



Fusion Stick FS10

DMX Channel Index

Software version 1.0.1.7



GLP® Fusion Stick FS10 DMX Channel Index – Revision A

This document covers fixture software version 1.0.1.7

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Table of Contents

1. DMX control modes overview	4
2. DMX control channel layout.....	9
DMX Mode 1: Standard (default DMX mode)	10
DMX Mode 2: Advanced.....	13
DMX Mode 3: RGBW	16
DMX Mode 4: Compressed	17
DMX Mode 5: Pixel.....	18
DMX Mode 6: Compressed pixel	22
DMX Mode 7: Pixel Dimming	23
DMX Mode 8: Patterns	26
DMX Mode 9: Rocket	30

1. DMX control modes overview

The following DMX control modes are available in the FS20.

DMX Mode 1: Standard uses 12 channels. It provides a virtual color wheel (color presets) and RGBW color mixing. A separate Shutter channel provides strobe, pulse and ramp-up/down effects and a Master dimmer channel controls overall intensity.

Color temperature control is available on a separate CTO channel, and a wide range of pre-programmed static and animated patterns are available. The animated patterns have variable movement and crossfading speed.

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

Mode 1 Standard

1	Color wheel
2	Red
3	Green
4	Blue
5	White
6	Shutter
7	Master dimmer
8	CTO
9	Pattern select
10	Pattern speed
11	Pattern fade
12	Control/Settings

DMX Mode 2: Advanced uses 17 channels. It provides a virtual color wheel (color presets) and 16-bit RGBW color mixing. A separate Shutter channel provides strobe, pulse and ramp-up/down effects and a Master dimmer channel provides 16-bit control of overall intensity.

Color temperature control is available on a separate CTO channel, and a wide range of pre-programmed static and animated patterns are available. The animated patterns have variable movement and crossfading speed.

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

Mode 2 Advanced

1	Color wheel
2	Red
3	Red fine
4	Green
5	Green fine
6	Blue
7	Blue fine
8	White
9	White fine
10	Shutter
11	Master dimmer
12	Master dimmer fine
13	CTO
14	Pattern select
15	Pattern speed
16	Pattern fade
17	Control/Settings

DMX Mode 3: RGBW uses 4 channels. It provides RGBW color mixing of the entire fixture with a minimal DMX footprint.

**Mode 3
RGBW**

1	Red
2	Green
3	Blue
4	White

DMX Mode 4: Compressed uses 6 channels. It provides the main control options: RGBW color mixing, shutter effects and overall dimming.

**Mode 4
Compressed**

1	Red
2	Green
3	Blue
4	White
5	Shutter
6	Master dimmer

DMX Mode 5: Pixel uses 52 channels. It provides a virtual color wheel (color presets) and RGBW color mixing. A separate Shutter channel provides strobe, pulse and ramp-up/down effects and a Master dimmer channel controls overall intensity.

**Mode 5
Pixel**

1	Color wheel
2	Red
3	Green
4	Blue
5	White
6	Shutter
7	Master dimmer
8	CTO
9	Pattern select
10	Pattern speed
11	Pattern fade
12	Control/Settings
13	Pixel 1 Red
14	Pixel 1 Green
15	Pixel 1 Blue
16	Pixel 1 White
17	Pixel 2 Red
18	Pixel 2 Green
19	Pixel 2 Blue
20	Pixel 2 White
...	...
49	Pixel 10 Red
50	Pixel 10 Green
51	Pixel 10 Blue
52	Pixel 10 White

Color temperature control is available on a separate CTO channel, and a wide range of pre-programmed static and animated patterns are available. The animated patterns have variable movement and crossfading speed.

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

This mode also offers individual pixel-level RGBW color mixing.

DMX Mode 6: Compressed Pixel uses 40 channels. It provides individual pixel-level RGBW color mixing.

Mode 6 Compressed Pixel	
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1	Pixel 1 Red
2	Pixel 1 Green
3	Pixel 1 Blue
4	Pixel 1 White
5	Pixel 2 Red
6	Pixel 2 Green
7	Pixel 2 Blue
8	Pixel 2 White
...	...
37	Pixel 10 Red
38	Pixel 10 Green
39	Pixel 10 Blue
40	Pixel 10 White

DMX Mode 7: Pixel Dimming uses 22 channels. It provides a virtual color wheel (color presets) and RGBW color mixing. A separate Shutter channel provides strobe, pulse and ramp-up/down effects and a Master dimmer channel controls overall intensity.

Color temperature control is available on a separate CTO channel, and a wide range of pre-programmed static and animated patterns are available. The animated patterns have variable movement and crossfading speed.

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

This mode also offers individual pixel-level dimming.

Mode 7 Pixel Dimming	
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1	Color wheel
2	Red
3	Green
4	Blue
5	White
6	Shutter
7	Master dimmer
8	CTO
9	Pattern select
10	Pattern speed
11	Pattern fade
12	Control/Settings
13	Pixel 1 Dimming
14	Pixel 2 Dimming
15	Pixel 3 Dimming
16	Pixel 4 Dimming
17	Pixel 5 Dimming
18	Pixel 6 Dimming
19	Pixel 7 Dimming
20	Pixel 8 Dimming
21	Pixel 9 Dimming
22	Pixel 10 Dimming

DMX Mode 8: Patterns uses 27

channels. It provides a virtual color wheel (color presets) and RGBW color mixing. A separate Shutter channel provides strobe, pulse and ramp-up/down effects and a Master dimmer channel controls overall intensity.

Color temperature control is available on a separate CTO channel.

Patterns with variable movement and crossfading speed are available, with two layers of pattern overlays. Each pattern layer has RGBW color mixing, shutter effects and dimming.

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

**Mode 8
Patterns**

1	Color wheel
2	Red
3	Green
4	Blue
5	White
6	Shutter
7	Master dimmer
8	CTO
9	Pattern 1 select
10	Pattern 1 speed
11	Pattern 1 fade
12	Pattern 1 red
13	Pattern 1 green
14	Pattern 1 blue
15	Pattern 1 white
16	Pattern 1 shutter
17	Pattern 1 dimmer
18	Pattern 2 select
19	Pattern 2 speed
20	Pattern 2 fade
21	Pattern 2 red
22	Pattern 2 green
23	Pattern 2 blue
24	Pattern 2 white
25	Pattern 2 shutter
26	Pattern 2 dimmer
27	Control/Settings

DMX Mode 9: Rocket uses 61 channels. It provides individual pixel-level RGBW color mixing.

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

Two layers of patterns with variable movement and crossfading speed are available. Pattern 1 is the base layer, and Pattern 2 is the top layer – Pattern 2 appears over the top of Pattern 1. Each pattern layer has RGBW color mixing, shutter effects and dimming.

Mode 9 Rocket	
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1	Pixel 1 Red
2	Pixel 1 Green
3	Pixel 1 Blue
4	Pixel 1 White
5	Pixel 2 Red
6	Pixel 2 Green
7	Pixel 2 Blue
8	Pixel 2 White
...	...
37	Pixel 20 Red
38	Pixel 20 Green
39	Pixel 20 Blue
40	Pixel 20 White
41	Shutter
42	Master dimmer
43	Control/Settings
44	Pattern 1 select
45	Pattern 1 speed
46	Pattern 1 fade
47	Pattern 1 red
48	Pattern 1 green
49	Pattern 1 blue
50	Pattern 1 white
51	Pattern 1 shutter
52	Pattern 1 dimmer
53	Pattern 2 select
54	Pattern 2 speed
55	Pattern 2 fade
56	Pattern 2 red
57	Pattern 2 green
58	Pattern 2 blue
59	Pattern 2 white
60	Pattern 2 shutter
61	Pattern 2 dimmer

2. DMX control channel layout

In the following DMX channel layout tables:

- Default settings are indicated with **bold type**.
- 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: Standard (default DMX mode)
12 DMX Channels

