

DMX protocol

Robin Esprite - DMX protocol

Version: 1.8 Mode 1 - Standard 16 bit, Mode 2 - Reduced 8 bit, Mode 3 -Standard 16 bit + green corre., Mode 3 -Reduced 8 bit + green corre.

Quick overview of default DMX values for each channel

Mode/channel				Default DMX Value	Function
1	2	3	4		
1	1	1	1	128	Pan
2	2	2	2	0	Pan Fine
3	3	3	3	128	Tilt
4	4	4	4	0	Tilt fine
5	5	5	5	0	Pan/Tilt speed , Pan/Tilt time
6	6	6	6	0	Power/Special functions
7	7	7	7	10	LED frequency selection
8	8	8	8	128	LED frequency fine adjusting
9	9	9	9	0	Max. light intensity indication and setting
10	10	10	10	0	Colour wheel 1
11	*	11	*	0	Colour wheel 1-fine positioning
12	11	12	11	0	Colour wheel 2
13	*	13	*	0	Colour wheel 2-fine positioning
14	12	14	12	0	Cyan
15	13	15	13	0	Magenta
16	14	16	14	0	Yellow
17	15	17	15	0	CTO
*	*	18	16	128	Green Correction
18	16	19	17	0	Virtual colour wheel
19	17	20	18	0	Effects speed
20	18	21	19	0	CMY+CTO+Colour wheels time
21	19	22	20	0	Static gobo/ Framing shutters/Zoom/Focus/Iris/Frost/Prism time
22	20	23	21	0	Effect wheel positioning
23	21	24	22	128	Effect wheel rotation
24	22	25	23	0	Effect wheel animations
25	23	26	24	0	Static gobo wheel
26	24	27	25	0	Rotating gobo wheel
27	25	28	26	128	Rot. gobo indexing and rotation
28	*	29	*	0	Rot. gobo indexing/rotation - fine
29	26	30	27	0	Prism
30	27	31	28	128	Prism indexing/rotation
31	28	32	29	0	Frost
32	29	33	30	0	Iris
33	*	34	*	0	Iris - fine
34	30	35	31	128	Zoom
35	*	36	*	0	Zoom - fine
36	31	37	32	128	Focus
37	*	38	*	0	Focus - fine
38	32	39	33	128	Framing shutters module rotation
39	33	40	34	0	Framing shutter 1- movement
40	34	41	35	128	Framing shutter 1- swivelling
41	35	42	36	0	Framing shutter 2- movement
42	36	43	37	128	Framing shutter 2- swivelling
43	37	44	38	0	Framing shutter 3 movement

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Mode/channel				Default DMX Value	Function	
1	2	3	4			
44	38	45	39	128	Framing shutter 3- swivelling	
45	39	46	40	0	Framing shutter 4 movement	
46	40	47	41	128	Framing shutter 4- swivelling	
47	41	48	42	32	Shutter/ strobe	
48	42	49	43	0	Dimmer intensity	
49	*	50	*	0	Dimmer intensity - fine	
Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
1	1	1	1	0 - 255	Pan Pan movement by 540° (128=default)	proportional
2	2	2	2	0 - 255	Pan Fine Fine control of pan movement (0=default)	proportional
3	3	3	3	0 - 255	Tilt Tilt movement by 265° (128=default)	proportional
4	4	4	4	0 - 255	Tilt fine Fine control of tilt movement (0=default)	proportional
5	5	5	5	0	Pan/Tilt speed , Pan/Tilt time Standard mode (0=default)	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 sec. to 25.5 sec.	proportional
6	6	6	6		Power/Special functions Factory display menu setting: DMX Input-Wired ,Graphic display-On, Pan/tilt Mode-Speed,Blackout while pan/tilt moving-Off, Blackout while gobo wheels moving-Off,Blackout while colour wheels moving-Off, Fans mode-Auto, High-power mode Off	
				0 - 9	Reserved (0=default) <i>To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. (Channel „Shutter/ Strobe“ 47/41/48/42 must be at range: 0-31 DMX). Corresponding menu items are temporarily overwritten.</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
				30-39	Reserved	
				40-44	Pan/Tilt mode: Speed	step
				45-49	Pan/Tilt mode: Time	step
				50-54	Blackout while pan/tilt moving: On	step
				55-59	Blackout while pan/tilt moving: Off	step
				60-64	Blackout while gobo wheels moving: On	step
				65-69	Blackout while gobo wheels moving: Off	step

