

### DMX Values

#### 97CH

Channel	Function	Value	Percent/Setting
1	Tilt	000 ⇔ 255	0–100%
2	Fine tilt	000 ⇔ 255	0–100%
3	Master dimmer	000 ⇔ 255	0–100%
4	Plate dimmer	000 ⇔ 255	0–100%
5	Beam dimmer	000 ⇔ 255	0–100%
6	Plate flash duration	000 ⇔ 009	Classic shutter mode: disables duration control
		010 ⇔ 250	Slow to fast
		251 ⇔ 255	100% On, no flash/strobe
7	Plate flash rate	000 ⇔ 009	100%
		010 ⇔ 250	Slow to fast
		251 ⇔ 255	100%
8	Beam flash duration	000 ⇔ 009	Classic shutter mode: disables duration control
		010 ⇔ 250	Slow to fast
		251 ⇔ 255	100% On, no flash/strobe
9	Beam flash rate	000 ⇔ 009	100%
		010 ⇔ 250	Slow to fast
		251 ⇔ 255	100% on
10	Plate pixel 1 red	000 ⇔ 255	0–100%
11	Plate pixel 1 green	000 ⇔ 255	0–100%
12	Plate pixel 1 blue	000 ⇔ 255	0–100%
13	Plate pixel 2 red	000 ⇔ 255	0–100%
14	Plate pixel 2 green	000 ⇔ 255	0–100%
15	Plate pixel 2 blue	000 ⇔ 255	0–100%
16	Plate pixel 3 red	000 ⇔ 255	0–100%
17	Plate pixel 3 green	000 ⇔ 255	0–100%
18	Plate pixel 3 blue	000 ⇔ 255	0–100%
19	Plate pixel 4 red	000 ⇔ 255	0–100%
20	Plate pixel 4 green	000 ⇔ 255	0–100%
21	Plate pixel 4 blue	000 ⇔ 255	0–100%
22	Plate pixel 5 red	000 ⇔ 255	0–100%
23	Plate pixel 5 green	000 ⇔ 255	0–100%
24	Plate pixel 5 blue	000 ⇔ 255	0–100%
25	Plate pixel 6 red	000 ⇔ 255	0–100%
26	Plate pixel 6 green	000 ⇔ 255	0–100%
27	Plate pixel 6 blue	000 ⇔ 255	0–100%
28	Plate pixel 7 red	000 ⇔ 255	0–100%
29	Plate pixel 7 green	000 ⇔ 255	0–100%
30	Plate pixel 7 blue	000 ⇔ 255	0–100%
31	Plate pixel 8 red	000 ⇔ 255	0–100%
32	Plate pixel 8 green	000 ⇔ 255	0–100%
33	Plate pixel 8 blue	000 ⇔ 255	0–100%
34	Plate pixel 9 red	000 ⇔ 255	0–100%
35	Plate pixel 9 green	000 ⇔ 255	0–100%
36	Plate pixel 9 blue	000 ⇔ 255	0–100%
37	Plate pixel 10 red	000 ⇔ 255	0–100%
38	Plate pixel 10 green	000 ⇔ 255	0–100%
39	Plate pixel 10 blue	000 ⇔ 255	0–100%
40	Plate pixel 11 red	000 ⇔ 255	0–100%

Channel	Function	Value	Percent/Setting
41	Plate pixel 11 green	000 ⇄ 255	0–100%
42	Plate pixel 11 blue	000 ⇄ 255	0–100%
43	Plate pixel 12 red	000 ⇄ 255	0–100%
44	Plate pixel 12 green	000 ⇄ 255	0–100%
45	Plate pixel 12 blue	000 ⇄ 255	0–100%
46	Plate pixel 13 red	000 ⇄ 255	0–100%
47	Plate pixel 13 green	000 ⇄ 255	0–100%
48	Plate pixel 13 blue	000 ⇄ 255	0–100%
49	Plate pixel 14 red	000 ⇄ 255	0–100%
50	Plate pixel 14 green	000 ⇄ 255	0–100%
51	Plate pixel 14 blue	000 ⇄ 255	0–100%
52	Beam pixel 1	000 ⇄ 255	0–100%
53	Beam pixel 2	000 ⇄ 255	0–100%
54	Beam pixel 3	000 ⇄ 255	0–100%
55	Beam pixel 4	000 ⇄ 255	0–100%
56	Beam pixel 5	000 ⇄ 255	0–100%
57	Beam pixel 6	000 ⇄ 255	0–100%
58	Beam pixel 7	000 ⇄ 255	0–100%
59	Beam pixel 8	000 ⇄ 255	0–100%
60	Beam pixel 9	000 ⇄ 255	0–100%
61	Beam pixel 10	000 ⇄ 255	0–100%
62	Beam pixel 11	000 ⇄ 255	0–100%
63	Beam pixel 12	000 ⇄ 255	0–100%
64	Beam pixel 13	000 ⇄ 255	0–100%
65	Beam pixel 14	000 ⇄ 255	0–100%
66	Beam pixel 15	000 ⇄ 255	0–100%
67	Beam pixel 16	000 ⇄ 255	0–100%
68	Beam pixel 17	000 ⇄ 255	0–100%
69	Beam pixel 18	000 ⇄ 255	0–100%
70	Beam pixel 19	000 ⇄ 255	0–100%
71	Beam pixel 20	000 ⇄ 255	0–100%
72	Beam pixel 21	000 ⇄ 255	0–100%
73	Beam pixel 22	000 ⇄ 255	0–100%
74	Beam pixel 23	000 ⇄ 255	0–100%
75	Beam pixel 24	000 ⇄ 255	0–100%
76	Beam pixel 25	000 ⇄ 255	0–100%
77	Beam pixel 26	000 ⇄ 255	0–100%
78	Beam pixel 27	000 ⇄ 255	0–100%
79	Beam pixel 28	000 ⇄ 255	0–100%
80	Beam FX	000 ⇄ 005	No function
		006 ⇄ 042	Ramp up
		043 ⇄ 085	Ramp down
		086 ⇄ 128	Ramp up-down
		129 ⇄ 171	Random
		172 ⇄ 214	Lightning
		215 ⇄ 255	Spikes

