

DMX protocol

Robin ColorStrobe - DMX protocol									
Version: 1.0									
Mode/channel					DMX value	Function	Type of control		
1	2	3	4	5					
1	1	1	*	*		Red/Cyan foreground (8 bit)- all zones			
					0 - 255	Red orCyan colour saturation control - coarse (0-100%)	proportional		
*	2	*	*	*		Red/Cyan foreground (16bit)- all zones			
					0 - 255	Red or Cyan colour saturation control - fine	proportional		
2	3	2	*	*		Green/Magenta foreground (8-bit) - all zones			
					0 - 255	Green or Magenta colour saturation control - coarse (0-100%)	proportional		
*	4	*	*	*		Green/Magenta foreground (16bit) - all zones			
					0 - 255	Green or Magenta colour saturation control - fine	proportional		
3	5	3	*	*		Blue/Yellow foreground (8 bit) - all zones			
					0 - 255	Blue or Yellow colour saturation control - coarse (0-100%)	proportional		
*	6	*	*	*		Blue/Yellow foreground (16bit) -all zones			
					0 - 255	Blue or Yellow colour saturation control - fine	proportional		
4	7	4	*	*		White foreground (8 bit) - all zones			
					0-255	White colour saturation control - coarse (0-100%) -RGBW mode only	proportional		
*	8	*	*	*		White foreground (16 bit) - all zones			
					0 - 255	White colour saturation control - fine (RGBW mode only)	proportional		
5	9	5	*	*		CTC			
					0	No function	step		
					1-255	Col. temperature correction from 8000K to 2700K	proportional		
6	10	6	*	*		Virtual colour wheel			
					0	No function	step		
					1-2	White 2700 K	step		
					3	White 2700 K (Halogen lamp mode)*	step		
					4-5	White 3200 K	step		
					6	White 3200 K (Halogen lamp mode)*	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 slow-> fast	proportional		
					252-255	Rainbow effect(without fade time) from slow-> fast	proportional		
7	11	7	*	*		Intensity foreground (8bit)-all zones			
					0-255	Coarse intensity from min. to max.	proportional		

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1	2	3	4	5			
*	12	*	*	*		Intensity foreground (16bit)-all zones	
					0-255	Fine intensity from min. to max.	proportional
8	13	8	*	*		Duration	
					0-255	Light time duration from min. —>max.	step
9	14	9	*	*		Rate	
					0-5	No flash	step
					6-255	Flash frequency from min. —>max	step
						<i>Note: Duration time<Rate: flashing</i>	
						<i>Duration time>= Rate: Light continuously On</i>	
*	*	10	*	*		Special effects	
					0-1	No function	step
					2-5	Permanent lightening	step
					6-42	Ramp up (use channels Duration and Rate for control)	step
					43-85	Ramp down (use channels Duration and Rate for control)	step
					86-128	Ramp up/down (use channels Duration and Rate for control)	step
					129-171	Random strobe (use channel Rate for control)	step
					172-214	Lightning (use channel Rate for control)	step
					215-255	Spikes (use channels Duration and Rate for control)	step
*	*	11	*	*		Special Functions	
					0 -19	Reserved	
						<i>To activate following functions , stop in DMX value for at least 3 sec. Corresponding menu items are temporarily overrided.</i>	
					20-24	Graphic display On	step
					25-29	Graphic display Off	step
					30-34	RGBW colour mixing mode	step
					35-39	CMY colour mixing mode	step
					40-44	Colour calibration On	step
					45-49	Colour calibration Off	step
					50-54	Foreground overwrites Background	step
					55-59	Foreground + Background	step
					60-64	Foreground and Background - standard (default) behaviour	step
					65-69	Fans mode: Auto	step
					70-74	Fans mode: high	step
					75-79	White counting On	step
					80-84	White counting Off	step
					85-89	Dimmer curve: linear	step
					90-94	Dimmer curve: square law	step
					95-255	Reserved	
*	*	12	*	*		Red/Cyan Background (8 bit)- all zones	
					0 - 255	Red or Cyan colour saturation control - coarse (0-100%)	proportional
*	*	13	*	*		Green/Magenta Background (8 bit) - all zones	
					0 - 255	Green or Magenta colour saturation control - coarse (0-100%)	proportional
*	*	14	*	*		Blue/Yellow Background (8 bit) - all zones	
					0 - 255	Blue or Yellow colour saturation control - coarse (0-100%)	proportional
*	*	15	*	*		White Background (8 bit) - all zones	
					0-255	White colour saturation control - coarse (0-100%)-only RGBW mode	proportional
*	*	16	*	*		Intensity Background (8bit)-all zones	
					0-255	Coarse intensity from min. to max.	proportional

