

Robin T3 Profile™/Robin Profile FS™ - DMX protocol					
Version: 1.7 Mode 1-CMY/RGB, Mode 2 -Reduced CMY/RGB, Mode 3-Five colours (R,G,B,A,Lime)					
Mode 4-Enhanced gobo control					
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	10	LED frequency selection
8	*	8	8	128	LED frequency fine adjusting
9	7	9	9	0	Colour functions
10	8	10	10	0	CRI selection
11	*	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	12	255	Red (8 bit)
*	*	13	13	255	Red (16bit)
*	*	14	14	255	Green (8 bit)
*	*	15	15	255	Green (16bit)
*	*	16	16	255	Blue (8 bit)
*	*	17	17	255	Blue (16bit)
*	*	18	18	255	Amber (8 bit)
*	*	19	19	255	Amber (16bit)
*	*	20	20	255	Lime (8 bit)
*	*	21	21	255	Lime (16bit)
18	12	22	22	100	CTC
19	*	23	23	128	Green correction
20	*	24	24	0	Colour mix control
21	*	25	25	0	Speed of Static/Rot. Gobo selection
22	*	26	26	0	Framing shutters/Zoom/Focus/Iris/Frost/Prism time
23	13	27	27	0	Effect wheel positioning
24	14	28	28	128	Effect wheel rotation
25	*	29	29	0	Effect wheel animations
26	15	30	30	0	Static gobo wheel
27	16	31	31	0	Rotating gobo wheel
*	*	*	32	0	Rotating gobo wheel-fine positioning
28	17	32	33	128	Rot. gobo indexing and rotation
29	*	33	34	0	Rot. gobo indexing/rotation - fine
30	18	34	35	0	Prism 1 (6-facet linear prism)
31	19	35	36	128	Prism 1 rotation
32	20	36	37	0	Prism 2 (6-facet circular prism)

DMX protocol

Mode/channel				Default DMX Value	Function	
1	2	3	4			
33	21	37	38	128	Prism 2 rotation	
34	22	38	39	0	Frost	
35	23	39	40	0	Iris	
36	*	40	41	0	Iris - fine	
37	24	41	42	128	Zoom	
38	*	42	43	0	Zoom - fine	
39	25	43	44	128	Focus	
40	*	44	45	0	Focus - fine	
41	26	45	46	128	Framing shutters module rotation	
42	27	46	47	0	Framing shutter 1- movement	
43	28	47	48	128	Framing shutter 1- swivelling	
44	29	48	49	0	Framing shutter 2- movement	
45	30	49	50	128	Framing shutter 2- swivelling	
46	31	50	51	0	Framing shutter 3 movement	
47	32	51	52	128	Framing shutter 3- swivelling	
48	33	52	53	0	Framing shutter 4 movement	
49	34	53	54	128	Framing shutter 4- swivelling	
50	35	54	55	32	Shutter/ strobe	
51	36	55	56	0	Dimmer intensity	
52	37	56	57	0	Dimmer intensity - fine	
Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
1	1	1	1		Pan	
				0 - 255	Pan movement by 540° (128=default)	proportional
2	2	2	2		Pan Fine	
				0 - 255	Fine control of pan movement (0=default)	proportional
3	3	3	3		Tilt	
				0 - 255	Tilt movement by 270° (128=default)	proportional
4	4	4	4		Tilt fine	
				0 - 255	Fine control of tilt movement (0=default)	proportional
5	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	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, Dimmer Curve: Square law	
				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 50/35/54/55 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden.	

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				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	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
				90-94	Fans mode: Convection Passive Cooling (CPC) - Fans off	step
				95-96	High-power mode: On	step
				97-98	High power mode: Off	step
				99-119	Reserved	
				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 - 151	Static Pan/Tilt reset: On** (default setting in the fixture)	step
				152 - 153	Static Pan/Tilt reset: Off**	step
					<i>** Set option will be saved to the fixture.</i>	
				154 - 155	Calibrate Pan/Tilt reset	step
				156 - 159	Reserved	
				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 - 211	Green/Blue correction calibration	step
				212 - 218	Reserved	
					The following three commands define transition from gobo rotation to gobo indexing:	
				219 - 220	Gobo indexing: Maximum speed and shortcut	step
				221 - 222	Gobo indexing: Follow speed and direction	step
				223 - 224	Gobo indexing: Maximum speed and follow direction	step
					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

