Robin iForte®/Robin iForte® FS - DMX protocol

Version: 1.6

Mode 1 - Standard 16 bit, Mode 2 -enhanced gobo control

Quick overview of default DMX values for each channel

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

Mode/Channel		Default DMX Value	Function
1	2		
42	44	0	Focus - fine
43	45	128	Framing shutters module rotation
44	46	0	Framing shutter 1- movement
45	47	128	Framing shutter 1- swivelling
46	48	0	Framing shutter 2- movement
47	49	128	Framing shutter 2- swivelling
48	50	0	Framing shutter 3 movement
49	51	128	Framing shutter 3- swivelling
50	52	0	Framing shutter 4 movement
51	53	128	Framing shutter 4- swivelling
52	54	32	Shutter/ strobe
53	55	0	Dimmer intensity
54	56	0	Dimmer intensity - fine

Mode/Channel		DMX Value	Function	Type of control
1	2			
1	**1**		**Pan**	
		0 - 255	Pan movement by 540° (128=default)	proportional
2	**2**		**Pan Fine**	
		0 - 255	Fine control of pan movement (0=default)	proportional
3	**3**		**Tilt**	
		0 - 255	Tilt movement by 270° (128=default)	proportional
4	**4**		**Tilt fine**	
		0 - 255	Fine control of tilt movement (0=default)	proportional
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**		**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 , Quiet mode: Fans Off at blackout.	
		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" 52/54 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden except DMX input .	
		6-7	Standby mode: On (fixture effects are deactivated, light output is closed)	step
		8-9	Standby mode: Off	step
		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	

Mode/Channel		DMX Value	Function	Type of control
1	2			
		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	Pressure test: On (fixture does not respond to DMX during the test except values 36-37 (Pressure test Off))	step
		36-37	Pressure test: Off	step
		38-39	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
		90-91	Fans mode: Super Quiet	step
		92-94	Reserved	
		95-99	Dimmer curve: Super Square Law	step
		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 (except pan/tilt)	step
		140 - 149	Pan/Tilt reset	step
		150 - 159	Colour system reset	step
		160 - 169	Gobo wheels/effect wheel reset	step
		170 - 179	Reserved	
		180 - 189	Zoom/focus/frost/prisms reset	step
		190 - 199	Iris /framing shutters reset	step
		200 - 209	Total fixture reset (including pan/tilt)	step
		210	Static Pan/Tilt reset: On** (default setting in the fixture)	step
		211	Static Pan/Tilt reset: Off**	step
		212	Calibrate Pan/Tilt reset	step
			*** Set option will be saved to the fixture.*	
		213 - 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

Mode/Channel		DMX Value	Function	Type of control
1	2			
		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 overridden.	
		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	
			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	**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)*	

Mode/Channel		DMX Value	Function	Type of control
1	2			
			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%).*	
			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" 52/54 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	**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	**11**		**Colour wheel 1 - fine positioning**	
		0 - 255	Fine positioning (0=default)	proportional
12	**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

Mode/Channel		DMX Value	Function	Type of control
1	2			
		128-129	Open/White	step
			Positioning	
		130-141	Multicolour	step
		142-153	Laser green	step
		154-165	Lavender	step
		166-177	Filter CRI 80	step
		178-189	Filter CRI 90	step
		190 - 215	Forwards rainbow effect from fast to slow	proportional
		216 - 217	No rotation	step
		218 - 243	Backwards rainbow effect from slow to fast	proportional
		244 - 249	Reserved	
		250 - 255	Auto random colour selection from fast to slow	proportional
13	**13**		**Colour wheel 2 - fine positioning**	
		0 - 255	Fine positioning (0=default)	proportional
14	**14**		**Cyan**	
		0 - 255	Cyan from min. saturation --> full cyan (0=default)	proportional
15	**15**		**Magenta**	
		0 - 255	Magenta from min. saturation --> full magenta (0=default)	proportional
16	**16**		**Yellow**	
		0 - 255	Yellow from min. saturation --> full yellow (0=default)	proportional
17	**17**		**CTO**	
		0 - 255	CTO from 6700K --> 3000K (0=default), HP white LED engine	proportional
		0 - 255	CTO from 6000K --> 2200K (0=default), HCF white LED engine	proportional
18	**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	**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

Mode/Channel		DMX Value	Function	Type of control
1	2			
		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
		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

Mode/Channel		DMX Value	Function	Type of control
1	2			
		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	**20**		**Effects Speed**	
			Speed of CMY&CTO movement and Rot. Gobos selection	
		0-255	Speed of CMY+CTO movement from max. to min. (0=default)	proportional
		0-255	Speed of Rot. Gobos selection from max. to min.	proportional
21	**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	**22**		**Framing shutters/Zoom/Focus/Iris/Frost/Prism time**	
		0	Function is off (0=default)	step
		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	**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	**24**		**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	**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, Rotating gobo wheel 1/2, Rot. Gobo 1/2 indexing and rotation, Rot. Gobo wheel 1/2 fine rotation.	
		8-9	Macro 1 (Focus=190)	step
		10-11	Macro 2 (Focus=167)	step
		12-13	Macro 3 (Focus=170)	step
		14-15	Macro 4 (Focus=170)	step
		16-17	Macro 5 (Focus=170)	step
		18-19	Macro 6 (Focus=136)	step
		20-21	Macro 7 (Focus=140)	step
		22-23	Macro 8 (Focus=130)	step
		24-25	Macro 9 (Focus=142)	step
		26-27	Macro 10 (Focus=140)	step
		28-255	Reserved	
26	*		**Rotating gobo wheel 1**	
			Index - set indexing on channel 27	

