Robin T2 Profile - DMX protocol

Version: 1.7 Mode 1-CMY/RGB, Mode 2 -Reduced CMY/RGB, Mode 3-Five colours (R,G,B,A,Light Green)

Quick overview of default DMX values for each channel

Mode/channel			Default DMX Value	Function
1	2	3		
1	1	1	128	Pan
2	2	2	0	Pan Fine
3	3	3	128	Tilt
4	4	4	0	Tilt fine
5	5	5	0	Pan/Tilt speed , Pan/Tilt time
6	6	6	0	Power/Special functions
7	*	7	10	LED frequency selection
8	*	8	128	LED frequency fine adjusting
9	7	9	0	Colour functions
10	8	10	0	CRI selection
11	*	11	0	Virtual colour wheel
12	9	*	0/255	Cyan/Red (8 bit) (0=default for CMY mode, 255=default for RGB mode)
13	*	*	0/255	Cyan/Red (16 bit) (0=default for CMY mode, 255=default for RGB mode)
14	10	*	0/255	Magenta/Green (8 bit) (0=default for CMY mode, 255=default for RGB mode)
15	*	*	0/255	Magenta/Green (16 bit) (0=default for CMY mode, 255=default for RGB mode)
16	11	*	0/255	Yellow/Blue (8 bit) (0=default for CMY mode, 255=default for RGB mode)
17	*	*	0/255	Yellow/Blue (16 bit) (0=default for CMY mode, 255=default for RGB mode)
*	*	12	255	Red (8 bit)
*	*	13	255	Red (16bit)
*	*	14	255	Green (8 bit)
*	*	15	255	Green (16bit)
*	*	16	255	Blue (8 bit)
*	*	17	255	Blue (16bit)
*	*	18	255	Amber (8 bit)
*	*	19	255	Amber (16bit)
*	*	20	255	Light green (8 bit)
*	*	21	255	Light green (16bit)
18	12	22	110	Colour temperature correction (CTC)
19	*	23	128	Green correction
20	*	24	0	Colour mix control
21	*	25	0	Speed of Static/Rot. Gobo selection
22	*	26	0	Framing shutters/Zoom/Focus/Iris/Frost/Prism time
23	13	27	0	Effect wheel positioning
24	14	28	128	Effect wheel rotation
25	*	29	0	Effect wheel animations
26	15	30	0	Static gobo wheel
27	16	31	0	Rotating gobo wheel
28	17	32	128	Rot. gobo indexing and rotation
29	*	33	0	Rot. gobo indexing/rotation - fine
30	18	34	0	Prism 1 (6-facet linear prism)
31	19	35	128	Prism 1 rotation
32	20	36	0	Prism 2 (6-facet circular prism)
33	21	37	128	Prism 2 rotation

Mode/channel			Default DMX Value	Function
1	2	3		
34	22	38	0	Frost
35	23	39	0	Iris
36	*	40	0	Iris - fine
37	24	41	128	Zoom
38	*	42	0	Zoom - fine
39	25	43	128	Focus
40	*	44	0	Focus - fine
41	26	45	128	Framing shutters module rotation
42	27	46	0	Framing shutter 1- movement
43	28	47	128	Framing shutter 1- swivelling
44	29	48	0	Framing shutter 2- movement
45	30	49	128	Framing shutter 2- swivelling
46	31	50	0	Framing shutter 3 movement
47	32	51	128	Framing shutter 3- swivelling
48	33	52	0	Framing shutter 4 movement
49	34	53	128	Framing shutter 4- swivelling
50	35	54	32	Shutter/ strobe
51	36	55	0	Dimmer intensity
52	*	56	0	Dimmer intensity - fine

Mode/channel			DMX Value	Function	Type of control
1	2	3			
1	**1**	**1**		**Pan**	
			0 - 255	Pan movement by 540° (128=default)	proportional
2	**2**	**2**		**Pan Fine**	
			0 - 255	Fine control of pan movement (0=default)	proportional
3	**3**	**3**		**Tilt**	
			0 - 255	Tilt movement by 270° (128=default)	proportional
4	**4**	**4**		**Tilt fine**	
			0 - 255	Fine control of tilt movement (0=default)	proportional
5	**5**	**5**		**Pan/Tilt speed , Pan/Tilt time**	
			0	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**		**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 wheel moving-Off, Fans mode-Auto	
			0 -9	Reserved (0=default)	
				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 50/35/54 must be at range: 0-31 DMX). Corresponding menu items are temporarily overriden.	
			10-14	DMX input: Wired DMX *	step

