

TUNGDOU

TD-371 BSW - DMX Protocol

Revision: A

Valid from firmware version: 1.0

DMX mode	Name	DMX value		DMX percentage		Function	Default DMX Value
Standard (19ch)							
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		0	65535	0.0%	100.0%	Intensity fade, fine (LSB)	
4	Color wheel	0	17	0.0%	6.7%	Open	0(0%)
		18	27	7.1%	10.6%	Color 1	
		28	37	11.0%	14.5%	Color 2	
		38	47	14.9%	18.4%	Color 3	
		48	57	18.8%	22.4%	Color 4	
		58	67	22.7%	26.3%	Color 5	
		68	77	26.7%	30.2%	Color 6	
		78	87	30.6%	34.1%	Color 7	
		88	97	34.5%	38.0%	Color 8	
		98	107	38.4%	42.0%	Color 9	
		108	117	42.4%	45.9%	Color 10	
		118	127	46.3%	49.8%	Color 11	
		128	187	50.2%	73.3%	Color1 continous rotation CW from slow to fast	
		188	195	73.7%	76.5%	Stop	
196	255	76.9%	100.0%	Color1 continous contrarotation CCW from slow to fast			
5	Gobo wheel (static)	0	17	0.0%	6.7%	Open gobo	0(0%)
		18	21	7.1%	8.2%	Gobo 1	
		22	25	8.6%	9.8%	Gobo 2	
		26	29	10.2%	11.4%	Gobo 3	
		30	33	11.8%	12.9%	Gobo 4	
		34	37	13.3%	14.5%	Gobo 5	
		38	41	14.9%	16.1%	Gobo 6	
		42	45	16.5%	17.6%	Gobo 7	
		46	49	18.0%	19.2%	Gobo 8	
		50	53	19.6%	20.8%	Gobo 9	
		54	57	21.2%	22.4%	Open gobo	
		58	64	22.7%	25.1%	Gobo 1 shake	
		65	71	25.5%	27.8%	Gobo 2 shake	
		72	78	28.2%	30.6%	Gobo 3 shake	
		79	85	31.0%	33.3%	Gobo 4 shake	
		86	92	33.7%	36.1%	Gobo 5 shake	
		93	99	36.5%	38.8%	Gobo 6 shake	
		100	106	39.2%	41.6%	Gobo 7 shake	
		107	113	42.0%	44.3%	Gobo 8 shake	
		114	120	44.7%	47.1%	Gobo 9 shake	
121	127	47.5%	49.8%	Open gobo			
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 contrarotation CCW from slow to fast			
6	Rotating gobo wheel	0	15	0.0%	5.9%	Open gobo	0(0%)
		16	22	6.3%	8.6%	Gobo 1	
		23	29	9.0%	11.4%	Gobo 2	
		30	36	11.8%	14.1%	Gobo 3	
		37	43	14.5%	16.9%	Gobo 4	
		44	50	17.3%	19.6%	Gobo 5	
		51	57	20.0%	22.4%	Gobo 6	
		58	64	22.7%	25.1%	Gobo 7	
		65	71	25.5%	27.8%	Gobo 8	
		72	78	28.2%	30.6%	Gobo 1 shake	
		79	85	31.0%	33.3%	Gobo 2 shake	
		86	92	33.7%	36.1%	Gobo 3 shake	
		93	99	36.5%	38.8%	Gobo 4 shake	
		100	106	39.2%	41.6%	Gobo 5 shake	
		107	113	42.0%	44.3%	Gobo 6 shake	
		114	120	44.7%	47.1%	Gobo 7 shake	
		121	127	47.5%	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 contrarotation CCW from slow to fast			
7	Gobo rotating/positioning gobo wheel 1	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 contrarotation CCW from slow to fast	
8	Focus	0	255	0.0%	100.0%	Near → Far	0(0%)
9	Zoom	0	255	0.0%	100.0%	Near → Far	0(0%)
10	Prism plate1	0	31	0.0%	12.2%	Off	0(0%)
		32	255	12.5%	100.0%	Prism On	
11	Prism plate 1 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 contrarotation CCW from slow to fast	
12	Prism plate 2	0	31	0.0%	12.2%	Off	0(0%)
		32	255	12.5%	100.0%	Prism On	
13	Prism plate2 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 continuous contrarotation CCW from slow to fast	
14	Frost	0	31	0.0%	12.2%	Off	0(0%)
		32	255	12.5%	100.0%	On	
15	Pan	0	255	0.0%	100.0%	Pan	0(0%)
16		0	65535	0.0%	100.0%	Pan, fine (LSB)	
17	Tilt	0	255	0.0%	100.0%	Tilt	46(18.0%)
18		0	65535	0.0%	100.0%	Tilt, fine (LSB)	
19	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	49	15.7%	19.2%	Color wheel random positioning	
		50	59	19.6%	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			