

DMX Channel Index

FUSION by GLP X-PAR 18Z



Document revision: 20240621-01
Fixture software version 1.2.6



Document revisions

Revision number	Notes	Date released
20240621-01	X-PAR 18Z DMX Channel Index first public release. Firmware v. 1.2.6	June 2024

GLP® Fusion X-PAR 18Z DMX Channel Index

© 2024 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
www.glp.de

Service & Support USA:

GLP USA, 16170 Stagg St., Van Nuys, CA 91340
Tel (USA): +1 818 767 8899
Support (US): info@germanlightproducts.com
www.germanlightproducts.com

DMX control modes overview

The Fusion X-PAR 18Z offers the following DMX control modes.

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 RGLB.

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

Mode 1 Basic

1	Dimmer
2	Shutter
3	Zoom
4	Control / Settings
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 RGLB. 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 / Settings
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 RGLB. 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 / Settings
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 RGLB. 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 / Settings
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 / Settings
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 / Settings
4	Color Wheel

DMX control channel layout

The tables on the following pages give the layout of the commands available in all the fixture's DMX modes.

Control/Settings channel

The following commands are available on the Control/Settings channel in all DMX modes. The channel used varies depending on DMX mode.

- Where commands are marked with an asterisk * you must send that value continuously for 3 seconds to apply the command.
- Commands marked with two asterisks ** trigger a function once. If you want to repeat that function, you must stop sending that DMX value and then resend it. All other commands toggle the function on/off.
- Commands printed in **bold type** are the default settings.

Channel	Command	DMX range	Percent	Default DMX	Fade
Channel depends on DMX mode	Idle	0-9	0-3.5%	0	Snap
	iQ.Service Connect*	10-15	3.9-5.9%		
	Compatibility Off*	16-20	6.2-7.8%		
	Compatibility X-PAR 12Z	21-25	8.2-9.8%		
	Compatibility X-PAR 8Z	26-30	10.1-11.7%		
	No function	31-35	12.2-13.7%		
	Color mode RGB HQ (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%		
	Dimming speed Smooth*	56-60	22.0-23.5%		
	Dimming speed Fast*	61-65	23.9-25.5%		
	Dimming speed Snap*	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 Go to 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 On*	121-125	47.5-49.0%		
	Display backlight Off*	126-130	49.4-51.2%		
	Save settings Preset 1* **	131-135	51.4-52.9%		
	Save settings Preset 2* **	136-140	53.3-54.9%		
	Save settings Preset 3* **	141-145	55.3-56.9%		
	Load settings Preset 1* **	146-150	57.3-58.8%		
	Load settings Preset 2* **	151-155	59.2-60.8%		
	Load settings Preset 3* **	156-160	61.2-62.7%		
	Load settings Defaults* **	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%			

Channel	Command	DMX range	Percent	Default DMX	Fade
	Fixture reset* **	181-185	71.0-72.5%		
	Zoom speed Normal*	186-190	72.9-74.5%		
	Zoom speed Fast*	191-195	74.9-76.2%		
	PWM frequency 600 Hz*	196-200	76.9-78.4%		
	PWM frequency 1200 Hz*	201-205	78.8-80.4%		
	PWM frequency 2200 Hz*	206-210	80.8-82.4%		
	PWM frequency 3000 Hz*	211-215	82.7-84.3%		
	PWM frequency 4800 Hz*	216-220	84.7-86.3%		
	PWM frequency 9600 Hz*	221-225	86.7-88.2%		
	PWM frequency 25 kHz*	226-230	88.6-90.2%		
	Fan Mode Regulated*	231-235	90.6-92.1%		
	Fan Mode High*	236-240	92.5-94.1%		
	Fan Mode Medium*	241-245	94.5-96.1%		
	Fan Mode Low*	246-250	96.5-98%		
	Fixture reset* **	251-255	98.4-100%		