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	Color wheel	No function: RGBW color mixing	0-5	0-2.0%	0	Snap
		LEE 790 - Moroccan Pink	6-10	2.4-3.9%		
		LEE 157 - Pink	11-15	4.3-5.9%		
		LEE 332 - Special Rose Pink	16-20	6.3-7.8%		
		LEE 328 - Follies Pink	21-25	8.2-9.8%		
		LEE 345 - Fuchsia Pink	26-30	10.2-11.8%		
		LEE 194 - Surprise Pink	31-35	12.2-13.7%		
		LEE 181 - Congo Blue	36-40	14.1-15.7%		
		LEE 071 - Tokyo Blue	41-45	16.1-17.6%		
		LEE 120 - Deep Blue	46-50	18.0-19.6%		
		LEE 079 - Just Blue	51-55	20.0-21.6%		
		LEE 132 - Medium Blue	56-60	22.0-23.5%		
		LEE 200 - Double CT Blue	61-65	23.9-25.5%		
		LEE 161 - Slate Blue	66-70	25.9-27.5%		
		LEE 201 - Full CT Blue	71-75	27.8-29.4%		
		LEE 202 - Half CT Blue	76-80	29.8-31.4%		
		LEE 117 - Steel Blue	81-85	31.8-33.3%		
		LEE 353 - Lighter Blue	86-90	33.7-35.3%		
		LEE 118 - Light Blue	91-95	35.7-37.3%		
		LEE 116 - Medium Blue Green	96-100	37.6-39.2%		
		LEE 124 - Dark Green	101-105	39.6-41.2%		
		LEE 139 - Primary Green	106-110	41.6-43.1%		
		LEE 089 - Moss Green	111-115	43.5-45.1%		
		LEE 122 - Fern Green	116-120	45.5-47.1%		
		LEE 738 - JAS Green	121-125	47.5-49.0%		
		LEE 088 - Lime Green	126-130	49.4-51.0%		
		LEE 100 - Spring Yellow	131-135	51.4-52.9%		
		LEE 104 - Deep Amber	136-140	53.3-54.9%		
		LEE 179 - Chrome Orange	141-145	55.3-56.9%		
		LEE 105 - Orange	146-150	57.3-58.8%		
		LEE 021 - Gold Amber	151-155	59.2-60.8%		
		LEE 778 - Millennium Gold	156-160	61.2-62.7%		
		LEE 135 - Deep Golden Amber	161-165	63.1-64.7%		
		LEE 164 - Flame Red	166-170	65.1-66.7%		
		Color wheel rotation forwards fast-slow	171-185	67.1-72.5%		
		Color wheel stops at current color	186-190	72.9-74.5%		
		Color wheel rotation backwards fast-slow	191-205	74.9-80.4%		
		Color wheel stops at current color	206-210	80.8-82.4%		
		Random colors fast-slow	211-225	82.7-88.2%		
		Tungsten simulation	226-230	88.6-90.2%		
Warm white - 3200K	231-235	90.6-92.2%				
Neutral white - 4200K	236-240	92.5-94.1%				
Cool white - 5600K	241-245	94.5-96.1%				
Cool white - 7200K	246-250	96.5-98.0%				
Cool white - 8000K	251-255	98.4-100%				

2	Red	Intensity 0-100%	0-255	0-100%	0	Fade
3	Green	Intensity 0-100%	0-255	0-100%	0	Fade
4	Blue	Intensity 0-100%	0-255	0-100%	0	Fade
5	White	Intensity 0-100%	0-255	0-100%	0	Fade
6	Shutter	Shutter closed	0-15	0-5.9%	0	Snap
		Random strobe	16-47	6.3-18.4%		
		Ramp up slow-fast	48-79	18.8-31.0%		
		Ramp down slow-fast	80-111	31.4-43.5%		
		Ramp up-down slow-fast	112-143	43.9-56.1%		
		Strobe pause 5s – 1s (slow – fast)	144-199	56.5-78.0%		
		Strobe 1Hz – 20 Hz (slow – fast)	200-239	78.4-93.7%		
		Shutter open	240-255	94.1-100%		
7	Dimmer	Master intensity 0-100%	0-255	0-100%	0	Fade
8	CTO	Color temperature cool-warm	0-255	0-100%	0	Fade
9	Pattern selection	No Pattern – all pixels lit	0-5	0-2.0%	0	Snap
		Static Patterns	6-79	2.4-3.1%		
		Single pixel chase	80-83	31.4-32.5%		
		Single pixel chase and return	84-87	32.9-34.1%		
		2-pixel block chase	88-91	34.5-35.7%		
		2-pixel block bounce	92-95	36.1-37.3%		
		4-pixel block chase	96-99	37.6-38.8%		
		4-pixel block bounce	100-103	39.2-40.4%		
		5-pixel block chase	104-107	40.8-42.0%		
		5-pixel block bounce	108-111	42.4-43.5%		
		5 pixels chase	112-115	43.9-45.1%		
		5 pixels bounce	116-119	45.5-46.7%		
		4 pixels chase	120-123	47.1-48.2%		
		4 pixels bounce	124-127	48.6-49.8%		
		2 pixels to center chase	128-131	50.2-51.4%		
		2 pixels to center bounce	132-135	51.8-52.9%		
		3-pixel block chase	136-139	53.3-54.5%		
		3-pixel block bounce	140-143	54.9-56.1%		
		Fill from left	144-147	56.5-57.6%		
		20-pixel block chase	148-151	58.0-59.2%		
		Alternating single pixels chase	152-153	59.6-60.0%		
		Alternating 4-pixel block chase	154-155	60.4-60.8%		
		Random single pixel / inverted	156-157	61.2-61.6%		
		Random 2 pixels / inverted	158-159	62.0-62.4%		
		Random 3 pixels / inverted	160-161	62.7-63.1%		
		Random 4 pixels / inverted	162-163	63.5-63.9%		
Random 5 pixels / inverted	164-165	64.3-64.7%				
Random 6 pixels / inverted	166-167	65.1-65.5%				
Random 7 pixels / inverted	168-169	65.9-66.3%				
Random 8 pixels / inverted	170-171	66.7-67.1%				
Random 9 pixels / inverted	172-173	67.5-67.8%				
No function	174-255	68.2-100%				
10	Pattern speed	Pattern speed slow-fast	0-255	0-100%	0	Fade
11	Pattern fade	Pattern intensity 0-100%	0-255	0-100%	0	Fade

Control / Settings						
12	Control / Settings	No function	0-55	0-21.6%	0	Snap
		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 stand-alone scene*	106-110	41.6-43.1%		
		No Function	111-115	43.5-45.1%		
		Display backlight On*	116-120	45.5-47.1%		
		Display backlight Off*	121-125	47.5-49.0%		
		No Function	126-140	49.4-54.9%		
		DMX Mode: Standard*	141-145	55.3-56.9%		
		DMX Mode: Advanced*	146-150	57.3-58.8%		
		DMX Mode: Pattern*	151-155	59.2-60.8%		
		DMX Mode: Pixel*	156-160	61.2-62.7%		
		DMX Mode: Compressed*	161-165	63.1-64.7%		
		DMX Mode: Pixel Dim*	166-170	65.1-66.7%		
		No function	171-180	67.1-70.6%		
		Fixture reset	181-185	71.0-72.5%		
		Factory default settings (except DMX address)*	186-190	72.9-74.5%		
		No function	191-230	74.9-90.2%		
		Boot Mode Auto*	231-235	90.6-92.2%		
		Boot Mode DMX*	236-240	92.5-94.1%		
		Boot Mode Play Stand-alone *	241-245	94.5-96.1%		
		Boot Mode Static*	246-250	96.5-98.0%		
No function	251-252	98.4-100%				

