

## DMX protocol

Robin BMFL Spot - DMX protocol				
version 1.5		Mode 1 - Standard 16 bit, Mode 2 - Reduced 8 bit		
Mode/channel		DMX Value	Function	Type of control
1	2			
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		<b>Tilt</b>	
		0 - 255	Tilt movement by 270°	proportional
4	4		<b>Tilt fine</b>	
		0 - 255	Fine control of tilt movement	proportional
5	5		<b>Pan/Tilt speed , Pan/Tilt time</b>	
		0	Standard mode	step
		1	Max. Speed Mode	step
			<b>Pan/Tilt speed mode</b>	
		2 - 255	Speed from max. to min.	proportional
			<b>Pan/Tilt time mode</b>	
		2 - 255	Time from 0.2 s to 25.5 sec.	proportional
6	6		<b>Power/Special functions</b>	
		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 39/32 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
			* function is active only 10 seconds after switching the fixture on	
		20-24	Graphic display On	step
		25-29	Graphic display Off	step
		30-34	Reserved	
		35-39	Lamp power 1500W	step
		40-44	Lamp power 1700W	step
		45-49	Quiet mode	step
		50-54	Dimmer curve: Square law	step
		55-59	Dimmer curve: Linear	step
		60-64	Fans mode: Auto	step
		65-69	Fans mode: High	step
		70-74	Home position on	step
		75-79	Home position off	step
		80-89	Reserved	
		90 - 94	Pan/Tilt speed mode	step
		95-99	Pan/Tilt time mode	step
		100 - 104	Blackout while pan/tilt moving	step
		105 -109	Disabled blackout while pan/tilt moving	step
		110-114	Blackout while colour wheels moving	step
		115 -119	Disabled blackout while colour wheels moving	step
		120-129	Reserved	step
			<i>To activate following functions, stop in DMX value for at least 3 seconds.</i>	
		130 - 139	Lamp On	step

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Mode/channel		DMX Value	Function	Type of control
1	2			
		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	Zoom/focus/frost/prism reset	step
		190 - 199	Iris/dual graphic wheel reset	step
		200 - 209	Total reset	step
		210 - 229	Reserved	
		230 - 239	Lamp Off	step
			The following LightMaster (LM)/RoboSpot (RS) related commands are only applicable when LightMaster/RoboSpot are connected:	
		240 - 244	LightMaster /RoboSpot enabled	step
		245 - 249	LightMaster/RoboSpot disabled - except handle faders (LM, RS), pan/tilt (LM)	step
		250 - 255	LightMaster/RoboSpot fully disabled (except pan/tilt at LightMaster)	step
<b>7</b>	<b>7</b>		<b>Colour wheel 1</b>	
			<b><i>Continual positioning</i></b>	
		0	Open/white	proportional
		18	Deep red	proportional
		37	Deep blue	proportional
		55	Orange	proportional
		73	Green	proportional
		91	Magenta	proportional
		110	Congo blue (UV)	proportional
		128-129	White	step
			<b><i>Positioning</i></b>	
		130-139	Deep red	step
		140-149	Deep blue	step
		150-159	Orange	step
		160-169	Green	step
		170-179	Magenta	step
		180-189	Congo blue (UV)	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>Colour wheel 1 - fine positioning</b>	
		0 - 255	Fine positioning	proportional
<b>9</b>	<b>8</b>		<b>Colour wheel 2</b>	
			<b><i>Continual positioning</i></b>	
		0	Open/white	proportional
		18	Pink	proportional
		37	Lavander	proportional
		55	Laser green	proportional
		73	CTB	proportional
		91	minus 1/1 green	proportional
		110	minus 1/2 green	proportional

