

## DMX protocol

Robin 300E Spot - DMX protocol, version 1.2						
Mode/channel			DMX Value	Function	Type of control	
1	2	3				
1	1	1		<b>Pan</b>		
			0 - 255	Pan movement by 540°	proportional	
2	2	*		<b>Pan Fine</b>		
			0 - 255	Fine control of pan movement	proportional	
3	3	2		<b>Tilt</b>		
			0 - 255	Tilt movement by 280°	proportional	
4	4	*		<b>Tilt fine</b>		
			0 - 255	Fine control of tilt movement	proportional	
5	5	3		<b>Pan/Tilt speed , Pan/Tilt time</b>		
			0	Max. speed (tracking mode)	step	
				<b><i>P./T. speed-set Speed Mode in menu: Pan/Tilt Mode</i></b>		
			1 - 255	Speed from max. to min. (vector mode)	proportional	
				<b><i>P./T. time - set Time Mode in menu: Pan/Tilt Mode</i></b>		
			1 - 255	Time from 0.1 s to 25.5 sec.	proportional	
6	6	4		<b>Power/Special functions</b>		
			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 30/24/22 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/Hot-spot reset	step	
			180 - 189	Zoom/focus/frost/prism reset	step	
			190 - 199	Iris reset	step	
			200 - 209	Total reset	step	
			210 - 229	Reserved		
			230 - 239	Lamp Off	step	
			240 - 255	Reserved		
7	7	5		<b>Colour wheel</b>		
				<b><i>Continual positioning</i></b>		
			0	Open/white	proportional	
			16	Deep red	proportional	
			32	Deep blue	proportional	
			48	Orange	proportional	
			64	Green	proportional	
			80	Light red	proportional	

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1	2	3			
			96	Amber	proportional
			112	UV filter	proportional
			128-129	White	step
				<b>Positioning</b>	
			130-137	Deep red	step
			138-145	Deep blue	step
			146-153	Orange	step
			154-163	Green	step
			164-171	Light red	step
			172-181	Amber	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
<b>8</b>	<b>*</b>	<b>*</b>		<b>Colour wheel - fine positioning</b>	
			0 - 255	Fine positioning	proportional
<b>9</b>	<b>8</b>	<b>6</b>		<b>Cyan</b>	
			0 - 255	Cyan (0-white, 255-full cyan)	proportional
<b>10</b>	<b>9</b>	<b>7</b>		<b>Magenta</b>	
			0 - 255	Magenta (0-white, 255-full magenta)	proportional
<b>11</b>	<b>10</b>	<b>8</b>		<b>Yellow</b>	
			0 - 255	Yellow (0-white, 255-full yellow)	proportional
<b>12</b>	<b>11</b>	<b>9</b>		<b>CTO filter</b>	
			0 - 255	(0-8800K, 255-3200K)	proportional
<b>13</b>	<b>12</b>	<b>10</b>		<b>CMY colour macros</b>	
			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
			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

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Mode/channel			DMX Value	Function	Type of control
1	2	3			
			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 (Set microphone sensitivity in menu "Personality")	step
			250 - 255	Auto random macro selection from fast to slow	proportional
<b>14</b>	<b>13</b>	<b>11</b>		<b>Effect Speed</b>	
				<i>Speed of CMY&amp;CTO movement and Rot. Gobo selection</i>	
			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
<b>15</b>	<b>14</b>	<b>12</b>		<b>Static gobo wheel</b>	
				<u><b>Continual Positioning</b></u>	
				<i>In range 0-64 DMX is possible fine gobo positioning - set value on channel 16</i>	
			0	Open/hole	proportional
			7	Gobo 1	proportional
			13	Gobo 2	proportional
			19	Gobo 3	proportional
			26	Gobo 4	proportional
			32	Gobo 5	proportional
			39	Gobo 6	proportional
			45	Gobo 7	proportional
			51	Gobo 8	proportional
			58	Gobo 9	proportional
			64	Open/hole	proportional
				<u><b>Positioning</b></u>	
			65 - 69	Gobo 1	step
			70 - 74	Gobo 2	step
			75 - 79	Gobo 3	step
			80 - 84	Gobo 4	step
			85 - 89	Gobo 5	step
			90 - 94	Gobo 6	step
			95 - 99	Gobo 7	step
			100 - 104	Gobo 8	step
			105 - 109	Gobo 9	step
				<u><b>Shaking gobos from slow to fast</b></u>	
			110 - 119	Gobo 1	proportional
			120 - 129	Gobo 2	proportional
			130 - 139	Gobo 3	proportional
			140 - 149	Gobo 4	proportional
			150 - 159	Gobo 5	proportional
			160 - 169	Gobo 6	proportional
			170 - 179	Gobo 7	proportional
			180 - 189	Gobo 8	proportional

