

Klemantis AS1000 RGBW DMX Chart



OPERATING MODES

Klemantis RGBW has 4 operating modes:

DMX Mode	Parameter	Color Control Mode	RAW Mode
Basic RGB	15	RGB or CMY	Not available
Basic HSV	15	HSV	Not available
Extended RGB	23	RGB or CMY	RAW
Extended HSV	23	HSV	RAW

BASIC MODE

Note: With Basic mode selected is not possible to control the singles LEDs colour values of fixture (RAW mode).

Number	RGB (CMY)	HSV	Note
1	Red/Cyan	Hue	
2	Green/Magenta	Hue fine	
3	Blue/Yellow	Saturation	
4	CTO	CTO	Filter mode or White mode
5	Macro colours	Macro colours	
6	Strobe	Strobe	
7	Dimmer	Dimmer	
8	Dimmer fine	Dimmer fine	
9	X-Fade DF	X-Fade DF	Cross - Fade RGB/HSV to Digital Filter
10	X-Fade CTO	X-Fade CTO	Cross - Fade RGB/HSV to CTO
11	Fan	Fan	
12	Tint	Tint	
13	Function	Function	
14	Reset	Reset	
15	Frequency	Frequency	

DMX Chart

BASIC MODE

RGB	HSV	DMX value	Function
1	-		RED (RGB mode) / CYAN (CMY mode)
		000 - 255	Red/Cyan colour linearly increases from 0 to 100%
2	-		GREEN (RGB mode) / MAGENTA (CMY mode)
		000 - 255	Green/Magenta colour linearly increases from 0 to 100%
3	-		BLUE (RGB mode) / YELLOW (CMY mode)
		000 - 255	Blu/Yellow colour linearly increases from 0 to 100%
-	1		HUE
		000 - 255	Define target point color in the HSV
-	2		HUE FINE
		000 - 255	Fine Hue
-	3		SATURATION
		000 - 255	Saturation ranges linearly increase from 0% (white) to 100% (pure color)
4	4		CTO Linear Colour Temperature correction from 8000K to 2500K
		000	OFF
		001 ...	8000 K
		... 047 ...	7000 K
		... 093 ...	6000 K
		... 112 ...	5600 K
		... 139 ...	5000 K
		... 186 ...	4000 K
		... 222 ...	3200 K
		... 245 ...	2700 K
255	2500 K		
5	5		MACRO COLORS
		000 - 255	Filter selection from a pre-built library. Details at page 12/13
6	6		STROBE
		000 - 003	Light OFF
		004 - 103	Strobe linearly from low (1Hz) to fast (16Hz)
		104 - 107	Light ON
		108 - 207	Pulsation at linearly from slow (0.5 Hz) to fast (25 Hz)
		208 - 212	Light ON
		213 - 255	Random Slow Strobe
		226 - 238	Random Medium Strobe
		239 - 251	Random Fast Strobe
252 - 255	Light ON		

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RGB	HSV	DMX value	Function
7	7		DIMMER
		000 - 255	Dimmer linearly increase from 0 to 100%
8	8		DIMMER FINE
		000 - 255	Fine Dimmer
9	9		CROSS-FADE
		000 - 255	Cross Fade from RGB/HSV to Digital Filter
10	10		CROSS-FADE CTO
		000 - 255	Cross Fade from RGB/HSV to CTO
11	11		FAN
		000	OFF – Fan speed is auto regulated accordingly on the LEDs temperature.
		001 - 255	Fan linearly controlled from min speed (1 bit) to max speed (255 bit)
12	12		TINT
		000 - 127	Linear Tint setting, define target point correction from Magenta (0bit) to OFF
		128	Tint adjustment OFF (default setting)
		129 - 255	Linear Tint setting,5 define target point correction from OFF to Green (255 bit)