Channel	Function	Value	Percent/Setting
81	Plates foreground	000 ⇔ 000	No function
		001 ⇔ 002	White (2700K)
		003 ⇔ 004	White (3200K)
		005 ⇔ 006	White (4200K)
		007 ⇔ 008	White (5600K)
		009 ⇔ 010	White (8000K)
		011	Blue R: 0 G: 0 B: 255 W: 0
		012 ⇔ 048	Green+ / Blue R: 0 G: + B: 255 W: 0
		049	Cyan R: 0 G: 255 B: 255 W: 0
		050 ⇔ 086	Green / Blue- R: 0 G: 255 B: - W: 0
		087	Green R: 0 G: 255 B: 0 W: 0
		088 ⇔ 124	Red+ / Green R: + G: 255 B: 0 W: 0
		125	Yellow R: 255 G: 255 B: 0 W: 0
		126 ⇔ 162	Red / Green- R: 255 G: - B: 0 W: 0
		163	Red R: 255 G: 0 B: 0 W: 0
		164 ⇔ 200	Red / Blue+ R: 255 G: 0 B: + W: 0
		201	Magenta R: 255 G: 0 B: 255 W: 0
		202 ⇔ 238	Red- / Blue R: - G: 0 B: 255 W: 0
		239	Blue R: 0 G: 0 B: 255 W: 0
		240 ⇔ 247	Color index, fast to slow
248 ⇔ 255	Color snap, fast to slow		
82	Plate foreground dimmer	000 ⇔ 255	0–100%
83	Plates background	000 ⇔ 000	No function
		001 ⇔ 002	White (2700K)
		003 ⇔ 004	White (3200K)
		005 ⇔ 006	White (4200K)
		007 ⇔ 008	White (5600K)
		009 ⇔ 010	White (8000K)
		011	Blue R: 0 G: 0 B: 255 W: 0
		012 ⇔ 048	Green+ / Blue R: 0 G: + B: 255 W: 0
		049	Cyan R: 0 G: 255 B: 255 W: 0
		050 ⇔ 086	Green / Blue- R: 0 G: 255 B: - W: 0
		087	Green R: 0 G: 255 B: 0 W: 0
		088 ⇔ 124	Red+ / Green R: + G: 255 B: 0 W: 0
		125	Yellow R: 255 G: 255 B: 0 W: 0
		126 ⇔ 162	Red / Green- R: 255 G: - B: 0 W: 0
		163	Red R: 255 G: 0 B: 0 W: 0
		164 ⇔ 200	Red / Blue+ R: 255 G: 0 B: + W: 0
		201	Magenta R: 255 G: 0 B: 255 W: 0
		202 ⇔ 238	Red- / Blue R: - G: 0 B: 255 W: 0
		239	Blue R: 0 G: 0 B: 255 W: 0
		240 ⇔ 247	Color index, fast to slow
248 ⇔ 255	Color snap, fast to slow		
84	Plate background dimmer	000 ⇔ 255	0–100%
85	Plate 1 (pixels 1–7) FX select	000 ⇔ 002	Plate FX All select (all on)
		003 ⇔ 255	see <a href="#">Plate Patterns</a>
86	Plate 1 (pixels 1–7) FX movement speed & direction	000 ⇔ 005	No function
		006 ⇔ 124	Left to right, fast to slow
		125 ⇔ 130	No function
		131 ⇔ 249	Right to left, slow to fast
		250 ⇔ 255	No function

Channel	Function	Value	Percent/Setting
87	Plate 1 (pixels 1–7) FX crossfade	000 ⇔ 002 003 ⇔ 255	Snap from cell to cell Fade duration: short to long
88	Plate 2 (pixels 8–14) FX select	000 ⇔ 002 003 ⇔ 255	Plate FX All select (all on) see <a href="#">Plate Patterns</a>
89	Plate 2 (pixels 8–14) FX movement speed & direction	000 ⇔ 005 006 ⇔ 124 125 ⇔ 130 131 ⇔ 249 250 ⇔ 255	No function Left to right, fast to slow No function Right to left, slow to fast No function
90	Plate 2 (pixels 8–14) FX crossfade	000 ⇔ 002 003 ⇔ 255	Snap from cell to cell Fade duration: short to long
91	Beam 1 (pixels 1–14) FX select	000 ⇔ 002 003 ⇔ 255	Beam FX All select (all on) see <a href="#">Beam Patterns</a>
92	Beam 1 (pixels 1–14) FX movement speed & direction	000 ⇔ 005 006 ⇔ 124 125 ⇔ 130 131 ⇔ 249 250 ⇔ 255	No function Left to right, fast to slow No function Right to left, slow to fast No function
93	Beam 1 (pixels 1–14) FX crossfade	000 ⇔ 002 003 ⇔ 255	Snap from cell to cell Fade duration: short to long
94	Beam 2 (pixels 15–28) FX select	000 ⇔ 002 003 ⇔ 255	Beam FX All select (all on) see <a href="#">Beam Patterns</a>
95	Beam 2 (pixels 15–28) FX movement speed & direction	000 ⇔ 005 006 ⇔ 124 125 ⇔ 130 131 ⇔ 249 250 ⇔ 255	No function Left to right, fast to slow No function Right to left, slow to fast No function
96	Beam 2 (pixels 15–28) FX crossfade	000 ⇔ 002 003 ⇔ 255	Snap from cell to cell Fade duration: short to long

Channel	Function	Value	Percent/Setting
97	Control*	000 ⇔ 005	No function
		006 ⇔ 010	Off (dimmer mode)
		011 ⇔ 015	Dimmer 1 (Dimmer Mode)
		016 ⇔ 020	Dimmer 2 (Dimmer Mode)
		021 ⇔ 025	Dimmer 3 (Dimmer Mode)
		026 ⇔ 030	600 Hz
		031 ⇔ 035	1200 Hz
		036 ⇔ 040	2000 Hz
		041 ⇔ 045	4000 Hz
		046 ⇔ 050	6000 Hz
		051 ⇔ 055	25 KHz
		056 ⇔ 060	Auto (Fan mode)
		061 ⇔ 065	On (Fan mode)
		066 ⇔ 070	Tilt reset
		071 ⇔ 075	Plate1 invert off
		076 ⇔ 080	Plate1 invert on
		081 ⇔ 085	Plate2 invert off
		086 ⇔ 090	Plate2 invert on
		091 ⇔ 095	Beam1 invert off
		096 ⇔ 100	Beam1 invert on
		101 ⇔ 105	Beam2 invert off
		106 ⇔ 110	Beam2 invert on
		111 ⇔ 115	Plate swap on
		116 ⇔ 120	Plate swap off
		121 ⇔ 125	Beam swap on
		126 ⇔ 130	Beam swap off
		131 ⇔ 140	No function
		141 ⇔ 150	FX pattern priority
		151 ⇔ 155	Color mix HTP on
		156 ⇔ 160	Color mix HTP off
161 ⇔ 170	Color priority		
171 ⇔ 255	No Function		



\*Hold desired dimmer speed value for 3 seconds, then release. This changes the dimmer speed setting in the menu.

