Robin iESPRITE®LTL WB/ROBIN iESPRITE®LTL FS - DMX protocol

Version: 1.1 Mode 1 - Standard 16 bit

Quick overview of default DMX values for each channel

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

Mode/channel 1	Default DMX Value	Function
44	128	Framing shutter 1- swivelling
45	0	Framing shutter 2- movement
46	128	Framing shutter 2- swivelling
47	0	Framing shutter 3 movement
48	128	Framing shutter 3- swivelling
49	0	Framing shutter 4 movement
50	128	Framing shutter 4- swivelling
51	32	Shutter/ strobe
52	0	Dimmer intensity
53	0	Dimmer intensity - fine

Mode/channel 1	DMX Value	Function	Type of control
1		**Pan**	
	0 - 255	Pan movement by 540° (128=default)	proportional
2		**Pan Fine**	
	0 - 255	Fine control of pan movement (0=default)	proportional
3		**Tilt**	
	0 - 255	Tilt movement by 265° (128=default)	proportional
4		**Tilt fine**	
	0 - 255	Fine control of tilt movement (0=default)	proportional
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		**Power/Special functions**	
		Factory display menu setting: DMX Input-Wired ,Graphic display-On, Pan/tilt Mode-Speed,Blackout while pan/tilt moving-Off, Blackout while gobo wheels moving-Off,Blackout while colour wheels moving-Off, Fans mode-Auto, High-power mode - Off, Focus Tracking- Off, Gobo transition - Maximum speed and shortcut.	
	0 -5	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. (Channel „Shutter/ Strobe" 51 must be at range: 0-31 DMX). Corresponding menu items are temporarily overwritten.	
	6	Standby mode: On (fixture effects are deactivated, light output is closed)	step
	7	Standby mode: Off	step
	8	Pressure test: On (fixture does not respond to DMX during the test except value 9 (Pressure test Off))	step
	9	Pressure test: Off	step
	10-14	DMX input: Wired DMX *	step
	15-19	DMX input: Wireless DMX *	step

Mode/channel 1	DMX Value	Function	Type of control
		* function is active only 10 seconds after switching the fixture on	
	20-24	Graphic display: On	step
	25-29	Graphic display: Off	step
	30-31	Quiet mode: Fans On at blackout	step
	32-33	Quiet mode: Fans Off at blackout	step
	34-35	Dimmer curve: Super Square Law	step
	36-39	Reserved	
	40-44	Pan/Tilt mode: Speed	step
	45-49	Pan/Tilt mode: Time	step
	50-54	Blackout while pan/tilt moving: On	step
	55-59	Blackout while pan/tilt moving: Off	step
	60-64	Blackout while gobo wheels moving: On	step
	65-69	Blackout while gobo wheels moving: Off	step
	70-74	Blackout while colour wheels moving: On	step
	75-79	Blackout while colour wheels moving: Off	step
	80-84	Fans mode: Auto	step
	85-89	Fans mode: High	step
	90-99	Reserved	
	100-104	Focus Tracking: On	step
	105-109	Focus Tracking: Off	step
	110-114	Dimmer curve: Square law	step
	115-119	Dimmer curve: Linear	step
	120-124	Parking position: On	step
	125-129	Parking position: Off	step
		To activate following functions, stop in DMX value for at least 3 seconds.	
	130 - 139	Total fixture reset (without pan/tilt)	step
	140 - 149	Pan and Tilt reset	step
	150 - 159	Colour system reset	step
	160 - 169	Gobo wheels/effect wheel reset	step
	170-174	Pan reset	step
	175-179	Tilt reset	step
	180 - 189	Zoom/focus/frost/prisms reset	step
	190 - 199	Iris /framing shutters reset	step
	200 - 209	Total fixture reset (including pan/tilt)	step
	210 - 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
	241 - 255	Quiet mode - fan noise control from min. to max.	proportional
7		**LED frequency selection**	

