

DMX protocol

Robin T11 - DMX protocol

Version: 1.5 (8 modes)

Short description of modes

Mode	Description
1	16-bit CMY/RGB, 18 channels
2	8-bit CMY/RGB, 9 channels
3	16-bit RGBAL, 22 channels
4	White light+dimmer , 6 channels
5	Only Dimmer , 1 channel
6	16-bit CMY/RGB + gobos+iris (for optional drop-in module), 24 channels
7	8-bit CMY/RGB +gobos+iris (for optional drop-in module), 13 channels
8	16-bit RGBAL + gobos+iris (for optional drop-in module), 28 channels

Quick overview of default DMX values for each channel

Mode/channel					Default DMX Value	Function
1	2	3	4	5		
1	1	1	1	*	0	Power/Special functions
2	*	2	*	*	10	LED frequency selection
3	*	3	*	*	128	LED frequency fine adjusting
4	2	4	*	*	0	Colour functions
5	3	5	2	*	0	CRI selection
6	*	6	*	*	0	Virtual colour wheel
7	4	*	*	*	0/255	Cyan/Red (8 bit) (0=default for CMY mode, 255=default for RGB mode)
8	*	*	*	*	0/255	Cyan/Red (16 bit) (0=default for CMY mode, 255=default for RGB mode)
9	5	*	*	*	0/255	Magenta/Green (8 bit) (0=default for CMY mode, 255=default for RGB mode)
10	*	*	*	*	0/255	Magenta/Green (16 bit) (0=default for CMY mode, 255=default for RGB mode)
11	6	*	*	*	0/255	Yellow/Blue (8 bit) (0=default for CMY mode, 255=default for RGB mode)
12	*	*	*	*	0/255	Yellow/Blue (16 bit) (0=default for CMY mode, 255=default for RGB mode)
*	*	7	*	*	255	Red (8 bit)
*	*	8	*	*	255	Red (16bit)
*	*	9	*	*	255	Green (8 bit)
*	*	10	*	*	255	Green (16bit)
*	*	11	*	*	255	Blue (8 bit)
*	*	12	*	*	255	Blue (16bit)
*	*	13	*	*	255	Amber (8 bit)
*	*	14	*	*	255	Amber (16bit)
*	*	15	*	*	255	Lime (8 bit)
*	*	16	*	*	255	Lime (16bit)
13	7	17	3	*	110	Colour temperature correction (CCT)
14	*	18	4	*	128	Green correction
15	*	19	*	*	0	Colour mix control
16	8	20	*	*	32	Shutter/ strobe
17	9	21	5	1	0	Dimmer intensity
18	*	22	6	*	0	Dimmer intensity - fine

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Mode/channel					DMX Value	Function	Type of control
1	2	3	4	5			
1	1	1	1	*		Power/Special functions	
						Factory display menu setting: DMX Input-Wired ,Graphic display-On, Blackout while gobo wheel moving-Off, Fans mode-Auto, Dimmer Curve: Square law	
					0 -19	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 16/8/20 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden.</i>	
					20-24	Display: On	step
					25-29	Display: Off	step
					30-59	Reserved	
					60-64	Blackout while gobo wheel moving: On	step
					65-69	Blackout while gobo wheel moving: Off	step
					70-74	Fans mode: Auto	step
					75-79	Reserved	
					80-84	Quiet mode: Fans On at blackout	step
					85-89	Quiet mode: Fans Off at blackout	step
					90-129	Reserved	
						<i>To activate following functions, stop in DMX value for at least 3 seconds.</i>	
					130-134	Simple mode off	step
					135 - 159	Reserved	
					160 - 169	Gobos reset (optional module)	step
					170 - 189	Reserved	
					190 - 199	Iris reset (optional module)	step
					200 - 209	Total fixture reset	step
					210 - 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
					225-239	Reserved	
					240	Disabled "Quiet mode"	step
					241 - 255	Quiet mode - fan noise control from min. to max.	proportional
2	*	2	*	*		LED frequency selection	
						Factory display menu setting: 600Hz	
						<i>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.</i>	
					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
					25-29	High	step
					30-255	Reserved (fixture utilizes PWM frequency set in the display menu item Frequency Setup).	

