

Robin ParFect 100 - DMX chart

Version 1.5 **Mode 1 - Standard 16 bit, Mode 2 - Reduced 8bit, Mode 3 - Basic, Mode 4 - Extended 16bit,**

Mode/Channel				Value	Function	Type of control
1	2	3	4			
-	-	-	-		No function	
-	-	-	-		No function	
-	-	-	-		No function	
-	-	-	-		No function	
-	-	-	-		No function	
1	1	1	1	0 - 29	Special functions Reserved <i>To activate following functions (30-129 DMX), stop in DMX value for at least 3sec. and shutter must be closed at least 3sec. (Shutter channel 12/8/3/28/33/5/14 must be at range of 0-31DMX). Corresponding menu items are temporarily overridden.</i>	step
				30 - 39	RGBW colour mixing mode	step
				40 - 49	CMY colour mixing mode	step
				50-109	Reserved	
				110-114	Colour calibration mode On	step
				115-119	Colour calibration mode Off	step
				120-124	Audio control On	step
				125-129	Audio control Off	step
				130-145	Effect speed control, slow--> fast	proportional
				146-161	Effect speed control, fast--> slow /opposite direction/	proportional
			162-255	Reserved		
2	2	-	-	0-255	Red/Cyan (8 bit) - all zones Red LEDs saturation control (0-100%)	proportional
3	-	-	-	0-255	Red/Cyan fine(16 bit) - all zones Fine red LEDs saturation control	proportional
4	3	-	-	0-255	Green/Magenta (8 bit) - all zones Green LEDs saturation control (0-100%)	proportional
5	-	-	-	0-255	Green/Magenta fine (16 bit) - all zones Fine green LEDs saturation control	proportional
6	4	-	-	0-255	Blue/Yellow (8 bit) - all zones Blue LEDs saturation control (0-100%)	proportional
7	-	-	-	0-255	Blue/Yellow fine (16 bit) - all zones Fine blue LEDs saturation control	proportional
8	5	-	-	0-255	White (8 bit) - all zones <i>If RGBW mode is selected:</i> White colour saturation control coarse (0-100%) <i>If CMY mode is selected:</i> No function	proportional
9	-	-	-	0-255	White fine (16 bit) - all zones Fine white LEDs saturation control (RGBW mode)	proportional
-	-	-	2	0-255	Red/Cyan (8 bit) - zone 1 Red LEDs saturation control (0-100%)	proportional
-	-	-	3	0-255	Red/Cyan fine (16 bit) - zone 1 Fine red LEDs saturation control	proportional
-	-	-	4	0-255	Green/Magenta (8 bit) - zone 1 Green LEDs saturation control (0-100%)	proportional
-	-	-	5	0-255	Green/Magenta fine (16 bit) - zone 1 Fine green LEDs saturation control	proportional