DMX Mode 2: Advanced**17 DMX Channels**

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	Color wheel	No function: RGBW color mixing	0-5	0-2.0%	0	Snap
		LEE 790 - Moroccan Pink	6-10	2.4-3.9%		
		LEE 157 - Pink	11-15	4.3-5.9%		
		LEE 332 - Special Rose Pink	16-20	6.3-7.8%		
		LEE 328 - Follies Pink	21-25	8.2-9.8%		
		LEE 345 - Fuchsia Pink	26-30	10.2-11.8%		
		LEE 194 - Surprise Pink	31-35	12.2-13.7%		
		LEE 181 - Congo Blue	36-40	14.1-15.7%		
		LEE 071 - Tokyo Blue	41-45	16.1-17.6%		
		LEE 120 - Deep Blue	46-50	18.0-19.6%		
		LEE 079 - Just Blue	51-55	20.0-21.6%		
		LEE 132 - Medium Blue	56-60	22.0-23.5%		
		LEE 200 - Double CT Blue	61-65	23.9-25.5%		
		LEE 161 - Slate Blue	66-70	25.9-27.5%		
		LEE 201 - Full CT Blue	71-75	27.8-29.4%		
		LEE 202 - Half CT Blue	76-80	29.8-31.4%		
		LEE 117 - Steel Blue	81-85	31.8-33.3%		
		LEE 353 - Lighter Blue	86-90	33.7-35.3%		
		LEE 118 - Light Blue	91-95	35.7-37.3%		
		LEE 116 - Medium Blue Green	96-100	37.6-39.2%		
		LEE 124 - Dark Green	101-105	39.6-41.2%		
		LEE 139 - Primary Green	106-110	41.6-43.1%		
		LEE 089 - Moss Green	111-115	43.5-45.1%		
		LEE 122 - Fern Green	116-120	45.5-47.1%		
		LEE 738 - JAS Green	121-125	47.5-49.0%		
		LEE 088 - Lime Green	126-130	49.4-51.0%		
		LEE 100 - Spring Yellow	131-135	51.4-52.9%		
		LEE 104 - Deep Amber	136-140	53.3-54.9%		
		LEE 179 - Chrome Orange	141-145	55.3-56.9%		
		LEE 105 - Orange	146-150	57.3-58.8%		
		LEE 021 - Gold Amber	151-155	59.2-60.8%		
		LEE 778 - Millennium Gold	156-160	61.2-62.7%		
		LEE 135 - Deep Golden Amber	161-165	63.1-64.7%		
		LEE 164 - Flame Red	166-170	65.1-66.7%		
		Color wheel rotation forwards fast-slow	171-185	67.1-72.5%		
		Color wheel stops at current color	186-190	72.9-74.5%		
		Color wheel rotation backwards fast-slow	191-205	74.9-80.4%		
		Color wheel stops at current color	206-210	80.8-82.4%		
		Random colors fast-slow	211-225	82.7-88.2%		
		Tungsten simulation	226-230	88.6-90.2%		
Warm white - 3200K	231-235	90.6-92.2%				
Neutral white - 4200K	236-240	92.5-94.1%				
Cool white - 5600K	241-245	94.5-96.1%				
Cool white - 7200K	246-250	96.5-98.0%				
Cool white - 8000K	251-255	98.4-100%				

2	Red	Intensity 0-100% (16-bit)	0-255	0-100%	0	Fade
3	Red fine		0-255	0-100%	0	Fade
4	Green	Intensity 0-100% (16-bit)	0-255	0-100%	0	Fade
5	Green fine		0-255	0-100%	0	Fade
6	Blue	Intensity 0-100% (16-bit)	0-255	0-100%	0	Fade
7	Blue fine		0-255	0-100%	0	Fade
8	White	Intensity 0-100% (16-bit)	0-255	0-100%	0	Fade
9	White fine		0-255	0-100%	0	Fade
10	Shutter	Shutter closed	0-15	0-5.9%	0	Snap
		Random strobe	16-47	6.3-18.4%		
		Ramp up slow-fast	48-79	18.8-31.0%		
		Ramp down slow-fast	80-111	31.4-43.5%		
		Ramp up-down slow-fast	112-143	43.9-56.1%		
		Strobe pause 5s – 1s (slow – fast)	144-199	56.5-78.0%		
		Strobe 1Hz – 20 Hz (slow – fast)	200-239	78.4-93.7%		
		Shutter open	240-255	94.1-100%		
11	Dimmer	Master intensity 0-100% (16-bit)	0-255	0-100%	0	Fade
12	Dimmer fine		0-255	0-100%	0	Fade
13	CTO	Color temperature cool-warm	0-255	0-100%	0	Fade
14	Pattern selection	No Pattern – all pixels lit	0-5	0-2.0%	0	Snap
		Static Patterns	6-79	2.4-3.1%		
		Single pixel chase	80-83	31.4-32.5%		
		Single pixel chase and return	84-87	32.9-34.1%		
		2-pixel block chase	88-91	34.5-35.7%		
		2-pixel block bounce	92-95	36.1-37.3%		
		4-pixel block chase	96-99	37.6-38.8%		
		4-pixel block bounce	100-103	39.2-40.4%		
		5-pixel block chase	104-107	40.8-42.0%		
		5-pixel block bounce	108-111	42.4-43.5%		
		5 pixels chase	112-115	43.9-45.1%		
		5 pixels bounce	116-119	45.5-46.7%		
		4 pixels chase	120-123	47.1-48.2%		
		4 pixels bounce	124-127	48.6-49.8%		
		2 pixels to center chase	128-131	50.2-51.4%		
		2 pixels to center bounce	132-135	51.8-52.9%		
		3-pixel block chase	136-139	53.3-54.5%		
		3-pixel block bounce	140-143	54.9-56.1%		
		Fill from left	144-147	56.5-57.6%		
		20-pixel block chase	148-151	58.0-59.2%		
		Alternating single pixels chase	152-153	59.6-60.0%		
		Alternating 4-pixel block chase	154-155	60.4-60.8%		
		Random single pixel / inverted	156-157	61.2-61.6%		
		Random 2 pixels / inverted	158-159	62.0-62.4%		
		Random 3 pixels / inverted	160-161	62.7-63.1%		
		Random 4 pixels / inverted	162-163	63.5-63.9%		
		Random 5 pixels / inverted	164-165	64.3-64.7%		
		Random 6 pixels / inverted	166-167	65.1-65.5%		
Random 7 pixels / inverted	168-169	65.9-66.3%				
Random 8 pixels / inverted	170-171	66.7-67.1%				
Random 9 pixels / inverted	172-173	67.5-67.8%				
No function	174-255	68.2-100%				
15	Pattern speed	Pattern speed slow-fast	0-255	0-100%	0	Fade
16	Pattern fade	Pattern intensity 0-100%	0-255	0-100%	0	Fade

Control / Settings						
17	Control / Settings	No function	0-55	0-21.6%	0	Snap
		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 stand-alone scene*	106-110	41.6-43.1%		
		No Function	111-115	43.5-45.1%		
		Display backlight On*	116-120	45.5-47.1%		
		Display backlight Off*	121-125	47.5-49.0%		
		No Function	126-140	49.4-54.9%		
		DMX Mode: Standard*	141-145	55.3-56.9%		
		DMX Mode: Advanced*	146-150	57.3-58.8%		
		DMX Mode: Pattern*	151-155	59.2-60.8%		
		DMX Mode: Pixel*	156-160	61.2-62.7%		
		DMX Mode: Compressed*	161-165	63.1-64.7%		
		DMX Mode: Pixel Dim*	166-170	65.1-66.7%		
		No function	171-180	67.1-70.6%		
		Fixture reset	181-185	71.0-72.5%		
		Factory default settings (except DMX address)*	186-190	72.9-74.5%		
		No function	191-230	74.9-90.2%		
		Boot Mode Auto*	231-235	90.6-92.2%		
		Boot Mode DMX*	236-240	92.5-94.1%		
		Boot Mode Play Stand-alone *	241-245	94.5-96.1%		
		Boot Mode Static*	246-250	96.5-98.0%		
No function	251-252	98.4-100%				

DMX Mode 3: RGBW**4 DMX Channels**

Channel		Command	DMX range	Percent	Default DMX	Fade
1	Red	Intensity 0-100%	0-255	0-100%	0	Fade
2	Green	Intensity 0-100%	0-255	0-100%	0	Fade
3	Blue	Intensity 0-100%	0-255	0-100%	0	Fade
4	White	Intensity 0-100%	0-255	0-100%	0	Fade

DMX Mode 4: Compressed

6 DMX Channels

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	Red	Intensity 0-100%	0-255	0-100%	0	Fade
2	Green	Intensity 0-100%	0-255	0-100%	0	Fade
3	Blue	Intensity 0-100%	0-255	0-100%	0	Fade
4	White	Intensity 0-100%	0-255	0-100%	0	Fade
5	Shutter	Shutter closed	0-15	0-5.9%	0	Snap
		Random strobe	16-47	6.3-18.4%		
		Ramp up slow-fast	48-79	18.8-31.0%		
		Ramp down slow-fast	80-111	31.4-43.5%		
		Ramp up-down slow-fast	112-143	43.9-56.1%		
		Strobe pause 5s – 1s (slow – fast)	144-199	56.5-78.0%		
		Strobe 1Hz – 20 Hz (slow – fast)	200-239	78.4-93.7%		
Shutter open	240-255	94.1-100%				
6	Dimmer	Master intensity 0-100%	0-255	0-100%	0	Fade

