



The fixture has four different operating modes: Basic RGBW, Basic RGBW 16bit, Extended RGBW and Extended RGBW 16bit.

The Basic mode has the single colour control of the LEDs, while the Extended mode has the possibility to control different section of the Leds so is possible to manage independently the colours of the external ring and the central led.

In addition we also have a Record mode that allow to store inside the fixtures different Scene.

**NOTE:** The DMX map for the WW version is the same as the standard model.

**IMPORTANT:** To Unlock the display press the buttons sequence UP – DOWN – UP – DOWN – ENTER.

## DMX MODE

<i>DMX Mode</i>	<i>Number of Parameter</i>	<i>Colour Control</i>	<i>Notes</i>
Basic RGBW	13	RGBW 8bit	Colour control as single layer.
Basic RGBW 16bit	17	RGBW 16bit	Colour control in as single layer.
Extended RGBW (Default setting)	17	RGBW 8bit	Colour control for the external ring and central led.
Extended RGBW 16bit	25	RGBW 16bit	Colour control for the external ring and central led.
Record Mode	12	RGBW 8bit	This mode is only to save inside the fixtures different Scene.

**IMPORTANT:** The Extended RGBW is the operating mode as default setting.

## DMX PROTOCOL

<b>DMX Parameter number</b>	<b>RGBW Mode</b>	<b>RGBW 16bit Mode</b>	<b>Extended RGBW Mode</b>	<b>Extended RGBW 16bit Mode</b>
<b>1</b>	Red	Red	Red ring led	Red ring led
<b>2</b>	Green	Red fine	Green ring led	Red ring led fine
<b>3</b>	Blue	Green	Blue ring led	Green ring led
<b>4</b>	White	Green fine	White ring	Green ring led fine
<b>5</b>	CTO	Blue	Red central led	Blue ring led
<b>6</b>	Macro color	Blue fine	Green central led	Blue ring led fine
<b>7</b>	Strobe effect	White	Blue central led	White ring led
<b>8</b>	Dimmer	White fine	White central led	White ring led fine
<b>9</b>	Dimmer fine	CTO	CTO	Red central led
<b>10</b>	Zoom	Macro color	Macro color	Red central led fine
<b>11</b>	Colour Crossfade	Strobe effect	Strobe effect	Green central led
<b>12</b>	Function	Dimmer	Dimmer	Green central led fine
<b>13</b>	Reset	Dimmer fine	Dimmer fine	Blue central led
<b>14</b>	-	Zoom	Zoom	Blue central led fine
<b>15</b>	-	Colour Crossfade	Colour Crossfade	White central led
<b>16</b>	-	Function	Function	White central led fine
<b>17</b>	-	Reset	Reset	CTO
<b>18</b>	-	-	-	Macro color
<b>19</b>	-	-	-	Strobe effect
<b>20</b>	-	-	-	Dimmer
<b>22</b>	-	-	-	Dimmer fine
<b>22</b>	-	-	-	Zoom
<b>23</b>	-	-	-	Colour Crossfade
<b>24</b>	-	-	-	Function
<b>25</b>	-	-	-	Reset