Mode/Channel				Value	Function	Type of control
1	2	3	4			
-	-	-	6	0-255	Blue/Yellow (8 bit) zone 1 Blue LEDs saturation control (0-100%)	proportional
-	-	-	7	0-255	Blue/Yellow (16 bit) zone 1 Fine blue LEDs saturation control)	proportional
-	-	-	8	0-255	White (8 bit) - zone 1 <i>If RGBW mode is selected:</i> White colour saturation control coarse (0-100%) <i>If CMY mode is selected:</i> No function	proportional
-	-	-	9	0-255	White (16 bit) - zone 1 Fine white LEDs saturation control (RGBW mode)	proportional
-	-	-	10	0-255	Red/Cyan (8bit) - zone 2 Red LEDs saturation control (0-100%)	proportional
-	-	-	11	0-255	Red/Cyan fine (16 bit) - zone 2 Fine red LEDs saturation control	proportional
-	-	-	12	0-255	Green/Magenta (8 bit) - zone 2 Green LEDs saturation control (0-100%)	proportional
-	-	-	13	0-255	Green/Magenta fine (16 bit) - zone 2 Fine green LEDs saturation control	proportional
-	-	-	14	0-255	Blue/Yellow (8 bit) - zone 2 Blue LEDs saturation control (0-100%)	proportional
-	-	-	15	0-255	Blue/Yellow fine (16 bit) - zone 2 Fine blue LEDs saturation control	proportional
-	-	-	16	0-255	White (8 bit) - zone 2 <i>If RGBW mode is selected:</i> White colour saturation control coarse (0-100%) <i>If CMY mode is selected:</i> No function	proportional
-	-	-	17	0-255	White (16 bit) - zone 2 Fine white LEDs saturation control (RGBW mode)	proportional
-	-	-	18	0-255	Red/Cyan (8 bit) - zone 3 Red LEDs saturation control (0-100%)	proportional
-	-	-	19	0-255	Red/ Cyan fine (16 bit) - zone 3 Fine red LEDs saturation control	proportional
-	-	-	20	0-255	Green/Magenta (8 bit) - zone 3 Green LEDs saturation control (0-100%)	proportional
-	-	-	21	0-255	Green/Magenta fine (16 bit) - zone 3 Fine green LEDs saturation control	proportional
-	-	-	22	0-255	Blue/Yellow (8 bit) zone 3 Blue LEDs saturation control (0-100%)	proportional
-	-	-	23	0-255	Blue/Yellow fine (16 bit) zone 3 Fine blue LEDs saturation control	proportional
-	-	-	24	0-255	White (8 bit) zone 3 <i>If RGBW mode is selected:</i> White colour saturation control coarse (0-100%) <i>If CMY mode is selected:</i> No function	proportional
-	-	-	25	0-255	White fine (16 bit) zone 3 Fine white LEDs saturation control (RGBW mode)	proportional
10	6	-	26	0 1-255	CTC No function Colour temperature correction from 19000K to 2700K	step proportional

Mode/Channel				Value	Function	Type of control
1	2	3	4			
11	7	2	27		Virtual Colour Wheel For detailed description see " Virtual colour wheel- colour mixing chart	
				0	No function	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>Item Audio control = Off (channel Special Functions).</i> <i>The following effects can be controlled by the channel Special Functions (DMX values of 130-161)</i> <i>Item Audio control = On (channel Special Functions).</i> <i>The following effects are controlled by sound</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	Random colour selection	step
12	8	3	28	0-31	Shutter closed	step
				32-63	Strobe effect from slow--> fast (zones 2,3 only)	proportional
				64-95	Strobe effect from slow--> fast (All zones together)	proportional
				96-127	Reserved	
				128-143	Opening pulses in sequences from slow--> fast (All zones together)	proportional
				144-159	Closing pulses in sequences from fast--> slow (All zones together)	proportional
				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				
13	9	4	29	0-255	Dimmer (8 bit) Dimmer intensity from 0% to 100%	proportional
14	-	-	30	0-255	Dimmer fine (16 bit) Fine dimming	proportional

