

## DMX MODE

<i>DMX Channel</i>	<i>Standard</i>	<i>Shape</i>	<i>Advanced</i>
1	LAYER 1 RED	LAYER 1 RED	RED
2	LAYER 1 GREEN	LAYER 1 RED FINE	GREEN
3	LAYER 1 BLUE	LAYER 1 GREEN	BLUE
4	LAYER 1 WHITE	LAYER 1 GREEN FINE	WHITE
5	LAYER 1 CTO	LAYER 1 BLUE	CTO
6	MACRO COLOUR	LAYER 1 BLUE FINE	L1 SHUTTER
7	MASTER SHUTTER	LAYER 1 WHITE	L1 DIMMER
8	MASTER DIMMER	LAYER 1 WHITE FINE	MASTER SHUTTER
9	MASTER DIMMER FINE	LAYER 1 CTO	MASTER DIMMER
10	TILT	MACRO COLOUR	MASTER DIMMER FINE
11	TILT FINE	LAYER 1 BACKGROUND SHUTTER	TILT
12	ZOOM1	LAYER 1 BACKGROUND DIMMER	TILT FINE
13	ZOOM2	MASTER SHUTTER	ZOOM1
14	FUNCTION	MASTER DIMMER	ZOOM2
15	RESET	MASTER DIMMER FINE	LAYER SELECTION
16	FREQ	TILT	LAYER CROSSFADE
17	-	TILT FINE	FUNCTION
18	-	ZOOM1	RESET
19	-	ZOOM2	FREQ
20	-	FUNCTION	LAYER 2 RED
21	-	RESET	LAYER 2 GREEN
22	-	FREQ	LAYER 2 BLUE
23	-	LAYER 2 SHAPE RED	LAYER 2 WHITE
24	-	LAYER 2 SHAPE GREEN	LAYER 2 CTO
25	-	LAYER 2 SHAPE BLUE	LAYER 2 SHUTTER
26	-	LAYER 2 SHAPE WHITE	LAYER 2 DIMMER
27	-	LAYER 2 SHAPE CTO	LAYER 2 PATTERN MODE
28	-	LAYER 2 FOREGROUND SHUTTER	LAYER 2 PATTERN SELECTION
29	-	LAYER 2 FREGROUND DIMMER	LAYER 2 PATTERN SPEED
30	-	LAYER 2 SHAPE MODE	LAYER 2 PATTERN FADE
31	-	LAYER 2 SHAPE SELECTION	LAYER 2 PATTERN TRANSITION
32	-	LAYER 2 SHAPE SPEED	L3 SHUTTER
33	-	LAYER 2 SHAPE FADE	L3 DIMMER
34	-	LAYER 2 SHAPE TRANSITION	-

## PIXEL ENGINE MODE

<i>DMX Channel</i>	<i>Pixels RGB</i>		<i>DMX Channel</i>	<i>Pixels RGBW</i>
1	Red 1		1	Red 1
2	Green 1		2	Green 1
3	Blue 1		3	Blue 1
4	Red 2		4	White 1
5	Green 2		5	Red 2
6	Blue 2		6	Green 2
7	Red 3		7	Blue 2
8	Green 3		8	White 2
9	Blue 3		9	Red 3
10	Red 4		10	Green 3
11	Green 4		11	Blue 3
12	Blue 4		12	White 3
13	Red 5		13	Red 4
14	Green 5		14	Green 4
15	Blue 5		15	Blue 4
16	Red 6		16	White 4
17	Green 6		17	Red 5
18	Blue 6		18	Green 5
19	Red 7		19	Blue 5
20	Green 7		20	White 5
21	Blue 7		21	Red 6
22	Red 8		22	Green 6
23	Green 8		23	Blue 6
24	Blue 8		24	White 6
25	Red 9		25	Red 7
26	Green 9		26	Green 7
27	Blue 9		27	Blue 7
28	Red 10		28	White 7
29	Green 10		29	Red 8
30	Blue 10		30	Green 8
-	-		31	Blue 8
-	-		32	White 8
-	-		33	Red 9
-	-		34	Green 9
-	-		35	Blue 9
-	-		36	White 9
-	-		37	Red 10
-	-		38	Green 10
-	-		39	Blue 10
-	-		40	White 10

