Robin LEDdBeam 150/Robin LEDBeam 150 FW - DMX protocol

Version: 1.5 **Mode 1**-Standard 16-bit, **Mode 2** -Reduced 8-bit

Mode/channel 1	Mode/channel 2	DMX Value	Function	Type of control
1	**1**		**Pan (8 bit)**	
		0 - 255	Pan movement by 450° (128=default)	proportional
2	**2**		**Pan Fine (16 bit)**	
		0 - 255	Fine control of pan movement (0=default)	proportional
3	**3**		**Tilt (8 bit)**	
		0 - 255	Tilt movement by 228° (128=default)	proportional
4	**4**		**Tilt fine (16 bit)**	
		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**	
		0 -19	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 20/15 must be at range: 0-31 DMX). Corresponding menu items are temporarily overriden.	
		20-24	Display ON	step
		25-29	Display OFF	step
		30-34	RGBW colour mixing mode	step
		35-39	CMY colour mixing mode	step
		40-44	Pan/Tilt speed mode	step
		45 - 49	Pan/Tilt time mode	step
		50 -54	Blackout while pan/tilt moving	step
		55 -59	Disabled blackout while pan/tilt moving	step
		60 - 64	Dimmer curve - square law	step
		65 - 69	Dimmer curve - linear	step
		70 - 74	Fans mode: Auto	step
		75 - 79	Fans mode: High	step
		80-84	White point 8000K ON	step
		85-89	White point 8000K OFF	step
		90-94	Fans mode: Quiet	step
		95 -129	Reserved	
			To activate following functions, stop in DMX value for at least 3 seconds. Corresponding menu items are temporarily overriden.	
		130 - 139	Reserved	
		140 - 149	Pan/Tilt reset	step
		150 - 159	Zoom reset	step
		160 - 169	Reserved	step
			Tungsten effect simulution for whites 2700K and 3200K	
		170-171	Tungsten effect simulation (750W) On	step
		172-173	Tungsten effect simulation (1000W) On	step

Mode/channel 1	Mode/channel 2	DMX Value	Function	Type of control
		174-175	Tungsten effect simulation (1200W) On	step
		176-177	Tungsten effect simulation (2000W) On	step
		178-179	Tungsten effect simulation (2500W) On	step
		180-181	Tungsten effect simulation Off	step
		182-184	Reserved	
		185	PWM output frequency of LEDS: Standard (300Hz)**	step
		186	PWM output frequency of LEDS: High (1200Hz)**	step
			** You can adjust selected frequency in 6 steps Up or Down around selected frequency - see table below . Default value of PWM frequency set in the fixture is Standard.	
		187	LED Frequency (step -6)	step
		188	LED Frequency (step -5)	step
		189	LED Frequency (step -4)	step
		190	LED Frequency (step -3)	step
		191	LED Frequency (step -2)	step
		192	LED Frequency (step -1)	step
		193	LED Frequency (Standard or High)	step
		194	LED Frequency (step +1)	step
		195	LED Frequency (step +2)	step
		196	LED Frequency (step +3)	step
		197	LED Frequency (step +4)	step
		198	LED Frequency (step +5)	step
		199	LED Frequency (step +6)	step
		200 - 209	Total fixture reset	step
		210 - 255	Reserved	
7	**7**		**Virtual colour wheel**	
		0	No function (0=default)	step
		1-2	Filter 4 (Medium Bastard Amber)	step
		3-4	Filter 25 (Sunset Red)	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 36 (Medium Pink)	step
		15-16	Filter 89 (Moss Green)	step
		17-18	Filter 88 (Lime Green)	step
		19-20	Filter 90 (Dark Yellow Green)	step
		21-22	Filter 49 (Medium Purple)	step
		23-24	Filter 52 (Light Lavender)	step
		25-26	Filter 102 (Light Amber)	step
		27-28	Filter 103 (Straw)	step
		29-30	Filter 140 (Summer Blue)	step
		31-32	Filter 124 (Dark Green)	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 126 (Mauve)	step
		41-42	Filter 117 (Steel Blue)	step
		43-44	Filter 118 (Light Blue)	step
		45-46	Filter 122 (Fern Green)	step

