

**FUSION**  
by GLP

# Fusion XPAR 12Z

## DMX Channel Index



Software version 1.0.0.2



GLP® Fusion XPAR 12Z User Manual – Revision A

This document covers fixture software version 1.0.0.2

---

© 2018-2022 German Light Products GmbH. All rights reserved.

The marks 'GLP' and 'German Light Products' are trademarks registered as the property of German Light Products GmbH in Germany, in the United States of America and in other countries.

The information contained in this document is subject to change without notice. German Light Products GmbH and all affiliated companies disclaim liability for any injury, damage, direct or indirect loss, consequential or economic loss or any other loss occasioned by the use of, inability to use or reliance on the information contained in this document.

Manufacturer's head office:

German Light Products GmbH (GLP), Industriestrasse 2, 76307 Karlsbad, Germany  
Tel (Germany): +49 7248 92719 - 0

Service & Support EMEA:

GLP, Industriestrasse 2, 76307 Karlsbad, Germany  
Tel. (Germany): +49 7248 9271955  
Email: [support@glp.de](mailto:support@glp.de)  
[www.glp.de](http://www.glp.de)

Service & Support USA:

GLP USA, 1145 Arroyo St., Ste. A, 91340 San Fernando, California  
Tel (USA): +1 818 767 8899  
Support (US): [info@germanlightproducts.com](mailto:info@germanlightproducts.com)  
[www.germanlightproducts.com](http://www.germanlightproducts.com)

## 1. DMX control modes overview

The following DMX control modes are available in the XPAR 12Z.

**DMX Mode 1: Basic** gives raw color control using 8-bit RGB levels, with overall dimmer and shutter controls. The Lime channel has no effect unless the fixture Color Mode is set to RGBL.

A Control / Settings channel lets you configure the fixture remotely via DMX.

### Mode 1 Basic

1	Dimmer
2	Shutter
3	Zoom
4	Control
5	Red
6	Green
7	Blue
8	Lime

**DMX Mode 2: Standard** provides a selection of fixed colors with overall dimmer and shutter controls. If Channel 9 is set below DMX 10 (3.9%) then the color can be controlled by the RGB(L) channels - the Lime channel has no effect unless the fixture Color Mode is set to RGBL. If Channel 9 is DMX 10 or above, Channels 5-8 have no effect.

The CTC and M/G shift channels modify the color selected by the other channels.

A Control / Settings channel lets you configure the fixture remotely via DMX.

### Mode 2 Standard

1	Dimmer
2	Shutter
3	Zoom
4	Control
5	Red
6	Green
7	Blue
8	Lime
9	Color Wheel
10	CTC
11	M/G shift

**DMX Mode 3: Advanced** provides a selection of fixed colors with overall 16-bit dimmer and a shutter control. If Channel 14 is set below DMX 10 (3.9%) then the color can be controlled by the 16-bit RGB(L) channels - the Lime channels have no effect unless the fixture Color Mode is set to RGBL. If Channel 14 is DMX 10 or above, Channels 6-13 have no effect.

The CTC and M/G shift channels modify the color selected by the other channels.

A Control / Settings channel lets you configure the fixture remotely via DMX.

### Mode 3 Advanced

1	Dimmer
2	Dimmer Fine
3	Shutter
4	Zoom
5	Control
6	Red
7	Red fine
8	Green
9	Green fine
10	Blue
11	Blue fine
12	Lime
13	Lime fine
14	Color wheel
15	CTC
16	M/G shift

**DMX Mode 4: RGB(L)** gives raw color control using 8-bit RGB levels. The Lime channel has no effect unless the fixture Color Mode is set to RGBL. There is no master dimmer control.

A Control / Settings channel lets you configure the fixture remotely via DMX.

Mode 4 RGB(L)	
------------------	--

1	Zoom
2	Control
3	Red
4	Green
5	Blue
6	Lime

**DMX Mode 5: White** operates the fixture as a white light with controllable Color Temperature and Green/magenta shift

A Control / Settings channel lets you configure the fixture remotely via DMX.

Mode 5 White	
-----------------	--

1	Dimmer
2	Shutter
3	Zoom
4	Control
5	CTC
6	Green/Magenta shift

**DMX Mode 6: Easy** provides a simple operating mode with a fixed selection of colors and zoom.

A Control / Settings channel lets you configure the fixture remotely via DMX.

Mode 6 Easy	
----------------	--

1	Dimmer
2	Zoom
3	Control
4	Color Wheel

## 2. DMX control channel layout

In the following DMX channel layout tables:

- Where commands are marked with an asterisk \* you must send that value continuously for 3 seconds (or other duration if indicated in the table) to apply the command.

### DMX Mode 1: Basic

#### 8 DMX Channels

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	<b>Master Dimmer</b>	Intensity 0-100%	0-255	0-100%	0	Fade
		Closed	0-4	0-1.6%	255	Snap
2	<b>Shutter</b>	Single Flash (when value changes)	5-9	1.9-3.5%		Snap
		Sync Ramp-Up (slow→fast)	10-39	3.9-15.3%		Fade
		Sync Ramp-down (slow→fast)	40-69	15.7-27%		Fade
		Sync Ramp up-down (slow→fast)	70-99	27.4-38.9%		Fade
		Sync Double Flash (slow→fast)	100-129	39.2-50.6%		Fade
		Random Strobe (slow→fast)	130-359	51-62%		Fade
		Sync Strobe (1Hz-10Hz)	160-239	62.8-93.7%		Fade
		Open	251-255	98.4-100%		Snap
		3	<b>Zoom</b>	Beam angle 6-43 degrees	0-255	0-100%
4	<b>Control / Settings</b>	No function	0-35	0-13.7%	0	Snap
		Color Mode: RGB HO (Calibrated)*	36-40	14.0-15.6%		
		Color Mode: RGB HQ (Calibrated)*	41-45	16.0-17.6%		
		Color Mode: RGBL *	46-50	18.0-19.6%		
		No function	51-55	20.0-21.6%		
		Dimmer speed smooth*	56-60	22.0-23.5%		
		Dimmer speed fast*	61-65	23.9-25.5%		
		No function	66-70	25.9-27.5%		
		Dimming curve Linear*	71-75	27.8-29.4%		
		Dimming curve Theatrical*	76-80	29.8-31.4%		
		Dimming curve Square Law*	81-85	31.8-33.3%		
		Dimming curve Inverse Square Law*	86-90	33.7-35.3%		
		No Function	91-95	35.7-37.3%		
		No DMX = Hold scene*	96-100	37.6-39.2%		
		No DMX = Blackout*	101-105	39.6-41.2%		
		No DMX = Play captured scene*	106-110	41.6-43.1%		
		No Function	111-115	43.5-45.1%		
		Display backlight Auto*	116-120	45.5-47.1%		
		Display backlight Off*	121-125	47.5-49.0%		
		No Function	126-130	49.4-51.2%		
		DMX Mode: M1-Basic*	131-135	51.4-52.9%		
		DMX Mode: M2-Standard*	136-140	53.3-54.9%		
		DMX Mode: M3-Advanced*	141-145	55.3-56.9%		
		DMX Mode: M4-RGB(L)*	146-150	57.3-58.8%		
		DMX Mode: M5-White*	151-155	59.2-60.8%		
		DMX Mode: M6-Easy*	156-160	61.2-62.7%		
		No Function	161-165	63.1-64.7%		
		Zoom Invert On*	166-170	65.1-66.7%		
Zoom Invert Off*	171-175	67.1-68.5%				