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				70-74	Blackout while colour wheels moving: On	step
				75-79	Blackout while colour wheels moving: Off	step
				80-84	Fans mode: Auto	step
				85-89	Fans mode: High	step
				90-94	High-power mode: On	step
				95-99	High power mode: Off	step
				100-109	Reserved	
				110-114	Dimmer curve: Square law	step
				115-119	Dimmer curve: Linear	step
				120-124	Parking position: On	step
				125-129	Parking position: Off	step
					<i>To activate following functions, stop in DMX value for at least 3 seconds.</i>	
				130 - 139	Fixture reset (except pan/tilt)	
				140 - 149	Pan/Tilt reset	step
				150 - 159	Colour system reset	step
				160 - 169	Gobo wheels/effect wheel reset	step
				170 - 179	Reserved	
				180 - 189	Zoom/focus/frost/prism reset	step
				190 - 199	Iris /framing shutters reset	step
				200 - 209	Total fixture reset	step
				210-224	Reserved	
					The following RoboSpot related commands are only applicable when the RoboSpot is connected:	
				225 - 229	RoboSpot enabled	step
				230 - 234	RoboSpot disabled - except handle faders and pan/tilt	step
				235 - 239	RoboSpot fully disabled	step
				240	Disabled "Quiet mode"	step
				241 - 255	Quiet mode - fan noise control from min. to max.	proportional
7	7	7	7		LED frequency selection	
					Factory display menu setting: 600Hz	
					<i>Select PWM output frequency of LEDs. Selected PWM frequency can be fine adjusted in 127 steps up/down around selected PWM frequency on the channel below. Corresponding menu item (Frequency Setup) is temporarily overridden.</i>	
				0-4	PWM frequency from Display menu (fixture utilizes PWM frequency set in the display menu item Frequency Setup).	step
				5-9	300 Hz	step
				10-14	600 Hz (10=default)	step
				15-19	1200 Hz	step
				20-24	2400 Hz	step
				25-255	Reserved (fixture utilizes PWM frequency set in the display menu item Frequency Setup).	
8	8	8	8		LED frequency fine adjusting	
					Factory display menu setting: 600Hz	
					<i>Select desired PWM output frequency of LEDs on the channel above.</i>	
				0-1	Selected LED Frequency	step
				2	LED Frequency (step -126)	step
				3	LED Frequency (step -125)	step
				4	LED Frequency (step -124)	step

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				:		
				125	LED Frequency (step -3)	step
				126	LED Frequency (step -2)	step
				127	LED Frequency (step -1)	step
				128	Selected LED Frequency (128=default)	step
				129	LED Frequency (step +1)	step
				130	LED Frequency (step +2)	step
				131	LED Frequency (step +3)	step
				:		
				252	LED Frequency (step +124)	step
				253	LED Frequency (step +125)	step
				254	LED Frequency (step +126)	step
				255	Selected LED Frequency	step
9	9	9	9		Max. light intensity indication and setting	
				0-10	No function (0=default)	
				11-20	Indication of drop of max. light intensity	step
					<i>A drop of max. light intensity of the fixture (compared to its original intensity) is indicated by a corresponding colour output: 0-5%, (WHITE /new LED module/) 6-10% (RED) 11-15% (GREEN) 16-20% (BLUE) 21-25% (CYAN) 26-30% (MAGENTA) 31-35% (YELLOW) 36-40% (ORANGE) Pan/tilt/zoom is set at 128 DMX (50%), Dimmer is open at 255 DMX (100%).</i>	
					<i>To set a drop of max. light intensity (compared to original light intensity), stay at DMX value for at least 3 sec. and shutter must be closed at least 3 sec. (Channel „Shutter/ Strobe“ 47/41 must be at range: 0-31 DMX). Corresponding menu items are permanently overwritten.</i>	
				21-30	Set drop by 6-10% (RED)	step
				31-40	Set drop by 11-15% (GREEN)	step
				41-50	Set Drop by 16-20% (BLUE)	step
				51-60	Set drop by 21-25% (CYAN)	step
				61-70	Set drop by 26-30% (MAGENTA)	step
				71-80	Set drop by 31-35% (YELLOW)	step
				81-90	Set drop by 36-40% (ORANGE)	step
				91-100	Original intensity (WHITE)	step
				101-255	Reserved	
10	10	10	10		Colour wheel 1	
					Continual positioning	
				0	Open/white (0=default)	proportional
				21	Deep red	proportional
				43	Deep blue	proportional
				64	Orange	proportional

