

DMX protocol

Robin CycBar 15 - DMX protocol

Version: 1.3 Mode 1 - Standard 16-bit, **Mode 2**-Reduced 8-bit, **Mode 3** -Extended 16-bit+RGB pixels, **Mode 4** - Extended 16-bit+RGBD pixels, **Mode 5** -Extended 16-bit+RGBD pixels+LED Frequency Setting

Mode/channel					DMX Value	Function	Type of control
1	2	3	4	5			
1	1	1	1	1		Power/Special functions	
					0-19	Reserved (0= default)	
						<i>To activate following functions , stop in DMX value for at least 3 sec. and shutter must be closed at least 3 sec. (Shutter channel 14/10/2 must be at range of 0-31 DMX). Corresponding menu items are temporarily overridden</i>	
					20-24	Display On	step
					25-29	Display Off	step
					30-39	RGBW colour mixing mode	step
					40-49	CMY colour mixing mode	step
					50-59	Colour calibration mode On	step
					60-69	Colour calibration mode Off	step
					70-89	Reserved	
					90-99	Dimmer curve: linear	step
					100-109	Dimmer curve: square law	step
					110-119	White counting On	step
					120-129	White counting Off	step
						<i>To activate following functions, stop in DMX value for at least 3 seconds. Corresponding menu items are temporarily overridden.</i>	
						The following function allows you to fine change of PWM output frequency of LEDs in 18 levels Up and Down around the selected PWM frequency (Standard, High) in the table below.	
					130	LED Frequency (step -18)	step
					131	LED Frequency (step -17)	step
					132	LED Frequency (step -16)	step
					133	LED Frequency (step -15)	step
					134	LED Frequency (step -14)	step
					135	LED Frequency (step -13)	step
					136	LED Frequency (step -12)	step
					137	LED Frequency (step -11)	step
					138	LED Frequency (step -10)	step
					139	LED Frequency (step -9)	step
					140	LED Frequency (step -8)	step
					141	LED Frequency (step -7)	step
					142	LED Frequency (step -6)	step
					143	LED Frequency (step -5)	step
					144	LED Frequency (step -4)	step
					145	LED Frequency (step -3)	step
					146	LED Frequency (step -2)	step
					147	LED Frequency (step -1)	step
					148	LED Frequency (Standard or High)	step
					149	LED Frequency (step +1)	step

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					150	LED Frequency (step +2)	step
					151	LED Frequency (step +3)	step
					152	LED Frequency (step +4)	step
					153	LED Frequency (step +5)	step
					154	LED Frequency (step +6)	step
					155	LED Frequency (step +7)	step
					156	LED Frequency (step +8)	step
					157	LED Frequency (step +9)	step
					158	LED Frequency (step +10)	step
					159	LED Frequency (step +11)	step
					160	LED Frequency (step +12)	step
					161	LED Frequency (step +13)	step
					162	LED Frequency (step +14)	step
					163	LED Frequency (step +15)	step
					164	LED Frequency (step +16)	step
					165	LED Frequency (step +17)	step
					166	LED Frequency (step +18)	step
					167-169	Reserved	
					170-174	PWM output frequency of LEDS: Standard (300Hz)*	step
					175-179	PWM output frequency of LEDS: High (1200Hz)*	step
						* You can adjust selected frequency in 18 steps Up or Down around selected frequency. Default value of PWM frequency set in the fixture is Standard.	
					180-255	Reserved	
2	2	2	2	*		Red/Cyan (8 bit)- all pixels	
					0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
3	*	3	3	*		Red/Cyan (16bit)- all pixels	
					0 - 255	Colour saturation control - fine (255=default)	proportional
4	3	4	4	*		Green/Magenta (8 bit) - all pixels	
					0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
5	*	5	5	*		Green/Magenta (16bit) - all pixels	
					0 - 255	Colour saturation control - fine (255=default)	proportional
6	4	6	6	*		Blue/Yellow (8 bit) - all pixels	
					0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
7	*	7	7	*		Blue/ Yellow (16bit) -all pixels	
					0 - 255	Colour saturation control - fine (255=default)	proportional
8	5	8	8	*		White (8 bit) - all pixels	
						<i>If RGBW mode is selected:</i>	
					0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
						<i>If CMY mode is selected:</i>	
					0 - 255	No function	
9	*	9	9	*		White (16 bit) - all pixels	
					0 - 255	Colour saturation control - fine (255=default)	proportional
10	6	10	10	*		CTO (all pixels)	
					0	No function (0=255)	
					1-255	Colour temperature correction	proportional
11	7	11	11	*		Virtual colour wheel - all pixels	
					0	No function (0=default)	step
					1-2	White 2700 K	step
					3	White 2700 K (tungsten emulation)*	step

