

impression[&]
X4

DMX Layout



CW / WW Version



— since 1994 —

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1 DMX Channel Selection (DMX Protocol)

Normal-Mode 20 DMX channels

Channel	Function	Time and Value	DMX	HEX	%	
1) PAN-coarse	0 .. 660°		0..255	00..FF	0..100	
2) PAN-fine	High- Pos ... High- Pos + 2,6° (16 Bit)		0..255	00..FF	0..100	
3) Tilt-coarse	0 .. 300°		0..255	00..FF	0..100	
4) Tilt-fine	High- Pos ... High- Pos + 1,2° (16 Bit)		0..255	00..FF	0..100	
5) CTO	No CTO		0..7	00..07	0..2,5	
	Continuous color temperature correction	Applicable for ALL colors	8..255	08..FF	3..100	
6) Cold White	Mixing system – Cold White	0 - 100%	0..255	00..FF	0..100	
7) Warm White	Mixing system – Warm White	0 - 100%	0..255	00..FF	0..100	
8) Shutter	Shutter closed		0..15	00..0F	0..5,5	
	Shutter pulse random	slow – fast	16..47	10..2F	6..18,5	
	Up-dimming then Shutter closing (random patterns)	slow – fast	48..79	30..4F	19..31	
	Shutter open then down-dimming (random patterns)	slow – fast	80..111	50..6F	32..43	
	Up-dimming then down-dimming (random patterns)	slow – fast	112..143	70..8F	44..56	
	Strobe effect pause	5s - 0,1s	160..199	A0..C7	63..77	
	Strobe effect slow - fast	1 Hz - 10 Hz	200..239	C8..EF	78..94	
	Shutter open		240..255	F0..FF	95..100	
9) Dimmer	Dimmer	0 - 100%	0..255	0..FF	0..100	
10) Special	Pattern Block 1 → channel 17		0..3	00..03	0..1	
	Pattern Block 2 → channel 17		4..7	04..07	1,5..2,5	
	Change PWM frequency		100..200	64..C8	40..78	
	RESET		250..255	FA..FF	98..100	
11) Movement macros	No macros			0	00	0
	Movement	Size	Phase	Use "Speed" to adjust		
	PAN	1	0°	01..01	01..01	0,5
		1	90°	02..03	02..03	1,0
		1	180°	04..05	04..05	1,7
		1	270°	06..07	06..07	2,5
	PAN	2	0°	08..09	08..09	3,3
		2	90°	10..11	0A..0B	4,1
		2	180°	12..13	0C..0D	4,9
		2	270°	14..15	0E..0F	5,7
	PAN	3	0°	16..17	11..11	6,5
		3	90°	18..19	12..13	7,3
		3	180°	20..21	14..15	8,0
		3	270°	22..23	16..17	8,8
	PAN	4	0°	24..25	18..19	9,6
		4	90°	26..27	1A..1B	10,4
4		180°	28..29	1C..1D	11,2	

Channel	Function	Time and Value	DMX	HEX	%
	4	270°	30..31	1E..1F	12
	TILT	size / phase see PAN	32..63	20..3F	13..25
	PAN / TILT	size / phase see PAN	64..95	40..5F	26..37
	PAN / TILT (inverse)	size / phase see PAN	96..127	60..7F	38..50
	Circle	size / phase see PAN	128..159	80..9F	51..62
	Circle (inverse)	size / phase see PAN	160..191	A0..BF	63..75
	Lying eight	size / phase see PAN	192..223	C0..DF	76..87
	Random movement	size / phase see PAN	224..255	E0..FF	88..100
12) Speed Pan / Tilt	Pan/Tilt movement speed from controller		0..1	00..01	0..0,5
	Pan/Tilt slow – fast Use this channel also for the speed of the movements (channel 14).		02..255	02..FF	1..100
13) Zoom	Wide - narrow (spot)		0...255	00...FF	0...100
14) Pattern	No pattern		0..2	00..02	0..1
	250 pre-defined patterns (see appendix A)		03..253	03..FD	2..99
	Activates direct access to LED Pattern	See channels 18-20	254..255	FE..FF	100
15) Pattern Byte 1	Direct access to Pattern of LED 1..8		0...255	00...FF	0...100
16) Pattern Byte 2	Direct access to Pattern of LED 9..16		0...255	00...FF	0...100
17) Pattern Byte 3	Direct access to Pattern of LED 17..19		0..07	00...07	0..2,5