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				86	Green	proportional
				107	Congo blue	proportional
				128-129	Open/White	step
					Positioning	
				130-141	Deep red	step
				142-153	Deep blue	step
				154-165	Orange	step
				166-177	Green	step
				178-189	Congo blue	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
11	*	11	*		Colour wheel 1 - fine positioning	
				0 - 255	Fine positioning (0=default)	proportional
12	11	12	11		Colour wheel 2	
					Continual positioning	
				0	Open/white (0=default)	proportional
				21	Multicolour	proportional
				43	Laser green	proportional
				64	Lavender	proportional
				86	Filter CRI 80	proportional
				107	Filter CRI 90	proportional
				128-129	Open/White	step
					Positioning	
				130-141	Multicolour	step
				142-153	Laser green	step
				154-165	Lavender	step
				166-177	Filter CRI 80	step
				178-189	Filter CRI 90	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
13	*	13	*		Colour wheel 2 - fine positioning	
				0 - 255	Fine positioning (0=default)	proportional
14	12	14	12		Cyan	
				0 - 255	Cyan from min. saturation --> full cyan (0=default)	proportional
15	13	15	13		Magenta	
				0 - 255	Magenta from min. saturation --> full magenta (0=default)	proportional
16	14	16	14		Yellow	
				0 - 255	Yellow from min. saturation --> full yellow (0=default)	proportional
17	15	17	15		CTO filter	
				0 - 255	CTO from 6700K --> 3000K (0=default)	proportional

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
*	*	18	16		Green correction	
				0	Uncorrected white	step
				1-127	Minus green --> uncorrected white	proportional
				128	Uncorrected white (128=default)	step
				129-255	Uncorrected white --> Plus green	proportional
18	16	19	17		Virtual colour wheel	
				0	No function (0=default)	step
				1-2	Filter 4 (Medium Bastard Amber)	step
				3-4	Filter 10 (Medium Yellow)	step
				5-6	Filter 19 (Fire)	step
				7-8	Filter 26 (Bright Red)	step
				9-10	Filter 58 (Lavender)	step
				11-12	Filter 68 (Sky Blue)	step
				13-14	Filter 71 (Tokyo Blue)	step
				15-16	Filter 79 (Just Blue)	step
				17-18	Filter 88 (Lime Green)	step
				19-20	Filter 90 (Dark Yellow Green)	step
				21-22	Filter 100 (Spring Yellow)	step
				23-24	Filter 101 (Yellow)	step
				25-26	Filter 102 (Light Amber)	step
				27-28	Filter 103 (Straw)	step
				29-30	Filter 104 (Deep Amber)	step
				31-32	Filter 105 (Orange)	step
				33-34	Filter 106 (Primary Red)	step
				35-36	Filter 111 (Dark Pink)	step
				37-38	Filter 115 (Peacock Blue)	step
				39-40	Filter 116 (Medium Blue-Green)	step
				41-42	Filter 117 (Steel Blue)	step
				43-44	Filter 118 (Light Blue)	step
				45-46	Filter 119 (Dark Blue)	step
				47-48	Filter 120 (Deep Blue)	step
				49-50	Filter 121 (Filter Green)	step
				51-52	Filter 128 (Bright Pink)	step
				53-54	Filter 131 (Marine Blue)	step
				55-56	Filter 132 (Medium Blue)	step
				57-58	Filter 134 (Golden Amber)	step
				59-60	Filter 135 (Deep Golden Amber)	step
				61-62	Filter 136 (Pale Lavender)	step
				63-64	Filter 137 (Special Lavender)	step
				65-66	Filter 138 (Pale Green)	step
				67-68	Filter 139 (Primary Green)	step
				69-70	Filter 141 (Bright Blue)	step
				71-72	Filter 147 (Apricot)	step
				73-74	Filter 148 (Bright Rose)	step
				75-76	Filter 152 (Pale Gold)	step
				77-78	Filter 154 (Pale Rose)	step
				79-80	Filter 157 (Pink)	step
				81-82	Filter 158 (Deep Orange)	step