Channel	Command	DMX range	Percent	Default DMX	Fade	
	Zoom Reset*	176-180	69.0-70.5%			
	Fixture reset*	181-185	71.0-72.5%			
	Factory default settings (except DMX address & mode)*	186-190	72.9-74.5%			
	No function	191-195	74.9-76.2%			
	PWM Rate: 600Hz	196-200	76.9-78.4%			
	PWM Rate: 1200Hz	201-205	78.8-80.4%			
	PWM Rate: 2200Hz	206-210	80.8-82.4%			
	PWM Rate: 3000Hz	211-215	82.7-84.3%			
	PWM Rate: 4800Hz	216-220	84.7-86.3%			
	PWM Rate: 9600Hz	221-225	86.7-88.2%			
	PWM Rate: 25KHz	226-230	88.6-90.2%			
	No function	231-252	90.6-100%			
<b>5</b>	<b>Red</b>	Intensity 0-100%	0-255	0-100%	0	Fade
<b>6</b>	<b>Green</b>	Intensity 0-100%	0-255	0-100%	0	Fade
<b>7</b>	<b>Blue</b>	Intensity 0-100%	0-255	0-100%	0	Fade
<b>8</b>	<b>Lime</b>	Intensity 0-100%	0-255	0-100%	0	Fade

Note: Channel 8 has no effect unless Fixture Settings → Color Mode is set to RGLB

## DMX Mode 2: Standard

### 11 DMX Channels

Channel	Command	DMX range	Percent	Default DMX	Fade	
<b>1</b>	<b>Master Dimmer</b>	Intensity 0-100%	0-255	0-100%	0	Fade
<b>2</b>	<b>Shutter</b>	Closed	0-4	0-1.6%	255	Snap
		Single Flash (when value changes)	5-9	1.9-3.5%		Snap
		Sync Ramp-Up (slow→fast)	10-39	3.9-15.3%		Fade
		Sync Ramp-down (slow→fast)	40-69	15.7-27%		Fade
		Sync Ramp up-down (slow→fast)	70-99	27.4-38.9%		Fade
		Sync Double Flash (slow→fast)	100-129	39.2-50.6%		Fade
		Random Strobe (slow→fast)	130-359	51-62%		Fade
		Sync Strobe (1Hz-10Hz)	160-239	62.8-93.7%		Fade
		Open	251-255	98.4-100%		Snap
		<b>3</b>	<b>Zoom</b>	Beam angle 6-43 degrees		0-255
<b>4</b>	<b>Control / Settings</b>	No function	0-35	0-13.7%	0	Snap
		Color Mode: RGB HO (Calibrated)*	36-40	14.0-15.6%		
		Color Mode: RGB HQ (Calibrated)*	41-45	16.0-17.6%		
		Color Mode: RGLB*	46-50	18.0-19.6%		
		No function	51-55	20.0-21.6%		
		Dimmer speed smooth*	56-60	22.0-23.5%		
		Dimmer speed fast*	61-65	23.9-25.5%		
		No function	66-70	25.9-27.5%		
		Dimming curve Linear*	71-75	27.8-29.4%		
		Dimming curve Theatrical*	76-80	29.8-31.4%		
		Dimming curve Square Law*	81-85	31.8-33.3%		
		Dimming curve Inverse Square Law*	86-90	33.7-35.3%		
		No Function	91-95	35.7-37.3%		
No DMX = Hold scene*	96-100	37.6-39.2%				

Channel	Command	DMX range	Percent	Default DMX	Fade	
	No DMX = Blackout*	101-105	39.6-41.2%			
	No DMX = Play captured scene*	106-110	41.6-43.1%			
	No Function	111-115	43.5-45.1%			
	Display backlight Auto*	116-120	45.5-47.1%			
	Display backlight Off*	121-125	47.5-49.0%			
	No Function	126-130	49.4-51.2%			
	DMX Mode: M1-Basic*	131-135	51.4-52.9%			
	DMX Mode: M2-Standard*	136-140	53.3-54.9%			
	DMX Mode: M3-Advanced*	141-145	55.3-56.9%			
	DMX Mode: M4-RGB(L)*	146-150	57.3-58.8%			
	DMX Mode: M5-White*	151-155	59.2-60.8%			
	DMX Mode: M6-Easy*	156-160	61.2-62.7%			
	No Function	161-165	63.1-64.7%			
	Zoom Invert On*	166-170	65.1-66.7%			
	Zoom Invert Off*	171-175	67.1-68.5%			
	Zoom Reset*	176-180	69.0-70.5%			
	Fixture reset*	181-185	71.0-72.5%			
	Factory default settings (except DMX address & mode)*	186-190	72.9-74.5%			
	No function	191-195	74.9-76.2%			
	PWM Rate: 600Hz	196-200	76.9-78.4%			
	PWM Rate: 1200Hz	201-205	78.8-80.4%			
	PWM Rate: 2200Hz	206-210	80.8-82.4%			
	PWM Rate: 3000Hz	211-215	82.7-84.3%			
	PWM Rate: 4800Hz	216-220	84.7-86.3%			
	PWM Rate: 9600Hz	221-225	86.7-88.2%			
	PWM Rate: 25KHz	226-230	88.6-90.2%			
	No function	231-252	90.6-100%			
<b>5</b>	<b>Red</b>	Intensity 0-100%	0-255	0-100%	0	Fade
<b>6</b>	<b>Green</b>	Intensity 0-100%	0-255	0-100%	0	Fade
<b>7</b>	<b>Blue</b>	Intensity 0-100%	0-255	0-100%	0	Fade
<b>8</b>	<b>Lime</b>	Intensity 0-100%	0-255	0-100%	0	Fade
<b>9</b>	<b>Colour Wheel</b>	Open (Color set by ch 5-8)	0-3	0-1.2%	0	Snap
		Preset 3200K	4-6	1.6-2.4%		
		Preset 4200K	7-9	2.7-3.5%		
		Preset 5600K	10-12	3.9-4.7%		
		Preset 6500K	13-15	5.1-5.9%		
		Filter 004 (Medium Bastard Amber)	16-18	6.3-7.1%		
		Filter 019 (Fire)	19-21	7.5-8.2%		
		Filter 025 (Sunset Red)	22-24	8.6-9.4%		
		Filter 026 (Bright Red)	25-27	9.8-10.6%		
		Filter 036 (Medium Pink)	28-30	11-11.8%		
		Filter 049 (Medium Purple)	31-33	12.2-12.9%		
		Filter 058 (Lavender)	34-36	13.3-14.1%		
		Filter 068 (Sky Blue)	37-39	14.5-15.3%		
		Filter 088 (Lime Green)	40-42	15.7-16.5%		
		Filter 089 (Moss Green)	43-45	16.9-17.6%		
		Filter 090 (Dark Yellow Green)	46-48	18-18.8%		
		Filter 102 (Light Amber)	49-51	19.2-20%		
		Filter 103 (Straw)	52-54	20.4-21.2%		
		Filter 106 (Primary Red)	55-57	21.6-22.4%		
		Filter 111 (Dark Pink)	58-60	22.7-23.5%		
		Filter 115 (Peacock Blue)	61-63	23.9-24.7%		