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Mode/channel		DMX Value	Function	Type of control
1	2			
		128-129	White <b>Positioning</b>	step
		130-139	Pink	step
		140-149	Lavander	step
		150-159	Laser green	step
		160-169	CTB	step
		170-179	minus 1/1 green	step
		180-189	minus 1/2 green	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>10</b>	<b>*</b>		<b>Colour wheel 2 - fine positioning</b>	
		0 - 255	Fine positioning	proportional
<b>11</b>	<b>9</b>		<b>Cyan</b>	
		0 - 255	Cyan (0-white, 255-full cyan)	proportional
<b>12</b>	<b>10</b>		<b>Magenta</b>	
		0 - 255	Magenta (0-white, 255-full magenta)	proportional
<b>13</b>	<b>11</b>		<b>Yellow</b>	
		0 - 255	Yellow (0-white, 255-full yellow)	proportional
<b>14</b>	<b>12</b>		<b>CTO filter</b>	
		0 - 255	(0-6700K, 255-2700K)	proportional
<b>15</b>	<b>13</b>		<b>CMY +CTO + CW1+CW2 macros</b>	
			See table "Colour macros" to find components of each colour The following channels are disabled: 7-14 (Mode 1),7-12 (Mode2)	
		0 - 7	No function	step
		8 - 9	Colour Macro 1	step
		10-11	Colour Macro 2	step
		12-13	Colour Macro 3	step
		14-15	Colour Macro 4	step
		16-17	Colour Macro 5	step
		18-19	Colour Macro 6	step
		20-21	Colour Macro 7	step
		22-23	Colour Macro 8	step
		24-25	Colour Macro 9	step
		26-27	Colour Macro 10	step
		28-29	Colour Macro 11	step
		30-31	Colour Macro 12	step
		32-33	Colour Macro 13	step
		34-35	Colour Macro 14	step
		36-37	Colour Macro 15	step
		38-39	Colour Macro 16	step
		40-41	Colour Macro 17	step
		42-43	Colour Macro 18	step
		44-45	Colour Macro 19	step
		46-47	Colour Macro 20	step

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Mode/channel		DMX Value	Function	Type of control
1	2			
		48-49	Colour Macro 21	step
		50-51	Colour Macro 22	step
		52-53	Colour Macro 23	step
		54-55	Colour Macro 24	step
		56-57	Colour Macro 25	step
		58-59	Colour Macro 26	step
		60-61	Colour Macro 27	step
		62-63	Colour Macro 28	step
		64-65	Colour Macro 29	step
		66-67	Colour Macro 30	step
		68-69	Filter 4 (Medium Bastard Amber)	step
		70-71	Filter 10 (Medium Yellow)	step
		72-73	Filter 19 (Fire)	step
		74-75	Filter 26 (Bright Red)	step
		76-77	Filter 58 (Lavender)	step
		78-79	Filter 68 (Sky Blue)	step
		80-81	Filter 71 (Tokyo Blue)	step
		82-83	Filter 79 (Just Blue)	step
		84-85	Filter 88 (Lime Green)	step
		86-87	Filter 90 (Dark Yellow Green)	step
		88-89	Filter 100 (Spring Yellow)	step
		90-91	Filter 101 (Yellow)	step
		92-93	Filter 102 (Light Amber)	step
		94-95	Filter 103 (Straw)	step
		96-97	Filter 104 (Deep Amber)	step
		98-99	Filter 105 (Orange)	step
		100-101	Filter 106 (Primary Red)	step
		102-103	Filter 111 (Dark Pink)	step
		104-105	Filter 115 (Peacock Blue)	step
		106-107	Filter 116 (Medium Blue-Green)	step
		108-109	Filter 117 (Steel Blue)	step
		110-111	Filter 118 (Light Blue)	step
		112-113	Filter 119 (Dark Blue)	step
		114-115	Filter 120 (Deep Blue)	step
		116-117	Filter 121 (Filter Green)	step
		118-119	Filter 128 (Bright Pink)	step
		120-121	Filter 131 (Marine Blue)	step
		122-123	Filter 132 (Medium Blue)	step
		124-125	Filter 134 (Golden Amber)	step
		126-127	Filter 135 (Deep Golden Amber)	step
		128-129	Filter 136 (Pale Lavender)	step
		130-131	Filter 137 (Special Lavender)	step
		132-133	Filter 138 (Pale Green)	step
		134-135	Filter 139 (Primary Green)	step
		136-137	Filter 141 (Bright Blue)	step
		138-139	Filter 147 (Apricot)	step
		140-141	Filter 148 (Bright Rose)	step
		142-143	Filter 152 (Pale Gold)	step

