

DMX Channel Index

impression[&]
White X4

& Patterns Set Information



from software version: 1.10/01/01/01/nn/ns
(Instruction version: 0.9)



— since 1994 —

e-mail: service@glp.de
Internet: <http://www.glp.de>

DMX Channel Selection (DMX Protocol)

Normal-Mode 17 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) Color temperature	Noch zu vermessen !!		0..7	00..07	0..2..5	
	Color temperature 1	2800 K	8..15	08..0F	3..5.5	
	Color temperature 2	3000 K	16..23	10..17	6..8.5	
	Color temperature 3	3200 K	24..31	18..1F	9..12.5	
	Color temperature 4	3500 K	32..39	20..27	13..15.5	
	Color temperature 5	3800 K	40..47	28..2F	16..18.5	
	Color temperature 6	4200 K	48..55	30..37	19..21.5	
	Color temperature 7	4500 K	56..63	38..3F	22..24.5	
	Color temperature 8	4800 K	64..71	40..47	25..27.5	
	Color temperature 9	5000 K	72..79	48..4F	28..30.5	
	Color temperature 10	5200 K	80..87	50..57	31..34.5	
	Color temperature 11	5600 K	88..95	58..5F	35..37.5	
	Color temperature 12	5800 K	96..103	60..67	38..40.5	
	Color temperature 13	6100 K	104..111	68..6F	41..43.5	
	Color temperature 14	6500 K	112..119	70..77	44..46.5	
	Color temperature 15	6800 K	120..127	78..7F	47..49.5	
	Color temperature 16	7100 K	128..135	80..87	50..52.5	
	Color temperature 17	7500 K	136..143	88..8F	53..56	
	Color temperature 18	7800 K	144..151	90..97	56.5..59	
Color temperature 19	8280 K	152..255	98..FF	60..100		
6) C-white	Color mixing system - Cold white	0 - 100%	0..255	00..FF	0..100	
7) W-white	Color 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 ¹⁾	slow – fast	16..47	10..2F	6..18.5	
	Up-dimming then Shutter closing (random patterns) ¹⁾	slow – fast	48..79	30..4F	19..31	
	Shutter open then down-dimming (random patterns) ¹⁾	slow – fast	80..111	50..6F	32..43	
	Up-dimming then down-dimming (random patterns) ¹⁾	slow – fast	112..143	70..8F	44..56	
	Strobe effect pause	5s - 0.1s	144..199	90..C7	56.5..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 14		0..3	00..03	0..1	
	Pattern Block 2 → channel 14		4..7	04..07	1.5..2.5	
	Dimmer in Soft-Mode		20..29	14..1D	7.5..11	
	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

Channel	Function	Time and Value	DMX	HEX	%	
		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	
		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	Continuous Zoom, wide - narrow (spot)	50° - 7°	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 15-17	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	

Compress-Mode 12 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) Color temperature	Noch zu vermessen !!		0..7	00..07	0..2.5
	Color temperature 1	2800 K	8..15	08..0F	3..5.5
	Color temperature 2	3000 K	16..23	10..17	6..8.5
	Color temperature 3	3200 K	24..31	18..1F	9..12.5
	Color temperature 4	3500 K	32..39	20..27	13..15.5

