Robin SPIIDER - DMX protocol

Version: 2.3 (10 modes) **Mode 1** - 3-zones, **Mode 2**-Basic, **Mode 3** -Advanced, **Mode 4** -Full RGBW

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
1	**1**	**1**	**1**		**Pan (8 bit)**	
				0 - 255	Pan movement by 540° (128=default)	proportional
2	**2**	**2**	**2**		**Pan Fine (16 bit)**	
				0 - 255	Fine control of pan movement (0=default)	proportional
3	**3**	**3**	**3**		**Tilt (8 bit)**	
				0 - 255	Tilt movement by 220° (128=default)	proportional
4	**4**	**4**	**4**		**Tilt fine (16 bit)**	
				0 - 255	Fine control of tilt movement (0=default)	proportional
5	**5**	**5**	**5**		**Pan/Tilt speed , Pan/Tilt time**	
				0	Standard mode (0=default)	step
				1	Max. Speed Mode	step
					Pan/Tilt speed mode	
				2 - 255	Speed from max. to min.	proportional
					Pan/Tilt time mode	
				2 - 255	Time from 0.2 s to 25.5 sec.	proportional
6	**6**	**6**	**6**		**Power/Special functions**	
				0 -9	Reserved (0=default)	
					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 53/27/31/31 must be at range: 0-31 DMX). Corresponding menu items are temporarily overriden (unless otherwise stated)	
				10-14	DMX input: Wired DMX	step
				15-19	DMX input: Wireless DMX *	step
				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	Pan/Tilt speed mode	step
				45 - 49	Pan/Tilt time mode	step
				50 -54	Blackout while pan/tilt moving	step
				55 -59	Disabled blackout while pan/tilt moving	step
				60 - 64	Dimmer curve-square law	step
				65 - 69	Dimmer curve-linear	step
				70 - 74	Fans mode: Auto	step
				75 - 79	Fans mode: High	step
				80-84	White point 8000K ON	step
				85-89	White point 8000K OFF	step
				90 -109	Reserved	
				110-114	Kling-Net On	step
				115-119	Kling-Net Off	step
				120-124	Parking position On	step
				125-129	Parking position Off	step
					To activate following functions, stop in DMX value for at least 3 seconds (except function Pixel index and Pixel Mirror). Corresponding menu items are temporarily overriden	

				130 - 139	Fixture reset (except pan/tilt)	
				140 - 149	Pan/Tilt reset	step
				150 - 159	Zoom reset	step
				160 - 169	Flower effect reset	step
				170-171	Tungsten effect simulation (750W) On **	step
				172-173	Tungsten effect simulation (1000W) On **	step
				174-175	Tungsten effect simulation (1200W) On **	step
				176-177	Tungsten effect simulation (2000W) On **	step
				178-179	Tungsten effect simulation (2500W) On **	step
				180-181	Tungsten effect simulation Off	step
				182-184	Reserved	
				185	PWM output frequency of LEDS: Standard (300Hz)****	step
				186	PWM output frequency of LEDS: High (600Hz)****	step
					**** You can adjust selected frequency in 6 steps Up or Down around selected frequency - see table below . Default value of PWM frequency set in the fixture is Standard.	
				187	LED Frequency (step -6)	step
				188	LED Frequency (step -5)	step
				189	LED Frequency (step -4)	step
				190	LED Frequency (step -3)	step
				191	LED Frequency (step -2)	step
				192	LED Frequency (step -1)	step
				193	LED Frequency (Standard or High)	step
				194	LED Frequency (step +1)	step
				195	LED Frequency (step +2)	step
				196	LED Frequency (step +3)	step
				197	LED Frequency (step +4)	step
				198	LED Frequency (step +5)	step
				199	LED Frequency (step +6)	step
				200 - 209	Total fixture reset	step
				210 - 221	Pixel index	proportional
				222 - 223	Pixel mirror On	step
				224 - 225	Pixel mirror Off	step
				226 - 236	Reserved	
				237	Save Pixel index and mirror to fixture	step
					The following RoboSpot related commands are only applicable when the RoboSpot is connected:	
				238 - 239	RoboSpot enabled	step
				240 - 241	RoboSpot disabled - except handle faders and pan/tilt	step
				242 - 243	RoboSpot fully disabled	step
				244	Disabled "Silent mode"	step
				245 - 255	Silent mode - fan noise control from min. to max.	proportional
7	**7**	**7**	**7**		**Virtual colour wheel**	
				0	No function (0=default)	step
				1-2	Filter 4 (Medium Bastard Amber)	step
				3-4	Filter 25 (Sunset Red)	step
				5-6	Filter 19 (Fire)	step
				7-8	Filter 26 (Bright Red)	step
				9-10	Filter 58 (Lavender)	step
				11-12	Filter 68 (Sky Blue)	step
				13-14	Filter 36 (Medium Pink)	step