DMX Mode 1: Basic

8 DMX Channels

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	Master Dimmer	Intensity 0-100%	0-255	0-100%	0	Fade
2	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	130-159	51-62%		Fade
		Sync Strobe 1 Hz-10 Hz	160-239	62.8-93.7%		Fade
		Open	251-255	98.4-100%		Snap
3	Zoom	Beam angle narrow→wide	0-255	0-100%	0	Fade
4	Control / Settings – see separate table on page 6					
5	Red	Intensity 0-100%	0-255	0-100%	0	Fade
6	Green	Intensity 0-100%	0-255	0-100%	0	Fade
7	Blue	Intensity 0-100%	0-255	0-100%	0	Fade
8	Lime	Intensity 0-100%	0-255	0-100%	0	Fade

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

DMX Mode 2: Standard

11 DMX Channels

Channel	Command	DMX range	Percent	Default DMX	Fade
1 Master Dimmer	Intensity 0-100%	0-255	0-100%	0	Fade
2 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	130-159	51-62%		Fade
	Sync Strobe 1 Hz-10 Hz	160-239	62.8-93.7%		Fade
	Open	251-255	98.4-100%		Snap
3 Zoom	Beam angle narrow→wide	0-255	0-100%	0	Fade
4 Control / Settings	– see separate table on page 6				
5 Red	Intensity 0-100%	0-255	0-100%	0	Fade
6 Green	Intensity 0-100%	0-255	0-100%	0	Fade
7 Blue	Intensity 0-100%	0-255	0-100%	0	Fade
8 Lime	Intensity 0-100%	0-255	0-100%	0	Fade
9 Color Wheel	Open (set color on channels 5-8)	0-3	0-1.2%	0	Snap
	Preset 3200 K	4-6	1.6-2.4%		
	Preset 4200 K	7-9	2.7-3.5%		
	Preset 5600 K	10-12	3.9-4.7%		
	Preset 6500 K	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%			

Channel	Command	DMX range	Percent	Default DMX	Fade	
	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	Open (default color temperature)	0-15	0-5.9%	0	Snap
		10000 K	16-18	6.3-7.1%		
		9900 K	19-21	7.5-8.2%		
		9800 K	22-24	8.6-9.4%		
		9700 K	25-27	9.8-10.6%		
		9600 K	28-30	11-11.8%		
		9500 K	31-33	12.2-12.9%		
		9400 K	34-36	13.3-14.1%		
		9300 K	37-39	14.5-15.3%		
		9200 K	40-42	15.7-16.5%		
		9100 K	43-45	16.9-17.6%		
		9000 K	46-48	18-18.8%		
		8900 K	49-51	19.2-20%		
		8800 K	52-54	20.4-21.2%		
		8700 K	55-57	21.6-22.4%		

Channel	Command	DMX range	Percent	Default DMX	Fade
	8600 K	58-60	22.7-23.5%		
	8500 K	61-63	23.9-24.7%		
	8400 K	64-66	25.1-25.9%		
	8300 K	67-69	26.3-27.1%		
	8200 K	70-72	27.5-28.2%		
	8100 K	73-75	28.6-29.4%		
	8000 K	76-78	29.8-30.6%		
	7900 K	79-81	31-31.8%		
	7800 K	82-84	32.2-32.9%		
	7700 K	85-87	33.3-34.1%		
	7600 K	88-90	34.5-35.3%		
	7500 K	91-93	35.7-36.5%		
	7400 K	94-96	36.9-37.6%		
	7300 K	97-99	38-38.8%		
	7200 K	100-102	39.2-40%		
	7100 K	103-105	40.4-41.2%		
	7000 K	106-108	41.6-42.4%		
	6900 K	109-111	42.7-43.5%		
	6800 K	112-114	43.9-44.7%		
	6700 K	115-117	45.1-45.9%		
	6600 K	118-120	46.3-47.1%		
	6500 K	121-123	47.5-48.2%		
	6400 K	124-126	48.6-49.4%		
	6300 K	127-129	49.8-50.6%		
	6200 K	130-132	51-51.8%		
	6100 K	133-135	52.2-52.9%		
	6000 K	136-138	53.3-54.1%		
	5900 K	139-141	54.5-55.3%		
	5800 K	142-144	55.7-56.5%		
	5700 K	145-147	56.9-57.6%		
	5600 K	148-150	58-58.8%		
	5500 K	151-153	59.2-60%		
	5400 K	154-156	60.4-61.2%		
	5300 K	157-159	61.6-62.4%		
	5200 K	160-162	62.7-63.5%		
	5100 K	163-165	63.9-64.7%		
	5000 K	166-168	65.1-65.9%		
	4900 K	169-171	66.3-67.1%		
	4800 K	172-174	67.5-68.2%		
	4700 K	175-177	68.6-69.4%		
	4600 K	178-180	69.8-70.6%		
	4500 K	181-183	71-71.8%		
	4400 K	184-186	72.2-72.9%		
	4300 K	187-189	73.3-74.1%		
	4200 K	190-192	74.5-75.3%		
	4100 K	193-195	75.7-76.5%		
	4000 K	196-198	76.9-77.6%		
	3900 K	199-201	78-78.8%		
	3800 K	202-204	79.2-80%		
	3700 K	205-207	80.4-81.2%		
	3600 K	208-210	81.6-82.4%		
	3500 K	211-213	82.7-83.5%		
	3400 K	214-216	83.9-84.7%		
	3300 K	217-219	85.1-85.9%		