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				241 - 255	Quiet mode - fan noise control from min. to max.	proportional
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
				25-29	High	step
				30-255	Reserved (fixture utilizes PWM frequency set in the display menu item Frequency Setup).	
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
				:		
				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	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
					<i>To activate following functions, stop in DMX value for at least 3 seconds. Corresponding menu items are temporarily overridden</i>	
				1-29	Reserved	
				30-34	Standard CTC range (8000 K-2700 K)	step
				35-39	Extended CTC range (10000 K-1800 K)	step
				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 and 4)	step

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				50-54	Dimmer curve: Square law	step
				55-59	Dimmer curve: Linear	step
				60-64	Dimmer curve: Super square law	step
				65-79	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
				145-152	Reserved	
					Activate the Green/Blue correction by the command "Green/Blue correction calibration" on the channel "Power/Special functions". Select desired colour temperature below and set green/blue correction using the "Green correction" channel and the "CTC" channel. After setting corrections, use command "Save Green/Blue correction".	
				153-154	Green/Blue correction - 1800K/High Intensity	step
				155-156	Green/Blue correction - 2700K/High Intensity	step
				157-158	Green/Blue correction - 3200K/High Intensity	step
				159-160	Green/Blue correction - 4200K/High Intensity	step
				161-162	Green/Blue correction - 5600K/High Intensity	step
				163-164	Green/Blue correction - 8000K/High Intensity	step
				165-166	Green/Blue correction - 10000K/High Intensity	step
				167-168	Green/Blue correction - 1800K/High CRI	step
				169-170	Green/Blue correction - 2700K/High CRI	step
				171-172	Green/Blue correction - 3200K/High CRI	step
				173-174	Green/Blue correction - 4200K/High CRI	step
				175-176	Green/Blue correction - 5600K/High CRI	step
				177-178	Green/Blue correction - 8000K/High CRI	step
				179-180	Green/Blue correction - 10000K/High CRI	step
				181-182	Save Green/Blue correction	step
				183-255	Reserved	
10	8	10	10		CRI selection	
				0-255	CRI selection from Standard (80) to High (90+) (0=default)	proportional
11	*	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

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				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
				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

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				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
					<i>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.</i>	
				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
				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

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				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
				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

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				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	12		Red (8 bit)	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	13	13		Red (16bit)	
				0 - 255	Colour saturation control - fine (255=default)	proportional
*	*	14	14		Green (8 bit)	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	15	15		Green (16bit)	
				0 - 255	Colour saturation control - fine (255=default)	proportional
*	*	16	16		Blue (8 bit)	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	17	17		Blue (16bit)	
				0 - 255	Colour saturation control - fine (255=default)	proportional
*	*	18	18		Amber (8 bit)	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	19	19		Amber (16bit)	
				0 - 255	Colour saturation control - fine (255=default)	proportional
*	*	20	20		Lime (8 bit)	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	21	21		Lime (16bit)	
				0 - 255	colour saturation control - fine (255=default)	proportional
18	12	22	22		CTC	
					<u>Standard CTC range (8000 K-2700 K)</u>	
				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 6578 K ->5622 K (22 K/1 DMX)	proportional
				110	5600 K	step

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				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
					<u>Extended CTC range (10000 K-1800 K)</u>	
					<i>Extended CTC range is a default setting in the display menu</i>	
				0	10 000 K	step
				1-39	Colour temperature changing 9950 K ->8050 K (50 K /1 DMX)	proportional
				40	8000 K	step
				41-99	Colour temperature changing 7960 K ->5640 K (40 K/1 DMX)	proportional
				100	5600 K (100=default)	step
				101-149	Colour temperature changing 5572 K ->4228 K (28 K/1 DMX)	proportional
				150	4200 K	step
				151-189	Colour temperature changing 4175 K ->3225 K (25 K/1 DMX)	proportional
				190	3200 K	step
				191-209	Colour temperature changing 3175 K ->2725 K (25K /1 DMX)	proportional
				210	2700K	step
				211-254	Colour temperature changing 2680 K ->1820 K (20K /1 DMX)	proportional
				255	1800K	step
19	*	23	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	24		Colour mix control	
					<i>Defines relation between Virtual Colour wheel and colour channels</i>	
					"Virtual" = Virtual Colour Wheel	
					"Colour mix" = Colour channels (CMY/RGBAL/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	25		Speed of Static/Rotation Gobo selection	
				0-255	Speed of static/ rot. gobo selection from max. to min. (0=default)	proportional
22	*	26	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