				15-16	Filter 89 (Moss Green)	step
				17-18	Filter 88 (Lime Green)	step
				19-20	Filter 90 (Dark Yellow Green)	step
				21-22	Filter 49 (Medium Purple)	step
				23-24	Filter 52 (Light Lavender)	step
				25-26	Filter 102 (Light Amber)	step
				27-28	Filter 103 (Straw)	step
				29-30	Filter 140 (Summer Blue)	step
				31-32	Filter 124 (Dark Green)	step
				33-34	Filter 106 (Primary Red)	step
				35-36	Filter 111 (Dark Pink)	step
				37-38	Filter 115 (Peacock Blue)	step
				39-40	Filter 126 (Mauve)	step
				41-42	Filter 117 (Steel Blue)	step
				43-44	Filter 118 (Light Blue)	step
				45-46	Filter 122 (Fern Green)	step
				47-48	Filter 182 (Light Red)	step
				49-50	Filter 121 (Filter Green)	step
				51-52	Filter 128 (Bright Pink)	step
				53-54	Filter 131 (Marine Blue)	step
				55-56	Filter 132 (Medium Blue)	step
				57-58	Filter 134 (Golden Amber)	step
				59-60	Filter 135 (Deep Golden Amber)	step
				61-62	Filter 136 (Pale Lavender)	step
				63-64	Filter 137 (Special Lavender)	step
				65-66	Filter 138 (Pale Green)	step
				67-68	Filter 798 (Chrysalis Pink)	step
				69-70	Filter 141 (Bright Blue)	step
				71-72	Filter 147 (Apricot)	step
				73-74	Filter 148 (Bright Rose)	step
				75-76	Filter 152 (Pale Gold)	step
				77-78	Filter 154 (Pale Rose)	step
				79-80	Filter 157 (Pink)	step
				81-82	Filter 143 (Pale Navy Blue)	step
				83-84	Filter 162 (Bastard Amber)	step
				85-86	Filter 164 (Flame Red)	step
				87-88	Filter 165 (Daylight Blue)	step
				89-90	Filter 169 (Lilac Tint)	step
				91-92	Filter 170 (Deep Lavender)	step
				93-94	Filter 172 (Lagoon Blue)	step
				95-96	Filter 194 (Surprise Pink)	step
				97-98	Filter 180 (Dark Lavender)	step
				99-100	Filter 181 (Congo Blue)	step
				101-102	Filter 197 (Alice Blue)	step
				103-104	Filter 201 (Full C.T. Blue)	step
				105-106	Filter 202 (Half C.T. Blue)	step
				107-108	Filter 203 (Quarter C.T. Blue)	step
				109-110	Filter 204 (Full C.T. Orange)	step
				111-112	Filter 219 (Fluorescent Green)	step
				113-114	Filter 206 (Quarter C.T. Orange)	step

				115-116	Filter 247 (Filter Minus Green)	step
				117-118	Filter 248 (Half Minus Green)	step
				119-120	Filter 281 (Three Quarter C.T. Blue)	step
				121-122	Filter 285 (Three Quarter C.T. Orange)	step
				123-124	Filter 352 (Glacier Blue)	step
				125-126	Filter 353 (Lighter Blue)	step
				127-128	Filter 507 (Madge)	step
				129-130	Filter 778 (Millennium Gold)	step
				131-132	Filter 793 (Vanity Fair)	step
				133-235	Raw DMX	proportional
				236-245	Rainbow effect (with fade time) from slow-> fast	proportional
				246-255	Rainbow effect (without fade time) from slow-> fast	proportional
*	8	8	8		**Red/Cyan (8 bit)- all pixels*** **	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	9	9		**Red/Cyan (16bit)- all pixels*** **	
				0 - 255	Colour saturation control - fine (255=default)	proportional
*	9	10	10		**Green/Magenta (8 bit) - all pixels *** **	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	11	11		**Green/Magenta (16bit) - all pixels*** **	
				0 - 255	Colour saturation control - fine (255=default)	proportional
*	10	12	12		**Blue/Yellow (8 bit) - all pixels *** **	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	13	13		**Blue/ Yellow (16bit) -all pixels*** **	
				0 - 255	Colour saturation control - fine (255=default)	proportional
*	11	14	14		**White (8 bit) - all pixels**	
					If RGBW mode is selected:	
				0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
					If CMY mode is selected:	
				0 - 255	No function	
*	*	15	15		**White (16 bit) - all pixels**	
				0 - 255	Colour saturation control - fine (255=default)	proportional
8	*	*	*		**Red/Cyan (8 bit) - zone 1*** **	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
9	*	*	*		**Red/Cyan (16bit)- zone 1*** **	
				0 - 255	Colour saturation control - fine (255=default)	proportional
10	*	*	*		**Green/Magenta (8 bit) - zone 1*** **	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
11	*	*	*		**Green/Magenta (16bit)- zone 1*** **	
				0 - 255	Colour saturation control - fine (255=default)	proportional
12	*	*	*		**Blue/Yellow (8 bit) - zone 1*** **	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
13	*	*	*		**Blue/Yellow (16bit)- zone 1*** **	
				0 - 255	Colour saturation control - fine (255=default)	proportional
14	*	*	*		**White (8 bit) - zone 1**	
					If RGBW mode is selected:	
				0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
					If CMY mode is selected:	
				0 - 255	No function	
15	*	*	*		**White (16 bit) - zone 1**	
				0 - 255	Colour saturation control - fine (255=default)	proportional