Mode/Channel		DMX Value	Function	Type of control
1	2			
		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 27	
		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 27	
		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 27	
		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	Reserved	
		250 - 255	Auto random gobo selection from fast to slow	proportional
*	**26**		**Rotating gobo wheel 1**	
			Index - set indexing on channel 28	
		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	
		32-35	Gobo 1	step
		36-40	Gobo 2	step
		41-44	Gobo 3	step

Mode/Channel		DMX Value	Function	Type of control
1	2			
		45-49	Gobo 4	step
		50-54	Gobo 5	step
		55-59	Gobo 6	step
			Continual positioning	
			Index - set indexing on channel 28	
		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	
			Rotation - set rotation on channel 28	
		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
		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 1 - fine positioning**	
		0 - 255	Fine positioning (0=default)	proportional
27	**28**		**Rot. Gobo 1 indexing and rotation**	
			Gobo indexing - set position on channel 26	
		0 - 255	Gobo indexing	proportional
			Gobo rotation - set position on channel 26	
		0	No rotation	step
		1 - 127	Forwards gobo rotation from fast to slow	proportional
		128	No rotation (128=default)	step
		129 - 255	Backwards gobo rotation from slow to fast	proportional
28	**29**		**Rot. Gobo 1 indexing/rotation - fine**	
		0-255	Fine indexing/rotation (0=default)	proportional
29	*		**Rotating gobo wheel 2**	
			Index - set indexing on channel 30	
		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

Mode/Channel		DMX Value	Function	Type of control
1	2			
			Rotation - set rotation on channel 30	
		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 30	
		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 30	
		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	Reserved	
		250 - 255	Auto random gobo selection from fast to slow	proportional
*	**30**		**Rotating gobo wheel 2**	
			Index - set indexing on channel 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 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
			Continual positioning	
			Index - set indexing on channel 32	
		60	Open/hole	proportional
		70	Gobo 1	proportional

Mode/Channel		DMX Value	Function	Type of control
1	2			
		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	
			Rotation - set rotation on channel 32	
		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
		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
*	**31**		**Rotating gobo wheel 2 - fine positioning**	
		0 - 255	Fine positioning (0=default)	proportional
30	**32**		**Rot. Gobo 2 indexing and rotation**	
			Gobo indexing - set position on channel 29/30	
		0 - 255	Gobo indexing	proportional
			Gobo rotation - set position on channel 29/30	
		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
31	**33**		**Rot. Gobo 2 indexing/rotation - fine**	
		0-255	Fine indexing/rotation (0=default)	proportional
32	**34**		**Prism 1 (6-facet linear)**	
		0 - 19	Open position - hole (0=default)	step
		20 - 73	Prism 1 indexing	step
		74-127	Prism 1 rotation	step
			Prism 1 /gobo macros	
			The following channels are blocked: Prism 1, Prism 1 indexing/ rotation, Rotating gobo 1/2 wheel, Rot. Gobo 1/2 indexing and rotation, Rot. Gobo 1/2 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
		176 - 183	Macro 7	step
		184 - 191	Macro 8	step

Mode/Channel		DMX Value	Function	Type of control
1	2			
		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	**35**		**Prism 1 indexing/rotation**	
			Prism 1 indexing - set position on channel 32/34	
		0 - 255	Prism 1 indexing	proportional
			Prism 1 rotation - set position on channel 32/34	
		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
34	**36**		**Prism 2 (6-facet circular)**	
		0 - 19	Open position - hole (0=default)	step
		20-127	Prism 2 rotation	step
			Prism 2 /gobo macros	
			The following channels are blocked: Prism 2, Prism 2 rotation, Rotating gobo wheel 1/2, Rot. Gobo 1/2 indexing and rotation, Rot. Gobos 1/2 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
		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
35	**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
36	**38**		**Frost**	
		0	Open (0=default)	step
			Frost cannot stay in intermediate position, it will auto-move to full/open position.	
			Light Frost	

Mode/Channel		DMX Value	Function	Type of control
1	2			
		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
37	**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
38	**40**		**Iris - fine**	
		0 - 255	Fine iris movement (0=default)	proportional
39	**41**		**Zoom**	
		0 - 255	Zoom from max. to min. beam angle (128=default)	proportional
40	**42**		**Zoom - fine**	
		0-255	Fine zooming (0=default)	proportional
41	**43**		**Focus**	
		0 - 255	Continuous adjustment from far to near (128=default)	proportional
42	**44**		**Focus - fine**	
		0- 255	Fine focusing (0=default)	proportional
43	**45**		**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
44	**46**		**Framing shutter 1- movement**	
		0-255	Movement from Outward to Inward (0=default)	proportional
45	**47**		**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
46	**48**		**Framing shutter 2- movement**	
		0-255	Movement from Outward to Inward (0=default)	proportional
47	**49**		**Framing shutter 2- swivelling**	
		0-127	Swivelling from -30 degrees towards 0 degrees	proportional

Mode/Channel		DMX Value	Function	Type of control
1	2			
		128	0 degrees (128=default)	step
		129-255	Swivelling from 0 degrees to +30 degrees	proportional
48	**50**		**Framing shutter 3 movement**	
		0-255	Movement from Outward to Inward (0=default)	proportional
49	**51**		**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
50	**52**		**Framing shutter 4 movement**	
		0-255	Movement from Outward to Inward (0=default)	proportional
51	**53**		**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
52	**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
53	**55**		**Dimmer intensity**	
		0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
54	**56**		**Dimmer intensity - fine**	
		0 - 255	Fine dimming (0=default)	proportional

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