Mode/channel 1	DMX Value	Function	Type of control
		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 overridden.	
	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).	
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		**Max. light intensity indication and setting**	
	0-10	No function (0=default)	
	11-20	Indication of drop of max. light intensity	step
		A drop of max. light intensity of the fixture (compared to its original intensity) is indicated by a corresponding colour output: *0-5%, (WHITE /new LED module/)* *6-10% (RED)* *11-15% (GREEN)* *16-20% (BLUE)* *21-25% (CYAN)* *26-30% (MAGENTA)* *31-35% (YELLOW)* *36-40% (ORANGE)* *Pan/tilt/zoom is set at 128 DMX (50%), Dimmer is open at 255 DMX (100%).*	

Mode/channel 1	DMX Value	Function	Type of control
		To set a drop of max. light intensity (compared to original light intensity), stay at DMX value for at least 3 sec. and shutter must be closed at least 3 sec. (Channel „Shutter/ Strobe" 47/41 must be at range: 0-31 DMX). Corresponding menu items are permanently overwritten.	
	21-30	Set drop by 6-10% (RED)	step
	31-40	Set drop by 11-15% (GREEN)	step
	41-50	Set Drop by 16-20% (BLUE)	step
	51-60	Set drop by 21-25% (CYAN)	step
	61-70	Set drop by 26-30% (MAGENTA)	step
	71-80	Set drop by 31-35% (YELLOW)	step
	81-90	Set drop by 36-40% (ORANGE)	step
	91-100	Original intensity (WHITE)	step
	101-255	Reserved	
10		**Colour wheel 1**	
		Continual positioning	
	0	Open/white (0=default)	proportional
	21	Deep red	proportional
	43	Deep blue	proportional
	64	Orange	proportional
	86	Green	proportional
	107	Congo blue	proportional
	128-129	Open/White	step
		Positioning	
	130-141	Deep red	step
	142-153	Deep blue	step
	154-165	Orange	step
	166-177	Green	step
	178-189	Congo blue	step
	190 - 215	Forwards rainbow effect from fast to slow	proportional
	216 - 217	No rotation	step
	218 - 243	Backwards rainbow effect from slow to fast	proportional
	244 - 249	Reserved	
	250 - 255	Auto random colour selection from fast to slow	proportional
11		**Colour wheel 1 - fine positioning**	
	0 - 255	Fine positioning (0=default)	proportional
12		**Colour wheel 2**	
		Continual positioning	
	0	Open/white (0=default)	proportional
	21	Multicolour	proportional
	43	Laser green	proportional
	64	Lavender	proportional
	86	Filter CRI 80	proportional
	107	Filter CRI 90	proportional
	128-129	Open/White	step
		Positioning	
	130-141	Multicolour	step
	142-153	Laser green	step
	154-165	Lavender	step

Mode/channel 1	DMX Value	Function	Type of control
	166-177	Filter CRI 80	step
	178-189	Filter CRI 90	step
	190 - 215	Forwards rainbow effect from fast to slow	proportional
	216 - 217	No rotation	step
	218 - 243	Backwards rainbow effect from slow to fast	proportional
	244 - 249	Reserved	
	250 - 255	Auto random colour selection from fast to slow	proportional
13		**Colour wheel 2 - fine positioning**	
	0 - 255	Fine positioning (0=default)	proportional
14		**Cyan**	
	0 - 255	Cyan from min. saturation --> full cyan (0=default)	proportional
15		**Magenta**	
	0 - 255	Magenta from min. saturation --> full magenta (0=default)	proportional
16		**Yellow**	
	0 - 255	Yellow from min. saturation --> full yellow (0=default)	proportional
17		**CTO**	
	0 - 255	CTO from 6700K --> 2700K (0=default), XP white LED engine	proportional
		CTO from 5800K --> 2200K (0=default), HCF white LED engine	proportional
18		**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
19		**Virtual colour wheel**	
		See table "Colours on Virtual Colour Wheel" to find components of each colour	
		The following channels are disabled: 9-18	
	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

Mode/channel 1	DMX Value	Function	Type of control
	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
	119-120	Filter 281 (Three Quarter C.T. Blue)	step
	121-122	Filter 285 (Three Quarter C.T. Orange)	step
	123-124	Filter 352 (Glacier Blue)	step
	125-126	Filter 353 (Lighter Blue)	step
	127-128	Filter 715 (Cabana Blue)	step
	129-130	Filter 778 (Millennium Gold)	step
	131-132	Filter 793 (Vanity Fair)	step
	133-255	Reserved	
20		**Effects Speed**	