16	*	*	*		**Red/Cyan (8 bit) - zone 2*** **	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
17	*	*	*		**Red/Cyan (16bit)- zone 2*** **	
				0 - 255	Colour saturation control - fine (255=default)	proportional
18	*	*	*		**Green/Magenta (8 bit) - zone 2*** **	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
19	*	*	*		**Green/Magenta (16bit)- zone 2*** **	
				0 - 255	Colour saturation control - fine (255=default)	proportional
20	*	*	*		**Blue/Yellow (8 bit) - zone 2*** **	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
21	*	*	*		**Blue/Yellow (16bit)- zone 2*** **	
				0 - 255	Colour saturation control - fine (255=default)	proportional
22	*	*	*		**White (8 bit) - zone 2**	
					If RGBW mode is selected:	
				0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
					If CMY mode is selected:	
				0 - 255	No function	
23	*	*	*		**White (16 bit) - zone 2**	
				0 - 255	Colour saturation control - fine (255=default)	proportional
24	*	*	*		**Red/Cyan (8 bit) - zone 3*** **	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
25	*	*	*		**Red/Cyan (16bit)- zone 3*** **	
				0 - 255	Colour saturation control - fine (255=default)	proportional
26	*	*	*		**Green/Magenta (8 bit) - zone 3*** **	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
27	*	*	*		**Green/Magenta (16bit)- zone 3*** **	
				0 - 255	Colour saturation control - fine (255=default)	proportional
28	*	*	*		**Blue/Yellow (8 bit) - zone 3*** **	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
29	*	*	*		**Blue/Yellow (16bit)- zone 3*** **	
				0 - 255	Colour saturation control - fine (255=default)	proportional
30	*	*	*		**White (8 bit) - zone 3**	
					If RGBW mode is selected:	
				0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
					If CMY mode is selected:	
				0 - 255	No function	
31	*	*	*		**White (16 bit) - zone 3**	
				0 - 255	Colour saturation control - fine (255=default)	proportional
32	**12**	**16**	**16**		**CTC**	
					If function "White Point 8000K" is ON	
				0-255	Col. temperature correction from 8000K to 2700K -for whites only	proportional
					(0=8000K, 64=5600K, 128=4200K, 192=3200K, 255=2700K)	
					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 (0=default)	
					(To activate Tungsten effect at 2700K and 3200K , set DMX value at "Power/Special functions" channel)	
					If function "White Point 8000K" is OFF	
				0-255	Colour temperature correction from cool col. to warm colours	proportional
33	**13**	**17**	**17**		**Colour Mix control**	

					The channel defines relation between color channels	
					IF Flower effect is active, its colour channels always have priority!	
					Global = Global Colours (RGBW, Virtual Colour Wheel)	
					Pixel = Pixel Colours (RGB individual pixels or Kling-Net)	
				0-9	Global colours (Global has priority)	
				10-19	Maximum mode (highest values have priority)	step
				20-29	Minimum mode (lowest values have priority)	step
				30-39	Multiply mode (multiply Global and Pixel)	step
				40-49	Addition mode (Global + Pixel) (45=default)	step
				50-59	Subtraction mode (Global – Pixel)	step
				60-69	Inverted Subtraction mode (Pixel – Global)	step
				70-79	Coloured background	step
				80-127	Raw DMX	proportional
				128	Global colours only (Global has priority)	step
				129-254	Crossfade (crossfade between Global and Pixel)	proportional
				255	Pixel colours (Pixel has priority)	step
34	**14**	**18**	**18**		**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	Raw DMX	proportional
35	**15**	**19**	**19**		**Pixel effects speed**	
				0-127	Speed from from min. to max. (0=default)	proportional
				128-255	Speed from max. to min. (opposite direction)	proportional
36	**16**	**20**	**20**		**Pixel effects fade**	
				0	Without fade time (0=default)	step
				1-255	Fade time from min. to max.	proportional
37	**17**	**21**	**21**		**Flower Effect**	
				0	Open position-without Flower Effect (0=default)	step
				1 - 127	Flower Effect forwards rotation from fast to slow	proportional
				128	Flower Effect -without rotation	step
				129-255	Backwards rotation from slow to fast	proportional
38	**18**	**22**	**22**		**Flower Effect - Red (8 bit)**	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
39	**19**	**23**	**23**		**Flower Effect - Green (8 bit)**	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
40	**20**	**24**	**24**		**Flower effect - Blue (8 bit)**	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
41	**21**	**25**	**25**		**Flower Effect - White (8 bit)**	
				0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
42	**22**	**26**	**26**		**Flower Effect - colour macros**	
					(Flower Effect channel has to be set > 0 DMX)	step
				0	Open position - without macros (0=default) *(Flower effect colour macros have priority to RGBW colours/Virtual colour wheel,Flower effect colours)*	
				1-2	Flower Effect colour macro 1	step
				3-4	Flower Effect colour macro 2	step
				5-6	Flower Effect colour macro 3	step

