

DMX protocol

Robin 800X LEDWash - DMX protocol, version 1.1								
Mode/Channel						Value	Function	Type of control
1	2	3	4	5	6			
1	1	1	1	1	1	0-255	Pan (8 bit) Pan movement by 450° (128=default)	proportional
2	2	2	2	2	2	0-255	Pan Fine (16 bit) Fine control of pan movement (0=default)	proportional
3	3	3	3	3	3	0-255	Tilt (8bit) Tilt movement by 300° (128=default)	proportional
4	4	4	4	4	4	0-255	Tilt fine (16 bit) Fine control of tilt movement (0=default)	proportional
5	5	5	5	5	5		Pan/Tilt speed, Pan/Tilt time	
						0	Standard mode (0=default)	step
						1	Max. speed mode	step
						2 - 255	Speed from max. to min. (vector mode)	proportional
						2 - 255	Time from 0.2 s to 25.5 s.	proportional
6	6	6	6	6	6		Special functions	
						0 - 9	Reserved (0=default)	
							<i>To activate following functions , stop in DMX value for at least 3sec. and shutter must be closed at least 3sec. (Shutter channel 35/19/14/9/9/22 must be at range of 0-31DMX). Corresponding menu items are temporarily overrided except DMX Input.</i>	
						10-14	DMX input: Wired DMX *	step
						15-19	DMX input: Wireless DMX*	step
							<i>* function is active only10 seconds after switching the fixture on</i>	
						20 - 29	Reserved	
						30-39	Colour mixing mode: RGBW	
						40-49	Colour mixing mode: CMY	
						50 - 59	Pan/Tilt speed mode	step
						60 - 69	Pan/Tilt time mode	step
						70 - 79	Blackout while pan/tilt moving	step
						80 - 89	Disabled blackout while pan/tilt moving	step
						90 - 99	Theatre mode On	step
						100-109	Theatre mode Off	step
						110-114	Zoom mode: Wash	step
						115-119	Zoom mode: Beam	step
						120-124	LEDWash compatibility On	step
						125-129	LEDWash compatibility Off	step
						130-139	Reserved	
	<i>To activate following reset function, stop in DMX value for at least 3 sec.</i>							
140 - 149	Pan/Tilt reset	step						
150 - 179	Reserved							

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Mode/Channel						Value	Function	Type of control
1	2	3	4	5	6			
						180 - 189	Zoom/Beam shaper reset	step
						190 - 199	Reserved	
						200 - 209	Total reset	step
						210 - 239	Reserved	
						240	Disabled "Quiet mode" of fans	step
							<i>To activate "Quiet mode ", stop in range of 241-255 at least 3 sec.</i>	
						241 - 255	"Quiet mode" of fans: fans noise from min. to max.	proportional
*	7	7	*	*	*		Red/Cyan (8 bit)** - all zones	
						0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	8	*	*	*	*		Red/Cyan fine(16 bit)** - all zones	
						0-255	Colour saturation control - fine (255=default)	proportional
*	9	8	*	*	*		Green/Magenta (8 bit)** - all zones	
						0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	10	*	*	*	*		Green/Magenta fine (16 bit)** - all zones	
						0-255	Colour saturation control - fine (255=default)	proportional
*	11	9	*	*	*		Blue/Yellow (8 bit)** - all zones	
						0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	12	*	*	*	*		Blue/Yellow fine (16 bit)** - all zones	
						0-255	Colour saturation control - fine (255=default)	proportional
*	13	10	*	*	*		White (8 bit) - all zones	
							<i>If RGBW mode is selected:</i>	
						0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
							<i>If CMY mode is selected:</i>	
						0-255	No function	
*	14	*	*	*	*		White fine (16 bit) - all zones	
						0-255	Colour saturation control - fine (255=default)	proportional
7	*	*	*	15	7		Red/Cyan (8 bit)** - zone 1	
						0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
8	*	*	*	16	8		Red/Cyan fine (16 bit)** - zone 1	
						0-255	Colour saturation control - fine (255=default)	proportional
9	*	*	*	17	9		Green/Magenta (8 bit)** - zone 1	
						0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
10	*	*	*	18	10		Green/Magenta fine (16 bit)** - zone 1	
						0-255	Colour saturation control - fine (255=default)	proportional
11	*	*	*	19	11		Blue/Yellow (8 bit)** zone 1	
						0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
12	*	*	*	20	12		Blue/Yellow (16 bit)** zone 1	
						0-255	Colour saturation control - fine (255=default)	proportional
							White (8 bit) - zone 1	
							<i>If RGBW mode is selected:</i>	