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Channel	Function	Value	Percent/Setting
1	Tilt	000 ⇄ 255	0–100%
2	Fine tilt	000 ⇄ 255	0–100%
3	Dimmer	000 ⇄ 255	0–100%
4	Strobe	000 ⇄ 009	Open
		010 ⇄ 079	Strobe, slow to fast
		080 ⇄ 149	Pulse, slow to fast
		150 ⇄ 219	Random strobe, slow to fast
		220 ⇄ 255	Open
5	Plate pixel 1 red	000 ⇄ 255	0–100%
6	Plate pixel 1 green	000 ⇄ 255	0–100%
7	Plate pixel 1 blue	000 ⇄ 255	0–100%
8	Plate pixel 2 red	000 ⇄ 255	0–100%
9	Plate pixel 2 green	000 ⇄ 255	0–100%
10	Plate pixel 2 blue	000 ⇄ 255	0–100%
11	Plate pixel 3 red	000 ⇄ 255	0–100%
12	Plate pixel 3 green	000 ⇄ 255	0–100%
13	Plate pixel 3 blue	000 ⇄ 255	0–100%
14	Plate pixel 4 red	000 ⇄ 255	0–100%
15	Plate pixel 4 green	000 ⇄ 255	0–100%
16	Plate pixel 4 blue	000 ⇄ 255	0–100%
17	Plate pixel 5 red	000 ⇄ 255	0–100%
18	Plate pixel 5 green	000 ⇄ 255	0–100%
19	Plate pixel 5 blue	000 ⇄ 255	0–100%
20	Plate pixel 6 red	000 ⇄ 255	0–100%
21	Plate pixel 6 green	000 ⇄ 255	0–100%
22	Plate pixel 6 blue	000 ⇄ 255	0–100%
23	Plate pixel 7 red	000 ⇄ 255	0–100%
24	Plate pixel 7 green	000 ⇄ 255	0–100%
25	Plate pixel 7 blue	000 ⇄ 255	0–100%
26	Plate pixel 8 red	000 ⇄ 255	0–100%
27	Plate pixel 8 green	000 ⇄ 255	0–100%
28	Plate pixel 8 blue	000 ⇄ 255	0–100%
29	Plate pixel 9 red	000 ⇄ 255	0–100%
30	Plate pixel 9 green	000 ⇄ 255	0–100%
31	Plate pixel 9 blue	000 ⇄ 255	0–100%
32	Plate pixel 10 red	000 ⇄ 255	0–100%
33	Plate pixel 10 green	000 ⇄ 255	0–100%
34	Plate pixel 10 blue	000 ⇄ 255	0–100%
35	Plate pixel 11 red	000 ⇄ 255	0–100%
36	Plate pixel 11 green	000 ⇄ 255	0–100%
37	Plate pixel 11 blue	000 ⇄ 255	0–100%
38	Plate pixel 12 red	000 ⇄ 255	0–100%
39	Plate pixel 12 green	000 ⇄ 255	0–100%
40	Plate pixel 12 blue	000 ⇄ 255	0–100%
41	Plate pixel 13 red	000 ⇄ 255	0–100%
42	Plate pixel 13 green	000 ⇄ 255	0–100%
43	Plate pixel 13 blue	000 ⇄ 255	0–100%
44	Plate pixel 14 red	000 ⇄ 255	0–100%
45	Plate pixel 14 green	000 ⇄ 255	0–100%
46	Plate pixel 14 blue	000 ⇄ 255	0–100%

Channel	Function	Value	Percent/Setting
47	Beam pixel 1	000 ⇔ 255	0–100%
48	Beam pixel 2	000 ⇔ 255	0–100%
49	Beam pixel 3	000 ⇔ 255	0–100%
50	Beam pixel 4	000 ⇔ 255	0–100%
51	Beam pixel 5	000 ⇔ 255	0–100%
52	Beam pixel 6	000 ⇔ 255	0–100%
53	Beam pixel 7	000 ⇔ 255	0–100%
54	Beam pixel 8	000 ⇔ 255	0–100%
55	Beam pixel 9	000 ⇔ 255	0–100%
56	Beam pixel 10	000 ⇔ 255	0–100%
57	Beam pixel 11	000 ⇔ 255	0–100%
58	Beam pixel 12	000 ⇔ 255	0–100%
59	Beam pixel 13	000 ⇔ 255	0–100%
60	Beam pixel 14	000 ⇔ 255	0–100%
61	Beam pixel 15	000 ⇔ 255	0–100%
62	Beam pixel 16	000 ⇔ 255	0–100%
63	Beam pixel 17	000 ⇔ 255	0–100%
64	Beam pixel 18	000 ⇔ 255	0–100%
65	Beam pixel 19	000 ⇔ 255	0–100%
66	Beam pixel 20	000 ⇔ 255	0–100%
67	Beam pixel 21	000 ⇔ 255	0–100%
68	Beam pixel 22	000 ⇔ 255	0–100%
69	Beam pixel 23	000 ⇔ 255	0–100%
70	Beam pixel 24	000 ⇔ 255	0–100%
71	Beam pixel 25	000 ⇔ 255	0–100%
72	Beam pixel 26	000 ⇔ 255	0–100%
73	Beam pixel 27	000 ⇔ 255	0–100%
74	Beam pixel 28	000 ⇔ 255	0–100%