					:	
				119-120	Flower Effect colour macro 60	step
				121-255	Raw DMX	proportional
43	**23**	**27**	**27**		**Flower Effect - Shutter/ strobe**	
				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
44	**24**	**28**	**28**		**Flower Effect - Dimmer intensity (8 bit)**	
				0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
45	**25**	**29**	**29**		**Zoom**	
				0-255	Zoom from max. to min.beam angle (128=default)	proportional
46	*****	**30**	**30**		**Zoom - fine**	
				0-255	Fine zooming (0=default)	proportional
47	**26**	**31**	**31**		**Shutter/ strobe**	
				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
48	**27**	**32**	**32**		**Dimmer intensity (8 bit)**	
				0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
49	*****	**33**	**33**		**Dimmer intensity - fine (16 bit)**	
				0 - 255	Fine dimming (0=default)	proportional
*****	*****	*****	**34**		**Red pixel 1**	
				0-255	Red LED saturation control 0-100% (0=default)	proportional
*****	*****	*****	**35**		**Green pixel 1**	
				0-255	Green LED saturation control 0-100% (0=default)	proportional
*****	*****	*****	**36**		**Blue pixel 1**	
				0-255	Blue LED saturation control 0-100% (0=default)	proportional
					:	
*****	*****	*****	**88**		**Red pixel 19**	
				0-255	Red LED saturation control 0-100% (0=default)	proportional
*****	*****	*****	**89**		**Green pixel 19**	
				0-255	Green LED saturation control 0-100% (0=default)	proportional
*****	*****	*****	**90**		**Blue pixel 19**	
				0-255	Blue LED saturation control 0-100% (0=default)	proportional
* function is active only 10 seconds after switching the fixture on						
** In the Tungsten effect simulation the Dimmer channel imitates behaviour of the halogen lamp during dimming						
*** Select RGB or CMY mixing mode on channel "Power/Special functions"						

Robin SPIIDER - DMX protocol

Version: 2.3 (10 modes) **Mode 5**-Wash, **Mode 6**-Pattern, **Mode 7**-Pixel RGB, **Mode 8**-Pixel RGBW, **Mode 9**-Pattern full RGB, **Mode 10**-Pattern full RGBW

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
1	**1**	**1**	**1**	**1**	**1**		**Pan (8 bit)**	
						0 - 255	Pan movement by 540° (128=default)	proportional
2	**2**	**2**	**2**	**2**	**2**		**Pan Fine (16 bit)**	
						0 - 255	Fine control of pan movement (0=default)	proportional
3	**3**	**3**	**3**	**3**	**3**		**Tilt (8 bit)**	
						0 - 255	Tilt movement by 220° (128=default)	proportional
4	**4**	**4**	**4**	**4**	**4**		**Tilt fine (16 bit)**	
						0 - 255	Fine control of tilt movement (0=default)	proportional
5	**5**	**5**	**5**	**5**	**5**		**Pan/Tilt speed , Pan/Tilt time**	
						0	Standard mode (0=default)	step
						1	Max. Speed Mode	step
							Pan/Tilt speed mode	
						2 - 255	Speed from max. to min.	proportional
							Pan/Tilt time mode	
						2 - 255	Time from 0.2sec. to 25.5 sec.	proportional
6	**6**	**6**	**6**	**6**	**6**		**Power/Special functions**	
						0 -9	Reserved (0=default)	
							To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. („Master Shutter/Strobe" channel 26/45/32/32/45/45 must be at range: 0-31 DMX). Corresponding menu items are temporarily overriden (unless otherwise stated)	
						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	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	Pan/Tilt speed mode	step
						45-49	Pan/Tilt time mode	step
						50-54	Blackout while pan/tilt moving	step
						55-59	Disabled blackout while pan/tilt moving	step
						60-64	Dimmer curve-square law	step
						65-69	Dimmer curve-linear	step
						70-74	Fans mode: Auto	step
						75-79	Fans mode: High	step
						80-84	White point 8000K ON	step
						85-89	White point 8000K OFF	step
						90-109	Reserved	
						110-114	Kling-Net On	step
						115-119	Kling-Net Off	step
						120-124	Parking position On	step
						125-129	Parking position Off	step

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
							To activate following functions, stop in DMX value for at least 3 seconds (except function Pixel index and Pixel mirror). Corresponding menu items are temporarily overriden.	
						130 - 139	Fixture reset (except pan/tilt)	
						140 - 149	Pan/Tilt reset	step
						150 - 159	Zoom reset	step
						160 - 169	Flower effect reset	step
						170-171	Tungsten effect simulation (750W) On **	step
						172-173	Tungsten effect simulation (1000W) On **	step
						174-175	Tungsten effect simulation (1200W) On **	step
						176-177	Tungsten effect simulation (2000W) On **	step
						178-179	Tungsten effect simulation (2500W) On **	step
						180-181	Tungsten effect simulation Off	step
						182-184	Reserved	
						185	PWM output frequency of LEDS: Standard (300Hz)*	step
						186	PWM output frequency of LEDS: High (600Hz)*	step
							* You can adjust selected frequency in 6 steps Up or Down around selected frequency - see table below . Default value of PWM frequency set in the fixture is Standard.	
						187	LED Frequency (step -6)	step
						188	LED Frequency (step -5)	step
						189	LED Frequency (step -4)	step
						190	LED Frequency (step -3)	step
						191	LED Frequency (step -2)	step
						192	LED Frequency (step -1)	step
						193	LED Frequency (Standard or High)	step
						194	LED Frequency (step +1)	step
						195	LED Frequency (step +2)	step
						196	LED Frequency (step +3)	step
						197	LED Frequency (step +4)	step
						198	LED Frequency (step +5)	step
						199	LED Frequency (step +6)	step
						200 - 209	Total fixture reset	step
						210 - 221	Pixel index	proportional
						222 - 223	Pixel mirror On	step
						224 - 225	Pixel mirror Off	step
						226 - 236	Reserved	
						237	Save Pixel index and mirror to fixture	step
							The following RoboSpot related commands are only applicable when the RoboSpot is connected:	
						238 - 239	RoboSpot enabled	step
						240 - 241	RoboSpot disabled - except handle faders and pan/tilt	step
						242 - 243	RoboSpot fully disabled	step
						244	Disabled "Silent mode"	step
						245 - 255	Silent mode - fan noise control from min. to max.	proportional
7	**7**	**7**	**7**	**7**	**7**		**Background - Virtual colour wheel**	
						0	No function (0=default)	step
						1-2	Filter 4 (Medium Bastard Amber)	step
						3-4	Filter 25 (Sunset Red)	step