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Mode/channel			DMX Value	Function	Type of control
1	2	3			
			190 - 199	Gobo 9	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
<b>16</b>	<b>*</b>	<b>*</b>		<b>Static gobo wheel-fine</b>	
			0 - 255	Fine positioning	proportional
<b>17</b>	<b>15</b>	<b>13</b>		<b>Rotating gobo wheel</b>	
				<i>In the range of 0-59 DMX the gobo selection speed is controlled by the Effect Speed channel.</i>	
				<b><i>Index - set indexing on channel 18/16/14</i></b>	
			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
				<b><i>Rotation - set rotation on channel 18/16/14</i></b>	
			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
				<b><i>Shaking gobos from slow to fast</i></b>	
				<b><i>Index - set indexing on channel 18/16/14</i></b>	
			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
				<b><i>Shaking gobos from slow to fast</i></b>	
				<b><i>Rotation - set rotation on channel 18/16/14</i></b>	
			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

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1	2	3			
			222 - 223	No rotation	step
			224 - 243	Backwards gobo wheel rotation from slow to fast	proportional
			244 - 249	Random gobo selection by audio control (Set microphone sensitivity in menu „Personality“)	step
			250 - 255	Auto random gobo selection from fast to slow	proportional
<b>18</b>	<b>16</b>	<b>14</b>		<b>Rot. gobo indexing and rotation</b>	
				<b>Gobo indexing - set position on channel 17/15/13</b>	
			0 - 255	Gobo indexing	proportional
				<b>Gobo rotation - set position on channel 17/16/13</b>	
			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
<b>19</b>	<b>*</b>	<b>*</b>		<b>Rot. gobo indexing/rotation - fine</b>	
			0-255	Fine indexing (rotation)	proportional
<b>20</b>	<b>17</b>	<b>15</b>		<b>Prism</b>	
			0 - 19	Open position (hole)	step
			20 - 127	3-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
<b>21</b>	<b>18</b>	<b>16</b>		<b>Prism rotation</b>	
			0	No rotation	step
			1 - 127	Forwards rotation from slow to fast	proportional
			128 - 129	No rotation	step
			130 - 255	Backwards rotation from slow to fast	proportional
<b>22</b>	<b>19</b>	<b>17</b>		<b>Frost</b>	
			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
<b>23</b>	<b>20</b>	<b>18</b>		<b>Iris</b>	
			0	Open	step
			1 - 179	From max.diameter to min.diameter	proportional

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Mode/channel			DMX Value	Function	Type of control
1	2	3			
			180 - 191	Closed	step
				<b><i>Pulse effects with Iris blackout:</i></b>	
			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
<b>24</b>	<b>*</b>	<b>*</b>		<b>Iris - fine</b>	
			0 - 255	Fine iris movement	proportional
<b>25</b>	<b>21</b>	<b>19</b>		<b>Zoom</b>	
			0 - 255	Zoom from max. to min.beam angle	proportional
<b>26</b>	<b>*</b>	<b>*</b>		<b>Zoom - fine</b>	
			0-255	Fine zooming	proportional
<b>27</b>	<b>22</b>	<b>20</b>		<b>Focus</b>	
			0 - 255	Continuous adjustment from far to near	proportional
<b>28</b>	<b>*</b>	<b>*</b>		<b>Focus - fine</b>	
			0- 255	Fine focusing	proportional
<b>29</b>	<b>23</b>	<b>21</b>		<b>Hot-spot</b>	
			0-255	Beam distribution control from max. intensity to min. intensity	proportional
<b>30</b>	<b>24</b>	<b>22</b>		<b>Shutter/ strobe</b>	
			0 - 31	Shutter closed, Lamp power reduced to 180 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 180 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
<b>31</b>	<b>25</b>	<b>23</b>		<b>Dimmer intensity</b>	
			0 - 255	Dimmer intensity from 0% to 100%	proportional
<b>32</b>	<b>*</b>	<b>*</b>		<b>Dimmer intensity - fine</b>	
			0 - 255	Fine dimming	proportional