

OPERATING MODES

The projector has 4 operating modes: Basic RGBW, Basic RGBW 16bit, Extended RGBW and Extended RGBW 16bit.

The Basic mode has the single control of all the LEDs, while the Extended mode has the control of the central LED in separated channels compare the circle LEDs.

DMX MODES

DMX Mode	Parameter	Color Control Mode	Notes
Basic RGBW	16	RGBW 8bit	All LEDs in 1 layer
Basic RGBW 16bit	20	RGBW 16bit	All LEDs in 1 layer
Extended RGB	20	RGBW 8bit	Centre and Circle LED in separated channels
Extended RGB 16bit	28	RGBW 16bit	Centre and Circle LED in separated channels

Channel	RGBW	RGBW 16bit	Extended RGB	Extended RGB 16bit
1	Red	Red	Red Circle	Red Circle
2	Green	Red fine	Green Circle	Red Circle fine
3	Blue	Green	Blue Circle	Green Circle
4	White	Green fine	White Circle	Green Circle fine
5	CTO	Blue	Red Centre	Blue Circle
6	Macro color	Blue fine	Green Centre	Blue Circle fine
7	Strobe	White	Blue Centre	White Circle
8	Dimmer	White fine	White Centre	White Circle fine
9	Dimmer fine	CTO	CTO	Red Centre
10	Pan	Macro color	Macro color	Red Centre fine
11	Pan fine	Strobe	Strobe	Green Centre
12	Tilt	Dimmer	Dimmer	Green Centre fine
13	Tilt fine	Dimmer fine	Dimmer fine	Blue Centre
14	Zoom	Pan	Pan	Blue Centre fine
15	Function	Pan fine	Pan fine	White Centre
16	Reset	Tilt	Tilt	White Centre fine
17	-	Tilt fine	Tilt fine	CTO
18	-	Zoom	Zoom	Macro color
19	-	Function	Function	Strobe
20	-	Reset	Reset	Dimmer
21	-	-	-	Dimmer fine
22	-	-	-	Pan
23	-	-	-	Pan fine
24	-	-	-	Tilt
25	-	-	-	Tilt fine
26	-	-	-	Zoom
27	-	-	-	Function
28	-	-	-	Reset

BASIC MODE

RGBW	RGBW 16bit	DMX value	Function
1	1		RED
		0 - 255	Red colour linearly increases from no-light to maximum intensity
-	2		RED FINE
		0 - 255	Red colour linearly increases from no-light to maximum intensity
2	3		GREEN
		0 - 255	Green colour linearly increases from no-light to maximum intensity
-	4		GREEN FINE
		0 - 255	Green colour linearly increases from no-light to maximum intensity
3	5		BLUE
		0 - 255	Blue colour linearly increases from no-light to maximum intensity
-	6		BLUE FINE
		0 - 255	Blue colour linearly increases from no-light to maximum intensity
4	7		WHITE
		0 - 255	White colour linearly increases from no-light to maximum intensity
-	8		WHITE FINE
		0 - 255	White colour linearly increases from no-light to maximum intensity
5	9		CTO
			Colour Temperature linearly change from 8000K to 2500K
		0-9	Unused range
		10 ...	8000 K
		54 ...	7000 K
		99 ...	6000 K
		117 ...	5600 K
		144 ...	5000 K
		188 ...	4000 K
		224 ...	3200 K
255	2500 K		
6	10		MACRO COLOR
		0 - 255	See chart page 10-11

RGBW	RGBW 16bit	DMX value	Function
7	11		STROBE
		0 - 3	Light OFF
		4 - 103	Strobe at linearly variable frequency from low (1Hz) to fast (25Hz)
		104 - 107	Light ON
		108 - 207	Pulsation at linearly variable speed from slow (0.5 Hz) to fast (25 Hz)
		208 - 212	Light ON
		213 - 225	Random Slow Strobe
		226 - 238	Random Medium Strobe
		239 - 251	Random Fast Strobe
		252 - 255	Light ON
8	12		DIMMER
		0 - 255	Light output linearly increases from off to maximum brightness
9	13		DIMMER FINE
		0 - 255	Fine Dimmer positioning
10	14		PAN
		0 - 255	Pan movement/positioning <<< counter-clockwise from 0° to 540° (invert Pan=Off; Invert Tilt=Off)
11	15		PAN FINE
		0 - 255	Fine Pan positioning
12	16		TILT
		0 - 255	Tilt movement/positioning >>>> clockwise from 0° to 210° (invert Pan=Off; Invert Tilt=Off)
13	17		TILT FINE
		0 - 255	Fine Tilt positioning
14	18		ZOOM
		0 - 255	Zoom linearly moves from narrow to wide beam