Channel	Command	DMX range	Percent	Default DMX	Fade	
	Filter 117 (Steel Blue)	64-66	25.1-25.9%			
	Filter 118 (Light Blue)	67-69	26.3-27.1%			
	Filter 121 (Filter Green)	70-72	27.5-28.2%			
	Filter 122 (Fern Green)	73-75	28.6-29.4%			
	Filter 124 (Dark Green)	76-78	29.8-30.6%			
	Filter 126 (Mauve)	79-81	31-31.8%			
	Filter 128 (Bright Pink)	82-84	32.2-32.9%			
	Filter 131 (Marine Blue)	85-87	33.3-34.1%			
	Filter 132 (Medium Blue)	88-90	34.5-35.3%			
	Filter 134 (Golden Amber)	91-93	35.7-36.5%			
	Filter 135 (Deep Golden Amber)	94-96	36.9-37.6%			
	Filter 136 (Pale Lavender)	97-99	38-38.8%			
	Filter 137 (Special Lavender)	100-102	39.2-40%			
	Filter 138 (Pale Green)	103-105	40.4-41.2%			
	Filter 140 (Summer Blue)	106-108	41.6-42.4%			
	Filter 141 (Bright Blue)	109-111	42.7-43.5%			
	Filter 143 (Pale Navy Blue)	112-114	43.9-44.7%			
	Filter 147 (Apricot)	115-117	45.1-45.9%			
	Filter 148 (Bright Rose)	118-120	46.3-47.1%			
	Filter 152 (Pale Gold)	121-123	47.5-48.2%			
	Filter 154 (Pale Rose)	124-126	48.6-49.4%			
	Filter 157 (Pink)	127-129	49.8-50.6%			
	Filter 162 (Bastard Amber)	130-132	51-51.8%			
	Filter 164 (Flame Red)	133-135	52.2-52.9%			
	Filter 165 (Daylight Blue)	136-138	53.3-54.1%			
	Filter 169 (Lilac Tint)	139-141	54.5-55.3%			
	Filter 170 (Deep Lavender)	142-144	55.7-56.5%			
	Filter 172 (Lagoon Blue)	145-147	56.9-57.6%			
	Filter 180 (Dark Lavender)	148-150	58-58.8%			
	Filter 182 (Light Red)	151-153	59.2-60%			
	Filter 194 (Surprise Pink)	154-156	60.4-61.2%			
	Filter 197 (Alice Blue)	157-159	61.6-62.4%			
	Filter 201 (Full C.T. Blue)	160-162	62.7-63.5%			
	Filter 202 (Half C.T. Blue)	163-165	63.9-64.7%			
	Filter 203 (Quarter C.T. Blue)	166-168	65.1-65.9%			
	Filter 204 (Full C.T. Orange)	169-171	66.3-67.1%			
	Filter 206 (Quarter C.T. Orange)	172-174	67.5-68.2%			
	Filter 219 (Fluorescent Green)	175-177	68.6-69.4%			
	Filter 247 (Filter Minus Green)	178-180	69.8-70.6%			
	Filter 248 (Half Minus Green)	181-183	71-71.8%			
	Filter 281 (Three Quarter C.T. Blue)	184-186	72.2-72.9%			
	Filter 285 (Three Quarter C.T. Orange)	187-189	73.3-74.1%			
	Filter 352 (Glacier Blue)	190-192	74.5-75.3%			
	Filter 353 (Lighter Blue)	193-195	75.7-76.5%			
	Filter 507 (Madge)	196-198	76.9-77.6%			
	Filter 778 (Millennium Gold)	199-201	78-78.8%			
	Filter 793 (Vanity Fair)	202-204	79.2-80%			
	Filter 798 (Chrysalis Pink)	205-207	80.4-81.2%			
	Rainbow Stop - at first Color	208-210	81.6-82.4%			
	Rainbow slow→fast	211-252	82.7-98.8%			
	Rainbow Stop - at current Color	253-255	99.2-100%			
10	CTC	RAW (RGBL control)	0-15	0-5.9%	0	Snap
		10000K	16-18	6.3-7.1%		



Channel	Command	DMX range	Percent	Default DMX	Fade
	9900K	19-21	7.5-8.2%		
	9800K	22-24	8.6-9.4%		
	9700K	25-27	9.8-10.6%		
	9600K	28-30	11-11.8%		
	9500K	31-33	12.2-12.9%		
	9400K	34-36	13.3-14.1%		
	9300K	37-39	14.5-15.3%		
	9200K	40-42	15.7-16.5%		
	9100K	43-45	16.9-17.6%		
	9000K	46-48	18-18.8%		
	8900K	49-51	19.2-20%		
	8800K	52-54	20.4-21.2%		
	8700K	55-57	21.6-22.4%		
	8600K	58-60	22.7-23.5%		
	8500K	61-63	23.9-24.7%		
	8400K	64-66	25.1-25.9%		
	8300K	67-69	26.3-27.1%		
	8200K	70-72	27.5-28.2%		
	8100K	73-75	28.6-29.4%		
	8000K	76-78	29.8-30.6%		
	7900K	79-81	31-31.8%		
	7800K	82-84	32.2-32.9%		
	7700K	85-87	33.3-34.1%		
	7600K	88-90	34.5-35.3%		
	7500K	91-93	35.7-36.5%		
	7400K	94-96	36.9-37.6%		
	7300K	97-99	38-38.8%		
	7200K	100-102	39.2-40%		
	7100K	103-105	40.4-41.2%		
	7000K	106-108	41.6-42.4%		
	6900K	109-111	42.7-43.5%		
	6800K	112-114	43.9-44.7%		
	6700K	115-117	45.1-45.9%		
	6600K	118-120	46.3-47.1%		
	6500K	121-123	47.5-48.2%		
	6400K	124-126	48.6-49.4%		
	6300K	127-129	49.8-50.6%		
	6200K	130-132	51-51.8%		
	6100K	133-135	52.2-52.9%		
	6000K	136-138	53.3-54.1%		
	5900K	139-141	54.5-55.3%		
	5800K	142-144	55.7-56.5%		
	5700K	145-147	56.9-57.6%		
	5600K	148-150	58-58.8%		
	5500K	151-153	59.2-60%		
	5400K	154-156	60.4-61.2%		
	5300K	157-159	61.6-62.4%		
	5200K	160-162	62.7-63.5%		
	5100K	163-165	63.9-64.7%		
	5000K	166-168	65.1-65.9%		
	4900K	169-171	66.3-67.1%		
	4800K	172-174	67.5-68.2%		
	4700K	175-177	68.6-69.4%		