**47CH**

Channel	Function	Value	Percent/Setting
1	Tilt	000 ⇄ 255	0–100%
2	Fine tilt	000 ⇄ 255	0–100%
3	Master dimmer	000 ⇄ 255	0–100%
4	Plate dimmer	000 ⇄ 255	0–100%
5	Beam dimmer	000 ⇄ 255	0–100%
6	Plate flash duration	000 ⇄ 009	Classic shutter mode: disables duration control
		010 ⇄ 250	Slow to fast
		251 ⇄ 255	100% On, no flash/strobe
7	Plate flash rate	000 ⇄ 009	100% On, no flash/strobe
		010 ⇄ 250	Slow to fast
		251 ⇄ 255	100% On, no flash/strobe
8	Beam flash duration	000 ⇄ 009	Classic shutter mode: disables duration control
		010 ⇄ 250	Slow to fast
		251 ⇄ 255	100% On, no flash/strobe
9	Beam flash rate	000 ⇄ 009	100% On, no flash/strobe
		010 ⇄ 250	Slow to fast
		251 ⇄ 255	100% On, no flash/strobe
10	Plate Invert	000 ⇄ 005	Normal alignment
		006 ⇄ 124	Invert Plate 1 and Plate 2
		125 ⇄ 130	Invert Plate 1, Plate 2 normal
		131 ⇄ 249	Invert Plate 2, Plate 1 normal
		250 ⇄ 255	No function
11	Beam Invert	000 ⇄ 005	Normal alignment
		006 ⇄ 124	Invert Beam 1 and Beam 2
		125 ⇄ 130	Invert Beam 1, Beam 2 normal
		131 ⇄ 249	Invert Beam 2, Beam 1 normal
		250 ⇄ 255	No function
12	Plate Pixel 1 + 8 Red	000 ⇄ 255	0–100%
13	Plate Pixel 1 + 8 Green	000 ⇄ 255	0–100%
14	Plate Pixel 1 + 8 Blue	000 ⇄ 255	0–100%
15	Plate Pixel 2 + 9 Red	000 ⇄ 255	0–100%
16	Plate Pixel 2 + 9 Green	000 ⇄ 255	0–100%
17	Plate Pixel 2 + 9 Blue	000 ⇄ 255	0–100%
18	Plate Pixel 3 + 10 Red	000 ⇄ 255	0–100%
19	Plate Pixel 3 + 10 Green	000 ⇄ 255	0–100%
20	Plate Pixel 3 + 10 Blue	000 ⇄ 255	0–100%
21	Plate Pixel 4 + 11 Red	000 ⇄ 255	0–100%
22	Plate Pixel 4 + 11 Green	000 ⇄ 255	0–100%
23	Plate Pixel 4 + 11 Blue	000 ⇄ 255	0–100%
24	Plate Pixel 5 + 12 Red	000 ⇄ 255	0–100%
25	Plate Pixel 5 + 12 Green	000 ⇄ 255	0–100%
26	Plate Pixel 5 + 12 Blue	000 ⇄ 255	0–100%
27	Plate Pixel 6 + 13 Red	000 ⇄ 255	0–100%
28	Plate Pixel 6 + 13 Green	000 ⇄ 255	0–100%
29	Plate Pixel 6 + 13 Blue	000 ⇄ 255	0–100%
30	Plate Pixel 7 + 14 Red	000 ⇄ 255	0–100%
31	Plate Pixel 7 + 14 Green	000 ⇄ 255	0–100%
32	Plate Pixel 7 + 14 Blue	000 ⇄ 255	0–100%
33	Beam Pixel 1 + 15	000 ⇄ 255	0–100%
34	Beam Pixel 2 + 16	000 ⇄ 255	0–100%



Channel	Function	Value	Percent/Setting
35	Beam Pixel 3 + 17	000 ⇔ 255	0–100%
36	Beam Pixel 4 + 18	000 ⇔ 255	0–100%
37	Beam Pixel 5 + 19	000 ⇔ 255	0–100%
38	Beam Pixel 6 + 20	000 ⇔ 255	0–100%
39	Beam Pixel 7 + 21	000 ⇔ 255	0–100%
40	Beam Pixel 8 + 22	000 ⇔ 255	0–100%
41	Beam Pixel 9 + 23	000 ⇔ 255	0–100%
42	Beam Pixel 10 + 24	000 ⇔ 255	0–100%
43	Beam Pixel 11 + 25	000 ⇔ 255	0–100%
44	Beam Pixel 12 + 26	000 ⇔ 255	0–100%
45	Beam Pixel 13 + 27	000 ⇔ 255	0–100%
46	Beam Pixel 14 + 28	000 ⇔ 255	0–100%
47	Control*	000 ⇔ 005	No function
		006 ⇔ 010	Off (dimmer mode)
		011 ⇔ 015	Dimmer 1 (dimmer mode)
		016 ⇔ 020	Dimmer 2 (dimmer mode)
		021 ⇔ 025	Dimmer 3 (dimmer mode)
		026 ⇔ 030	600 Hz
		031 ⇔ 035	1200 Hz
		036 ⇔ 040	2000 Hz
		041 ⇔ 045	4000 Hz
		046 ⇔ 050	6000 Hz
		051 ⇔ 055	25KHz
		056 ⇔ 060	Auto (fan mode)
		061 ⇔ 065	On (fan mode)
		066 ⇔ 070	Tilt reset
		071 ⇔ 075	Plate 1 – invert off
		076 ⇔ 080	Plate 1– invert on
		081 ⇔ 085	Plate 2 – invert off
		086 ⇔ 090	Plate 2 – invert on
		091 ⇔ 095	Beam 1 – invert off
		096 ⇔ 100	Beam 1 – invert on
		101 ⇔ 105	Beam 2 – invert off
		106 ⇔ 110	Beam 2 – invert on
		111 ⇔ 115	Plate swap on
		116 ⇔ 120	Plate swap off
		121 ⇔ 125	Beam swap on
		126 ⇔ 130	Beam swap off
131 ⇔ 140	No function		
141 ⇔ 150	No function		
151 ⇔ 155	No function		
156 ⇔ 160	No function		
161 ⇔ 170	No function		
171 ⇔ 255	No function		



\*Hold desired dimmer speed value for 3 seconds, then release. This changes the dimmer speed setting in the menu.