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Mode/channel		DMX Value	Function	Type of control
1	2			
		144-145	Filter 154 (Pale Rose)	step
		146-147	Filter 157 (Pink)	step
		148-149	Filter 158 (Deep Orange)	step
		150-151	Filter 162 (Bastard Amber)	step
		152-153	Filter 164 (Flame Red)	step
		154-155	Filter 165 (Daylight Blue)	step
		156-157	Filter 169 (Lilac Tint)	step
		158-159	Filter 170 (Deep Lavender)	step
		160-161	Filter 172 (Lagoon Blue)	step
		162-163	Filter 179 (Chrome Orange)	step
		164-165	Filter 180 (Dark Lavender)	step
		166-167	Filter 181 (Congo Blue)	step
		168-169	Filter 197 (Alice Blue)	step
		170-171	Filter 201 (Full C.T. Blue)	step
		172-173	Filter 202 (Half C.T. Blue)	step
		174-175	Filter 203 (Quarter C.T. Blue)	step
		176-177	Filter 204 (Full C.T. Orange)	step
		178-179	Filter 205 (Half C.T. Orange)	step
		180-181	Filter 206 (Quarter C.T. Orange)	step
		182-183	Filter 247 (Filter Minus Green)	step
		184-185	Filter 248 (Half Minus Green)	step
		186-187	Filter 281 (Three Quarter C.T. Blue)	step
		188-189	Filter 285 (Three Quarter C.T. Orange)	step
		190-191	Filter 352 (Glacier Blue)	step
		192-193	Filter 353 (Lighter Blue)	step
		194-195	Filter 715 (Cabana Blue)	step
		196-197	Filter 778 (Millennium Gold)	step
		198-199	Filter 793 (Vanity Fair)	step
		200-243	Reserved	
		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>16</b>	<b>14</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.	proportional
<b>17</b>	<b>15</b>		<b>CMY+CTO+Colour wheel time</b>	
		0	Function is off	step
		1 - 255	Time of CMY, CTO and Colour wheel movement (0.1sec-->25.5sec.)	proportional
<b>18</b>	<b>16</b>		<b>Zoom+Focus+Iris+Frost+Prism time</b>	
		0	Function is off	step
		1 - 255	Time of zoom, focus, iris and frost movement (0.1 sec-->25.5 sec.)	proportional
		1-50	Time of prism movement (0.1 sec-->5 sec.)	proportional
<b>19</b>	<b>17</b>		<b>Dual graphic wheel positioning</b>	
		0-19	No function	step
		20-127	Proportional indexing (73-center)	proportional
		128-170	Ramping from open to full position ( max--->min. speed)	proportional