Mode/channel 1	Mode/channel 2	DMX Value	Function	Type of control
		47-48	Filter 182 (Light Red)	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 798 (Chrysalis Pink)	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 143 (Pale Navy Blue)	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 194 (Surprise Pink)	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 219 (Fluorescent Green)	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 507 (Madge)	step
		129-130	Filter 778 (Millennium Gold)	step
		131-132	Filter 793 (Vanity Fair)	step
		133-235	Raw DMX	proportional
		236-245	Rainbow effect (with fade time) from slow-> fast	proportional
		246-255	Rainbow effect (without fade time) from slow-> fast	proportional
8	**8**		**Red/Cyan (8 bit)***	
		0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
9	*****		**Red/Cyan (16bit)***	

Mode/channel 1	Mode/channel 2	DMX Value	Function	Type of control
		0 - 255	Colour saturation control - fine (255=default)	proportional
10	**9**		**Green/Magenta (8 bit) ***	
		0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
11	*		**Green/Magenta (16bit) ***	
		0 - 255	Colour saturation control - fine (255=default)	proportional
12	**10**		**Blue/Yellow (8 bit) ***	
		0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
13	*		**Blue/ Yellow (16bit) ***	
		0 - 255	Colour saturation control - fine (255=default)	proportional
14	**11**		**White (8 bit)**	
			If RGBW mode is selected:	
		0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
			If CMY mode is selected:	
		0 - 255	No function	
15	*		**White (16 bit)**	
		0 - 255	Colour saturation control - fine (255=default)	proportional
16	**12**		**CTC**	
			If function "White Point 8000K" is ON	
		0-255	Col. temperature correction from 8000K to 2700K -for whites only	proportional
			(0=8000K, 64=5600K, 128=4200K, 192=3200K, 255=2700K)	
			To get colour temperatures stated above, RGBW channels have to be set at the same value e.g. 255DMX (0=default)	
			(To activate Tungsten effect at 2700K and 3200K , set DMX value at "Power/Special functions" channel)	
			If function "White Point 8000K" is OFF	
		0-255	Colour temperature correction for from cool white to 2700K	proportional
17	**13**		**Colour Mix control**	
			Defines relation between colour channels	
			"Virtual" = Virtual Colours (Virtual Colour Wheel)	
			"Colour mix" = Colour channels (RGBW/CMY)	
		0-9	Virtual colors ("Virtual" has priority)	step
		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) (45=default)	step
		50-59	Subtraction mode (Virtual – Colour mix)	step
		60-69	Inverted Subtraction mode (Virtual – Colour mix)	step
		70-128	Reserved	
		129	Virtual colors (virtual has priority)	step
		130-254	Crossfade (crossfade between Virtual and Colour mix)	proportional
		255	Colour channels ("Colour mix" has priority)	step
18	**14**		**Zoom**	
		0-255	Zoom from max. to min.beam angle (128=default)	proportional
19	*		**Zoom - fine**	
		0-255	Fine zooming (0=default)	proportional
20	**15**		**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