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						5-6	Filter 19 (Fire)	step
						7-8	Filter 26 (Bright Red)	step
						9-10	Filter 58 (Lavender)	step
						11-12	Filter 68 (Sky Blue)	step
						13-14	Filter 36 (Medium Pink)	step
						15-16	Filter 89 (Moss Green)	step
						17-18	Filter 88 (Lime Green)	step
						19-20	Filter 90 (Dark Yellow Green)	step
						21-22	Filter 49 (Medium Purple)	step
						23-24	Filter 52 (Light Lavender)	step
						25-26	Filter 102 (Light Amber)	step
						27-28	Filter 103 (Straw)	step
						29-30	Filter 140 (Summer Blue)	step
						31-32	Filter 124 (Dark Green)	step
						33-34	Filter 106 (Primary Red)	step
						35-36	Filter 111 (Dark Pink)	step
						37-38	Filter 115 (Peacock Blue)	step
						39-40	Filter 126 (Mauve)	step
						41-42	Filter 117 (Steel Blue)	step
						43-44	Filter 118 (Light Blue)	step
						45-46	Filter 122 (Fern Green)	step
						47-48	Filter 182 (Light Red)	step
						49-50	Filter 121 (Filter Green)	step
						51-52	Filter 128 (Bright Pink)	step
						53-54	Filter 131 (Marine Blue)	step
						55-56	Filter 132 (Medium Blue)	step
						57-58	Filter 134 (Golden Amber)	step
						59-60	Filter 135 (Deep Golden Amber)	step
						61-62	Filter 136 (Pale Lavender)	step
						63-64	Filter 137 (Special Lavender)	step
						65-66	Filter 138 (Pale Green)	step
						67-68	Filter 798 (Chrysalis Pink)	step
						69-70	Filter 141 (Bright Blue)	step
						71-72	Filter 147 (Apricot)	step
						73-74	Filter 148 (Bright Rose)	step
						75-76	Filter 152 (Pale Gold)	step
						77-78	Filter 154 (Pale Rose)	step
						79-80	Filter 157 (Pink)	step
						81-82	Filter 143 (Pale Navy Blue)	step
						83-84	Filter 162 (Bastard Amber)	step
						85-86	Filter 164 (Flame Red)	step
						87-88	Filter 165 (Daylight Blue)	step
						89-90	Filter 169 (Lilac Tint)	step
						91-92	Filter 170 (Deep Lavender)	step
						93-94	Filter 172 (Lagoon Blue)	step
						95-96	Filter 194 (Surprise Pink)	step
						97-98	Filter 180 (Dark Lavender)	step
						99-100	Filter 181 (Congo Blue)	step

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						101-102	Filter 197 (Alice Blue)	step
						103-104	Filter 201 (Full C.T. Blue)	step
						105-106	Filter 202 (Half C.T. Blue)	step
						107-108	Filter 203 (Quarter C.T. Blue)	step
						109-110	Filter 204 (Full C.T. Orange)	step
						111-112	Filter 219 (Fluorescent Green)	step
						113-114	Filter 206 (Quarter C.T. Orange)	step
						115-116	Filter 247 (Filter Minus Green)	step
						117-118	Filter 248 (Half Minus Green)	step
						119-120	Filter 281 (Three Quarter C.T. Blue)	step
						121-122	Filter 285 (Three Quarter C.T. Orange)	step
						123-124	Filter 352 (Glacier Blue)	step
						125-126	Filter 353 (Lighter Blue)	step
						127-128	Filter 507 (Madge)	step
						129-130	Filter 778 (Millennium Gold)	step
						131-132	Filter 793 (Vanity Fair)	step
						133-235	Raw DMX	proportional
						236-245	Rainbow effect (with fade time) from slow-> fast	proportional
						246-255	Rainbow effect (without fade time) from slow-> fast	proportional
8	**8**	**8**	**8**	**8**	**8**		**Background - Red/Cyan (8 bit)*** **	
						0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	**9**	**9**	**9**	**9**	**9**		**Background - Red/Cyan (16bit)*** **	
						0 - 255	Colour saturation control - fine (255=default)	proportional
9	**10**	**10**	**10**	**10**	**10**		**Background - Green/Magenta (8 bit)*** **	
						0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	**11**	**11**	**11**	**11**	**11**		**Background - Green/Magenta (16bit) *** **	
						0 - 255	Colour saturation control - fine (255=default)	proportional
10	**12**	**12**	**12**	**12**	**12**		**Background - Blue/Yellow (8 bit)*** **	
						0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	**13**	**13**	**13**	**13**	**13**		**Background - Blue/ Yellow (16bit)*** **	
						0 - 255	Colour saturation control - fine (255=default)	proportional
11	**14**	**14**	**14**	**14**	**14**		**Background - White (8 bit) - all pixels**	
							If RGBW mode is selected:	
						0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
							If CMY mode is selected:	
						0 - 255	No function	
*	**15**	**15**	**15**	**15**	**15**		**Background - White (16 bit) - all pixels**	
						0 - 255	Colour saturation control - fine (255=default)	proportional
12	**16**	**16**	**16**	**16**	**16**		**Background - CTC**	
							If function "White Point 8000K" is ON	
						0-255	Col. temperature correction from 8000K to 2700K -for whites only	proportional
							(0=8000K, 64=5600K, 128=4200K, 192=3200K, 255=2700K)	
							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 (0=default)	
							(To activate Tungsten effect at 2700K and 3200K , set DMX value at "Power/Special functions" channel)	
							If function "White Point 8000K" is OFF	
						0-255	*Colour temperature correction from cool col. to warm colour*	proportional