Channel	Function	Time and Value	DMX	HEX	%
	Color temperature 5	3800 K	40..47	28..2F	16..18.5
	Color temperature 6	4200 K	48..55	30..37	19..21.5
	Color temperature 7	4500 K	56..63	38..3F	22..24.5
	Color temperature 8	4800 K	64..71	40..47	25..27.5
	Color temperature 9	5000 K	72..79	48..4F	28..30.5
	Color temperature 10	5200 K	80..87	50..57	31..34.5
	Color temperature 11	5600 K	88..95	58..5F	35..37.5
	Color temperature 12	5800 K	96..103	60..67	38..40.5
	Color temperature 13	6100 K	104..111	68..6F	41..43.5
	Color temperature 14	6500 K	112..119	70..77	44..46.5
	Color temperature 15	6800 K	120..127	78..7F	47..49.5
	Color temperature 16	7100 K	128..135	80..87	50..52.5
	Color temperature 17	7500 K	136..143	88..8F	53..56
	Color temperature 18	7800 K	144..151	90..97	56..59
	Color temperature 19	8280 K	152..255	98..FF	60..100
6) C-white	Color mixing system - Cold white	0 - 100%	0..255	00..FF	0..100
7) W-white	Color 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 ¹⁾	slow – fast	16..47	10..2F	6..18.5
	Up-dimming then Shutter closing (random patterns) ¹⁾	slow – fast	48..79	30..4F	19..31
	Shutter open then down-dimming (random patterns) ¹⁾	slow – fast	80..111	50..6F	32..43
	Up-dimming then down-dimming (random patterns) ¹⁾	slow – fast	112..143	70..8F	44..56
	Strobe effect pause	5s - 0.1s	144..199	90..C7	56.5..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) Zoom	Continuous Zoom, wide - narrow (spot)	50° - 7°	0..255	0..FF	0..100
11) Special	Pattern Block 1 → channel 12		0..3	00..03	0..1
	Pattern Block 2 → channel 12		4..7	04..07	1.5..2.5
	Change PWM frequency		100..200	64..C8	40..78
	RESET		250..255	FA..FF	98..100
12) Pattern	No pattern		0..2	00..02	0..1
	250 pre-defined patterns (see appendix A)		03..253	03..FD	2..99

High Resolution (Extended) -Mode 18 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) Color temperature	Noch zu vermessen !!		0..7	00..07	0..2..5
	Color temperature 1	2800 K	8..15	08..0F	3..5.5
	Color temperature 2	3000 K	16..23	10..17	6..8.5
	Color temperature 3	3200 K	24..31	18..1F	9..12.5

Channel	Function	Time and Value	DMX	HEX	%
	Color temperature 4	3500 K	32..39	20..27	13..15.5
	Color temperature 5	3800 K	40..47	28..2F	16..18.5
	Color temperature 6	4200 K	48..55	30..37	19..21.5
	Color temperature 7	4500 K	56..63	38..3F	22..24.5
	Color temperature 8	4800 K	64..71	40..47	25..27.5
	Color temperature 9	5000 K	72..79	48..4F	28..30.5
	Color temperature 10	5200 K	80..87	50..57	31..34.5
	Color temperature 11	5600 K	88..95	58..5F	35..37.5
	Color temperature 12	5800 K	96..103	60..67	38..40.5
	Color temperature 13	6100 K	104..111	68..6F	41..43.5
	Color temperature 14	6500 K	112..119	70..77	44..46.5
	Color temperature 15	6800 K	120..127	78..7F	47..49.5
	Color temperature 16	7100 K	128..135	80..87	50..52.5
	Color temperature 17	7500 K	136..143	88..8F	53..56
	Color temperature 18	7800 K	144..151	90..97	56..59
	Color temperature 19	8280 K	152..255	98..FF	60..100
6) C-white High	Color mixing system - Cold white	0 - 100%	0..255	00..FF	0..100
7) C-white Low	Color mixing system - Cold white		0..255	00..FF	0..100
8) W-white High	Color mixing system - Warm white	0 - 100%	0..255	00..FF	0..100
9) W-white Low	Color mixing system - Warm white		0..255	00..FF	0..100
10) Shutter	Shutter closed		0..15	00..0F	0..5.5
	Shutter pulse random ¹⁾	slow – fast	16..47	10..2F	6..18.5
	Up-dimming then Shutter closing (random patterns) ¹⁾	slow – fast	48..79	30..4F	19..31
	Shutter open then down-dimming (random patterns) ¹⁾	slow – fast	80..111	50..6F	32..43
	Up-dimming then down-dimming (random patterns) ¹⁾	slow – fast	112..143	70..8F	44..56
	Strobe effect pause	5s - 0.1s	144..199	90..C7	56.5..77
	Strobe effect slow - fast	1 Hz - 10 Hz	200..239	C8..EF	78..94
	Shutter open		240..255	F0..FF	95..100
11) Dimmer High	Continuous Dimmer	0 - 100%	0..255	0..FF	0..100
12) Dimmer Low	Continuous Dimmer		0..255	0..FF	0..100
13) Zoom	Continuous Zoom, wide - narrow (spot)	50° - 7°	0...255	00...FF	0...100
14) Special	Pattern Block 1 → channel 14		0..3	00..03	0..1
	Pattern Block 2 → channel 14		4..7	04..07	1.5..2.5
	Dimmer in Soft-Mode		20..29	14..1D	7.5..11
	Change PWM frequency		100..200	64..C8	40..78
	RESET		250..255	FA..FF	98..100
15) 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 16-18	254..255	FE..FF	100
16) Pattern Byte 1	Direct access to Pattern of LED 1..8		0...255	00...FF	0...100
17) Pattern Byte 2	Direct access to Pattern of LED 9..16		0...255	00...FF	0...100