## FUNCTIN DETAILS

CHANNEL			DMX DEFAULT VALUE	DMX VALUE	FUNCTION	
STANDARD	SHAPE	ADVANCED				
1	1	1	000		<b>RED</b>	
				000 - 255	Linear 0 – 100%	
-	2	-	000		<b>RED FINE</b>	
				000 - 255	Linear Fine Red (16 Bit)	
2	3	2	000		<b>GREEN</b>	
				000 - 255	Linear 0 – 100%	
-	4	-	000		<b>GREEN FINE</b>	
				000 - 255	Linear Fine Green (16 Bit)	
3	5	3	000		<b>BLUE</b>	
				000 - 255	Linear 0 – 100%	
-	6	-	000		<b>BLUE FINE</b>	
				000 - 255	Linear Fine Blue (16 Bit)	
4	7	4	000		<b>WHITE</b>	
				000 - 255	Linear 0 – 100%	
-	8	-	000		<b>WHITE FINE</b>	
				000 - 255	Fine White (16 Bit)	
5	9	5	000		<b>CTO</b>	
				000 - 255	8000K to 2500K	<b>CTO Mode → Calibrated White</b>
				000 - 009	Deactivated	
			010 - 255	8000K to 2500K	<b>CTO Mode → RAW</b>	

CHANNEL			DMX DEFAULT VALUE	DMX VALUE	FUNCTION
STANDARD	SHAPE	ADVANCED			
6	10	-	000		<b>MACRO COLOUR</b>
				000 - 009	No macro colour
				010	Red
				011	Green
				012	Blue
				013	Cyan
				014	Yellow
				015	Magenta
				016	White 7000K
				017	White 3700K
				018	White 5000K
				019	Black
				020 - 022	Medium Yellow
				023 - 026	Straw Tint
				027 - 028	Surprise Peach
				029	Fire
				030	Medium Amber
				031	Gold Amber
				032 - 34	Dark Amber
				035 - 44	Sunrise Red
				045	Light Pink
				046 - 048	Medium Pink
				049 - 061	Pink Carnation
				062 - 067	Light Lavender
				068 - 077	Lavender
				078 - 088	Sky Blue
				089 - 099	Just Blue
				100 - 109	Dark Yellow green
				110 - 111	Spring Yellow
				112	Light Amber
				113	Straw
				114	Deep Amber
				115 - 116	Orange
				117	Light Rose
				118	English Rose
				119	Light Salmon
				120	Middle Rose
				121 - 122	Dark Pink
				123 - 124	Magenta
				125	Peacock Blue
				126	Med Blue Green
				127	Steel Blue
				128	Light Blue
				129 - 130	Dark Blue
				131 - 133	Leaf Green
				134 - 135	Dark Green
				136 - 137	Mauve
				138 - 141	Bright Pink
142 - 144	Medium Blue				
145	Deep Golden Amber				
146	Pale Lavender				
147 - 148	Special lavender				
149 - 150	Primary Green				
151 - 156	Bright Blue				
157 - 161	Apricot				
162 - 167	Pale Gold				
168 - 171	Deep Orange				
172 - 173	Bastard Amber				
174	Flame Red				
175 - 178	Daylight Blue				
179	Lilac Tint				
180 - 183	Deep Lavender				
184 - 190	Dark Steel Blue				
191 - 206	Congo Blue				
207	Alice Blue				
208	Dirty White				
209 - 255	White				