DMX Mode 5: Pixel

52 DMX Channels

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	Color wheel	No function: RGBW color mixing	0-5	0-2.0%	0	Snap
		LEE 790 - Moroccan Pink	6-10	2.4-3.9%		
		LEE 157 - Pink	11-15	4.3-5.9%		
		LEE 332 - Special Rose Pink	16-20	6.3-7.8%		
		LEE 328 - Follies Pink	21-25	8.2-9.8%		
		LEE 345 - Fuchsia Pink	26-30	10.2-11.8%		
		LEE 194 - Surprise Pink	31-35	12.2-13.7%		
		LEE 181 - Congo Blue	36-40	14.1-15.7%		
		LEE 071 - Tokyo Blue	41-45	16.1-17.6%		
		LEE 120 - Deep Blue	46-50	18.0-19.6%		
		LEE 079 - Just Blue	51-55	20.0-21.6%		
		LEE 132 - Medium Blue	56-60	22.0-23.5%		
		LEE 200 - Double CT Blue	61-65	23.9-25.5%		
		LEE 161 - Slate Blue	66-70	25.9-27.5%		
		LEE 201 - Full CT Blue	71-75	27.8-29.4%		
		LEE 202 - Half CT Blue	76-80	29.8-31.4%		
		LEE 117 - Steel Blue	81-85	31.8-33.3%		
		LEE 353 - Lighter Blue	86-90	33.7-35.3%		
		LEE 118 - Light Blue	91-95	35.7-37.3%		
		LEE 116 - Medium Blue Green	96-100	37.6-39.2%		
		LEE 124 - Dark Green	101-105	39.6-41.2%		
		LEE 139 - Primary Green	106-110	41.6-43.1%		
		LEE 089 - Moss Green	111-115	43.5-45.1%		
		LEE 122 - Fern Green	116-120	45.5-47.1%		
		LEE 738 - JAS Green	121-125	47.5-49.0%		
		LEE 088 - Lime Green	126-130	49.4-51.0%		
		LEE 100 - Spring Yellow	131-135	51.4-52.9%		
		LEE 104 - Deep Amber	136-140	53.3-54.9%		
		LEE 179 - Chrome Orange	141-145	55.3-56.9%		
		LEE 105 - Orange	146-150	57.3-58.8%		
		LEE 021 - Gold Amber	151-155	59.2-60.8%		
		LEE 778 - Millennium Gold	156-160	61.2-62.7%		
		LEE 135 - Deep Golden Amber	161-165	63.1-64.7%		
		LEE 164 - Flame Red	166-170	65.1-66.7%		
		Color wheel rotation forwards fast-slow	171-185	67.1-72.5%		
		Color wheel stops at current color	186-190	72.9-74.5%		
		Color wheel rotation backwards fast-slow	191-205	74.9-80.4%		
		Color wheel stops at current color	206-210	80.8-82.4%		
		Random colors fast-slow	211-225	82.7-88.2%		
		Tungsten simulation	226-230	88.6-90.2%		
		Warm white - 3200K	231-235	90.6-92.2%		
		Neutral white - 4200K	236-240	92.5-94.1%		
Cool white - 5600K	241-245	94.5-96.1%				
Cool white - 7200K	246-250	96.5-98.0%				
Cool white - 8000K	251-255	98.4-100%				

2	Red	Intensity 0-100%	0-255	0-100%	0	Fade
3	Green	Intensity 0-100%	0-255	0-100%	0	Fade
4	Blue	Intensity 0-100%	0-255	0-100%	0	Fade
5	White	Intensity 0-100%	0-255	0-100%	0	Fade
6	Shutter	Shutter closed	0-15	0-5.9%	0	Snap
		Random strobe	16-47	6.3-18.4%		
		Ramp up slow-fast	48-79	18.8-31.0%		
		Ramp down slow-fast	80-111	31.4-43.5%		
		Ramp up-down slow-fast	112-143	43.9-56.1%		
		Strobe pause 5s – 1s (slow – fast)	144-199	56.5-78.0%		
		Strobe 1Hz – 20 Hz (slow – fast)	200-239	78.4-93.7%		
		Shutter open	240-255	94.1-100%		
7	Dimmer	Master intensity 0-100%	0-255	0-100%	0	Fade
8	CTO	Color temperature cool-warm	0-255	0-100%	0	Fade
9	Pattern selection	No Pattern – all pixels lit	0-5	0-2.0%	0	Snap
		Static Patterns	6-79	2.4-3.1%		
		Single pixel chase	80-83	31.4-32.5%		
		Single pixel chase and return	84-87	32.9-34.1%		
		2-pixel block chase	88-91	34.5-35.7%		
		2-pixel block bounce	92-95	36.1-37.3%		
		4-pixel block chase	96-99	37.6-38.8%		
		4-pixel block bounce	100-103	39.2-40.4%		
		5-pixel block chase	104-107	40.8-42.0%		
		5-pixel block bounce	108-111	42.4-43.5%		
		5 pixels chase	112-115	43.9-45.1%		
		5 pixels bounce	116-119	45.5-46.7%		
		4 pixels chase	120-123	47.1-48.2%		
		4 pixels bounce	124-127	48.6-49.8%		
		2 pixels to center chase	128-131	50.2-51.4%		
		2 pixels to center bounce	132-135	51.8-52.9%		
		3-pixel block chase	136-139	53.3-54.5%		
		3-pixel block bounce	140-143	54.9-56.1%		
		Fill from left	144-147	56.5-57.6%		
		20-pixel block chase	148-151	58.0-59.2%		
		Alternating single pixels chase	152-153	59.6-60.0%		
		Alternating 4-pixel block chase	154-155	60.4-60.8%		
		Random single pixel / inverted	156-157	61.2-61.6%		
		Random 2 pixels / inverted	158-159	62.0-62.4%		
		Random 3 pixels / inverted	160-161	62.7-63.1%		
		Random 4 pixels / inverted	162-163	63.5-63.9%		
Random 5 pixels / inverted	164-165	64.3-64.7%				
Random 6 pixels / inverted	166-167	65.1-65.5%				
Random 7 pixels / inverted	168-169	65.9-66.3%				
Random 8 pixels / inverted	170-171	66.7-67.1%				
Random 9 pixels / inverted	172-173	67.5-67.8%				
No function	174-255	68.2-100%				
10	Pattern speed	Pattern speed slow-fast	0-255	0-100%	0	Fade
11	Pattern fade	Pattern intensity 0-100%	0-255	0-100%	0	Fade

Control / Settings						
12	Control / Settings	No function	0-55	0-21.6%	0	Snap
		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 stand-alone scene*	106-110	41.6-43.1%		
		No Function	111-115	43.5-45.1%		
		Display backlight On*	116-120	45.5-47.1%		
		Display backlight Off*	121-125	47.5-49.0%		
		No Function	126-140	49.4-54.9%		
		DMX Mode: Standard*	141-145	55.3-56.9%		
		DMX Mode: Advanced*	146-150	57.3-58.8%		
		DMX Mode: Pattern*	151-155	59.2-60.8%		
		DMX Mode: Pixel*	156-160	61.2-62.7%		
		DMX Mode: Compressed*	161-165	63.1-64.7%		
		DMX Mode: Pixel Dim*	166-170	65.1-66.7%		
		No function	171-180	67.1-70.6%		
		Fixture reset	181-185	71.0-72.5%		
		Factory default settings (except DMX address)*	186-190	72.9-74.5%		
		No function	191-230	74.9-90.2%		
		Boot Mode Auto*	231-235	90.6-92.2%		
		Boot Mode DMX*	236-240	92.5-94.1%		
		Boot Mode Play Stand-alone *	241-245	94.5-96.1%		
		Boot Mode Static*	246-250	96.5-98.0%		
No function	251-252	98.4-100%				
Individual pixel RGBW						
13	Pixel 1 red	Intensity 0-100%	0-255	0-100%	0	Fade
14	Pixel 1 green	Intensity 0-100%	0-255	0-100%	0	Fade
15	Pixel 1 blue	Intensity 0-100%	0-255	0-100%	0	Fade
16	Pixel 1 white	Intensity 0-100%	0-255	0-100%	0	Fade
17	Pixel 2 red	Intensity 0-100%	0-255	0-100%	0	Fade
18	Pixel 2 green	Intensity 0-100%	0-255	0-100%	0	Fade
19	Pixel 2 blue	Intensity 0-100%	0-255	0-100%	0	Fade
20	Pixel 2 white	Intensity 0-100%	0-255	0-100%	0	Fade
21	Pixel 3 red	Intensity 0-100%	0-255	0-100%	0	Fade
22	Pixel 3 green	Intensity 0-100%	0-255	0-100%	0	Fade
23	Pixel 3 blue	Intensity 0-100%	0-255	0-100%	0	Fade
24	Pixel 3 white	Intensity 0-100%	0-255	0-100%	0	Fade
25	Pixel 4 red	Intensity 0-100%	0-255	0-100%	0	Fade
26	Pixel 4 green	Intensity 0-100%	0-255	0-100%	0	Fade
27	Pixel 4 blue	Intensity 0-100%	0-255	0-100%	0	Fade
28	Pixel 4 white	Intensity 0-100%	0-255	0-100%	0	Fade
29	Pixel 5 red	Intensity 0-100%	0-255	0-100%	0	Fade
30	Pixel 5 green	Intensity 0-100%	0-255	0-100%	0	Fade
31	Pixel 5 blue	Intensity 0-100%	0-255	0-100%	0	Fade
32	Pixel 5 white	Intensity 0-100%	0-255	0-100%	0	Fade