Channel	Function	Time and Value	DMX	HEX	%
18) Pattern Byte 3	Direct access to Pattern of LED 17..19		0..07	00...07	0..2.5

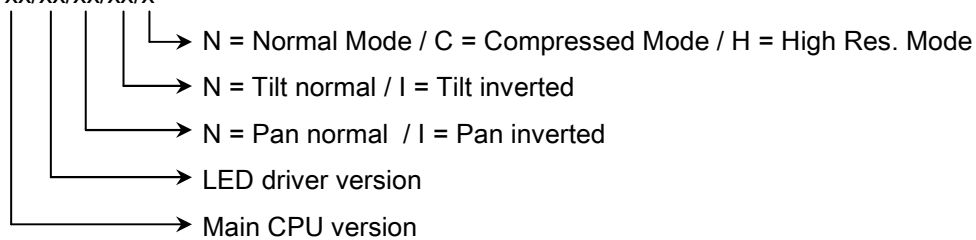
Locking and unlocking the Control Panel

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:

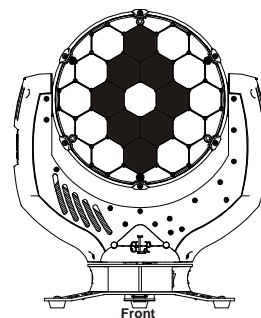
Vxx/xx/xx/xx/x



Patterns Set 1 & 2

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	
012	

DMX	Pattern
013	
014	
015	
016	
017	
018	
019	
020	
021	
022	
023	
024	
025	

DMX	Pattern
026	
027	
028	
029	
030	
031	
032	
033	
034	
035	
036	
037	
038	

DMX	Pattern
039	
040	
041	
042	
043	
044	
045	
046	
047	
048	
049	
050	
051	

DMX	Pattern	DMX	Pattern	DMX	Pattern	DMX	Pattern
052		069		086		103	
053		070		087		104	
054		071		088		105	
055		072		089		106	
056		073		090		107	
057		074		091		108	
058		075		092		109	
059		076		093		110	
060		077		094		111	
061		078		095		112	
062		079		096		113	
063		080		097		114	
064		081		098		115	
065		082		099		116	
066		083		100		117	
067		084		101		118	
068		085		102		119	

DMX	Pattern
120	
121	
122	
123	
124	
125	
126	
127	
128	
129	
130	
131	
132	
133	
134	
135	
136	

DMX	Pattern
137	
138	
139	
140	
141	
142	
143	
144	
145	
146	
147	
148	
149	
150	
151	
152	
153	

DMX	Pattern
154	
155	
156	
157	
158	
159	
160	
161	
162	
163	
164	
165	
166	
167	
168	
169	
170	

DMX	Pattern
171	
172	
173	
174	
175	
176	
177	
178	
179	
180	
181	
182	
183	
184	
185	
186	
187	

DMX	Pattern
188	
189	
190	
191	
192	
193	
194	
195	
196	
197	
198	
199	
200	
201	
202	
203	
204	

DMX	Pattern
205	
206	
207	
208	
209	
210	
211	
212	
213	
214	
215	
216	
217	
218	
219	
220	
221	

DMX	Pattern
222	
223	
224	
225	
226	
227	
228	
229	
230	
231	
232	
233	
234	
235	
236	
237	
238	

DMX	Pattern
239	
240	
241	
242	
243	
244	
245	
246	
247	
248	
249	
250	
251	
252	
253	reserved
254	reserved
255	reserved

Patterns Set 2

DMX	Pattern	DMX	Pattern	DMX	Pattern	DMX	Pattern
000		017		033		049	
001		018		034		050	
002		019		035		051	
003		020		036		052	
004		021		037		053	
005		022		038		054	
006		023		039		055	
007		024		040		056	
008		025		041		057	
009		026		042		058	
010		027		043		059	-
011		028		044			
012		029		045			
013		030		046			
014		031		047			
015		032		048			
016							