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				83-84	Filter 162 (Bastard Amber)	step
				85-86	Filter 164 (Flame Red)	step
				87-88	Filter 165 (Daylight Blue)	step
				89-90	Filter 169 (Lilac Tint)	step
				91-92	Filter 170 (Deep Lavender)	step
				93-94	Filter 172 (Lagoon Blue)	step
				95-96	Filter 179 (Chrome Orange)	step
				97-98	Filter 180 (Dark Lavender)	step
				99-100	Filter 181 (Congo Blue)	step
				101-102	Filter 197 (Alice Blue)	step
				103-104	Filter 201 (Full C.T. Blue)	step
				105-106	Filter 202 (Half C.T. Blue)	step
				107-108	Filter 203 (Quarter C.T. Blue)	step
				109-110	Filter 204 (Full C.T. Orange)	step
				111-112	Filter 205 (Half C.T. Orange)	step
				113-114	Filter 206 (Quarter C.T. Orange)	step
				115-116	Filter 247 (Filter Minus Green)	step
				117-118	Filter 248 (Half Minus Green)	step
				119-120	Filter 281 (Three Quarter C.T. Blue)	step
				121-122	Filter 285 (Three Quarter C.T. Orange)	step
				123-124	Filter 352 (Glacier Blue)	step
				125-126	Filter 353 (Lighter Blue)	step
				127-128	Filter 715 (Cabana Blue)	step
				129-130	Filter 778 (Millennium Gold)	step
				131-132	Filter 793 (Vanity Fair)	step
				133-255	Reserved	
19	17	20	18		Effects Speed <i>Speed of CMY&CTO movement and Rot. Gobo/Static Gobo selection</i>	
				0-255	Speed of CMY+CTO movement from max. to min. (0=default)	proportional
				0-255	Speed of Rot. Gobo/Stat. Gobo selection from max. to min.	proportional
20	18	21	19		CMY+CTO+Colour wheels time	
				0	Function is off (0=default)	step
				1 - 255	Time of CMY, CTO and Colour wheels movement (0.1sec-->25.5sec.)	proportional
21	19	22	20		Static gobo wheel/ Framing shutters/Zoom/Focus/Iris/Frost/Prism time	
				0	Function is off (0=default)	step
				1-255	Time of Static gobo movement (0.1 sec-->25.5 sec.)	proportional
				1 - 255	Time of framing shutters, 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
22	20	23	21		Effect wheel positioning	
				0-19	No function (0=default)	step
				20-127	Proportional indexing (73-center)	proportional
				128-170	Ramping from open to full position (max-->min. speed)	proportional
				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
23	21	24	22		Effect wheel rotation	

