

# LEDko SHHH FullSpectrum - DMX chart

## DMX modes

DMX channels ↓	16 channels	7 channels	1 channel	Studio mode	RGB mode	fine RGB mode	Sunrise mode
1	Master Dimmer	Master Dimmer	Master Dimmer	Master Dimmer	Master Dimmer	Master Dimmer	Master Dimmer
2	Red	Red		White Tone	Dimmer Fine	Dimmer Fine	Dimmer Fine
3	Green	Green		Green Saturation	Red	Red	Proportional CCT
4	Blue	Blue		Saturation	Green	Red Fine	Step CCT
5	Cyan	Cyan		Hue	Blue	Green	Green Saturation
6	Lime	Lime		Dimmer Fine	White Tone	Green Fine	Special Function
7	Amber	Amber		Special Function	Saturation	Blue	
8	Strobe Effect				Strobe Effect	Blue Fine	
9	Dimmer Fine				Special Function	White Tone	
10	Special Function					Saturation	
11	Red Tone					Strobe Effect	
12	Green Tone					Special Function	
13	Blue Tone						
14	White Tone						
15	Green Saturation						
16	Saturation						

# DMX Chart 16, 7, 1 channels

channel			function	type of control	effect	decimal		percentage	
16	7	1							
1	1	1 <sup>2</sup>	master dimmer	proportional	adjust luminous output intensity from 0 to 100%	0	- 255	0%	- 100%
2	2	-	red	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
3	3	-	green	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
4	4	-	blue	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
5	5	-	cyan	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
6	6	-	lime	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
7	7	-	amber	proportional	proportional control of the color percentage from 0 % to 100 %	0	- 255	0%	- 100%
8	-	-	strobe effect	step	no effect	0	- 9	0%	- 4%
				proportional	variable speed strobe effect, from slow to fast	10	- 57	4%	- 22%
				step	stop strobe	58	- 59	23%	- 23%
				proportional	sequenced pulse effect, slow closing, fast opening (variable speed pulsing, from slow to fast)	60	- 108	24%	- 42%
				step	stop strobe	109	- 110	43%	- 43%
				proportional	sequenced pulse effect, fast closing, slow opening (variable speed pulsing, from slow to fast)	111	- 159	44%	- 62%
				step	stop strobe	160	- 161	63%	- 63%
				proportional	random strobe effect with variable speed from slow to fast	162	- 207	64%	- 81%
				step	stop strobe	208	- 209	82%	- 82%
				proportional	random strobe effect with variable speed from slow to fast	210	- 255	82%	- 100%
9	-	-	dimmer fine	proportional	fine dimmer control 16 bit	0	- 255	0%	- 100%
10	-	-	special functions	step	park	0	- 9	0%	- 4%
					no effect	10	- 133	4%	- 52%
					enables the automatic display blackout	134	- 185	53%	- 73%
					disables the automatic display blackout	186	- 199	73%	- 78%
					no effect	200	- 255	78%	- 100%