## FUNCTIONS DETAILS

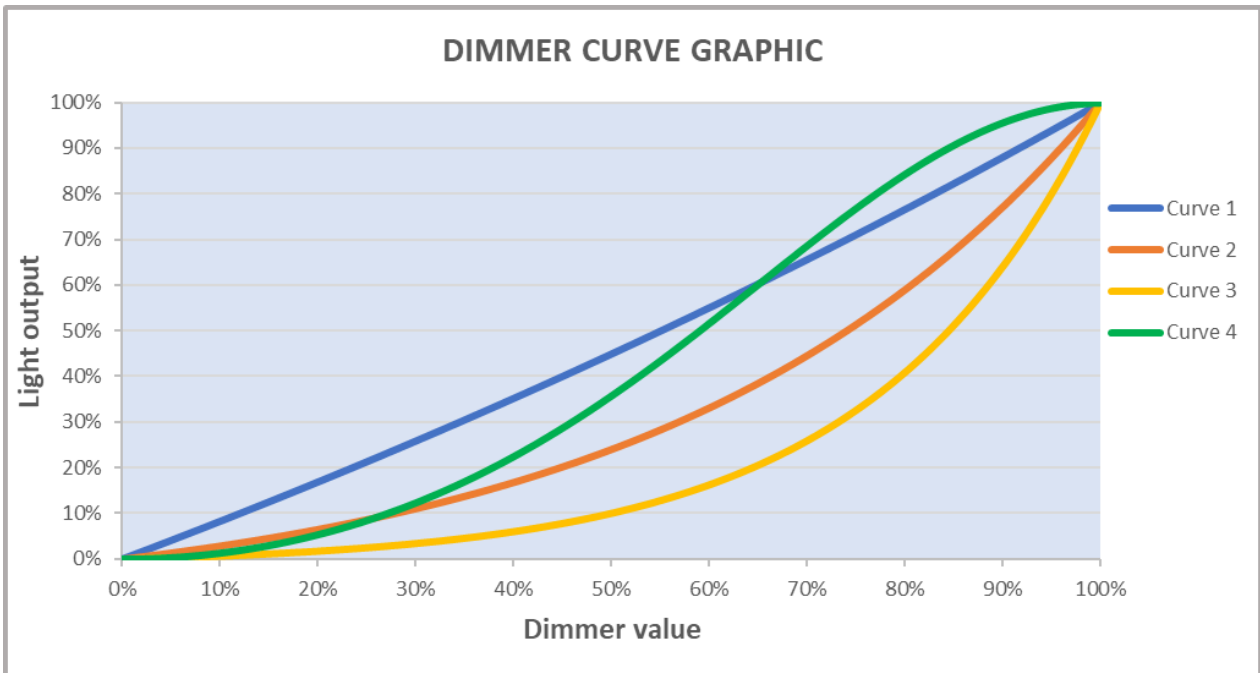
<i>RGBW</i>	<i>RGBW 16bit</i>	<i>Extended RGBW</i>	<i>Extended RGBW 16bit</i>	<i>Bit Value</i>	<i>Function</i>
<b>1</b>	<b>1</b>	-	-	<b>000 255</b>	<b>RED</b> Linear 0 – 100%
-	<b>2</b>	-	-	<b>000 - 255</b>	<b>RED FINE (16 Bit)</b>
<b>2</b>	<b>3</b>	-	-	<b>000 - 255</b>	<b>GREEN</b> Linear 0 – 100%
-	<b>4</b>	-	-	<b>000 - 255</b>	<b>GREEN FINE (16 Bit)</b>
<b>3</b>	<b>5</b>	-	-	<b>000 - 255</b>	<b>BLUE</b> Linear 0 – 100%
-	<b>6</b>	-	-	<b>000 - 255</b>	<b>BLUE FINE (16 bit)</b>
<b>4</b>	<b>7</b>	-	-	<b>000 - 255</b>	<b>WHITE</b> Linear 0 – 100%
-	<b>8</b>	-	-	<b>000 - 255</b>	<b>WHITE FINE (16 bit)</b>
-	-	<b>1</b>	<b>1</b>	<b>000 - 255</b>	<b>RED Ring</b> Linear 0 – 100%
-	-	-	<b>2</b>	<b>000 - 255</b>	<b>RED FINE Ring (16 BIT)</b>
-	-	<b>2</b>	<b>3</b>	<b>000 - 255</b>	<b>GREEN Ring</b> Linear 0 – 100%
-	-	-	<b>4</b>	<b>000 - 255</b>	<b>GREEN FINE Ring (16 BIT)</b>
-	-	<b>3</b>	<b>5</b>	<b>000 - 255</b>	<b>BLUE Ring</b> Linear 0 – 100%
-	-	-	<b>6</b>	<b>000 - 255</b>	<b>BLUE FINE Ring (16 BIT)</b>

RGBW	RGBW 16bit	Extended RGBW	Extended RGBW 16bit	Bit Value	Function
-	-	4	7	000 - 255	<b>WHITE Ring</b> Linear 0 – 100%
-	-	-	8	000 - 255	<b>WHITE FINE Ring (16 BIT)</b>
-	-	5 to 8	9 to 15	000 - 255	<b>RGBW Central led</b> Red (5 – 9) – Green (6 – 11) – Blue (7 - 13) – White (8 - 15) linear colour
-	-	-	10 to 16	000 - 255	<b>RGBW Central led</b> Red (10) – Green (12) – Blue (14) – White (16) central led fine (16bit)
5	9	9	17		<b>CTO</b> Colour Temperature control 8000K to 2700K Values 6500K to 2500K for WW version <b>Important:</b> The CTO parameter has priority on the colour functions.
				000-009	CTO OFF
				010-255	8000 K – 2700K (6500K -2500K for WW version)
6	10	10	18	000 -255	<b>MACRO COLOR</b> See chart page 8 for colours details. <b>Important:</b> The Macro Color parameter has priority on the colour functions.
					<b>STROBE EFFECT</b>
7	11	11	19	000 - 003	Closed
				004 - 103	Linear Strobe from slow (1Hz) to fast (25Hz)
				104 - 107	Open
				108 - 207	Linear pulsation from slow (0.5 Hz) to fast (25 Hz)
				208 - 212	Open
				213 - 225	Random Slow Strobe effect
				226 - 238	Random Medium Strobe effect
				239 - 251	Random Fast Strobe effect
252 - 255	Open				
8	12	12	20	000 - 255	<b>DIMMER</b> Linear 0 100%
9	13	13	21	000 - 255	<b>DIMMER FINE (16 bit)</b>