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1	2	3	4	5			
*	*	17	*	*		Zone Effects	
					0-2	No function	step
					3-4	Effect 1	step
					5-6	Effect 2	step
					7-8	Effect 3	step
					9-10	Effect 4	step
					11-12	Effect 5	step
					13-14	Effect 6	step
					15-16	Effect 7	step
					17-18	Effect 8	step
					19-20	Effect 9	step
					21-22	Effect 10	step
					23-24	Effect 11	step
					25-26	Effect 12	step
					27-28	Effect 13	step
					29-30	Effect 14	step
					31-32	Effect 15	step
					33-34	Effect 16	step
					35-36	Effect 17	step
					37-38	Effect 18	step
					39-40	Effect 19	step
					41-42	Effect 20	step
					43-44	Effect 21	step
					45-46	Effect 22	step
					47-48	Effect 23	step
					49-50	Effect 24	step
					51-52	Effect 25	step
					53-255	Reserved	step
*	*	18	*	*		Zone Effects Speed	
					0-63	Speed from min. —>max. without fade time	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
*	*	*	1	1		Red intensity (8bit)-zone 1	
					0-255	Coarse red intensity from 0% to 100%	proportional
*	*	*	2	2		Green intensity (8bit)-zone 1	
					0-255	Coarse green intensity from 0% to 100%	proportional
*	*	*	3	3		Blue intensity (8bit)-zone 1	
					0-255	Coarse blue intensity from 0% to 100%	proportional
*	*	*	4	4		White intensity (8bit)-zone 1	
					0-255	Coarse white intensity from 0% to 100%	proportional
*	*	*	5	5		Intensity (8bit)-zone 1	
					0-255	Coarse intensity from 0% to 100%	proportional
*	*	*	6	6		Duration - zone 1	
					0-255	Light time duration from min. —>max.	step
*	*	*	7	7		Rate - zone 1	
					0-5	No flash	step
					6-255	Flash frequency from min. —>max	step
*	*	*	8	8		Red intensity (8bit)-zone 2	

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1	2	3	4	5			
					0-255	Coarse red intensity from 0% to 100%	proportional
*	*	*	9	9		Green intensity (8bit)-zone 2	
					0-255	Coarse green intensity from 0% to 100%	proportional
*	*	*	10	10		Blue intensity (8bit)-zone 2	
					0-255	Coarse blue intensity from 0% to 100%	proportional
*	*	*	11	11		White intensity (8bit)-zone 2	
					0-255	Coarse white intensity from 0% to 100%	proportional
*	*	*	12	12		Intensity (8bit)-zone 2	
					0-255	Coarse intensity from 0% to 100%	proportional
*	*	*	13	13		Duration - zone 2	
					0-255	Light time duration from min. —>max.	step
*	*	*	14	14		Rate - zone 2	
					0-5	No flash	step
					6-255	Flash frequency from min. —>max	step
*	*	*	15	15		Red intensity (8bit)-zone 3	
					0-255	Coarse red intensity from 0% to 100%	proportional
*	*	*	16	16		Green intensity (8bit)-zone 3	
					0-255	Coarse green intensity from 0% to 100%	proportional
*	*	*	17	17		Blue intensity (8bit)-zone 3	
					0-255	Coarse blue intensity from 0% to 100%	proportional
*	*	*	18	18		White intensity (8bit)-zone 3	
					0-255	Coarse white intensity from 0% to 100%	proportional
*	*	*	19	19		Intensity (8bit)-zone 3	
					0-255	Coarse intensity from 0% to 100%	proportional
*	*	*	20	20		Duration - zone 3	
					0-255	Light time duration from min. —>max.	step
*	*	*	21	21		Rate - zone 3	
					0-5	No flash	step
					6-255	Flash frequency from min. —>max	step
*	*	*	22	22		Red intensity (8bit)-zone 4	
					0-255	Coarse red intensity from 0% to 100%	proportional
*	*	*	23	23		Green intensity (8bit)-zone 4	
					0-255	Coarse green intensity from 0% to 100%	proportional
*	*	*	24	24		Blue intensity (8bit)-zone 4	
					0-255	Coarse blue intensity from 0% to 100%	proportional
*	*	*	25	25		White intensity (8bit)-zone 4	
					0-255	Coarse white intensity from 0% to 100%	proportional
*	*	*	26	26		Intensity (8bit)-zone 4	
					0-255	Coarse intensity from 0% to 100%	proportional
*	*	*	27	27		Duration - zone 4	
					0-255	Light time duration from min. —>max.	step
*	*	*	28	28		Rate - zone 4	
					0-5	No flash	step
					6-255	Flash frequency from min. —>max	step
*	*	*	*	29		Red intensity (8bit)-zone 5	
					0-255	Coarse red intensity from 0% to 100%	proportional
*	*	*	*	30		Green intensity (8bit)-zone 5	
					0-255	Coarse green intensity from 0% to 100%	proportional
*	*	*	*	31		Blue intensity (8bit)-zone 5	

