

DMX protocol

Robin DL7F Wash - DMX protocol						
Version: 1.5 Mode 1 -CMY/RGB, Mode 2 -CMY/RGB reduced, Mode 3 -Seven colours, Mode 4 -Seven colours reduced						
Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
1	1	1	1		Pan	
				0 - 255	Pan movement by 540° (128=default)	proportional
2	2	2	2		Pan Fine	
				0 - 255	Fine control of pan movement (0=default)	proportional
3	3	3	3		Tilt	
				0 - 255	Tilt movement by 240° (128=default)	proportional
4	4	4	4		Tilt fine	
				0 - 255	Fine control of tilt movement (0=default)	proportional
5	5	5	5		Pan/Tilt speed , Pan/Tilt time	
				0	Max. speed - tracking mode (0=default)	step
					Pan/Tilt speed	
				1 - 255	Speed from max. to min. (vector mode)	proportional
					Pan/Tilt time	
				1 - 255	Time from 0.1 s to 25.5 sec.	proportional
6	6	6	6		Power/Special functions	
				0 -9	Reserved (0=default)	
					<i>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 32/28/40/32 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden.</i>	
				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	
				20-24	Graphic display On	step
				25-29	Graphic display Off	step
				30-39	Reserved	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
				60-69	Reserved	step
				70-74	Fans mode: Auto	step
				75-79	Fans mode: High	step
				80-84	Dimmer curve: Square law	step
				85-89	Dimmer curve: Linear	step
				90-129	Reserved	
					<i>To activate following functions, stop in DMX value for at least 3 seconds.</i>	
				130 - 139	Fixture reset (except pan/tilt)	
				140 - 149	Pan/Tilt reset	step
				150 - 169	Reserved	step
				170 - 179	Reserved	
				180 - 189	Zoom/frost reset	step
				190 - 199	Barndoors/scrims reset	step
				200 - 209	Total fixture reset	step
				210 - 239	Reserved	

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				240	Disable "Theatre mode"	step
				241 - 255	"Theatre mode" - fan noise control from min. to max.	proportional
7	7	7	7		Colour functions	
				0	No function (0=default) <i>To activate following functions, stop in DMX value for at least 3 seconds. Corresponding menu items are temporarily overridden</i>	
				1-4	Clear extended Special/Color settings* *	step
				5-9	Reserved	
				10-14	UV stability On	step
				15-19	UV stability Off	step
				20-24	Wavelength correction On	step
				25-29	Wavelength correction Off	step
				30-34	Colour calibration mode On	step
				35-39	Colour calibration mode Off	step
				40-44	Colour mixing mode: CMY	step
				45-49	Colour mixing mode: RGB	step
				50-54	Colour mixing mode 7 colours On (mode 3 and 4 only)	step
				55-59	Colour mixing mode 7 colours Off (mode 3 and 4 only)	step
				60-64	Output uniformity On (at selected CRI - (DMX values 151-155))	step
				65-69	Output uniformity Off	step
				70-74	Output mode: CRI	step
				75-79	Output mode: Intensity	step
					The Tungsten effects influence whites 2700K - 4200K at CTC channel.	
				80-84	Tungsten effect simulation (750W) On	step
				85-89	Tungsten effect simulation (1000W) On	step
				90-94	Tungsten effect simulation (1200W) On	step
				95-99	Tungsten effect simulation (2000W) On	step
				100-104	Tungsten effect simulation (2500W) On	step
				105-109	Tungsten effect simulation Off	step
				110-114	Save user colour	step
					Output consistency (CRI output mode only) up to:	
				115	30°C	step
				116	31°C	step
				117	32°C	step
				118	33°C	step
				119	34°C	step
				120	35°C	step
				121	36°C	step
				122	37°C	step
				123	38°C	step
				124	39°C	step
				125	40°C	step
				126	41°C	step
				127	42°C	step
				128	43°C	step
				129	44°C	step
				130	45°C	step
				131	46°C	step

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				132	47°C	step
				133	48°C	step
				134	49°C	step
				135	50°C	step
				136	51°C	step
				137	52°C	step
				138	53°C	step
				139	54°C	step
				140	55°C	step
				141	56°C	step
				142	57°C	step
				143	58°C	step
				144	59°C	step
				145	60°C	step
				146	61°C	step
				147	62°C	step
				148	63°C	step
				149	64°C	step
				150	65°C	step
					CRI selection (CRI output mode only)	
				151	CRI=70	step
				152	CRI=75	step
				153	CRI=80	step
				154	CRI=85	step
				155	CRI=90+	step
				156-159	Reserved	
				160-164	Chromatic white On	step
				165-169	Chromatic white Off	step
				170-255	Reserved	
8	8	8	8		Virtual colour wheel	
				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