Channel	Command	DMX range	Percent	Default DMX	Fade	
	4600K	178-180	69.8-70.6%			
	4500K	181-183	71-71.8%			
	4400K	184-186	72.2-72.9%			
	4300K	187-189	73.3-74.1%			
	4200K	190-192	74.5-75.3%			
	4100K	193-195	75.7-76.5%			
	4000K	196-198	76.9-77.6%			
	3900K	199-201	78-78.8%			
	3800K	202-204	79.2-80%			
	3700K	205-207	80.4-81.2%			
	3600K	208-210	81.6-82.4%			
	3500K	211-213	82.7-83.5%			
	3400K	214-216	83.9-84.7%			
	3300K	217-219	85.1-85.9%			
	3200K	220-222	86.3-87.1%			
	3100K	223-225	87.5-88.2%			
	3000K	226-228	88.6-89.4%			
	2900K	229-231	89.8-90.6%			
	2800K	232-234	91-91.8%			
	2700K	235-237	92.2-92.9%			
	2600K	238-240	93.3-94.1%			
	2500K	241-255	94.5-100%			
11	M/G Shift	Off - ( no correction)	0-9	0-3.5%	0	snap
		full plus Magenta +100% (-0,1 Duv)	10-10	3.9-3.9%		
		plus Magenta +99% → + 1%	11-124	4.3-48.6%		fade
		neutral / no effect	125-140	49-54.9%		snap
		plus green +1% → +99%	141-254	55.3-99.6%		fade
		full plus green +100% (+ 0,1 Duv)	255-255	100-100%		

Notes: Channels 5-8 have no effect unless Channel 9 is set between 0-3.  
Channel 8 has no effect unless Fixture Settings → Color Mode is set to RGBL

## DMX Mode 3: Advanced

### 16 DMX Channels

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	Master Dimmer	Intensity 0-100% (16-bit)	0-655355	0-100%	0	Fade
2	Dimmer Fine					
3	Shutter	Closed	0-4	0-1.6%	255	Snap
		Single Flash (when value changes)	5-9	1.9-3.5%		Snap
		Sync Ramp-Up (slow→fast)	10-39	3.9-15.3%		Fade
		Sync Ramp-down (slow→fast)	40-69	15.7-27%		Fade
		Sync Ramp up-down (slow→fast)	70-99	27.4-38.9%		Fade
		Sync Double Flash (slow→fast)	100-129	39.2-50.6%		Fade
		Random Strobe (slow→fast)	130-359	51-62%		Fade
		Sync Strobe (1Hz-10Hz)	160-239	62.8-93.7%		Fade
		Open	251-255	98.4-100%		Snap
4	Zoom	Beam angle 6-43 degrees	0-255	0-100%	0	Fade
5	Control / Settings	No function	0-35	0-13.7%	0	Snap

Channel	Command	DMX range	Percent	Default DMX	Fade	
	Color Mode: RGB HO (Calibrated)*	36-40	14.0-15.6%			
	Color Mode: RGB HQ (Calibrated)*	41-45	16.0-17.6%			
	Color Mode: RGBL*	46-50	18.0-19.6%			
	No function	51-55	20.0-21.6%			
	Dimmer speed smooth*	56-60	22.0-23.5%			
	Dimmer speed fast*	61-65	23.9-25.5%			
	No function	66-70	25.9-27.5%			
	Dimming curve Linear*	71-75	27.8-29.4%			
	Dimming curve Theatrical*	76-80	29.8-31.4%			
	Dimming curve Square Law*	81-85	31.8-33.3%			
	Dimming curve Inverse Square Law*	86-90	33.7-35.3%			
	No Function	91-95	35.7-37.3%			
	No DMX = Hold scene*	96-100	37.6-39.2%			
	No DMX = Blackout*	101-105	39.6-41.2%			
	No DMX = Play captured scene*	106-110	41.6-43.1%			
	No Function	111-115	43.5-45.1%			
	Display backlight Auto*	116-120	45.5-47.1%			
	Display backlight Off*	121-125	47.5-49.0%			
	No Function	126-130	49.4-51.2%			
	DMX Mode: M1-Basic*	131-135	51.4-52.9%			
	DMX Mode: M2-Standard*	136-140	53.3-54.9%			
	DMX Mode: M3-Advanced*	141-145	55.3-56.9%			
	DMX Mode: M4-RGB(L)*	146-150	57.3-58.8%			
	DMX Mode: M5-White*	151-155	59.2-60.8%			
	DMX Mode: M6-Easy*	156-160	61.2-62.7%			
	No Function	161-165	63.1-64.7%			
	Zoom Invert On*	166-170	65.1-66.7%			
	Zoom Invert Off*	171-175	67.1-68.5%			
	Zoom Reset*	176-180	69.0-70.5%			
	Fixture reset*	181-185	71.0-72.5%			
	Factory default settings (except DMX address & mode)*	186-190	72.9-74.5%			
	No function	191-195	74.9-76.2%			
	PWM Rate: 600Hz	196-200	76.9-78.4%			
	PWM Rate: 1200Hz	201-205	78.8-80.4%			
	PWM Rate: 2200Hz	206-210	80.8-82.4%			
	PWM Rate: 3000Hz	211-215	82.7-84.3%			
	PWM Rate: 4800Hz	216-220	84.7-86.3%			
	PWM Rate: 9600Hz	221-225	86.7-88.2%			
	PWM Rate: 25KHz	226-230	88.6-90.2%			
	No function	231-252	90.6-100%			
<b>6</b>	<b>Red</b>	Intensity 0-100% (16-bit)	0-65535	0-100%	0	Fade
<b>7</b>	<b>Red fine</b>					
<b>8</b>	<b>Green</b>	Intensity 0-100% (16-bit)	0-65535	0-100%	0	Fade
<b>9</b>	<b>Green fine</b>					
<b>10</b>	<b>Blue</b>	Intensity 0-100% (16-bit)	0-65535	0-100%	0	Fade
<b>11</b>	<b>Blue fine</b>					
<b>12</b>	<b>Lime</b>	Intensity 0-100% (16-bit)	0-65535	0-100%	0	Fade
<b>13</b>	<b>Lime fine</b>					
<b>14</b>	<b>Colour Wheel</b>	Open (Color set by ch 5-8)	0-3	0-1.2%	0	Snap
		Preset 3200K	4-6	1.6-2.4%		
		Preset 4200K	7-9	2.7-3.5%		
		Preset 5600K	10-12	3.9-4.7%		