11 <sup>1</sup>	-	-	red tone	step	no effect	0	-	9	0%	-	4%
					COR01 - GELS RED 1	10	-	34	4%	-	13%
					COR02 - GELS RED 2	35	-	59	14%	-	23%
					COR03 - GELS RED 3	60	-	84	24%	-	33%
					COR04 - GELS RED 4	85	-	109	33%	-	43%
					COR05 - GELS RED 5	110	-	134	43%	-	53%
					COR06 - GELS RED 6	135	-	159	53%	-	62%
					COR07 - GELS RED 7	160	-	184	63%	-	72%
					COR08 - GELS RED 8	185	-	209	73%	-	82%
					COR09 - GELS RED 9	210	-	234	82%	-	92%
					COR10 - GELS RED 10	235	-	255	92%	-	100%
12 <sup>1</sup>	-	-	green tone	step	no effect	0	-	9	0%	-	4%
					COG01 - GELS GREEN 1	10	-	34	4%	-	13%
					COG02 - GELS GREEN 2	35	-	59	14%	-	23%
					COG03 - GELS GREEN 3	60	-	84	24%	-	33%
					COG04 - GELS GREEN 4	85	-	109	33%	-	43%
					COG05 - GELS GREEN 5	110	-	134	43%	-	53%
					COG06 - GELS GREEN 6	135	-	159	53%	-	62%
					COG07 - GELS GREEN 7	160	-	184	63%	-	72%
					COG08 - GELS GREEN 8	185	-	209	73%	-	82%
					COG09 - GELS GREEN 9	210	-	234	82%	-	92%
					COG10 - GELS GREEN 10	235	-	255	92%	-	100%
13 <sup>1</sup>	-	-	blue tone	step	no effect	0	-	9	0%	-	4%
					COB01 - GELS BLUE 1	10	-	34	4%	-	13%
					COB02 - GELS BLUE 2	35	-	59	14%	-	23%
					COB03 - GELS BLUE 3	60	-	84	24%	-	33%
					COB04 - GELS BLUE 4	85	-	109	33%	-	43%
					COB05 - GELS BLUE 5	110	-	134	43%	-	53%
					COB06 - GELS BLUE 6	135	-	159	53%	-	62%
					COB07 - GELS BLUE 7	160	-	184	63%	-	72%
					COB08 - GELS BLUE 8	185	-	209	73%	-	82%
					COB09 - GELS BLUE 9	210	-	234	82%	-	92%
					COB10 - GELS BLUE 10	235	-	255	92%	-	100%
14	-	-	white tone	step	no effect	0	-	9	0%	-	4%
					2.700 K	10	-	15	4%	-	6%
				proportional step	proportional value from 2.700 K to 3.200 K	16	-	30	6%	-	12%
				proportional step	3.200 K	31	-	45	12%	-	18%
				proportional step	proportional value from 3.200 K to 4.000 K	46	-	60	18%	-	24%
				proportional step	4.000 K	61	-	75	24%	-	29%
				proportional step	proportional value from 4.000 K to 5.000 K	76	-	90	30%	-	35%
				proportional step	5.000 K	91	-	105	36%	-	41%
				proportional step	proportional value from 5.000 K to 5.600 K	106	-	120	42%	-	47%
				proportional step	5.600 K	121	-	135	47%	-	53%
				proportional step	proportional value from 5.600 K to 7.000 K	136	-	150	53%	-	59%
				proportional step	7.000 K	151	-	165	59%	-	65%
				proportional step	proportional value from 7.000 K to 8.000 K	166	-	180	65%	-	71%
				proportional step	8.000 K	181	-	195	71%	-	76%
proportional step	proportional value from 8.000 K to 9.000 K	196	-	210	77%	-	82%				
proportional step	9.000 K	211	-	225	83%	-	88%				
proportional step	proportional value from 9.000 K to 10.000 K	226	-	240	89%	-	94%				
proportional step	10.000 K	241	-	255	95%	-	100%				

15 <sup>3</sup>	-	-	green saturation	step	no effect	0	0%
				proportional	exalts the green color in the mixing and diminishes the presence of magenta	1 - 127	0% - 50%
				step	no effect	128	50%
				proportional	diminishes the presence of green in the mixing and exalts the magenta color	129 - 254	51% - 99%
				step	no effect	255	100%
16 <sup>4</sup>	-	-	saturation	proportional	the white tone fades to the tone built with the RGBCLA channels	0 - 255	0% - 100%

Note 1: channels involving 11 - 12 - 13 macro colors can also be obtained by mixing channels 2 - 3 - 4 - 5 - 6 - 7.

Note 2: the one channel function mode can be selected through the "DMX SETTINGS" menu.

Note 3: the rest position of the green saturation is 128. Diminishing the DMX value augments the presence of the green color. Increasing the DMX value augments the presence of magenta.

Note 4: increasing the value of the saturation DMX channel the white tone (channel 14) will fade to the color selected by the channel 2 - 3 - 4 - 5 - 6 - 7.

# DMX Chart Studio mode

channel	function	type of control	effect	decimal	percentage
1	master dimmer	proportional	adjust luminous output intensity from 0 to 100%	0 - 255	0% - 100%
2	white tone	step	2.700 K	0 - 15	0% - 6%
		proportional	proportional value from 2.700 K to 3.200 K	16 - 30	6% - 12%
		step	3.200 K	31 - 45	12% - 18%
		proportional	proportional value from 3.200 K to 4.000 K	46 - 60	18% - 24%
		step	4.000 K	61 - 75	24% - 29%
		proportional	proportional value from 4.000 K to 5.000 K	76 - 90	30% - 35%
		step	5.000 K	91 - 105	36% - 41%
		proportional	proportional value from 5.000 K to 5.600 K	106 - 120	42% - 47%
		step	5.600 K	121 - 135	47% - 53%
		proportional	proportional value from 5.600 K to 7.000 K	136 - 150	53% - 59%
		step	7.000 K	151 - 165	59% - 65%
		proportional	proportional value from 7.000 K to 8.000 K	166 - 180	65% - 71%
		step	8.000 K	181 - 195	71% - 76%
		proportional	proportional value from 8.000 K to 9.000 K	196 - 210	77% - 82%
		step	9.000 K	211 - 225	83% - 88%
proportional	proportional value from 9.000 K to 10.000 K	226 - 240	89% - 94%		
step	10.000 K	241 - 255	95% - 100%		
3 <sup>1</sup>	green saturation	step	no effect	0	0%
		proportional	exalts the green color in the mixing and diminishes the presence of magenta	1 - 127	0% - 50%
		step	no effect	128	50%
		proportional	diminishes the presence of green in the mixing and exalts the green color	129 - 254	51% - 99%
		step	no effect	255	100%
4	saturation	proportional	the white tone fades to the tone built with the HUE channel	0 - 255	0% - 100%
5 <sup>2</sup>	hue	proportional	reproduce the color crossfades around the color space	0 - 255	0% - 100%
6	dimmer fine	proportional	fine dimmer control 16 bit	0 - 255	0% - 100%
7	special functions	step	park	0 - 9	0% - 4%
			no effect	10 - 133	4% - 52%
			enables the automatic display blackout	134 - 185	53% - 73%
			disables the automatic display blackout	186 - 199	73% - 78%
			no effect	200 - 255	78% - 100%