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					4-5	White 3200 K	step
					6	White 3200 K (tungsten emulation)*	step
					7-9	White 4200 K	step
					10-12	White 5600 K	step
					13-15	White 8000 K	step
					16	Blue (Blue=full, Red+Green+White=0)	step
					17-55	Red=0, Green → up, Blue =full, White=0	proportional
					56	Light Blue (Red=0, Green=full, Blue =full, white=0)	step
					57 - 95	Red=0, Green=full, Blue → down, White=0	proportional
					96	Green (Red=0, Green=full, Blue =0, White=0)	step
					97 – 134	Red → up, Green=full, Blue=0, White=0	proportional
					135	Yellow (Red=full, Green=full, Blue=0,White=0)	step
					136 - 174	Red=full, Green → down, Blue=0, White=0	proportional
					175	Red (Red=full, Green=0, Blue=0, White=0)	step
					176 -214	Red=full, Green=0, Blue → up, White=0	proportional
					215	Magenta (Red=full, Green=0, Blue=full, White=0)	step
					216 - 246	Red → down, Green=0, Blue=full, White=0	proportional
					247	Blue (Red=0, Green=0, Blue=full, White=0)	step
					248-251	Rainbow effect(with fade time) from min.->max. speed	proportional
					252-255	Rainbow effect(without fade time)from min.->max.speed	proportional
12	8	12	12	*		Pixel effects	
					0-2	No function (0=default)	
					3-4	Effect 1	step
					5-6	Effect 2	step
					:	:	:
					181-182	Effect 90	step
					183-255	Reserved	
13	9	13	13	*		Pixel effects speed	
					0-63	Speed from min. →max. without fade time (0=default)	proportional
					64-127	Speed from max. →min. without fade time (op. direction)	proportional
					128-191	Speed from min. →max. with fade time	proportional
					192-255	Speed from max. →min. with fade time (op. direction)	proportional
14	10	14	14	2		Shutter/ strobe - all pixels	
					0 - 31	Shutter closed	step
					32 - 63	Shutter open (32=default)	step
					64 - 95	Strobe-effect from slow to fast	proportional
					96 - 127	Shutter open	step
					128 - 143	Opening pulse in sequences from slow to fast	proportional
					144 - 159	Closing pulse in sequences from fast to slow	proportional
					160 - 191	Shutter open	step
					192 - 223	Random strobe-effect from slow to fast	proportional
					224 - 255	Shutter open	step
15	11	15	15	*		Dimmer intensity (8 bit) -all pixels	
					0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
16	*	16	16	*		Dimmer intensity fine (16 bit) -all pixels	
					0 - 255	Fine dimming (0=default)	proportional
*	*	17	17	3		Red pixel 1	
					0-255	Red LED saturation control 0-100% (0=default)	proportional
*	*	18	18	4		Green pixel 1	
					0-255	Green LED saturation control 0-100% (0=default)	proportional

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*	*	19	19	5		Blue pixel 1	
					0-255	Blue LED saturation control 0-100% (0=default)	proportional
*	*	*	20	*		Dimmer 1	
					0-255	Dimmer intensity control 0-100% (0=default)	proportional
						:	
*	*	59	73	45		Red pixel 15	
					0-255	Red LED saturation control 0-100% (0=default)	proportional
*	*	60	74	46		Green pixel 15	
					0-255	Green LED saturation control 0-100% (0=default)	proportional
*	*	61	75	47		Blue pixel 15	
					0-255	Blue LED saturation control 0-100% (0=default)	proportional
*	*	*	76	*		Dimmer 15	
					0-255	Dimmer intensity control 0-100% (0=default)	proportional
* In the Tungsten effect simulation the Dimmer channel imitates behaviour of the halogen lamp during dimming							
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