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DMX Chart

RGB	HSV	DMX value	Function	
13	13		FUNCTION To active selected functions stop in unused range for 5 sec Configuration setting remains active after power off.	
		000 - 011	Unused range	
		012 - 037	Reserved	
		038 - 042	Linear (Default)	Refer to page 11
		043 - 047	Square	
		048 - 052	Smooth Square	
		053 - 057	S Curve	
		058 - 062	Reserved	
		063 - 067	Reserved	
		068 - 072	Reserved	
		073 - 077	Halogen mode disabled (Default)	
		078 - 082	Halogen mode 1, 750 W lamp emulation	
		083 - 087	Halogen mode 2, 1000 W lamp emulation	
		088 - 092	Halogen mode 3, 1200 W lamp emulation	
		093 - 097	Halogen mode 4, 2000 W lamp emulation	
		098 - 102	Halogen mode 5, 2500 W lamp emulation	
		103 - 105	Reserved	
		106 - 108	CCMOD: RAW (Default)	
		109 - 111	CCMOD: RGB or HSV	
		112 - 114	CCMOD: CMY	
		115 - 117	Reserved	
		118 - 122	Reserved	
		123	CTO Filter (Default)	
		124	CTO White	
		125	Reserved	
		126 - 127	Reserved	
		128 - 129	Reserved	
		130 - 133	Reserved	
		134	Reserved	
		135	Reserved	
		136 - 163	Reserved	
		164	Base frequency=1000Hz	
		165	Base frequency=1500Hz (Default)	
		166	Base frequency=2400Hz	
		167	Base frequency=3700Hz	
168	Base frequency=5600Hz			
169	Base frequency=9400Hz			
170	Base frequency=15100Hz			
171	Base frequency=21400Hz			
172	Base frequency=31000Hz			
173	Base frequency=43700Hz			
174 - 250	Reserved			
251 - 255	Default function recall. All functions remains active after power OFF			

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DMX Chart

RGB	HSV	DMX value	Function
14	14		RESET
		000 - 025	Unused range
		026 - 255	To active complete reset sequence stop in unused range for 5 seconds
15	15		FREQUENCY
		000 - 255	Fine adjusting of frequency value Details at page 14

EXTENDED MODE

Number	RGB/CMY	HSV	Note
1	Red	Red	Active in RAW mode only
2	Red fine	Red fine	Active in RAW mode only
3	Green	Green	Active in RAW mode only
4	Green fine	Green fine	Active in RAW mode only
5	Blu	Blu	Active in RAW mode only
6	Blu fine	Blu fine	Active in RAW mode only
7	White	White	Active in RAW mode only
8	White fine	White fine	Active in RAW mode only
9	CTO	CTO	In RAW mode only White mode available. If Halo mode selected the CTO parameter is disabled.
10	Macro colours	Macro Colours	
11	Strobe	Strobe	
12	Dimmer	Dimmer	
13	Dimmer fine	Dimmer fine	
14	Red/Cyan	Hue	
15	Green/Magenta	Hue fine	
16	Blue/Yellow	Saturation	
17	Cross-Fade Digital Filter	Cross-Fade Digital Filter	Cross Fade from RGB/HSV to Digital Filter
18	Cross-Fade CTO	Cross-Fade CTO	Cross Fade from RGB/HSV to CTO
19	Fan	Fan	
20	Tint	Tint	Not available in RAW mode
21	Function	Function	
22	Reset	Reset	
23	Frequency	Frequency	