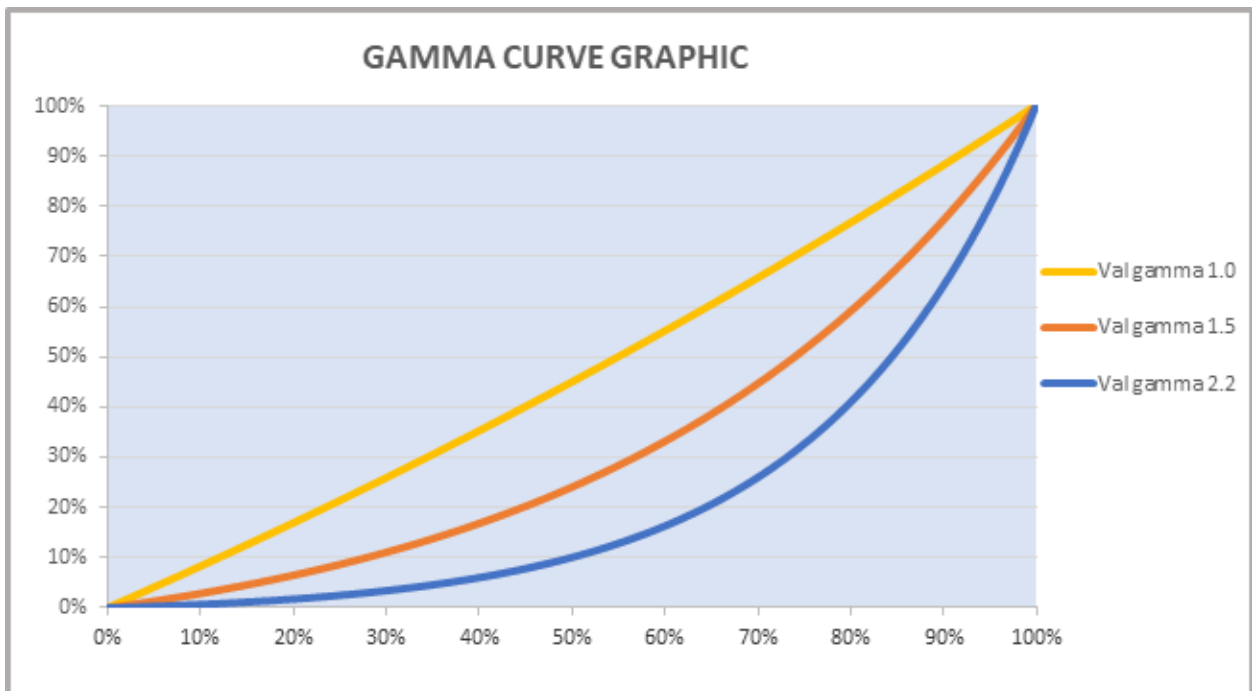
RGBW	RGBW 16bit	Extended RGBW	Extended RGBW 16bit	BIT Value	Function	
10	14	14	22	0 - 255	<b>ZOOM</b> Linear from narrow to wide	
11	15	15	23	0 - 255	<b>COLOUR CROSSFADE</b> Crossfade time from fast to slow	
12	16	16	24		<b>FUNCTION</b> <b>Important:</b> The setting are activated and saved holding the DMX level for three seconds.	
				0 - 11	Unused range	
				12 - 17	Auto ( <b>Default</b> )	→ Fan mode settings
				18 - 24	SLN	
				25 - 31	Constant	
				32 - 37	Theatre	
				38 - 42	Dimmer curve Linear ( <b>Default</b> )	Details at page 7
				43 - 47	Dimmer curve Quadratic	
				48 - 52	Dimmer curve Square	
				53 - 55	Dimmer curve Sine Wave	
				56 - 57	Dimmer curve Sync Linear	Details at page 7
				58 - 62	Raw color channels gamma 1	
				63 - 67	Raw color channels gamma 1.5	
				68 - 72	Raw color channels gamma 2.2 ( <b>Default</b> )	
				73 - 77	Colour calibration Off ( <b>Default</b> )	
				78 - 82	Colour calibration adjustment	
				83 - 167	Not used	
				168-188	PWM frequency=600Hz	
				189-199	PWM frequency=1200Hz	
				200-210	PWM frequency=2000Hz ( <b>Default</b> )	
				211-221	PWM frequency=4000Hz	
				222-232	PWM frequency=6000Hz	
				233-243	PWM frequency=25000Hz	
244-248	Display OFF ( <b>Default</b> )					
249-253	Display ON					
254-255	Default function recall					
13	17	17	25		<b>RESET</b>	
				0 - 25	Unused range	
				26 - 76	Reset: The reset sequence is activated passing through the unused levels range and staying in this range for 5 seconds	
				77 - 255	Not used	