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Mode/channel					DMX Value	Function	Type of control
1	2	3	4	5			
3	*	3	*	*		LED frequency fine adjusting Factory display menu setting: 600Hz <i>Select desired PWM output frequency of LEDs on the channel above.</i>	
					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
4	2	4	*	*		Colour functions Factory display menu setting: Colour mixing mode-CMY, Dimmer Curve-Square Law, Tungsten effect simulation-Off, Chromatic white-Off, Light output stability-Off, Uniformity-Off	
					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>	step
					1-39	Reserved	
					40-44	Colour mixing mode: CMY (DMX Mode 1, 2, 6 and 8 only)	step
					45-49	Colour mixing mode: RGB (DMX mode 1,2,6 and 7), RGBAL (DMX mode 3 and 8 only)	step
					50-54	Dimmer curve: Square law	step
					55-59	Dimmer curve: Linear	step
					60-64	Dimmer curve: Super square law	step
					65-79	Raw DMX	proportional
						<i>Tungsten effect simulation for whites 2700K-4200K only:</i>	
					80-84	Tungsten effect simulation (750W/80V): On	step
					85-89	Tungsten effect simulation (1000W/240V): On	step
					90-94	Tungsten effect simulation (1200W/240V): On	step
					95-99	Tungsten effect simulation (2000W/230V): On	step
					100-104	Tungsten effect simulation (2500W/230V): On	step
					105-109	Tungsten effect simulation: Off	step
					110-114	Save user colour (see user manual)	step
					115-119	Chromatic white: On	step
					120-124	Chromatic white: Off	step
					125-129	Light output stability On	step
					130-134	Light output stability Off	step
					135-139	Uniformity On	step
					140-144	Uniformity Off	step
					145-255	Reserved	

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Mode/channel					DMX Value	Function	Type of control
1	2	3	4	5			
5	3	5	2	*	0-255	CRI selection CRI selection from Standard (80) to High (90+) (0=default)	proportional
6	*	6	*	*		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
					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

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Mode/channel					DMX Value	Function	Type of control
1	2	3	4	5			
					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
					131-132	Filter 793 (Vanity Fair)	step
					133-215	Reserved	
					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
7	4	*	*	*		Cyan/Red (8 bit)	
					0 - 255	Colour saturation control - coarse 0-100% (0=default for CMY mode, 255=default for RGB mode)	proportional
8	*	*	*	*		Cyan/Red (16 bit)	
					0 - 255	Colour saturation control - fine (0=default for CMY mode, 255=default for RGB mode)	proportional
9	5	*	*	*		Magenta/Green (8 bit)	
					0 - 255	Colour saturation control - coarse 0-100% (0=default for CMY mode, 255=default for RGB mode)	proportional
10	*	*	*	*		Magenta/Green (16 bit)	
					0 - 255	Colour saturation control - fine (0=default for CMY mode, 255=default for RGB mode)	proportional
11	6	*	*	*		Yellow/Blue (8 bit)	

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Mode/channel					DMX Value	Function	Type of control
1	2	3	4	5			
					0 - 255	Colour saturation control - coarse 0-100% (0=default for CMY mode, 255=default for RGB mode)	proportional
12	*	*	*	*		Yellow/Blue (16 bit)	
					0 - 255	Colour saturation control - fine (0=default for CMY mode, 255=default for RGB mode)	proportional
*	*	7	*	*		Red (8 bit)	
					0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	8	*	*		Red (16bit)	
					0 - 255	Colour saturation control - fine (255=default)	proportional
*		9	*	*		Green (8 bit)	
					0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*		10	*	*		Green (16bit)	
					0 - 255	Colour saturation control - fine (255=default)	proportional
*		11	*	*		Blue (8 bit)	
					0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*		12	*	*		Blue (16bit)	
					0 - 255	Colour saturation control - fine (255=default)	proportional
*		13	*	*		Amber (8 bit)	
					0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*		14	*	*		Amber (16bit)	
					0 - 255	Colour saturation control - fine (255=default)	proportional
*		15	*	*		Lime (8 bit)	
					0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*		16	*	*		Lime (16bit)	
					0 - 255	colour saturation control - fine (255=default)	proportional
13	7	17	3	*		Colour temperature (CCT)	
					0-1	8000 K	step
					2-64	Colour temperature changing 7978 K ->6622 K (22 K /1 DMX)	proportional
					65	6600 K	step
					66-109	Colour temperature changing 6578 K ->5622 K (22 K/1 DMX)	proportional
					110	5600 K (110=default)	step
					111-179	Colour temperature changing 5580 K ->4220 K (20 K/1 DMX)	proportional
					180	4200 K	step
					181-229	Colour temperature changing 4180 K ->3220 K (20 K/1 DMX)	proportional
					230	3200 K	step
					231-254	Colour temperature changing 3180 K ->2720 K (20K /1 DMX)	proportional
					255	2700K	step
14	*	18	4	*		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
15	*	19	*	*		Colour mix control	
						<i>Defines relation between Virtual Colour wheel and colour channels</i>	
						"Virtual" = Virtual Colour Wheel	
						"Colour mix" = Colour channels (CMY/RGBAL/CCT)	
					0-9	"Virtual " has priority over "Colour mix" (0=default)	
					10-19	Maximum mode (highest values have priority)	step

