning, fine (LSB)	
14	Focus	0	255	0.0%	100.0%	Near → Far	0(0%)
15	Zoom	0	255	0.0%	100.0%	Narrow → Wide	0(0%)
16	Prism1	0	31	0.0%	12.2%	Off	0(0%)
		32	255	12.5%	100.0%	On	
17	Prism1 rotation	0	127	0.0%	49.8%	Prism indexed	0(0%)
		128	187	50.2%	73.3%	Prism continous rotation CW from slow to fast	
		188	195	73.7%	76.5%	Stop	
		196	255	76.9%	100.0%	Prism continous rotation CCW from slow to fast	
18	Prism2	0	31	0.0%	12.2%	Off	0(0%)
		32	255	12.5%	100.0%	On	
19	Prism2 rotation	0	127	0.0%	49.8%	Prism indexed	0(0%)
		128	187	50.2%	73.3%	Prism continous rotation CW from slow to fast	
		188	195	73.7%	76.5%	Stop	
		196	255	76.9%	100.0%	Prism continous rotation CCW from slow to fast	
20	Frost	0	127	0.0%	49.8%	Off	0(0%)
		128	255	50.2%	100.0%	On	
21	Pan	0	255	0.0%	100.0%	Pan	0(0%)
		0	65535	0.0%	100.0%	Pan, fine (LSB)	
23	Tilt	0	255	0.0%	100.0%	Tilt	46(18.0%)
		0	65535	0.0%	100.0%	Tilt, fine (LSB)	
25	Scan speed	0	255	0.0%	100.0%	Scan speed from fast to slow	0(0%)
26	Special controls	0	9	0.0%	3.5%	No function	0(0%)
		10	19	3.9%	7.5%	Open light after 5 seconds	
		20	29	7.8%	11.4%	Close light after 5 seconds	
		30	39	11.8%	15.3%	Color wheel half color switch	
		40	59	15.7%	23.1%	Reserved	
		60	69	23.5%	27.1%	Reset all motor after 5 seconds	
		70	79	27.5%	31.0%	Scan motor reset after 5 seconds	
		80	89	31.4%	34.9%	All color motor reset after 5 seconds	
		90	99	35.3%	38.8%	All gobo motor reset after 5 seconds	
		100	109	39.2%	42.7%	All strobe motor reset after 5 seconds	
		110	119	43.1%	46.7%	Other motor reset after 5 seconds	
		120	129	47.1%	50.6%	Built-in program 1	
		130	139	51.0%	54.5%	Built-in program 2	
		140	149	54.9%	58.4%	Built-in program 3	
		150	159	58.8%	62.4%	Built-in program 4	
		160	169	62.7%	66.3%	Built-in program 5	
		170	179	66.7%	70.2%	Built-in program 6	
		180	189	70.6%	74.1%	Built-in program 7	
		190	199	74.5%	78.0%	Built-in program 8	
		200	209	78.4%	82.0%	Built-in program 9	
210	219	82.4%	85.9%	Built-in program 10			
220	255	86.3%	100.0%	Reserved			