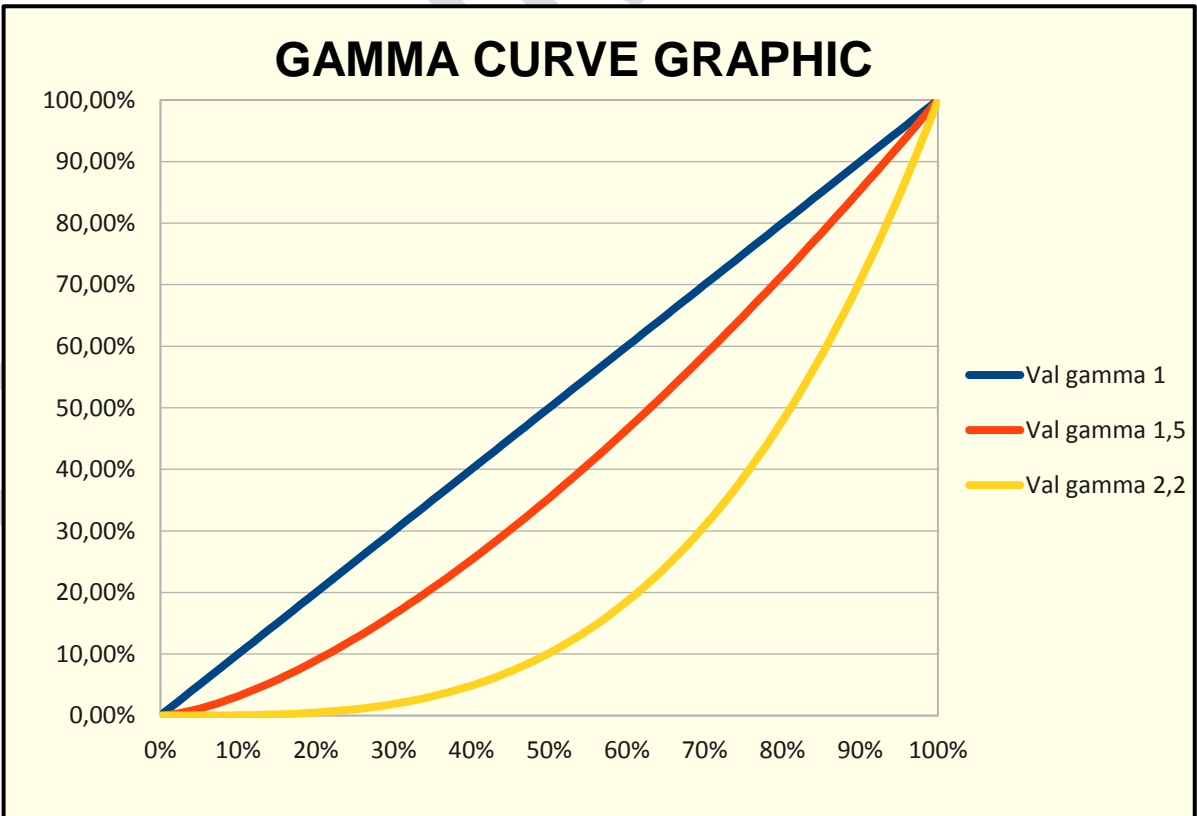
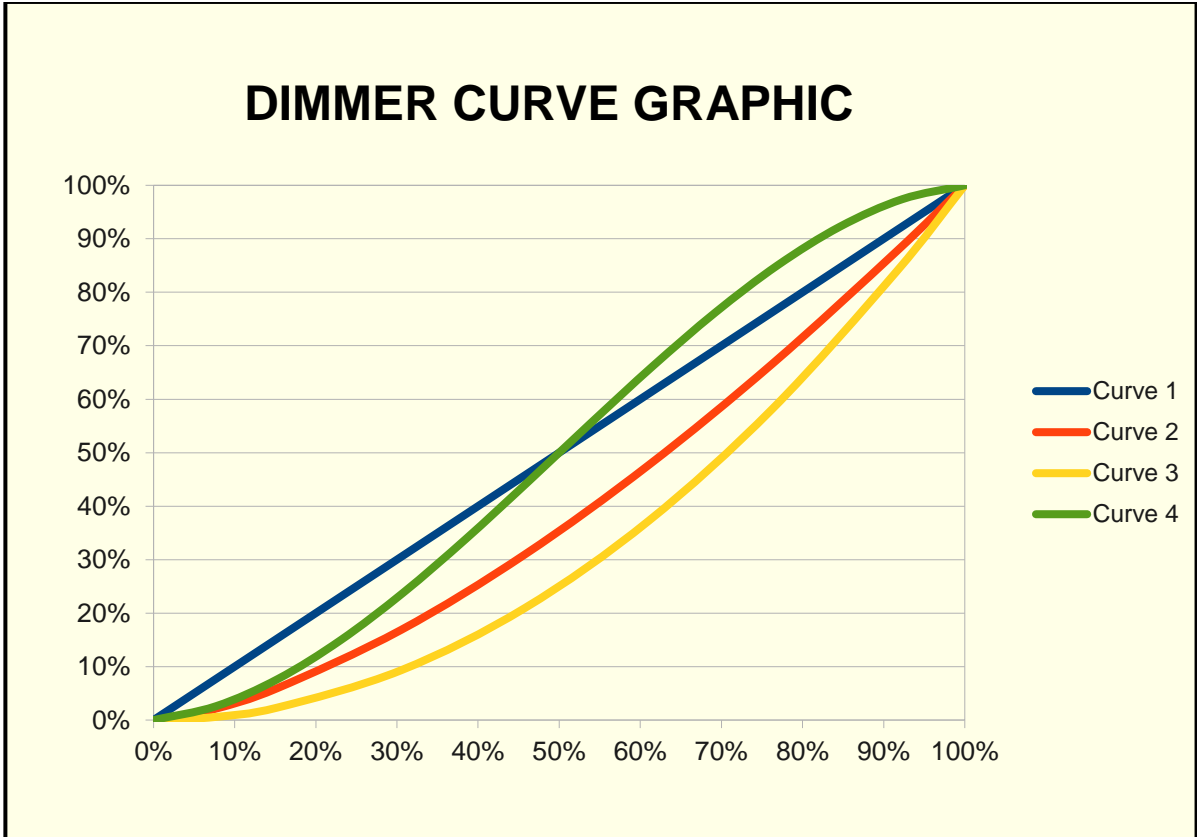
RGBW	RGBW 16bit	DMX value	Function	
15	19		FUNCTION	
		0 - 11	Unused range	
		12 - 24	Fast P&T speed (Default)	
		25 - 37	Normal P&T speed	
		38 - 42	Dimmer curve 1 (Default)	Details at page 8
		43 - 47	Dimmer curve 2	
		48 - 52	Dimmer curve 3	
		53 - 57	Dimmer curve 4	
		58 - 62	Raw color channels gamma 1	Details at page 8
		63 - 67	Raw color channels gamma 1.5	
		68 - 72	Raw color channels gamma 2.2 (Default)	
		73-167	Free	
		178-188	Base frequency=600Hz	
		189-199	Base frequency=1200Hz (Default)	
		200-210	Base frequency=2000Hz	
		211-221	Base frequency=4000Hz	
		222-232	Base frequency=6000Hz	
		233-243	Base frequency=25000Hz	
244-255	Default function recall			
16	20		RESET	
		0 - 25	Unused range	
		26 - 76	Zoom Reset Zoom Reset sequence is activated passing through the unused levels range and staying in this range for 5 seconds	
		77 - 127	Pan / Tilt Reset Pan/Tilt Reset sequence passing through the unused levels range and staying in this range for 5 seconds.	
		128 - 255	Complete Reset All-effects Reset sequence passing through the unused levels range and staying in this range for 5 seconds.	