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Mode/channel					DMX Value	Function	Type of control
1	2	3	4	5			
					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")	step
					50-59	Subtraction mode ("Virtual" – "Colour mix")	step
					60-69	Inverted Subtraction mode ("Colour mix"-"Virtual")	step
					70-79	White Point Off (CCT+Green Cor.+Virtual Colour Wheel deactivated)	step
					80-128	Reserved	
					129	Crossfade "Virtual" only	step
					130-254	Crossfade between "Virtual" and "Colour mix"	proportional
					255	Crossfade "Colour mix" only	step
16	8	20	*	*		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
17	9	21	5	1		Dimmer intensity	
					0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
18	*	22	6	*		Dimmer intensity - fine	
					0 - 255	Fine dimming (0=default)	proportional
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Version: 1.5

Quick overview of default DMX values for each channel

Mode/channel			Default DMX Value	Function
6	7	8		
1	1	1	0	Power/Special functions
2	*	2	10	LED frequency selection
3	*	3	128	LED frequency fine adjusting
4	2	4	0	Colour functions
5	3	5	0	CRI selection
6	*	6	0	Virtual colour wheel
7	4	*	0/255	Cyan/Red (8 bit) (0=default for CMY mode, 255=default for RGB mode)
8	*	*	0/255	Cyan/Red (16 bit) (0=default for CMY mode, 255=default for RGB mode)
9	5	*	0/255	Magenta/Green (8 bit) (0=default for CMY mode, 255=default for RGB mode)
10	*	*	0/255	Magenta/Green (16 bit) (0=default for CMY mode, 255=default for RGB mode)
11	6	*	0/255	Yellow/Blue (8 bit) (0=default for CMY mode, 255=default for RGB mode)
12	*	*	0/255	Yellow/Blue (16 bit) (0=default for CMY mode, 255=default for RGB mode)
*	*	7	255	Red (8 bit)
*	*	8	255	Red (16bit)
*	*	9	255	Green (8 bit)
*	*	10	255	Green (16bit)
*	*	11	255	Blue (8 bit)
*	*	12	255	Blue (16bit)
*	*	13	255	Amber (8 bit)
*	*	14	255	Amber (16bit)
*	*	15	255	Lime (8 bit)
*	*	16	255	Lime (16bit)
13	7	17	110	Colour temperature correction (CTC)
14	*	18	128	Green correction
15	*	19	0	Colour mix control
16	8	20	0	Static gobo wheel (optional module)
17	9	21	0	Rotating gobo wheel (optional module)
18	10	22	128	Rot. gobo indexing and rotation (optional module)
19	*	23	0	Rot. gobo indexing/rotation - fine (optional module)
20	11	24	0	Iris (optional module)
21	*	25	0	Iris - fine (optional module)
22	12	26	32	Shutter/ strobe
23	13	27	0	Dimmer intensity
24	*	28	0	Dimmer intensity - fine

