

DMX protocol

Robin SuperSpikie - DMX protocol			
Version: 1.4			
Channel	DMX Value	Function	Type of control
1		Pan (8 bit)	
	0 - 255	Pan movement by 540°/360° (128=default)	proportional
2		Pan Fine (16 bit)	
	0 - 255	Fine control of pan movement (0=default)	proportional
3		Tilt (8 bit)	
	0 - 255	Tilt movement by 360° (128=default)	proportional
4		Tilt fine (16 bit)	
	0 - 255	Fine control of tilt movement (0=default)	proportional
5		Pan control*	
	0	Pan range 540°, shortcut Off (0=default)	step
	1	Pan range 360°, shortcut On	step
	2-127	No function (Pan range 540°, shortcut Off)	
	128-189	Continuous rotation fast -> slow , Forwards	proportional
	190-193	Stop rotation	step
	194-255	Continuous rotation slow -> fast , Backwards	proportional
6		Tilt control*	
	0	Tilt range 360°, Shortcut Off (0=default)	step
	1	Tilt range 360°, Shortcut On	step
	2-127	No function (Tilt range 360°, Shortcut Off)	
	128-189	Continuous rotation fast -> slow , Forwards	proportional
	190-193	Stop rotation	step
	194-255	Continuous rotation slow -> fast , Backwards	proportional
7		Pan/Tilt speed , Pan/Tilt time	
	0	Standard mode	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
8		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 29 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

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Channel	DMX Value	Function	Type of control
	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. Corresponding menu items are temporarily overridden.</i>	
	130 - 139	Fixture reset (except pan/tilt)	
	140 - 149	Pan/Tilt reset	step
	150 - 159	Zoom reset	step
	160 - 169	Flower effect/Prism/Frost reset	step
		<i>Tungsten effect simulation for whites 2700K and 3200K</i>	
	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 - 214	Gobo reset	step
	215-239	Reserved	
	240	Disable "Quiet mode"	step
	241 - 255	"Quiet mode" - fan noise control from min. to max.	proportional
9		Virtual colour wheel	
	0	No function (0=default)	step
	1-2	Filter 4 (Medium Bastard Amber)	step
	3-4	Filter 25 (Sunset Red)	step

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Channel	DMX Value	Function	Type of control
	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

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Channel	DMX Value	Function	Type of control
	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	Reserved	
	236-245	Rainbow effect (with fade time) from slow-> fast	proportional
	246-255	Rainbow effect (without fade time) from slow-> fast	proportional
10		Red/Cyan (8 bit)***	
	0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
11		Red/Cyan (16bit)***	
	0 - 255	Colour saturation control - fine (255=default)	proportional
12		Green/Magenta (8 bit) ***	
	0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
13		Green/Magenta (16bit) ***	
	0 - 255	Colour saturation control - fine (255=default)	proportional
14		Blue/Yellow (8 bit) ***	
	0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
15		Blue/ Yellow (16bit) ***	
	0 - 255	Colour saturation control - fine (255=default)	proportional
16		White (8 bit)	
		<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	
17		White (16 bit)	
	0 - 255	Colour saturation control - fine (255=default)	proportional
18		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)	proportional
		To get colour temperatures stated above, RGBW channels have to be set at the same value e.g. 255DMX (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 white to 2700K	proportional
19		Colour Mix control	
		<i>Defines relation between colour channels</i>	
		"Virtual" = Virtual Colours (Virtual Colour Wheel)	

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Channel	DMX Value	Function	Type of control
		"Colour mix" = Colour channels (RGBW/CMY)	
	0-9	Virtual colors ("Virtual" has priority)	step
	10-19	Maximum mode (highest values have priority)	step
	20-29	Minimum mode (lowest values have priority)	step
	30-39	Multiply mode (multiply Virtual and Colour Mix)	step
	40-49	Addition mode (Virtual + Colour mix) (45=default)	step
	50-59	Subtraction mode (Virtual – Colour mix)	step
	60-69	Inverted Subtraction mode (Colour mix-Virtual)	step
	70-128	Reserved	
	129	Virtual colors (virtual has priority)	step
	130-254	Crossfade (crossfade between Virtual and Colour mix)	proportional
	255	Colour channels ("Colour mix" has priority)	step
20		Rotating gobo selection	
		<i>Index - set indexing on channel 21</i>	
	0-4	Open/hole (0=default)	step
	5-9	Gobo 1	step
	10-14	Gobo 2	step
		<i>Rotation - set rotation on channel 21</i>	
	15-19	Gobo 1	step
	20-24	Gobo 2	step
	25 - 255	Open/hole	step
21		Rot. gobo indexing and rotation	
		<i>Gobo indexing - set position on channel 20</i>	
	0 - 255	Gobo indexing (128=default)	proportional
		<i>Gobo rotation - set position on channel 20</i>	
	0	No rotation	step
	1 - 127	Forwards gobo rotation from fast to slow	proportional
	128	No rotation (default)	step
	129 - 255	Backwards gobo rotation from slow to fast	proportional
22		Rot. gobo indexing/rotation - fine	
	0-255	Fine indexing/rotation (0=default)	proportional
23		Rotating Prism	
	0	Open position-without prism (0=default)	step
	1 - 127	Prism inserted, forwards rotation from fast to slow	proportional
	128	No rotation-prism inserted	step
	129-255	Prism inserted, backwards rotation from slow to fast	proportional
24		Flower Effect	
	0	Open position-without Flower Effect (0=default)	step
	1 - 127	Flower effect on, forwards rotation from fast to slow	proportional
	128	Flower effect on, no rotation	step
	129-255	Flower effect on, backwards rotation from slow to fast	proportional
25		Flower Effect & Rotating prism macros	
	0	Open position - without macros (0=default)	step
		<i>In range of 1-20 DMX, channels Rotating prism and Flower Effect are blocked</i>	
	1-2	Macro 1	step
	3-4	Macro 2	step
	5-6	Macro 3	step
	7-8	Macro 4	step
	9-10	Macro 5	step