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
13	**17**	**17**	**17**	**17**	**17**		**Background - Shutter/ strobe**	
						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
14	**18**	**18**	**18**	**18**	**18**		**Background - Dimmer intensity (8 bit)**	
						0 - 255	Dimmer intensity from 0% to 100% (255=default)	proportional
*	**19**	**19**	**19**	**19**	**19**		**Background Dimmer intensity - fine (16 bit)**	
						0 - 255	Fine dimming (255=default)	proportional
15	**20**	**20**	**20**	**20**	**20**		**Background - Active zone**	
						0-2	All pixels (0=default)	
						3-4	Ring 1 (Middle pixel)	step
						5-6	Ring 2	step
						7-8	Ring 3	step
						9-10	Ring 1+ Ring 2	step
						11-12	Ring 1+ Ring 3	step
						13-14	Ring 2 + Ring 3	step
						15-16	Sector 1	step
						17-18	Sector 2	step
						19-20	Sector 3	step
						21-22	Sector 4	step
						23-24	Sector 5	step
						25-26	Sector 6	step
						27-28	Sector 1+4	step
						29-30	Sector 1+4+Ring 1	step
						31-32	Sector 2+5	step
						33-34	Sector 2+5+Ring 1	step
						35-36	Sector 3+6	step
						37-38	Sector 3+6+Ring 1	step
						39-40	Sector 1+3+5	step
						41-42	Sector 1+3+5+Ring 1	step
						43-44	Sector 2+4+6	step
						45-46	Sector 2+4+6+Ring 1	step
						47-48	Sector 1+2+3	step
						49-50	Sector 2+3+4	step
						51-52	Sector 3+4+5	step
						53-54	Sector 4+5+6	step
						55-56	Sector 5+6+1	step
						57-58	sector 6+1+2	step
						59-255	Raw DMX	proportional
16	**21**	**21**	**21**	**21**	**21**		**Colour Mix control**	
							The channel defines relation between color channels	
							IF Flower effect is active, its colour channels always have priority!	

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
							Global = Global Colours (Background RGBW, Background Virtual Colour Wheel, Background CTC)	
							Pixel = Pixel Colours (RGB individual pixels or Kling-Net)	
						0-9	Global colours (Global has priority)	
						10-19	Maximum mode (highest values have priority)	step
						20-29	Minimum mode (lowest values have priority)	step
						30-39	Multiply mode (multiply Global and Pixel)	step
						40-49	Addition mode (Global + Pixel) (45=default)	step
						50-59	Subtraction mode (Global – Pixel)	step
						60-69	Inverted Subtraction mode (Pixel – Global)	step
						70-79	Coloured background	step
						80-127	Raw DMX	proportional
						128	Global colours only (Global has priority)	step
						129-254	Crossfade (crossfade between Global and Pixel)	proportional
						255	Pixel colours (Pixel has priority)	step
17	**22**	**22**	**22**	**22**	**22**		**Flower Effect**	
						0	Open position-without Flower Effect (0=default)	step
						1 - 127	Flower Effect forwards rotation from fast to slow	proportional
						128	Flower Effect -without rotation	step
						129-255	Backwards rotation from slow to fast	proportional
18	**23**	**23**	**23**	**23**	**23**		**Flower Effect - Red/Cyan (8 bit)**	
						0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
19	**24**	**24**	**24**	**24**	**24**		**Flower Effect - Green/Magenta (8 bit)**	
						0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
20	**25**	**25**	**25**	**25**	**25**		**Flower effect - Blue/Yellow (8 bit)**	
						0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
21	**26**	**26**	**26**	**26**	**26**		**Flower Effect - White (8 bit)**	
						0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
22	**27**	**27**	**27**	**27**	**27**		**Flower Effect - colour macros**	
							(Flower Effect channel has to be set > 0 DMX)	step
						0	Open position - without macros (0=default)	
							(Flower effect colour macros have priority to RGBW colours/Virtual colour wheel,Flower effect colours, channels Flower effect-Shutter/strobe and Flower effect-dimmer has to be open)	
						1-2	Flower Effect colour macro 1	step
						3-4	Flower Effect colour macro 2	step
						5-6	Flower Effect colour macro 3	step
							:	
						119-120	Flower Effect colour macro 60	step
						121-255	Raw DMX	proportional
23	**28**	**28**	**28**	**28**	**28**		**Flower Effect - Shutter/ strobe**	
						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

