

DMX protocol

Robin SPIIDER - DMX protocol						
Version: 1.6 (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 230° (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	Max. speed -tracking mode (0=default)	step
					Pan/Tilt speed	
				1 - 255	Speed from max. to min. (vector mode)	proportional
					Pan/Tilt time	
				1 - 255	Time from 0.1 s to 25.5 sec.	proportional
6	6	6	6		Power/Special functions	
				0 -9	Reserved (0=default)	
					<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 53/27/31/31 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
				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
				120-129	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 - 159	Zoom reset	step

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				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 - 199	Reserved	
				200 - 209	Total fixture reset	step
				210 - 255	Reserved	
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

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				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	
					<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	
*	*	15	15		White (16 bit) - all pixels	
				0 - 255	Colour saturation control - fine (255=default)	proportional

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8	*	*	*	0 - 255	Red/Cyan (8 bit) - zone 1*** Colour saturation control - coarse 0-100% (255=default)	proportional
9	*	*	*	0 - 255	Red/Cyan (16bit)- zone 1*** Colour saturation control - fine (255=default)	proportional
10	*	*	*	0 - 255	Green/Magenta (8 bit) - zone 1*** Colour saturation control - coarse 0-100% (255=default)	proportional
11	*	*	*	0 - 255	Green/Magenta (16bit)- zone 1*** Colour saturation control - fine (255=default)	proportional
12	*	*	*	0 - 255	Blue/Yellow (8 bit) - zone 1*** Colour saturation control - coarse 0-100% (255=default)	proportional
13	*	*	*	0 - 255	Blue/Yellow (16bit)- zone 1*** Colour saturation control - fine (255=default)	proportional
14	*	*	*	0-255 0 - 255	White (8 bit) - zone 1 <i>If RGBW mode is selected:</i> Colour saturation control - coarse 0-100% (255=default) <i>If CMY mode is selected:</i> No function	proportional
15	*	*	*	0 - 255	White (16 bit) - zone 1 Colour saturation control - fine (255=default)	proportional
16	*	*	*	0 - 255	Red/Cyan (8 bit) - zone 2*** Colour saturation control - coarse 0-100% (255=default)	proportional
17	*	*	*	0 - 255	Red/Cyan (16bit)- zone 2*** Colour saturation control - fine (255=default)	proportional
18	*	*	*	0 - 255	Green/Magenta (8 bit) - zone 2*** Colour saturation control - coarse 0-100% (255=default)	proportional
19	*	*	*	0 - 255	Green/Magenta (16bit)- zone 2*** Colour saturation control - fine (255=default)	proportional
20	*	*	*	0 - 255	Blue/Yellow (8 bit) - zone 2*** Colour saturation control - coarse 0-100% (255=default)	proportional
21	*	*	*	0 - 255	Blue/Yellow (16bit)- zone 2*** Colour saturation control - fine (255=default)	proportional
22	*	*	*	0-255 0 - 255	White (8 bit) - zone 2 <i>If RGBW mode is selected:</i> Colour saturation control - coarse 0-100% (255=default) <i>If CMY mode is selected:</i> No function	proportional
23	*	*	*	0 - 255	White (16 bit) - zone 2 Colour saturation control - fine (255=default)	proportional
24	*	*	*	0 - 255	Red/Cyan (8 bit) - zone 3*** Colour saturation control - coarse 0-100% (255=default)	proportional
25	*	*	*	0 - 255	Red/Cyan (16bit)- zone 3*** Colour saturation control - fine (255=default)	proportional
26	*	*	*	0 - 255	Green/Magenta (8 bit) - zone 3*** Colour saturation control - coarse 0-100% (255=default)	proportional
27	*	*	*	0 - 255	Green/Magenta (16bit)- zone 3*** Colour saturation control - fine (255=default)	proportional
28	*	*	*	0 - 255	Blue/Yellow (8 bit) - zone 3*** Colour saturation control - coarse 0-100% (255=default)	proportional
29	*	*	*	0 - 255	Blue/Yellow (16bit)- zone 3*** Colour saturation control - fine (255=default)	proportional

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30	*	*	*		White (8 bit) - zone 3 <i>If RGBW mode is selected:</i> 0-255 Colour saturation control - coarse 0-100% (255=default) <i>If CMY mode is selected:</i> 0 - 255 No function	proportional
31	*	*	*		White (16 bit) - zone 3 0 - 255 Colour saturation control - fine (255=default)	proportional
32	12	16	16		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, 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) <i>If function "White Point 8000K" is OFF</i> 0-255 Colour temperature correction from cool col. to warm colours	proportional
33	13	17	17		Colour Mix control <i>The channel defines relation between color channels</i> <i>IF Flower effect is active, its colour channels always have priority!</i> <i>Global = Global Colours (RGBW, Virtual Colour Wheel)</i> <i>Pixel = Pixel Colours (RGB individual pixels or Kling-Net)</i> 0-9 Global colours (Global has priority) 10-19 Maximum mode (highest values have priority) 20-29 Minimum mode (lowest values have priority) 30-39 Multiply mode (multiply Global and Pixel) 40-49 Addition mode (Global + Pixel) /45=default/ 50-59 Subtraction mode (Global – Pixel) 60-69 Inverted Subtraction mode (Pixel – Global) 70-79 Coloured background 80-127 Raw DMX 128 Global colours only (Global has priority) 129-254 Crossfade (crossfade between Global and Pixel) 255 Pixel colours (Pixel has priority)	step step step step step step step step step proportional step proportional step
34	14	18	18		Pixel effects 0-2 No function (0=default) 3-4 Effect 1 5-6 Effect 2 : 181-182 Effect 90 183-255 Raw DMX	step step : step proportional
35	15	19	19		Pixel effects speed 0-127 Speed from from min. to max. (0=default) 128-255 Speed from max. to min. (opposite direction)	proportional proportional
36	16	20	20		Pixel effects fade 0 Without fade time (0=default) 1-255 Fade time from min. to max.	step proportional
37	17	21	21		Flower Effect 0 Open position-without Flower Effect (0=default)	step

