

DMX protocol

Robin BMFL FollowSpot LT - DMX protocol				
Version 1.1		Mode 1 - Standard 16 bit, Mode 2 - Reduced 8 bit		
Mode/channel		DMX Value	Function	Type of control
1	2			
1	1		Pan	
		0 - 255	Pan movement by 540° (128=default)	proportional
2	2		Pan Fine	
		0 - 255	Fine control of pan movement (0=default)	proportional
3	3		Tilt	
		0 - 255	Tilt movement by 270° (128=default)	proportional
4	4		Tilt fine	
		0 - 255	Fine control of tilt movement (0=default)	proportional
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		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 31/26 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden except DMX Input.</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	Reserved	
		35-39	Lamp power: 1500W	step
		40-44	Lamp power: 1700W	step
		45-49	Quiet mode	step
		50-54	Dimmer curve: Square law	step
		55-59	Dimmer curve: Linear	step
		60-64	Fans mode: Auto	step
		65-69	Fans mode: High	step
		70-74	Home position: On	step
		75-79	Home position: Off	step
		80-84	Minimum beam angle: Standard	step
		85-89	Minimum beam angle: Narrowed	step
		90 - 94	Pan/Tilt mode: Speed	step
		95-99	Pan/Tilt mode: Time	step
		100 - 104	Blackout while pan/tilt moving	step
		105 -109	Disabled blackout while pan/tilt moving	step
		110 -114	Blackout while colour wheels moving	step
		115 -119	Disabled blackout while colour wheels moving	step
		120-129	Reserved	
			<i>To activate following functions, stop in DMX value for at least 3 seconds.</i>	

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Mode/channel		DMX Value	Function	Type of control
1	2			
		130 - 139	Lamp On	step
		140 - 149	Pan/Tilt reset	step
		150 - 159	Colour system reset	step
		160 - 169	Reserved	step
		170 - 179	Dimmer/Shutter reset	step
		180 - 189	Zoom/focus/frost reset	step
		190 - 199	Iris reset	step
		200 - 209	Total reset	step
		210 - 229	Reserved	
		230 - 239	Lamp Off	step
			The following LightMaster /RoboSpot related commands are only applicable when LightMaster/RoboSpot are connected:	
		240 - 244	LightMaster /RoboSpot enabled	step
		245 - 249	LightMaster/RoboSpot disabled - except handle faders and pan/tilt	step
		250 - 255	LightMaster/RoboSpot fully disabled (except pan/tilt at LightMaster)	step
7	7		Colour wheel 1	
			Continual positioning	
		0	Open/white (0=default)	proportional
		18	Deep red	proportional
		37	Deep blue	proportional
		55	Orange	proportional
		73	Green	proportional
		91	Magenta	proportional
		110	Congo blue (UV)	proportional
		128-129	White	step
			Positioning	
		130-139	Deep red	step
		140-149	Deep blue	step
		150-159	Orange	step
		160-169	Green	step
		170-179	Magenta	step
		180-189	Congo blue (UV)	step
		190 - 215	Forwards rainbow effect from fast to slow	proportional
		216 - 217	No rotation	step
		218 - 243	Backwards rainbow effect from slow to fast	proportional
		244 - 249	Random colour selection by audio control	step
			(Set microphone sensitivity in menu „Personality“)	
		250 - 255	Auto random colour selection from fast to slow	proportional
8	*		Colour wheel 1 - fine positioning	
		0 - 255	Fine positioning (0=default)	proportional
9	8		Colour wheel 2	
			Continual positioning	
		0	Open/white (0=default)	proportional
		18	Pink	proportional
		37	Lavander	proportional
		55	Laser green	proportional
		73	CTB	proportional
		91	minus 1/1 green	proportional