Channel	Command	DMX range	Percent	Default DMX	Fade
	Preset 6500K	13-15	5.1-5.9%		
	Filter 004 (Medium Bastard Amber)	16-18	6.3-7.1%		
	Filter 019 (Fire)	19-21	7.5-8.2%		
	Filter 025 (Sunset Red)	22-24	8.6-9.4%		
	Filter 026 (Bright Red)	25-27	9.8-10.6%		
	Filter 036 (Medium Pink)	28-30	11-11.8%		
	Filter 049 (Medium Purple)	31-33	12.2-12.9%		
	Filter 058 (Lavender)	34-36	13.3-14.1%		
	Filter 068 (Sky Blue)	37-39	14.5-15.3%		
	Filter 088 (Lime Green)	40-42	15.7-16.5%		
	Filter 089 (Moss Green)	43-45	16.9-17.6%		
	Filter 090 (Dark Yellow Green)	46-48	18-18.8%		
	Filter 102 (Light Amber)	49-51	19.2-20%		
	Filter 103 (Straw)	52-54	20.4-21.2%		
	Filter 106 (Primary Red)	55-57	21.6-22.4%		
	Filter 111 (Dark Pink)	58-60	22.7-23.5%		
	Filter 115 (Peacock Blue)	61-63	23.9-24.7%		
	Filter 117 (Steel Blue)	64-66	25.1-25.9%		
	Filter 118 (Light Blue)	67-69	26.3-27.1%		
	Filter 121 (Filter Green)	70-72	27.5-28.2%		
	Filter 122 (Fern Green)	73-75	28.6-29.4%		
	Filter 124 (Dark Green)	76-78	29.8-30.6%		
	Filter 126 (Mauve)	79-81	31-31.8%		
	Filter 128 (Bright Pink)	82-84	32.2-32.9%		
	Filter 131 (Marine Blue)	85-87	33.3-34.1%		
	Filter 132 (Medium Blue)	88-90	34.5-35.3%		
	Filter 134 (Golden Amber)	91-93	35.7-36.5%		
	Filter 135 (Deep Golden Amber)	94-96	36.9-37.6%		
	Filter 136 (Pale Lavender)	97-99	38-38.8%		
	Filter 137 (Special Lavender)	100-102	39.2-40%		
	Filter 138 (Pale Green)	103-105	40.4-41.2%		
	Filter 140 (Summer Blue)	106-108	41.6-42.4%		
	Filter 141 (Bright Blue)	109-111	42.7-43.5%		
	Filter 143 (Pale Navy Blue)	112-114	43.9-44.7%		
	Filter 147 (Apricot)	115-117	45.1-45.9%		
	Filter 148 (Bright Rose)	118-120	46.3-47.1%		
	Filter 152 (Pale Gold)	121-123	47.5-48.2%		
	Filter 154 (Pale Rose)	124-126	48.6-49.4%		
	Filter 157 (Pink)	127-129	49.8-50.6%		
	Filter 162 (Bastard Amber)	130-132	51-51.8%		
	Filter 164 (Flame Red)	133-135	52.2-52.9%		
	Filter 165 (Daylight Blue)	136-138	53.3-54.1%		
	Filter 169 (Lilac Tint)	139-141	54.5-55.3%		
	Filter 170 (Deep Lavender)	142-144	55.7-56.5%		
	Filter 172 (Lagoon Blue)	145-147	56.9-57.6%		
	Filter 180 (Dark Lavender)	148-150	58-58.8%		
	Filter 182 (Light Red)	151-153	59.2-60%		
	Filter 194 (Surprise Pink)	154-156	60.4-61.2%		
	Filter 197 (Alice Blue)	157-159	61.6-62.4%		
	Filter 201 (Full C.T. Blue)	160-162	62.7-63.5%		
	Filter 202 (Half C.T. Blue)	163-165	63.9-64.7%		
	Filter 203 (Quarter C.T. Blue)	166-168	65.1-65.9%		
	Filter 204 (Full C.T. Orange)	169-171	66.3-67.1%		

Channel	Command	DMX range	Percent	Default DMX	Fade	
	Filter 206 (Quarter C.T. Orange)	172-174	67.5-68.2%			
	Filter 219 (Fluorescent Green)	175-177	68.6-69.4%			
	Filter 247 (Filter Minus Green)	178-180	69.8-70.6%			
	Filter 248 (Half Minus Green)	181-183	71-71.8%			
	Filter 281 (Three Quarter C.T. Blue)	184-186	72.2-72.9%			
	Filter 285 (Three Quarter C.T. Orange)	187-189	73.3-74.1%			
	Filter 352 (Glacier Blue)	190-192	74.5-75.3%			
	Filter 353 (Lighter Blue)	193-195	75.7-76.5%			
	Filter 507 (Madge)	196-198	76.9-77.6%			
	Filter 778 (Millennium Gold)	199-201	78-78.8%			
	Filter 793 (Vanity Fair)	202-204	79.2-80%			
	Filter 798 (Chrysalis Pink)	205-207	80.4-81.2%			
	Rainbow Stop - at first Color	208-210	81.6-82.4%			
	Rainbow slow→fast	211-252	82.7-98.8%			
	Rainbow Stop - at current Color	253-255	99.2-100%			
<b>15</b>	<b>CTC</b>	RAW (RGBL control)	0-15	0-5.9%	0	Snap
		10000K	16-18	6.3-7.1%		
		9900K	19-21	7.5-8.2%		
		9800K	22-24	8.6-9.4%		
		9700K	25-27	9.8-10.6%		
		9600K	28-30	11-11.8%		
		9500K	31-33	12.2-12.9%		
		9400K	34-36	13.3-14.1%		
		9300K	37-39	14.5-15.3%		
		9200K	40-42	15.7-16.5%		
		9100K	43-45	16.9-17.6%		
		9000K	46-48	18-18.8%		
		8900K	49-51	19.2-20%		
		8800K	52-54	20.4-21.2%		
		8700K	55-57	21.6-22.4%		
		8600K	58-60	22.7-23.5%		
		8500K	61-63	23.9-24.7%		
		8400K	64-66	25.1-25.9%		
		8300K	67-69	26.3-27.1%		
		8200K	70-72	27.5-28.2%		
		8100K	73-75	28.6-29.4%		
		8000K	76-78	29.8-30.6%		
		7900K	79-81	31-31.8%		
		7800K	82-84	32.2-32.9%		
		7700K	85-87	33.3-34.1%		
		7600K	88-90	34.5-35.3%		
		7500K	91-93	35.7-36.5%		
		7400K	94-96	36.9-37.6%		
		7300K	97-99	38-38.8%		
		7200K	100-102	39.2-40%		
		7100K	103-105	40.4-41.2%		
		7000K	106-108	41.6-42.4%		
		6900K	109-111	42.7-43.5%		
		6800K	112-114	43.9-44.7%		
		6700K	115-117	45.1-45.9%		
		6600K	118-120	46.3-47.1%		
		6500K	121-123	47.5-48.2%		
		6400K	124-126	48.6-49.4%		

