

DMX protocol

Robin BMFL Spot - DMX protocol				
version 1.6		Mode 1 - Standard 16 bit, Mode 2 - Reduced 8 bit		
Mode/channel		DMX Value	Function	Type of control
1	2			
1	1		Pan	
		0 - 255	Pan movement by 540°	proportional
2	2		Pan Fine	
		0 - 255	Fine control of pan movement	proportional
3	3		Tilt	
		0 - 255	Tilt movement by 270°	proportional
4	4		Tilt fine	
		0 - 255	Fine control of tilt movement	proportional
5	5		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		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 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

DMX protocol

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 and pan/tilt	step
		250 - 255	LightMaster/RoboSpot fully disabled (except pan/tilt at LightMaster)	step
7	7		Colour wheel 1	
			<i>Continual positioning</i>	
		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
			<i>Positioning</i>	
		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
8	*		Colour wheel 1 - fine positioning	
		0 - 255	Fine positioning	proportional
9	8		Colour wheel 2	
			<i>Continual positioning</i>	
		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

DMX protocol

Mode/channel		DMX Value	Function	Type of control
1	2			
		128-129	White Positioning	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
10	*		Colour wheel 2 - fine positioning	
		0 - 255	Fine positioning	proportional
11	9		Cyan	
		0 - 255	Cyan (0-white, 255-full cyan)	proportional
12	10		Magenta	
		0 - 255	Magenta (0-white, 255-full magenta)	proportional
13	11		Yellow	
		0 - 255	Yellow (0-white, 255-full yellow)	proportional
14	12		CTO filter	
		0 - 255	(0-6700K, 255-2700K)	proportional
15	13		CMY +CTO + CW1+CW2 macros	
			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

DMX protocol

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

DMX protocol

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
16	14		Effect Speed	
			<i>Speed of CMY&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
17	15		CMY+CTO+Colour wheel time	
		0	Function is off	step
		1 - 255	Time of CMY, CTO and Colour wheel movement (0.1sec-->25.5sec.)	proportional
18	16		Zoom+Focus+Iris+Frost+Prism time	
		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
19	17		Dual graphic wheel positioning	
		0-19	No function	step
		20-127	Proportional indexing (73-center)	proportional
		128-170	Ramping from open to full position (max--->min. speed)	proportional

DMX protocol

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
20	18		Dual graphic wheel-Graphic wheel 1 rotation	
		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
21	19		Dual graphic wheel-Graphic wheel 2 rotation	
		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
22	20		Dual graphic wheel animations	
		0-7	No animation	step
			<u>Colour animations</u>	
			(Distance from projection screen: 5m, zoom=155 DMX)	
			Note : The channels are disabled: Colour wheel 1 and 2, Cyan, Magenta, Yellow, 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>	
		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
			Note : 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

DMX protocol

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
			<u>Black and white animations</u>	
			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
			Note : 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	
23	21		Rotating gobo wheel 1 <i>In the range of 0-59 DMX the gobo selection speed is controlled by the Effect Speed channel.</i>	

DMX protocol

Mode/channel		DMX Value	Function	Type of control
1	2			
			<i>Index - set indexing on channel 24/22</i>	
		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
			<i>Rotation - set rotation on channel 24/22</i>	
		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
			<i>Shaking gobos from slow to fast</i>	
			<i>Index - set indexing on channel 24/22</i>	
		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
			<i>Shaking gobos from slow to fast</i>	
			<i>Rotation - set rotation on channel 24/22</i>	
		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
24	22		Rot. Gobo 1 indexing/rotation	
			<i>Gobo indexing - set position on channel 23/21</i>	
		0 - 255	Gobo indexing	proportional
			<i>Gobo rotation - set position on channel 23/21</i>	
		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
25	*		Rot. Gobo 1 indexing/rotation - fine	
		0-255	Fine indexing (rotation)	proportional

DMX protocol

Mode/channel		DMX Value	Function	Type of control
1	2			
26	23		Rotating gobo wheel 2 <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 27/24</i>	
		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
			<i>Rotation - set rotation on channel 27/24</i>	
		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
			<i>Shaking gobos from slow to fast</i>	
			<i>Index - set indexing on channel 27/24</i>	
		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
			<i>Shaking gobos from slow to fast</i>	
			<i>Rotation - set rotation on channel 27/24</i>	
		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		
27	24		Rot. Gobo 2 indexing/rotation <i>Gobo indexing - set position on channel 26/23</i>	
		0 - 255	Gobo indexing	proportional
			<i>Gobo rotation - set position on channel 26/23</i>	
		0	No rotation	step
		1 - 127	Forwards gobo rotation from fast to slow	proportional
		128	No rotation - <u>default</u>	step