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1	2	3	4	5	6			
13	*	*	*	21	13	0-255	Colour saturation control - coarse 0-100% (255=default)	proportional
							<i>If CMY mode is selected:</i>	
							No function	
14	*	*	*	22	14		White (16 bit) - zone 1	proportional
						0-255	Colour saturation control - fine (255=default)	
15	*	*	*	23	15		Red/Cyan (8 bit)** - zone 2	proportional
						0-255	Colour saturation control - coarse 0-100% (255=default)	
16	*	*	*	24	16		Red/Cyan fine (16 bit)** - zone 2	proportional
						0-255	Colour saturation control - fine (255=default)	
17	*	*	*	25	17		Green/Magenta (8 bit)** - zone 2	proportional
						0-255	Colour saturation control - coarse 0-100% (255=default)	
18	*	*	*	26	18		Green/Magenta fine (16 bit)** - zone 2	proportional
						0-255	Colour saturation control - fine (255=default)	
19	*	*	*	27	19		Blue/Yellow (8 bit)** zone 2	proportional
						0-255	Colour saturation control - coarse 0-100% (255=default)	
20	*	*	*	28	20		Blue/Yellow (16 bit)** zone 2	proportional
						0-255	Colour saturation control - fine (255=default)	
21	*	*	*	29	21		White (8 bit) - zone 2	proportional
							<i>If RGBW mode is selected:</i>	
						0-255	Colour saturation control - coarse 0-100% (255=default)	
22	*	*	*	30	22		<i>If CMY mode is selected:</i>	proportional
							No function	
						0-255	Colour saturation control - fine (255=default)	
23	*	*	*	31	23		White (16 bit) - zone 2	proportional
						0-255	Colour saturation control - coarse 0-100% (255=default)	
24	*	*	*	32	24		Red/Cyan (8 bit)** - zone 3	proportional
						0-255	Colour saturation control - coarse 0-100% (255=default)	
25	*	*	*	33	25		Red/Cyan fine (16 bit)** - zone 3	proportional
						0-255	Colour saturation control - fine (255=default)	
26	*	*	*	34	26		Green/Magenta (8 bit)** - zone 3	proportional
						0-255	Colour saturation control - coarse 0-100% (255=default)	
27	*	*	*	35	27		Green/Magenta fine (16 bit)** - zone 3	proportional
						0-255	Colour saturation control - fine (255=default)	
28	*	*	*	36	28		Blue/Yellow (8 bit)** zone 3	proportional
						0-255	Colour saturation control - coarse 0-100% (255=default)	
29	*	*	*	37	29		Blue/Yellow (16 bit)** zone 3	proportional
							<i>If RGBW mode is selected:</i>	
						0-255	Colour saturation control - coarse 0-100% (255=default)	
30	*	*	*	38	30		<i>If CMY mode is selected:</i>	proportional
							No function	
						0-255	Colour saturation control - fine (255=default)	
31	*	*	*	39	31		White (8 bit) - zone 3	proportional
						0-255	Colour saturation control - coarse 0-100% (255=default)	
32	*	*	*	40	32		White (16 bit) - zone 3	proportional
						0-255	Colour saturation control - fine (255=default)	

