

DMX protocol

Robin 300 Beam Classic - DMX protocol, version 1.0						
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 260°	proportional	
4	4	*		Tilt fine		
			0 - 255	Fine control of tilt movement	proportional	
5	5	3		Pan/Tilt speed , Pan/Tilt time		
			0	Max. speed (tracking mode)	step	
				<i>P./T. speed-set Speed Mode in menu: Pan/Tilt Mode</i>		
			1 - 255	Speed from max. to min. (vector mode)	proportional	
				<i>P./T. time - set Time Mode in menu: Pan/Tilt Mode</i>		
			1 - 255	Time from 0.1 s to 25.5 sec.	proportional	
6	6	4		Power/Special functions		
			0 - 49	Reserved		
				<i>To activate following junctions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. („Shutter,Strobe“ channel 18/14/12 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden).</i>		
			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	
				<i>To activate following functions, stop in DMX value for at least 3 seconds.</i>		
			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 reset	step	
			180 - 189	Focus/frost reset	step	
			190 - 199	Reserved		
			200 - 209	Total reset	step	
			210 - 229	Reserved		
			230 - 239	Lamp Off	step	
			240 - 255	Reserved		
7	7	5		Colour wheel		
				<i>Continual positioning</i>		
			0	Open/white	proportional	
			16	Deep red	proportional	
			32	Deep blue	proportional	
			48	Green	proportional	
			64	Amber	proportional	
			80	Magenta	proportional	

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1	2	3			
			96	Yellow	proportional
			112	UV filter	proportional
			128-129	White	step
				<i>Positioning</i>	
			130-137	Deep red	step
			138-145	Deep blue	step
			146-153	Green	step
			154-163	Amber	step
			164-171	Magenta	step
			172-181	Yellow	step
			182-189	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 (Set microphone sensitivity in menu „Personality”)	step
			250 - 255	Auto random colour selection from fast to slow	proportional
8	*	*		Colour wheel - fine positioning	
			0 - 255	Fine positioning	proportional
9	8	6		Effect Speed	
			0 - 255	Speed of Rot. Gobo Selection from max. to min. (0-25.5sec.)	proportional
10	9	7		Static gobo wheel	
				<u>Continual Positioning</u>	
				<i>In range 0-64 DMX is possible fine gobo positioning - set value on channel 11</i>	
			0	Open/hole (6.5°)	proportional
			7	Beam reducer (5.5°)	proportional
			14	Beam reducer (4.5°)	proportional
			21	Beam reducer (3°)	proportional
			28	Beam reducer (1.5°)	proportional
			35	Gobo 1	proportional
			42	Gobo 2	proportional
			49	Gobo 3	proportional
			56	Gobo 4	proportional
			64	Open/hole	proportional
				<u>Positioning</u>	
			65 - 70	Beam reducer (5.5°)	step
			71 - 75	Beam reducer (4.5°)	step
			76 - 81	Beam reducer (3°)	step
			82 - 86	Beam reducer (1.5°)	step
			87 - 92	Gobo 1	step
			93 - 97	Gobo 2	step
			98 - 103	Gobo 3	step
			104 - 109	Gobo 4	step
				<u>Shaking gobos from slow to fast</u>	
			110 - 121	Beam reducer (5.5°)	proportional
			122 - 131	Beam reducer (4.5°)	proportional
			132 - 143	Beam reducer (3°)	proportional
			144- 153	Beam reducer (1.5°)	proportional
			154 - 165	Gobo 1	proportional

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1	2	3			
			166 - 175	Gobo 2	proportional
			176 - 187	Gobo 3	proportional
			188 - 199	Gobo 4	proportional
			200 - 201	Open/hole	step
			202 - 221	Forwards gobo wheel rotation from fast to slow	proportional
			222 - 223	No rotation	
			224 - 243	Backwards gobo wheel rotation from slow to fast	proportional
			244 - 249	Random gobo selection by audio control	step
				<i>(Set microphone sensitivity in menu „Personality“)</i>	
			250 - 255	Auto random gobo selection from fast to slow	proportional
11	*	*		Static gobo wheel-fine	
			0 - 255	Fine positioning	proportional
12	10	8		Rotating gobo wheel	
				<i>In the range of 0-59 DMX the gobo selection speed is controlled by the Effect Speed channel.</i>	
				<i>Index - set indexing on channel 13/11/9</i>	
			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
				<i>Rotation - set rotation on channel 13/11/9</i>	
			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
				<i>Shaking gobos from slow to fast</i>	
				<i>Index - set indexing on channel 13/11/9</i>	
			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
				<i>Shaking gobos from slow to fast</i>	
				<i>Rotation - set rotation on channel 13/11/9</i>	
			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

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1	2	3			
			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
13	11	9		Rot. gobo indexing and rotation	
				Gobo indexing - set position on channel 12/10/8	
			0 - 255	Gobo indexing	proportional
				Gobo rotation - set position on channel 12/10/8	
			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
14	*	*		Rot. gobo indexing/rotation - fine	
			0-255	Fine indexing (rotation)	proportional
15	12	10		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
16	13	11		Focus	
			0 - 255	Continuous adjustment from far to near	proportional
17	*	*		Focus - fine	
			0- 255	Fine focusing	proportional
18	14	12		Shutter/ strobe	
			0 - 31	Shutter closed	step
			32 - 63	Shutter open	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
19	15	13		Dimmer intensity	
			0 - 255	Dimmer intensity from 0% to 100%	proportional
20	*	*		Dimmer intensity - fine	
			0 - 255	Fine dimming	proportional