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Mode/channel		DMX Value	Function	Type of control
1	2			
		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
<b>20</b>	<b>18</b>		<b>Dual graphic wheel-Graphic wheel 1 rotation</b>	
		0	No rotation	step
		1 - 127	Forwards rotation from fast to slow	proportional
		128	No rotation - <u>default</u>	step
		129 - 255	Backwards rotation from slow to fast	proportional
<b>21</b>	<b>19</b>		<b>Dual graphic wheel-Graphic wheel 2 rotation</b>	
		0	No rotation	step
		1 - 127	Forwards rotation from fast to slow	proportional
		128	No rotation - <u>default</u>	step
		129 - 255	Backwards rotation from slow to fast	proportional
<b>22</b>	<b>20</b>		<b>Dual graphic wheel animations</b>	
		0-7	No animation	step
			<b><u>Colour animations</u></b>	
			<b><i>(Distance from projection screen: 5m, zoom=155 DMX)</i></b>	
			<b>Note :</b> The channels are disabled: Colour wheel 1 and 2, Cyan, Magenta, Yellow, Rotating gobo wheel 1 and 2, Prism rotation, Dual graphic wheel, Graphic wheel 1,2	
			<b>Use Rot. Gobo 1 (2) indexing and rotation channel to index the animation</b>	
		8-9	Animation 1 (Focus=162)	step
		10-11	Animation 2 (Focus=211)	step
		12-13	Animation 3 (Focus=252)	step
		14-15	Animation 4 (Focus=138)	step
		16-17	Animation 5 (Focus=138)	step
		18-19	Animation 6 (Focus=210)	step
		20-21	Animation 7 (Focus=203)	step
		22-23	Animation 8 (Focus=171)	step
			<b>Note :</b> The channels are disabled: Colour wheel 1 and 2, Cyan, Magenta, Yellow, Rotating gobo wheel 1 and 2, Rot. Gobo 1 and 2 indexing, Prism, Prism rotation, Dual graphic wheel, Graphic wheel 1,2	
		24-25	Animation 9 (Focus=148)	step
		26-27	Animation 10 (Focus=151)	step
		28-29	Animation 11 (Focus=193)	step
		30-31	Animation 12 (Focus=141)	step
		32-33	Animation 13 (Focus=138)	step
		34-35	Animation 14 (Focus=143)	step
		36-37	Animation 15 (Focus=135)	step
		38-39	Animation 16 (Focus=153)	step
		40-41	Animation 17 (Focus=153)	step
		42-43	Animation 18 (Focus=153)	step
		44-45	Animation 19 (Focus=185)	step
		46-47	Animation 20 (Focus=185)	step
		48-49	Animation 21 (Focus=178)	step
		50-51	Animation 22 (Focus=167)	step
		52-53	Animation 23 (Focus=168)	step
		54-55	Animation 24 (Focus=168)	step

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Mode/channel		DMX Value	Function	Type of control
1	2			
		56-57	Animation 25 (Focus=133)	step
		58-59	Animation 26 (Focus=168)	step
		60-61	Animation 27 (Focus=232)	step
		62-63	Animation 28 (Focus=155)	step
		64-65	Animation 29 (Focus=176)	step
		66-67	Animation 30 (Focus=221)	step
			<b><u>Black and white animations</u></b>	
			Note : The channels are blocked: Rotating gobo wheel 1 and 2, Prism, Prism rotation, Dual graphic wheel, Graphic wheel 1,2 <i>Use Rot. Gobo 1 (2) indexing and rotation channel to index the animation</i>	
		68-69	Animation 1 (Focus=162)	step
		70-71	Animation 2 (Focus=211)	step
		72-73	Animation 3 (Focus=252)	step
		74-75	Animation 4 (Focus=138)	step
		76-77	Animation 5 (Focus=138)	step
		78-79	Animation 6 (Focus=210)	step
		80-81	Animation 7 (Focus=203)	step
		82-83	Animation 8 (Focus=171)	step
			<b>Note</b> : The following channels are blocked: Rotating gobo wheel 1 and 2, Rot. Gobo 1 and 2 indexing, Prism, Prism rotation, Dual graphic wheel, Graphic wheel 1,2	
		84-85	Animation 9 (Focus=148)	step
		86-87	Animation 10 (Focus=151)	step
		88-89	Animation 11 (Focus=193)	step
		90-91	Animation 12 (Focus=141)	step
		92-93	Animation 13 (Focus=138)	step
		94-95	Animation 14 (Focus=143)	step
		96-97	Animation 15 (Focus=135)	step
		98-99	Animation 16 (Focus=153)	step
		100-101	Animation 17 (Focus=153)	step
		102-103	Animation 18 (Focus=153)	step
		104-105	Animation 19 (Focus=185)	step
		106-107	Animation 20 (Focus=185)	step
		108-109	Animation 21 (Focus=178)	step
		110-111	Animation 22 (Focus=167)	step
		112-113	Animation 23 (Focus=168)	step
		114-115	Animation 24 (Focus=168)	step
		116-117	Animation 25 (Focus=133)	step
		118-119	Animation 26 (Focus=168)	step
		120-121	Animation 27 (Focus=232)	step
		122-123	Animation 28 (Focus=155)	step
		124-125	Animation 29 (Focus=176)	step
		126-127	Animation 30 (Focus=221)	step
		128-255	Reserved	
<b>23</b>	<b>21</b>		<b>Rotating gobo wheel 1</b> <i>In the range of 0-59 DMX the gobo selection speed is controlled by the Effect Speed channel.</i>	