CHANNEL			DMX DEFAULT VALUE	DMX VALUE	FUNCTION
STANDARD	SHAPE	ADVANCED			
-	11	6	255		<b>BACKGROUND LAYER 1 SHUTTER</b>
				000 - 003	Light OFF
				004 - 103	Strobe frequency from Slow (1 flash/sec) to Fast (25 flash/sec)
				104 - 107	Light ON
				108 - 207	Pulsation frequency from slow (1 flash/sec) to Fast (25 flash/sec)
				208 - 212	Light ON
				213 - 225	Random Strobe at low frequency
				226 - 238	Random Strobe at medium frequency
				239 - 251	Random Strobe at high frequency
	252 - 255	Light ON			
-	12	7	000		<b>BACKGROUND LAYER 1 DIMMER</b>
				000 - 255	Linear 0 – 100%
7	13	8	255		<b>MASTER SHUTTER</b>
				000 - 003	Light OFF
				004 - 103	Strobe frequency from Slow (1 flash/sec) to Fast (25 flash/sec)
				104 - 107	Light ON
				108 - 207	Pulsation frequency from slow (1 flash/sec) to Fast (25 flash/sec)
				208 - 212	Light ON
				213 - 225	Random Strobe at slow frequency
				226 - 238	Random Strobe at medium frequency
				239 - 251	Random Strobe at fast frequency
	252 - 255	Light ON			
8	14	9	000		<b>MASTER DIMMER</b>
				000 - 255	Linear 0 – 100%
9	15	10	000		<b>MASTER DIMMER FINE</b>
				000 - 255	Linear Fine Dimmer
10	16	11	128		<b>TILT</b>
				000 - 255	Fixture positioning
11	17	12	128		<b>TILT FINE</b>
				000 - 255	Fine Fixture positioning
12	18	13	000		<b>ZOOM1</b>
				000 - 255	Zoom 1 lenses positioning
13	19	14	000		<b>ZOOM2</b>
				000 - 255	Zoom 2 lenses positioning
-	-	15			<b>LAYER PRIORITY</b>
				000 - 255	TBD

CHANNEL			DMX DEFAULT VALUE	DMX VALUE	FUNCTION
STANDARD	SHAPE	ADVANCED			
-	-	16	000		<b>LAYER BLENDING</b>
				000 - 255	TBD
					<b>FUNCTION</b>
				000 - 001	Free
				002 - 003	Fan AUTO mode
				004 - 007	Fan THEATRE mode
				008 - 009	Fan BOOST mode
				010 - 011	Fan STANDARD mode
				012 - 024	Free
				025 - 037	Free
				038 - 042	Total Zoom ON
				043 - 047	Total Zoom OFF
				048 - 052	Free
				053 - 057	Zoom Swap OFF
				058 - 062	Zoom Swap ON
				063 - 065	Display ON
				066 - 067	Display OFF
				068 - 072	Reverse mapping OFF
				073 - 077	Reverse mapping ON
				078 - 080	Setting LED calibration by RGBW pixels mapping channels
				081 - 083	Save actual LED calibration as "custom calibration"
				084 - 086	Set "custom calibration" preset
				087 - 089	Set "full calibration" preset (all LEDs are calibrated at 255 DMX value)
14	20	17	000	090 - 092	Set "factory calibration" preset
				093 - 097	Pixels Mapping Disable
				098 - 102	RGB (Pixels Mapping Enable)
				103 - 105	RGBW (Pixels Mapping Enable)
				106 - 120	Free
				121 - 130	Freq. 0 (36.5 – 73.5 kHz)
				131 - 140	Freq. 1 (18.2 – 36.5 kHz)
				141 - 150	Freq. 2 (9.19 – 18.2 kHz)
				151 - 160	Freq. 3 (4.55 – 9.19 kHz)
				161 - 170	Freq. 4 (2.27 – 4.55 kHz)
				171 - 180	Freq. 5 (1.14 – 2.27 kHz)
				181 - 183	Dimmer curve 1
				184 - 187	Dimmer curve 2
				188 - 190	Dimmer curve 3
				191 - 193	Dimmer curve 4
				194 - 197	Dimmer curve 5
				198 - 200	Dimmer curve 6
				198 - 255	Free
				<b>The ranges function of fans mode and frequency ranges are activated after 5 seconds in required levels</b>	