Channel	Command	DMX range	Percent	Default DMX	Fade	
	6300K	127-129	49.8-50.6%			
	6200K	130-132	51-51.8%			
	6100K	133-135	52.2-52.9%			
	6000K	136-138	53.3-54.1%			
	5900K	139-141	54.5-55.3%			
	5800K	142-144	55.7-56.5%			
	5700K	145-147	56.9-57.6%			
	5600K	148-150	58-58.8%			
	5500K	151-153	59.2-60%			
	5400K	154-156	60.4-61.2%			
	5300K	157-159	61.6-62.4%			
	5200K	160-162	62.7-63.5%			
	5100K	163-165	63.9-64.7%			
	5000K	166-168	65.1-65.9%			
	4900K	169-171	66.3-67.1%			
	4800K	172-174	67.5-68.2%			
	4700K	175-177	68.6-69.4%			
	4600K	178-180	69.8-70.6%			
	4500K	181-183	71-71.8%			
	4400K	184-186	72.2-72.9%			
	4300K	187-189	73.3-74.1%			
	4200K	190-192	74.5-75.3%			
	4100K	193-195	75.7-76.5%			
	4000K	196-198	76.9-77.6%			
	3900K	199-201	78-78.8%			
	3800K	202-204	79.2-80%			
	3700K	205-207	80.4-81.2%			
	3600K	208-210	81.6-82.4%			
	3500K	211-213	82.7-83.5%			
	3400K	214-216	83.9-84.7%			
	3300K	217-219	85.1-85.9%			
	3200K	220-222	86.3-87.1%			
	3100K	223-225	87.5-88.2%			
	3000K	226-228	88.6-89.4%			
	2900K	229-231	89.8-90.6%			
	2800K	232-234	91-91.8%			
	2700K	235-237	92.2-92.9%			
	2600K	238-240	93.3-94.1%			
	2500K	241-255	94.5-100%			
16	M/G Shift	Off - ( no correction)	0-9	0-3.5%	0	snap
		full plus Magenta +100% (-0,1 Duv)	10-10	3.9-3.9%		
		plus Magenta +99% → + 1%	11-124	4.3-48.6%		fade
		neutral / no effect	125-140	49-54.9%		snap
		plus green +1% → +99%	141-254	55.3-99.6%		fade
		full plus green +100% (+ 0,1 Duv)	255-255	100-100%		

Notes: Channels 6-13 have no effect unless Channel 14 is set between 0-3.  
Channels 12-13 have no effect unless Fixture Settings → Color Mode is set to RGLB

## DMX Mode 4: RGB(L)

### 6 DMX Channels

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	<b>Zoom</b>	Beam angle 6-43 degrees	0-255	0-100%	0	Fade
		No function	0-35	0-13.7%	0	Snap
		Color Mode: RGB HO (Calibrated)*	36-40	14.0-15.6%		
		Color Mode: RGB HQ (Calibrated)*	41-45	16.0-17.6%		
		Color Mode: RGBL*	46-50	18.0-19.6%		
		No function	51-55	20.0-21.6%		
		Dimmer speed smooth*	56-60	22.0-23.5%		
		Dimmer speed fast*	61-65	23.9-25.5%		
		No function	66-70	25.9-27.5%		
		Dimming curve Linear*	71-75	27.8-29.4%		
		Dimming curve Theatrical*	76-80	29.8-31.4%		
		Dimming curve Square Law*	81-85	31.8-33.3%		
		Dimming curve Inverse Square Law*	86-90	33.7-35.3%		
		No Function	91-95	35.7-37.3%		
		No DMX = Hold scene*	96-100	37.6-39.2%		
		No DMX = Blackout*	101-105	39.6-41.2%		
		No DMX = Play captured scene*	106-110	41.6-43.1%		
		No Function	111-115	43.5-45.1%		
		Display backlight Auto*	116-120	45.5-47.1%		
		Display backlight Off*	121-125	47.5-49.0%		
2	<b>Control / Settings</b>	No Function	126-130	49.4-51.2%		
		DMX Mode: M1-Basic*	131-135	51.4-52.9%		
		DMX Mode: M2-Standard*	136-140	53.3-54.9%		
		DMX Mode: M3-Advanced*	141-145	55.3-56.9%		
		DMX Mode: M4-RGB(L)*	146-150	57.3-58.8%		
		DMX Mode: M5-White*	151-155	59.2-60.8%		
		DMX Mode: M6-Easy*	156-160	61.2-62.7%		
		No Function	161-165	63.1-64.7%		
		Zoom Invert On*	166-170	65.1-66.7%		
		Zoom Invert Off*	171-175	67.1-68.5%		
		Zoom Reset*	176-180	69.0-70.5%		
		Fixture reset*	181-185	71.0-72.5%		
		Factory default settings (except DMX address & mode)*	186-190	72.9-74.5%		
		No function	191-195	74.9-76.2%		
		PWM Rate: 600Hz	196-200	76.9-78.4%		
		PWM Rate: 1200Hz	201-205	78.8-80.4%		
		PWM Rate: 2200Hz	206-210	80.8-82.4%		
		PWM Rate: 3000Hz	211-215	82.7-84.3%		
		PWM Rate: 4800Hz	216-220	84.7-86.3%		
		PWM Rate: 9600Hz	221-225	86.7-88.2%		
PWM Rate: 25KHz	226-230	88.6-90.2%				
No function	231-252	90.6-100%				
3	<b>Red</b>	Intensity 0-100%	0-255	0-100%	0	Fade
4	<b>Green</b>	Intensity 0-100%	0-255	0-100%	0	Fade
5	<b>Blue</b>	Intensity 0-100%	0-255	0-100%	0	Fade
6	<b>Lime</b>	Intensity 0-100%	0-255	0-100%	0	Fade

Note: Channel 6 has no effect unless Fixture Settings → Color Mode is set to RGBL

## DMX Mode 5: White

### 6 DMX Channels

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	<b>Master Dimmer</b>	Intensity 0-100%	0-255	0-100%	0	Fade
2	<b>Shutter</b>	Closed	0-4	0-1.6%	255	Snap
		Single Flash (when value changes)	5-9	1.9-3.5%		Snap
		Sync Ramp-Up (slow→fast)	10-39	3.9-15.3%		Fade
		Sync Ramp-down (slow→fast)	40-69	15.7-27%		Fade
		Sync Ramp up-down (slow→fast)	70-99	27.4-38.9%		Fade
		Sync Double Flash (slow→fast)	100-129	39.2-50.6%		Fade
		Random Strobe (slow→fast)	130-359	51-62%		Fade
		Sync Strobe (1Hz-10Hz)	160-239	62.8-93.7%		Fade
		Open	251-255	98.4-100%		Snap
		3	<b>Zoom</b>	Beam angle 6-43 degrees		0-255
4	<b>Control / Settings</b>	No function	0-35	0-13.7%	0	Snap
		Color Mode: RGB HO (Calibrated)*	36-40	14.0-15.6%		
		Color Mode: RGB HQ (Calibrated)*	41-45	16.0-17.6%		
		Color Mode: RGBL*	46-50	18.0-19.6%		
		No function	51-55	20.0-21.6%		
		Dimmer speed smooth*	56-60	22.0-23.5%		
		Dimmer speed fast*	61-65	23.9-25.5%		
		No function	66-70	25.9-27.5%		
		Dimming curve Linear*	71-75	27.8-29.4%		
		Dimming curve Theatrical*	76-80	29.8-31.4%		
		Dimming curve Square Law*	81-85	31.8-33.3%		
		Dimming curve Inverse Square Law*	86-90	33.7-35.3%		
		No Function	91-95	35.7-37.3%		
		No DMX = Hold scene*	96-100	37.6-39.2%		
		No DMX = Blackout*	101-105	39.6-41.2%		
		No DMX = Play captured scene*	106-110	41.6-43.1%		
		No Function	111-115	43.5-45.1%		
		Display backlight Auto*	116-120	45.5-47.1%		
		Display backlight Off*	121-125	47.5-49.0%		
		No Function	126-130	49.4-51.2%		
		DMX Mode: M1-Basic*	131-135	51.4-52.9%		
		DMX Mode: M2-Standard*	136-140	53.3-54.9%		
		DMX Mode: M3-Advanced*	141-145	55.3-56.9%		
		DMX Mode: M4-RGB(L)*	146-150	57.3-58.8%		
		DMX Mode: M5-White*	151-155	59.2-60.8%		
		DMX Mode: M6-Easy*	156-160	61.2-62.7%		
		No Function	161-165	63.1-64.7%		
		Zoom Invert On*	166-170	65.1-66.7%		
		Zoom Invert Off*	171-175	67.1-68.5%		
		Zoom Reset*	176-180	69.0-70.5%		
		Fixture reset*	181-185	71.0-72.5%		
		Factory default settings (except DMX address & mode)*	186-190	72.9-74.5%		
No function	191-195	74.9-76.2%				