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Mode/channel			DMX Value	Function	Type of control
6	7	8			
1	1	1		Power/Special functions	
				Factory display menu setting: DMX Input-Wired ,Graphic display-On, Blackout while gobo wheel moving-Off, Fans mode-Auto, Dimmer Curve: Square law	
			0 -19	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 22/12/26 must be at range: 0-31 DMX). Corresponding menu items are temporarily overridden.</i>	
			20-24	Display: On	step
			25-29	Display: Off	step
			30-59	Reserved	
			60-64	Blackout while gobo wheel moving: On	step
			65-69	Blackout while gobo wheel moving: Off	step
			70-74	Fans mode: Auto	step
			75-79	Reserved	
			80-84	Quiet mode: Fans On at blackout	step
			85-89	Quiet mode: Fans Off at blackout	step
			90-129	Reserved	
				<i>To activate following functions, stop in DMX value for at least 3 seconds.</i>	
			130-134	Simple mode off	step
			135 - 159	Reserved	
			160 - 169	Gobos reset (optional module)	step
			170 - 189	Reserved	
			190 - 199	Iris reset (optional module)	step
			200 - 209	Total fixture reset	step
			210 - 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
			225-239	Reserved	
			240	Disabled "Quiet mode"	step
			241 - 255	Quiet mode - fan noise control from min. to max.	proportional
2	*	2		LED frequency selection	
				Factory display menu setting: 600Hz	
				<i>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.</i>	
			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
			25-29	High	step
			30-255	Reserved (fixture utilizes PWM frequency set in the display menu item Frequency Setup).	

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Mode/channel			DMX Value	Function	Type of control
6	7	8			
3	*	3		LED frequency fine adjusting Factory display menu setting: 600Hz <i>Select desired PWM output frequency of LEDs on the channel above.</i>	
			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
4	2	4		Colour functions Factory display menu setting: Colour mixing mode-CMY, Dimmer Curve-Square Law, Tungsten effect simulation-Off, Chromatic white-Off, Light output stability-Off, Uniformity-Off	
			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>	step
			1-39	Reserved	
			40-44	Colour mixing mode: CMY (DMX Mode 1, 2, 6, 7 only)	step
			45-49	Colour mixing mode: RGB (DMX mode 1,2,6,7) RGBAL (DMX mode 3,8 only)	step
			50-54	Dimmer curve: Square law	step
			55-59	Dimmer curve: Linear	step
			60-64	Dimmer curve: Super square law	step
			65-79	Raw DMX <i>Tungsten effect simulation for whites 2700K-4200K only:</i>	proportional
			80-84	Tungsten effect simulation (750W/80V): On	step
			85-89	Tungsten effect simulation (1000W/240V): On	step
			90-94	Tungsten effect simulation (1200W/240V): On	step
			95-99	Tungsten effect simulation (2000W/230V): On	step
			100-104	Tungsten effect simulation (2500W/230V): On	step
			105-109	Tungsten effect simulation: Off	step
			110-114	Save user colour (see user manual)	step
			115-119	Chromatic white: On	step
			120-124	Chromatic white: Off	step
			125-129	Light output stability On	step
			130-134	Light output stability Off	step
			135-139	Uniformity On	step
			140-144	Uniformity Off	step
			145-255	Reserved	

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Mode/channel			DMX Value	Function	Type of control
6	7	8			
5	3	5		CRI selection	
			0-255	CRI selection from Standard (80) to High (90+) (0=default)	proportional
6	*	6		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
			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

DMX protocol

Mode/channel			DMX Value	Function	Type of control
6	7	8			
			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
			131-132	Filter 793 (Vanity Fair)	step
			133-215	Reserved	
			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
7	4	*		Cyan/Red (8 bit)	
			0 - 255	Colour saturation control - coarse 0-100% (0=default for CMY mode, 255=default for RGB mode)	proportional
8	*	*		Cyan/Red (16 bit)	
			0 - 255	Colour saturation control - fine (0=default for CMY mode, 255=default for RGB mode)	proportional
9	5	*		Magenta/Green (8 bit)	
			0 - 255	Colour saturation control - coarse 0-100% (0=default for CMY mode, 255=default for RGB mode)	proportional
10	*	*		Magenta/Green (16 bit)	
			0 - 255	Colour saturation control - fine (0=default for CMY mode, 255=default for RGB mode)	proportional
11	6	*		Yellow/Blue (8 bit)	