Channel	Command	DMX range	Percent	Default DMX	Fade	
	3200 K	220-222	86.3-87.1%			
	3100 K	223-225	87.5-88.2%			
	3000 K	226-228	88.6-89.4%			
	2900 K	229-231	89.8-90.6%			
	2800 K	232-234	91-91.8%			
	2700 K	235-237	92.2-92.9%			
	2600 K	238-240	93.3-94.1%			
	2500 K	241-255	94.5-100%			
11	M/G Shift	Off (no effect)	0-9	0-3.5%	0	Snap
		Full Plus Magenta +100%	10	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%	255	100%		Snap

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	130-159	51-62%		Fade
		Sync Strobe 1 Hz-10 Hz	160-239	62.8-93.7%		Fade
		Open	251-255	98.4-100%		Snap
4	Zoom	Beam angle narrow→wide	0-255	0-100%	0	Fade
5	Control / Settings – see separate table on page 6					
6	Red	Intensity 0-100% (16-bit)	0-65535	0-100%	0	Fade
7	Red Fine					
8	Green	Intensity 0-100% (16-bit)	0-65535	0-100%	0	Fade
9	Green fine					
10	Blue	Intensity 0-100% (16-bit)	0-65535	0-100%	0	Fade
11	Blue fine					
12	Lime	Intensity 0-100% (16-bit)	0-65535	0-100%	0	Fade
13	Lime fine					
14	Color Wheel	Open (set color on channels 6-13)	0-3	0-1.2%	0	Snap
		Preset 3200 K	4-6	1.6-2.4%		
		Preset 4200 K	7-9	2.7-3.5%		
		Preset 5600 K	10-12	3.9-4.7%		
		Preset 6500 K	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%				

Channel	Command	DMX range	Percent	Default DMX	Fade	
	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%			
15	CTC	Open (default color temperature)	0-15	0-5.9%	0	Snap
		10000 K	16-18	6.3-7.1%		
		9900 K	19-21	7.5-8.2%		
		9800 K	22-24	8.6-9.4%		
		9700 K	25-27	9.8-10.6%		
		9600 K	28-30	11-11.8%		
		9500 K	31-33	12.2-12.9%		
		9400 K	34-36	13.3-14.1%		