Channel	Command	DMX range	Percent	Default DMX	Fade	
	PWM Rate: 600Hz	196-200	76.9-78.4%			
	PWM Rate: 1200Hz	201-205	78.8-80.4%			
	PWM Rate: 2200Hz	206-210	80.8-82.4%			
	PWM Rate: 3000Hz	211-215	82.7-84.3%			
	PWM Rate: 4800Hz	216-220	84.7-86.3%			
	PWM Rate: 9600Hz	221-225	86.7-88.2%			
	PWM Rate: 25KHz	226-230	88.6-90.2%			
	No function	231-252	90.6-100%			
5	CTC	Default 6500K	0-15	0-5.9%	0	Snap
		10000K	16-18	6.3-7.1%		
		9900K	19-21	7.5-8.2%		
		9800K	22-24	8.6-9.4%		
		9700K	25-27	9.8-10.6%		
		9600K	28-30	11-11.8%		
		9500K	31-33	12.2-12.9%		
		9400K	34-36	13.3-14.1%		
		9300K	37-39	14.5-15.3%		
		9200K	40-42	15.7-16.5%		
		9100K	43-45	16.9-17.6%		
		9000K	46-48	18-18.8%		
		8900K	49-51	19.2-20%		
		8800K	52-54	20.4-21.2%		
		8700K	55-57	21.6-22.4%		
		8600K	58-60	22.7-23.5%		
		8500K	61-63	23.9-24.7%		
		8400K	64-66	25.1-25.9%		
		8300K	67-69	26.3-27.1%		
		8200K	70-72	27.5-28.2%		
		8100K	73-75	28.6-29.4%		
		8000K	76-78	29.8-30.6%		
		7900K	79-81	31-31.8%		
		7800K	82-84	32.2-32.9%		
		7700K	85-87	33.3-34.1%		
		7600K	88-90	34.5-35.3%		
		7500K	91-93	35.7-36.5%		
		7400K	94-96	36.9-37.6%		
		7300K	97-99	38-38.8%		
		7200K	100-102	39.2-40%		
		7100K	103-105	40.4-41.2%		
		7000K	106-108	41.6-42.4%		
6900K	109-111	42.7-43.5%				
6800K	112-114	43.9-44.7%				
6700K	115-117	45.1-45.9%				
6600K	118-120	46.3-47.1%				
6500K	121-123	47.5-48.2%				
6400K	124-126	48.6-49.4%				
6300K	127-129	49.8-50.6%				
6200K	130-132	51-51.8%				
6100K	133-135	52.2-52.9%				
6000K	136-138	53.3-54.1%				
5900K	139-141	54.5-55.3%				
5800K	142-144	55.7-56.5%				
5700K	145-147	56.9-57.6%				

Channel	Command	DMX range	Percent	Default DMX	Fade	
	5600K	148-150	58-58.8%			
	5500K	151-153	59.2-60%			
	5400K	154-156	60.4-61.2%			
	5300K	157-159	61.6-62.4%			
	5200K	160-162	62.7-63.5%			
	5100K	163-165	63.9-64.7%			
	5000K	166-168	65.1-65.9%			
	4900K	169-171	66.3-67.1%			
	4800K	172-174	67.5-68.2%			
	4700K	175-177	68.6-69.4%			
	4600K	178-180	69.8-70.6%			
	4500K	181-183	71-71.8%			
	4400K	184-186	72.2-72.9%			
	4300K	187-189	73.3-74.1%			
	4200K	190-192	74.5-75.3%			
	4100K	193-195	75.7-76.5%			
	4000K	196-198	76.9-77.6%			
	3900K	199-201	78-78.8%			
	3800K	202-204	79.2-80%			
	3700K	205-207	80.4-81.2%			
	3600K	208-210	81.6-82.4%			
	3500K	211-213	82.7-83.5%			
	3400K	214-216	83.9-84.7%			
	3300K	217-219	85.1-85.9%			
	3200K	220-222	86.3-87.1%			
	3100K	223-225	87.5-88.2%			
	3000K	226-228	88.6-89.4%			
	2900K	229-231	89.8-90.6%			
	2800K	232-234	91-91.8%			
	2700K	235-237	92.2-92.9%			
	2600K	238-240	93.3-94.1%			
	2500K	241-255	94.5-100%			
6	M/G Shift	Off - ( no correction)	0-9	0-3.5%	0	snap
		full plus Magenta +100% (-0,1 Duv)	10-10	3.9-3.9%		
		plus Magenta +99% → + 1%	11-124	4.3-48.6%		fade
		neutral / no effect	125-140	49-54.9%		snap
		plus green +1% → +99%	141-254	55.3-99.6%		fade
		full plus green +100% (+ 0,1 Duv)	255-255	100-100%		

## DMX Mode 6: Easy

### 4 DMX Channels

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	Master Dimmer	Intensity 0-100%	0-255	0-100%	0	Fade
2	Zoom	Beam angle 6-43 degrees	0-255	0-100%	0	Fade
3	Control / Settings	No function	0-35	0-13.7%	0	Snap
		Color Mode: RGB HO (Calibrated)*	36-40	14.0-15.6%		
		Color Mode: RGB HQ (Calibrated)*	41-45	16.0-17.6%		
		Color Mode: RGBL*	46-50	18.0-19.6%		