DMX protocol

Mode/channel			DMX Value	Function	Type of control
6	7	8			
			0 - 255	Colour saturation control - coarse 0-100% (0=default for CMY mode, 255=default for RGB mode)	proportional
12	*	*		Yellow/Blue (16 bit)	
			0 - 255	Colour saturation control - fine (0=default for CMY mode, 255=default for RGB mode)	proportional
*	*	7		Red (8 bit)	
			0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*	*	8		Red (16bit)	
			0 - 255	Colour saturation control - fine (255=default)	proportional
*		9		Green (8 bit)	
			0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*		10		Green (16bit)	
			0 - 255	Colour saturation control - fine (255=default)	proportional
*		11		Blue (8 bit)	
			0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*		12		Blue (16bit)	
			0 - 255	Colour saturation control - fine (255=default)	proportional
*		13		Amber (8 bit)	
			0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*		14		Amber (16bit)	
			0 - 255	Colour saturation control - fine (255=default)	proportional
*		15		Lime (8 bit)	
			0 - 255	Colour saturation control - coarse 0-100% (255=default)	proportional
*		16		Lime (16bit)	
			0 - 255	colour saturation control - fine (255=default)	proportional
13	7	17		Colour temperature (CCT)	
			0-1	8000 K	step
			2-64	Colour temperature changing 7978 K ->6622 K (22 K /1 DMX)	proportional
			65	6600 K	step
			66-109	Colour temperature changing 6578 K ->5622 K (22 K/1 DMX)	proportional
			110	5600 K (110=default)	step
			111-179	Colour temperature changing 5580 K ->4220 K (20 K/1 DMX)	proportional
			180	4200 K	step
			181-229	Colour temperature changing 4180 K ->3220 K (20 K/1 DMX)	proportional
			230	3200 K	step
			231-254	Colour temperature changing 3180 K ->2720 K (20K /1 DMX)	proportional
			255	2700K	step
14	*	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
15	*	19		Colour mix control	
				<i>Defines relation between Virtual Colour wheel and colour channels</i>	
				"Virtual" = Virtual Colour Wheel	
				"Colour mix" = Colour channels (CMY/RGBAL/CTC)	
			0-9	"Virtual " has priority over "Colour mix" (0=default)	
			10-19	Maximum mode (highest values have priority)	step

DMX protocol

Mode/channel			DMX Value	Function	Type of control
6	7	8			
			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")	step
			50-59	Subtraction mode ("Virtual" – "Colour mix")	step
			60-69	Inverted Subtraction mode ("Colour mix"-"Virtual")	step
			70-79	White Point Off (CCT+Green Cor.+Virtual Colour Wheel deactivated)	step
			80-128	Reserved	
			129	Crossfade "Virtual" only	step
			130-254	Crossfade between "Virtual" and "Colour mix"	proportional
			255	Crossfade "Colour mix" only	step
16	8	20		Static gobo wheel (optional module)	
			0-4	Open/hole (0=default)	step
				<i>Positioning</i>	
			5-9	Gobo 1	step
			10-14	Gobo 2	step
			15-19	Gobo 3	step
			20 - 255	Open/hole	step
17	9	21		Rotating gobo wheel (optional module)	
				<i>Index - set indexing on channel 18/10/22</i>	
			0-4	Open/hole (0=default)	step
			5-9	Gobo 1	step
			10-14	Gobo 2	step
				<i>Rotation - set rotation on channel 18/10/22</i>	
			15-19	Gobo 1	step
			20-24	Gobo 2	step
			25 - 255	Open/hole	step
18	10	22		Rot. gobo indexing and rotation (optional module)	
				<i>Gobo indexing - set position on channel 17/9/21</i>	
			0 - 255	Gobo indexing	proportional
				<i>Gobo rotation - set position on channel 17/9/21</i>	
			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
19	*	23		Rot. gobo indexing/rotation - fine (optional module)	
			0-255	Fine indexing/rotation (0=default)	proportional
20	11	24		Iris (optional module)	
			0	Open (0=default)	step
			1 - 179	From max.diameter to min.diameter	proportional
			180 - 191	Closed	step
				<i>Pulse effects with Iris blackout</i>	
			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
21	*	25		Iris - fine (optional module)	