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1	2			
		110	minus 1/2 green	proportional
		128-129	White	step
			Positioning	
		130-139	Pink	step
		140-149	Lavander	step
		150-159	Laser green	step
		160-169	CTB	step
		170-179	minus 1/1 green	step
		180-189	minus 1/2 green	step
		190 - 215	Forwards rainbow effect from fast to slow	proportional
		216 - 217	No rotation	step
		218 - 243	Backwards rainbow effect from slow to fast	proportional
		244 - 249	Random colour selection by audio control (Set microphone sensitivity in menu „Personality”)	step
		250 - 255	Auto random colour selection from fast to slow	proportional
10	*		Colour wheel 2 - fine positioning	
		0 - 255	Fine positioning (0=default)	proportional
11	9		Cyan	
		0 - 255	Cyan (0-white, 255-full cyan) /0=default/	proportional
12	10		Magenta	
		0 - 255	Magenta (0-white, 255-full magenta) /0=default/	proportional
13	11		Yellow	
		0 - 255	Yellow (0-white, 255-full yellow) /0=default/	proportional
14	12		CTO filter	
		0 - 255	(0-6000K, 255-2700K) /0=default/	proportional
15	13		CMY +CTO + CW1+CW2 macros	
			See table "Colour macros" to find components of each colour The following channels are disabled: 7-14 (Mode 1),7-12 (Mode2)	
		0 - 7	No function (0=default)	step
		8 - 9	Colour Macro 1	step
		10-11	Colour Macro 2	step
		12-13	Colour Macro 3	step
		14-15	Colour Macro 4	step
		16-17	Colour Macro 5	step
		18-19	Colour Macro 6	step
		20-21	Colour Macro 7	step
		22-23	Colour Macro 8	step
		24-25	Colour Macro 9	step
		26-27	Colour Macro 10	step
		28-29	Colour Macro 11	step
		30-31	Colour Macro 12	step
		32-33	Colour Macro 13	step
		34-35	Colour Macro 14	step
		36-37	Colour Macro 15	step
		38-39	Colour Macro 16	step
		40-41	Colour Macro 17	step
		42-43	Colour Macro 18	step
		44-45	Colour Macro 19	step

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Mode/channel		DMX Value	Function	Type of control
1	2			
		46-47	Colour Macro 20	step
		48-49	Colour Macro 21	step
		50-51	Colour Macro 22	step
		52-53	Colour Macro 23	step
		54-55	Colour Macro 24	step
		56-57	Colour Macro 25	step
		58-59	Colour Macro 26	step
		60-61	Colour Macro 27	step
		62-63	Colour Macro 28	step
		64-65	Colour Macro 29	step
		66-67	Colour Macro 30	step
		68-69	Filter 4 (Medium Bastard Amber)	step
		70-71	Filter 10 (Medium Yellow)	step
		72-73	Filter 19 (Fire)	step
		74-75	Filter 26 (Bright Red)	step
		76-77	Filter 58 (Lavender)	step
		78-79	Filter 68 (Sky Blue)	step
		80-81	Filter 71 (Tokyo Blue)	step
		82-83	Filter 79 (Just Blue)	step
		84-85	Filter 88 (Lime Green)	step
		86-87	Filter 90 (Dark Yellow Green)	step
		88-89	Filter 100 (Spring Yellow)	step
		90-91	Filter 101 (Yellow)	step
		92-93	Filter 102 (Light Amber)	step
		94-95	Filter 103 (Straw)	step
		96-97	Filter 104 (Deep Amber)	step
		98-99	Filter 105 (Orange)	step
		100-101	Filter 106 (Primary Red)	step
		102-103	Filter 111 (Dark Pink)	step
		104-105	Filter 115 (Peacock Blue)	step
		106-107	Filter 116 (Medium Blue-Green)	step
		108-109	Filter 117 (Steel Blue)	step
		110-111	Filter 118 (Light Blue)	step
		112-113	Filter 119 (Dark Blue)	step
		114-115	Filter 120 (Deep Blue)	step
		116-117	Filter 121 (Filter Green)	step
		118-119	Filter 128 (Bright Pink)	step
		120-121	Filter 131 (Marine Blue)	step
		122-123	Filter 132 (Medium Blue)	step
		124-125	Filter 134 (Golden Amber)	step
		126-127	Filter 135 (Deep Golden Amber)	step
		128-129	Filter 136 (Pale Lavender)	step
		130-131	Filter 137 (Special Lavender)	step
		132-133	Filter 138 (Pale Green)	step
		134-135	Filter 139 (Primary Green)	step
		136-137	Filter 141 (Bright Blue)	step
		138-139	Filter 147 (Apricot)	step
		140-141	Filter 148 (Bright Rose)	step

