Robin MMX Blade - DMX protocol, version 1.1

Mode/channel 1	2	3	DMX Value	Function	Type of control
1	**1**	**1**		**Pan**	
			0 - 255	Pan movement by 540°	proportional
2	**2**	*****		**Pan Fine**	
			0 - 255	Fine control of pan movement	proportional
3	**3**	**2**		**Tilt**	
			0 - 255	Tilt movement by 270°	proportional
4	**4**	*****		**Tilt fine**	
			0 - 255	Fine control of tilt movement	proportional
5	**5**	**3**		**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
6	**6**	**4**		**Power/Special functions**	
			0 - 9	Reserved	
				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 43/38/36 must be at range: 0-31 DMX). Corresponding menu items are temporarily overriden except DMX Input.	
			10-14	DMX input: Wired DMX *	step
			15-19	DMX input: Wireless DMX *	step
				* function is active only10 seconds after switching the fixture on	
			20-29	Reserved	step
			30-34	Pan/Tilt acceleration High	step
			35-39	Pan/Tilt acceleration Compatible	step
			40-44	Dimmer-Compatible curve	step
			45-49	Dimmer-SYNC curve	step
			50 - 59	Pan/Tilt speed mode	step
			60 - 69	Pan/Tilt time mode	step
			70 - 79	Blackout while pan/tilt moving	step
			80 - 89	Disabled blackout while pan/tilt moving	step
			90 - 99	Blackout while colour wheel moving	step
			100 - 109	Disabled blackout while colour wheel moving	step
			110 - 119	Blackout while gobo wheel moving	step
			120-129	Disabled blackout while gobo wheel moving	step
				To activate following functions, stop in DMX value for at least 3 seconds.	
			130 - 139	Lamp On,reset(total reset except pan/tilt reset)	step
			140 - 149	Pan/Tilt reset	step
			150 - 159	Colour system reset	step
			160 - 169	Gobo wheels reset	step
			170 - 179	Dimmer/Shutter/Hot-spot reset	step
			180 - 189	Zoom/focus/frost/prism reset	step
			190 - 199	Iris/framing shutters/effect wheel reset	step
			200 - 209	Total reset	step
			210 - 229	Reserved	

Mode/channel			DMX	Function	Type of control
1	2	3	Value		
			230 - 239	Lamp Off	step
			240	Disabled "Silent" mode of fans	step
				To activate the "Silent mode", stop in range of 241-255 at least 3 sec.	
			241-255	Silent mode of fans: Fans noise fom min. to max	proportional
7	**7**	**5**		**Colour wheel**	
				Continual positioning	
			0	Open/white	proportional
			18	Deep red	proportional
			37	Deep blue	proportional
			55	Orange	proportional
			73	Green	proportional
			91	Amber	proportional
			110	UV filter	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	Amber	step
			180-189	UV filter	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 - fine positioning**	
			0 - 255	Fine positioning	proportional
9	**8**	**6**		**Cyan**	
			0 - 255	Cyan (0-white, 255-full cyan)	proportional
10	**9**	**7**		**Magenta**	
			0 - 255	Magenta (0-white, 255-full magenta)	proportional
11	**10**	**8**		**Yellow**	
			0 - 255	Yellow (0-white, 255-full yellow)	proportional
12	**11**	**9**		**CTO filter**	
			0 - 255	(0-6900K, 255-3200K)	proportional
13	**12**	**10**		**CMY colour macros**	
			0 - 7	No function	step
			8 - 15	Macro 1	step
			16 -23	Macro 2	step
			24-31	Macro 3	step
			32-39	Macro 4	step
			40-47	Macro 5	step
			48-55	Macro 6	step
			56-63	Macro 7	step
			64-71	Macro 8	step
			72-79	Macro 9	step
			80-87	Macro 10	step
			88-95	Macro 11	step

