

## DMX Channel Assignments and Values

### Control Chart

Value	Percent/Setting	Value	Percent/Setting
000 ⇔ 005	No function	081 ⇔ 085	"S" dimmer
006 ⇔ 010	Dimmer mode off	086 ⇔ 090	No function
011 ⇔ 015	Dimmer mode 1 (fast)	091 ⇔ 095	Beam 1 Invert off
016 ⇔ 020	Dimmer mode 2	096 ⇔ 100	Beam 1 Invert on
021 ⇔ 025	Dimmer mode 3 (slow)	101 ⇔ 105	Beam 2 Invert off
026 ⇔ 030	1000 Hz	106 ⇔ 110	Beam 2 Invert on
031 ⇔ 035	2000 Hz	111 ⇔ 115	Plate invert off
036 ⇔ 040	4000 Hz	116 ⇔ 120	Plate invert on
041 ⇔ 045	6000 Hz	121 ⇔ 125	Beam swap off
046 ⇔ 050	25Khz	126 ⇔ 130	Beam swap on
051 ⇔ 055	64Khz	131 ⇔ 135	Reserved for future use
056 ⇔ 060	Fan mode auto	136 ⇔ 140	Reserved for future use
061 ⇔ 065	Fan mode on	141 ⇔ 243	Reserved for future use
066 ⇔ 070	Linear dimmer	244 ⇔ 249	Dimmer mode override (instant engage)
071 ⇔ 075	Square dimmer	250 ⇔ 255	No function
076 ⇔ 080	Inverse square dimmer		

### Beam Patterns



**40Ch**

Channel	Function	Value	Percent/Setting
1	Frost	000 ⇄ 255	0–100%
2	Master dimmer	000 ⇄ 255	0–100%
3	Beam dimmer	000 ⇄ 255	0–100%
4	Plates dimmer	000 ⇄ 255	0–100%
5	Beam flash duration	000 ⇄ 009	Classic shutter mode: disables duration control
		010 ⇄ 250	Beam strobe duration, slow to long
		251 ⇄ 255	100% on, no flash/strobe
6	Beam flash rate	000 ⇄ 009	100% on, no flash/strobe
		010 ⇄ 250	Beam strobe rate, slow to fast
		251 ⇄ 255	100% on, no flash/strobe
7	Plate flash duration	000 ⇄ 009	Classic shutter mode: disables duration control
		010 ⇄ 250	Plate strobe duration, slow to long
		251 ⇄ 255	100% on, no flash/strobe
8	Plate flash rate	000 ⇄ 009	100% on, no flash/strobe
		010 ⇄ 250	Plate strobe rate, slow to fast
		251 ⇄ 255	100% on, no flash/strobe
9	Plate pixel 1 red	000 ⇄ 255	0–100%
10	Plate pixel 1 green	000 ⇄ 255	0–100%
11	Plate pixel 1 blue	000 ⇄ 255	0–100%
12	Plate pixel 1 amber	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 2 amber	000 ⇄ 255	0–100%
17	Beam pixel 1	000 ⇄ 255	0–100%
18	Beam pixel 2	000 ⇄ 255	0–100%
19	Beam pixel 3	000 ⇄ 255	0–100%
20	Beam pixel 4	000 ⇄ 255	0–100%
21	Beam pixel 5	000 ⇄ 255	0–100%
22	Beam pixel 6	000 ⇄ 255	0–100%
23	Beam pixel 7	000 ⇄ 255	0–100%
24	Beam pixel 8	000 ⇄ 255	0–100%
25	Beam pixel 9	000 ⇄ 255	0–100%
26	Beam pixel 10	000 ⇄ 255	0–100%
27	Beam pixel 11	000 ⇄ 255	0–100%
28	Beam pixel 12	000 ⇄ 255	0–100%
29	Beam pixel 13	000 ⇄ 255	0–100%
30	Beam pixel 14	000 ⇄ 255	0–100%
31	Beam pixel 15	000 ⇄ 255	0–100%
32	Beam pixel 16	000 ⇄ 255	0–100%
33	Beam FX	000 ⇄ 005	No effect
		006 ⇄ 042	Ramp up
		043 ⇄ 085	Ramp down
		086 ⇄ 128	Ramp up-down
		129 ⇄ 171	Random
		172 ⇄ 214	Lighting
		215 ⇄ 255	Spikes