DMX protocol

Mode/channel			DMX Value	Function	Type of control
6	7	8			
			0 - 255	Fine iris movement (0=default)	proportional
22	12	26		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
23	13	27		Dimmer intensity	
			0 - 255	Dimmer intensity from 0% to 100% (0=default)	proportional
24	*	28		Dimmer intensity - fine	
			0 - 255	Fine dimming (0=default)	proportional
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T11 - Colours on Virtual Colour Wheel					
Colour name	Red DMX	Green DMX	Blue DMX	Amber DMX	Lime DMX
Filter 4 (Medium Bastard Amber)	255	47	7	255	80
Filter 10 (Medium Yellow)	255	65	0	255	132
Filter 19 (Fire)	255	0	0	186	1
Filter 26 (Bright Red)	255	0	0	25	0
Filter 58 (Lavender)	255	0	68	255	44
Filter 68 (Sky Blue)	132	190	159	0	36
Filter 71 (Tokyo Blue)	0	0	255	0	0
Filter 79 (Just Blue)	123	147	171	0	56
Filter 88 (Lime Green)	255	237	2	198	185
Filter 90 (Dark Yellow Green)	0	255	2	0	169
Filter 100 (Spring Yellow)	255	0	0	255	223
Filter 101 (Yellow)	255	0	0	255	157
Filter 102 (Light Amber)	255	142	4	255	73
Filter 103 (Straw)	255	138	4	255	97
Filter 104 (Deep Amber)	255	0	0	255	124
Filter 105 (Orange)	255	0	0	255	60
Filter 106 (Primary Red)	255	0	0	104	0
Filter 111 (Dark Pink)	255	0	11	255	59
Filter 115 (Peacock Blue)	0	255	31	0	72
Filter 116 (Medium Blue-Green)	0	255	20	0	63
Filter 117 (Steel Blue)	45	255	42	158	183
Filter 118 (Light Blue)	4	255	37	0	77
Filter 119 (Dark Blue)	0	165	118	0	0
Filter 120 (Deep Blue)	3	165	111	0	0
Filter 121 (Filter Green)	84	255	0	235	24
Filter 128 (Bright Pink)	255	0	10	127	0
Filter 131 (Marine Blue)	0	255	75	51	116
Filter 132 (Medium Blue)	0	255	102	0	42
Filter 134 (Golden Amber)	255	51	0	255	42
Filter 135 (Deep Golden Amber)	255	35	0	255	0
Filter 136 (Pale Lavender)	184	7	51	255	60
Filter 137 (Special Lavender)	231	63	43	255	99
Filter 138 (Pale Green)	255	224	6	255	200
Filter 139 (Primary Green)	0	255	0	0	84
Filter 141 (Bright Blue)	0	255	77	0	82
Filter 147 (Apricot)	255	0	4	255	115
Filter 148 (Bright Rose)	255	0	7	255	13
Filter 152 (Pale Gold)	255	0	11	255	112
Filter 154 (Pale Rose)	255	0	16	255	119
Filter 157 (Pink)	255	0	7	255	27
Filter 158 (Deep Orange)	255	0	0	255	30
Filter 162 (Bastard Amber)	255	175	7	255	50
Filter 164 (Flame Red)	255	0	0	142	0
Filter 165 (Daylight Blue)	12	255	158	3	156
Filter 169 (Lilac Tint)	255	12	27	255	61
Filter 170 (Deep Lavender)	255	0	65	255	90
Filter 172 (Lagoon Blue)	0	238	113	0	255

Colour name	Red DMX	Green DMX	Blue DMX	Amber DMX	Lime DMX
Filter 179 (Chrome Orange)	255	0	0	255	112
Filter 180 (Dark Lavender)	92	15	188	76	46
Filter 181 (Congo Blue)	185	0	214	0	0
Filter 197 (Alice Blue)	0	249	163	39	0
Filter 201 (Full C.T. Blue)	38	150	97	36	246
Filter 202 (Half C.T. Blue)	164	13	123	34	255
Filter 203 (Quarter C.T. Blue)	255	203	54	104	255
Filter 204 (Full C.T. Orange)	255	125	0	255	4
Filter 205 (Half C.T. Orange)	255	139	5	255	67
Filter 206 (Quarter C.T. Orange)	255	60	17	255	98
Filter 247 (Filter Minus Green)	255	28	36	255	56
Filter 248 (Half Minus Green)	255	20	45	255	200
Filter 281 (Three Quarter C.T. Blue)	38	255	102	136	227
Filter 285 (Three Quarter C.T. Orange)	255	0	0	255	121
Filter 352 (Glacier Blue)	16	255	119	5	149
Filter 353 (Lighter Blue)	14	255	66	0	157
Filter 715 (Cabana Blue)	0	222	182	0	0
Filter 778 (Millennium Gold)	255	0	0	255	37
Filter 793 (Vanity Fair)	255	0	26	171	0