**Mode 5 - Robin 100 LedBeam compatible, Mode 6 - RGBW, Mode 7 - RGBWSD,
Mode 8 - Reduced 8bit (zones)**

Mode/Channel				Value	Function	Type of control
5	6	7	8			
1	-	-	-		No function	
2	-	-	-		No function	
3	-	-	-		No function	
4	-	-	-		No function	
5	-	-	-		No function	
6	-	-	1	0 - 29	Special functions Reserved <i>To activate following functions (30-129 DMX), stop in DMX value for at least 3sec. and shutter must be closed at least 3sec. (Shutter channel 12/8/3/28/33/5/14 must be at range of 0-31DMX). Corresponding menu items are temporarily overridden.</i>	step
				30 - 39	RGBW colour mixing mode	step
				40 - 49	CMY colour mixing mode	step
				50-109	Reserved	
				110-114	Colour calibration mode On	step
				115-119	Colour calibration mode Off	step
				120-124	Audio control On	step
125-129	Audio control Off	step				
				130-145	Effect speed control, slow--> fast	proportional
				146-161	Effect speed control, fast--> slow /opposite direction/	proportional
				162-255	Reserved	
-	1	1	-	0-255	Red/Cyan (8 bit) - all zones Red LEDs saturation control (0-100%)	proportional
-	-	-	-	0-255	Red/Cyan fine(16 bit) - all zones Fine red LEDs saturation control	proportional
-	2	2	-	0-255	Green/Magenta (8 bit) - all zones Green LEDs saturation control (0-100%)	proportional
-	-	-	-	0-255	Green/Magenta fine (16 bit) - all zones Fine green LEDs saturation control	proportional
-	3	3	-	0-255	Blue/Yellow (8 bit) - all zones Blue LEDs saturation control (0-100%)	proportional
-	-	-	-	0-255	Blue/Yellow fine (16 bit) - all zones Fine blue LEDs saturation control	proportional
-	4	4	-	0-255	White (8 bit) - all zones <i>If RGBW mode is selected:</i> White colour saturation control coarse (0-100%) <i>If CMY mode is selected:</i> No function	proportional
-	-	-	-	0-255	White fine (16 bit) - all zones Fine white LEDs saturation control (RGBW mode)	proportional
7	-	-	2	0-255	Red/Cyan (8 bit) - zone 1 Red LEDs saturation control (0-100%)	proportional
8	-	-	-	0-255	Red/Cyan fine (16 bit) - zone 1 Fine red LEDs saturation control	proportional
9	-	-	3	0-255	Green/Magenta (8 bit) - zone 1 Green LEDs saturation control (0-100%)	proportional
10	-	-	-	0-255	Green/Magenta fine (16 bit) - zone 1 Fine green LEDs saturation control	proportional

Mode/Channel				Value	Function	Type of control
5	6	7	8			
11	-	-	4	0-255	Blue/Yellow (8 bit) zone 1 Blue LEDs saturation control (0-100%)	proportional
12	-	-	-	0-255	Blue/Yellow (16 bit) zone 1 Fine blue LEDs saturation control)	proportional
13	-	-	5	0-255	White (8 bit) - zone 1 <i>If RGBW mode is selected:</i> White colour saturation control coarse (0-100%) <i>If CMY mode is selected:</i> No function	proportional
14	-	-	-	0-255	White (16 bit) - zone 1 Fine white LEDs saturation control (RGBW mode)	proportional
15	-	-	6	0-255	Red/Cyan (8bit) - zone 2 Red LEDs saturation control (0-100%)	proportional
16	-	-	-	0-255	Red/Cyan fine (16 bit) - zone 2 Fine red LEDs saturation control	proportional
17	-	-	7	0-255	Green/Magenta (8 bit) - zone 2 Green LEDs saturation control (0-100%)	proportional
18	-	-	-	0-255	Green/Magenta fine (16 bit) - zone 2 Fine green LEDs saturation control	proportional
19	-	-	8	0-255	Blue/Yellow (8 bit) - zone 2 Blue LEDs saturation control (0-100%)	proportional
20	-	-	-	0-255	Blue/Yellow fine (16 bit) - zone 2 Fine blue LEDs saturation control	proportional
21	-	-	9	0-255	White (8 bit) - zone 2 <i>If RGBW mode is selected:</i> White colour saturation control coarse (0-100%) <i>If CMY mode is selected:</i> No function	proportional
22	-	-	-	0-255	White (16 bit) - zone 2 Fine white LEDs saturation control (RGBW mode)	proportional
23	-	-	10	0-255	Red/Cyan (8 bit) - zone 3 Red LEDs saturation control (0-100%)	proportional
24	-	-	-	0-255	Red/ Cyan fine (16 bit) - zone 3 Fine red LEDs saturation control	proportional
25	-	-	11	0-255	Green/Magenta (8 bit) - zone 3 Green LEDs saturation control (0-100%)	proportional
26	-	-	-	0-255	Green/Magenta fine (16 bit) - zone 3 Fine green LEDs saturation control	proportional
27	-	-	12	0-255	Blue/Yellow (8 bit) zone 3 Blue LEDs saturation control (0-100%)	proportional
28	-	-	-	0-255	Blue/Yellow fine (16 bit) zone 3 Fine blue LEDs saturation control	proportional
29	-	-	13	0-255	White (8 bit) zone 3 <i>If RGBW mode is selected:</i> White colour saturation control coarse (0-100%) <i>If CMY mode is selected:</i> No function	proportional
30	-	-	-	0-255	White fine (16 bit) zone 3 Fine white LEDs saturation control (RGBW mode)	proportional
31	-	-	-	0 1-255	CTC No function Colour temperature correction from 19000K to 2700K	step proportional