DMX protocol

Mode/channel		DMX Value	Function	Type of control
1	2			
		129 - 255	Backwards gobo rotation from slow to fast	proportional
28	*		Rot. Gobo 2 indexing/rotation - fine	
		0-255	Fine indexing (rotation)	proportional
29	25		Prism	
		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
30	26		Prism rotation	
		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
31	27		Frost	
		0	Open- <u>default</u>	step
			Light	
		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
			Medium	
		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
			Heavy	

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
32	28		Iris	
		0	Open	step
		1 - 179	From max.diameter to min.diameter	proportional
		180 - 191	Closed	step
			Pulse effects with Iris blackout:	
		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
33	*		Iris - fine	
		0 - 255	Fine iris movement	proportional
34	29		Zoom	
		0 - 255	Zoom from max. to min.beam angle	proportional
35	*		Zoom - fine	
		0-255	Fine zooming	proportional
36	30		Focus	
		0 - 255	Continuous adjustment from far to near	proportional
37	*		Focus - fine	
		0- 255	Fine focusing	proportional
38	31		Autofocus	
		0	Autofocus Off	step
		1-255	Autofocus On	proportional
39	32		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, Electronic strobing „ZAP” from slow to fast	proportional
		192 - 223	Random strobe-effect from slow to fast	proportional
		224 - 255	Shutter open	step
40	33		Dimmer intensity	
		0 - 255	Dimmer intensity from 0% to 100%	proportional
41	*		Dimmer intensity - fine	
		0 - 255	Fine dimming	proportional
Copyright © 2015-2017 Robe Lighting s.r.o. - All rights reserved				
All Specifications subject to change without notice				

Colour macros								
Color name	CW1 DMX	CW1 fine DMX	CW2 DMX	CW2 fine DMX	Cyan DMX	Magenta DMX	Yellow DMX	CTO DMX
Colour Macro 1	0	0	0	0	0	116	0	95
Colour Macro 2	0	0	0	0	0	148	0	108
Colour Macro 3	0	0	0	0	0	196	0	108
Colour Macro 4	0	0	0	0	0	255	0	98
Colour Macro 5	0	0	0	0	0	255	0	215
Colour Macro 6	0	0	0	0	0	255	161	0
Colour Macro 7	0	0	0	0	0	255	210	0
Colour Macro 8	0	0	0	0	0	255	255	0
Colour Macro 9	0	0	0	0	0	220	255	0
Colour Macro 10	0	0	0	0	0	192	255	0
Colour Macro 11	0	0	0	0	0	144	255	0
Colour Macro 12	0	0	0	0	0	97	255	0
Colour Macro 13	0	0	0	0	0	0	255	95
Colour Macro 14	0	0	0	0	0	0	255	65
Colour Macro 15	0	0	0	0	0	0	255	0
Colour Macro 16	0	0	0	0	91	0	255	0
Colour Macro 17	0	0	0	0	152	0	255	0
Colour Macro 18	0	0	0	0	213	0	255	0
Colour Macro 19	0	0	0	0	255	0	231	0
Colour Macro 20	0	0	0	0	255	0	188	0
Colour Macro 21	0	0	0	0	255	0	90	0
Colour Macro 22	0	0	0	0	255	0	70	0
Colour Macro 23	0	0	0	0	255	0	0	0
Colour Macro 24	0	0	0	0	255	57	0	0
Colour Macro 25	0	0	0	0	255	83	0	0
Colour Macro 26	0	0	0	0	255	127	0	0
Colour Macro 27	0	0	0	0	255	166	0	0
Colour Macro 28	0	0	0	0	255	226	0	0
Colour Macro 29	0	0	0	0	255	255	0	0
Colour Macro 30	0	0	0	0	255	255	95	0
Filter 4 (Medium Bastard Amber)	0	0	0	0	0	94	107	0
Filter 10 (Medium Yellow)	0	0	0	0	110	0	255	0
Filter 19 (Fire)	0	0	0	0	0	222	236	0
Filter 26 (Bright Red)	175	0	0	0	0	255	221	255
Filter 58 (Lavender)	0	0	0	0	200	166	0	0
Filter 68 (Sky Blue)	0	0	0	0	226	125	0	0
Filter 71 (Tokyo Blue)	145	0	0	0	241	116	0	0
Filter 79 (Just Blue)	0	0	0	0	254	149	0	0
Filter 88 (Lime Green)	0	0	155	0	89	0	134	0
Filter 90 (Dark Yellow Green)	0	0	0	0	228	0	236	0
Filter 100 (Spring Yellow)	0	0	0	0	128	0	231	0
Filter 101 (Yellow)	0	0	0	0	97	0	245	0
Filter 102 (Light Amber)	0	0	0	0	84	0	190	0
Filter 103 (Straw)	0	0	0	0	0	52	106	0
Filter 104 (Deep Amber)	0	0	0	0	0	9	218	0
Filter 105 (Orange)	0	0	0	0	0	132	242	0

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