

LEDko EXT FS Dual Gobo Rotator- DMX chart

!Please note: the channels relating to the control of the gobos rotation speed (**gobos rotation speed, gobo 1 and speed, gobo 2 speed**) can be used only with the dual gobo rotator is mounted, when the four blade framing system is mounted ignore the channels dedicated to the gobo rotations.

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	Spare Channel	Spare Channel		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						
17	Gobos Rotation Speed						
18	Gobo 1 Speed						
19	Gobo 2 Speed						

DMX Chart 19, 10, 4 channels

channel			function	type of control	effect	decimal		percentage			
16	7	1				0	-	255	0%	-	100%
1	1	1 ²	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	-	spare channel	step	no effect	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	-	84	4%	-	33%
					fan at SILENT mode	85	-	96	33%	-	38%
					fan at STUDIO mode	97	-	108	38%	-	42%
					fan at AUTO mode	109	-	120	43%	-	47%
				proportional	fan speed control	121	-	133	47%	-	52%
				step	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'	-	-	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'	-	-	green 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%
13'	-	-	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	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%				

15 ³	-	-	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 ⁴	-	-	saturation	proportional	the white tone fades to the tone built with the RGBCLA channels	0 - 255	0% - 100%
17	8	2	gobos rotation speed	proportional	adjust proportionally the both gobo's speed	0 - 255	0% - 100%
18	9	3	gobo 1 speed	step	gobo in stop	0 - 9	0% - 4%
				proportional	control the gobo 1 speed counterclockwise (from fast to slow)	10 - 124	4% - 49%
				step	gobo in stop	125 - 129	49% - 51%
				proportional	control the gobo 1 speed clockwise (from slow to fast)	130 - 245	51% - 96%
				step	gobo in stop	246 - 255	97% - 100%
19	10	4	gobo 2 speed	step	gobo in stop	0 - 9	0% - 4%
				proportional	control the gobo 2 speed counterclockwise (from fast to slow)	10 - 124	4% - 49%
				step	gobo in stop	125 - 129	49% - 51%
				proportional	control the gobo 2 speed clockwise (from slow to fast)	130 - 245	51% - 96%
				step	gobo in stop	246 - 255	97% - 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 ¹	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 ²	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 - 84	4% - 33%
			fan at SILENT mode	85 - 96	33% - 38%
			fan at STUDIO mode	97 - 108	38% - 42%
			fan at AUTO mode	109 - 120	43% - 47%
		proportional	fan speed control	121 - 133	47% - 52%
		step	enables the automatic display blackout	134 - 185	53% - 73%
			disables the automatic display blackout	186 - 199	73% - 78%
			no effect	200 - 255	78% - 100%

8	gobos rotation speed	proportional	adjust proportionally the both gobo's speed	0 - 255	0%	-	100%
9	gobo 1 speed	step	gobo in stop	0 - 9	0%	-	4%
		proportional	control the gobo 1 speed counterclockwise (from fast to slow)	10 - 124	4%	-	49%
		step	gobo in stop	125 - 129	49%	-	51%
		proportional	control the gobo 1 speed clockwise (from slow to fast)	130 - 245	51%	-	96%
		step	gobo in stop	246 - 255	97%	-	100%
10	gobo 2 speed	step	gobo in stop	0 - 9	0%	-	4%
		proportional	control the gobo 2 speed counterclockwise (from fast to slow)	10 - 124	4%	-	49%
		step	gobo in stop	125 - 129	49%	-	51%
		proportional	control the gobo 2 speed clockwise (from slow to fast)	130 - 245	51%	-	96%
		step	gobo in stop	246 - 255	97%	-	100%
<p>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.</p>							
<p>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)</p>							

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 ¹	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 - 84	4% - 33%
			fan at SILENT mode	85 - 96	33% - 38%
			fan at STUDIO mode	97 - 108	38% - 42%
			fan at AUTO mode	109 - 120	43% - 47%
		proportional	fan speed control	121 - 133	47% - 52%
		step	enables the automatic display blackout	134 - 185	53% - 73%
			disables the automatic display blackout	186 - 199	73% - 78%
		no effect	200 - 255	78% - 100%	
10	gobos rotation speed	proportional	adjust proportionally the both gobo's speed	0 - 255	0% - 100%
11	gobo 1 speed	step	gobo in stop	0 - 9	0% - 4%
		proportional	control the gobo 1 speed counterclockwise (from fast to slow)	10 - 124	4% - 49%
		step	gobo in stop	125 - 129	49% - 51%
		proportional	control the gobo 1 speed clockwise (from slow to fast)	130 - 245	51% - 96%
		step	gobo in stop	246 - 255	97% - 100%
12	gobo 2 speed	step	gobo in stop	0 - 9	0% - 4%
		proportional	control the gobo 2 speed counterclockwise (from fast to slow)	10 - 124	4% - 49%
		step	gobo in stop	125 - 129	49% - 51%
		proportional	control the gobo 2 speed clockwise (from slow to fast)	130 - 245	51% - 96%
		step	gobo in stop	246 - 255	97% - 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