

DMX protocol

ROBIN T.5 Profile - DMX protocol

Version: 1.6 Mode 1-CMY/RGB, Mode 2 -Reduced CMY/RGB, Mode 3-Five colours (R,G,B,A,Lime)

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)
13	*	*	0/255	Cyan/Red (16 bit)
14	10	*	0/255	Magenta/Green (8 bit)
15	*	*	0/255	Magenta/Green (16 bit)
16	11	*	0/255	Yellow/Blue (8 bit)
17	*	*	0/255	Yellow/Blue (16 bit)
*	*	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	Lime (8 bit)
*	*	21	255	Lime (16bit)
18	12	22	110	CTC
19	*	23	128	Green correction
20	*	24	0	Colour mix control
21	*	25	0	Speed of rot. Gobo selection
22	*	26	0	Rot. Gobo carousel/ 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	Rotating gobo wheel
27	16	31	128	Rot. gobo indexing and rotation
28	*	32	0	Rot. gobo indexing/rotation - fine
29	17	33	0	Prism
30	18	34	128	Prism indexing/rotation
31	19	35	0	Frost
32	20	36	0	Iris

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Mode/channel			Default DMX Value	Function	
1	2	3			
33	*	37	0	Iris - fine	
34	21	38	128	Zoom	
35	*	39	0	Zoom - fine	
36	22	40	128	Focus	
37	*	41	0	Focus - fine	
38	23	42	128	Framing shutters module rotation	
39	24	43	0	Framing shutter 1- movement	
40	25	44	128	Framing shutter 1- swivelling	
41	26	45	0	Framing shutter 2- movement	
42	27	46	128	Framing shutter 2- swivelling	
43	28	47	0	Framing shutter 3 movement	
44	29	48	128	Framing shutter 3- swivelling	
45	30	49	0	Framing shutter 4 movement	
46	31	50	128	Framing shutter 4- swivelling	
47	32	51	32	Shutter/ strobe	
48	33	52	0	Dimmer intensity	
49	*	53	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 265° (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)	
				<i>To activate following functions, stop in DMX value for at least 3 s and shutter must be closed at least 3 sec. („Shutter,Strobe“ channel 47/32/51 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden.</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	

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Mode/channel			DMX Value	Function	Type of control
1	2	3			
			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
			95-119	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 - 159	Reserved	step
			160 - 169	Gobo wheel/effect wheel reset	step
			170 - 171	Calibrate Pan/Tilt reset	step
			172 - 179	Reserved	
			180 - 189	Zoom/focus/frost/prism reset	step
			190 - 199	Iris /framing shutters reset	step
			200 - 209	Total fixture reset	step
			210 - 211	Green/Blue correction calibration	step
			212 - 213	Cue Playback - saving current DMX values	step
			214 - 215	Preset Cue playback On - fixture plays the Cue automatically after every switching On	step
			216 - 217	Preset Cue playback Off - fixture listens to DMX, but only this channel and DMX values 216-217	step
			218	Reserved	
				The following three commands define transition from gobo rotation to gobo indexing:	
			219 - 220	Maximum speed and shortcut	step
			221 - 222	Follow speed and direction	step
			223 - 224	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
			241 - 255	Quiet mode - fan noise control from min. to max.	proportional
7	*	7		LED frequency selection	
				Factory display menu setting: 600Hz	

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Mode/channel			DMX Value	Function	Type of control
1	2	3			
				<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		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		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) <i>To activate following functions, stop in DMX value for at least 3 seconds. Corresponding menu items are temporarily overridden</i>	step
			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 only)	step
			50-54	Dimmer curve: Square law	step
			55-59	Dimmer curve: Linear	step
			60-79	Raw DMX	proportional
				<i>Tungsten effect simulation for whites 2700K-4200K only:</i>	
			80-84	Tungsten effect simulation (750W/80V): On	step
			85-89	Tungsten effect simulation (1000W/240V): On	step

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

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

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

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

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Mode/channel			DMX Value	Function	Type of control
1	2	3			
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		Lime (8 bit)	
			0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	21		Lime (16bit)	
			0 - 255	colour saturation control - fine (255=default)	proportional
18	12	22		CTC	
				<u>Standard CTC range (8000 K-2700 K)</u>	
				<i>Standard CTC range is a default setting in the display menu</i>	
			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
			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