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				0	No rotation	step
				1 - 127	Forwards rotation from fast to slow	proportional
				128	No rotation (128=default)	step
				129 - 255	Backwards rotation from slow to fast	proportional
24	22	25	23		Effect wheel animations	
				0-7	No animation (0=default) <i>Note : Set suitable DMX value at Focus channel to get desired animation. All animations were created at distance of 5 m from screen with zoom=128 DMX, Focus value is different for each effect (focus value is stated in parentheses for this distance)</i>	
					<i>The following channels are blocked: Effect wheel positioning, Effect wheel rotation, Static gobo wheel. Rotating gobo wheel, Rot. Gobo indexing and rotation, Rot. Gobo wheel fine rotation.</i>	
				8-9	Macro 1 (Focus=159)	step
				10-11	Macro 2 (Focus=144)	step
				12-13	Macro 3 (Focus=146)	step
				14-15	Macro 4 (Focus=160)	step
				16-17	Macro 5 (Focus=181)	step
				18-19	Macro 6 (Focus=181)	step
				20-21	Macro 7 (Focus=166)	step
				22-23	Macro 8 (Focus=142)	step
				24-25	Macro 9 (Focus=151)	step
				26-27	Macro 10 (Focus=152)	step
				28-255	Reserved	
25	23	26	24		Static gobo wheel	
				0-8	Open/hole (0=default)	step
				9-17	Gobo 1	step
				18-26	Gobo 2	step
				27-35	Gobo 3	step
				36-44	Gobo 4	step
				45-53	Gobo 5	step
				54-62	Gobo 6	step
				63-71	Gobo 7	step
				72-80	Gobo 8	step
				81-91	Gobo 9	step
					<u>Shaking gobos from slow to fast</u>	
				92-103	Gobo 1	proportional
				104-115	Gobo 2	proportional
				116-127	Gobo 3	proportional
				128-139	Gobo 4	proportional
				140-151	Gobo 5	proportional
				152-163	Gobo 6	proportional
				164-175	Gobo 7	proportional
				176-187	Gobo 8	proportional
				188-199	Gobo 9	proportional
				200 - 201	Open/hole	step
				202 - 222	Forwards gobo wheel rotation from fast to slow	proportional
				223 - 243	Backwards gobo wheel rotation from slow to fast	proportional
				244 - 249	Random gobo selection by audio control	step

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
					<i>(Set microphone sensitivity in menu „Personality“)</i>	
				250 - 255	Auto random gobo selection from fast to slow	proportional
26	24	27	25		Rotating gobo wheel	
					<i>Index - set indexing on channel 27/25/28/26</i>	
				0-3	Open/hole (0=default)	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 27/25/28/26</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
					<u>Shaking gobos from slow to fast</u>	
					<i>Index - set indexing on channel 27/25/28/26</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
					<u>Shaking gobos from slow to fast</u>	
					<i>Rotation - set rotation on channel 27/25/28/26</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
				200 - 201	Open/hole	step
				202 - 222	Forwards gobo wheel rotation from fast to slow	proportional
				223 - 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
27	25	28	26		Rot. gobo indexing and rotation	
					<i>Gobo indexing - set position on channel 26/24/27/25</i>	
				0 - 255	Gobo indexing	proportional
					<i>Gobo rotation - set position on channel 26/24/27/25</i>	

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				0	No rotation	step
				1 - 127	Forwards gobo rotation from fast to slow	proportional
				128	No rotation (128=default)	step
				129 - 255	Backwards gobo rotation from slow to fast	proportional
28	*	29	*		Rot. gobo indexing/rotation - fine	
				0-255	Fine indexing/rotation (0=default)	proportional
29	26	30	27		Prism	
				0 - 19	Open position - hole (0=default)	step
				20 - 73	Prism indexing	step
				74-127	Prism rotation	step
					Prism/gobo macros	
					<i>The following channels are blocked: Prism, Prism rotation, Static gobo wheel, Rotating gobo wheel, Rot. Gobo indexing and rotation, Rot. Gobo wheel fine rotation.</i>	
				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	27	31	28		Prism indexing/rotation	
					Prism indexing - set position on channel 29/26/30/27	
				0 - 255	Prism 1 indexing	proportional
					Prism rotation - set position on channel 29/26/30/27	
				0	No rotation	step
				1 - 127	Forwards prism rotation from fast to slow	proportional
				128	No rotation (128=default)	step
				129-255	Backwards prism rotation from slow to fast	proportional
31	28	32	29		Frost	
				0	Open (0=default)	step
					Light Frost	
				1-50	Light Frost from 0% to 100%	proportional
				51-53	100% Light 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 Frost	