Mode/channel			DMX Value	Function	Type of control
1	2	3			
			96-103	Macro 12	step
			104-111	Macro 13	step
			112-119	Macro 14	step
			120-127	Macro 15	step
			128-135	Macro 16	step
			136-143	Macro 17	step
			144-151	Macro 18	step
			152-159	Macro 19	step
			160-167	Macro 20	step
			168-175	Macro 21	step
			176-183	Macro 22	step
			184-191	Macro 23	step
			192-199	Macro 24	step
			200 - 207	Macro 25	step
			208 - 215	Macro 26	step
			216 - 223	Macro 27	step
			224 - 231	Macro 28	step
			232 - 239	Macro 29	step
			240 - 243	Macro 30	proportional
			244 - 249	Random macro selection by audio control	step
				(Set microphone sensitivity in menu "PErsonality")	
			250 - 255	Auto random macro selection from fast to slow	proportional
14	**13**	**11**		**Effect Speed**	
				Speed of CMY&CTO movement and Rot. Gobo selection	
			0-255	Speed of CMY+CTO movement from max. to min.	proportional
			0-255	Speed of Rot. Gobo Selection from max. to min. (0-25.5sec.)	proportional
15	**14**	**12**		**Effect wheel positioning**	
			0-19	No function	step
			20-127	Proportional indexing (73-center)	proportional
			128-170	Ramping from open to full position (max--->min. speed)	proportional
			171-213	Ramping from open to half position (max. --->min. speed)	proportional
			214-255	Ramp. from half position to full position (max. --->min. speed)	proportional
16	**15**	**13**		**Effect wheel rotation**	
			0	No rotation	step
			1 - 127	Forwards rotation from fast to slow	proportional
			128 - 129	No rotation	step
			130 - 255	Backwards rotation from slow to fast	proportional
17	**16**	**14**		**Effect wheel animations**	
			0-7	No animation	
				Note : Set suitable DMX value at **Focus** channel to get desired animation. All animations were created at distance 7 m from screen with zoom=255DMX, Focus=15DMX	
				The channels are blocked: Effect wheel positioning, Effect wheel rotation, rotating gobo wheel, rotating gobo rotation	
			8-9	Animation Macro 1	step
			10-11	Animation Macro 2	step
			12-13	Animation Macro 3	step
			14-15	Animation Macro 4	step
			16-17	Animation Macro 5	step
			18-19	Animation Macro 6	step
			20-21	Animation Macro 7	step

Mode/channel			DMX	Function	
1	2	3	Value		Type of control
			22-23	Animation Macro 8	step
			24-25	Animation Macro 9	step
			26-27	Animation Macro 10	step
			28-255	Reserved	
18	**17**	**15**		**Rotating gobo wheel**	
				In the range of 0-59 DMX the gobo selection speed is controlled by the Effect Speed channel.	
				Index - set indexing on channel 19/18/16	
			0-3	Open/hole	step
			4-7	Gobo 1	step
			8-11	Gobo 2	step
			12-15	Gobo 3	step
			16-19	Gobo 4	step
			20-23	Gobo 5	step
			24-27	Gobo 6	step
			28-31	Gobo 7	step
				Rotation - set rotation on channel 19/18/16	
			32-35	Gobo 1	step
			36-39	Gobo 2	step
			40-43	Gobo 3	step
			44-47	Gobo 4	step
			48-51	Gobo 5	step
			52-55	Gobo 6	step
			56-59	Gobo 7	step
				Shaking gobos from slow to fast	
				Index - set indexing on channel 19/18/16	
			60 - 69	Gobo 1	proportional
			70 - 79	Gobo 2	proportional
			80 - 89	Gobo 3	proportional
			90 - 99	Gobo 4	proportional
			100 - 109	Gobo 5	proportional
			110 - 119	Gobo 6	proportional
			120 - 129	Gobo 7	proportional
				Shaking gobos from slow to fast	
				Rotation - set rotation on channel 19/18/16	
			130 - 139	Gobo 1	proportional
			140 - 149	Gobo 2	proportional
			150 - 159	Gobo 3	proportional
			160 - 169	Gobo 4	proportional
			170 - 179	Gobo 5	proportional
			180 - 189	Gobo 6	proportional
			190 - 199	Gobo 7	proportional
			200 - 201	Open/hole	step
			202 - 221	Forwards gobo wheel rotation from fast to slow	proportional
			222 - 223	No rotation	step
			224 - 243	Backwards gobo wheel rotation from slow to fast	proportional
			244 - 249	Random gobo selection by audio control	step
				(Set microphone sensitivity in menu „Personality”)	
			250 - 255	Auto random gobo selection from fast to slow	proportional
19	**18**	**16**		**Rot. Gobo indexing and rotation**	