Mode/channel			DMX Value	Function	Type of control
1	2	3			
			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	step
			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 wheel moving: On	step
			65-69	Blackout while gobo wheel moving: Off	step
			70-74	Fans mode: Auto	step
			75-79	Fans mode: High	step
			80-84	Quiet mode: Fans On at blackout	step
			85-89	Quiet mode: Fans Off at blackout	step
			90-119	Reserved	
			120-124	Parking position On	step
			125-129	Parking position Off	step
				To activate following functions, stop in DMX value for at least 3 seconds.	
			130 - 139	Fixture reset (except pan/tilt)	
			140 - 149	Pan/Tilt reset	step
			150 - 159	Reserved	step
			160 - 169	Gobo wheels/effect wheel reset	step
			170 - 179	Reserved	
			180 - 189	Zoom/focus/frosts/prisms 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**		**LED frequency selection**	
				Factory display menu setting: 600Hz	
				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 overriden.	
			0-4	PWM frequency from Display menu (fixture utilizes PWM	step
				frequency set in the display menu item Frequency Setup).	
			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).	

Mode/channel			DMX Value	Function	Type of control
1	2	3			
8	*	**8**		**LED frequency fine adjusting**	
				Factory display menu setting: 600Hz	
				Select desired PWM output frequency of LEDs on the channel above.	
			0-1	Selected LED Frequency	step
			2	LED Frequency (step -126)	step
			3	LED Frequency (step -125)	step
			4	LED Frequency (step -124)	step
			:		
			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	**7**	**9**		**Colour functions**	
				Factory display menu setting: Colour mixing mode-CMY, Dimmer Curve-Square Law, Tungsten effect simulation-Off, Chromatic white-Off, Light output stability-Off, Uniformity-Off	
			0	No function (0=default)	step
				To activate following functions, stop in DMX value for at least 3 seconds. Corresponding menu items are temporarily overriden	
			1-39	Reserved	
			40-44	Colour mixing mode: CMY (DMX Mode 1 and 2 only)	step
			45-49	Colour mixing mode: RGB (DMX mode 1 and 2), RGBAL (DMX mode 3 only)	step
			50-54	Dimmer curve: Square law	step
			55-59	Dimmer curve: Linear	step
			60-79	Raw DMX	proportional
				Tungsten effect simulation for whites 2700K-4200K only:	
			80-84	Tungsten effect simulation (750W/80V): On	step
			85-89	Tungsten effect simulation (1000W/240V): On	step
			90-94	Tungsten effect simulation (1200W/240V): On	step
			95-99	Tungsten effect simulation (2000W/230V): On	step
			100-104	Tungsten effect simulation (2500W/230V): On	step
			105-109	Tungsten effect simulation: Off	step
			110-114	Save user colour (see user manual, chapter 5.1 Colour influencing functions)	step
			115-119	Chromatic white: On	step
			120-124	Chromatic white: Off	step
			125-129	Light output stability On	step
			130-134	Light output stability Off	step
			135-139	Uniformity On	step
			140-144	Uniformity Off	step
			145-255	Reserved	
10	**8**	**10**		**CRI selection**	

Mode/channel			DMX Value	Function	Type of control
1	2	3			
			0-255	CRI selection from Standard (80) to High (90+) (0=default)	proportional
11	*	**11**		**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
			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

Mode/channel			DMX Value	Function	Type of control
1	2	3			
			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
				The following 70 multicolours are intended for using with prisma, rot. gobo, or effect wheel only. If none of the three effects is used, the colours wil not create multicolour effect.	
			133	Multicolour 1	step
			134	Multicolour 2	step
			135	Multicolour 3	step
			136	Multicolour 4	step
			137	Multicolour 5	step
			138	Multicolour 6	step
			139	Multicolour 7	step
			140	Multicolour 8	step
			141	Multicolour 9	step
			142	Multicolour 10	step
			143	Multicolour 11	step
			144	Multicolour 12	step
			145	Multicolour 13	step
			146	Multicolour 14	step
			147	Multicolour 15	step
			148	Multicolour 16	step
			149	Multicolour 17	step
			150	Multicolour 18	step
			151	Multicolour 19	step
			152	Multicolour 20	step
			153	Multicolour 21	step
			154	Multicolour 22	step
			155	Multicolour 23	step
			156	Multicolour 24	step