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				87-136	Medium Frost from 0% to 100%	proportional
				137-139	100% Medium 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
					Combined Frost	
				173-222	Medium Frost from 0% to 100% (Light Frost inserted)	proportional
				223-225	100% Medium Frost (Light Frost inserted)	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	29	33	30		Iris	
				0	Open (0=default)	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	*	34	*		Iris - fine	
				0 - 255	Fine iris movement (0=default)	proportional
34	30	35	31		Zoom	
				0 - 255	Zoom from max. to min. beam angle (128=default)	proportional
35	*	36	*		Zoom - fine	
				0-255	Fine zooming (0=default)	proportional
36	31	37	32		Focus	
				0 - 255	Continuous adjustment from far to near (128=default)	proportional
37	*	38	*		Focus - fine	
				0- 255	Fine focusing (0=default)	proportional
38	32	39	33		Framing shutters module rotation	
				0-127	Rotation from right (0°) to 60°	proportional
				128	Centre (128=default)	step
				129-255	Rotation from 60° to left (120°)	proportional
39	33	40	34		Framing shutter 1- movement	
				0-255	Movement from Outward to Inward (0=default)	proportional
40	34	41	35		Framing shutter 1- swivelling	
				0-127	Swivelling from -30 degrees towards 0 degrees	proportional
				128	0 degrees (128=default)	step
				129-255	Swivelling from 0 degrees to +30 degrees	proportional
41	35	42	36		Framing shutter 2- movement	
				0-255	Movement from Outward to Inward (0=default)	proportional
42	36	43	37		Framing shutter 2- swivelling	
				0-127	Swivelling from -30 degrees towards 0 degrees	proportional
				128	0 degrees (128=default)	step

