

DMX protocol

Robin SPIIDER - DMX protocol						
Version: 1.9 (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)	
					<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 (unless otherwise stated)</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
				120-124	Parking position On	step
				125-129	Parking position Off	step
					<i>To activate following functions, stop in DMX value for at least 3 seconds (except function Pixel index and Pixel Mirror).</i>	
				130 - 139	Fixture reset (except pan/tilt)	

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				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 - 199	Reserved	
				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
				238 - 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

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				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

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*	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
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	
					<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	*	*	*		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	
					<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	
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***	

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				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 <i>If RGBW mode is selected:</i>	
				0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
				0 - 255	<i>If CMY mode is selected:</i> No function	
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>	proportional
				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)	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	

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				0-127	Speed 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 <i>(Flower Effect channel has to be set > 0 DMX)</i>	
				0	Open position - without macros (0=default) <i>(Flower effect colour macros have priority to RGBW colours/Virtual colour wheel, Flower effect colours)</i>	step
				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

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				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"						
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Robin SPIIDER - DMX protocol								
Version: 1.9 (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 220° (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 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	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 26/45/32/32/45/45 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden (unless otherwise stated)</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
						120-124	Parking position On	step
						125-129	Parking position Off	step
							<i>To activate following functions, stop in DMX value for at least 3 seconds (except function Pixel index and Pixel mirror).</i>	

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Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						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 - 199	Reserved	
						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
						238 - 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

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Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						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	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) ***	

DMX protocol

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						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>	
						0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
							<i>If CMY mode is selected:</i>	
						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

DMX protocol

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						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	
							<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

DMX protocol

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
21	26	26	26	26	26	0-255	Flower Effect - White (8 bit) Colour saturation control - coarse 0-100% (255=default)	proportional
22	27	27	27	27	27	0	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, channels Flower effect-Shutter/strobe and Flower effect-dimmer has to be open)</i>	step
						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	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
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		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
						25-255	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

DMX protocol

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						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	0	Pattern - Rotation 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	0	Pattern - Fade Snap (0=default)	step
						1-255	Fade from min. to max.	proportional
*	36	*	*	36	36	0	Pattern - Transition No fade (0=default)	step
						1	100ms	step
						:		
						255	4 sec	step
*	37	*	*	37	37	0	Pattern - Crossfade Background	step
						1-255	Crossfade between Background and Pattern 0-100% (255=default)	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	Pattern - Colour macro No macro (0=default) <i>Macros 1-15 allow control of colour change speed from max. to min.</i>	step
						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

DMX protocol

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						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
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	

DMX protocol

Mode/channel						DMX Value	Function	Type of control
5	6	7	8	9	10			
						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