Mode/channel			DMX Value	Function	Type of control
1	2	3			
			157	Multicolour 25	step
			158	Multicolour 26	step
			159	Multicolour 27	step
			160	Multicolour 28	step
			161	Multicolour 29	step
			162	Multicolour 30	step
			163	Multicolour 31	step
			164	Multicolour 32	step
			165	Multicolour 33	step
			166	Multicolour 34	step
			167	Multicolour 35	step
			168	Multicolour 36	step
			169	Multicolour 37	step
			170	Multicolour 38	step
			171	Multicolour 39	step
			172	Multicolour 40	step
			173	Multicolour 41	step
			174	Multicolour 42	step
			175	Multicolour 43	step
			176	Multicolour 44	step
			177	Multicolour 45	step
			178	Multicolour 46	step
			179	Multicolour 47	step
			180	Multicolour 48	step
			181	Multicolour 49	step
			182	Multicolour 50	step
			183	Multicolour 51	step
			184	Multicolour 52	step
			185	Multicolour 53	step
			186	Multicolour 54	step
			187	Multicolour 55	step
			188	Multicolour 56	step
			189	Multicolour 57	step
			190	Multicolour 58	step
			191	Multicolour 59	step
			192	Multicolour 60	step
			193	Multicolour 61	step
			194	Multicolour 62	step
			195	Multicolour 63	step
			196	Multicolour 64	step
			197	Multicolour 65	step
			198	Multicolour 66	step
			199	Multicolour 67	step
			200	Multicolour 68	step
			201	Multicolour 69	step
			202	Multicolour 70	step
			203-215	Reserved	
			216-217	User colour 1	step

Mode/channel			DMX Value	Function	Type of control
1	2	3			
			218-219	User colour 2	step
			220-221	User colour 3	step
			222-223	User colour 4	step
			224-225	User colour 5	step
			226-227	User colour 6	step
			228-229	User colour 7	step
			230-231	User colour 8	step
			232-233	User colour 9	step
			234-235	User colour 10	step
			236-245	Rainbow effect (with fade time) from slow-> fast	proportional
			246-255	Rainbow effect (without fade time) from slow-> fast	proportional
12	**9**	*		**Cyan/Red (8 bit)**	
			0 - 255	Colour saturation control - coarse 0-100% (0=default for CMY mode, 255=default for RGB mode)	proportional
13	*	*		**Cyan/Red (16 bit)**	
			0 - 255	Colour saturation control - fine (0=default for CMY mode, 255=default for RGB mode)	proportional
14	**10**	*		**Magenta/Green (8 bit)**	
			0 - 255	Colour saturation control - coarse 0-100% (0=default for CMY mode, 255=default for RGB mode)	proportional
15	*	*		**Magenta/Green (16 bit)**	
			0 - 255	Colour saturation control - fine (0=default for CMY mode, 255=default for RGB mode)	proportional
16	**11**	*		**Yellow/Blue (8 bit)**	
			0 - 255	Colour saturation control - coarse 0-100% (0=default for CMY mode, 255=default for RGB mode)	proportional
17	*	*		**Yellow/Blue (16 bit)**	
			0 - 255	Colour saturation control - fine (0=default for CMY mode, 255=default for RGB mode)	proportional
*	*	**12**		**Red (8 bit)**	
			0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	**13**		**Red (16bit)**	
			0 - 255	Colour saturation control - fine (255=default)	proportional
*	*	**14**		**Green (8 bit)**	
			0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	**15**		**Green (16bit)**	
			0 - 255	Colour saturation control - fine (255=default)	proportional
*	*	**16**		**Blue (8 bit)**	
			0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	**17**		**Blue (16bit)**	
			0 - 255	Colour saturation control - fine (255=default)	proportional
*	*	**18**		**Amber (8 bit)**	
			0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	**19**		**Amber (16bit)**	
			0 - 255	Colour saturation control - fine (255=default)	proportional
*	*	**20**		**Light green (8 bit)**	
			0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	**21**		**Light green (16bit)**	
			0 - 255	colour saturation control - fine (255=default)	proportional

