



portman[®]
lights

P1 Mini

DMX chart

DMX Chart

I. Mode Simple

DMX channel	Parameter	Description
1.	Dimmer Main Source Ch. 1	Pixel 1 filament 8 bit dimmer 0 – 100%
2.	Dimmer Main Source Ch. 2	Pixel 2 filament 8 bit dimmer 0 – 100%
3.	Dimmer Main Source Ch. 3	Pixel 3 filament 8 bit dimmer 0 – 100%
4.	Dimmer Main Source Ch. 4	Pixel 4 filament 8 bit dimmer 0 – 100%
5.	Dimmer Main Source Ch. 5	Pixel 5 filament 8 bit dimmer 0 – 100%
6.	Dimmer Main Source Ch. 6	Pixel 6 filament 8 bit dimmer 0 – 100%
7.	Dimmer Main Source Ch. 7	Pixel 7 filament 8 bit dimmer 0 – 100%
8.	Red All glow	Red glow 8 bit on all pixels
9.	Green All glow	Green glow 8 bit on all pixels
10.	Blue All glow	Blue glow 8 bit on all pixels
11.	White All glow	White glow 8 bit on all pixels
12.	Dimmer glow	All pixels glow 8 bit dimmer 0 – 100%
13.	Strobe glow	Glow strobe channel
14.	Strobe Main Source	Filaments strobe channel
15.	Color wheel All glow	Glow virtual color wheel
16.	Macro	Macro select channel
17.	Macro direction	Macro direction channel
18.	Macro speed	Macro speed channel
19.	Control	Fixture control channel

II. Mode Standard

DMX channel	Parameter	Description
1.	Dimmer Main Source Ch. 1	Pixel 1 filament 8 bit dimmer 0 – 100%
2.	Dimmer Main Source Ch. 2	Pixel 2 filament 8 bit dimmer 0 – 100%
3.	Dimmer Main Source Ch. 3	Pixel 3 filament 8 bit dimmer 0 – 100%
4.	Dimmer Main Source Ch. 4	Pixel 4 filament 8 bit dimmer 0 – 100%
5.	Dimmer Main Source Ch. 5	Pixel 5 filament 8 bit dimmer 0 – 100%
6.	Dimmer Main Source Ch. 6	Pixel 6 filament 8 bit dimmer 0 – 100%
7.	Dimmer Main Source Ch. 7	Pixel 7 filament 8 bit dimmer 0 – 100%
8.	Red 1 glow	Pixel 1 Red 8 bit
9.	Green 1 glow	Pixel 1 Green 8 bit
10.	Blue 1 glow	Pixel 1 Blue 8 bit
11.	White 1 glow	Pixel 1 White 8 bit
12.	Red 2 glow	Pixel 2 Red 8 bit
13.	Green 2 glow	Pixel 2 Green 8 bit
14.	Blue 2 glow	Pixel 2 Blue 8 bit
15.	White 2 glow	Pixel 2 White 8 bit
16.	Red 3 glow	Pixel 3 Red 8 bit
17.	Green 3 glow	Pixel 3 Green 8 bit
18.	Blue 3 glow	Pixel 3 Blue 8 bit
19.	White 3 glow	Pixel 3 White 8 bit
20.	Red 4 glow	Pixel 4 Red 8 bit
21.	Green 4 glow	Pixel 4 Green 8 bit
22.	Blue 4 glow	Pixel 4 Blue 8 bit
23.	White 4 glow	Pixel 4 White 8 bit
24.	Red 5 glow	Pixel 5 Red 8 bit
25.	Green 5 glow	Pixel 5 Green 8 bit
26.	Blue 5 glow	Pixel 5 Blue 8 bit
27.	White 5 glow	Pixel 5 White 8 bit
28.	Red 6 glow	Pixel 6 Red 8 bit
29.	Green 6 glow	Pixel 6 Green 8 bit
30.	Blue 6 glow	Pixel 6 Blue 8 bit
31.	White 6 glow	Pixel 6 White 8 bit
32.	Red 7 glow	Pixel 7 Red 8 bit
33.	Green 7 glow	Pixel 7 Green 8 bit
34.	Blue 7 glow	Pixel 7 Blue 8 bit
35.	White 7 glow	Pixel 7 White 8 bit
36.	Dimmer glow	All pixels glow 8 bit dimmer 0 – 100%
37.	Strobe glow	Glow strobe channel
38.	Strobe Main Source	Filaments strobe channel
39.	Color wheel All glow	Glow virtual color wheel
40.	Macro	Macro select channel
41.	Macro direction	Macro direction channel
42.	Macro speed	Macro speed channel
43.	Control	Fixture control channel

