

DMX protocol

Robin DLF - DMX protocol - version 1.3						
Mode/channel			DMX Value	Function	Type of control	
1	2	3				
1	1	1		Pan		
			0 - 255	Pan movement by 540°	proportional	
2	2	*		Pan Fine		
			0 - 255	Fine control of pan movement	proportional	
3	3	2		Tilt		
			0 - 255	Tilt movement by 260°	proportional	
4	4	*		Tilt fine		
			0 - 255	Fine control of tilt movement	proportional	
5	5	3		Pan/Tilt speed , Pan/Tilt time		
			0	Max. speed (tracking mode)	step	
				<i>P./T. speed-set Speed Mode in menu: Pan/Tilt Mode</i>		
			1 - 255	Speed from max. to min. (vector mode)	proportional	
				<i>P./T. time - set Time Mode in menu: Pan/Tilt Mode</i>		
			1 - 255	Time from 0.1 s to 25.5 sec.	proportional	
6	6	4		Power/Special functions		
				<i>To activate following functions, stop in DMX value for at least 3 seconds.</i>		
			0 - 4	Flight Case Parking Position Off	step	
			5 - 9	Flight Case Parking Position On	step	
				<i>To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. („Shutter,Strobe“ channel 27/22/20 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden).</i>		
			10-14	DMX input: Wired DMX *	step	
			15-19	DMX input: Wireless DMX *	step	
				* function is active only 10 seconds after switching the fixture on		
			20-24	White point 8000K ON	step	
			25-29	White point 8000K OFF	step	
			30-39	RGB colour mixing mode	step	
			40-49	CMY colour mixing mode	step	
			50 - 59	Pan/Tilt speed mode	step	
			60 - 69	Pan/Tilt time mode	step	
			70 - 79	Blackout while pan/tilt moving	step	
			80 - 89	Disabled blackout while pan/tilt moving	step	
			90-129	Reserved		
				<i>To activate following functions, stop in DMX value for at least 3 seconds.</i>		
			130 - 139	Fixture reset (except pan/tilt)		
			140 - 149	Pan/Tilt reset	step	
			150 - 179	Reserved		
			180 - 189	Zoom//frost/ reset	step	
			190 - 199	Beam shaper reset	step	
			200 - 209	Total fixture reset	step	
			210 - 239	Reserved		
			240	Disable "Theatre mode"	step	
			241	"Theatre mode" -automatic control of fan noise	step	
			242 - 255	"Theatre mode" -fan noise control from min. to max.	proportional	
7	7	5		Virtual colour wheel		

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1	2	3			
			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 from slow-> fast	proportional
8	8	6		Red/Cyan (8 bit)***	
			0 - 255	Red or Cyan colour saturation control - coarse (0-100%)	proportional
9	*	*		Red/Cyan (16bit)***	
			0 - 255	Red or Cyan colour saturation control - fine	proportional
10	9	7		Green/Magenta (8 bit)***	
			0 - 255	Green or Magenta colour saturation control - coarse (0-100%)	proportional
11	*	*		Green/Magenta (16bit)***	
			0 - 255	Green or Magenta colour saturation control - fine	proportional
12	10	8		Blue/Yellow (8 bit)***	
			0 - 255	Blue or Yellow colour saturation control - coarse (0-100%)	proportional
13	*	*		Blue/ Yellow (16bit)***	
			0 - 255	Blue or Yellow colour saturation control - fine	proportional
14	11	9		White (8 bit)	
				If RGBW mode is selected:	
			0-255	White colour saturation control - coarse (0-100%)	proportional
				If CMY mode is selected:	
			0 - 255	No function	
15	*	*		White (16 bit)	
			0 - 255	White colour saturation control - fine (RGBW mode only)	proportional
16	12	10		CTC	
				<i>If function "White Point 8000K" is ON</i>	
			0-255	Col. temperature correction from 8000K to 2700K -for whites only (0=8000K, 64=5600K, 128=4200K, 192=3200K, 0=2700K)	proportional
				To get colour temperatures stated above, RGBW channels have to be set at the same value (e.g. 255DMX) or RGB=0 and White channel > 0 DMX	
				<i>If function "White Point 8000K" is OFF</i>	
			0-255	Colour temperature correction for mixed colours	proportional

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1	2	3			
17	13	11		Wide zoom	
			0	Wide zoom Off	step
			1-100	Wide zoom On	step
			101-255	Reserved	
18	14	12		Zoom	
			0 - 255	Zoom from min. to max. beam angle	proportional
19	*	*		Zoom - fine	
			0-255	Fine zooming	proportional
20	15	13		Barndoors rotation	
			0- 255	Rotation 0°--> 180°	proportional
21	16	14		Barndoor 1- movement	
			0- 255	Movement Out-->In	proportional
22	17	15		Barndoor 2- movement	
			0- 255	Movement Out-->In	proportional
23	18	16		Barndoor 3- movement	
			0- 255	Movement Out-->In	proportional
24	19	17		Barndoor 4- movement	
			0- 255	Movement Out-->In	proportional
25	20	18		Barndoors macros	
			0-3	No function	
			4-7	Macro 1	step
			8-11	Macro 2	step
			12-15	Macro 3	step
			16-19	Macro 4	step
			20-23	Macro 5	step
			24-27	Macro 6	step
			28-31	Macro 7	step
			32-35	Macro 8	step
			36-39	Macro 9	step
			40-43	Macro 10	step
			44-47	Macro 11	step
			48-51	Macro 12	step
			52-55	Macro 13	step
			56-59	Macro 14	step
			60-63	Macro 15	step
			64-67	Macro 16	step
			68-71	Macro 17	step
			72-75	Macro 18	step
			76-79	Macro 19	step
			80-83	Macro 20	step
			84-87	Macro 21	step
			88-91	Macro 22	step
			92-95	Macro 23	step
			96-99	Macro 24	step
			100-103	Macro 25	step
			104-107	Macro 26	step
			108-111	Macro 27	step
			112-115	Macro 28	step
			116-119	Macro 29	step
			120-123	Macro 30	step

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1	2	3			
			124-127	Macro 31	step
			128-131	Macro 32	step
			132-135	Macro 33	step
			136-139	Macro 34	step
			140-143	Macro 35	step
			144-147	Macro 36	step
			148-151	Macro 37	step
			152-155	Macro 38	step
			156-159	Macro 39	step
			160-163	Macro 40	step
			164-167	Macro 41	step
			168-255	Reserved	
26	21	19		Barndoors macro speed	
			0- 255	Speed from slow to fast.	proportional
27	22	20		Shutter/ strobe	
			0 - 31	Shutter closed	step
			32 - 63	Shutter open	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
28	23	21		Dimmer intensity	
			0 - 255	Dimmer intensity from 0% to 100%	proportional
29	*	*		Dimmer intensity - fine	
			0 - 255	Fine dimming	proportional
** In the Halogen lamp mode the Dimmer channel imitates behaviour of the halogen lamp during dimming					
*** Select RGB or CMY mixing mode on channel "Power/Special functions"					