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Mode/channel		DMX Value	Function	Type of control
1	2			
		142-143	Filter 152 (Pale Gold)	step
		144-145	Filter 154 (Pale Rose)	step
		146-147	Filter 157 (Pink)	step
		148-149	Filter 158 (Deep Orange)	step
		150-151	Filter 162 (Bastard Amber)	step
		152-153	Filter 164 (Flame Red)	step
		154-155	Filter 165 (Daylight Blue)	step
		156-157	Filter 169 (Lilac Tint)	step
		158-159	Filter 170 (Deep Lavender)	step
		160-161	Filter 172 (Lagoon Blue)	step
		162-163	Filter 179 (Chrome Orange)	step
		164-165	Filter 180 (Dark Lavender)	step
		166-167	Filter 181 (Congo Blue)	step
		168-169	Filter 197 (Alice Blue)	step
		170-171	Filter 201 (Full C.T. Blue)	step
		172-173	Filter 202 (Half C.T. Blue)	step
		174-175	Filter 203 (Quarter C.T. Blue)	step
		176-177	Filter 204 (Full C.T. Orange)	step
		178-179	Filter 205 (Half C.T. Orange)	step
		180-181	Filter 206 (Quarter C.T. Orange)	step
		182-183	Filter 247 (Filter Minus Green)	step
		184-185	Filter 248 (Half Minus Green)	step
		186-187	Filter 281 (Three Quarter C.T. Blue)	step
		188-189	Filter 285 (Three Quarter C.T. Orange)	step
		190-191	Filter 352 (Glacier Blue)	step
		192-193	Filter 353 (Lighter Blue)	step
		194-195	Filter 715 (Cabana Blue)	step
		196-197	Filter 778 (Millennium Gold)	step
		198-199	Filter 793 (Vanity Fair)	step
		200-243	Reserved	
		244 - 249	Random macro selection by audio control (Set microphone sensitivity in menu "PErsonality")	step
		250 - 255	Auto random macro selection from fast to slow	proportional
16	14		Effect Speed	
		0-255	Speed of CMY+CTO movement from max. to min. (0=default)	proportional
17	15		CMY+CTO+Colour wheel time	
		0	Function is off (0=default)	step
		1 - 255	Time of CMY, CTO and Colour wheel movement (0.1sec-->25.5sec.)	proportional
18	16		Zoom+Focus+Frost+Iris time	
		0	Function is off (0=default)	step
		1 - 255	Time of zoom, focus, iris and frost movement (0.1 sec-->25.5 sec.)	proportional
19	17		Light frost	
		0-254	Frost from 0% to 100%	proportional
		255	Frost 100% , permanent focused beam edge *	step
20	18		Medium frost	
		0-254	Frost from 0% to 100%	proportional
		255	Frost 100% , permanent focused beam edge *	step

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Mode/channel		DMX Value	Function	Type of control
1	2			
21	19		Heavy frost	
		0-254	Frost from 0% to 100%	proportional
		255	Frost 100% , permanent focused beam edge*	step
			* set frost to 0 % (0 DMX), set min. zoom (255 DMX) and focus edge of free hole. Set frost at 255 DMX and the frosted edge will be the same during zooming (0-255 DMX). Focus is blocked.	
22	20		Iris	
		0	Open (0=default)	step
		1 - 179	From max.diameter to min.diameter	proportional
		180 - 191	Closed	step
			Pulse effects with Iris blackout:	
		192 - 219	Pulse opening from slow to fast	proportional
		220 - 247	Pulse closing from fast to slow	proportional
		248 - 249	Random pulse opening (fast)	step
		250 - 251	Random pulse opening (slow)	step
		252 - 253	Random pulse closing (fast)	step
254 - 255	Random pulse closing (slow)	step		
23	*		Iris - fine	
		0 - 255	Fine iris movement (0=default)	proportional
24	21		Zoom	
		0 - 255	Zoom from max. to min.beam angle (128=default)	proportional
25	*		Zoom - fine	
		0-255	Fine zooming (0=default)	proportional
26	22		Focus	
		0 - 255	Continuous adjustment from far to near (128=default)	proportional
27	*		Focus - fine	
		0- 255	Fine focusing (0=default)	proportional
28	23		Reserved	
		0- 255	Raw DMX (0=default)	proportional
29	24		Reserved	
		0- 255	Raw DMX (0=default)	proportional
30	25		Reserved	
		0 - 255	Raw DMX (0=default)	proportional
31	26		Shutter/ strobe	
		0 - 31	Shutter closed	step
		32 - 63	Shutter open (32=default)	step
		64 - 95	Strobe effect	proportional
			(64-0.4Hz, 67 - 0.5Hz, 74-1Hz, 83 - 5Hz, 91 - 10Hz, 95 - 11Hz)	
		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, Electronic strobing „ZAP“ from slow to fast	proportional
192 - 223	Random strobe-effect from slow to fast	proportional		
224 - 255	Shutter open	step		
32	27		Dimmer intensity	
		0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
33	*		Dimmer intensity - fine	