33	Pixel 6 red	Intensity 0-100%	0-255	0-100%	0	Fade
34	Pixel 6 green	Intensity 0-100%	0-255	0-100%	0	Fade
35	Pixel 6 blue	Intensity 0-100%	0-255	0-100%	0	Fade
36	Pixel 6 white	Intensity 0-100%	0-255	0-100%	0	Fade
37	Pixel 7 red	Intensity 0-100%	0-255	0-100%	0	Fade
38	Pixel 7 green	Intensity 0-100%	0-255	0-100%	0	Fade
39	Pixel 7 blue	Intensity 0-100%	0-255	0-100%	0	Fade
40	Pixel 7 white	Intensity 0-100%	0-255	0-100%	0	Fade
41	Pixel 8 red	Intensity 0-100%	0-255	0-100%	0	Fade
42	Pixel 8 green	Intensity 0-100%	0-255	0-100%	0	Fade
43	Pixel 8 blue	Intensity 0-100%	0-255	0-100%	0	Fade
44	Pixel 8 white	Intensity 0-100%	0-255	0-100%	0	Fade
45	Pixel 9 red	Intensity 0-100%	0-255	0-100%	0	Fade
46	Pixel 9 green	Intensity 0-100%	0-255	0-100%	0	Fade
47	Pixel 9 blue	Intensity 0-100%	0-255	0-100%	0	Fade
48	Pixel 9 white	Intensity 0-100%	0-255	0-100%	0	Fade
49	Pixel 10 red	Intensity 0-100%	0-255	0-100%	0	Fade
50	Pixel 10 green	Intensity 0-100%	0-255	0-100%	0	Fade
51	Pixel 10 blue	Intensity 0-100%	0-255	0-100%	0	Fade
52	Pixel 10 white	Intensity 0-100%	0-255	0-100%	0	Fade

DMX Mode 6: Compressed pixel

40 DMX Channels

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	Pixel 1 red	Intensity 0-100%	0-255	0-100%	0	Fade
2	Pixel 1 green	Intensity 0-100%	0-255	0-100%	0	Fade
3	Pixel 1 blue	Intensity 0-100%	0-255	0-100%	0	Fade
4	Pixel 1 white	Intensity 0-100%	0-255	0-100%	0	Fade
5	Pixel 2 red	Intensity 0-100%	0-255	0-100%	0	Fade
6	Pixel 2 green	Intensity 0-100%	0-255	0-100%	0	Fade
7	Pixel 2 blue	Intensity 0-100%	0-255	0-100%	0	Fade
8	Pixel 2 white	Intensity 0-100%	0-255	0-100%	0	Fade
9	Pixel 3 red	Intensity 0-100%	0-255	0-100%	0	Fade
10	Pixel 3 green	Intensity 0-100%	0-255	0-100%	0	Fade
11	Pixel 3 blue	Intensity 0-100%	0-255	0-100%	0	Fade
12	Pixel 3 white	Intensity 0-100%	0-255	0-100%	0	Fade
13	Pixel 4 red	Intensity 0-100%	0-255	0-100%	0	Fade
14	Pixel 4 green	Intensity 0-100%	0-255	0-100%	0	Fade
15	Pixel 4 blue	Intensity 0-100%	0-255	0-100%	0	Fade
16	Pixel 4 white	Intensity 0-100%	0-255	0-100%	0	Fade
17	Pixel 5 red	Intensity 0-100%	0-255	0-100%	0	Fade
18	Pixel 5 green	Intensity 0-100%	0-255	0-100%	0	Fade
19	Pixel 5 blue	Intensity 0-100%	0-255	0-100%	0	Fade
20	Pixel 5 white	Intensity 0-100%	0-255	0-100%	0	Fade
21	Pixel 6 red	Intensity 0-100%	0-255	0-100%	0	Fade
22	Pixel 6 green	Intensity 0-100%	0-255	0-100%	0	Fade
23	Pixel 6 blue	Intensity 0-100%	0-255	0-100%	0	Fade
24	Pixel 6 white	Intensity 0-100%	0-255	0-100%	0	Fade
25	Pixel 7 red	Intensity 0-100%	0-255	0-100%	0	Fade
26	Pixel 7 green	Intensity 0-100%	0-255	0-100%	0	Fade
27	Pixel 7 blue	Intensity 0-100%	0-255	0-100%	0	Fade
28	Pixel 7 white	Intensity 0-100%	0-255	0-100%	0	Fade
29	Pixel 8 red	Intensity 0-100%	0-255	0-100%	0	Fade
30	Pixel 8 green	Intensity 0-100%	0-255	0-100%	0	Fade
31	Pixel 8 blue	Intensity 0-100%	0-255	0-100%	0	Fade
32	Pixel 8 white	Intensity 0-100%	0-255	0-100%	0	Fade
33	Pixel 9 red	Intensity 0-100%	0-255	0-100%	0	Fade
34	Pixel 9 green	Intensity 0-100%	0-255	0-100%	0	Fade
35	Pixel 9 blue	Intensity 0-100%	0-255	0-100%	0	Fade
36	Pixel 9 white	Intensity 0-100%	0-255	0-100%	0	Fade
37	Pixel 10 red	Intensity 0-100%	0-255	0-100%	0	Fade
38	Pixel 10 green	Intensity 0-100%	0-255	0-100%	0	Fade
39	Pixel 10 blue	Intensity 0-100%	0-255	0-100%	0	Fade
40	Pixel 10 white	Intensity 0-100%	0-255	0-100%	0	Fade

DMX Mode 7: Pixel Dimming**22 DMX Channels**

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	Color wheel	No function: RGBW color mixing	0-5	0-2.0%	0	Snap
		LEE 790 - Moroccan Pink	6-10	2.4-3.9%		
		LEE 157 - Pink	11-15	4.3-5.9%		
		LEE 332 - Special Rose Pink	16-20	6.3-7.8%		
		LEE 328 - Follies Pink	21-25	8.2-9.8%		
		LEE 345 - Fuchsia Pink	26-30	10.2-11.8%		
		LEE 194 - Surprise Pink	31-35	12.2-13.7%		
		LEE 181 - Congo Blue	36-40	14.1-15.7%		
		LEE 071 - Tokyo Blue	41-45	16.1-17.6%		
		LEE 120 - Deep Blue	46-50	18.0-19.6%		
		LEE 079 - Just Blue	51-55	20.0-21.6%		
		LEE 132 - Medium Blue	56-60	22.0-23.5%		
		LEE 200 - Double CT Blue	61-65	23.9-25.5%		
		LEE 161 - Slate Blue	66-70	25.9-27.5%		
		LEE 201 - Full CT Blue	71-75	27.8-29.4%		
		LEE 202 - Half CT Blue	76-80	29.8-31.4%		
		LEE 117 - Steel Blue	81-85	31.8-33.3%		
		LEE 353 - Lighter Blue	86-90	33.7-35.3%		
		LEE 118 - Light Blue	91-95	35.7-37.3%		
		LEE 116 - Medium Blue Green	96-100	37.6-39.2%		
		LEE 124 - Dark Green	101-105	39.6-41.2%		
		LEE 139 - Primary Green	106-110	41.6-43.1%		
		LEE 089 - Moss Green	111-115	43.5-45.1%		
		LEE 122 - Fern Green	116-120	45.5-47.1%		
		LEE 738 - JAS Green	121-125	47.5-49.0%		
		LEE 088 - Lime Green	126-130	49.4-51.0%		
		LEE 100 - Spring Yellow	131-135	51.4-52.9%		
		LEE 104 - Deep Amber	136-140	53.3-54.9%		
		LEE 179 - Chrome Orange	141-145	55.3-56.9%		
		LEE 105 - Orange	146-150	57.3-58.8%		
		LEE 021 - Gold Amber	151-155	59.2-60.8%		
		LEE 778 - Millennium Gold	156-160	61.2-62.7%		
		LEE 135 - Deep Golden Amber	161-165	63.1-64.7%		
		LEE 164 - Flame Red	166-170	65.1-66.7%		
Color wheel rotation forwards fast-slow	171-185	67.1-72.5%				
Color wheel stops at current color	186-190	72.9-74.5%				
Color wheel rotation backwards fast-slow	191-205	74.9-80.4%				
Color wheel stops at current color	206-210	80.8-82.4%				
Random colors fast-slow	211-225	82.7-88.2%				
Tungsten simulation	226-230	88.6-90.2%				
Warm white - 3200K	231-235	90.6-92.2%				
Neutral white - 4200K	236-240	92.5-94.1%				
Cool white - 5600K	241-245	94.5-96.1%				
Cool white - 7200K	246-250	96.5-98.0%				
Cool white - 8000K	251-255	98.4-100%				