Mode/channel			DMX	Function	Type of control
1	2	3	Value		
				Gobo indexing - set position on channel 18/17/15	
			0 - 255	Gobo indexing	proportional
				Gobo rotation - set position on channel 18/17/15	
			0	No rotation	step
			1 - 127	Forwards gobo rotation from fast to slow	proportional
			128 - 129	No rotation	step
			130 - 255	Backwards gobo rotation from slow to fast	proportional
20	*	*		**Rot. Gobo indexing/rotation - fine**	
			0-255	Fine indexing (rotation)	proportional
21	**19**	**17**		**Prism**	
			0 - 19	Open position (hole)	step
			20 - 127	5-facet rotating prism	step
			128 - 255	Prism/gobo macros	
			128 - 135	Macro 1	step
			136 - 143	Macro 2	step
			144 - 151	Macro 3	step
			152 - 159	Macro 4	step
			160 - 167	Macro 5	step
			168 - 175	Macro 6	step
			176 - 183	Macro 7	step
			184 - 191	Macro 8	step
			192 - 199	Macro 9	step
			200 - 207	Macro 10	step
			208 - 215	Macro 11	step
			216 - 223	Macro 12	step
			224 - 231	Macro 13	step
			232 - 239	Macro 14	step
			240 - 247	Macro 15	step
			248 - 255	Macro 16	step
22	**20**	**18**		**Prism rotation**	
			0	No rotation	step
			1 - 127	Forwards rotation from fast to slow	proportional
			128 - 129	No rotation	step
			130 - 255	Backwards rotation from slow to fast	proportional
23	**21**	**19**		**Frost**	
			0	Open	step
			1 - 179	Frost from 0% to 100%	proportional
			180 - 189	100% frost	step
			190 - 211	Pulse closing from slow to fast	proportional
			212 - 233	Pulse opening from fast to slow	proportional
			234 - 255	Ramping from fast to slow	proportional
24	**22**	**20**		**Iris**	
			0	Open	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

Mode/channel			DMX	Function	Type of control
1	2	3	Value		
			252 - 253	Random pulse closing (fast)	step
			254 - 255	Random pulse closing (slow)	step
25	*	*		**Iris - fine**	
			0 - 255	Fine iris movement	proportional
26	**23**	**21**		**Zoom**	
			0 - 255	Zoom from max. to min.beam angle	proportional
27	*	*		**Zoom - fine**	
			0-255	Fine zooming	proportional
28	**24**	**22**		**Focus**	
			0 - 255	Continuous adjustment from far to near	proportional
29	*	*		**Focus - fine**	
			0- 255	Fine focusing	proportional
30	**25**	**23**		**Autofocus (priority & distance selection)**	
				Select desired distance and effect on which you need to focus and use "Focus" channel (28/24/22) to focus the image.	
			0	Autofocus Off	step
				hole and framing shutters	
			1	4 metres	proportional
			8	7 metres	proportional
			16	10 metres	proportional
			24	15 metres	proportional
			32	20 metres	proportional
			40	30 metres	proportional
			48	40 metres	proportional
			56	50 metres	proportional
				Iris	
			64	4 metres	proportional
			72	7 metres	proportional
			80	10 metres	proportional
			88	15 metres	proportional
			96	20 metres	proportional
			104	30 metres	proportional
			112	40 metres	proportional
			120	50 metres	proportional
				Gobo wheel	
			128	4 metres	proportional
			136	7 metres	proportional
			144	10 metres	proportional
			152	15 metres	proportional
			160	20 metres	proportional
			168	30 metres	proportional
			176	40 metres	proportional
			184	50 metres	proportional
			192	Infinity	proportional
			193-255	Reserved	
31	**26**	**24**		**Framing shutters module rotation**	
			0-127	Rotation from right (0°) to 45°	proportional
			128	45°	step
			129-255	Rotation from 45° to left (90°)	proportional
32	**27**	**25**		**Framing shutter 1- movent**	