Mode/channel			DMX Value	Function	Type of control
1	2	3			
18	**12**	**22**		**Colour temperature correction (CTC)**	
			0-1	8000 K	step
			2-64	Colour temperature changing 7978 K ->6622 K (22 K /1 DMX)	proportional
			65	6600 K	step
			66-109	Colour temperature changing 657 8K ->5622 K (22 K/1 DMX)	proportional
			110	5600 K (110=default)	step
			111-179	Colour temperature changing 5580 K ->4220 K (20 K/1 DMX)	proportional
			180	4200 K	step
			181-229	Colour temperature changing 4180 K ->3220 K (20 K/1 DMX)	proportional
			230	3200 K	step
			231-254	Colour temperature changing 3180 K ->2720 K (20K /1 DMX)	proportional
			255	2700K	step
19	*	**23**		**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
20	*	**24**		**Colour mix control**	
				Defines relation between Virtual Colour wheel and colour channels	
				"Virtual" = Virtual Colour Wheel	
				"Colour mix" = Colour channels (CMY/RGBALight Green/CTC)	
			0-9	"Virtual " has priority over "Colour mix" (0=default)	
			10-19	Maximum mode (highest values have priority)	step
			20-29	Minimum mode (lowest values have priority)	step
			30-39	Multiply mode (multiply "Virtual" and "Colour mix")	step
			40-49	Addition mode ("Virtual" + "Colour mix")	step
			50-59	Subtraction mode ("Virtual" – "Colour mix")	step
			60-69	Inverted Subtraction mode ("Colour mix"-"Virtual")	step
			70-79	White Point Off (CTC+Green Cor.+Virtual Colour Wheel deactivated)	step
			80-128	Reserved	
			129	Crossfade "Virtual" only	step
			130-254	Crossfade between "Virtual" and "Colour mix"	proportional
			255	Crossfade "Colour mix" only	step
21	*	**25**		**Speed of Static/Rotation Gobo selection**	
			0-255	Speed of static/ rot. gobo selection from max. to min. (0=default)	proportional
22	*	**26**		**Rot. Gobo carousel/Framing shutters/Zoom/Focus/Iris/Frost/Prism time**	
			0	Function is off (0=default)	step
			1-255	Time of rot. Gobo carousel 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
23	**13**	**27**		**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

Mode/channel			DMX Value	Function	Type of control
1	2	3			
24	**14**	**28**		**Effect wheel rotation**	
			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
25	*	**29**		**Effect wheel animations**	
			0-7	No animation (0=default)	
				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=88 DMX, Focus value is different for each effect (focus value is stated in parentheses for this distance)*	
				The following channels are blocked: Effect wheel positioning, Effect wheel rotation, Rotating gobo wheel, Rot. Gobo indexing and rotation.	
			8-9	Macro 1 (Focus=94)	step
			10-11	Macro 2 (Focus=84)	step
			12-13	Macro 3 (Focus=87)	step
			14-15	Macro 4 (Focus=69)	step
			16-17	Macro 5 (Focus=82)	step
			18-19	Macro 6 (Focus=82)	step
			20-21	Macro 7 (Focus=72)	step
			22-23	Macro 8 (Focus=86)	step
			24-25	Macro 9 (Focus=78)	step
			26-27	Macro 10 (Focus=102)	step
			28-255	Reserved	
26	**15**	**30**		**Static gobo wheel**	
			0-7	Open/hole (0=default)	step
				Positioning	
			8-19	Gobo 1	step
			20-31	Gobo 2	step
			32-43	Gobo 3	step
			44-55	Gobo 4	step
			56-67	Gobo 5	step
			68-79	Gobo 6	step
			80-91	Gobo 7	step
			92-103	Gobo 8	step
				Shaking gobos from slow to fast	
			104-115	Gobo 1	proportional
			116-127	Gobo 2	proportional
			128-139	Gobo 3	proportional
			140-151	Gobo 4	proportional
			152-163	Gobo 5	proportional
			164-175	Gobo 6	proportional
			176-187	Gobo 7	proportional
			188-199	Gobo 8	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

Mode/channel			DMX Value	Function	Type of control
1	2	3			
				(Set microphone sensitivity in menu „Personality")	
			250 - 255	Auto random gobo selection from fast to slow	proportional
27	**16**	**31**		**Rotating gobo wheel**	
				Index - set indexing on channel 28/26/32	
			0-4	Open/hole (0=default)	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
				Rotation - set rotation on channel 28/26/32	
			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
				Shaking gobos from slow to fast	
				Index - set indexing on channel 28/26/32	
			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
				Shaking gobos from slow to fast	
				Rotation - set rotation on channel 28/26/32	
			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 - 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
				(Set microphone sensitivity in menu „Personality")	
			250 - 255	Auto random gobo selection from fast to slow	proportional
28	**17**	**32**		**Rot. gobo indexing and rotation**	
				Gobo indexing - set position on channel 27/16/31	
			0 - 255	Gobo indexing	proportional
				Gobo rotation - set position on channel 27/16/31	
			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