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Mode/Channel						Value	Function	Type of control
1	2	3	4	5	6			
30				30	30	0-255	Colour saturation control - fine (255=default)	proportional
31	15	11	*	13	31		CTC	
						0	No function (0=default)	step
						1-255	Colour temperature correction from 20000K to 2700K (<i>menu item "Colour Calibration Mode"=Off</i>)	proportional
						1-255	Colour temperature correction from 15500K to 2700K (<i>menu item "Colour Calibration Mode"=On</i>)	proportional
32	16	12	7	14	32		Virtual Colour Wheel	
							For detailed description see " Virtual colour wheel- colour mixing chart	
						0	No function (0=default)	step
						1-2	White 2700 K	step
						3	White 2700 K (Halogen lamp mode***)	step
						4-5	White 3200 K	step
						6	White 3200 K (Halogen lamp mode***)	step
						7-9	White 4200 K	step
						10-12	White 5600 K	step
						13-15	White 8000 K	step
						16	Blue (Blue=full, Red+Green+White=0)	step
						17-55	Red=0, Green->up,Blue =full, White=0	proportional
						56	Light Blue (Red=0, Green=full, Blue =full, White=0)	step
						57 - 95	Red=0, Green=full, Blue->down, White=0	proportional
						96	Green (Red=0, Green=full, Blue =0, White=0)	step
						97 – 134	Red->up, Green=full, Blue=0, White=0	proportional
						135	Yellow (Red=full, Green=full, Blue=0, White=0)	step
						136 - 174	Red=full, Green->down, Blue=0, White=0	proportional
						175	Red(Red=full, Green=0, Blue=0, White=0)	step
						176 -214	Red=full, Green=0, Blue->up, White=0	proportional
						215	Magenta (Red=full, Green=0, Blue=full, White=0)	step
						216 - 246	Red -> down, Green=0, Blue=full, White=0	proportional
						247	Blue (Red=0, Green=0, Blue=full, White=0)	step
							<i>Speed of the following effects can be controlled by the Shutter/Strobe channel (DMX values of 96-127)</i>	
						248	Rainbow effect (with fade time)	step
						249	Rainbow effect	step
						250	Zone effect 1	step
						251	Zone effect 2	step
						252	Zone effect 3	step
						253	Zone effect 4	step
						254	Zone effect 5	step
						255	Zone effect 6	step
33	17	13	8	9	*		Beam shaper	
						0-127	Beam shaper indexing 0°-180° (0=default)	proportional
						128-191	Forwards rotation from fast to slow	proportional
						192-255	Backwards rotation from slow to fast	proportional
34	18	14	9	7	33		Zoom (8 bit)	
						0 - 255	Zoom from min. to max. beam angle (128=default)	proportional

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Mode/Channel						Value	Function	Type of control
1	2	3	4	5	6			
35	19	*	*	8	34		Zoom fine (16 bit)	
						0 - 255	Fine zooming from min. to max. (0=default)	proportional
36	20	15	10	10	35		Shutter/Strobe	
						0-31	Shutter closed	step
						32-63	Strobe effect from slow--> fast (zone 3 only) (32=default)	proportional
						64-95	Strobe effect from slow--> fast (All zones together)	proportional
							<i>Set value on Virtual colour wheel for zone effects</i>	
						96-111	Zone effects+rainbow effects speed control, slow--> fast	proportional
						112-127	Zone effects+rainbow effects speed control, fast--> slow /opposite direction/	proportional
						128-143	Opening pulses in sequences from slow--> fast	proportional
							(All zones together)	
						144-159	Closing pulses in sequences from fast--> slow	proportional
							(All zones together)	
						160-175	Random strobe effect from slow--> fast (random zone)	proportional
176-191	Random strobe effect from slow--> fast (random zone + random strobe)	proportional						
192-223	Random strobe effect from slow --> fast (All zones together)	proportional						
224-255	Shutter open	step						
37	21	16	11	11	36		Dimmer (8 bit)	
						0-255	Dimmer intensity from 0% to 100% (0=default)	proportional
38	22	*	*	12	37		Dimmer fine (16 bit)	
						0-255	Fine dimming (0=default)	proportional
**Select RGB or CMY mixing mode on channel "Power/Special functions".								
*** Halogen lamp effect is simulated during dimming								
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Robin 800X LEDWash - Virtual Colour Wheel

Scale*	Virtual Colour Wheel DMX	Red DMX	Green DMX	Blue DMX	White DMX
	64	0	255	183	0
	65	0	255	174	0
	66	0	255	165	0
	67	0	255	156	0
	68	0	255	147	0
	69	0	255	138	0
	70	0	255	129	0
	71	0	255	119	0
	72	0	255	110	0
	73	0	255	104	0
	74	0	255	98	0
	75	0	255	92	0
	76	0	255	86	0
	77	0	255	80	0
	78	0	255	74	0
	79	0	255	68	0
	80	0	255	64	0
	81	0	255	58	0
	82	0	255	52	0
	83	0	255	46	0
	84	0	255	41	0
	82	0	255	36	0
	86	0	255	30	0
	87	0	255	27	0
	88	0	255	24	0
	89	0	255	21	0
	90	0	255	18	0
	91	0	255	15	0
	92	0	255	12	0
	93	0	255	9	0
	94	0	255	6	0
	95	0	255	3	0
	96	0	255	0	0
	97	3	255	0	0
	98	6	255	0	0
	99	9	255	0	0
	100	12	255	0	0
	101	15	255	0	0
	102	18	255	0	0
	103	21	255	0	0
	104	24	255	0	0
	105	27	255	0	0
	106	30	255	0	0
	107	36	255	0	0
	108	41	255	0	0
	109	46	255	0	0
	110	52	255	0	0
	111	58	255	0	0
	112	64	255	0	0
	113	68	255	0	0
	114	74	255	0	0
	115	80	255	0	0
	116	86	255	0	0
	117	92	255	0	0
	118	98	255	0	0