## RECORD MODE

DMX Paramter	Bit Value	Function
1	000 - 255	RED Linear 0 – 100%
2	000 - 255	GREEN Linear 0 – 100%
3	000 - 255	BLUE Linear 0 – 100%
4	000 - 255	WHITE Linear 0 – 100%
5		<b>CTO</b> Colour Temperature control 8000K to 2700K Values 6500K to 2500K for WW version
	000-009	OFF
	010-255	8000 K – 2700K (6500K -2500K for WW version)
6	000 - 255	<b>MACRO COLOR</b> (See chart page 8 for colours details).
7		<b>STROBE EFFECT</b>
	000 - 003	Closed
	004 - 103	Linear Strobe from slow (1Hz) to fast (25Hz)
	104 - 107	Open
	108 - 207	Linear pulsation from slow (0.5 Hz) to fast (25 Hz)
	208 - 212	Open
	213 - 225	Random Slow Strobe effect
	226 - 238	Random Medium Strobe effect
	239 - 251	Random Fast Strobe effect
252 - 255	Open	
8	000 - 255	<b>DIMMER</b> Linear 0 100%
9	000 - 255	<b>DIMMER FINE (16 bit)</b>
10	0 - 255	<b>ZOOM</b> Linear from narrow to wide
11	0 - 255	<b>COLOUR CROSSFADE</b> Crossfade time from fast to slow
12		<b>SCENE RECORD</b>
	000 - 099	OFF
	100 - 104	Scene 01
	105 - 109	Scene 02
	110 - 114	Scene 03
	115 - 119	Scene 04
	120 ...239	Scene from 05 to 28 every 4 Bit
	240 - 244	Scene 29
	245 - 249	Scene 30
	250 - 254	Scene 31
255 - 255	Scene 32	



**IMPORTANT NOTE:** Dimmer Curve 5 has all the Leds synchronized, for balanced behavior in white.



## MACRO COLOR

Bit value	LEE Filter reference	Function	Bit value	LEE Filter reference	Function
0-9	--	Macro Color OFF	126	116	Med Blu Green
10	--	Red	127	117	Steel Blue
11	--	Green	128	118	Light Blue
12	--	Blue	129-130	119	Dark Blue
13	--	Cyan	131-133	121	Leaf Green
14	--	Yellow	134-135	124	Dark Green
15	--	Magenta	136-137	126	Mauve
16	--	White 7000K	138-141	128	Bright Pink
17	--	White 3700K	142-144	132	Medium Blue
18	--	White 5000K	145	135	Deep Golden Amber
19	--	Black	146	136	Pale Lavender
20-22	10	Medium Yellow	147-148	137	Special Lavender
23-26	13	Straw Tint	149-150	139	Primary Green
27-28	17	Surprise Peach	151-156	141	Bright Blue
29	19	Fire	157-161	147	Apricot
30	20	Medium Amber	162-167	152	Pale Gold
31	21	Gold Amber	168-171	158	Deep Orange
32-34	22	Dark Amber	172-173	162	Bastard Amber
35-44	25	Sunrise Red	174	164	Flame Red
45	35	Light Pink	175-178	165	Daylight Blue
46-48	36	Medium Pink	179	169	Lilac Tint
49-61	39	Pink Carnation	180-183	170	Deep Lavender
62-67	52	Light Lavender	184-190	174	Dark Steel Blue
68-77	58	Lavender	191-206	181	Congo Blue
78-88	68	Sky Blue	207	197	Alice Blue
89-99	79	Just Blue	208	--	Dirty White
100-109	90	Dark Yellow Green	209-255	--	White
110-111	100	Spring Yellow			
112	102	Light Amber			
113	103	Straw			
114	104	Deep amber			
115-116	105	Orange			
117	107	Light Rose			
118	108	English Rose			
119	109	Light Salmon			
120	110	Middle Rose			
121-122	111	Dark Pink			
123-124	113	Magenta			
125	115	Peacock Blue			