CHANNEL			DMX DEFAULT VALUE	DMX VALUE	FUNCTION
STANDARD	SHAPE	ADVANCED			
15	21	18	000		<b>RESET</b>
				000 - 025	Unused Range
				128 - 255	Complete Reset
					<b>Each reset is activated passing through the unused range and staying 5 seconds in required levels</b>
16	22	19	000		<b>FREQUENCY</b>
				000 - 255	Light PWM frequency
-	23	20	255		<b>LAYER 2 RED</b>
				000 - 255	Linear 0 – 100%
-	24	21	255		<b>LAYER 2 GREEN</b>
				000 - 255	Linear 0 – 100%
-	25	22	255		<b>LAYER 2 BLUE</b>
				000 - 255	Linear 0 – 100%
-	26	23	255		<b>LAYER 2 WHITE</b>
				000 - 255	Linear 0 – 100%
-	27	24	000		<b>SHAPE LAYER 2 CTO</b>
				000 - 255	8000K to 2500K
				000 - 009	Deactivated
				010 - 255	8000K to 2500K
-	28	25	255		<b>FOREGROUND LAYER 2 SHUTTER</b>
				000 - 003	Light OFF
				004 - 103	Strobe frequency from Slow (1 flash/sec) to Fast (25 flash/sec)
				104 - 107	Light ON
				108 - 207	Pulsation frequency from slow (1 flash/sec) to Fast (25 flash/sec))
				208 - 212	Light ON (L2 slave)
				213 - 225	Random Strobe at low frequency
				226 - 238	Random Strobe at medium frequency
				239 - 251	Random Strobe at high frequency
				252 - 255	Light ON (L2 Master)
					<b>the shutter effect in this case refers only to the background</b>
-	29	26	255		<b>FOREGROUND LAYER 2 DIMMER</b>
				000 - 255	Linear 0 – 100%
-	30	27	000		<b>LAYER 2 SHAPE/PATTERN MODE</b>
				000 - 006	Normal Mode
				007 - 130	Static Mode
				131 - 255	Dynamic Mode

CHANNEL			DMX DEFAULT VALUE	DMX VALUE	FUNCTION
STANDARD	SHAPE	ADVANCE D			
-	31	28	000	000 - 255	<b>LAYER 2 SHAPE/PATTERN SELECTION</b> Change shape pattern
-	32	29	000	000 - 255	<b>LAYER 2 SHAPE/PATTERN SPEED</b> Indexing (in Static mode)
-	32	29	000	000 - 124	Speed control fast to slow, forward (in Dynamic mode)
-	32	29	000	125 - 130	Stop (in Dynamic mode)
-	32	29	000	131 - 255	Speed control slow to fast, Backward (in Dynamic mode)
-	33	30	000	000 - 127	<b>LAYER 2 SHAPE/PATTERN FADE</b> Fade In/Out
-	33	30	000	128 - 255	Fade Out
-	34	31	000	000 - 255	<b>LAYER 2 SHAPE/PATTERN TRANSITION</b> Crossfade between layers/pattern (0: instant transition - 255: 3 seconds transition) ONLY ON LAYER MODE
-	-	32	000	000 - 003	<b>L3 SHUTTER</b> Light OFF
-	-	32	000	004 - 103	Strobe frequency from Slow (1 flash/sec) to Fast (25 flash/sec)
-	-	32	000	104 - 107	Light ON
-	-	32	000	108 - 207	Pulsation frequency from slow (1 flash/sec) to Fast (25 flash/sec)
-	-	32	000	208 - 212	Light ON (L3 Slave)
-	-	32	000	213 - 225	Random Strobe at low frequency
-	-	32	000	226 - 238	Random Strobe at medium frequency
-	-	32	000	239 - 251	Random Strobe at high frequency
-	-	32	000	252 - 255	Light ON (L3 Master)
<b>the shutter effect in this case refers only to the LAYER 3</b>					
-	-	33	000	000 - 255	<b>L3 DIMMER</b> Linear 0 – 100%