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1	2	3	4	5			
					0-255	Coarse blue intensity from 0% to 100%	proportional
*	*	*	*	32		White intensity (8bit)-zone 5	
					0-255	Coarse white intensity from 0% to 100%	proportional
*	*	*	*	33		Intensity (8bit)-zone 5	
					0-255	Coarse intensity from 0% to 100%	proportional
*	*	*	*	34		Duration - zone 5	
					0-255	Light time duration from min. —>max.	step
*	*	*	*	35		Rate - zone 5	
					0-5	No flash	step
					6-255	Flash frequency from min. —>max	step
*	*	*	*	36		Red intensity (8bit)-zone 6	
					0-255	Coarse red intensity from 0% to 100%	proportional
*	*	*	*	37		Green intensity (8bit)-zone 6	
					0-255	Coarse green intensity from 0% to 100%	proportional
*	*	*	*	38		Blue intensity (8bit)-zone 6	
					0-255	Coarse blue intensity from 0% to 100%	proportional
*	*	*	*	39		White intensity (8bit)-zone 6	
					0-255	Coarse white intensity from 0% to 100%	proportional
*	*	*	*	40		Intensity (8bit)-zone 6	
					0-255	Coarse intensity from 0% to 100%	proportional
*	*	*	*	41		Duration - zone 6	
					0-255	Light time duration from min. —>max.	step
*	*	*	*	42		Rate - zone 6	
					0-5	No flash	step
					6-255	Flash frequency from min. —>max	step
*	*	*	*	43		Red intensity (8bit)-zone 7	
					0-255	Coarse red intensity from 0% to 100%	proportional
*	*	*	*	44		Green intensity (8bit)-zone 7	
					0-255	Coarse green intensity from 0% to 100%	proportional
*	*	*	*	45		Blue intensity (8bit)-zone 7	
					0-255	Coarse blue intensity from 0% to 100%	proportional
*	*	*	*	46		White intensity (8bit)-zone 7	
					0-255	Coarse white intensity from 0% to 100%	proportional
*	*	*	*	47		Intensity (8bit)-zone 7	
					0-255	Coarse intensity from 0% to 100%	proportional
*	*	*	*	48		Duration - zone 7	
					0-255	Light time duration from min. —>max.	step
*	*	*	*	49		Rate - zone 7	
					0-5	No flash	step
					6-255	Flash frequency from min. —>max	step
*	*	*	*	50		Red intensity (8bit)-zone 8	
					0-255	Coarse red intensity from 0% to 100%	proportional
*	*	*	*	51		Green intensity (8bit)-zone 8	
					0-255	Coarse green intensity from 0% to 100%	proportional
*	*	*	*	52		Blue intensity (8bit)-zone 8	
					0-255	Coarse blue intensity from 0% to 100%	proportional
*	*	*	*	53		White intensity (8bit)-zone 8	
					0-255	Coarse white intensity from 0% to 100%	proportional
*	*	*	*	54		Intensity (8bit)-zone 8	