Mode/channel 1	DMX Value	Function	Type of control
		Speed of CMY&CTO movement and Rot. Gobo/Static Gobo selection	
	0-255	Speed of CMY+CTO movement from max. to min. (0=default)	proportional
	0-255	Speed of Rot. Gobo/Stat. Gobo selection from max. to min.	proportional
21		**CMY+CTO+Colour wheels time**	
	0	Function is off (0=default)	step
	1 - 255	Time of CMY, CTO and Colour wheels movement (0.1sec-->25.5sec.)	proportional
22		**Static gobo wheel/ Framing shutters/Zoom/Focus/Iris/Frost/Prisms time**	
	0	Function is off (0=default)	step
	1-255	Time of static gobo movement (0.1 sec-->25.5 sec.)	proportional
	1 - 255	Time of framing shutters, zoom, focus, iris and frost movement (0.1 sec-->25.5 sec.)	proportional
	1-50	Time of prisms movement (0.1 sec-->5 sec.)	proportional
23		**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		**Effect wheel rotation**	
	0	No rotation	step
	1 - 127	Rotation from fast to slow - CW (clockwise)**	proportional
	128	No rotation (128=default)	step
	129 - 255	Rotation from slow to fast CCW (counterclockwise)**	proportional
25		**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=128 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,Static gobo wheel. Rotating gobo wheel, Rot. Gobo indexing and rotation, Rot. Gobo wheel fine rotation.	
	8-9	Macro 1 (Focus=162)	step
	10-11	Macro 2 (Focus=201)	step
	12-13	Macro 3 (Focus=141)	step
	14-15	Macro 4 (Focus=159)	step
	16-17	Macro 5 (Focus=168)	step
	18-19	Macro 6 (Focus=168)	step
	20-21	Macro 7 (Focus=168)	step
	22-23	Macro 8 (Focus=168)	step
	24-25	Macro 9 (Focus=147)	step
	26-27	Macro 10 (Focus=147)	step
	28-255	Reserved	
26		**Static gobo wheel**	
	0-8	Open/hole (0=default)	step
	9-17	Gobo 1	step
	18-26	Gobo 2	step
	27-35	Gobo 3	step

Mode/channel 1	DMX Value	Function	Type of control
	36-44	Gobo 4	step
	45-53	Gobo 5	step
	54-62	Gobo 6	step
	63-71	Gobo 7	step
	72-80	Gobo 8	step
	81-91	Gobo 9	step
		Shaking gobos from slow to fast	
	92-103	Gobo 1	proportional
	104-115	Gobo 2	proportional
	116-127	Gobo 3	proportional
	128-139	Gobo 4	proportional
	140-151	Gobo 5	proportional
	152-163	Gobo 6	proportional
	164-175	Gobo 7	proportional
	176-187	Gobo 8	proportional
	188-199	Gobo 9	proportional
	200 - 201	Open/hole	step
	202 - 222	Forwards gobo wheel rotation from fast to slow	proportional
	223 - 243	Backwards gobo wheel rotation from slow to fast	proportional
	244 - 249	Reserved	
	250 - 255	Auto random gobo selection from fast to slow	proportional
27		**Rotating gobo wheel**	
		Index - set indexing on channel 29	
	0-13	Open/hole (0=default)	step
	14-16	LT Follow Spot mode	step
	17-19	Gobo 1	step
	20-22	Gobo 2	step
	23-25	Gobo 3	step
	26-28	Gobo 4	step
	29-31	Gobo 5	step
	32-34	Gobo 6	step
	35-37	Gobo 7	step
		Rotation - set rotation on channel 29	
	38-40	*LT Follow Spot mode*	step
	41-43	Gobo 1	step
	44-46	Gobo 2	step
	47-49	Gobo 3	step
	50-52	Gobo 4	step
	53-55	Gobo 5	step
	56-58	Gobo 6	step
	59-61	Gobo 7	step
		Continual positioning	
		Index - set indexing on channel 29	
	62	Open/hole	proportional
	69	Gobo 1	proportional
	76	Gobo 2	proportional
	83	Gobo 3	proportional
	90	Gobo 4	proportional