Mode/channel			DMX Value	Function	Type of control
1	2	3			
29	*	**33**		**Rot. gobo indexing/rotation - fine**	
			0-255	Fine indexing/rotation (0=default)	proportional
30	**18**	**34**		**Prism 1 (6-facet linear)**	
			0 - 19	Open position - hole (0=default)	step
			20 - 73	Prism indexing	step
			74-127	Prism rotation	step
				Prism 1/gobo macros	
				The following channels are blocked: Prism 1, Prism 1 indexing/rotation, Rotating gobo wheel, Rot. Gobo indexing and rotation.	
			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
31	**19**	**35**		**Prism 1 indexing/rotation**	
				Prism indexing - set position on channel 30/18/34	
			0 - 255	Prism indexing	proportional
				Prism rotation - set position on channel 30/18/34	
			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
32	**20**	**36**		**Prism 2 (6-facet circular)**	
			0 - 19	Open position - hole (0=default)	step
			20-127	Rotating prism inserted	step
				Prism 2/gobo macros	
				The following channels are blocked: Prism 2, Prism 2 rotation, Rotating gobo wheel, Rot. Gobo indexing and rotation.	
			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

Mode/channel			DMX Value	Function	Type of control
1	2	3			
			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
33	**21**	**37**		**Prism 2 rotation**	
			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
34	**22**	**38**		**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	
			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
			170-255	Open	step
35	**23**	**39**		**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
36	*	**40**		**Iris - fine**	
			0 - 255	Fine iris movement (0=default)	proportional
37	**24**	**41**		**Zoom**	
			0 - 255	Zoom from max. to min.beam angle (128=default)	proportional
38	*	**42**		**Zoom - fine**	
			0-255	Fine zooming (0=default)	proportional
39	**25**	**43**		**Focus**	
			0 - 255	Continuous adjustment from far to near (128=default)	proportional
40	*	**44**		**Focus - fine**	
			0- 255	Fine focusing (0=default)	proportional

Mode/channel			DMX Value	Function	Type of control
1	2	3			
41	**26**	**45**		**Framing shutters module rotation**	
			0-127	Rotation from right (0°) to 60°	proportional
			128	Center (128=default)	step
			129-255	Rotation from 60° to left (120°)	proportional
42	**27**	**46**		**Framing shutter 1- movement**	
			0-255	Movement from Outward to Inward (0=default)	proportional
43	**28**	**47**		**Framing shutter 1- swivelling**	
			0-127	Swivelling towards 0 degrees	proportional
			128	0 degrees (128=default)	step
			129-255	Swivelling from 0 degrees	proportional
44	**29**	**48**		**Framing shutter 2- movement**	
			0-255	Movement from Outward to Inward (0=default)	proportional
45	**30**	**49**		**Framing shutter 2- swivelling**	
			0-127	Swivelling towards 0 degrees	proportional
			128	0 degrees (128=default)	step
			129-255	Swivelling from 0 degrees	proportional
46	**31**	**50**		**Framing shutter 3 movement**	
			0-255	Movement from Outward to Inward (0=default)	proportional
47	**32**	**51**		**Framing shutter 3- swivelling**	
			0-127	Swivelling towards 0 degrees	proportional
			128	0 degrees (128=default)	step
			129-255	Swivelling from 0 degrees	proportional
48	**33**	**52**		**Framing shutter 4 movement**	
			0-255	Movement from Outward to Inward (0=default)	proportional
49	**34**	**53**		**Framing shutter 4- swivelling**	
			0-127	Swivelling towards 0 degrees	proportional
			128	0 degrees (128=default)	step
			129-255	Swivelling from 0 degrees	proportional
50	**35**	**54**		**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
51	**36**	**55**		**Dimmer intensity**	
			0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
52	*****	**56**		**Dimmer intensity - fine**	
			0 - 255	Fine dimming (0=default)	proportional