30CH

Channel	Function	Value	Percent/Setting
1	Tilt	000 ⇄ 255	0–100%
2	Fine tilt	000 ⇄ 255	0–100%
3	Master dimmer	000 ⇄ 255	0–100%
4	Plate dimmer	000 ⇄ 255	0–100%
5	Beam dimmer	000 ⇄ 255	0–100%
6	Plate flash duration	000 ⇄ 009	Classic shutter mode: disables duration control
		010 ⇄ 250	Slow to fast
		251 ⇄ 255	100% On, no flash/strobe
7	Plate flash rate	000 ⇄ 009	100%
		010 ⇄ 250	Slow to fast
		251 ⇄ 255	100%
8	Beam flash duration	000 ⇄ 009	Classic shutter mode: disables duration control
		010 ⇄ 250	Slow to fast
		251 ⇄ 255	100% On, no flash/strobe
9	Beam flash rate	000 ⇄ 009	100%
		010 ⇄ 250	Slow to fast
		251 ⇄ 255	100% on
10	Plates red	000 ⇄ 255	0–100%
11	Plates green	000 ⇄ 255	0–100%
12	Plates blue	000 ⇄ 255	0–100%
13	Beam FX	000 ⇄ 005	No function
		006 ⇄ 042	Ramp up
		043 ⇄ 085	Ramp down
		086 ⇄ 128	Ramp up-down
		129 ⇄ 171	Random
		172 ⇄ 214	Lightning
		215 ⇄ 255	Spikes
14	Plates foreground	000 ⇄ 000	No function
		001 ⇄ 002	White (2700K)
		003 ⇄ 004	White (3200K)
		005 ⇄ 006	White (4200K)
		007 ⇄ 008	White (5600K)
		009 ⇄ 010	White (8000K)
		011	Blue R: 0 G: 0 B: 255 W: 0
		012 ⇄ 048	Green+ / Blue R: 0 G: + B: 255 W: 0
		049	Cyan R: 0 G: 255 B: 255 W: 0
		050 ⇄ 086	Green / Blue- R: 0 G: 255 B: - W: 0
		087	Green R: 0 G: 255 B: 0 W: 0
		088 ⇄ 124	Red+ / Green R: + G: 255 B: 0 W: 0
		125	Yellow R: 255 G: 255 B: 0 W: 0
		126 ⇄ 162	Red / Green- R: 255 G: - B: 0 W: 0
		163	Red R: 255 G: 0 B: 0 W: 0
		164 ⇄ 200	Red / Blue+ R: 255 G: 0 B: + W: 0
		201	Magenta R: 255 G: 0 B: 255 W: 0
		202 ⇄ 238	Red- / Blue R: - G: 0 B: 255 W: 0
		239	Blue R: 0 G: 0 B: 255 W: 0
240 ⇄ 247	Color index, fast to slow		
248 ⇄ 255	Color snap, fast to slow		
15	Plates foreground dimmer	000 ⇄ 255	0–100%

Channel	Function	Value	Percent/Setting
16	Plates background	000 ⇔ 000	No function
		001 ⇔ 002	White (2700K)
		003 ⇔ 004	White (3200K)
		005 ⇔ 006	White (4200K)
		007 ⇔ 008	White (5600K)
		009 ⇔ 010	White (8000K)
		011	Blue R: 0 G: 0 B: 255 W: 0
		012 ⇔ 048	Green+ / Blue R: 0 G: + B: 255 W: 0
		049	Cyan R: 0 G: 255 B: 255 W: 0
		050 ⇔ 086	Green / Blue- R: 0 G: 255 B: - W: 0
		087	Green R: 0 G: 255 B: 0 W: 0
		088 ⇔ 124	Red+ / Green R: + G: 255 B: 0 W: 0
		125	Yellow R: 255 G: 255 B: 0 W: 0
		126 ⇔ 162	Red / Green- R: 255 G: - B: 0 W: 0
		163	Red R: 255 G: 0 B: 0 W: 0
		164 ⇔ 200	Red / Blue+ R: 255 G: 0 B: + W: 0
		201	Magenta R: 255 G: 0 B: 255 W: 0
		202 ⇔ 238	Red- / Blue R: - G: 0 B: 255 W: 0
239	Blue R: 0 G: 0 B: 255 W: 0		
240 ⇔ 247	Color index, fast to slow		
248 ⇔ 255	Color snap, fast to slow		
17	Plates background dimmer	000 ⇔ 255	0–100%
18	Plate 1 (pixels 1–7) FX select	000 ⇔ 002	Plate FX All select (all on)
		003 ⇔ 255	see <a href="#">Plate Patterns</a>
19	Plate 1 (pixels 1–7) FX movement speed & direction	000 ⇔ 005	No function
		006 ⇔ 124	Left to right, fast to slow
		125 ⇔ 130	No function
		131 ⇔ 249	Right to left, slow to fast
		250 ⇔ 255	No function
20	Plate 1 (pixels 1–7) FX crossfade	000 ⇔ 002	Snap from cell to cell
		003 ⇔ 255	Fade duration: short to long
21	Plate 2 (pixels 8–14) FX select	000 ⇔ 002	Plate FX All select (all on)
		003 ⇔ 255	see <a href="#">Plate Patterns</a>
22	Plate 2 (pixels 8–14) FX movement speed & direction	000 ⇔ 005	No function
		006 ⇔ 124	Left to right, fast to slow
		125 ⇔ 130	No function
		131 ⇔ 249	Right to left, slow to fast
		250 ⇔ 255	No function
23	Plate 2 (pixels 8–14) FX crossfade	000 ⇔ 002	Snap from cell to cell
		003 ⇔ 255	Fade duration: short to long
24	Beam 1 (pixels 1–14) FX select	000 ⇔ 002	Beam FX All select (all on)
		003 ⇔ 255	see <a href="#">Beam Patterns</a>
25	Beam 1 (pixels 1–14) FX movement speed & direction	000 ⇔ 005	No function
		006 ⇔ 124	Left to right, fast to slow
		125 ⇔ 130	No function
		131 ⇔ 249	Right to left, slow to fast
		250 ⇔ 255	No function
26	Beam 1 (pixels 1–14) FX crossfade	000 ⇔ 002	Snap from cell to cell
		003 ⇔ 255	Fade duration: short to long
27	Beam 2 (pixels 15–28) FX select	000 ⇔ 002	Beam FX All select (all on)
		003 ⇔ 255	see <a href="#">Beam Patterns</a>