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				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
				127-128	Filter 715 (Cabana Blue)	step
				129-130	Filter 778 (Millennium Gold)	step

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				131-132	Filter 793 (Vanity Fair)	step
				133-191	Reserved	step
				192-193	Deep Red	step
				194-195	Deep Blue	step
				196-197	Orange	step
				198-199	Green	step
				200-201	Magenta	step
				202-203	Congo Blue	step
				204-205	Pink	step
				206-207	Lavender	step
				208-209	Laser Green	step
				210-211	CTB	step
				212-213	Minus 1/1 Green	step
				214-215	Minus 1/2 Green	step
				216-217	User colour 1	step
				218-219	User colour 2	step
				220-221	User colour 3	step
				222-223	User colour 4	step
				224-225	User colour 5	step
				226-227	User colour 6	step
				228-229	User colour 7	step
				230-231	User colour 8	step
				232-233	User colour 9	step
				234-235	User colour 10	step
				236-245	Rainbow effect (with fade time) from slow-> fast	proportional
				246-255	Rainbow effect (without fade time) from slow-> fast	proportional
9	9	*	*		Cyan/Red(8 bit)	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
10	*	*	*		Cyan/Red(16 bit)	
				0 - 255	Colour saturation control - fine (255=default)	proportional
11	10	*	*		Magenta/Green (8 bit)	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
12	*	*	*		Magenta/Green (16 bit)	
				0 - 255	Colour saturation control - fine (255=default)	proportional
13	11	*	*		Yellow/Blue (8 bit)	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
14	*	*	*		Yellow/Blue (16 bit)	
				0 - 255	Colour saturation control - fine (255=default)	proportional
*	*	9	9		Red (8 bit)	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	10	*		Red (16bit)	
				0 - 255	Colour saturation control - fine (255=default)	proportional
*	*	11	10		Green (8 bit)	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	12	*		Green (16bit)	
				0 - 255	Colour saturation control - fine (255=default)	proportional
*	*	13	11		Blue (8 bit)	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
*	*	14	*		Blue(16bit)	
				0 - 255	Colour saturation control - fine (255=default)	proportional
*	*	15	12		Amber (8 bit)	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	16	*		Amber (16bit)	
				0 - 255	Colour saturation control - fine (255=default)	proportional
*	*	17	13		Cyan (8 bit)	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	18	*		Cyan (16bit)	
				0 - 255	Colour saturation control - fine (255=default)	proportional
*	*	19	14		Congo blue (8 bit)	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	20	*		Congo blue (16bit)	
				0 - 255	Colour saturation control - fine (255=default)	proportional
*	*	21	15		Light green (8 bit)	
				0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	22	*		Light green (16bit)	
				0 - 255	colour saturation control - fine (255=default)	proportional
15	12	23	16		Colour temperature correction (CTC)	
				0-4	8000K	step
				5-64	Colour temperature changing 7978K ->6622K (22K /1 DMX)	proportional
				65	6600K	step
				66-109	Colour temperature changing 6578K ->5622K (22K/1 DMX)	proportional
				110	5600K (default)	step
				111-179	Colour temperature changing 5580K ->4220K (20K/1 DMX)	proportional
				180	4200K	step
				181-229	Colour temperature changing 4180K ->3220K (20K/1 DMX)	proportional
				230	3200K	step
				231-254	Colour temperature changing 3180K ->2720K (20K /1 DMX)	proportional
				255	2700K	step
16	13	24	17		Green correction	
				0	Uncorrected white	step
				1-127	Minus green --> uncorrected white	proportional
				128	Uncorrected white (default)	step
				129-254	Uncorrected white --> Plus green	proportional
				255	Uncorrected white	step
17	14	25	18		Colour mix control	
					<i>Defines relation between colour channels</i>	
					"Virtual" = Virtual Colours (Virtual Colour Wheel)	
					"Colour mix" = Colour channels (RGB/CMY/R,G,B,A,C,Congo Blue,Light green/CTC/ Green Correction)	
					Range 0-69 DMX - only for Output mode: CRI	
				0-9	Virtual colours ("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