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DMX Chart

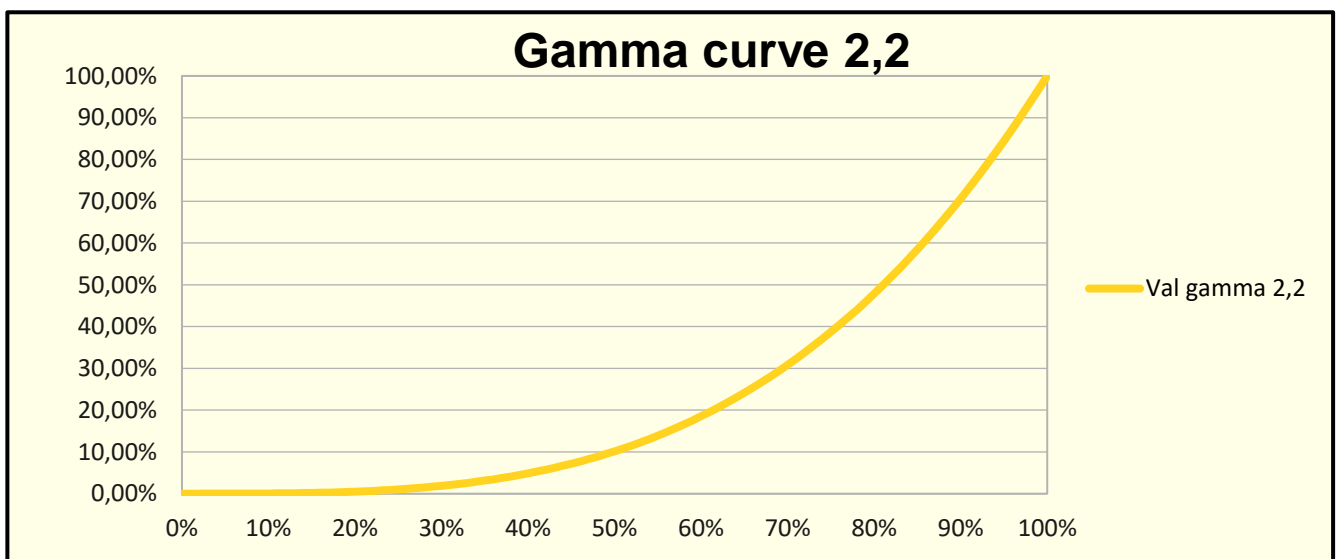
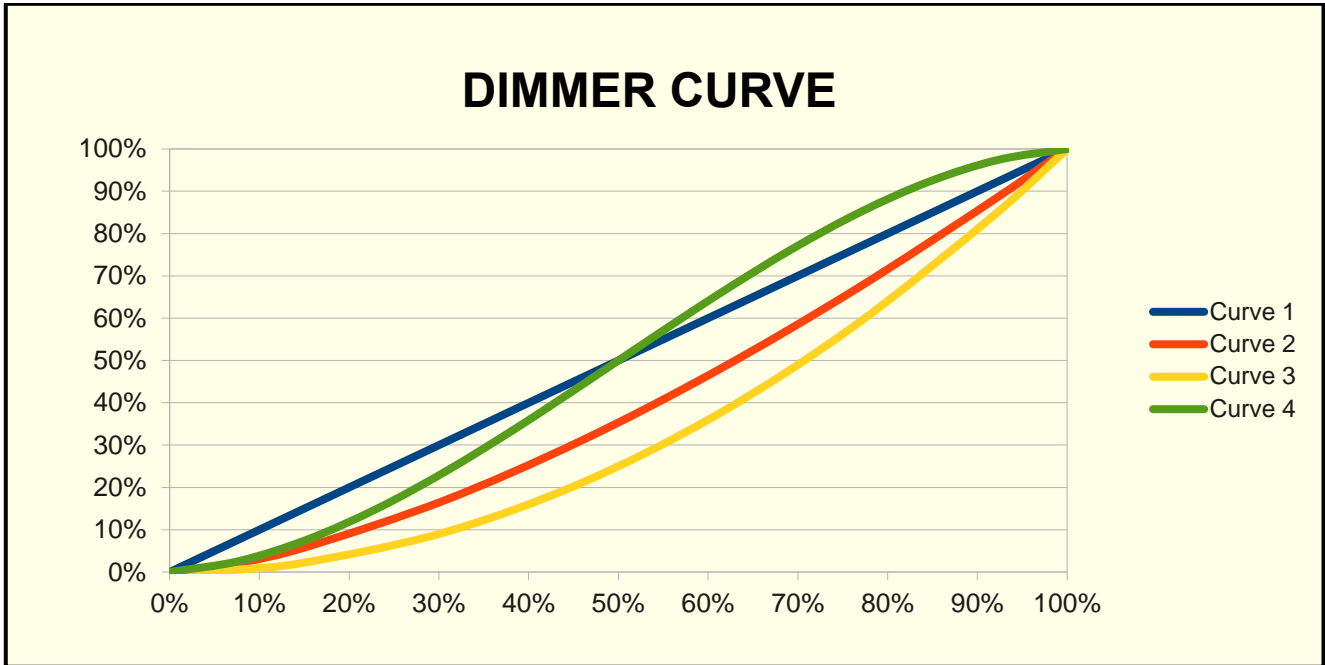
RGB	HSV	DMX value	Function
1	1		RED
		000 - 255	Red linearly increases from 0 to 100%
2	2		RED FINE
		000 - 255	Red fine intensity
3	3		GREEN
		000 - 255	Green colour linearly increases from 0 to 100%
4	4		GREEN FINE
		000 - 255	Green fine intensity
5	5		BLUE
		000 - 255	Green colour linearly increases from 0 to 100%
6	6		BLUE FINE
		000 - 255	Blue fine intensity
7	7		WHITE
		000 - 255	White colour linearly increases from 0 to 100%
8	8		WHITE FINE
		000 - 255	White fine intensity
9	9		CTO CTO linear correction from 8000K to 2500K
		000	OFF
		001 ...	8000 K
		... 046 ...	7000 K
		... 093 ...	6000 K
		... 111 ...	5600 K
		... 116 ...	5500 K
		... 139 ...	5000 K
		... 176 ...	4200 K
		... 185 ...	4000 K
		... 197 ...	3750 K
		... 223 ...	3200 K
		... 227 ...	3100 K
		... 232 ...	3000 K
		... 241 ...	2800 K
		... 246 ...	2700 K
... 255	2500 K		
10	10		MACRO COLOR
		000 - 255	Filter selection from a pre-built library. See details at page 12/13