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Mode/channel		DMX Value	Function	Type of control
1	2			
			<b><i>Index - set indexing on channel 24/22</i></b>	
		0-4	Open/hole	step
		5-8	Gobo 1	step
		9-13	Gobo 2	step
		14-17	Gobo 3	step
		18-22	Gobo 4	step
		23-26	Gobo 5	step
		27-31	Gobo 6	step
			<b><i>Rotation - set rotation on channel 24/22</i></b>	
		32-35	Gobo 1	step
		36-40	Gobo 2	step
		41-44	Gobo 3	step
		45-49	Gobo 4	step
		50-54	Gobo 5	step
		55-59	Gobo 6	step
			<b><i>Shaking gobos from slow to fast</i></b>	
			<b><i>Index - set indexing on channel 24/22</i></b>	
		60-71	Gobo 1	proportional
		72-83	Gobo 2	proportional
		84-95	Gobo 3	proportional
		96-106	Gobo 4	proportional
		107-118	Gobo 5	proportional
		119-129	Gobo 6	proportional
			<b><i>Shaking gobos from slow to fast</i></b>	
			<b><i>Rotation - set rotation on channel 24/22</i></b>	
		130-141	Gobo 1	proportional
		142-153	Gobo 2	proportional
		154-165	Gobo 3	proportional
		166-176	Gobo 4	proportional
		177-188	Gobo 5	proportional
		189-199	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 (Set microphone sensitivity in menu „Personality“)	step
		250 - 255	Auto random gobo selection from fast to slow	proportional
<b>24</b>	<b>22</b>		<b>Rot. Gobo 1 indexing/rotation</b>	
			<b><i>Gobo indexing - set position on channel 23/21</i></b>	
		0 - 255	Gobo indexing	proportional
			<b><i>Gobo rotation - set position on channel 23/21</i></b>	
		0	No rotation	step
		1 - 127	Forwards gobo rotation from fast to slow	proportional
		128	No rotation - <u>default</u>	step
		129 - 255	Backwards gobo rotation from slow to fast	proportional
<b>25</b>	<b>*</b>		<b>Rot. Gobo 1 indexing/rotation - fine</b>	
		0-255	Fine indexing (rotation)	proportional



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Mode/channel		DMX Value	Function	Type of control	
1	2				
26	23		<b>Rotating gobo wheel 2</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 27/24</i></b>		
			0-4	Open/hole	step
			5-8	Gobo 1	step
			9-13	Gobo 2	step
			14-17	Gobo 3	step
			18-22	Gobo 4	step
			23-26	Gobo 5	step
			27-31	Gobo 6	step
				<b><i>Rotation - set rotation on channel 27/24</i></b>	
			32-35	Gobo 1	step
			36-40	Gobo 2	step
			41-44	Gobo 3	step
			45-49	Gobo 4	step
			50-54	Gobo 5	step
			55-59	Gobo 6	step
				<b><i>Shaking gobos from slow to fast</i></b>	
				<b><i>Index - set indexing on channel 27/24</i></b>	
			60-71	Gobo 1	proportional
			72-83	Gobo 2	proportional
			84-95	Gobo 3	proportional
			96-106	Gobo 4	proportional
			107-118	Gobo 5	proportional
			119-129	Gobo 6	proportional
				<b><i>Shaking gobos from slow to fast</i></b>	
				<b><i>Rotation - set rotation on channel 27/24</i></b>	
			130-141	Gobo 1	proportional
			142-153	Gobo 2	proportional
			154-165	Gobo 3	proportional
			166-176	Gobo 4	proportional
			177-188	Gobo 5	proportional
	189-199	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		
27	24		<b>Rot. Gobo 2 indexing/rotation</b>		
			<b><i>Gobo indexing - set position on channel 26/23</i></b>		
		0 - 255	Gobo indexing	proportional	
			<b><i>Gobo rotation - set position on channel 26/23</i></b>		
		0	No rotation	step	
	1 - 127	Forwards gobo rotation from fast to slow	proportional		
	128	No rotation - <u>default</u>	step		