Channel	Function	Value	Percent/Setting
28	Beam 2 (pixels 15–28) FX movement speed & direction	000 ⇄ 005	No function
		006 ⇄ 124	Left to right, fast to slow
		125 ⇄ 130	No function
		131 ⇄ 249	Right to left, slow to fast
		250 ⇄ 255	No function
29	Beam 2 (pixels 15–28) FX crossfade	000 ⇄ 002	Snap from cell to cell
		003 ⇄ 255	Fade duration: short to long
30	Control*	000 ⇄ 005	No function
		006 ⇄ 010	Off (dimmer mode)
		011 ⇄ 015	Dimmer 1
		016 ⇄ 020	Dimmer 2
		021 ⇄ 025	Dimmer 3
		026 ⇄ 030	600 Hz
		031 ⇄ 035	1200 Hz
		036 ⇄ 040	2000 Hz
		041 ⇄ 045	4000 Hz
		046 ⇄ 050	6000 Hz
		051 ⇄ 055	25 KHz
		056 ⇄ 060	Fan mode auto
		061 ⇄ 065	Fan mode on
		066 ⇄ 070	Tilt reset
		071 ⇄ 075	Plate1 invert off
		076 ⇄ 080	Plate1 invert on
		081 ⇄ 085	Plate2 invert off
		086 ⇄ 090	Plate2 invert on
		091 ⇄ 095	Beam1 invert off
		096 ⇄ 100	Beam1 invert on
		101 ⇄ 105	Beam2 invert off
		106 ⇄ 110	Beam2 invert on
		111 ⇄ 115	Plate swap on
		116 ⇄ 120	Plate swap off
		121 ⇄ 125	Beam swap on
126 ⇄ 130	Beam swap off		
131 ⇄ 140	No function		
141 ⇄ 150	No function		
151 ⇄ 155	No function		
156 ⇄ 160	No function		
161 ⇄ 170	No function		
171 ⇄ 255	No function		



\*Hold desired dimmer speed value for 3 seconds, then release. This changes the dimmer speed setting in the menu.

### 24CH

Channel	Function	Value	Percent/Setting
1	Tilt	000 ⇔ 255	0–100%
2	Fine tilt	000 ⇔ 255	0–100%
3	Master dimmer	000 ⇔ 255	0–100%
4	Plate dimmer	000 ⇔ 255	0–100%
5	Beam dimmer	000 ⇔ 255	0–100%
6	Plate flash duration	000 ⇔ 009	Classic shutter mode: disables duration control
		010 ⇔ 250	Slow to fast
		251 ⇔ 255	100% On, no flash/strobe
7	Plate flash rate	000 ⇔ 009	100%
		010 ⇔ 250	Slow to fast
		251 ⇔ 255	100%
8	Beam flash duration	000 ⇔ 009	Classic shutter mode: disables duration control
		010 ⇔ 250	Slow to fast
		251 ⇔ 255	100% On, no flash/strobe
9	Beam flash rate	000 ⇔ 009	100%
		010 ⇔ 250	Slow to fast
		251 ⇔ 255	100% on
10	Plates red	000 ⇔ 255	0–100%
11	Plates green	000 ⇔ 255	0–100%
12	Plates blue	000 ⇔ 255	0–100%
13	Beam FX	000 ⇔ 005	No function
		006 ⇔ 042	Ramp up
		043 ⇔ 085	Ramp down
		086 ⇔ 128	Ramp up-down
		129 ⇔ 171	Random
		172 ⇔ 214	Lightning
		215 ⇔ 255	Spikes
14	Plates foreground	000 ⇔ 000	No function
		001 ⇔ 002	White (2700K)
		003 ⇔ 004	White (3200K)
		005 ⇔ 006	White (4200K)
		007 ⇔ 008	White (5600K)
		009 ⇔ 010	White (8000K)
		011	Blue R: 0 G: 0 B: 255 W: 0
		012 ⇔ 048	Green+ / Blue R: 0 G: + B: 255 W: 0
		049	Cyan R: 0 G: 255 B: 255 W: 0
		050 ⇔ 086	Green / Blue- R: 0 G: 255 B: - W: 0
		087	Green R: 0 G: 255 B: 0 W: 0
		088 ⇔ 124	Red+ / Green R: + G: 255 B: 0 W: 0
		125	Yellow R: 255 G: 255 B: 0 W: 0
		126 ⇔ 162	Red / Green- R: 255 G: - B: 0 W: 0
		163	Red R: 255 G: 0 B: 0 W: 0
		164 ⇔ 200	Red / Blue+ R: 255 G: 0 B: + W: 0
		201	Magenta R: 255 G: 0 B: 255 W: 0
202 ⇔ 238	Red- / Blue R: - G: 0 B: 255 W: 0		
239	Blue R: 0 G: 0 B: 255 W: 0		
240 ⇔ 247	Color index, fast to slow		
248 ⇔ 255	Color snap, fast to slow		
15	Plates foreground dimmer	000 ⇔ 255	0–100%

