Robin MMX WashBeam - DMX protocol, version 1.4

Mode/channel			DMX Value	Function	Type of control
1	2	3			
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**	
				To activate following functions, stop in DMX value for at least 3 seconds.	
			0 - 4	Flight Case Parking Position Off	step
			5 - 9	Flight Case Parking Position On	step
				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 31/27/25 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 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 wheel reset	step
			170 - 179	Dimmer/Shutter/Hot-spot reset	step
			180 - 189	Optic system reset	step
			190 - 199	Beam shaper reset	step

Mode/channel			DMX Value	Function	Type of control
1	2	3			
			200 - 209	Total reset	step
			210 - 218	Reserved	
				The following RoboSpot related commands are only applicable when the RoboSpot is connected:	
			219 - 220	RoboSpot enabled	step
			221 - 222	RoboSpot disabled - except handle faders and pan/tilt	step
			223 - 224	RoboSpot fully disabled	step
			225 - 229	Reserved	
			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	(0-7100K, 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

Mode/channel			DMX Value	Function	Type of control
1	2	3			
			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
			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**		**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 16/15/13	
			0-3	Open/hole	step
			4-7	Beam reducer	step
			8-11	Gobo 1	step
			12-15	Gobo 2	step
			16-19	Gobo 3	step
			20-23	Gobo 4	step
			24-27	Gobo 5	step
			28-31	Gobo 6	step
				Rotation - set rotation on channel 16/15/13	
			32-35	Beam reducer	step
			36-39	Gobo 1	step
			40-43	Gobo 2	step

Mode/channel			DMX Value	Function	Type of control
1	2	3			
			44-47	Gobo 3	step
			48-51	Gobo 4	step
			52-55	Gobo 5	step
			56-59	Gobo 6	step
				Shaking gobos from slow to fast	
				Index - set indexing on channel 16/15/13	
			60 - 69	Beam reducer	proportional
			70 - 79	Gobo 1	proportional
			80 - 89	Gobo 2	proportional
			90 - 99	Gobo 3	proportional
			100 - 109	Gobo 4	proportional
			110 - 119	Gobo 5	proportional
			120 - 129	Gobo 6	proportional
				Shaking gobos from slow to fast	
				Rotation - set rotation on channel 16/15/13	
			130 - 139	Beam reducer	proportional
			140 - 149	Gobo 1	proportional
			150 - 159	Gobo 2	proportional
			160 - 169	Gobo 3	proportional
			170 - 179	Gobo 4	proportional
			180 - 189	Gobo 5	proportional
			190 - 199	Gobo 6	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
16	**15**	**13**		**Rot. Gobo indexing and rotation**	
				Gobo indexing - set position on channel 15/14/12	
			0 - 255	Gobo indexing	proportional
				Gobo rotation - set position on channel 15/14/12	
			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
17	*	*		**Rot. Gobo indexing/rotation - fine**	
			0-255	Fine indexing (rotation)	proportional
18	**16**	**14**		**Light Beam type**	
				Beam Type*	
			0-29	Beam mode	step
			30-39	BeamWash mode	step
			40-49	Extended BeamWash mode	step
			50-255	Reserved	
				Wash Type*	
			0-29	Wash mode	step
			30-39	Extended Wash mode	step
			40-255	Reserved	

Mode/channel			DMX Value	Function	Type of control
1	2	3			
				** Light beam type is automatically detected according front lens installed*	
19	**17**	**15**		**Zoom**	
			0 - 255	Zoom from max. to min. beam angle	proportional
20	*	*		**Zoom - fine**	
			0-255	Fine zooming	proportional
21	**18**	**16**		**Focus (Beam mode only)**	
			0 - 255	Continuous adjustment from far to near	proportional
22	*	*		**Focus - fine (Beam mode only)**	
			0- 255	Fine focusing	proportional
23	**19**	**17**		**Autofocus -priority & distance selection (Beam mode only)**	
				Select desired distance and effect on which you need to focus and use "Focus" channel (21/18/16) to focus the image.	
			0	Autofocus Off	step
				Hole	
			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
				Rot. Gobo wheel	
			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
			121-255	Reserved	
24	**20**	**18**		**Barndoors rotation**	
			0- 255	Rotation 0°--> 180°	proportional
25	**21**	**19**		**Barndoor 1- movement**	
			0- 255	Movemement Out-->In	proportional
26	**22**	**20**		**Barndoor 2- movement**	
			0- 255	Movemement Out-->In	proportional
27	**23**	**21**		**Barndoor 3- movement**	
			0- 255	Movemement Out-->In	proportional
28	**24**	**22**		**Barndoor 4- movement**	
			0- 255	Movemement Out-->In	proportional
29	**25**	**23**		**Barndoors 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

Mode/channel			DMX Value	Function	Type of control
1	2	3			
			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
			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
			168-255	Reserved	
30	**26**	**24**		**Barndoors macro speed**	
			0- 255	Speed from slow to fast.	proportional
31	**27**	**25**		**Hot-spot**	
			0-255	Beam distribution control from max. intensity to min. intensity	proportional
32	**28**	**26**		**Shutter/ strobe**	
			0 - 31	Shutter closed, Lamp power reduced to 500W	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

Mode/channel			DMX Value	Function	Type of control
1	2	3			
			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
33	**29**	**27**		**Dimmer intensity**	
			0 - 255	Dimmer intensity from 0% to 100%	proportional
34	*	*		**Dimmer intensity - fine**	
			0 - 255	Fine dimming	proportional