Mode/channel			DMX Value	Function	Type of control
1	2	3			
			0-255	Movement from Outward to Inward	proportional
33	**28**	**26**		**Framing shutter 1- swivelling**	
			0-127	Swivelling from -25 degrees towards 0 degrees	proportional
			128	0 degrees (default)	step
			129-255	Swivelling from 0 degrees to +25 degrees	proportional
34	**29**	**27**		**Framing shutter 2- movent**	
			0-255	Movement from Outward to Inward	proportional
35	**30**	**28**		**Framing shutter 2- swivelling**	
			0-127	Swivelling from -25 degrees towards 0 degrees	proportional
			128	0 degrees (default)	step
			129-255	Swivelling from 0 degrees to +25 degrees	proportional
36	**31**	**29**		**Framing shutter 3 movent**	
			0-255	Movement from Outward to Inward	proportional
37	**32**	**30**		**Framing shutter 3- swivelling**	
			0-127	Swivelling from -25 degrees towards 0 degrees	proportional
			128	0 degrees (default)	step
			129-255	Swivelling from 0 degrees to +25 degrees	proportional
38	**33**	**31**		**Framing shutter 4 movent**	
			0-255	Movement from Outward to Inward	proportional
39	**34**	**32**		**Framing shutter 4- swivelling**	
			0-127	Swivelling from -25 degrees towards 0 degrees	proportional
			128	0 degrees (default)	step
			129-255	Swivelling from 0 degrees to +25 degrees	proportional
40	**35**	**33**		**Framing shutters macros**	
			0-3	No function	
			4-7	Macro 1	step
			8-11	Macro 2	step
			12-15	Macro 3	step
			16-19	Macro 4	step
			20-23	Macro 5	step
			24-27	Macro 6	step
			28-31	Macro 7	step
			32-35	Macro 8	step
			36-39	Macro 9	step
			40-43	Macro 10	step
			44-47	Macro 11	step
			48-51	Macro 12	step
			52-55	Macro 13	step
			56-59	Macro 14	step
			60-63	Macro 15	step
			64-67	Macro 16	step
			68-71	Macro 17	step
			72-75	Macro 18	step
			76-79	Macro 19	step
			80-83	Macro 20	step
			84-87	Macro 21	step
			88-91	Macro 22	step
			92-95	Macro 23	step
			96-99	Macro 24	step
			100-103	Macro 25	step

Mode/channel			DMX	Function	Type of control
1	2	3	Value		
			104-107	Macro 26	step
			108-111	Macro 27	step
			112-115	Macro 28	step
			116-119	Macro 29	step
			120-123	Macro 30	step
			124-127	Macro 31	step
			128-131	Macro 32	step
			132-135	Macro 33	step
			136-139	Macro 34	step
			140-143	Macro 35	step
			144-147	Macro 36	step
			148-151	Macro 37	step
			152-155	Macro 38	step
			156-159	Macro 39	step
			160-163	Macro 40	step
			164-167	Macro 41	step
			168-171	Macro 42	step
			172-175	Macro 43	step
			176-179	Macro 44	step
			180-183	Macro 45	step
			184-187	Macro 46	step
			188-191	Macro 47	step
			192-195	Macro 48	step
			196-199	Macro 49	step
			200-203	Macro 50	step
			204-207	Macro 51	step
			208-211	Macro 52	step
			212-255	Reserved	
41	**36**	**34**		**Framing shutters macro speed**	
			0- 255	Speed from slow to fast.	proportional
42	**37**	**35**		**Hot-spot**	
			0-255	Beam distribution control from max. intensity to min. intensity	proportional
43	**38**	**36**		**Shutter/ strobe**	
			0 - 31	Shutter closed, Lamp power reduced to 500 W	step
			32 - 63	Shutter open, Full lamp power	step
			64 - 95	Strobe-effect from slow to fast	proportional
			96 - 127	Shutter open, Lamp power reduced to 500 W	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, Full lamp power	step
44	**39**	**37**		**Dimmer intensity**	
			0 - 255	Dimmer intensity from 0% to 100%	proportional
45	*****	*****		**Dimmer intensity - fine**	
			0 - 255	Fine dimming	proportional