2	Red	Intensity 0-100%	0-255	0-100%	0	Fade
3	Green	Intensity 0-100%	0-255	0-100%	0	Fade
4	Blue	Intensity 0-100%	0-255	0-100%	0	Fade
5	White	Intensity 0-100%	0-255	0-100%	0	Fade
6	Shutter	Shutter closed	0-15	0-5.9%	0	Snap
		Random strobe	16-47	6.3-18.4%		
		Ramp up slow-fast	48-79	18.8-31.0%		
		Ramp down slow-fast	80-111	31.4-43.5%		
		Ramp up-down slow-fast	112-143	43.9-56.1%		
		Strobe pause 5s – 1s (slow – fast)	144-199	56.5-78.0%		
		Strobe 1Hz – 20 Hz (slow – fast)	200-239	78.4-93.7%		
		Shutter open	240-255	94.1-100%		
7	Dimmer	Master intensity 0-100%	0-255	0-100%	0	Fade
8	CTO	Color temperature cool-warm	0-255	0-100%	0	Fade
9	Pattern selection	No Pattern – all pixels lit	0-5	0-2.0%	0	Snap
		Static Patterns	6-79	2.4-3.1%		
		Single pixel chase	80-83	31.4-32.5%		
		Single pixel chase and return	84-87	32.9-34.1%		
		2-pixel block chase	88-91	34.5-35.7%		
		2-pixel block bounce	92-95	36.1-37.3%		
		4-pixel block chase	96-99	37.6-38.8%		
		4-pixel block bounce	100-103	39.2-40.4%		
		5-pixel block chase	104-107	40.8-42.0%		
		5-pixel block bounce	108-111	42.4-43.5%		
		5 pixels chase	112-115	43.9-45.1%		
		5 pixels bounce	116-119	45.5-46.7%		
		4 pixels chase	120-123	47.1-48.2%		
		4 pixels bounce	124-127	48.6-49.8%		
		2 pixels to center chase	128-131	50.2-51.4%		
		2 pixels to center bounce	132-135	51.8-52.9%		
		3-pixel block chase	136-139	53.3-54.5%		
		3-pixel block bounce	140-143	54.9-56.1%		
		Fill from left	144-147	56.5-57.6%		
		20-pixel block chase	148-151	58.0-59.2%		
		Alternating single pixels chase	152-153	59.6-60.0%		
		Alternating 4-pixel block chase	154-155	60.4-60.8%		
		Random single pixel / inverted	156-157	61.2-61.6%		
		Random 2 pixels / inverted	158-159	62.0-62.4%		
		Random 3 pixels / inverted	160-161	62.7-63.1%		
		Random 4 pixels / inverted	162-163	63.5-63.9%		
Random 5 pixels / inverted	164-165	64.3-64.7%				
Random 6 pixels / inverted	166-167	65.1-65.5%				
Random 7 pixels / inverted	168-169	65.9-66.3%				
Random 8 pixels / inverted	170-171	66.7-67.1%				
Random 9 pixels / inverted	172-173	67.5-67.8%				
No function	174-255	68.2-100%				
10	Pattern speed	Pattern speed slow-fast	0-255	0-100%	0	Fade
11	Pattern fade	Pattern intensity 0-100%	0-255	0-100%	0	Fade

Control / Settings						
12	Control / Settings	No function	0-55	0-21.6%	0	Snap
		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 stand-alone scene*	106-110	41.6-43.1%		
		No Function	111-115	43.5-45.1%		
		Display backlight On*	116-120	45.5-47.1%		
		Display backlight Off*	121-125	47.5-49.0%		
		No Function	126-140	49.4-54.9%		
		DMX Mode: Standard*	141-145	55.3-56.9%		
		DMX Mode: Advanced*	146-150	57.3-58.8%		
		DMX Mode: Pattern*	151-155	59.2-60.8%		
		DMX Mode: Pixel*	156-160	61.2-62.7%		
		DMX Mode: Compressed*	161-165	63.1-64.7%		
		DMX Mode: Pixel Dim*	166-170	65.1-66.7%		
		No function	171-180	67.1-70.6%		
		Fixture reset	181-185	71.0-72.5%		
		Factory default settings (except DMX address)*	186-190	72.9-74.5%		
		No function	191-230	74.9-90.2%		
		Boot Mode Auto*	231-235	90.6-92.2%		
		Boot Mode DMX*	236-240	92.5-94.1%		
Boot Mode Play Stand-alone*	241-245	94.5-96.1%				
Boot Mode Static*	246-250	96.5-98.0%				
No function	251-252	98.4-100%				
Individual pixel dimming						
13	Pixel 1	Intensity 0-100%	0-255	0-100%	0	Fade
14	Pixel 2	Intensity 0-100%	0-255	0-100%	0	Fade
15	Pixel 3	Intensity 0-100%	0-255	0-100%	0	Fade
16	Pixel 4	Intensity 0-100%	0-255	0-100%	0	Fade
17	Pixel 5	Intensity 0-100%	0-255	0-100%	0	Fade
18	Pixel 6	Intensity 0-100%	0-255	0-100%	0	Fade
19	Pixel 7	Intensity 0-100%	0-255	0-100%	0	Fade
20	Pixel 8	Intensity 0-100%	0-255	0-100%	0	Fade
21	Pixel 9	Intensity 0-100%	0-255	0-100%	0	Fade
22	Pixel 10	Intensity 0-100%	0-255	0-100%	0	Fade