Mode/channel 1	Mode/channel 2	DMX Value	Function	Type of control
		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
21	**16**		**Dimmer intensity (8 bit)**	
		0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
22	*****		**Dimmer intensity - fine (16 bit)**	
		0 - 255	Fine dimming (0=default)	proportional
*Select RGB or CMY mixing mode on channel "Power/Special functions" .				
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Robin LEDBeam 150/Robin LEDBeam 150 FW - colours on Virtual Colour Wheel				
Colour name	**Red** (DMX)	**Green** (DMX)	**Blue** (DMX)	**White** (DMX)
Filter 4 (Medium Bastard Amber)	255	118	0	109
Filter 25 (Sunset Red)	255	47	0	3
Filter 19 (Fire)	255	13	0	0
Filter 26 (Bright Red)	255	0	0	0
Filter 58 (Lavender)	117	0	97	155
Filter 68 (Sky Blue)	31	219	105	6
Filter 36 (Medium Pink)	255	74	8	24
Filter 89 (Moss Green)	69	245	0	3
Filter 88 (Lime Green)	187	226	0	0
Filter 90 (Dark Yellow Green)	2	255	0	0
Filter 49 (Medium Purple)	255	0	27	0
Filter 52 (Light Lavender)	232	88	6	166
Filter 102 (Light Amber)	223	164	0	0
Filter 103 (Straw)	191	144	0	28
Filter 140 (Summer Blue)	0	149	3	220
Filter 124 (Dark Green)	29	255	0	12
Filter 106 (Primary Red)	242	1	1	0
Filter 111 (Dark Pink)	255	67	11	49
Filter 115 (Peacock Blue)	0	255	29	43
Filter 126 (Mauve)	255	0	39	0
Filter 117 (Steel Blue)	179	255	14	197
Filter 118 (Light Blue)	0	255	76	30
Filter 122 (Fern Green)	98	255	0	4
Filter 182 (Light Red)	255	16	2	0
Filter 121 (Filter Green)	165	255	0	0
Filter 128 (Bright Pink)	255	0	13	32
Filter 131 (Marine Blue)	73	245	27	30
Filter 132 (Medium Blue)	0	230	120	0
Filter 134 (Golden Amber)	166	83	0	0
Filter 135 (Deep Golden Amber)	255	50	0	0
Filter 136 (Pale Lavender)	140	101	25	40
Filter 137 (Special Lavender)	110	60	45	102
Filter 138 (Pale Green)	241	255	4	48
Filter 798 (Chrysalis Pink)	49	0	98	26
Filter 141 (Bright Blue)	0	225	62	5
Filter 147 (Apricot)	190	107	0	15
Filter 148 (Bright Rose)	255	3	0	37
Filter 152 (Pale Gold)	179	119	0	39
Filter 154 (Pale Rose)	214	118	0	48
Filter 157 (Pink)	255	56	5	43
Filter 143 (Pale Navy Blue)	0	193	67	148
Filter 162 (Bastard Amber)	211	153	6	36
Filter 164 (Flame Red)	255	27	0	4
Filter 165 (Daylight Blue)	23	236	93	81
Filter 169 (Lilac Tint)	185	123	0	109
Filter 170 (Deep Lavender)	235	123	41	37
Filter 172 (Lagoon Blue)	0	255	63	5

Colour name	Red (DMX)	Green (DMX)	Blue (DMX)	White (DMX)
Filter 194 (Surprise Pink)	110	0	21	255
Filter 180 (Dark Lavender)	136	43	181	120
Filter 181 (Congo Blue)	24	0	255	9
Filter 197 (Alice Blue)	79	193	154	36
Filter 201 (Full C.T. Blue)	153	223	66	156
Filter 202 (Half C.T. Blue)	255	248	34	116
Filter 203 (Quarter C.T. Blue)	245	213	14	147
Filter 204 (Full C.T. Orange)	230	131	3	3
Filter 219 (Fluorescent Green)	99	148	16	50
Filter 206 (Quarter C.T. Orange)	199	152	0	60
Filter 247 (Filter Minus Green)	255	79	0	187
Filter 248 (Half Minus Green)	255	138	0	112
Filter 281 (Three Quarter C.T. Blue)	225	255	99	189
Filter 285 (Three Quarter C.T. Orange)	181	121	0	15
Filter 352 (Glacier Blue)	0	161	49	90
Filter 353 (Lighter Blue)	0	115	21	97
Filter 507 (Madge)	255	31	0	0
Filter 778 (Millennium Gold)	255	65	0	0
Filter 793 (Vanity Fair)	255	0	13	16