Channel	Function	Value	Percent/Setting
16	Plates background	000 ⇔ 000	No function
		001 ⇔ 002	White (2700K)
		003 ⇔ 004	White (3200K)
		005 ⇔ 006	White (4200K)
		007 ⇔ 008	White (5600K)
		009 ⇔ 010	White (8000K)
		011	Blue R: 0 G: 0 B: 255 W: 0
		012 ⇔ 048	Green+ / Blue R: 0 G: + B: 255 W: 0
		049	Cyan R: 0 G: 255 B: 255 W: 0
		050 ⇔ 086	Green / Blue- R: 0 G: 255 B: - W: 0
		087	Green R: 0 G: 255 B: 0 W: 0
		088 ⇔ 124	Red+ / Green R: + G: 255 B: 0 W: 0
		125	Yellow R: 255 G: 255 B: 0 W: 0
		126 ⇔ 162	Red / Green- R: 255 G: - B: 0 W: 0
		163	Red R: 255 G: 0 B: 0 W: 0
		164 ⇔ 200	Red / Blue+ R: 255 G: 0 B: + W: 0
		201	Magenta R: 255 G: 0 B: 255 W: 0
		202 ⇔ 238	Red- / Blue R: - G: 0 B: 255 W: 0
		239	Blue R: 0 G: 0 B: 255 W: 0
		240 ⇔ 247	Color index, fast to slow
248 ⇔ 255	Color snap, fast to slow		
17	Plates background dimmer	000 ⇔ 255	0–100%
18	Plates 1 & 2 FX select	000 ⇔ 002	Plate FX All select (all on)
		003 ⇔ 255	see <a href="#">Plate Patterns</a>
19	Plates 1 & 2 FX movement speed & direction	000 ⇔ 005	No function
		006 ⇔ 124	Left to right, fast to slow
		125 ⇔ 130	No function
		131 ⇔ 249	Right to left, slow to fast
		250 ⇔ 255	No function
20	Plates 1 & 2 FX crossfade	000 ⇔ 002	Snap from cell to cell
		003 ⇔ 255	Fade duration: short to long
21	Beams 1 & 2 FX select	000 ⇔ 002	Beam FX All select (all on)
		003 ⇔ 255	see <a href="#">Beam Patterns</a>
22	Beams 1 & 2 FX movement speed & direction	000 ⇔ 005	No function
		006 ⇔ 124	Left to right, fast to slow
		125 ⇔ 130	No function
		131 ⇔ 249	Right to left, slow to fast
		250 ⇔ 255	No function
23	Beams 1 & 2 FX crossfade	000 ⇔ 002	Snap from cell to cell
		003 ⇔ 255	Fade duration: short to long

Channel	Function	Value	Percent/Setting
24	Control*	000 ⇄ 005	No function
		006 ⇄ 010	Off (dimmer mode)
		011 ⇄ 015	Dimmer 1
		016 ⇄ 020	Dimmer 2
		021 ⇄ 025	Dimmer 3
		026 ⇄ 030	600 Hz
		031 ⇄ 035	1200 Hz
		036 ⇄ 040	2000 Hz
		041 ⇄ 045	4000 Hz
		046 ⇄ 050	6000 Hz
		051 ⇄ 055	25 KHz
		056 ⇄ 060	Fan mode auto
		061 ⇄ 065	Fan mode on
		066 ⇄ 070	Tilt reset
		071 ⇄ 075	Plate1 invert off
		076 ⇄ 080	Plate1 invert on
		081 ⇄ 085	Plate2 invert off
		086 ⇄ 090	Plate2 invert on
		091 ⇄ 095	Beam1 invert off
		096 ⇄ 100	Beam1 invert on
		101 ⇄ 105	Beam2 invert off
		106 ⇄ 110	Beam2 invert on
		111 ⇄ 115	Plate swap on
		116 ⇄ 120	Plate swap off
		121 ⇄ 125	Beam swap on
		126 ⇄ 130	Beam swap off
		131 ⇄ 140	No function
		141 ⇄ 150	No function
		151 ⇄ 155	No function
		156 ⇄ 160	No function
161 ⇄ 170	No function		
171 ⇄ 255	No function		



\*Hold desired dimmer speed value for 3 seconds, then release. This changes the dimmer speed setting in the menu.

13CH

Channel	Function	Value	Percent/Setting
1	Tilt	000 ⇔ 255	0–100%
2	Fine tilt	000 ⇔ 255	0–100%
3	Plate dimmer	000 ⇔ 255	0–100%
4	Beam dimmer	000 ⇔ 255	0–100%
5	Plate flash duration	000 ⇔ 009	Classic shutter mode: disables duration control
		010 ⇔ 250	Slow to fast
		251 ⇔ 255	100% On, no flash/strobe
6	Plate flash rate	000 ⇔ 009	100%
		010 ⇔ 250	Slow to fast
		251 ⇔ 255	100%
7	Beam flash duration	000 ⇔ 009	Classic shutter mode: disables duration control
		010 ⇔ 250	Slow to fast
		251 ⇔ 255	100% On, no flash/strobe
8	Beam flash rate	000 ⇔ 009	100%
		010 ⇔ 250	Slow to fast
		251 ⇔ 255	100% on
9	Plates red	000 ⇔ 255	0–100%
10	Plates green	000 ⇔ 255	0–100%
11	Plates blue	000 ⇔ 255	0–100%
12	Beam FX	000 ⇔ 005	No function
		006 ⇔ 042	Ramp up
		043 ⇔ 085	Ramp down
		086 ⇔ 128	Ramp up-down
		129 ⇔ 171	Random
		172 ⇔ 214	Lightning
		215 ⇔ 255	Spikes



Channel	Function	Value	Percent/Setting
13	Control*	000 ⇄ 005	No function
		006 ⇄ 010	Off (dimmer mode)
		011 ⇄ 015	Dimmer 1 (dimmer mode)
		016 ⇄ 020	Dimmer 2 (dimmer mode)
		021 ⇄ 025	Dimmer 3 (dimmer mode)
		026 ⇄ 030	600 Hz
		031 ⇄ 035	1200 Hz
		036 ⇄ 040	2000 Hz
		041 ⇄ 045	4000 Hz
		046 ⇄ 050	6000 Hz
		051 ⇄ 055	25 KHz
		056 ⇄ 060	Fan mode auto
		061 ⇄ 065	Fan mode on
		066 ⇄ 070	Tilt reset
		071 ⇄ 075	Plate1 invert off
		076 ⇄ 080	Plate1 invert on
		081 ⇄ 085	Plate2 invert off
		086 ⇄ 090	Plate2 invert on
		091 ⇄ 095	Beam1 invert off
		096 ⇄ 100	Beam1 invert on
		101 ⇄ 105	Beam2 invert off
		106 ⇄ 110	Beam2 invert on
		111 ⇄ 115	Plate swap on
		116 ⇄ 120	Plate swap off
		121 ⇄ 125	Beam swap on
		126 ⇄ 130	Beam swap off
		131 ⇄ 140	No function
		141 ⇄ 150	No function
		151 ⇄ 155	No function
		156 ⇄ 160	No function
161 ⇄ 170	No function		
171 ⇄ 255	No function		



\*Hold desired dimmer speed value for 3 seconds, then release. This changes the dimmer speed setting in the menu.