EXTENDED MODE

Extended RGBW	Extended RGBW16bit	DMX value	Function
1	1		RED CIRCLE
		0 - 255	Red colour linearly increases from no-light to maximum intensity
-	2		RED CIRCLE FINE
		0 - 255	Red colour linearly increases from no-light to maximum intensity
2	3		GREEN CIRCLE
		0 - 255	Green colour linearly increases from no-light to maximum intensity
-	4		GREEN CIRCLE FINE
		0 - 255	Green colour linearly increases from no-light to maximum intensity
3	5		BLUE CIRCLE
		0 - 255	Blue colour linearly increases from no-light to maximum intensity
-	6		BLUE CIRCLE FINE
		0 - 255	Blue colour linearly increases from no-light to maximum intensity
4	7		WHITE CIRCLE
		0 - 255	White colour linearly increases from no-light to maximum intensity
-	8		WHITE CENTRE FINE
		0 - 255	White colour linearly increases from no-light to maximum intensity
5	9		RED CENTRE
		0 - 255	Red colour linearly increases from no-light to maximum intensity
-	10		RED CENTRE FINE
		0 - 255	Red colour linearly increases from no-light to maximum intensity
6	11		GREEN CENTRE
		0 - 255	Green colour linearly increases from no-light to maximum intensity
-	12		GREEN CENTRE FINE
		0 - 255	Green colour linearly increases from no-light to maximum intensity
7	13		BLUE CENTRE
		0 - 255	Blue colour linearly increases from no-light to maximum intensity
-	14		BLUE CENTRE FINE
		0 - 255	Blue colour linearly increases from no-light to maximum intensity
8	15		WHITE CENTRE
		0 - 255	White colour linearly increases from no-light to maximum intensity