## DMX CHART

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Channel	Function	Value	Percent/Setting
34	Top beams FX select (cells 1–14)	000 ⇔ 002	Beam FX all select (all on)
		003 ⇔ 255	See <a href="#">Beam Patterns</a> <a href="#">Beam Patterns</a>
35	Top beams FX movement speed & direction (cells 1–14)	000 ⇔ 005	Beam FX (no function)
		006 ⇔ 124	Beam FX left to right, fast to slow
		125 ⇔ 130	Beam FX stop (no function)
		131 ⇔ 249	Beam FX Movement: right to left, slow to fast
		250 ⇔ 255	Beam FX stop (no function)
36	Top beams FX crossfade (cells 1–14)	000 ⇔ 002	snap, cell to cell
		003 ⇔ 255	Fade duration, short to long
37	Bottom Beam FX select (cells 15–28)	000 ⇔ 002	Beam FX all select (all on)
		003 ⇔ 255	See <a href="#">Beam Patterns</a> <a href="#">Beam Patterns</a>
38	Bottom beams FX movement speed & direction (cells 15–28)	000 ⇔ 005	Beam FX (no function)
		006 ⇔ 124	Beam FX left to right, fast to slow
		125 ⇔ 130	Beam FX stop (no function)
		131 ⇔ 249	Beam FX Movement: right to left, slow to fast
		250 ⇔ 255	Beam FX stop (no function)
39	Bottom beams FX crossfade (cells 15–28)	000 ⇔ 002	snap, cell to cell
		003 ⇔ 255	Fade duration, short to long
40	Control (Hold 3seconds)	000 ⇔ 255	See the <a href="#">Control Chart</a>

**27Ch**

Channel	Function	Value	Percent/Setting
1	Frost	000 ⇄ 255	0–100%
2	Dimmer	000 ⇄ 255	0–100%
3	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
4	Plate pixel 1 red	000 ⇄ 255	0–100%
5	Plate pixel 1 green	000 ⇄ 255	0–100%
6	Plate pixel 1 blue	000 ⇄ 255	0–100%
7	Plate pixel 1 amber	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 2 amber	000 ⇄ 255	0–100%
12	Beam pixel 1	000 ⇄ 255	0–100%
13	Beam pixel 2	000 ⇄ 255	0–100%
14	Beam pixel 3	000 ⇄ 255	0–100%
15	Beam pixel 4	000 ⇄ 255	0–100%
16	Beam pixel 5	000 ⇄ 255	0–100%
17	Beam pixel 6	000 ⇄ 255	0–100%
18	Beam pixel 7	000 ⇄ 255	0–100%
19	Beam pixel 8	000 ⇄ 255	0–100%
20	Beam pixel 9	000 ⇄ 255	0–100%
21	Beam pixel 10	000 ⇄ 255	0–100%
22	Beam pixel 11	000 ⇄ 255	0–100%
23	Beam pixel 12	000 ⇄ 255	0–100%
24	Beam pixel 13	000 ⇄ 255	0–100%
25	Beam pixel 14	000 ⇄ 255	0–100%
26	Beam pixel 15	000 ⇄ 255	0–100%
27	Beam pixel 16	000 ⇄ 255	0–100%