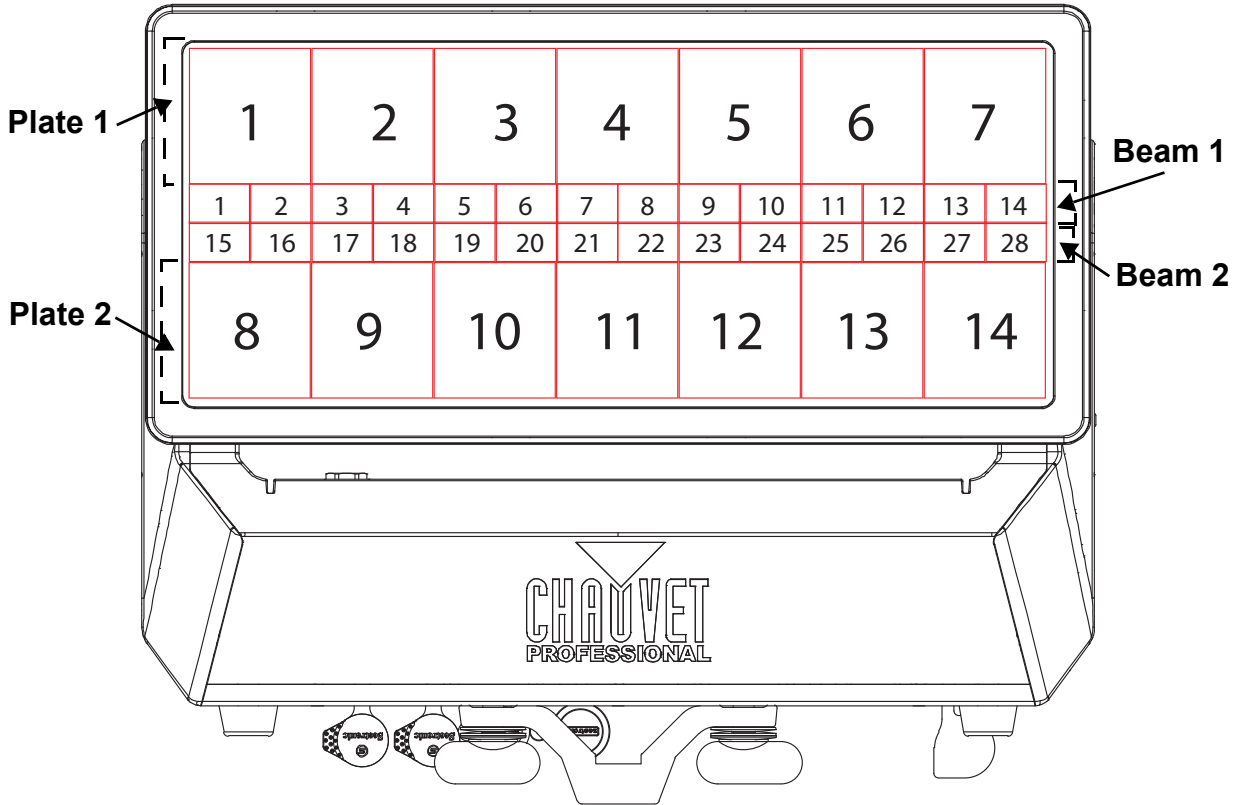
**11CH**

Channel	Function	Value	Percent/Setting
1	Tilt	000 ⇔ 255	0–100%
2	Fine tilt	000 ⇔ 255	0–100%
3	Dimmer	000 ⇔ 255	0–100%
4	Plate flash duration	000 ⇔ 009 010 ⇔ 250 251 ⇔ 255	Classic shutter mode: disables duration control Slow to fast 100% On, no flash/strobe
5	Plate flash rate	000 ⇔ 009 010 ⇔ 250 251 ⇔ 255	100% Slow to fast 100%
6	Beam flash duration	000 ⇔ 009 010 ⇔ 250 251 ⇔ 255	Classic shutter mode: disables duration control Slow to fast 100% On, no flash/strobe
7	Beam flash rate	000 ⇔ 009 010 ⇔ 250 251 ⇔ 255	100% Slow to fast 100% on
8	Plates red	000 ⇔ 255	0–100%
9	Plates green	000 ⇔ 255	0–100%
10	Plates blue	000 ⇔ 255	0–100%
11	Beam	000 ⇔ 255	0–100%

**8CH**

Channel	Function	Value	Percent/Setting
1	Tilt	000 ⇔ 255	0–100%
2	Fine tilt	000 ⇔ 255	0–100%
3	Dimmer	000 ⇔ 255	0–100%
4	Strobe	000 ⇔ 009 010 ⇔ 079 080 ⇔ 149 150 ⇔ 219 220 ⇔ 255	Open Strobe, slow to fast Pulse, slow to fast Random strobe, slow to fast Open
5	Red	000 ⇔ 255	0–100%
6	Green	000 ⇔ 255	0–100%
7	Blue	000 ⇔ 255	0–100%
8	Beam	000 ⇔ 255	0–100%

### Pixel Mapping



**Plate Patterns**

000-002		022		042		062	
003		023		043		063	
004		024		044		064	
005		025		045		065	
006		026		046		066	
007		027		047		067	
008		028		048		068	
009		029		049		069	
010		030		050		070	
011		031		051		071	
012		032		052		072	
013		033		053		073	
014		034		054		074	
015		035		055		075	
016		036		056		076	
017		037		057		077	
018		038		058		078	
019		039		059		079	
020		040		060		080-255	
021		041		061			

### Beam Patterns

000-002		031		060		089		118	
003		032		061		090		119	
004		033		062		091		120	
005		034		063		092		121	
006		035		064		093		122	
007		036		065		094		123	
008		037		066		095		124	
009		038		067		096		125	
010		039		068		097		126	
011		040		069		098		127	
012		041		070		099		128	
013		042		071		100		129	
014		043		072		101		130	
015		044		073		102		131	
016		045		074		103		132	
017		046		075		104		133	
018		047		076		105		134	
019		048		077		106		135	
020		049		078		107		136	
021		050		079		108		137	
022		051		080		109		138	
023		052		081		110		139	
024		053		082		111		140	
025		054		083		112		141	
026		055		084		113		142	
027		056		085		114		143	
028		057		086		115		144	
029		058		087		116		145-255	
030		059		088		117			