Extended RGBW	Extended RGBW16bit	DMX value	Function
-	16		WHITE CENTRE FINE
		0 - 255	White colour linearly increases from no-light to maximum intensity
9	17		CTO
			Colour Temperature linearly change from 8000K to 2500K
		0-9	Unused range
		10 ...	8000 K
		54 ...	7000 K
		99 ...	6000 K
		117 ...	5600 K
		144 ...	5000 K
		188 ...	4000 K
		224 ...	3200 K
	255	2500 K	
10	18		MACRO COLOR
		0 - 255	See chart page 9 / 10
11	19		STROBE
		0 - 3	Light OFF
		4 - 103	Strobe at linearly variable frequency from low (1Hz) to fast (25Hz)
		104 - 107	Light ON
		108 - 207	Pulsation at linearly variable speed from slow (0.5 Hz) to fast (25 Hz)
		208 - 212	Light ON
		213 - 225	Random Slow Strobe
		226 - 238	Random Medium Strobe
		239 - 251	Random Fast Strobe
		252 - 255	Light ON
12	20		DIMMER
		0 - 255	Light output linearly increases from off to maximum brightness
13	21		DIMMER FINE
		0 - 255	Fine Dimmer positioning
14	22		PAN
		0 - 255	Pan movement/positioning <<< counter-clockwise from 0° to 540° (invert Pan=Off; Invert Tilt=Off)
15	23		PAN FINE
		0 - 255	Fine Pan positioning
16	24		TILT
		0 - 255	Tilt movement/positioning >>>> clockwise from 0° to 210° (invert Pan=Off; Invert Tilt=Off)

Extended RGBW	Extended RGBW16bit	DMX value	Function	
17	25		TILT FINE	
		0 - 255	Fine Tilt positioning	
18	26		ZOOM	
		0 - 255	Zoom linearly moves from narrow to wide beam	
19	27		FUNCTION	
		0 - 11	Unused range	
		12 - 24	Fast P&T speed (Default)	
		25 - 37	Normal P&T speed	
		38 - 42	Dimmer curve 1 (Default)	Details at page 9
		43 - 47	Dimmer curve 2	
		48 - 52	Dimmer curve 3	
		53 - 57	Dimmer curve 4	
		58 - 62	Raw color channels gamma 1	Details at page 9
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		68 - 72	Raw color channels gamma 2.2 (Default)	
		73-167	Free	
		178-188	Base frequency=600Hz	
		189-199	Base frequency=1200Hz (Default)	
		200-210	Base frequency=2000Hz	
		211-221	Base frequency=4000Hz	
222-232	Base frequency=6000Hz			
233-243	Base frequency=25000Hz			
244-255	Default function recall			
20	28		RESET	
		0 - 25	Unused range	
		26 - 76	Zoom Reset Zoom Reset sequence is activated passing through the unused levels range and staying in this range for 5 seconds	
		77 - 127	Pan / Tilt Reset Pan/Tilt Reset sequence passing through the unused levels range and staying in this range for 5 seconds.	
128 - 255	Complete Reset All-effects Reset sequence passing through the unused levels range and staying in this range for 5 seconds.			



MACRO COLOR

DMX Value	LEE Filter	Description
0-9	--	Macro Color OFF
10	--	Red
11	--	Green
12	--	Blue
13	--	Cyan
14	--	Yellow
15	--	Magenta
16	--	White 7000K
17	--	White 3700K
18	--	White 5000K
19	--	Black
20-22	10	Medium Yellow
23-26	13	Straw Tint
27-28	17	Surprise Peach
29	19	Fire
30	20	Medium Amber
31	21	Gold Amber
32-34	22	Dark Amber
35-44	25	Sunrise Red
45	35	Light Pink
46-48	36	Medium Pink
49-61	39	Pink Carnation
62-67	52	Light Lavender
68-77	58	Lavender
78-88	68	Sky Blue
89-99	79	Just Blue
100-109	90	Dark Yellow Green
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

DMX Value	LEE Filter	Description
126	116	Med Blu Green
127	117	Steel Blue
128	118	Light Blue
129-130	119	Dark Blue
131-133	121	Leaf Green
134-135	124	Dark Green
136-137	126	Mauve
138-141	128	Bright Pink
142-144	132	Medium Blue
145	135	Deep Golden Amber
146	136	Pale Lavender
147-148	137	Special Lavender
149-150	139	Primary Green
151-156	141	Bright Blue
157-161	147	Apricot
162-167	152	Pale Gold
168-171	158	Deep Orange
172-173	162	Bastard Amber
174	164	Flame Red
175-178	165	Daylight Blue
179	169	Lilac Tint
180-183	170	Deep Lavender
184-190	174	Dark Steel Blue
191-206	181	Congo Blue
207	197	Alice Blue
208	--	Dirty White
209-255	--	White