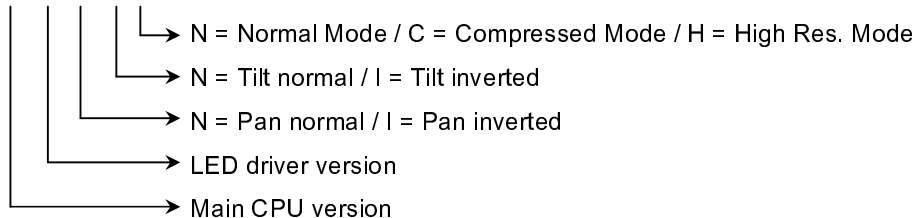
Locking and unlocking the Control Panel

Please lock and unlock the control panel by pressing the menu keys **MODE & ENTER & UP** at the same time.

Additional Display Indications

As a default you'll find the following additional information in the first row of the LCD display:

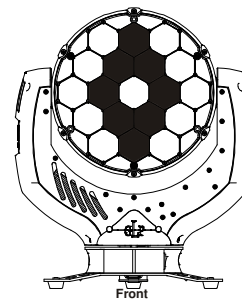
Vxx/xx/xx/xx/x



2 Appendix A

Patterns are grouped into two sets which can be activated and selected via the DMX channel "Special". Choose the desired pattern by its corresponding DMX value on channel "Pattern".

Orientation: Patterns are shown when looking at the **front** of a standing fixture; Head faced in direction of fixtures front label: DMX Pan @ 128; Tilt @ 220; Zoom @ 255 (letters are displayed homogenous).



Patterns Set 1

DMX	Pattern
000	
001	
002	
003	
004	
005	
006	
007	
008	
009	
010	
011	

DMX	Pattern
012	
013	
014	
015	
016	
017	
018	
019	
020	
021	
022	
023	

DMX	Pattern
024	
025	
026	
027	
028	
029	
030	
031	
032	
033	
034	
035	

DMX	Pattern
036	
037	
038	
039	
040	
041	
042	
043	
044	
045	
046	
047	

DMX	Pattern
048	
049	
050	
051	
052	
053	
054	
055	
056	
057	
058	
059	
060	
061	
062	
063	
064	

DMX	Pattern
065	
066	
067	
068	
069	
070	
071	
072	
073	
074	
075	
076	
077	
078	
079	
080	
081	

DMX	Pattern
082	
083	
084	
085	
086	
087	
088	
089	
090	
091	
092	
093	
094	
095	
096	
097	
098	

DMX	Pattern
099	
100	
101	
102	
103	
104	
105	
106	
107	
108	
109	
110	
111	
112	
113	
114	
115	

DMX	Pattern
116	
117	
118	
119	
120	
121	
122	
123	
124	
125	
126	
127	
128	
129	
130	
131	
132	

DMX	Pattern
133	
134	
135	
136	
137	
138	
139	
140	
141	
142	
143	
144	
145	
146	
147	
148	
149	

DMX	Pattern
150	
151	
152	
153	
154	
155	
156	
157	
158	
159	
160	
161	
162	
163	
164	
165	
166	

DMX	Pattern
167	
168	
169	
170	
171	
172	
173	
174	
175	
176	
177	
178	
179	
180	
181	
182	
183	

DMX	Pattern
184	
185	
186	
187	
188	
189	
190	
191	
192	
193	
194	
195	
196	
197	
198	
199	
200	

DMX	Pattern
201	
202	
203	
204	
205	
206	
207	
208	
209	
210	
211	
212	
213	
214	
215	
216	
217	

DMX	Pattern
218	
219	
220	
221	
222	
223	
224	
225	
226	
227	
228	
229	
230	
231	
232	
233	
234	

DMX	Pattern
235	
236	
237	
238	
239	
240	
241	
242	
243	
244	
245	
246	
247	
248	
249	
250	
251	

DMX	Pattern
252	

DMX	Pattern
253	reserved
254	reserved

DMX	Pattern
255	reserved




Patterns Set 2

DMX	Pattern
000	
001	
002	
003	
004	
005	
006	
007	
008	
009	
010	
011	
012	
013	

DMX	Pattern
014	
015	
016	
017	
018	
019	
020	
021	
022	
023	
024	
025	
026	
027	

DMX	Pattern
028	
029	
030	
031	
032	
033	
034	
035	
036	
037	
038	
039	
040	
041	

DMX	Pattern
042	
043	
044	
045	
046	
047	
048	
049	
050	
051	
052	
053	
054	
055	

DMX	Pattern
056	
057	
058	
059	-