Colour macros on Virtual Colour Wheel					
Colour name	**Red** DMX	**Green** DMX	**Blue** DMX	**Amber** DMX	**Light Green** DMX
Filter 4 (Medium Bastard Amber)	255	47	7	255	87
Filter 10 (Medium Yellow)	255	65	0	255	132
Filter 19 (Fire)	255	0	0	186	1
Filter 26 (Bright Red)	255	0	0	25	0
Filter 58 (Lavender)	255	0	68	255	44
Filter 68 (Sky Blue)	132	190	159	0	36
Filter 71 (Tokyo Blue)	0	0	255	0	0
Filter 79 (Just Blue)	123	147	171	0	56
Filter 88 (Lime Green)	255	237	2	198	185
Filter 90 (Dark Yellow Green)	0	255	2	0	169
Filter 100 (Spring Yellow)	255	0	0	255	223
Filter 101 (Yellow)	255	0	0	255	157
Filter 102 (Light Amber)	255	142	4	255	90
Filter 103 (Straw)	255	138	4	255	97
Filter 104 (Deep Amber)	255	0	0	255	124
Filter 105 (Orange)	255	0	0	255	60
Filter 106 (Primary Red)	255	0	0	104	0
Filter 111 (Dark Pink)	255	0	11	255	59
Filter 115 (Peacock Blue)	0	255	31	0	72
Filter 116 (Medium Blue-Green)	0	255	20	0	63
Filter 117 (Steel Blue)	45	255	42	158	225
Filter 118 (Light Blue)	4	255	37	0	77
Filter 119 (Dark Blue)	0	165	118	0	0
Filter 120 (Deep Blue)	3	165	111	0	0
Filter 121 (Filter Green)	84	255	0	235	24
Filter 128 (Bright Pink)	255	0	10	127	0
Filter 131 (Marine Blue)	0	255	75	51	116
Filter 132 (Medium Blue)	0	255	102	0	42
Filter 134 (Golden Amber)	255	51	0	255	42
Filter 135 (Deep Golden Amber)	255	35	0	255	0
Filter 136 (Pale Lavender)	184	7	51	255	60
Filter 137 (Special Lavender)	231	63	43	255	99
Filter 138 (Pale Green)	255	224	6	255	200
Filter 139 (Primary Green)	0	255	0	0	84
Filter 141 (Bright Blue)	0	255	77	0	82
Filter 147 (Apricot)	255	0	4	255	115
Filter 148 (Bright Rose)	255	0	7	255	13
Filter 152 (Pale Gold)	255	0	11	255	112
Filter 154 (Pale Rose)	255	0	16	255	119
Filter 157 (Pink)	255	0	7	255	27
Filter 158 (Deep Orange)	255	0	0	255	30
Filter 162 (Bastard Amber)	255	175	7	255	50
Filter 164 (Flame Red)	255	0	0	142	0
Filter 165 (Daylight Blue)	12	255	158	3	156
Filter 169 (Lilac Tint)	255	12	27	255	61
Filter 170 (Deep Lavender)	255	0	65	255	90

Colour name	**Red** DMX	**Green** DMX	**Blue** DMX	**Amber** DMX	**Light Green** DMX
Filter 172 (Lagoon Blue)	0	238	113	0	255
Filter 179 (Chrome Orange)	255	0	0	255	112
Filter 180 (Dark Lavender)	92	15	188	76	46
Filter 181 (Congo Blue)	185	0	214	0	0
Filter 197 (Alice Blue)	0	249	163	39	0
Filter 201 (Full C.T. Blue)	38	150	97	36	246
Filter 202 (Half C.T. Blue)	164	13	123	34	255
Filter 203 (Quarter C.T. Blue)	255	203	54	104	255
Filter 204 (Full C.T. Orange)	255	125	0	255	14
Filter 205 (Half C.T. Orange)	255	139	5	255	67
Filter 206 (Quarter C.T. Orange)	255	60	17	255	105
Filter 247 (Filter Minus Green)	255	28	36	255	56
Filter 248 (Half Minus Green)	255	20	45	255	200
Filter 281 (Three Quarter C.T. Blue)	38	255	102	136	227
Filter 285 (Three Quarter C.T. Orange)	255	0	0	255	121
Filter 352 (Glacier Blue)	16	255	119	5	149
Filter 353 (Lighter Blue)	14	255	66	0	157
Filter 715 (Cabana Blue)	0	222	182	0	0
Filter 778 (Millennium Gold)	255	0	0	255	37
Filter 793 (Vanity Fair)	255	0	26	171	0