

DMX protocol

Robin Pointe - DMX protocol, version 1.0				
Mode/channel		DMX Value	Function	Type of control
1	2			
1	1		Pan	
		0 - 255	Pan movement by 450°	proportional
2	*		Pan Fine	
		0 - 255	Fine control of pan movement	proportional
3	2		Tilt	
		0 - 255	Tilt movement by 270°	proportional
4	*		Tilt fine	
		0 - 255	Fine control of tilt movement	proportional
5	3		Pan/Tilt speed , Pan/Tilt time	
		0	Max. speed (tracking mode)	step
			P./T. speed-set Speed Mode in menu: Pan/Tilt Mode	
		1 - 255	Speed from max. to min. (vector mode)	proportional
			P./T. time - set Time Mode in menu: Pan/Tilt Mode	
		1 - 255	Time from 0.1 s to 25.5 sec.	proportional
6	4		Power/Special functions	
		0 - 9	Reserved	
			<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 22/15 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
			<i>* Function is active only 10 seconds after switching fixture on</i>	
		20-24	Eco mode (Lamp power 230W)	step
		25-29	Standard mode (Lamp power 280W)	step
		30-49	Reserved	
		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	step
		180 - 189	Zoom/focus/prism reset	step
		190 - 199	Reserved	step
		200 - 209	Total reset	step
		210 - 229	Reserved	
		230 - 239	Lamp Off	step
		240 - 255	Reserved	

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1	2			
7	5		Colour wheel	
			<i>Continual positioning</i>	
		0	Open/white	proportional
		9	Deep Red	proportional
		18	Deep Blue	proportional
		27	Yellow	proportional
		37	Green	proportional
		46	Magenta	proportional
		55	Azure	proportional
		64	Red	proportional
		73	Dark green	proportional
		82	Amber	proportional
		91	Blue	proportional
		101	Orange	proportional
		110	CTO	proportional
		119	UV filter	proportional
		128-129	White	step
			<i>Positioning</i>	
		130-134	Deep Red	step
		135-138	Deep Blue	step
		139-143	Yellow	step
		144-147	Green	step
		148-152	Magenta	step
		153-157	Azure	step
		158-161	Red	step
		162-166	Dark green	step
		167-171	Amber	step
		172-176	Blue	step
		177-180	Orange	step
		181-185	CTO	step
		186-189	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	6		Effect Speed	
		0 - 255	Speed of Rot. Gobo selection from max. to min. (0-25.5sec.)	proportional
10	7		Static gobo wheel	
		0-3	Open/hole	step
			<i>Positioning</i>	
		4-9	Gobo 1	step
		10-15	Gobo 2	step
		16-21	Gobo 3	step
		22-27	Gobo 4	step
		28-33	Gobo 5	step
		34-39	Gobo 6	step

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1	2			
		40-45	Gobo 7	step
		46-51	Gobo 8	step
		52-57	Gobo 9	step
		58-63	Gobo 10	step
		64-69	Beam reducer 1	step
		70-75	Beam reducer 2	step
		76-81	Beam reducer 3	step
		82-87	Beam reducer 4	step
			<u>Shaking gobos from slow to fast</u>	
		88-95	Gobo 1	proportional
		96-103	Gobo 2	proportional
		104-111	Gobo 3	proportional
		112-119	Gobo 4	proportional
		120-127	Gobo 5	proportional
		128-135	Gobo 6	proportional
		136-143	Gobo 7	proportional
		144-151	Gobo 8	proportional
		152-159	Gobo 9	proportional
		160-167	Gobo 10	proportional
		168-175	Beam reducer 1	proportional
		176-183	Beam reducer 2	proportional
		184-191	Beam reducer 3	proportional
		192-199	Beam reducer 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	8		Rotating gobo wheel	
			<i>In the range of 0-59 DMX the gobo selection speed is controlled by the Effect Speed channel.</i>	
			<u>Index - set indexing on channel 12/9</u>	
		0-4	Open/hole	step
		5-7	Gobo 1	step
		8-10	Gobo 2	step
		11-13	Gobo 3	step
		14-16	Gobo 4	step
		17-19	Gobo 5	step
		20-22	Gobo 6	step
		23-25	Gobo 7	step
		26-28	Gobo 8	step
		29-31	Gobo 9	step
			<u>Rotation - set rotation on channel 12/9</u>	
		32-34	Gobo 1	step
		35-37	Gobo 2	step
		38-40	Gobo 3	step
		41-43	Gobo 4	step
		44-46	Gobo 5	step

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1	2			
		47-49	Gobo 6	step
		50-52	Gobo 7	step
		53-55	Gobo 8	step
		56-59	Gobo 9	step
			<u>Shaking gobos from slow to fast</u>	
			<u>Index - set indexing on channel 12/9</u>	
		60-67	Gobo 1	proportional
		68-75	Gobo 2	proportional
		76-83	Gobo 3	proportional
		84-91	Gobo 4	proportional
		92-99	Gobo 5	proportional
		100-107	Gobo 6	proportional
		108-115	Gobo 7	proportional
		116-123	Gobo 8	proportional
		124-129	Gobo 9	proportional
			<u>Shaking gobos from slow to fast</u>	
			<u>Rotation - set rotation on channel 12/9</u>	
		130-137	Gobo 1	proportional
		138-145	Gobo 2	proportional
		146-153	Gobo 3	proportional
		154-161	Gobo 4	proportional
		162-169	Gobo 5	proportional
		170-177	Gobo 6	proportional
		178-185	Gobo 7	proportional
		186-193	Gobo 8	proportional
		194-199	Gobo 9	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
12	9		Rot. gobo indexing and rotation	
			<u>Gobo indexing - set position on channel 11/8</u>	
		0 - 255	Gobo indexing	proportional
			<u>Gobo rotation - set position on channel 11/8</u>	
		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
13	*		Rot. gobo indexing and rotation - fine	
		0-255	Fine indexing (rotation)	proportional
14	10		Prism	
		0 - 19	Open position (hole)	step
		20 -49	6-facet linear rotating prism -indexing	step
		50 - 75	6-facet linear rotating prism- rotation	step
		76 - 105	8-facet circular rotating prism- Indexing	step
		106-127	8-facet circular rotating prism-rotation	step
			Prism/gobo macros	

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1	2			
		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
15	11		Prism rotation and indexing	
			<i>Prism indexing - set position on channel 14/10</i>	
		0 - 255	Prism indexing	proportional
			<i>Prism rotation - set position on channel 14/10</i>	
		0	No rotation	step
		1 - 127	Forwards prism rotation from fast to slow	proportional
		128 - 129	No rotation	step
		130 - 255	Backwards prism rotation from slow to fast	proportional
16	12		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
17	13		Zoom	
		0 - 255	Zoom from max. to min.beam angle	proportional
18	*		Zoom - fine	
		0-255	Fine zooming	proportional
19	14		Focus	
		0 - 255	Continuous adjustment from far to near	proportional
20	*		Focus - fine	
		0- 255	Fine focusing	proportional
21	*		Autofocus (priority & distance selection)	
		0-255	Autofocus	proportional
22	15		Shutter/ strobe	
		0 - 31	Shutter closed (Lamp power reduced to 230 W)	step
		32 - 63	Shutter open, Full lamp power	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

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Mode/channel		DMX Value	Function	Type of control
1	2			
		224 - 255	Shutter open, Full lamp power	step
23	16		Dimmer intensity	
		0 - 255	Dimmer intensity from 0% to 100%	proportional
24	*		Dimmer intensity - fine	
		0 - 255	Fine dimming	proportional