

DMX Channel Assignments and Values

Color Macro Chart

Value	Percent/Setting	Value	Percent/Setting
000 ⇔ 010	No function	206 ⇔ 210	Color 2
011 ⇔ 030	Red 100%, green 0–100%	211 ⇔ 215	Color 3
031 ⇔ 050	Red 100–0%, green 100%	216 ⇔ 220	Color 4
051 ⇔ 070	Green 100%, blue 0–100%	221 ⇔ 225	Color 5
071 ⇔ 090	Green 100–0%, blue 100%	226 ⇔ 230	Color 6
091 ⇔ 110	Red 0–100%, blue 100%	231 ⇔ 235	Color 7
111 ⇔ 130	Red 100% blue 100–0%	236 ⇔ 240	Color 8
131 ⇔ 150	Red 100%, green and blue 0–100%	241 ⇔ 245	Color 9
151 ⇔ 170	Red and green 100–0%, blue 100%	246 ⇔ 250	Color 10
171 ⇔ 200	Red, green, and blue 100%	251 ⇔ 255	Color 11
201 ⇔ 205	Color 1		

Color Temperature Chart

Value	Percent/Setting	Actual Temperature	Red	Green	Blue	White
000 ⇔ 005	No function	–	–	–	–	–
006 ⇔ 025	2800K	2780K	078	035	000	255
026 ⇔ 050	3200K	3184K	057	049	008	255
051 ⇔ 075	3500K	3510K	039	056	013	255
076 ⇔ 100	4000K	3998K	053	093	028	255
101 ⇔ 125	4500K	4527K	040	107	039	255
126 ⇔ 150	5000K	4005K	042	128	052	255
151 ⇔ 175	5600K	5651K	004	115	058	255
176 ⇔ 200	6000K	6022K	005	134	065	255
201 ⇔ 225	6500K	6532K	011	141	079	255
226 ⇔ 255	No function	–	–	–	–	–

Control Chart

Value	Percent/Setting	Value	Percent/Setting
000 ⇔ 010	No function	090 ⇔ 094	Dimmer speed mode off (immediate)
011 ⇔ 029	Reserved for future use	095 ⇔ 099	Dimmer speed mode 1 (fastest)
030 ⇔ 034	1000 Hz Pulse Width Modulation*	100 ⇔ 104	Dimmer speed mode 2 (medium)
035 ⇔ 039	2000 Hz Pulse Width Modulation*	105 ⇔ 109	Dimmer speed mode 3 (slowest)
040 ⇔ 044	3000 Hz Pulse Width Modulation*	110 ⇔ 149	Reserved for future use
045 ⇔ 049	4000 Hz Pulse Width Modulation*	150 ⇔ 154	Run time mode off
050 ⇔ 054	6000 Hz Pulse Width Modulation*	155 ⇔ 159	5 hour run time mode
055 ⇔ 059	25 KHz Pulse Width Modulation*	160 ⇔ 164	8 hour run time mode
060 ⇔ 069	Reserved for future use	165 ⇔ 169	12 hour run time mode
070 ⇔ 074	S-Curve dimmer curve*	170 ⇔ 174	18 hour run time mode
075 ⇔ 079	Linear dimmer curve*	175 ⇔ 249	Reserved for future use
080 ⇔ 084	Square dimmer curve*	250 ⇔ 255	No function
085 ⇔ 089	Inverse square dimmer curve*		*Hold for 5 seconds

12 Ch

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Fine dimmer	000 ⇔ 255	0–100%
3	Strobe	000 ⇔ 010	No function
		011 ⇔ 255	Strobe, slow to fast
4	Red	000 ⇔ 255	0–100%
5	Green	000 ⇔ 255	0–100%
6	Blue	000 ⇔ 255	0–100%
7	White	000 ⇔ 255	0–100%
8	Color macro	000 ⇔ 255	See the Color Macro Chart
9	Color temperature	000 ⇔ 255	See the Color Temperature Chart
10	Automatic program	000 ⇔ 010	No function
		011 ⇔ 060	Automatic program 1
		061 ⇔ 110	Automatic program 2
		111 ⇔ 160	Automatic program 3
		161 ⇔ 210	Automatic program 4
		211 ⇔ 255	Automatic program 5 (cycle 1–4)
11	Automatic program speed	000 ⇔ 255	Program speed, slow to fast
12	Control	000 ⇔ 255	See the Control Chart

8 Ch

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Fine dimmer	000 ⇔ 255	0–100%
3	Strobe	000 ⇔ 010	No function
		011 ⇔ 255	Strobe, slow to fast
4	Red	000 ⇔ 255	0–100%
5	Green	000 ⇔ 255	0–100%
6	Blue	000 ⇔ 255	0–100%
7	White	000 ⇔ 255	0–100%
8	Control	000 ⇔ 255	See the Control Chart

5 Ch

Channel	Function	Value	Percent/Setting
1	Red	000 ⇔ 255	0–100%
2	Green	000 ⇔ 255	0–100%
3	Blue	000 ⇔ 255	0–100%
4	White	000 ⇔ 255	0–100%
5	Control	000 ⇔ 255	See the Control Chart