III. Mode Standard fine

DMX channel	Parameter	Description
1.	Dimmer Main Source Ch. 1	Pixel 1 filament 8 bit dimmer 0 – 100%
2.	Dimmer Main Source Ch. 1 fine	Pixel 1 filament 16 bit dimmer 0 – 100%
3.	Dimmer Main Source Ch. 2	Pixel 2 filament 8 bit dimmer 0 – 100%
4.	Dimmer Main Source Ch. 2 fine	Pixel 2 filament 16 bit dimmer 0 – 100%
5.	Dimmer Main Source Ch. 3	Pixel 3 filament 8 bit dimmer 0 – 100%
6.	Dimmer Main Source Ch. 3 fine	Pixel 3 filament 16 bit dimmer 0 – 100%
7.	Dimmer Main Source Ch. 4	Pixel 4 filament 8 bit dimmer 0 – 100%
8.	Dimmer Main Source Ch. 4 fine	Pixel 4 filament 16 bit dimmer 0 – 100%
9.	Dimmer Main Source Ch. 5	Pixel 5 filament 8 bit dimmer 0 – 100%
10.	Dimmer Main Source Ch. 5 fine	Pixel 5 filament 16 bit dimmer 0 – 100%
11.	Dimmer Main Source Ch. 6	Pixel 6 filament 8 bit dimmer 0 – 100%
12.	Dimmer Main Source Ch. 6 fine	Pixel 6 filament 16 bit dimmer 0 – 100%
13.	Dimmer Main Source Ch. 7	Pixel 7 filament 8 bit dimmer 0 – 100%
14.	Dimmer Main Source Ch. 7 fine	Pixel 7 filament 16 bit dimmer 0 – 100%
15.	Red 1 glow	Pixel 1 Red 8 bit
16.	Green 1 glow	Pixel 1 Green 8 bit
17.	Blue 1 glow	Pixel 1 Blue 8 bit
18.	White 1 glow	Pixel 1 White 8 bit
19.	Red 2 glow	Pixel 2 Red 8 bit
20.	Green 2 glow	Pixel 2 Green 8 bit
21.	Blue 2 glow	Pixel 2 Blue 8 bit
22.	White 2 glow	Pixel 2 White 8 bit
23.	Red 3 glow	Pixel 3 Red 8 bit
24.	Green 3 glow	Pixel 3 Green 8 bit
25.	Blue 3 glow	Pixel 3 Blue 8 bit
26.	White 3 glow	Pixel 3 White 8 bit
27.	Red 4 glow	Pixel 4 Red 8 bit
28.	Green 4 glow	Pixel 4 Green 8 bit
29.	Blue 4 glow	Pixel 4 Blue 8 bit
30.	White 4 glow	Pixel 4 White 8 bit
31.	Red 5 glow	Pixel 5 Red 8 bit
32.	Green 5 glow	Pixel 5 Green 8 bit
33.	Blue 5 glow	Pixel 5 Blue 8 bit
34.	White 5 glow	Pixel 5 White 8 bit
35.	Red 6 glow	Pixel 6 Red 8 bit
36.	Green 6 glow	Pixel 6 Green 8 bit
37.	Blue 6 glow	Pixel 6 Blue 8 bit
38.	White 6 glow	Pixel 6 White 8 bit
39.	Red 7 glow	Pixel 7 Red 8 bit
40.	Green 7 glow	Pixel 7 Green 8 bit
41.	Blue 7 glow	Pixel 7 Blue 8 bit
42.	White 7 glow	Pixel 7 White 8 bit
43.	Dimmer glow	All pixels glow 8 bit dimmer 0 – 100%
44.	Strobe glow	Glow strobe channel
45.	Strobe Main Source	Filaments strobe channel
46.	Color wheel All glow	Glow virtual color wheel
47.	Macro	Macro select channel
48.	Macro direction	Macro direction channel
49.	Macro speed	Macro speed channel
50.	Control	Fixture control channel