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						224 - 255	Shutter open	step
24	29	29	29	29	29		**Flower Effect - Dimmer intensity (8 bit)**	
						0 - 255	Dimmer intensity from 0% to 100% (255=default)	proportional
25	30	30	30	30	30		**Zoom**	
						0-255	Zoom from max. to min.beam angle (128=default)	proportional
*	31	31	31	31	31		**Zoom - fine**	
						0-255	Fine zooming (0=default)	proportional
*	32	*	*	32	32		**Pattern selection**	
						0-2	No pattern (0=default)	
						3-4	Pattern 1	step
						5-6	Pattern 2	step
						7-8	Pattern 3	step
						9-10	Pattern 4	step
						11-12	Pattern 5	step
						13-14	Pattern 6	step
						15-16	Pattern 7	step
						17-18	Pattern 8	step
						19-20	Pattern 9	step
						21-22	Pattern 10	step
						23-24	Pattern 11	step
						25-26	Pattern 12	step
						27-28	Pattern 13	step
						29-30	Pattern 14	step
						31-255	RAW DMX	proportional
*	33	*	*	33	33		**Pattern - Repeat (Size)**	
						0-2	Variant 1 (0=default)	step
						3-4	Variant 2	step
						5-6	Variant 3	step
						7-8	Variant 4	step
						9-10	Variant 5	step
						11-12	Variant 6	step
						13-14	Variant 7	step
						15-16	Variant 8	step
						17-18	Variant 9	step
						19-20	Variant 10	step
						21-22	Variant 11	step
						23-255	Raw DMX	proportional
*	34	*	*	34	34		**Pattern - Rotation**	
						0	No rotation (0=default)	step
						1-127	Pattern indexing	proportional
						128-190	Forwards rotation from fast to slow	proportional
						191-192	Pause - without rotation	step
						193-255	Backwards rotation from slow to fast	proportional
*	35	*	*	35	35		**Pattern - Fade**	
						0	Snap (0=default)	step
						1-255	Fade from min. to max.	proportional
*	36	*	*	36	36		**Pattern -Transition**	
						0	No fade (0=default)	step

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						1	100ms	step
							:	
						255	4 sec	step
*	**37**	*	*	**37**	**37**		**Pattern - Crossfade**	
						0	Background	step
						1-255	Crossfade between Background and Pattern 0-100% (255=default)	proportional
*	**38**	*	*	**38**	**38**		**Pattern - Red (8-bit)**	
						0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	**39**	*	*	**39**	**39**		**Pattern - Green (8-bit)**	
						0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	**40**	*	*	**40**	**40**		**Pattern - Blue (8-bit)**	
						0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	**41**	*	*	**41**	**41**		**Pattern - White (8-bit)**	
						0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	**42**	*	*	**42**	**42**		**Pattern - Colour macro**	
						0-2	No macro (0=default)	step
							Macros 1-15 allow control of colour change speed from max. to min.	
						3-8	Macro 1	proportional
						9-14	Macro 2	proportional
						15-20	Macro 3	proportional
						21-26	Macro 4	proportional
						27-32	Macro 5	proportional
						33-38	Macro 6	proportional
						39-44	Macro 7	proportional
						45-50	Macro 8	proportional
						51-56	Macro 9	proportional
						57-62	Macro 10	proportional
						63-68	Macro 11	proportional
						69-74	Macro 12	proportional
						75-80	Macro 13	proportional
						81-86	Macro 14	proportional
						87-92	Macro 15	proportional
						93-98	Macro 16	step
						99-104	Macro 17	step
						105-110	Macro 18	step
						111-255	Raw DMX	proportional
*	**43**	*	*	**43**	**43**		**Pattern - Shutter/ strobe**	
						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
*	**44**	*	*	**44**	**44**		**Pattern - Dimmer intensity (8 bit)**	
						0 - 255	Dimmer intensity from 0% to 100% (255=default)	proportional