Channel	Command	DMX range	Percent	Default DMX	Fade
	No function	51-55	20.0-21.6%		
	Dimmer speed smooth*	56-60	22.0-23.5%		
	Dimmer speed fast*	61-65	23.9-25.5%		
	No function	66-70	25.9-27.5%		
	Dimming curve Linear*	71-75	27.8-29.4%		
	Dimming curve Theatrical*	76-80	29.8-31.4%		
	Dimming curve Square Law*	81-85	31.8-33.3%		
	Dimming curve Inverse Square Law*	86-90	33.7-35.3%		
	No Function	91-95	35.7-37.3%		
	No DMX = Hold scene*	96-100	37.6-39.2%		
	No DMX = Blackout*	101-105	39.6-41.2%		
	No DMX = Play captured scene*	106-110	41.6-43.1%		
	No Function	111-115	43.5-45.1%		
	Display backlight Auto*	116-120	45.5-47.1%		
	Display backlight Off*	121-125	47.5-49.0%		
	No Function	126-130	49.4-51.2%		
	DMX Mode: M1-Basic*	131-135	51.4-52.9%		
	DMX Mode: M2-Standard*	136-140	53.3-54.9%		
	DMX Mode: M3-Advanced*	141-145	55.3-56.9%		
	DMX Mode: M4-RGB(L)*	146-150	57.3-58.8%		
	DMX Mode: M5-White*	151-155	59.2-60.8%		
	DMX Mode: M6-Easy*	156-160	61.2-62.7%		
	No Function	161-165	63.1-64.7%		
	Zoom Invert On*	166-170	65.1-66.7%		
	Zoom Invert Off*	171-175	67.1-68.5%		
	Zoom Reset*	176-180	69.0-70.5%		
	Fixture reset*	181-185	71.0-72.5%		
	Factory default settings (except DMX address & mode)*	186-190	72.9-74.5%		
	No function	191-195	74.9-76.2%		
	PWM Rate: 600Hz	196-200	76.9-78.4%		
	PWM Rate: 1200Hz	201-205	78.8-80.4%		
	PWM Rate: 2200Hz	206-210	80.8-82.4%		
	PWM Rate: 3000Hz	211-215	82.7-84.3%		
	PWM Rate: 4800Hz	216-220	84.7-86.3%		
	PWM Rate: 9600Hz	221-225	86.7-88.2%		
	PWM Rate: 25KHz	226-230	88.6-90.2%		
	No function	231-252	90.6-100%		
<b>4</b>	<b>Colour Wheel</b>			0	Snap
	Default white 6500K	0-3	0-1.2%		
	Preset 3200K	4-6	1.6-2.4%		
	Preset 4200K	7-9	2.7-3.5%		
	Preset 5600K	10-12	3.9-4.7%		
	Preset 6500K	13-15	5.1-5.9%		
	Filter 004 (Medium Bastard Amber)	16-18	6.3-7.1%		
	Filter 019 (Fire)	19-21	7.5-8.2%		
	Filter 025 (Sunset Red)	22-24	8.6-9.4%		
	Filter 026 (Bright Red)	25-27	9.8-10.6%		
	Filter 036 (Medium Pink)	28-30	11-11.8%		
	Filter 049 (Medium Purple)	31-33	12.2-12.9%		
	Filter 058 (Lavender)	34-36	13.3-14.1%		
	Filter 068 (Sky Blue)	37-39	14.5-15.3%		
	Filter 088 (Lime Green)	40-42	15.7-16.5%		
	Filter 089 (Moss Green)	43-45	16.9-17.6%		

Channel	Command	DMX range	Percent	Default DMX	Fade
	Filter 090 (Dark Yellow Green)	46-48	18-18.8%		
	Filter 102 (Light Amber)	49-51	19.2-20%		
	Filter 103 (Straw)	52-54	20.4-21.2%		
	Filter 106 (Primary Red)	55-57	21.6-22.4%		
	Filter 111 (Dark Pink)	58-60	22.7-23.5%		
	Filter 115 (Peacock Blue)	61-63	23.9-24.7%		
	Filter 117 (Steel Blue)	64-66	25.1-25.9%		
	Filter 118 (Light Blue)	67-69	26.3-27.1%		
	Filter 121 (Filter Green)	70-72	27.5-28.2%		
	Filter 122 (Fern Green)	73-75	28.6-29.4%		
	Filter 124 (Dark Green)	76-78	29.8-30.6%		
	Filter 126 (Mauve)	79-81	31-31.8%		
	Filter 128 (Bright Pink)	82-84	32.2-32.9%		
	Filter 131 (Marine Blue)	85-87	33.3-34.1%		
	Filter 132 (Medium Blue)	88-90	34.5-35.3%		
	Filter 134 (Golden Amber)	91-93	35.7-36.5%		
	Filter 135 (Deep Golden Amber)	94-96	36.9-37.6%		
	Filter 136 (Pale Lavender)	97-99	38-38.8%		
	Filter 137 (Special Lavender)	100-102	39.2-40%		
	Filter 138 (Pale Green)	103-105	40.4-41.2%		
	Filter 140 (Summer Blue)	106-108	41.6-42.4%		
	Filter 141 (Bright Blue)	109-111	42.7-43.5%		
	Filter 143 (Pale Navy Blue)	112-114	43.9-44.7%		
	Filter 147 (Apricot)	115-117	45.1-45.9%		
	Filter 148 (Bright Rose)	118-120	46.3-47.1%		
	Filter 152 (Pale Gold)	121-123	47.5-48.2%		
	Filter 154 (Pale Rose)	124-126	48.6-49.4%		
	Filter 157 (Pink)	127-129	49.8-50.6%		
	Filter 162 (Bastard Amber)	130-132	51-51.8%		
	Filter 164 (Flame Red)	133-135	52.2-52.9%		
	Filter 165 (Daylight Blue)	136-138	53.3-54.1%		
	Filter 169 (Lilac Tint)	139-141	54.5-55.3%		
	Filter 170 (Deep Lavender)	142-144	55.7-56.5%		
	Filter 172 (Lagoon Blue)	145-147	56.9-57.6%		
	Filter 180 (Dark Lavender)	148-150	58-58.8%		
	Filter 182 (Light Red)	151-153	59.2-60%		
	Filter 194 (Surprise Pink)	154-156	60.4-61.2%		
	Filter 197 (Alice Blue)	157-159	61.6-62.4%		
	Filter 201 (Full C.T. Blue)	160-162	62.7-63.5%		
	Filter 202 (Half C.T. Blue)	163-165	63.9-64.7%		
	Filter 203 (Quarter C.T. Blue)	166-168	65.1-65.9%		
	Filter 204 (Full C.T. Orange)	169-171	66.3-67.1%		
	Filter 206 (Quarter C.T. Orange)	172-174	67.5-68.2%		
	Filter 219 (Fluorescent Green)	175-177	68.6-69.4%		
	Filter 247 (Filter Minus Green)	178-180	69.8-70.6%		
	Filter 248 (Half Minus Green)	181-183	71-71.8%		
	Filter 281 (Three Quarter C.T. Blue)	184-186	72.2-72.9%		
	Filter 285 (Three Quarter C.T. Orange)	187-189	73.3-74.1%		
	Filter 352 (Glacier Blue)	190-192	74.5-75.3%		
	Filter 353 (Lighter Blue)	193-195	75.7-76.5%		
	Filter 507 (Madge)	196-198	76.9-77.6%		
	Filter 778 (Millennium Gold)	199-201	78-78.8%		
	Filter 793 (Vanity Fair)	202-204	79.2-80%		

Channel	Command	DMX range	Percent	Default DMX	Fade
	Filter 798 (Chrysalis Pink)	205-207	80.4-81.2%		
	Rainbow Stop - at first Color	208-210	81.6-82.4%		
	Rainbow slow→fast	211-252	82.7-98.8%		
	Rainbow Stop - at current Color	253-255	99.2-100%		