Robin 800X LEDWash - Virtual Colour Wheel

Scale*	Virtual Colour Wheel	Red	Green	Blue	White
	DMX	DMX	DMX	DMX	DMX
	119	104	255	0	0
	120	110	255	0	0
	121	119	255	0	0
	122	129	255	0	0
	123	138	255	0	0
	124	147	255	0	0
	125	156	255	0	0
	126	165	255	0	0
	127	174	255	0	0
	128	183	255	0	0
	129	192	255	0	0
	130	201	255	0	0
	131	210	255	0	0
	132	219	255	0	0
	133	228	255	0	0
	134	240	255	0	0
	135	255	255	0	0
	136	255	246	0	0
	137	255	237	0	0
	138	255	228	0	0
	139	255	219	0	0
	140	255	210	0	0
	141	255	201	0	0
	142	255	192	0	0
	143	255	183	0	0
	144	255	174	0	0
	145	255	165	0	0
	146	255	156	0	0
	147	255	147	0	0
	148	255	138	0	0
	149	255	129	0	0
	150	255	119	0	0
	151	255	110	0	0
	152	255	104	0	0
	153	255	98	0	0
	154	255	92	0	0
	155	255	86	0	0
	156	255	80	0	0
	157	255	74	0	0
	158	255	68	0	0
	159	255	64	0	0
	160	255	58	0	0
	161	255	52	0	0
	162	255	46	0	0
	163	255	41	0	0
	164	255	36	0	0
	165	255	30	0	0
	166	255	27	0	0
	167	255	24	0	0
	168	255	21	0	0
	169	255	18	0	0
	170	255	15	0	0
	171	255	12	0	0
	172	255	9	0	0
	173	255	6	0	0

Robin 800X LEDWash - Virtual Colour Wheel

Scale*	Virtual Colour Wheel	Red	Green	Blue	White
	DMX	DMX	DMX	DMX	DMX
	174	255	3	0	0
	175	255	0	0	0
	176	255	0	3	0
	177	255	0	6	0
	178	255	0	9	0
	179	255	0	12	0
	180	255	0	15	0
	181	255	0	18	0
	182	255	0	21	0
	183	255	0	24	0
	184	255	0	27	0
	185	255	0	30	0
	186	255	0	36	0
	187	255	0	41	0
	188	255	0	46	0
	189	255	0	52	0
	190	255	0	58	0
	191	255	0	64	0
	192	255	0	68	0
	193	255	0	74	0
	194	255	0	80	0
	195	255	0	86	0
	196	255	0	92	0
	197	255	0	98	0
	198	255	0	104	0
	199	255	0	110	0
	200	255	0	119	0
	201	255	0	129	0
	202	255	0	138	0
	203	255	0	147	0
	204	255	0	156	0
	205	255	0	165	0
	206	255	0	174	0
	207	255	0	183	0
	208	255	0	192	0
	209	255	0	201	0
	210	255	0	210	0
	211	255	0	219	0
	212	255	0	228	0
	213	255	0	237	0
	214	255	0	246	0
	215	255	0	255	0
	216	246	0	255	0
	217	237	0	255	0
	218	228	0	255	0
	219	219	0	255	0
	220	210	0	255	0
	221	201	0	255	0
	222	192	0	255	0
	223	183	0	255	0
	224	174	0	255	0
	225	165	0	255	0
	226	156	0	255	0
	227	147	0	255	0
	228	138	0	255	0

Robin 800X LEDWash - Virtual Colour Wheel

Scale*	Virtual Colour Wheel	Red	Green	Blue	White
	DMX	DMX	DMX	DMX	DMX
	229	129	0	255	0
	230	119	0	255	0
	231	110	0	255	0
	232	104	0	255	0
	233	98	0	255	0
	234	91	0	255	0
	235	84	0	255	0
	236	77	0	255	0
	237	70	0	255	0
	238	63	0	255	0
	239	56	0	255	0
	240	49	0	255	0
	241	42	0	255	0
	242	35	0	255	0
	243	28	0	255	0
	244	21	0	255	0
	245	14	0	255	0
	246	7	0	255	0
	247	0	0	255	0
	248-255 (Rainbow+ zone effects)	****	****	****	****
* Colour scale as an illustration only					