Note 1: the rest position of the green saturation is 128. Diminishing the DMX value augments the presence of the green color. Increasing the DMX value augments the presence of magenta.

Note 2: increasing the value of the saturation DMX channel (channel 4) the white light will fade to the color selected with the HUE channel (channel 5)

# DMX Chart RGB mode

channel	function	type of control	effect	decimal	percentage
1	master dimmer	proportional	adjust luminous output intensity from 0 to 100%	0 - 255	0% - 100%
2	dimmer fine	proportional	fine dimmer control 16 bit	0 - 255	0% - 100%
3	red	proportional	proportional control of the color percentage from 0 % to 100 %	0 - 255	0% - 100%
4	green	proportional	proportional control of the color percentage from 0 % to 100 %	0 - 255	0% - 100%
5	blue	proportional	proportional control of the color percentage from 0 % to 100 %	0 - 255	0% - 100%
6	white tone	step	no effect	0 - 9	0% - 4%
		step	2.700 K	10 - 15	4% - 6%
		proportional	proportional value from 2.700 K to 3.200 K	16 - 30	6% - 12%
		step	3.200 K	31 - 45	12% - 18%
		proportional	proportional value from 3.200 K to 4.000 K	46 - 60	18% - 24%
		step	4.000 K	61 - 75	24% - 29%
		proportional	proportional value from 4.000 K to 5.000 K	76 - 90	30% - 35%
		step	5.000 K	91 - 105	36% - 41%
		proportional	proportional value from 5.000 K to 5.600 K	106 - 120	42% - 47%
		step	5.600 K	121 - 135	47% - 53%
		proportional	proportional value from 5.600 K to 7.000 K	136 - 150	53% - 59%
		step	7.000 K	151 - 165	59% - 65%
		proportional	proportional value from 7.000 K to 8.000 K	166 - 180	65% - 71%
		step	8.000 K	181 - 195	71% - 76%
		proportional	proportional value from 8.000 K to 9.000 K	196 - 210	77% - 82%
		step	9.000 K	211 - 225	83% - 88%
proportional	proportional value from 9.000 K to 10.000 K	226 - 240	89% - 94%		
step	10.000 K	241 - 255	95% - 100%		
7 <sup>1</sup>	saturation	proportional	the white tone fades to the tone built with the RGB channels	0 - 255	0% - 100%
8	strobe effect	step	no effect	0 - 9	0% - 4%
		proportional	variable speed strobing effect, from slow to fast	10 - 57	4% - 22%
		step	stop strobe	58 - 59	23% - 23%
		proportional	sequenced pulse effect, slow closing, fast opening (variable speed pulsing, from slow to fast)	60 - 108	24% - 42%
		step	stop strobe	109 - 110	43% - 43%
		proportional	sequenced pulse effect, fast closing, slow opening (variable speed pulsing, from slow to fast)	111 - 159	44% - 62%
		step	stop strobe	160 - 161	63% - 63%
		proportional	random strobe effect with variable speed from slow to fast	162 - 207	64% - 81%
		step	stop strobe	208 - 209	82% - 82%
		proportional	random strobe effect with variable speed from slow to fast	210 - 255	82% - 100%

9	special functions	step	park	0	-	9	0%	-	4%
			no effect	10	-	133	4%	-	52%
			enables the automatic display blackout	134	-	185	53%	-	73%
			disables the automatic display blackout	186	-	199	73%	-	78%
			no effect	200	-	255	78%	-	100%

Note 1: increasing the value of the saturation DMX channel the white tone (channel 6) will fade to the color selected by the channel 3, 4 or 5