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Mode/channel		DMX Value	Function	Type of control
1	2			
		129 - 255	Backwards gobo rotation from slow to fast	proportional
<b>28</b>	<b>*</b>		<b>Rot. Gobo 2 indexing/rotation - fine</b>	
		0-255	Fine indexing (rotation)	proportional
<b>29</b>	<b>25</b>		<b>Prism</b>	
		0 - 19	Open position (hole)	step
		20 -49	6-facet linear prism -indexing	step
		50 - 75	6-facet linear prism - rotation	step
		76 - 105	6-facet circular prism- Indexing	step
		106-127	6-facet circular prism-rotation	step
			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>30</b>	<b>26</b>		<b>Prism rotation</b>	
		0	No rotation	step
		1 - 127	Forwards rotation from fast to slow	proportional
		128	No rotation - <u>default</u>	step
		129-255	Backwards rotation from slow to fast	proportional
<b>31</b>	<b>27</b>		<b>Frost</b>	
		0	Open- <u>default</u>	step
			<b>Light</b>	
		1-50	Frost from 0% to 100%	proportional
		51-53	100% frost	step
		54-63	Pulse closing from slow to fast	proportional
		64-73	Pulse opening from fast to slow	proportional
		74-83	Ramping from fast to slow	proportional
		84-86	Open	step
			<b>Medium</b>	
		87-136	Frost from 0% to 100%	proportional
		137-139	100% frost	step
		140-149	Pulse closing from slow to fast	proportional
		150-159	Pulse opening from fast to slow	proportional
		160-169	Ramping from fast to slow	proportional
		170-172	Open	step
			<b>Heavy</b>	