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### 25Ch

Channel	Function	Value	Percent/Setting
1	Frost	000 ⇔ 255	0–100%
2	Master dimmer	000 ⇔ 255	0–100%
3	Beam dimmer	000 ⇔ 255	0–100%
4	Plates dimmer	000 ⇔ 255	0–100%
5	Beam flash duration	000 ⇔ 009	Classic shutter mode: disables duration control
		010 ⇔ 250	Beam strobe duration, slow to long
		251 ⇔ 255	100% on, no flash/strobe
6	Beam flash rate	000 ⇔ 009	100% on, no flash/strobe
		010 ⇔ 250	Beam strobe rate, slow to fast
		251 ⇔ 255	100% on, no flash/strobe
7	Plate flash duration	000 ⇔ 009	Classic shutter mode: disables duration control
		010 ⇔ 250	Plate strobe duration, slow to long
		251 ⇔ 255	100% on, no flash/strobe
8	Plate flash rate	000 ⇔ 009	100% on, no flash/strobe
		010 ⇔ 250	Plate strobe rate, slow to fast
		251 ⇔ 255	100% on, no flash/strobe
9	Plate pixel 1 red	000 ⇔ 255	0–100%
10	Plate pixel 1 green	000 ⇔ 255	0–100%
11	Plate pixel 1 blue	000 ⇔ 255	0–100%
12	Plate pixel 1 amber	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 2 amber	000 ⇔ 255	0–100%
17	Beam pixel 1 + 9	000 ⇔ 255	0–100%
18	Beam pixel 2 + 10	000 ⇔ 255	0–100%
19	Beam pixel 3 + 11	000 ⇔ 255	0–100%
20	Beam pixel 4 + 12	000 ⇔ 255	0–100%
21	Beam pixel 5 + 13	000 ⇔ 255	0–100%
22	Beam pixel 6 + 14	000 ⇔ 255	0–100%
23	Beam pixel 7 + 15	000 ⇔ 255	0–100%
24	Beam pixel 8 + 16	000 ⇔ 255	0–100%
25	Control (Hold 3seconds)	000 ⇔ 255	See the <a href="#">Control Chart</a>

**20Ch**

Channel	Function	Value	Percent/Setting
1	Frost	000 ⇔ 255	0–100%
2	Master dimmer	000 ⇔ 255	0–100%
3	Beam dimmer	000 ⇔ 255	0–100%
4	Plates dimmer	000 ⇔ 255	0–100%
5	Beam flash duration	000 ⇔ 009	Classic shutter mode: disables duration control
		010 ⇔ 250	Beam strobe duration, slow to long
		251 ⇔ 255	100% on, no flash/strobe
6	Beam flash rate	000 ⇔ 009	100% on, no flash/strobe
		010 ⇔ 250	Beam strobe rate, slow to fast
		251 ⇔ 255	100% on, no flash/strobe
7	Plate flash duration	000 ⇔ 009	Classic shutter mode: disables duration control
		010 ⇔ 250	Plate strobe duration, slow to long
		251 ⇔ 255	100% on, no flash/strobe
8	Plate flash rate	000 ⇔ 009	100% on, no flash/strobe
		010 ⇔ 250	Plate strobe rate, slow to fast
		251 ⇔ 255	100% on, no flash/strobe
9	Plates red	000 ⇔ 255	0–100%
10	Plates green	000 ⇔ 255	0–100%
11	Plates blue	000 ⇔ 255	0–100%
12	Plates amber	000 ⇔ 255	0–100%
13	Beam FX	000 ⇔ 005	No effect
		006 ⇔ 042	Ramp up
		043 ⇔ 085	Ramp down
		086 ⇔ 128	Ramp up-down
		129 ⇔ 171	Random
		172 ⇔ 214	Lighting
		215 ⇔ 255	Spikes
14	Top beams FX select (cells 1–14)	000 ⇔ 002	Beam FX all select (all on)
		003 ⇔ 255	See <a href="#">Beam Patterns</a> <a href="#">Beam Patterns</a>
15	Top beams FX movement speed & direction (cells 1–14)	000 ⇔ 005	Beam FX (no function)
		006 ⇔ 124	Beam FX left to right, fast to slow
		125 ⇔ 130	Beam FX stop (no function)
		131 ⇔ 249	Beam FX Movement: right to left, slow to fast
		250 ⇔ 255	Beam FX stop (no function)
16	Top beams FX crossfade (cells 1–14)	000 ⇔ 002	snap, cell to cell
		003 ⇔ 255	Fade duration, short to long
17	Bottom Beam FX select (cells 15–28)	000 ⇔ 002	Beam FX all select (all on)
		003 ⇔ 255	See <a href="#">Beam Patterns</a> <a href="#">Beam Patterns</a>
18	Bottom beams FX movement speed & direction (cells 15–28)	000 ⇔ 005	Beam FX (no function)
		006 ⇔ 124	Beam FX left to right, fast to slow
		125 ⇔ 130	Beam FX stop (no function)
		131 ⇔ 249	Beam FX Movement: right to left, slow to fast
		250 ⇔ 255	Beam FX stop (no function)
19	Bottom beams FX crossfade (cells 15–28)	000 ⇔ 002	snap, cell to cell
		003 ⇔ 255	Fade duration, short to long
20	Control (Hold 3seconds)	000 ⇔ 255	See the <a href="#">Control Chart</a>