Mode/Channel				Value	Function	Type of control
5	6	7	8			
32	-	-	-		Virtual Colour Wheel For detailed description see " Virtual colour wheel- colour mixing chart	
				0	No function	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>Item Audio control = Off (channel Special Functions).</i> <i>The following effects can be controlled by the channel Special Functions (DMX values of 130-161)</i>					
	<i>Item Audio control = On (channel Special Functions).</i> <i>The following effects are controlled by sound</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	Random colour selection	step			
33	-	5	14	0-31	Shutter closed	step
				32-63	Strobe effect from slow--> fast (zones 2,3 only)	proportional
				64-95	Strobe effect from slow--> fast (All zones together)	proportional
				96-127	Reserved	
				128-143	Opening pulses in sequences from slow--> fast (All zones together)	proportional
				144-159	Closing pulses in sequences from fast--> slow (All zones together)	proportional
				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				
34	-	6	15	0-255	Dimmer (8 bit) Dimmer intensity from 0% to 100%	proportional
35	-	-	16	0-255	Dimmer fine (16 bit) Fine dimming	proportional

*In the Halogen lamp mode the Dimmer channel imitates behaviour of the halogen lamp during dimming.

Virtual colour wheel - colour mixing chart

Scale*	Virtual Colour Wheel	Red	Green	Blue	White
	DMX	DMX	DMX	DMX	DMX
1-15	1-2 (White 2700K)	250	118	0	63
	3 (White 2700K /Hal.mode/)	250	118	0	63
	4-5 (White 3200K)	255	141	5	89
	6 (White 3200K /Hal.mode/)	255	141	5	89
	7-9 (White 4200K)	254	141	3	255
	10-12 (White 5600K)	254	207	37	255
	13-15 (White 8000K)	228	255	79	255
16-63	16	0	0	255	0
	17	0	3	255	0
	18	0	6	255	0
	19	0	9	255	0
	20	0	12	255	0
	21	0	15	255	0
	22	0	18	255	0
	23	0	21	255	0
	24	0	24	255	0
	25	0	27	255	0
	26	0	30	255	0
	27	0	36	255	0
	28	0	41	255	0
	29	0	46	255	0
	30	0	52	255	0
	31	0	58	255	0
	32	0	64	255	0
	33	0	68	255	0
	34	0	74	255	0
	35	0	80	255	0
	36	0	86	255	0
	37	0	92	255	0
	38	0	98	255	0
	39	0	104	255	0
	40	0	110	255	0
	41	0	119	255	0
	42	0	129	255	0
	43	0	138	255	0
	44	0	147	255	0
	45	0	156	255	0
	46	0	165	255	0
	47	0	174	255	0
	48	0	183	255	0
	49	0	192	255	0
	50	0	201	255	0
	51	0	210	255	0
	52	0	219	255	0
	53	0	228	255	0
	54	0	237	255	0
	55	0	246	255	0
	56	0	255	255	0
	57	0	255	246	0
	58	0	255	237	0
	59	0	255	228	0
	60	0	255	219	0
	61	0	255	210	0
	62	0	255	201	0
	63	0	255	192	0

Scale*	Virtual Colour Wheel	Red	Green	Blue	White
	DMX	DMX	DMX	DMX	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

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

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

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

LED zone order