DMX protocol

Mode/channel		DMX Value	Function	Type of control
1	2			
		173-222	Frost from 0% to 100%	proportional
		223-225	100% frost	step
		226-235	Pulse closing from slow to fast	proportional
		236-245	Pulse opening from fast to slow	proportional
		246-255	Ramping from fast to slow	proportional
<b>32</b>	<b>28</b>		<b>Iris</b>	
		0	Open	step
		1 - 179	From max.diameter to min.diameter	proportional
		180 - 191	Closed	step
			<b>Pulse effects with Iris blackout:</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>33</b>	<b>*</b>		<b>Iris - fine</b>	
		0 - 255	Fine iris movement	proportional
<b>34</b>	<b>29</b>		<b>Zoom</b>	
		0 - 255	Zoom from max. to min.beam angle	proportional
<b>35</b>	<b>*</b>		<b>Zoom - fine</b>	
		0-255	Fine zooming	proportional
<b>36</b>	<b>30</b>		<b>Focus</b>	
		0 - 255	Continuous adjustment from far to near	proportional
<b>37</b>	<b>*</b>		<b>Focus - fine</b>	
		0- 255	Fine focusing	proportional
<b>38</b>	<b>31</b>		<b>Autofocus</b>	
		0	Autofocus Off	step
		1-255	Autofocus On	proportional
<b>39</b>	<b>32</b>		<b>Shutter/ strobe</b>	
		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, Electronic strobing „ZAP” from slow to fast	proportional
		192 - 223	Random strobe-effect from slow to fast	proportional
		224 - 255	Shutter open	step
<b>40</b>	<b>33</b>		<b>Dimmer intensity</b>	
		0 - 255	Dimmer intensity from 0% to 100%	proportional
<b>41</b>	<b>*</b>		<b>Dimmer intensity - fine</b>	
		0 - 255	Fine dimming	proportional
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Filter 106 (Primary Red)	155	0	135	0	91	255	0	255
Filter 111 (Dark Pink)	0	0	0	0	0	152	80	0
Filter 115 (Peacock Blue)	0	0	0	0	200	0	124	0
Filter 116 (Medium Blue-Green)	0	0	0	0	236	0	145	0
Filter 117 (Steel Blue)	0	0	0	0	106	7	0	0
Filter 118 (Light Blue)	0	0	0	0	196	76	0	0
Filter 119 (Dark Blue)	0	0	145	0	238	47	0	0
Filter 120 (Deep Blue)	145	0	0	0	79	1	0	0
Filter 121 (Filter Green)	0	0	0	0	182	0	225	70
Filter 128 (Bright Pink)	0	0	0	0	89	216	0	0
Filter 131 (Marine Blue)	0	0	0	0	173	0	125	0
Filter 132 (Medium Blue)	0	0	0	0	255	136	0	0
Filter 134 (Golden Amber)	0	0	0	0	0	108	176	0
Filter 135 (Deep Golden Amber)	0	0	0	0	0	193	246	0
Filter 136 (Pale Lavender)	0	0	0	0	104	105	0	0
Filter 137 (Special Lavender)	0	0	0	0	155	117	0	0
Filter 138 (Pale Green)	0	0	0	0	143	0	179	0
Filter 139 (Primary Green)	0	0	0	0	216	0	236	0
Filter 141 (Bright Blue)	0	0	0	0	217	74	0	0
Filter 147 (Apricot)	0	0	0	0	0	99	143	0
Filter 148 (Bright Rose)	0	0	0	0	0	210	110	0
Filter 152 (Pale Gold)	0	0	0	0	0	86	103	0
Filter 154 (Pale Rose)	0	0	0	0	0	93	101	0
Filter 157 (Pink)	0	0	0	0	0	159	117	0
Filter 158 (Deep Orange)	0	0	0	0	0	156	231	0
Filter 162 (Bastard Amber)	0	0	0	0	0	83	100	0
Filter 164 (Flame Red)	0	0	0	0	0	217	210	0
Filter 165 (Daylight Blue)	0	0	0	0	191	94	0	0
Filter 169 (Lilac Tint)	0	0	0	0	76	85	0	0
Filter 170 (Deep Lavender)	0	0	0	0	118	123	0	0
Filter 172 (Lagoon Blue)	0	0	0	0	191	0	80	0
Filter 179 (Chrome Orange)	0	0	0	0	0	90	251	0
Filter 180 (Dark Lavender)	0	0	0	0	206	166	0	0
Filter 181 (Congo Blue)	145	0	145	0	131	0	103	0
Filter 197 (Alice Blue)	0	0	0	0	203	137	0	0
Filter 201 (Full C.T. Blue)	0	0	0	0	123	95	0	0
Filter 202 (Half C.T. Blue)	0	0	0	0	96	75	0	0
Filter 203 (Quarter C.T. Blue)	0	0	0	0	73	59	0	0
Filter 204 (Full C.T. Orange)	0	0	0	0	0	71	142	0
Filter 205 (Half C.T. Orange)	0	0	0	0	0	49	106	0
Filter 206 (Quarter C.T. Orange)	0	0	0	0	0	12	93	0
Filter 247 (Filter Minus Green)	0	0	0	0	0	99	72	0
Filter 248 (Half Minus Green)	0	0	0	0	0	83	71	0
Filter 281 (Three Quarter C.T. Blue)	0	0	0	0	111	81	0	0
Filter 285 (Three Quarter C.T. Orange)	0	0	0	0	0	49	124	0
Filter 352 (Glacier Blue)	0	0	0	0	171	83	0	0
Filter 353 (Lighter Blue)	0	0	0	0	153	0	77	0
Filter 715 (Cabana Blue)	0	0	0	0	248	155	0	0
Filter 778 (Millennium Gold)	0	0	0	0	0	171	240	0
Filter 793 (Vanity Fair)	0	0	0	0	72	222	18	0