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				129-255	Swivelling from 0 degrees to +30 degrees	proportional
43	37	44	38		Framing shutter 3 movement	
				0-255	Movement from Outward to Inward (0=default)	proportional
44	38	45	39		Framing shutter 3- swivelling	
				0-127	Swivelling from -30 degrees towards 0 degrees	proportional
				128	0 degrees (128=default)	step
				129-255	Swivelling from 0 degrees to +30 degrees	proportional
45	39	46	40		Framing shutter 4 movement	
				0-255	Movement from Outward to Inward (0=default)	proportional
46	40	47	41		Framing shutter 4- swivelling	
				0-127	Swivelling from -30 degrees towards 0 degrees	proportional
				128	0 degrees (128=default)	step
				129-255	Swivelling from 0 degrees to +30 degrees	proportional
47	41	48	42		Shutter/ strobe	
				0 - 31	Shutter closed	step
				32 - 63	Shutter open (32=default)	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
48	42	49	43		Dimmer intensity	
				0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
49	*	50	*		Dimmer intensity - fine	
				0 - 255	Fine dimming (0=default)	proportional
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Robin Esprite - Colours on Virtual Colour Wheel						
Colour name	Col. Wheel 1 DMX	Col. Wheel 2 DMX	Cyan DMX	Magenta DMX	Yellow DMX	CTO DMX
Filter 4 (Medium Bastard Amber)	0	0	0	134	150	225
Filter 10 (Medium Yellow)	0	0	0	45	210	255
Filter 19 (Fire)	154	0	0	210	0	0
Filter 26 (Bright Red)	130	0	0	45	255	90
Filter 58 (Lavender)	0	0	10	205	93	101
Filter 68 (Sky Blue)	0	154	165	120	0	0
Filter 71 (Tokyo Blue)	144	0	0	0	0	0
Filter 79 (Just Blue)	0	154	165	135	0	0
Filter 88 (Lime Green)	0	142	0	90	0	225
Filter 90 (Dark Yellow Green)	0	142	201	0	147	0
Filter 100 (Spring Yellow)	0	0	0	0	210	165
Filter 101 (Yellow)	0	0	0	75	210	255
Filter 102 (Light Amber)	0	0	0	60	165	240
Filter 103 (Straw)	0	0	0	0	150	240
Filter 104 (Deep Amber)	0	0	0	150	225	210
Filter 105 (Orange)	0	0	0	195	240	150
Filter 106 (Primary Red)	154	0	0	240	0	15
Filter 111 (Dark Pink)	0	0	0	182	164	255
Filter 115 (Peacock Blue)	0	0	246	0	185	0
Filter 116 (Medium Blue-Green)	0	0	239	0	193	0
Filter 117 (Steel Blue)	0	0	180	90	165	15
Filter 118 (Light Blue)	0	0	225	0	165	30
Filter 119 (Dark Blue)	0	0	255	120	0	0
Filter 120 (Deep Blue)	0	154	255	30	0	105
Filter 121 (Filter Green)	0	142	135	0	210	0
Filter 128 (Bright Pink)	0	0	52	235	194	113
Filter 131 (Marine Blue)	0	0	210	15	135	30
Filter 132 (Medium Blue)	0	0	240	0	15	105
Filter 134 (Golden Amber)	0	0	49	201	237	28
Filter 135 (Deep Golden Amber)	0	0	49	223	254	40
Filter 136 (Pale Lavender)	0	0	64	198	131	0
Filter 137 (Special Lavender)	0	0	34	159	112	0
Filter 138 (Pale Green)	0	0	120	81	201	50
Filter 139 (Primary Green)	166	0	0	0	0	240
Filter 141 (Bright Blue)	0	0	240	0	45	195
Filter 147 (Apricot)	0	0	0	182	221	0
Filter 148 (Bright Rose)	0	0	0	225	217	0
Filter 152 (Pale Gold)	0	0	57	190	204	0
Filter 154 (Pale Rose)	0	0	57	185	189	67
Filter 157 (Pink)	0	0	59	224	223	0
Filter 158 (Deep Orange)	0	0	0	220	255	0
Filter 162 (Bastard Amber)	0	0	0	165	195	0
Filter 164 (Flame Red)	154	0	0	240	30	195
Filter 165 (Daylight Blue)	0	0	210	0	0	75
Filter 169 (Lilac Tint)	0	0	87	202	169	0

Colour name	Col. Wheel 1 DMX	Col. Wheel 2 DMX	Cyan DMX	Magenta DMX	Yellow DMX	CTO DMX
Filter 170 (Deep Lavender)	0	0	98	200	133	0
Filter 172 (Lagoon Blue)	0	0	225	30	135	15
Filter 179 (Chrome Orange)	0	0	57	190	240	0
Filter 180 (Dark Lavender)	0	0	175	185	0	0
Filter 181 (Congo Blue)	0	0	195	225	0	15
Filter 197 (Alice Blue)	0	154	225	0	0	60
Filter 201 (Full C.T. Blue)	0	0	180	0	105	60
Filter 202 (Half C.T. Blue)	0	0	168	0	37	118
Filter 203 (Quarter C.T. Blue)	0	0	135	45	120	0
Filter 204 (Full C.T. Orange)	0	0	0	195	240	30
Filter 205 (Half C.T. Orange)	0	0	90	180	210	0
Filter 206 (Quarter C.T. Orange)	0	0	0	165	163	30
Filter 247 (Filter Minus Green)	0	0	0	184	131	20
Filter 248 (Half Minus Green)	0	0	48	134	110	24
Filter 281 (Three Quarter C.T. Blue)	0	0	180	0	105	120
Filter 285 (Three Quarter C.T. Orange)	0	0	0	173	234	90
Filter 352 (Glacier Blue)	0	0	210	0	105	60
Filter 353 (Lighter Blue)	0	0	220	0	144	0
Filter 715 (Cabana Blue)	0	154	255	0	0	105
Filter 778 (Millennium Gold)	0	0	0	215	255	0
Filter 793 (Vanity Fair)	0	0	15	225	0	255