RGB	HSV	DMX value	Function
11	11		STROBE
		000 - 003	Light OFF
		004 - 103	Strobe at linearly from low (1Hz) to fast (16Hz)
		104 - 107	Light ON
		108 - 207	Pulsation linearly variable from slow (0.5 Hz) to fast (25 Hz)
		208 - 212	Light ON
		213 - 255	Random Slow Strobe
		226 - 238	Random Medium Strobe
		239 - 251	Random Fast Strobe
		252 - 255	Light ON
12	12		DIMMER
		000 - 255	Light output linearly increases from 0 to 100%
13	13		DIMMER FINE
		000 - 255	Fine Dimmer
14	-		RED (RGB mode) / CYAN (CMY mode)
		000 - 255	Red/Cyan colour linearly increase from 0 to 100%
15	-		GREEN (RGB mode) / MAGENTA (CMY mode)
		000 - 255	Green/Magenta colour linearly increase from 0 to 100%
16	-		BLUE (RGB mode) / YELLOW (CMY mode)
		000 - 255	Blue/Yellow colour linearly increase from 0 to 100%
-	14		HUE
		000 - 255	Linear Hue setting
-	15		HUE FINE
		000 - 255	Fine Hue setting
-	16		SATURATION
		000 - 255	Saturation ranges linearly increase from 0% (white) to 100% (pure colour)
17	17		CROSS-FADE MACRO COLOUR
		000 - 255	Cross-Fade from RGB/HSV to macro colour
18	18		CROSS-FADE CTO
		000 - 255	Cross-Fade from RGB/HSV to CTO
19	19		FAN
		000	OFF – The fan speed is automatically regulated based on the LEDs temperature.
		001 - 255	Fan can be linearly controlled from min to max speed
20	20		TINT The tint control is normally set by sight to create satisfactory skin tones.
		000 - 127	Linear Tint setting, define the target point correction from Magenta (0 Bit) to OFF
		128	Tint adjustment OFF
		129 - 255	Linear Tint setting, define the target point correction from OFF to Green (255 bit)

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RGB	HSV	DMX value	Function
21	21		FUNCTION To active selected function stop in unused range for 5 sec Configuration setting remains active after power off.
		000 - 011	Unused range
		012 - 037	Linear (Default)
		038 - 042	S Curve
		043 - 047	Square
		048 - 052	Smooth Square
		053 - 057	S Curve
		058 - 062	<i>Reserved</i>
		063 - 067	<i>Reserved</i>
		068 - 072	<i>Reserved</i>
		073 - 077	Halogen mode disabled (Default)
		078 - 082	Halogen mode 1, 750 W lamp emulation
		083 - 087	Halogen mode 2, 1000 W lamp emulation
		088 - 092	Halogen mode 3, 1200 W lamp emulation
		093 - 097	Halogen mode 4, 2000 W lamp emulation
		098 - 102	Halogen mode 5, 2500 W lamp emulation
		103 - 105	<i>Reserved</i>
		106 - 108	CCMOD: RAW (Default)
		109 - 111	CCMOD: RGB (or HSV) mode
		112 - 114	CCMOD: <i>RGB to CMY</i>
		115 - 117	<i>Reserved</i>
		118 - 122	<i>Reserved</i>
		123	CTO Filter (Default)
		124	CTO White
		125 - 125	<i>Reserved</i>
		126 - 127	<i>Reserved</i>
		128 - 129	<i>Reserved</i>
		130 - 133	<i>Reserved</i>
		134	<i>Reserved</i>
		135	<i>Reserved</i>
		136 - 163	<i>Reserved</i>
		164	Base frequency=1000Hz
165	Base frequency=1500Hz (Default)		
166	Base frequency=2400Hz		
167	Base frequency=3700Hz		
168	Base frequency=5600Hz		
169	Base frequency=9400Hz		
170	Base frequency=15100Hz		
171	Base frequency=21400Hz		
172	Base frequency=31000Hz		
173	Base frequency=43700Hz		
174 - 250	<i>Reserved</i>		
251 - 255	Default function recall		
22	22		RESET
		000 - 025	Unused range
		026 - 255	To active complete reset sequence stop in unused range for 5 seconds
23	23		FREQUENCY
		000 - 255	Fine adjusting of frequency value Details at page 14