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				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	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
24	14	28	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	29		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 7 m from screen with zoom=188 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, Rotating gobo wheel, Rot. Gobo indexing and rotation, Static gobo wheel.</i>	
				8-9	Macro 1 (Focus=136)	step
				10-11	Macro 2 (Focus=136)	step
				12-13	Macro 3 (Focus=177)	step
				14-15	Macro 4 (Focus=177)	step
				16-17	Macro 5 (Focus=177)	step
				18-19	Macro 6 (Focus=130)	step
				20-21	Macro 7 (Focus=130)	step
				22-23	Macro 8 (Focus=143)	step
				24-25	Macro 9 (Focus=143)	step
				26-27	Macro 10 (Focus=203)	step
				28-255	Reserved	
26	15	30	30		Static gobo wheel	
				0-7	Open/hole (0=default)	step
					<u>Positioning</u>	
				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
					<u>Shaking gobos from slow to fast</u>	
				104-115	Gobo 1	proportional
				116-127	Gobo 2	proportional
				128-139	Gobo 3	proportional

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				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
					(Set microphone sensitivity in menu „Personality“)	
				250 - 255	Auto random gobo selection from fast to slow	proportional
27	16	31	*		Rotating gobo wheel	
					<i>Index - set indexing on channel 28/17/32</i>	
				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
					<i>Rotation - set rotation on channel 28/17/32</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
					<u>Shaking gobos from slow to fast</u>	
					<i>Index - set indexing on channel 28/26/32</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
					<u>Shaking gobos from slow to fast</u>	
					<i>Rotation - set rotation on channel 28/17/32</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 - 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“)	

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				250 - 255	Auto random gobo selection from fast to slow	proportional
*	*	*	31		Rotating gobo wheel	
					<i>Index - set indexing on channel 33</i>	
				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
					<i>Rotation - set rotation on channel 32</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
					Continual positioning	
					<i>Index - set indexing on channel 32</i>	
				60	Open/hole	proportional
				70	Gobo 1	proportional
				80	Gobo 2	proportional
				90	Gobo 3	proportional
				100	Gobo 4	proportional
				110	Gobo 5	proportional
				120	Gobo 6	proportional
				130	Open/hole	proportional
					Continual positioning	
					<i>Rotation - set rotation on channel 32</i>	
				131	Open/hole	proportional
				141	Gobo 1	proportional
				151	Gobo 2	proportional
				161	Gobo 3	proportional
				171	Gobo 4	proportional
				181	Gobo 5	proportional
				191	Gobo 6	proportional
				201	Open/hole	proportional
				191	Gobo 6	proportional
				201	Open/hole	proportional
				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
*	*	*	32		Rotating gobo wheel - fine positioning	
				0 - 255	Fine positioning (0=default)	proportional
28	17	32	33		Rot. gobo indexing and rotation	
					<i>Gobo indexing - set position on channel 27/16/31/31</i>	

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				0 - 255	Gobo indexing	proportional
					<i>Gobo rotation - set position on channel 27/16/31/31</i>	
				0	No rotation	step
				1 - 127	Gobo rotation from fast to slow - CW (clockwise)***	proportional
				128	No rotation (128=default)	step
				129 - 255	Gobo rotation from slow to fast - CCW (counterclockwise)***	proportional
29	*	33	34		Rot. gobo indexing/rotation - fine	
				0-255	Fine indexing/rotation (0=default)	proportional
30	18	34	35		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	
					<i>The following channels are blocked: Prism 1, Prism 1 indexing/rotation, Rotating gobo wheel, Rot. Gobo indexing and 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
31	19	35	36		Prism 1 indexing/rotation	
					<i>Prism indexing - set position on channel 30/18/34/35</i>	
				0 - 255	Prism indexing	proportional
					<i>Prism rotation - set position on channel 30/18/34/35</i>	
				0	No rotation	step
				1 - 127	Prism rotation from fast to slow - CW (clockwise)***	proportional
				128	No rotation (128=default)	step
				129-255	Prism rotation from slow to fast - CCW (counterclockwise)***	proportional
32	20	36	37		Prism 2 (6-facet circular)	
				0 - 19	Open position - hole (0=default)	step
				20-127	Rotating prism inserted	step
					Prism 2/gobo macros	
					<i>The following channels are blocked: Prism 2, Prism 2 rotation, Rotating gobo wheel, Rot. Gobo indexing and rotation.</i>	
				128 - 135	Macro 1	step
				136 - 143	Macro 2	step
				144 - 151	Macro 3	step
				152 - 159	Macro 4	step