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
26	**45**	**32**	**32**	**45**	**45**		**Master Shutter/ strobe**	
						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
27	**46**	**33**	**33**	**46**	**46**		**Master Dimmer intensity (8 bit)**	
						0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
*	**47**	**34**	**34**	**47**	**47**		**Master Dimmer intensity - fine (16 bit)**	
						0 - 255	Fine dimming (0=default)	proportional
*	*	**35**	**35**	**48**	**48**		**Red pixel 1**	
						0-255	Red LED saturation control 0-100% (0=default)	proportional
*	*	**36**	**36**	**49**	**49**		**Green pixel 1**	
						0-255	Green LED saturation control 0-100% (0=default)	proportional
*	*	**37**	**37**	**50**	**50**		**Blue pixel 1**	
						0-255	Blue LED saturation control 0-100% (0=default)	proportional
*	*	*	**38**	*	**51**		**White pixel 1**	
						0-255	White LED saturation control 0-100% (0=default)	proportional
							:	
*	*	**89**	**107**	**102**	**120**		**Red pixel 19**	
						0-255	Red LED saturation control 0-100% (0=default)	proportional
*	*	**90**	**108**	**103**	**121**		**Green pixel 19**	
						0-255	Green LED saturation control 0-100% (0=default)	proportional
*	*	**91**	**109**	**104**	**122**		**Blue pixel 19**	
						0-255	Blue LED saturation control 0-100% (0=default)	proportional
*	*	*	**110**	*	**123**		**White pixel 19**	
						0-255	White LED saturation control 0-100% (0=default)	proportional

* function is active only 10 seconds after switching the fixture on

** In the Tungsten effect simulation the Dimmer channel imitates behaviour of the halogen lamp during dimming

*** Select RGB or CMY mixing mode on channel "Power/Special functions"

Robin Spiider - colours on Virtual Colour Wheel				
Colour name	**Red** (DMX)	**Green** (DMX)	**Blue** (DMX)	**White** (DMX)
Filter 4 (Medium Bastard Amber)	255	118	0	109
Filter 25 (Sunset Red)	255	50	0	3
Filter 19 (Fire)	255	13	0	0
Filter 26 (Bright Red)	255	0	0	0
Filter 58 (Lavender)	117	0	97	110
Filter 68 (Sky Blue)	42	195	100	0
Filter 36 (Medium Pink)	255	74	8	24
Filter 89 (Moss Green)	69	245	0	3
Filter 88 (Lime Green)	187	226	0	0
Filter 90 (Dark Yellow Green)	0	255	1	0
Filter 49 (Medium Purple)	255	0	27	0
Filter 52 (Light Lavender)	227	86	14	134
Filter 102 (Light Amber)	233	164	0	0
Filter 103 (Straw)	207	137	0	33
Filter 140 (Summer Blue)	0	161	7	218
Filter 124 (Dark Green)	29	255	0	12
Filter 106 (Primary Red)	242	1	1	0
Filter 111 (Dark Pink)	255	67	11	49
Filter 115 (Peacock Blue)	0	255	28	41
Filter 126 (Mauve)	255	0	39	0
Filter 117 (Steel Blue)	163	255	14	161
Filter 118 (Light Blue)	0	255	61	34
Filter 122 (Fern Green)	98	255	3	2
Filter 182 (Light Red)	255	16	2	0
Filter 121 (Filter Green)	165	255	0	0
Filter 128 (Bright Pink)	255	0	13	32
Filter 131 (Marine Blue)	73	245	27	30
Filter 132 (Medium Blue)	0	193	113	0
Filter 134 (Golden Amber)	191	83	0	0
Filter 135 (Deep Golden Amber)	255	52	0	0
Filter 136 (Pale Lavender)	164	96	29	54
Filter 137 (Special Lavender)	130	60	63	102
Filter 138 (Pale Green)	226	255	0	51
Filter 798 (Chrysalis Pink)	49	0	98	14
Filter 141 (Bright Blue)	8	176	62	0
Filter 147 (Apricot)	215	104	0	15
Filter 148 (Bright Rose)	255	3	0	37
Filter 152 (Pale Gold)	202	115	0	39
Filter 154 (Pale Rose)	214	107	0	48
Filter 157 (Pink)	255	56	5	48
Filter 143 (Pale Navy Blue)	0	193	72	148
Filter 162 (Bastard Amber)	223	153	6	41
Filter 164 (Flame Red)	255	27	0	4
Filter 165 (Daylight Blue)	23	236	87	81
Filter 169 (Lilac Tint)	206	123	0	110
Filter 170 (Deep Lavender)	235	123	41	33
Filter 172 (Lagoon Blue)	0	255	54	0

Colour name	Red (DMX)	Green (DMX)	Blue (DMX)	White (DMX)
Filter 194 (Surprise Pink)	110	0	21	255
Filter 180 (Dark Lavender)	136	43	181	89
Filter 181 (Congo Blue)	37	0	255	0
Filter 197 (Alice Blue)	107	220	129	0
Filter 201 (Full C.T. Blue)	179	255	57	34
Filter 202 (Half C.T. Blue)	217	255	37	3
Filter 203 (Quarter C.T. Blue)	236	255	30	3
Filter 204 (Full C.T. Orange)	230	125	3	7
Filter 219 (Fluorescent Green)	99	148	16	50
Filter 206 (Quarter C.T. Orange)	204	140	0	57
Filter 247 (Filter Minus Green)	255	81	0	193
Filter 248 (Half Minus Green)	255	144	0	137
Filter 281 (Three Quarter C.T. Blue)	225	255	72	160
Filter 285 (Three Quarter C.T. Orange)	199	124	0	17
Filter 352 (Glacier Blue)	0	161	65	90
Filter 353 (Lighter Blue)	0	115	37	97
Filter 507 (Madge)	255	31	0	0
Filter 778 (Millennium Gold)	255	65	0	0
Filter 793 (Vanity Fair)	255	0	13	16