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### 17Ch

Channel	Function	Value	Percent/Setting
1	Frost	000 ⇔ 255	0–100%
2	Master dimmer	000 ⇔ 255	0–100%
3	Beam dimmer	000 ⇔ 255	0–100%
4	Plates dimmer	000 ⇔ 255	0–100%
5	Beam flash duration	000 ⇔ 009	Classic shutter mode: disables duration control
		010 ⇔ 250	Beam strobe duration, slow to long
		251 ⇔ 255	100% on, no flash/strobe
6	Beam flash rate	000 ⇔ 009	100% on, no flash/strobe
		010 ⇔ 250	Beam strobe rate, slow to fast
		251 ⇔ 255	100% on, no flash/strobe
7	Plate flash duration	000 ⇔ 009	Classic shutter mode: disables duration control
		010 ⇔ 250	Plate strobe duration, slow to long
		251 ⇔ 255	100% on, no flash/strobe
8	Plate flash rate	000 ⇔ 009	100% on, no flash/strobe
		010 ⇔ 250	Plate strobe rate, slow to fast
		251 ⇔ 255	100% on, no flash/strobe
9	Plates red	000 ⇔ 255	0–100%
10	Plates green	000 ⇔ 255	0–100%
11	Plates blue	000 ⇔ 255	0–100%
12	Plates amber	000 ⇔ 255	0–100%
13	Beam FX	000 ⇔ 005	No effect
		006 ⇔ 042	Ramp up
		043 ⇔ 085	Ramp down
		086 ⇔ 128	Ramp up-down
		129 ⇔ 171	Random
		172 ⇔ 214	Lighting
		215 ⇔ 255	Spikes
14	Both beams FX select	000 ⇔ 002	Beam FX all select (all on)
		003 ⇔ 255	See <a href="#">Beam Patterns</a> <a href="#">Beam Patterns</a>
15	Both beams FX movement speed & direction	000 ⇔ 005	Beam FX (no function)
		006 ⇔ 124	Beam FX left to right, fast to slow
		125 ⇔ 130	Beam FX stop (no function)
		131 ⇔ 249	Beam FX Movement: right to left, slow to fast
		250 ⇔ 255	Beam FX stop (no function)
16	Both beams FX crossfade	000 ⇔ 002	snap, cell to cell
		003 ⇔ 255	Fade duration, short to long
17	Control (Hold 3seconds)	000 ⇔ 255	See the <a href="#">Control Chart</a>