IV. Mode pixel

DMX channel	Parameter	Description
1.	Dimmer Main Source Ch. 1	Pixel 1 filament 8 bit dimmer 0 – 100%
2.	Red 1 glow	Pixel 1 Red 8 bit
3.	Green 1 glow	Pixel 1 Green 8 bit
4.	Blue 1 glow	Pixel 1 Blue 8 bit
5.	White 1 glow	Pixel 1 White 8 bit
6.	Dimmer Main Source Ch. 2	Pixel 2 filament 8 bit dimmer 0 – 100%
7.	Red 2 glow	Pixel 2 Red 8 bit
8.	Green 2 glow	Pixel 2 Green 8 bit
9.	Blue 2 glow	Pixel 2 Blue 8 bit
10.	White 2 glow	Pixel 2 White 8 bit
11.	Dimmer Main Source Ch. 3	Pixel 3 filament 8 bit dimmer 0 – 100%
12.	Red 3 glow	Pixel 3 Red 8 bit
13.	Green 3 glow	Pixel 3 Green 8 bit
14.	Blue 3 glow	Pixel 3 Blue 8 bit
15.	White 3 glow	Pixel 3 White 8 bit
16.	Dimmer Main Source Ch. 4	Pixel 4 filament 8 bit dimmer 0 – 100%
17.	Red 4 glow	Pixel 4 Red 8 bit
18.	Green 4 glow	Pixel 4 Green 8 bit
19.	Blue 4 glow	Pixel 4 Blue 8 bit
20.	White 4 glow	Pixel 4 White 8 bit
21.	Dimmer Main Source Ch. 5	Pixel 5 filament 8 bit dimmer 0 – 100%
22.	Red 5 glow	Pixel 5 Red 8 bit
23.	Green 5 glow	Pixel 5 Green 8 bit
24.	Blue 5 glow	Pixel 5 Blue 8 bit
25.	White 5 glow	Pixel 5 White 8 bit
26.	Dimmer Main Source Ch. 6	Pixel 6 filament 8 bit dimmer 0 – 100%
27.	Red 6 glow	Pixel 6 Red 8 bit
28.	Green 6 glow	Pixel 6 Green 8 bit
29.	Blue 6 glow	Pixel 6 Blue 8 bit
30.	White 6 glow	Pixel 6 White 8 bit
31.	Dimmer Main Source Ch. 7	Pixel 7 filament 8 bit dimmer 0 – 100%
32.	Red 7 glow	Pixel 7 Red 8 bit
33.	Green 7 glow	Pixel 7 Green 8 bit
34.	Blue 7 glow	Pixel 7 Blue 8 bit
35.	White 7 glow	Pixel 7 White 8 bit
36.	Strobe glow	Glow strobe channel
37.	Strobe Main Source	Filaments strobe channel
38.	Color wheel All glow	Glow virtual color wheel
39.	Macro	Macro select channel
40.	Macro direction	Macro direction channel
41.	Macro speed	Macro speed channel
42.	Control	Fixture control channel