Channel	Command	DMX range	Percent	Default DMX	Fade
	9300 K	37-39	14.5-15.3%		
	9200 K	40-42	15.7-16.5%		
	9100 K	43-45	16.9-17.6%		
	9000 K	46-48	18-18.8%		
	8900 K	49-51	19.2-20%		
	8800 K	52-54	20.4-21.2%		
	8700 K	55-57	21.6-22.4%		
	8600 K	58-60	22.7-23.5%		
	8500 K	61-63	23.9-24.7%		
	8400 K	64-66	25.1-25.9%		
	8300 K	67-69	26.3-27.1%		
	8200 K	70-72	27.5-28.2%		
	8100 K	73-75	28.6-29.4%		
	8000 K	76-78	29.8-30.6%		
	7900 K	79-81	31-31.8%		
	7800 K	82-84	32.2-32.9%		
	7700 K	85-87	33.3-34.1%		
	7600 K	88-90	34.5-35.3%		
	7500 K	91-93	35.7-36.5%		
	7400 K	94-96	36.9-37.6%		
	7300 K	97-99	38-38.8%		
	7200 K	100-102	39.2-40%		
	7100 K	103-105	40.4-41.2%		
	7000 K	106-108	41.6-42.4%		
	6900 K	109-111	42.7-43.5%		
	6800 K	112-114	43.9-44.7%		
	6700 K	115-117	45.1-45.9%		
	6600 K	118-120	46.3-47.1%		
	6500 K	121-123	47.5-48.2%		
	6400 K	124-126	48.6-49.4%		
	6300 K	127-129	49.8-50.6%		
	6200 K	130-132	51-51.8%		
	6100 K	133-135	52.2-52.9%		
	6000 K	136-138	53.3-54.1%		
	5900 K	139-141	54.5-55.3%		
	5800 K	142-144	55.7-56.5%		
	5700 K	145-147	56.9-57.6%		
	5600 K	148-150	58-58.8%		
	5500 K	151-153	59.2-60%		
	5400 K	154-156	60.4-61.2%		
	5300 K	157-159	61.6-62.4%		
	5200 K	160-162	62.7-63.5%		
	5100 K	163-165	63.9-64.7%		
	5000 K	166-168	65.1-65.9%		
	4900 K	169-171	66.3-67.1%		
	4800 K	172-174	67.5-68.2%		
	4700 K	175-177	68.6-69.4%		
	4600 K	178-180	69.8-70.6%		
	4500 K	181-183	71-71.8%		
	4400 K	184-186	72.2-72.9%		
	4300 K	187-189	73.3-74.1%		
	4200 K	190-192	74.5-75.3%		
	4100 K	193-195	75.7-76.5%		
	4000 K	196-198	76.9-77.6%		

Channel	Command	DMX range	Percent	Default DMX	Fade	
	3900 K	199-201	78-78.8%			
	3800 K	202-204	79.2-80%			
	3700 K	205-207	80.4-81.2%			
	3600 K	208-210	81.6-82.4%			
	3500 K	211-213	82.7-83.5%			
	3400 K	214-216	83.9-84.7%			
	3300 K	217-219	85.1-85.9%			
	3200 K	220-222	86.3-87.1%			
	3100 K	223-225	87.5-88.2%			
	3000 K	226-228	88.6-89.4%			
	2900 K	229-231	89.8-90.6%			
	2800 K	232-234	91-91.8%			
	2700 K	235-237	92.2-92.9%			
	2600 K	238-240	93.3-94.1%			
	2500 K	241-255	94.5-100%			
16	M/G Shift	Off (no effect)	0-9	0-3.5%	0	Snap
		Full Plus Magenta +100%	10-10	3.9-3.9%		Fade
		Plus Magenta +99% → +1%	11-124	4.3-48.6%		Snap
		Neutral / no effect	125-140	49-54.9%		Fade
		Plus Green +1% → +99%	141-254	55.3-99.6%		Snap
		Full Plus Green +100%	255-255	100-100%		Snap