**13Ch**

Channel	Function	Value	Percent/Setting
1	Frost	000 ⇔ 255	0–100%
2	Beam dimmer	000 ⇔ 255	0–100%
3	Plates dimmer	000 ⇔ 255	0–100%
4	Beam flash duration	000 ⇔ 009	Classic shutter mode: disables duration control
		010 ⇔ 250	Beam strobe duration, slow to long
		251 ⇔ 255	100% on, no flash/strobe
5	Beam flash rate	000 ⇔ 009	100% on, no flash/strobe
		010 ⇔ 250	Beam strobe rate, slow to fast
		251 ⇔ 255	100% on, no flash/strobe
6	Plate flash duration	000 ⇔ 009	Classic shutter mode: disables duration control
		010 ⇔ 250	Plate strobe duration, slow to long
		251 ⇔ 255	100% on, no flash/strobe
7	Plate flash rate	000 ⇔ 009	100% on, no flash/strobe
		010 ⇔ 250	Plate strobe rate, slow to fast
		251 ⇔ 255	100% on, no flash/strobe
8	Plates red	000 ⇔ 255	0–100%
9	Plates green	000 ⇔ 255	0–100%
10	Plates blue	000 ⇔ 255	0–100%
11	Plates amber	000 ⇔ 255	0–100%
12	Beam FX	000 ⇔ 005	No effect
		006 ⇔ 042	Ramp up
		043 ⇔ 085	Ramp down
		086 ⇔ 128	Ramp up-down
		129 ⇔ 171	Random
		172 ⇔ 214	Lighting
215 ⇔ 255	Spikes		
13	Control (Hold 3seconds)	000 ⇔ 255	See the <a href="#">Control Chart</a>



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### 11Ch

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

**10Ch**

Channel	Function	Value	Percent/Setting
1	Frost	000 ⇔ 255	0–100%
2	Dimmer	000 ⇔ 255	0–100%
3	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
4	White	000 ⇔ 255	0–100%
5	Red	000 ⇔ 255	0–100%
6	Green	000 ⇔ 255	0–100%
7	Blue	000 ⇔ 255	0–100%
8	Amber	000 ⇔ 255	0–100%
9	Beam Macro	000 ⇔ 010	No function
		011 ⇔ 030	Beam macro 1 (slow to fast)
		031 ⇔ 050	Beam macro 2 (slow to fast)
		051 ⇔ 070	Beam macro 3 (slow to fast)
		071 ⇔ 090	Beam macro 4 (slow to fast)
		091 ⇔ 110	Beam macro 5 (slow to fast)
		111 ⇔ 130	Beam macro 6 (slow to fast)
		131 ⇔ 150	Beam macro 7 (slow to fast)
		151 ⇔ 170	Beam macro 8 (slow to fast)
		171 ⇔ 190	Beam macro 9 (slow to fast)
		191 ⇔ 210	Beam macro 10 (slow to fast)
		211 ⇔ 230	Beam macro 11 (slow to fast)
		231 ⇔ 250	Beam macro 12 (slow to fast)
251 ⇔ 255	No function		
10	Plate Macro	000 ⇔ 010	No function
		011 ⇔ 030	Plate macro 1 (slow to fast)
		031 ⇔ 050	Plate Macro 2 (slow to fast)
		051 ⇔ 070	Plate macro 3 (slow to fast)
		071 ⇔ 090	Plate macro 4 (slow to fast)
		091 ⇔ 110	Plate macro 5 (slow to fast)
		111 ⇔ 130	Plate macro 6 (slow to fast)
		131 ⇔ 150	Plate macro 7 (slow to fast)
		151 ⇔ 170	Plate macro 8 (slow to fast)
		171 ⇔ 190	Plate macro 9 (slow to fast)
		191 ⇔ 210	Plate macro 10 (slow to fast)
		211 ⇔ 230	Plate macro 11 (slow to fast)
		231 ⇔ 250	Plate macro 12 (slow to fast)
251 ⇔ 255	No function		