V. Mode pixel fine

DMX channel	Parameter	Description
1.	Dimmer Main Source Ch. 1	Pixel 1 filament 8 bit dimmer 0 – 100%
2.	Dimmer Main Source Ch. 1 fine	Pixel 1 filament 16 bit dimmer 0 – 100%
3.	Red 1 glow	Pixel 1 Red 8 bit
4.	Green 1 glow	Pixel 1 Green 8 bit
5.	Blue 1 glow	Pixel 1 Blue 8 bit
6.	White 1 glow	Pixel 1 White 8 bit
7.	Dimmer Main Source Ch. 2	Pixel 2 filament 8 bit dimmer 0 – 100%
8.	Dimmer Main Source Ch. 2 fine	Pixel 2 filament 16 bit dimmer 0 – 100%
9.	Red 2 glow	Pixel 2 Red 8 bit
10.	Green 2 glow	Pixel 2 Green 8 bit
11.	Blue 2 glow	Pixel 2 Blue 8 bit
12.	White 2 glow	Pixel 2 White 8 bit
13.	Dimmer Main Source Ch. 3	Pixel 3 filament 8 bit dimmer 0 – 100%
14.	Dimmer Main Source Ch. 3 fine	Pixel 3 filament 16 bit dimmer 0 – 100%
15.	Red 3 glow	Pixel 3 Red 8 bit
16.	Green 3 glow	Pixel 3 Green 8 bit
17.	Blue 3 glow	Pixel 3 Blue 8 bit
18.	White 3 glow	Pixel 3 White 8 bit
19.	Dimmer Main Source Ch. 4	Pixel 4 filament 8 bit dimmer 0 – 100%
20.	Dimmer Main Source Ch. 4 fine	Pixel 4 filament 16 bit dimmer 0 – 100%
21.	Red 4 glow	Pixel 4 Red 8 bit
22.	Green 4 glow	Pixel 4 Green 8 bit
23.	Blue 4 glow	Pixel 4 Blue 8 bit
24.	White 4 glow	Pixel 4 White 8 bit
25.	Dimmer Main Source Ch. 5	Pixel 5 filament 8 bit dimmer 0 – 100%
26.	Dimmer Main Source Ch. 5 fine	Pixel 5 filament 16 bit dimmer 0 – 100%
27.	Red 5 glow	Pixel 5 Red 8 bit
28.	Green 5 glow	Pixel 5 Green 8 bit
29.	Blue 5 glow	Pixel 5 Blue 8 bit
30.	White 5 glow	Pixel 5 White 8 bit
31.	Dimmer Main Source Ch. 6	Pixel 6 filament 8 bit dimmer 0 – 100%
32.	Dimmer Main Source Ch. 6 fine	Pixel 6 filament 16 bit dimmer 0 – 100%
33.	Red 6 glow	Pixel 6 Red 8 bit
34.	Green 6 glow	Pixel 6 Green 8 bit
35.	Blue 6 glow	Pixel 6 Blue 8 bit
36.	White 6 glow	Pixel 6 White 8 bit
37.	Dimmer Main Source Ch. 7	Pixel 7 filament 8 bit dimmer 0 – 100%
38.	Dimmer Main Source Ch. 7 fine	Pixel 7 filament 16 bit dimmer 0 – 100%
39.	Red 7 glow	Pixel 7 Red 8 bit
40.	Green 7 glow	Pixel 7 Green 8 bit
41.	Blue 7 glow	Pixel 7 Blue 8 bit
42.	White 7 glow	Pixel 7 White 8 bit
43.	Strobe glow	Glow strobe channel
44.	Strobe Main Source	Filaments strobe channel
45.	Color wheel All glow	Glow virtual color wheel
46.	Macro	Macro select channel
47.	Macro direction	Macro direction channel
48.	Macro speed	Macro speed channel
49.	Control	Fixture control channel

DMX channel description

Red values are default.

1. Strobe main source.

DMX Value	Function	Control type
0-9	Strobe open	constant
10 - 19	Strobe closed	constant
20 - 121	Strobe with growing frequency 0,5 Hz - 30 Hz	linear
122 - 129	Strobe open	constant
130 - 245	Random strobe with growing frequency	linear
246 - 255	Strobe open	constant

2. Strobe glow.

DMX Value	Function	Control type
0-9	Strobe open	constant
10 - 19	Strobe closed	constant
20 - 121	Strobe with growing frequency 0,5 Hz - 30 Hz	linear
122 - 129	Strobe open	constant
130 - 245	Random strobe with growing frequency	linear
246 - 255	Strobe open	constant

3. Color Wheel

DMX value	Function			Control type
0 - 9	Virtual color wheel open			constant
10 - 39	White			constant
40 - 237	Virtual color wheel engaged			linear
	RED	GREEN	BLUE	
40	255	0	0	
41	255	8	0	
42	255	16	0	
43	255	24	0	
44	255	32	0	
45	255	40	0	
46	255	48	0	
47	255	56	0	
48	255	64	0	
49	255	72	0	
50	255	80	0	
51	255	88	0	
52	255	96	0	
53	255	104	0	
54	255	112	0	
55	255	120	0	
56	255	128	0	
57	255	136	0	
58	255	144	0	
59	255	152	0	
60	255	160	0	
61	255	168	0	

62	255	176	0	
63	255	184	0	
64	255	192	0	
65	255	200	0	
66	255	208	0	
67	255	216	0	
68	255	224	0	
69	255	232	0	
70	255	240	0	
71	255	248	0	
72	255	255	0	
73	247	255	0	
74	239	255	0	
75	231	255	0	
76	223	255	0	
77	215	255	0	
78	207	255	0	
79	199	255	0	
80	191	255	0	
81	183	255	0	
82	175	255	0	
83	167	255	0	
84	159	255	0	
85	151	255	0	
86	143	255	0	
87	135	255	0	
88	127	255	0	
89	119	255	0	
90	111	255	0	
91	103	255	0	
92	95	255	0	