Mode/channel 1	DMX Value	Function	Type of control
	97	Gobo 5	proportional
	104	Gobo 6	proportional
	111	Gobo 7	proportional
	118	Beam reducer	proportional
	125	Open/hole	proportional
		Continual positioning	
		Rotation - set rotation on channel 29	
	126	Open/hole	proportional
	133	Gobo 1	proportional
	140	Gobo 2	proportional
	147	Gobo 3	proportional
	154	Gobo 4	proportional
	161	Gobo 5	proportional
	168	Gobo 6	proportional
	175	Gobo 7	proportional
	182	Beam reducer	proportional
	189	Open/hole	proportional
	190-201	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	Reserved	
	250 - 255	Auto random gobo selection from fast to slow	proportional
28		**Rotating gobo wheel - fine positioning**	
	0 - 255	Fine positioning (0=default)	proportional
29		**Rot. gobo indexing and rotation**	
		Gobo indexing - set position on channel 27	
	0 - 255	Gobo indexing (128=default)	proportional
		Gobo rotation - set position on channel 27	
	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
30		**Rot. gobo indexing/rotation - fine**	
	0-255	Fine indexing/rotation (0=default)	proportional
31		**Prism 1 (6-facet linear)**	
	0 - 19	Open position - hole (0=default)	step
	20 - 73	Prism indexing	step
	74-127	Prism rotation	step
		Prism/gobo macros	
		The following channels are blocked: Prism 1, Prism 1 rotation, Rotating gobo wheel, Rot. Gobo wheel fine positioning, Rot. Gobo indexing and rotation, Rot. Gobo wheel fine 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

Mode/channel 1	DMX Value	Function	Type of control
	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
32		**Prism 1 indexing/rotation**	
		Prism indexing **-** *set position on channel 31*	
	0 - 255	Prism 1 indexing	proportional
		Prism rotation **-** *set position on channel 31*	
	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
33		**Prism 2 (6-facet circular)**	
	0 - 19	Open position - hole (0=default)	step
	20-127	Prism 2 rotation	step
		Prism 2 /gobo macros	
		Rot. gobo wheel, Rot. Gobo wheel fine pos., Rot. Gobo indexing and rotation, Rot. Gobo fine rot.	
	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
34		**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
35		**Frost**	
	0	Open (0=default)	step
		Light Frost	

Mode/channel 1	DMX Value	Function	Type of control
	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	Reserved	
36		**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
37		**Iris - fine**	
	0 - 255	Fine iris movement (0=default)	proportional
38		**Zoom**	
	0 - 255	Zoom from max. to min. beam angle (128=default)	proportional
39		**Zoom - fine**	
	0-255	Fine zooming (0=default)	proportional
40		**Focus**	
	0 - 255	Continuous adjustment from far to near (128=default)	proportional
41		**Focus - fine**	
	0- 255	Fine focusing (0=default)	proportional
42		**Framing shutters module rotation**	
	0-127	Rotation from right (0°) to 60°	proportional
	128	Centre (128=default)	step
	129-255	Rotation from 60° to left (120°)	proportional
43		**Framing shutter 1- movement**	
	0-255	Movement from Outward to Inward (0=default)	proportional
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
45		**Framing shutter 2- movement**	
	0-255	Movement from Outward to Inward (0=default)	proportional
46		**Framing shutter 2- swivelling**	
	0-127	Swivelling from -30 degrees towards 0 degrees	proportional

Mode/channel 1	DMX Value	Function	Type of control
	128	0 degrees (128=default)	step
	129-255	Swivelling from 0 degrees to +30 degrees	proportional
47		**Framing shutter 3 movement**	
	0-255	Movement from Outward to Inward (0=default)	proportional
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
49		**Framing shutter 4 movement**	
	0-255	Movement from Outward to Inward (0=default)	proportional
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
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
52		**Dimmer intensity**	
	0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
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 directon			
All Specifications subject to change without notice			