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Mode/channel			DMX Value	Function	Type of control
1	2	3			
				<i>Extended CTC range (10000 K-1800 K)</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		Green correction	
			0	Uncorrected white	step
			1-127	Minus green --> uncorrected white	proportional
			128	Uncorrected white (128=default)	step
			129-254	Uncorrected white --> Plus green	proportional
			255	Uncorrected white	step
20	*	24		Colour mix control	
				<i>Defines relation between Virtual Colour wheel and colour channels</i>	
				"Virtual" = Virtual Colour Wheel	
				"Colour mix" = Colour channels (CMY/RGBALime/CTO)	
			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 rot. Gobo selection	
			0-255	Speed of 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

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Mode/channel			DMX Value	Function	Type of control
1	2	3			
			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		Effect wheel rotation	
			0	No rotation	step
			1 - 127	Eff. Wheel rotation from fast to slow CCW (counterclockwise)**	proportional
			128	No rotation (128=default)	step
			129 - 255	Eff. Wheel rotation from slow to fast - CW (clockwise)**	proportional
25	*	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 5 m from screen with zoom=88 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.</i>	
			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		Rotating gobo wheel	
				<i>Index - set indexing on channel 27/16/31</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 27/16/31</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><i>Shaking gobos from slow to fast</i></u>	
				<i>Index - set indexing on channel 27/16/31</i>	
			60 - 69	Gobo 1	proportional

DMX protocol

Mode/channel			DMX Value	Function	Type of control
1	2	3			
			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
				<i>Shaking gobos from slow to fast</i>	
				<i>Rotation - set rotation on channel 27/16/31</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	16	31		Rot. gobo indexing and rotation	
				<i>Gobo indexing - set position on channel 26/15/30</i>	
			0 - 255	Gobo indexing (128=default)	proportional
				<i>Gobo rotation - set position on channel 26/15/30</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
28	*	32		Rot. gobo indexing/rotation - fine	
			0-255	Fine indexing/rotation (0=default)	proportional
29	17	33		Prism (6-facet 8°)	
			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, 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

DMX protocol

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
30	18	34		Prism indexing/rotation	
				<i>Prism indexing - set position on channel 29/17/33</i>	
			0 - 255	Prism indexing	proportional
				<i>Prism rotation - set position on channel 29/17/33</i>	
			0	No rotation	step
			1 - 127	Prism rotation from fast to slow - CCW (counterclockwise)**	proportional
			128	No rotation (128=default)	step
			129-255	Prism rotation from slow to fast - CW (clockwise)**	proportional
31	19	35		Frost	
			0	Open (0=default)	step
				<i>Light Frost</i>	
			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
				<i>Medium Frost</i>	
			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
				<i>Combined Frost</i>	
			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	20	36		Iris	
			0	Open (0=default)	step
			1 - 179	From max.diameter to min.diameter	proportional
			180 - 191	Closed	step
				<i>Pulse effects with Iris blackout</i>	
			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	*	37		Iris - fine	

DMX protocol

Mode/channel			DMX Value	Function	Type of control
1	2	3			
			0 - 255	Fine iris movement (0=default)	proportional
34	21	38		Zoom	
			0 - 255	Zoom from max. to min.beam angle (128=default)	proportional
35	*	39		Zoom - fine	
			0-255	Fine zooming (0=default)	proportional
36	22	40		Focus	
			0 - 255	Continuous adjustment from far to near (128=default)	proportional
37	*	41		Focus - fine	
			0- 255	Fine focusing (0=default)	proportional
38	23	42		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
39	24	43		Framing shutter 1- movement	
			0-255	Movement from Outward to Inward (0=default)	proportional
40	25	44		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	26	45		Framing shutter 2- movement	
			0-255	Movement from Outward to Inward (0=default)	proportional
42	27	46		Framing shutter 2- 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
43	28	47		Framing shutter 3 movement	
			0-255	Movement from Outward to Inward (0=default)	proportional
44	29	48		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	30	49		Framing shutter 4 movement	
			0-255	Movement from Outward to Inward (0=default)	proportional
46	31	50		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	32	51		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	33	52		Dimmer intensity	

DMX protocol

Mode/channel			DMX Value	Function	Type of control
1	2	3			
			0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
49	*	53		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					
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