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				1 - 127 128 129-255	Flower Effect forwards rotation from fast to slow Flower Effect -without rotation Backwards rotation from slow to fast	proportional step proportional
38	18	22	22	0 - 255	Flower Effect - Red (8 bit) Colour saturation control - coarse 0-100% (255=default)	proportional
39	19	23	23	0 - 255	Flower Effect - Green (8 bit) Colour saturation control - coarse 0-100% (255=default)	proportional
40	20	24	24	0 - 255	Flower effect - Blue (8 bit) Colour saturation control - coarse 0-100% (255=default)	proportional
41	21	25	25	0-255	Flower Effect - White (8 bit) Colour saturation control - coarse 0-100% (255=default)	proportional
42	22	26	26	0 1-2 3-4 5-6 : 119-120 121-255	Flower Effect - colour macros <i>(Flower Effect channel has to be set > 0 DMX)</i> Open position - without macros (0=default) <i>(Flower effect colour macros have priority to RGBW colours/Virtual colour wheel, Flower effect colours)</i> Flower Effect colour macro 1 Flower Effect colour macro 2 Flower Effect colour macro 3 : Flower Effect colour macro 60 Raw DMX	step step step step step proportional
43	23	27	27	0 - 31 32 - 63 64 - 95 96 - 127 128 - 143 144 - 159 160 - 191 192 - 223 224 - 255	Flower Effect - Shutter/ strobe Shutter closed Shutter open (32=default) Strobe-effect from slow to fast Shutter open Opening pulse in sequences from slow to fast Closing pulse in sequences from fast to slow Shutter open Random strobe-effect from slow to fast Shutter open	step step proportional step proportional proportional step proportional step
44	24	28	28	0 - 255	Flower Effect - Dimmer intensity (8 bit) Dimmer intensity from 0% to 100% (0=default)	proportional
45	25	29	29	0-255	Zoom Zoom from max. to min.beam angle (128=default)	proportional
46	*	30	30	0-255	Zoom - fine Fine zooming (0=default)	proportional
47	26	31	31	0 - 31 32 - 63 64 - 95 96 - 127 128 - 143 144 - 159 160 - 191 192 - 223 224 - 255	Shutter/ strobe Shutter closed Shutter open (32=default) Strobe-effect from slow to fast Shutter open Opening pulse in sequences from slow to fast Closing pulse in sequences from fast to slow Shutter open Random strobe-effect from slow to fast Shutter open	step step proportional step proportional proportional step proportional step
48	27	32	32	0 - 255	Dimmer intensity (8 bit) Dimmer intensity from 0% to 100% (0=default)	proportional

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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"						
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Robin SPIIDER - DMX protocol								
Version: 1.6 (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	0 - 255	Pan (8 bit) Pan movement by 540° (128=default)	proportional
2	2	2	2	2	2	0 - 255	Pan Fine (16 bit) Fine control of pan movement (0=default)	proportional
3	3	3	3	3	3	0 - 255	Tilt (8 bit) Tilt movement by 270° (128=default)	proportional
4	4	4	4	4	4	0 - 255	Tilt fine (16 bit) Fine control of tilt movement (0=default)	proportional
5	5	5	5	5	5	0	Pan/Tilt speed , Pan/Tilt time Max. speed -tracking mode (0=default)	step
						1 - 255	Pan/Tilt speed Speed from max. to min. (vector mode)	proportional
						1 - 255	Pan/Tilt time Time from 0.1 s to 25.5 sec.	proportional
6	6	6	6	6	6	0 - 9	Power/Special functions Reserved (0=default)	
							<i>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 26/44/32/32/44/44 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	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
						120-129	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

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Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						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 - 199	Reserved	
						200 - 209	Total fixture reset	step
						210 - 255	Reserved	
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
						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

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Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						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	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	
							<i>If RGBW mode is selected:</i>	

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Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						0-255	Colour saturation control - coarse 0-100% (255=default) <i>If CMY mode is selected:</i>	proportional
						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 <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, 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)	proportional
							<i>If function "White Point 8000K" is OFF</i>	
						0-255	Colour temperature correction from cool col. to warm colour	proportional
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