DMX Mode 8: Patterns

27 DMX Channels

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	Color wheel	No function: RGBW color mixing	0-5	0-2.0%	0	Snap
		LEE 790 - Moroccan Pink	6-10	2.4-3.9%		
		LEE 157 - Pink	11-15	4.3-5.9%		
		LEE 332 - Special Rose Pink	16-20	6.3-7.8%		
		LEE 328 - Follies Pink	21-25	8.2-9.8%		
		LEE 345 - Fuchsia Pink	26-30	10.2-11.8%		
		LEE 194 - Surprise Pink	31-35	12.2-13.7%		
		LEE 181 - Congo Blue	36-40	14.1-15.7%		
		LEE 071 - Tokyo Blue	41-45	16.1-17.6%		
		LEE 120 - Deep Blue	46-50	18.0-19.6%		
		LEE 079 - Just Blue	51-55	20.0-21.6%		
		LEE 132 - Medium Blue	56-60	22.0-23.5%		
		LEE 200 - Double CT Blue	61-65	23.9-25.5%		
		LEE 161 - Slate Blue	66-70	25.9-27.5%		
		LEE 201 - Full CT Blue	71-75	27.8-29.4%		
		LEE 202 - Half CT Blue	76-80	29.8-31.4%		
		LEE 117 - Steel Blue	81-85	31.8-33.3%		
		LEE 353 - Lighter Blue	86-90	33.7-35.3%		
		LEE 118 - Light Blue	91-95	35.7-37.3%		
		LEE 116 - Medium Blue Green	96-100	37.6-39.2%		
		LEE 124 - Dark Green	101-105	39.6-41.2%		
		LEE 139 - Primary Green	106-110	41.6-43.1%		
		LEE 089 - Moss Green	111-115	43.5-45.1%		
		LEE 122 - Fern Green	116-120	45.5-47.1%		
		LEE 738 - JAS Green	121-125	47.5-49.0%		
		LEE 088 - Lime Green	126-130	49.4-51.0%		
		LEE 100 - Spring Yellow	131-135	51.4-52.9%		
		LEE 104 - Deep Amber	136-140	53.3-54.9%		
		LEE 179 - Chrome Orange	141-145	55.3-56.9%		
		LEE 105 - Orange	146-150	57.3-58.8%		
		LEE 021 - Gold Amber	151-155	59.2-60.8%		
		LEE 778 - Millennium Gold	156-160	61.2-62.7%		
		LEE 135 - Deep Golden Amber	161-165	63.1-64.7%		
		LEE 164 - Flame Red	166-170	65.1-66.7%		
		Color wheel rotation forwards fast-slow	171-185	67.1-72.5%		
		Color wheel stops at current color	186-190	72.9-74.5%		
		Color wheel rotation backwards fast-slow	191-205	74.9-80.4%		
		Color wheel stops at current color	206-210	80.8-82.4%		
		Random colors fast-slow	211-225	82.7-88.2%		
		Tungsten simulation	226-230	88.6-90.2%		
Warm white - 3200K	231-235	90.6-92.2%				
Neutral white - 4200K	236-240	92.5-94.1%				
Cool white - 5600K	241-245	94.5-96.1%				
Cool white - 7200K	246-250	96.5-98.0%				
Cool white - 8000K	251-255	98.4-100%				

2	Red	Intensity 0-100%	0-255	0-100%	0	Fade
3	Green	Intensity 0-100%	0-255	0-100%	0	Fade
4	Blue	Intensity 0-100%	0-255	0-100%	0	Fade
5	White	Intensity 0-100%	0-255	0-100%	0	Fade
6	Shutter	Shutter closed	0-15	0-5.9%	0	Snap
		Random strobe	16-47	6.3-18.4%		
		Ramp up slow-fast	48-79	18.8-31.0%		
		Ramp down slow-fast	80-111	31.4-43.5%		
		Ramp up-down slow-fast	112-143	43.9-56.1%		
		Strobe pause 5s – 1s (slow – fast)	144-199	56.5-78.0%		
		Strobe 1Hz – 20 Hz (slow – fast)	200-239	78.4-93.7%		
	Shutter open	240-255	94.1-100%			
7	Dimmer	Master intensity 0-100%	0-255	0-100%	0	Fade
8	CTO	Color temperature cool-warm	0-255	0-100%	0	Fade
Patterns						
9	Pattern 1 selection	No Pattern – all pixels lit	0-5	0-2.0%	0	Snap
		Static Patterns	6-79	2.4-3.1%		
		Single pixel chase	80-83	31.4-32.5%		
		Single pixel chase and return	84-87	32.9-34.1%		
		2-pixel block chase	88-91	34.5-35.7%		
		2-pixel block bounce	92-95	36.1-37.3%		
		4-pixel block chase	96-99	37.6-38.8%		
		4-pixel block bounce	100-103	39.2-40.4%		
		5-pixel block chase	104-107	40.8-42.0%		
		5-pixel block bounce	108-111	42.4-43.5%		
		5 pixels chase	112-115	43.9-45.1%		
		5 pixels bounce	116-119	45.5-46.7%		
		4 pixels chase	120-123	47.1-48.2%		
		4 pixels bounce	124-127	48.6-49.8%		
		2 pixels to center chase	128-131	50.2-51.4%		
		2 pixels to center bounce	132-135	51.8-52.9%		
		3-pixel block chase	136-139	53.3-54.5%		
		3-pixel block bounce	140-143	54.9-56.1%		
		Fill from left	144-147	56.5-57.6%		
		20-pixel block chase	148-151	58.0-59.2%		
		Alternating single pixels chase	152-153	59.6-60.0%		
		Alternating 4-pixel block chase	154-155	60.4-60.8%		
		Random single pixel / inverted	156-157	61.2-61.6%		
		Random 2 pixels / inverted	158-159	62.0-62.4%		
		Random 3 pixels / inverted	160-161	62.7-63.1%		
		Random 4 pixels / inverted	162-163	63.5-63.9%		
		Random 5 pixels / inverted	164-165	64.3-64.7%		
Random 6 pixels / inverted	166-167	65.1-65.5%				
Random 7 pixels / inverted	168-169	65.9-66.3%				
Random 8 pixels / inverted	170-171	66.7-67.1%				
Random 9 pixels / inverted	172-173	67.5-67.8%				
	No function	174-255	68.2-100%			
10	Pattern 1 speed	Pattern 1 speed slow-fast	0-255	0-100%	0	Fade
11	Pattern 1 fade	Pattern 1 intensity 0-100%	0-255	0-100%	0	Fade
12	Pattern 1 red	Intensity 0-100%	0-255	0-100%	0	Fade
13	Pattern 1 green	Intensity 0-100%	0-255	0-100%	0	Fade
14	Pattern 1 blue	Intensity 0-100%	0-255	0-100%	0	Fade
15	Pattern 1 white	Intensity 0-100%	0-255	0-100%	0	Fade
16	Pattern 1 shutter	Shutter closed	0-15	0-5.9%	0	Snap
		Random strobe	16-47	6.3-18.4%		
		Ramp up slow-fast	48-79	18.8-31.0%		
		Ramp down slow-fast	80-111	31.4-43.5%		

		Ramp up-down slow-fast	112-143	43.9-56.1%		
		Strobe pause 5s – 1s (slow – fast)	144-199	56.5-78.0%		
		Strobe 1Hz – 20 Hz (slow – fast)	200-239	78.4-93.7%		
		Shutter open	240-255	94.1-100%		
17	Pattern 1 dimmer	Pattern 1 intensity 0-100%	0-255	0-100%	0	Fade
		No Pattern – all pixels lit	0-5	0-2.0%		
		Static Patterns	6-79	2.4-3.1%		
		Single pixel chase	80-83	31.4-32.5%		
		Single pixel chase and return	84-87	32.9-34.1%		
		2-pixel block chase	88-91	34.5-35.7%		
		2-pixel block bounce	92-95	36.1-37.3%		
		4-pixel block chase	96-99	37.6-38.8%		
		4-pixel block bounce	100-103	39.2-40.4%		
		5-pixel block chase	104-107	40.8-42.0%		
		5-pixel block bounce	108-111	42.4-43.5%		
		5 pixels chase	112-115	43.9-45.1%		
		5 pixels bounce	116-119	45.5-46.7%		
		4 pixels chase	120-123	47.1-48.2%		
		4 pixels bounce	124-127	48.6-49.8%		
		2 pixels to center chase	128-131	50.2-51.4%		
		2 pixels to center bounce	132-135	51.8-52.9%		
		3-pixel block chase	136-139	53.3-54.5%		
		3-pixel block bounce	140-143	54.9-56.1%		
		Fill from left	144-147	56.5-57.6%		
		20-pixel block chase	148-151	58.0-59.2%		
		Alternating single pixels chase	152-153	59.6-60.0%		
		Alternating 4-pixel block chase	154-155	60.4-60.8%		
		Random single pixel / inverted	156-157	61.2-61.6%		
		Random 2 pixels / inverted	158-159	62.0-62.4%		
		Random 3 pixels / inverted	160-161	62.7-63.1%		
		Random 4 pixels / inverted	162-163	63.5-63.9%		
		Random 5 pixels / inverted	164-165	64.3-64.7%		
		Random 6 pixels / inverted	166-167	65.1-65.5%		
		Random 7 pixels / inverted	168-169	65.9-66.3%		
		Random 8 pixels / inverted	170-171	66.7-67.1%		
		Random 9 pixels / inverted	172-173	67.5-67.8%		
		No function	174-255	68.2-100%		
18	Pattern 2 selection				0	Snap
19	Pattern 2 speed	Pattern 1 speed slow-fast	0-255	0-100%	0	Fade
20	Pattern 2 fade	Pattern 1 intensity 0-100%	0-255	0-100%	0	Fade
21	Pattern 2 red	Intensity 0-100%	0-255	0-100%	0	Fade
22	Pattern 2 green	Intensity 0-100%	0-255	0-100%	0	Fade
23	Pattern 2 blue	Intensity 0-100%	0-255	0-100%	0	Fade
24	Pattern 2 white	Intensity 0-100%	0-255	0-100%	0	Fade
		Shutter closed	0-15	0-5.9%		
		Random strobe	16-47	6.3-18.4%		
		Ramp up slow-fast	48-79	18.8-31.0%		
		Ramp down slow-fast	80-111	31.4-43.5%		
		Ramp up-down slow-fast	112-143	43.9-56.1%		
		Strobe pause 5s – 1s (slow – fast)	144-199	56.5-78.0%		
		Strobe 1Hz – 20 Hz (slow – fast)	200-239	78.4-93.7%		
		Shutter open	240-255	94.1-100%		
25	Pattern 2 shutter				0	Snap
26	Pattern 2 dimmer	Pattern 1 intensity 0-100%	0-255	0-100%	0	Fade