# DMX Chart fine RGB mode

channel	function	type of control	effect	decimal	percentage
1	master dimmer	proportional	adjust luminous output intensity from 0 to 100%	0 - 255	0% - 100%
2	dimmer fine	step	fine dimmer control 16 bit	0 - 255	0% - 100%
3	red	proportional	proportional control of the color percentage from 0 % to 100 %	0 - 255	0% - 100%
4	red fine	step	fine red control 16 bit	0 - 255	0% - 100%
5	green	proportional	proportional control of the color percentage from 0 % to 100 %	0 - 255	0% - 100%
6	green fine	step	fine green control 16 bit	0 - 255	0% - 100%
7	blue	proportional	proportional control of the color percentage from 0 % to 100 %	0 - 255	0% - 100%
8	blue fine	step	fine blue control 16 bit	0 - 255	0% - 100%
9	white tone	step	no effect	0 - 9	0% - 4%
			2.700 K	10 - 15	4% - 6%
		proportional	proportional value from 2.700 K to 3.200 K	16 - 30	6% - 12%
			step	3.200 K	31 - 45
		proportional	proportional value from 3.200 K to 4.000 K	46 - 60	18% - 24%
			step	4.000 K	61 - 75
		proportional	proportional value from 4.000 K to 5.000 K	76 - 90	30% - 35%
			step	5.000 K	91 - 105
		proportional	proportional value from 5.000 K to 5.600 K	106 - 120	42% - 47%
			step	5.600 K	121 - 135
		proportional	proportional value from 5.600 K to 7.000 K	136 - 150	53% - 59%
			step	7.000 K	151 - 165
		proportional	proportional value from 7.000 K to 8.000 K	166 - 180	65% - 71%
			step	8.000 K	181 - 195
		proportional	proportional value from 8.000 K to 9.000 K	196 - 210	77% - 82%
			step	9.000 K	211 - 225
proportional	proportional value from 9.000 K to 10.000 K	226 - 240	89% - 94%		
	step	10.000 K	241 - 255	95% - 100%	
10 <sup>1</sup>	saturation	proportional	the white tone fades to the tone built with the RGB channels	0 - 255	0% - 100%
11	strobe	step	no effect	0 - 9	0% - 4%
			proportional	variable speed strobing effect, from slow to fast	10 - 57
		step	stop strobe	58 - 59	23% - 23%
			proportional	sequenced pulse effect, slow closing, fast opening (variable speed pulsing, from slow to fast)	60 - 108
		step	stop strobe	109 - 110	43% - 43%
			proportional	sequenced pulse effect, fast closing, slow opening (variable speed pulsing, from slow to fast)	111 - 159
		step	stop strobe	160 - 161	63% - 63%
			proportional	random strobe effect with variable speed from slow to fast	162 - 207
		step	stop strobe	208 - 209	82% - 82%
			proportional	random strobe effect with variable speed from slow to fast	210 - 255



12	special functions	step	park	0	-	9	0%	-	4%
			no effect	10	-	133	4%	-	52%
			enables the automatic display blackout	134	-	185	53%	-	73%
			disables the automatic display blackout	186	-	199	73%	-	78%
			no effect	200	-	255	78%	-	100%

Note 1: increasing the value of the saturation DMX channel the white tone (channel 6) will fade to the color selected by the channel 3, 4 or 5

# DMX Chart SUNRISE mode

channel	function	type of control	effect	decimal	percentage
1	master dimmer	proportional	adjust luminous output intensity from 0 to 100%	0 - 255	0% - 100%
2	dimmer fine	proportional	fine dimmer control 16 bit	0 - 255	0% - 100%
3	proportional cct	proportional	2.700 K	0	0%
			proportional value from 2.700 K to 4000 K	1 - 44	0% - 17%
			4.000 K	45	18%
			proportional value from 4.000 to 5.000 K	46 - 79	18% - 31%
			5.000 K	80	31%
			proportional value from 5.000 to 5.600 K	81 - 100	32% - 39%
			5.600 K	101	40%
			proportional value from 5.600 K to 10.000 K	102 - 254	40% - 100%
			10.000 K	255	100%
4	step cct	step	no effect	0 - 9	0% - 4%
			2.700 K	10 - 36	4% - 14%
			3.200 K	37 - 63	15% - 25%
			4.000 K	64 - 90	25% - 35%
			5.000 K	91 - 117	36% - 46%
			5.600 K	118 - 144	46% - 56%
			7.000 K	145 - 171	57% - 67%
			8.000 K	172 - 198	67% - 78%
			9.000 K	199 - 225	78% - 88%
			10.000 K	226 - 255	89% - 100%
5	green saturation	step	no effect	0	0%
		proportional	exalts the green color in the mixing and diminishes the presence of magenta	1 - 127	0% - 50%
		step	no effect	128	50%
		proportional	diminishes the presence of green in the mixing and exalts the green color	129 - 254	51% - 99%
		step	no effect	255	100%
6	special functions	step	park	0 - 9	0% - 4%
			no effect	10 - 133	4% - 52%
			enables the automatic display blackout	134 - 185	53% - 73%
			disables the automatic display blackout	186 - 199	73% - 78%
			no effect	200 - 255	78% - 100%

Note 1: If channels 3 and 4 are used simultaneously, channel 4 prevails.

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