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	Zoom	Beam angle narrow→wide	0-255	0-100%	0	Fade
2	Control / Settings – see separate table on page 6					
3	Red	Intensity 0-100%	0-255	0-100%	0	Fade
4	Green	Intensity 0-100%	0-255	0-100%	0	Fade
5	Blue	Intensity 0-100%	0-255	0-100%	0	Fade
6	Lime	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	Master Dimmer	Intensity 0-100%	0-255	0-100%	0	Fade
2	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	130-159	51-62%		Fade
		Sync Strobe 1Hz-10Hz	160-239	62.8-93.7%		Fade
		Open	251-255	98.4-100%		Snap
3	Zoom	Beam angle narrow→wide	0-255	0-100%	0	Fade
4	Control / Settings – see separate table on page 6					
5	CTC	Open (default color temperature)	0-15	0-5.9%	0	Snap
		10000 K	16-18	6.3-7.1%		
		9900 K	19-21	7.5-8.2%		
		9800 K	22-24	8.6-9.4%		
		9700 K	25-27	9.8-10.6%		
		9600 K	28-30	11-11.8%		
		9500 K	31-33	12.2-12.9%		
		9400 K	34-36	13.3-14.1%		
		9300 K	37-39	14.5-15.3%		
		9200 K	40-42	15.7-16.5%		
		9100 K	43-45	16.9-17.6%		
		9000 K	46-48	18-18.8%		
		8900 K	49-51	19.2-20%		
		8800 K	52-54	20.4-21.2%		
		8700 K	55-57	21.6-22.4%		
		8600 K	58-60	22.7-23.5%		
		8500 K	61-63	23.9-24.7%		
		8400 K	64-66	25.1-25.9%		
		8300 K	67-69	26.3-27.1%		
		8200 K	70-72	27.5-28.2%		
		8100 K	73-75	28.6-29.4%		
		8000 K	76-78	29.8-30.6%		
		7900 K	79-81	31-31.8%		
		7800 K	82-84	32.2-32.9%		
		7700 K	85-87	33.3-34.1%		
		7600 K	88-90	34.5-35.3%		
		7500 K	91-93	35.7-36.5%		
		7400 K	94-96	36.9-37.6%		
		7300 K	97-99	38-38.8%		
		7200 K	100-102	39.2-40%		
		7100 K	103-105	40.4-41.2%		
7000 K	106-108	41.6-42.4%				
6900 K	109-111	42.7-43.5%				
6800 K	112-114	43.9-44.7%				
6700 K	115-117	45.1-45.9%				
6600 K	118-120	46.3-47.1%				

Channel	Command	DMX range	Percent	Default DMX	Fade	
	6500 K	121-123	47.5-48.2%			
	6400 K	124-126	48.6-49.4%			
	6300 K	127-129	49.8-50.6%			
	6200 K	130-132	51-51.8%			
	6100 K	133-135	52.2-52.9%			
	6000 K	136-138	53.3-54.1%			
	5900 K	139-141	54.5-55.3%			
	5800 K	142-144	55.7-56.5%			
	5700 K	145-147	56.9-57.6%			
	5600 K	148-150	58-58.8%			
	5500 K	151-153	59.2-60%			
	5400 K	154-156	60.4-61.2%			
	5300 K	157-159	61.6-62.4%			
	5200 K	160-162	62.7-63.5%			
	5100 K	163-165	63.9-64.7%			
	5000 K	166-168	65.1-65.9%			
	4900 K	169-171	66.3-67.1%			
	4800 K	172-174	67.5-68.2%			
	4700 K	175-177	68.6-69.4%			
	4600 K	178-180	69.8-70.6%			
	4500 K	181-183	71-71.8%			
	4400 K	184-186	72.2-72.9%			
	4300 K	187-189	73.3-74.1%			
	4200 K	190-192	74.5-75.3%			
	4100 K	193-195	75.7-76.5%			
	4000 K	196-198	76.9-77.6%			
	3900 K	199-201	78-78.8%			
	3800 K	202-204	79.2-80%			
	3700 K	205-207	80.4-81.2%			
	3600 K	208-210	81.6-82.4%			
	3500 K	211-213	82.7-83.5%			
	3400 K	214-216	83.9-84.7%			
	3300 K	217-219	85.1-85.9%			
	3200 K	220-222	86.3-87.1%			
	3100 K	223-225	87.5-88.2%			
	3000 K	226-228	88.6-89.4%			
	2900 K	229-231	89.8-90.6%			
	2800 K	232-234	91-91.8%			
	2700 K	235-237	92.2-92.9%			
	2600 K	238-240	93.3-94.1%			
	2500 K	241-255	94.5-100%			
6	M/G Shift	Off (no effect)	0-9	0-3.5%	0	Snap
		Full Plus Magenta +100%	10	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%	255-255	100-100%		Snap

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 narrow→wide	0-255	0-100%	0	Fade
3	Control / Settings – see separate table on page 6					
4	Color Wheel	Open (default color temperature)	0-3	0-1.2%	0	Snap
		Preset 3200 K	4-6	1.6-2.4%		
		Preset 4200 K	7-9	2.7-3.5%		
		Preset 5600 K	10-12	3.9-4.7%		
		Preset 6500 K	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%				

Channel	Command	DMX range	Percent	Default DMX	Fade
	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%		

-GLP-