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				60-69	Inverted Subtraction mode (Virtual –Colour mix)	step
				70-79	White Point Off (CTC+Green Cor.+Virtual Col.Wheel deactivated)	step
				80-128	Reserved	
					Range 129-255 DMX - for both Output modes: CRI and Intensity	
				129	Virtual colours ("Virtual" has priority)	step
				130-254	Crossfade (crossfade between Virtual and Colour mix)	proportional
				255	Colour channels ("Colour mix" has priority)	step
18	15	26	19		Barndoors + Zoom + Frost time	
				0	Function is off (default)	step
				1 - 255	Time of barndoors, zoom and frost movement (0.1 sec-->25.5 sec.)	proportional
19	16	27	20		Scrim positioning	
				0	No function (default)	step
				1-255	Scrim inserting (0.5%-->100%)	proportional
20	17	28	21		Scrim indexing	
				0-255	Scrim indexing 0°-360° /1.4°per 1 DMX/ (128=default) (0 DMX=0°, 64DMX=90°, 128DMX=180°, 192DMX=270°, 255DMX=360°)	proportional
21	18	29	22		Frost	
				0 - 255	Frost from 0% to 100% (0=default)	proportional
22	19	30	23		Zoom	
				0 - 255	Zoom from max. to min.beam angle (128=default)	proportional
23	*	31	*		Zoom - fine	
				0-255	Fine zooming (0=default)	proportional
24	20	32	24		Edge colour correction	
				0-255	Fine correction of the colour of the image edge (0=default)	proportional
25	21	33	25		Barndoors rotation	
				0-255	Rotation 0°--> 180° (128=default)	proportional
26	22	34	26		Barndoor 1 - momement	
				0-255	Movement from Outward to Inward (0=default)	proportional
27	23	35	27		Barndoor 2 - momement	
				0-255	Movement from Outward to Inward (0=default)	proportional
28	24	36	28		Barndoor 3 - momement	
				0-255	Movement from Outward to Inward (0=default)	proportional
29	25	37	29		Barndoor 4 - momement	
				0-255	Movement from Outward to Inward (0=default)	proportional
30	26	38	30		Barndoors macros	
				0-3	No function (0=default)	
				4-7	Macro 1	step
				8-11	Macro 2	step
				12-15	Macro 3	step
				16-19	Macro 4	step
				20-23	Macro 5	step
				24-27	Macro 6	step
				28-31	Macro 7	step
				32-35	Macro 8	step
				36-39	Macro 9	step
				40-43	Macro 10	step
				44-47	Macro 11	step

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
				48-51	Macro 12	step
				52-55	Macro 13	step
				56-59	Macro 14	step
				60-63	Macro 15	step
				64-67	Macro 16	step
				68-71	Macro 17	step
				72-75	Macro 18	step
				76-79	Macro 19	step
				80-83	Macro 20	step
				84-87	Macro 21	step
				88-91	Macro 22	step
				92-95	Macro 23	step
				96-99	Macro 24	step
				100-103	Macro 25	step
				104-107	Macro 26	step
				108-111	Macro 27	step
				112-115	Macro 28	step
				116-119	Macro 29	step
				120-123	Macro 30	step
				124-127	Macro 31	step
				128-131	Macro 32	step
				132-135	Macro 33	step
				136-139	Macro 34	step
				140-143	Macro 35	step
				144-147	Macro 36	step
				148-151	Macro 37	step
				152-155	Macro 38	step
				156-159	Macro 39	step
				160-163	Macro 40	step
				164-167	Macro 41	step
				168-255	Reserved	
31	27	39	31		Barndoors macro speed	
				0 - 255	Speed from slow to fast. (128=default)	proportional
32	28	40	32		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
33	29	41	33		Dimmer intensity	
				0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
34	*	42	*		Dimmer intensity - fine	
				0 - 255	Fine dimming (0=default)	proportional

