Robin SuperSpikie - DMX protocol

Version: 1.2

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)	
		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 overriden.	
	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

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	
		To activate following functions, stop in DMX value for at least 3 seconds.	
	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
		Tungsten effect simulution for whites 2700K and 3200K	
	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 - 214	Gobo reset	step
	215 - 255	Reserved	
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
	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

Channel	DMX Value	Function	Type of control
	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	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

Channel	DMX Value	Function	Type of control
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)**	
		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	
17		**White (16 bit)**	
	0 - 255	Colour saturation control - fine (255=default)	proportional
18		**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 (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 white to 2700K	proportional
19		**Colour Mix control**	
		Defines relation between colour channels	
		"Virtual" = Virtual Colours (Virtual Colour Wheel)	
		"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**	
		Index - set indexing on channel 21	
	0-4	Open/hole (0=default)	step
	5-9	Gobo 1	step
	10-14	Gobo 2	step
		Rotation - set rotation on channel 21	
	15-19	Gobo 1	step
	20-24	Gobo 2	step

Channel	DMX Value	Function	Type of control
	25 - 255	Open/hole	step
21		**Rot. gobo indexing and rotation**	
		Gobo indexing - set position on channel 20	
	0 - 255	Gobo indexing (128=default)	proportional
		Gobo rotation - set position on channel 20	
	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
		In range of 1-20 DMX, channels Rotating prism and Flower Effect are blocked	
	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
	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

Channel	DMX Value	Function	Type of control
	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" .			
All Specifications subject to change without notice			