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Channel	DMX Value	Function	Type of control
	11-12	Macro 6	step
	13-14	Macro 7	step
	15-16	Macro 8	step
	17-18	Macro 9	step
	19-20	Macro 10	step
	21-255	Reserved	
26		Frost	
	0-5	Open (0=default)	step
	6-11	Frost inserted	step
	12-211	Reserved	
	212 - 233	Pulse closing from slow to fast	proportional
	234 - 255	Pulse opening from fast to slow	proportional
27		Zoom	
	0-255	Zoom from max. to min.beam angle (128=default)	proportional
28		Zoom - fine	
	0-255	Fine zooming (0=default)	proportional
29		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
30		Dimmer intensity (8 bit)	
	0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
31		Dimmer intensity - fine (16 bit)	
	0 - 255	Fine dimming (0=default)	proportional
* Max. Speed of continual Tilt rotation depends on max. speed of continual Pan rotation and vice versa			
E.g. Max. Tilt speed is reduced with increasing Pan speed, and vice versa, Max. Pan speed is reduced with increasing Tilt speed			
** Function is active only 10 seconds after switching the fixture on			
***Select RGB or CMY mixing mode on the channel "Power/Special functions" .			
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Robin SuperSpikie - colours on Virtual Colour Wheel				
Colour name	Red (DMX)	Green (DMX)	Blue (DMX)	White (DMX)
Filter 4 (Medium Bastard Amber)	255	101	0	27
Filter 25 (Sunset Red)	255	42	0	0
Filter 19 (Fire)	255	26	0	0
Filter 26 (Bright Red)	255	0	0	0
Filter 58 (Lavender)	147	11	26	81
Filter 68 (Sky Blue)	49	255	43	0
Filter 36 (Medium Pink)	255	78	5	2
Filter 89 (Moss Green)	112	255	0	0
Filter 88 (Lime Green)	255	203	0	0
Filter 90 (Dark Yellow Green)	20	255	0	0
Filter 49 (Medium Purple)	255	0	11	0
Filter 52 (Light Lavender)	255	57	2	97
Filter 102 (Light Amber)	255	120	0	0
Filter 103 (Straw)	255	120	0	18
Filter 140 (Summer Blue)	1	184	0	177
Filter 124 (Dark Green)	28	197	0	2
Filter 106 (Primary Red)	255	9	0	0
Filter 111 (Dark Pink)	255	53	4	13
Filter 115 (Peacock Blue)	13	255	9	43
Filter 126 (Mauve)	255	0	13	0
Filter 117 (Steel Blue)	217	224	0	157
Filter 118 (Light Blue)	0	255	21	34
Filter 122 (Fern Green)	121	255	0	0
Filter 182 (Light Red)	255	8	0	0
Filter 121 (Filter Green)	191	235	0	0
Filter 128 (Bright Pink)	255	0	5	21
Filter 131 (Marine Blue)	83	239	10	34
Filter 132 (Medium Blue)	6	255	44	0
Filter 134 (Golden Amber)	255	78	0	0
Filter 135 (Deep Golden Amber)	255	35	0	0
Filter 136 (Pale Lavender)	168	89	7	13
Filter 137 (Special Lavender)	145	45	13	103
Filter 138 (Pale Green)	255	184	0	12
Filter 798 (Chrysalis Pink)	74	0	16	15
Filter 141 (Bright Blue)	0	222	25	0
Filter 147 (Apricot)	255	86	0	2
Filter 148 (Bright Rose)	255	3	1	17
Filter 152 (Pale Gold)	244	94	0	17
Filter 154 (Pale Rose)	241	97	0	25
Filter 157 (Pink)	255	50	3	10
Filter 143 (Pale Navy Blue)	0	255	33	150
Filter 162 (Bastard Amber)	223	99	0	19
Filter 164 (Flame Red)	255	23	0	0
Filter 165 (Daylight Blue)	35	255	32	72
Filter 169 (Lilac Tint)	255	102	0	54
Filter 170 (Deep Lavender)	255	123	11	3
Filter 172 (Lagoon Blue)	4	255	20	0

Colour name	Red (DMX)	Green (DMX)	Blue (DMX)	White (DMX)
Filter 194 (Surprise Pink)	186	0	9	182
Filter 180 (Dark Lavender)	213	72	42	41
Filter 181 (Congo Blue)	79	0	189	0
Filter 197 (Alice Blue)	157	255	54	52
Filter 201 (Full C.T. Blue)	255	230	16	81
Filter 202 (Half C.T. Blue)	237	185	9	25
Filter 203 (Quarter C.T. Blue)	255	137	0	66
Filter 204 (Full C.T. Orange)	237	104	0	5
Filter 219 (Fluorescent Green)	140	249	0	123
Filter 206 (Quarter C.T. Orange)	255	126	0	20
Filter 247 (Filter Minus Green)	255	61	0	58
Filter 248 (Half Minus Green)	255	101	0	46
Filter 281 (Three Quarter C.T. Blue)	255	194	14	79
Filter 285 (Three Quarter C.T. Orange)	255	115	0	6
Filter 352 (Glacier Blue)	0	182	22	70
Filter 353 (Lighter Blue)	0	164	11	82
Filter 507 (Madge)	255	24	0	0
Filter 778 (Millennium Gold)	255	49	0	0
Filter 793 (Vanity Fair)	255	0	6	8