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				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
33	21	37	38		Prism 2 rotation	
				0	No rotation	step
				1 - 127	Prism rotation from fast to slow - CW (clockwise)***	proportional
				128	No rotation (128=default)	step
				129-255	Prism rotation from slow to fast - CCW (counterclockwise)***	proportional
34	22	38	39		Frost	
				0	Open position (0=default)	step
				1-19	Frost 0° -> 0.5°	proportional
				20	Frost 0.5°	step
				21-33	Frost 0.5° -> 1°	proportional
				34	Frost 1°	step
				35-48	Frost 1° ->1.5°	proportional
				49	Frost 1.5°	step
				50-62	Frost 1.5° -> 3°	proportional
				63	Frost 3°	step
				64-78	Frost 3° ->5°	proportional
				79	Frost 5°	step
				80-95	Frost 5° ->8.5°	proportional
				96	Frost 8.5°	step
				97-111	Frost 8.5° -> 15°	proportional
				112	Frost 15°	step
				113-120	Reserved	
				121-130	Frost wheel 1 rotation from fast to slow - CW (clockwise)***	proportional
				131-140	Frost wheel 1 rotation from slow to fast- CCW(counterclockwise)***	proportional
				141-150	Frost wheel 2 rotation from fast to slow - CW (clockwise)***	proportional
				151-160	Frost wheel 2 rotation from slow to fast- CCW(counterclockwise)***	proportional
				161-170	Frost 1+Frost 2 wheels rotation together from fast to slow - CW (clockwise)	proportional
				171-180	Frost 1+Frost 2 wheels rotation together from slow to fast- CCW (counterclockwise)***	proportional
				181-190	Frost 1+Frost 2 wheels rotation against each other from fast to slow	proportional
				191-200	Frost 1+Frost 2 wheels rotation against each other (frost wheel 1 from fast to slow, frost wheel 2 from slow to fast)	proportional
				201-255	Reserved	
35	23	39	40		Iris	
				0	Open (0=default)	step
				1 - 179	From max.diameter to min.diameter	proportional

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				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	41		Iris - fine	
				0 - 255	Fine iris movement (0=default)	proportional
37	24	41	42		Zoom	
				0 - 255	Zoom from max. to min.beam angle (128=default)	proportional
38	*	42	43		Zoom - fine	
				0-255	Fine zooming (0=default)	proportional
39	25	43	44		Focus	
				0 - 255	Continuous adjustment from far to near (128=default)	proportional
40	*	44	45		Focus - fine	
				0- 255	Fine focusing (0=default)	proportional
41	26	45	46		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	47		Framing shutter 1- movement	
				0-255	Movement from Outward to Inward (0=default)	proportional
43	28	47	48		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	49		Framing shutter 2- movement	
				0-255	Movement from Outward to Inward (0=default)	proportional
45	30	49	50		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	51		Framing shutter 3 movement	
				0-255	Movement from Outward to Inward (0=default)	proportional
47	32	51	52		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	53		Framing shutter 4 movement	
				0-255	Movement from Outward to Inward (0=default)	proportional
49	34	53	54		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	55		Shutter/ strobe	
				0 - 31	Shutter closed	step

DMX protocol

Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				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	56		Dimmer intensity	
				0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
52	37	56	57		Dimmer intensity - fine	
				0 - 255	Fine dimming (0=default)	proportional
*** CW and CCW rotation is determined from the perspective of the fixture's mounting point, looking along the projected beam's direction						
Copyright © 2025-2026 Robe Lighting s.r.o. - All rights reserved						
All Specifications subject to change without notice						