93	87	255	0	
94	79	255	0	
95	71	255	0	
96	63	255	0	
97	55	255	0	
98	47	255	0	
99	39	255	0	
100	31	255	0	
101	23	255	0	
102	15	255	0	
103	7	255	0	
104	0	255	0	
105	0	255	7	
106	0	255	14	
107	0	255	21	
108	0	255	28	
109	0	255	35	
110	0	255	42	
111	0	255	49	
112	0	255	56	
113	0	255	63	
114	0	255	70	
115	0	255	77	
116	0	255	84	
117	0	255	91	
118	0	255	98	
119	0	255	105	
120	0	255	112	
121	0	255	119	
122	0	255	126	
123	0	255	133	

124	0	255	140	
125	0	255	147	
126	0	255	154	
127	0	255	161	
128	0	255	168	
129	0	255	175	
130	0	255	182	
131	0	255	189	
132	0	255	196	
133	0	255	203	
134	0	255	210	
135	0	255	217	
136	0	255	224	
137	0	255	231	
138	0	255	238	
139	0	255	245	
140	0	255	252	
141	0	255	255	
142	0	247	255	
143	0	239	255	
144	0	231	255	
145	0	223	255	
146	0	215	255	
147	0	207	255	
148	0	199	255	
149	0	191	255	
150	0	183	255	
151	0	175	255	
152	0	167	255	
153	0	159	255	
154	0	151	255	

155	0	143	255	
156	0	135	255	
157	0	127	255	
158	0	119	255	
159	0	111	255	
160	0	103	255	
161	0	95	255	
162	0	87	255	
163	0	79	255	
164	0	71	255	
165	0	63	255	
166	0	55	255	
167	0	47	255	
168	0	39	255	
169	0	31	255	
170	0	23	255	
171	0	15	255	
172	0	7	255	
173	0	0	255	
174	8	0	255	
175	16	0	255	
176	24	0	255	
177	32	0	255	
178	40	0	255	
179	48	0	255	
180	56	0	255	
181	64	0	255	
182	72	0	255	
183	80	0	255	
184	88	0	255	
185	96	0	255	

186	104	0	255	
187	112	0	255	
188	120	0	255	
189	128	0	255	
190	136	0	255	
191	144	0	255	
192	152	0	255	
193	160	0	255	
194	168	0	255	
195	176	0	255	
196	184	0	255	
197	192	0	255	
198	200	0	255	
199	208	0	255	
200	216	0	255	
201	224	0	255	
202	232	0	255	
203	240	0	255	
204	248	0	255	
205	255	0	255	
206	255	0	247	
207	255	0	239	
208	255	0	231	
209	255	0	223	
210	255	0	215	
211	255	0	207	
212	255	0	199	
213	255	0	191	
214	255	0	183	
215	255	0	175	
216	255	0	167	

217	255	0	159	
218	255	0	151	
219	255	0	143	
220	255	0	135	
221	255	0	127	
222	255	0	119	
223	255	0	111	
224	255	0	103	
225	255	0	95	
226	255	0	87	
227	255	0	79	
228	255	0	71	
229	255	0	63	
230	255	0	55	
231	255	0	47	
232	255	0	39	
233	255	0	31	
234	255	0	23	
235	255	0	15	
236	255	0	7	
237	255	0	0	
238 - 254	Color spinning			linear
255	Virtual color wheel open			constant

4. Macro Channel.

DMX value	Function	Control type
0	Macro off	constant
1	Macro 1	constant
2	Macro 2	constant
3	Macro 3	constant

⋮
⋮
⋮

90	Macro 90	constant
91-245	Reserved	
246 - 255	Macro off	constant

5. Macro speed.

DMX value	Function	Control type
0-9	Macro stop;	Constant
10 - 127	Macros are working with increasing speed clockwise direction;	Linear
128 - 245	Macros are working with decreasing speed counterclockwise;	Linear
246 - 255	Macro stop;	Constant

6. Control.

DMX value	Function	Control type
0-30	No function	constant
31-40	Flicker mode 1	constant
41 - 50	Ficker mode 2	constant
51 - 60	Reserved	constant
61 - 70	Dimming curve linear	constant
71 - 80	Dimming curve logarythmic	constant
81 - 90	Dimming curve halogen	constant
91 - 245	Reserved	---
246 - 255	Reset all values to default	constant

To change the parameters from control channel, set the desired value and keep it for 5 seconds.