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1	2	3	4	5			
					0-255	Coarse intensity from 0% to 100%	proportional
*	*	*	*	55		Duration - zone 8	
					0-255	Light time duration from min. —>max.	step
*	*	*	*	56		Rate - zone 8	
					0-5	No flash	step
					6-255	Flash frequency from min. —>max	step
*	*	*	*	57		Red intensity (8bit)-zone 9	
					0-255	Coarse red intensity from 0% to 100%	proportional
*	*	*	*	58		Green intensity (8bit)-zone 9	
					0-255	Coarse green intensity from 0% to 100%	proportional
*	*	*	*	59		Blue intensity (8bit)-zone 9	
					0-255	Coarse blue intensity from 0% to 100%	proportional
*	*	*	*	60		White intensity (8bit)-zone 9	
					0-255	Coarse white intensity from 0% to 100%	proportional
*	*	*	*	61		Intensity (8bit)-zone 9	
					0-255	Coarse intensity from 0% to 100%	proportional
*	*	*	*	62		Duration - zone 9	
					0-255	Light time duration from min. —>max.	step
*	*	*	*	63		Rate - zone 9	
					0-5	No flash	step
					6-255	Flash frequency from min. —>max	step
*	*	*	*	64		Red intensity (8bit)-zone 10	
					0-255	Coarse red intensity from 0% to 100%	proportional
*	*	*	*	65		Green intensity (8bit)-zone 10	
					0-255	Coarse green intensity from 0% to 100%	proportional
*	*	*	*	66		Blue intensity (8bit)-zone 10	
					0-255	Coarse blue intensity from 0% to 100%	proportional
*	*	*	*	67		White intensity (8bit)-zone 10	
					0-255	Coarse white intensity from 0% to 100%	proportional
*	*	*	*	68		Intensity (8bit)-zone 10	
					0-255	Coarse intensity from 0% to 100%	proportional
*	*	*	*	69		Duration - zone 10	
					0-255	Light time duration from min. —>max.	step
*	*	*	*	70		Rate - zone 10	
					0-5	No flash	step
					6-255	Flash frequency from min. —>max	step
*	*	*	*	71		Red intensity (8bit)-zone 11	
					0-255	Coarse red intensity from 0% to 100%	proportional
*	*	*	*	72		Green intensity (8bit)-zone 11	
					0-255	Coarse green intensity from 0% to 100%	proportional
*	*	*	*	73		Blue intensity (8bit)-zone 11	
					0-255	Coarse blue intensity from 0% to 100%	proportional
*	*	*	*	74		White intensity (8bit)-zone 11	
					0-255	Coarse white intensity from 0% to 100%	proportional
*	*	*	*	75		Intensity (8bit)-zone 11	
					0-255	Coarse intensity from 0% to 100%	proportional
*	*	*	*	76		Duration - zone 11	
					0-255	Light time duration from min. —>max.	step
*	*	*	*	77		Rate - zone 11	

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1	2	3	4	5			
					0-5	No flash	step
					6-255	Flash frequency from min. →max	step
*	*	*	*	78		Red intensity (8bit)-zone 12	
					0-255	Coarse red intensity from 0% to 100%	proportional
*	*	*	*	79		Green intensity (8bit)-zone 12	
					0-255	Coarse green intensity from 0% to 100%	proportional
*	*	*	*	80		Blue intensity (8bit)-zone 12	
					0-255	Coarse blue intensity from 0% to 100%	proportional
*	*	*	*	81		White intensity (8bit)-zone 12	
					0-255	Coarse white intensity from 0% to 100%	proportional
*	*	*	*	82		Intensity (8bit)-zone 12	
					0-255	Coarse intensity from 0% to 100%	proportional
*	*	*	*	83		Duration - zone 12	
					0-255	Light time duration from min. →max.	step
*	*	*	*	84		Rate - zone 12	
					0-5	No flash	step
					6-255	Flash frequency from min. →max	step

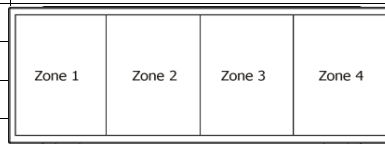
* In the Halogen lamp mode the Dimmer channel imitates behaviour of the halogen lamp during dimming

Order of zones (front view) :

Mode 1,2,3



Mode 4



Mode 5