DMX Chart Macro Colours Library

DMX Value	LEE Filter references	Description
000 – 009	None	None
010 – 011	004	4 Med Bast Amber
012 – 013	009	Pale Amber Gold
014 – 015	-	<i>Reserved</i>
016 – 017	017	Surprise Peach
018 – 019	019	Fire
020 – 021	-	<i>Reserved</i>
022 – 023	026	Bright red
024 – 025	029	Plasa Red
026 – 027	035	Light Pink
028 – 029	058	Lavender
030 – 031	068	Sky Blue
032 – 033	071	Tokyo Blue
034 – 035	075	Evening Blue
036 – 037	079	Just Blue
038 – 039	088	Lime Green
040 – 041	-	<i>Reserved</i>
042 – 043	-	<i>Reserved</i>
044 – 045	-	<i>Reserved</i>
046 – 047	102	Lt Amber
048 – 049	103	Straw
050 – 051	-	<i>Reserved</i>
052 – 053	-	<i>Reserved</i>
054 – 055	106	Primary Red
056 – 057	108	English Rose
058 – 059	111	Dark Pink
060 – 061	113	Magenta
062 – 063	115	Peacock Blue
064 – 065	116	Med Blue-Green
066 – 067	117	Steel Blue
068 – 069	118	Light Blue
070 – 071	-	<i>Reserved</i>
072 – 073	-	<i>Reserved</i>
074 – 075	121	Lee Green
076 – 077	122	Fern Green
078 – 079	124	Dark Green
080 – 081	127	Smokey Pink
082 – 083	128	Bright Pink
084 – 085	131	Marine Blue
086 – 087	132	Med Blue
088 – 089	134	Golden Amber
090 – 091	135	Dip Golden Amber
092 – 093	136	Pale Lavender
094 – 095	137	Spec Lavender
096 – 097	138	Pale Green
098 – 099	-	<i>Reserved</i>
100 – 101	141	Bright Blue
102 – 103	143	Pale Navy Blue
104 – 105	147	Apricot

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DMX Value	LEE Filter references	Description
106 – 107	152	Pale Gold
108 – 109	154	Pale Rose
110 – 111	157	Pink
112 – 113	-	<i>Reserved</i>
114 – 115	161	Slate Blue
116 – 117	162	Bastard Amber
118 – 119	164	Flame Red
120 – 121	165	Daylight Blue
122 – 123	169	Lilac Tint
124 – 125	170	Deep Lavender
126 – 127	172	Lagoon Blue
128 – 129	174	Dk Steel Blue
130 – 131	-	<i>Reserved</i>
132 – 133	180	Dark Lavendar
134 – 135	181	Congo Blue
136 – 137	182	Light Red
138 – 139	197	Alice Blue
140 – 141	200	Double C.T. Blue
142 – 143	201	Full C.T. Blue
144 – 145	202	1/2 C.T. Blue
146 – 147	203	1/4 C.T. Blue
148 – 149	204	Full C.T. Orange
150 – 151	205	1/2 C.T. Orange
152 – 153	206	1/4 C.T. Orange
154 – 155	241	Lee Fluor 5700K
156 – 157	242	Lee Fluor 4300K
158 – 159	247	Lee Minus Green
160 – 161	248	1/2 Minus Green
162 – 163	281	3/4 C.T. Blue
164 – 165	285	3/4 C.T. Orange
166 – 167	328	Follies Pink
168 – 169	352	Glacier Blue
170 – 171	353	Lighter Blue
172 – 173	-	<i>Reserved</i>
174 – 175	706	King Fals Lavender
176 – 177	711	Cold Blue
178 – 179	724	Ocean Blue
180 – 181	728	Steel Green
182 – 183	747	Easy White
184 – 185	-	<i>Reserved</i>
186 – 187	793	Vanity Fair
188 – 189	R05	Rose Tint (ROSCO)
190 – 255	-	<i>Reserved</i>

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DMX Chart

Frequency parameter levels

Base Frequency setting	Value at 128 bit	Min value at 0 bit	Max value at 255 bit
1000 Hz	1000 Hz	744 Hz	1254 Hz
1500 Hz (Default)	1500 Hz	1244 Hz	1754 Hz
2400 Hz	2400 Hz	1760 Hz	3035 Hz
3700 Hz	3700 Hz	3060 Hz	4335 Hz
5600 Hz	5600 Hz	4320 Hz	6870 Hz
9400 Hz	9400 Hz	6840 Hz	11940 Hz
15100 Hz	15100 Hz	11900 Hz	18275 Hz
21400 Hz	21400 Hz	18200 Hz	24575 Hz
31000 Hz	31000 Hz	24600 Hz	37350 Hz
43700 Hz	43700 Hz	37300 Hz	50050 Hz