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Mode/channel				DMX Value	Function	Type of control
1	2	3	4			
**	Resets following items to their menu values:					
	Dimmer curve					
	Colour calibration mode					
	Colour mixing mode					
	Colour mixing mode 7 colours					
	Output uniformity On					
	Output uniformity					
	Output mode					
	Output consistency					
	CRI selection					
	UV stability					
	Wavelength correction					
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Colour macros on Virtual Colour Wheel							
Colour name	Red DMX	Green DMX	Blue DMX	Amber DMX	Cyan DMX	Congo Blue DMX	Light Green DMX
Filter 4 (Medium Bastard Amber)	255	125	27	255	0	0	88
Filter 10 (Medium Yellow)	255	65	0	255	0	0	170
Filter 19 (Fire)	255	0	0	255	0	0	5
Filter 26 (Bright Red)	255	0	0	16	0	0	0
Filter 58 (Lavender)	255	0	168	255	0	0	47
Filter 68 (Sky Blue)	111	0	255	0	255	0	0
Filter 71 (Tokyo Blue)	0	0	255	0	10	0	0
Filter 79 (Just Blue)	108	0	255	0	255	0	0
Filter 88 (Lime Green)	255	0	0	174	255	0	255
Filter 90 (Dark Yellow Green)	0	128	0	0	255	0	255
Filter 100 (Spring Yellow)	255	0	0	255	0	0	255
Filter 101 (Yellow)	255	0	0	255	0	0	189
Filter 102 (Light Amber)	255	0	16	255	0	0	206
Filter 103 (Straw)	255	255	16	255	0	0	90
Filter 104 (Deep Amber)	255	0	0	255	0	0	151
Filter 105 (Orange)	255	0	0	255	0	0	77
Filter 106 (Primary Red)	255	0	0	141	0	0	0
Filter 111 (Dark Pink)	255	0	28	255	0	0	82
Filter 115 (Peacock Blue)	0	255	133	0	255	0	194
Filter 116 (Medium Blue-Green)	0	255	68	0	255	0	116
Filter 117 (Steel Blue)	131	200	114	154	255	0	169
Filter 118 (Light Blue)	39	255	115	0	255	0	91
Filter 119 (Dark Blue)	0	43	255	0	255	0	0
Filter 120 (Deep Blue)	26	0	255	0	255	0	0
Filter 121 (Filter Green)	111	255	0	255	0	0	255
Filter 128 (Bright Pink)	255	0	26	156	0	0	0
Filter 131 (Marine Blue)	27	0	143	49	255	0	134
Filter 132 (Medium Blue)	27	255	255	0	255	0	0
Filter 134 (Golden Amber)	255	200	0	255	0	0	0
Filter 135 (Deep Golden Amber)	255	0	0	255	0	0	30
Filter 136 (Pale Lavender)	255	0	122	255	255	0	0
Filter 137 (Special Lavender)	255	0	122	255	255	0	99
Filter 138 (Pale Green)	255	255	22	255	0	0	255
Filter 139 (Primary Green)	0	255	0	0	0	0	60
Filter 141 (Bright Blue)	0	255	255	0	255	0	116
Filter 147 (Apricot)	255	0	7	255	0	0	138
Filter 148 (Bright Rose)	255	0	13	255	0	0	24
Filter 152 (Pale Gold)	255	0	28	255	0	0	133
Filter 154 (Pale Rose)	255	0	36	255	0	0	133
Filter 157 (Pink)	255	0	13	255	0	0	39
Filter 158 (Deep Orange)	255	0	0	255	0	0	46
Filter 162 (Bastard Amber)	255	255	26	255	0	0	66
Filter 164 (Flame Red)	255	0	0	255	0	0	0
Filter 165 (Daylight Blue)	71	255	255	0	255	0	0
Filter 169 (Lilac Tint)	255	0	62	255	255	0	0
Filter 170 (Deep Lavender)	255	0	129	255	255	0	0

Colour name	Red DMX	Green DMX	Blue DMX	Amber DMX	Cyan DMX	Congo Blue DMX	Light Green DMX
Filter 172 (Lagoon Blue)	0	0	255	0	255	0	255
Filter 179 (Chrome Orange)	255	0	0	255	0	0	135
Filter 180 (Dark Lavender)	100	0	255	47	120	0	0
Filter 181 (Congo Blue)	6	0	16	0	0	255	0
Filter 197 (Alice Blue)	36	36	255	36	255	0	0
Filter 201 (Full C.T. Blue)	118	36	255	36	255	0	255
Filter 202 (Half C.T. Blue)	146	133	255	130	255	0	141
Filter 203 (Quarter C.T. Blue)	255	255	202	255	255	0	255
Filter 204 (Full C.T. Orange)	255	125	0	255	0	0	49
Filter 205 (Half C.T. Orange)	255	125	21	255	31	0	111
Filter 206 (Quarter C.T. Orange)	255	125	64	255	31	0	111
Filter 247 (Filter Minus Green)	255	0	107	255	141	0	70
Filter 248 (Half Minus Green)	255	0	107	255	255	0	136
Filter 281 (Three Quarter C.T. Blue)	112	0	219	95	255	0	255
Filter 285 (Three Quarter C.T. Orange)	255	0	0	255	0	0	152
Filter 352 (Glacier Blue)	51	90	255	0	255	0	164
Filter 353 (Lighter Blue)	51	255	255	0	255	0	255
Filter 715 (Cabana Blue)	21	0	255	0	255	0	0
Filter 778 (Millennium Gold)	255	0	0	255	0	0	50
Filter 793 (Vanity Fair)	255	0	84	255	0	0	0
Deep Red	255	0	0	0	0	0	0
Deep Blue	0	0	255	0	0	15	0
Orange	44	18	0	255	0	0	0
Green	0	255	0	0	66	0	18
Magenta	255	0	209	299	0	0	5
Congo Blue	4	0	5	0	0	255	0
Pink	255	0	175	255	0	0	89
Lavender	255	172	255	100	255	0	254
Laser Green	122	255	0	255	140	0	254
CTB	229	255	156	255	255	0	255
Minus 1/1 Green	255	247	151	255	0	0	255
Minus 1/2 Green	255	255	128	255	124	0	255