DMX protocol

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						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	
							<i>The channel defines relation between color channels</i>	
							<i>IF Flower effect is active, its colour channels always have priority!</i>	
							<i>Global = Global Colours (Background RGBW, Background Virtual Colour Wheel, Background CTC)</i>	
							<i>Pixel = Pixel Colours (RGB individual pixels or Kling-Net)</i>	
						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	
							<i>(Flower Effect channel has to be set > 0 DMX)</i>	
						0	Open position - without macros (0=default)	step
							<i>(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)</i>	

DMX protocol

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						1-2 3-4 5-6 : 119-120 121-255	Flower Effect colour macro 1 Flower Effect colour macro 2 Flower Effect colour macro 3 : Flower Effect colour macro 60 Raw DMX	step step step step proportional
23	28	28	28	28	28	0 - 31 32 - 63 64 - 95 96 - 127 128 - 143 144 - 159 160 - 191 192 - 223 224 - 255	Flower Effect - Shutter/ strobe Shutter closed Shutter open (32=default) Strobe-effect from slow to fast Shutter open Opening pulse in sequences from slow to fast Closing pulse in sequences from fast to slow Shutter open Random strobe-effect from slow to fast Shutter open	step step proportional step proportional proportional step proportional step
24	29	29	29	29	29	0 - 255	Flower Effect - Dimmer intensity (8 bit) 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	0-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-255	Pattern selection No pattern (0=default) Pattern 1 Pattern 2 Pattern 3 Pattern 4 Pattern 5 Pattern 6 Pattern 7 Pattern 8 Pattern 9 Pattern 10 Pattern 11 RAW DMX	step step step step step step step step step step step step proportional
*	33	*	*	33	33	0-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22	Pattern - Repeat (Size) Variant 1 (0=default) Variant 2 Variant 3 Variant 4 Variant 5 Variant 6 Variant 7 Variant 8 Variant 9 Variant 10 Variant 11	step step step step step step step step step step step

DMX protocol

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						23-255	Raw DMX	proportional
*	34	*	*	34	34	0 1-127 128-190 191-192 193-255	Pattern - Rotation No rotation (0=default) Pattern indexing Forwards rotation from fast to slow Pause - without rotation Backwards rotation from slow to fast	step proportional proportional step proportional
*	35	*	*	35	35	0 1-255	Pattern - Fade Snap (0=default) Fade from min. to max.	step proportional
*	36	*	*	36	36	0 1 : 255	Pattern - Transition No fade (0=default) 100ms : 4 sec	step step step
*	37	*	*	37	37	0 1-255	Pattern - Crossfade Background Crossfade between Background and Pattern 0-100% (255=default)	step proportional
*	38	*	*	38	38	0 - 255	Pattern - Red (8-bit) Colour saturation control - coarse 0-100% (255=default)	proportional
*	39	*	*	39	39	0 - 255	Pattern - Green (8-bit) Colour saturation control - coarse 0-100% (255=default)	proportional
*	40	*	*	40	40	0 - 255	Pattern - Blue (8-bit) Colour saturation control - coarse 0-100% (255=default)	proportional
*	41	*	*	41	41	0 - 255	Pattern - White (8-bit) Colour saturation control - coarse 0-100% (255=default)	proportional
*	42	*	*	42	42	0-2 3-8 9-14 15-20 21-26 27-32 33-38 39-44 45-50 51-56 57-62 63-68 69-74 75-80 81-86 87-92 93-98 99-104 105-110 111-255	Pattern - Colour macro No macro (0=default) <i>Macros 1-15 allow control of colour change speed from min. to max.</i> Macro 1 Macro 2 Macro 3 Macro 4 Macro 5 Macro 6 Macro 7 Macro 8 Macro 9 Macro 10 Macro 11 Macro 12 Macro 13 Macro 14 Macro 15 Macro 16 Macro 17 Macro 18 Raw DMX	step proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional proportional step step step proportional

DMX protocol

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
*	43	*	*	43	43		Pattern - Shutter/ strobe 0 - 31 Shutter closed 32 - 63 Shutter open (32=default) 64 - 95 Strobe effect from slow to fast 96 - 127 Shutter open 128 - 143 Opening pulse in sequences from slow to fast 144 - 159 Closing pulse in sequences from fast to slow 160 - 191 Shutter open 192 - 223 Random strobe effect from slow to fast 224 - 255 Shutter open	step step proportional step proportional proportional step proportional step
*	44	*	*	44	44		Pattern - Dimmer intensity (8 bit) 0 - 255 Dimmer intensity from 0% to 100% (255=default)	proportional
26	45	32	32	45	45		Master Shutter/ strobe 0 - 31 Shutter closed 32 - 63 Shutter open (32=default) 64 - 95 Strobe effect from slow to fast 96 - 127 Shutter open 128 - 143 Opening pulse in sequences from slow to fast 144 - 159 Closing pulse in sequences from fast to slow 160 - 191 Shutter open 192 - 223 Random strobe effect from slow to fast 224 - 255 Shutter open	step step proportional step proportional proportional step proportional 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"								
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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 Green)	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