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Mode/channel		DMX Value	Function	Type of control
1	2			
		0 - 255	Fine dimming (0=default)	proportional
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Filter 106 (Primary Red)	155	0	135	0	91	255	0	255
Filter 111 (Dark Pink)	0	0	0	0	0	152	80	0
Filter 115 (Peacock Blue)	0	0	0	0	200	0	124	0
Filter 116 (Medium Blue-Green)	0	0	0	0	236	0	145	0
Filter 117 (Steel Blue)	0	0	0	0	106	7	0	0
Filter 118 (Light Blue)	0	0	0	0	196	76	0	0
Filter 119 (Dark Blue)	0	0	145	0	238	47	0	0
Filter 120 (Deep Blue)	145	0	0	0	79	1	0	0
Filter 121 (Filter Green)	0	0	0	0	182	0	225	70
Filter 128 (Bright Pink)	0	0	0	0	89	216	0	0
Filter 131 (Marine Blue)	0	0	0	0	173	0	125	0
Filter 132 (Medium Blue)	0	0	0	0	255	136	0	0
Filter 134 (Golden Amber)	0	0	0	0	0	108	176	0
Filter 135 (Deep Golden Amber)	0	0	0	0	0	193	246	0
Filter 136 (Pale Lavender)	0	0	0	0	104	105	0	0
Filter 137 (Special Lavender)	0	0	0	0	155	117	0	0
Filter 138 (Pale Green)	0	0	0	0	143	0	179	0
Filter 139 (Primary Green)	0	0	0	0	216	0	236	0
Filter 141 (Bright Blue)	0	0	0	0	217	74	0	0
Filter 147 (Apricot)	0	0	0	0	0	99	143	0
Filter 148 (Bright Rose)	0	0	0	0	0	210	110	0
Filter 152 (Pale Gold)	0	0	0	0	0	86	103	0
Filter 154 (Pale Rose)	0	0	0	0	0	93	101	0
Filter 157 (Pink)	0	0	0	0	0	159	117	0
Filter 158 (Deep Orange)	0	0	0	0	0	156	231	0
Filter 162 (Bastard Amber)	0	0	0	0	0	83	100	0
Filter 164 (Flame Red)	0	0	0	0	0	217	210	0
Filter 165 (Daylight Blue)	0	0	0	0	191	94	0	0
Filter 169 (Lilac Tint)	0	0	0	0	76	85	0	0
Filter 170 (Deep Lavender)	0	0	0	0	118	123	0	0
Filter 172 (Lagoon Blue)	0	0	0	0	191	0	80	0
Filter 179 (Chrome Orange)	0	0	0	0	0	90	251	0
Filter 180 (Dark Lavender)	0	0	0	0	206	166	0	0
Filter 181 (Congo Blue)	145	0	145	0	131	0	103	0
Filter 197 (Alice Blue)	0	0	0	0	203	137	0	0
Filter 201 (Full C.T. Blue)	0	0	0	0	123	95	0	0
Filter 202 (Half C.T. Blue)	0	0	0	0	96	75	0	0
Filter 203 (Quarter C.T. Blue)	0	0	0	0	73	59	0	0
Filter 204 (Full C.T. Orange)	0	0	0	0	0	71	142	0
Filter 205 (Half C.T. Orange)	0	0	0	0	0	49	106	0
Filter 206 (Quarter C.T. Orange)	0	0	0	0	0	12	93	0
Filter 247 (Filter Minus Green)	0	0	0	0	0	99	72	0
Filter 248 (Half Minus Green)	0	0	0	0	0	83	71	0
Filter 281 (Three Quarter C.T. Blue)	0	0	0	0	111	81	0	0
Filter 285 (Three Quarter C.T. Orange)	0	0	0	0	0	49	124	0
Filter 352 (Glacier Blue)	0	0	0	0	171	83	0	0
Filter 353 (Lighter Blue)	0	0	0	0	153	0	77	0
Filter 715 (Cabana Blue)	0	0	0	0	248	155	0	0
Filter 778 (Millennium Gold)	0	0	0	0	0	171	240	0
Filter 793 (Vanity Fair)	0	0	0	0	72	222	18	0