Control / Settings						
27	Control / Settings	No function	0-55	0-21.6%	0	Snap
		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 stand-alone scene*	106-110	41.6-43.1%		
		No Function	111-115	43.5-45.1%		
		Display backlight On*	116-120	45.5-47.1%		
		Display backlight Off*	121-125	47.5-49.0%		
		No Function	126-140	49.4-54.9%		
		DMX Mode: Standard*	141-145	55.3-56.9%		
		DMX Mode: Advanced*	146-150	57.3-58.8%		
		DMX Mode: Pattern*	151-155	59.2-60.8%		
		DMX Mode: Pixel*	156-160	61.2-62.7%		
		DMX Mode: Compressed*	161-165	63.1-64.7%		
		DMX Mode: Pixel Dim*	166-170	65.1-66.7%		
		No function	171-180	67.1-70.6%		
		Fixture reset	181-185	71.0-72.5%		
		Factory default settings (except DMX address)*	186-190	72.9-74.5%		
		No function	191-230	74.9-90.2%		
		Boot Mode Auto*	231-235	90.6-92.2%		
Boot Mode DMX*	236-240	92.5-94.1%				
Boot Mode Play Stand-alone*	241-245	94.5-96.1%				
Boot Mode Static*	246-250	96.5-98.0%				
No function	251-252	98.4-100%				

DMX Mode 9: Rocket

61 DMX Channels

Channel	Command	DMX range	Percent	Default DMX	Fade	
1	Pixel 1 red	Intensity 0-100%	0-255	0-100%	0	Fade
2	Pixel 1 green	Intensity 0-100%	0-255	0-100%	0	Fade
3	Pixel 1 blue	Intensity 0-100%	0-255	0-100%	0	Fade
4	Pixel 1 white	Intensity 0-100%	0-255	0-100%	0	Fade
5	Pixel 2 red	Intensity 0-100%	0-255	0-100%	0	Fade
6	Pixel 2 green	Intensity 0-100%	0-255	0-100%	0	Fade
7	Pixel 2 blue	Intensity 0-100%	0-255	0-100%	0	Fade
8	Pixel 2 white	Intensity 0-100%	0-255	0-100%	0	Fade
9	Pixel 3 red	Intensity 0-100%	0-255	0-100%	0	Fade
10	Pixel 3 green	Intensity 0-100%	0-255	0-100%	0	Fade
11	Pixel 3 blue	Intensity 0-100%	0-255	0-100%	0	Fade
12	Pixel 3 white	Intensity 0-100%	0-255	0-100%	0	Fade
13	Pixel 4 red	Intensity 0-100%	0-255	0-100%	0	Fade
14	Pixel 4 green	Intensity 0-100%	0-255	0-100%	0	Fade
15	Pixel 4 blue	Intensity 0-100%	0-255	0-100%	0	Fade
16	Pixel 4 white	Intensity 0-100%	0-255	0-100%	0	Fade
17	Pixel 5 red	Intensity 0-100%	0-255	0-100%	0	Fade
18	Pixel 5 green	Intensity 0-100%	0-255	0-100%	0	Fade
19	Pixel 5 blue	Intensity 0-100%	0-255	0-100%	0	Fade
20	Pixel 5 white	Intensity 0-100%	0-255	0-100%	0	Fade
21	Pixel 6 red	Intensity 0-100%	0-255	0-100%	0	Fade
22	Pixel 6 green	Intensity 0-100%	0-255	0-100%	0	Fade
23	Pixel 6 blue	Intensity 0-100%	0-255	0-100%	0	Fade
24	Pixel 6 white	Intensity 0-100%	0-255	0-100%	0	Fade
25	Pixel 7 red	Intensity 0-100%	0-255	0-100%	0	Fade
26	Pixel 7 green	Intensity 0-100%	0-255	0-100%	0	Fade
27	Pixel 7 blue	Intensity 0-100%	0-255	0-100%	0	Fade
28	Pixel 7 white	Intensity 0-100%	0-255	0-100%	0	Fade
29	Pixel 8 red	Intensity 0-100%	0-255	0-100%	0	Fade
30	Pixel 8 green	Intensity 0-100%	0-255	0-100%	0	Fade
31	Pixel 8 blue	Intensity 0-100%	0-255	0-100%	0	Fade
32	Pixel 8 white	Intensity 0-100%	0-255	0-100%	0	Fade
33	Pixel 9 red	Intensity 0-100%	0-255	0-100%	0	Fade
34	Pixel 9 green	Intensity 0-100%	0-255	0-100%	0	Fade
35	Pixel 9 blue	Intensity 0-100%	0-255	0-100%	0	Fade
36	Pixel 9 white	Intensity 0-100%	0-255	0-100%	0	Fade
37	Pixel 10 red	Intensity 0-100%	0-255	0-100%	0	Fade
38	Pixel 10 green	Intensity 0-100%	0-255	0-100%	0	Fade
39	Pixel 10 blue	Intensity 0-100%	0-255	0-100%	0	Fade
40	Pixel 10 white	Intensity 0-100%	0-255	0-100%	0	Fade
41	Shutter (master)	Shutter closed	0-15	0-5.9%	0	Snap
		Random strobe	16-47	6.3-18.4%		
		Ramp up slow-fast	48-79	18.8-31.0%		
		Ramp down slow-fast	80-111	31.4-43.5%		
		Ramp up-down slow-fast	112-143	43.9-56.1%		
		Strobe pause 5s – 1s (slow – fast)	144-199	56.5-78.0%		
		Strobe 1Hz – 20 Hz (slow – fast)	200-239	78.4-93.7%		
		Shutter open	240-255	94.1-100%		
42	Dimmer (master)	Master intensity 0-100%	0-255	0-100%	0	Fade

Control / Settings						
43	Control / Settings	No function	0-55	0-21.6%	0	Snap
		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 stand-alone scene*	106-110	41.6-43.1%		
		No Function	111-115	43.5-45.1%		
		Display backlight On*	116-120	45.5-47.1%		
		Display backlight Off*	121-125	47.5-49.0%		
		No Function	126-140	49.4-54.9%		
		DMX Mode: Standard*	141-145	55.3-56.9%		
		DMX Mode: Advanced*	146-150	57.3-58.8%		
		DMX Mode: Pattern*	151-155	59.2-60.8%		
		DMX Mode: Pixel*	156-160	61.2-62.7%		
		DMX Mode: Compressed*	161-165	63.1-64.7%		
		DMX Mode: Pixel Dim*	166-170	65.1-66.7%		
		No function	171-180	67.1-70.6%		
		Fixture reset	181-185	71.0-72.5%		
		Factory default settings (except DMX address)*	186-190	72.9-74.5%		
		No function	191-230	74.9-90.2%		
		Boot Mode Auto*	231-235	90.6-92.2%		
		Boot Mode DMX*	236-240	92.5-94.1%		
Boot Mode Play Stand-alone*	241-245	94.5-96.1%				
Boot Mode Static*	246-250	96.5-98.0%				
No function	251-252	98.4-100%				
Patterns						
44	Pattern 1 selection	No Pattern – all pixels lit	0-5	0-2.0%	0	Snap
		Static Patterns	6-79	2.4-3.1%		
		Single pixel chase	80-83	31.4-32.5%		
		Single pixel chase and return	84-87	32.9-34.1%		
		2-pixel block chase	88-91	34.5-35.7%		
		2-pixel block bounce	92-95	36.1-37.3%		
		4-pixel block chase	96-99	37.6-38.8%		
		4-pixel block bounce	100-103	39.2-40.4%		
		5-pixel block chase	104-107	40.8-42.0%		
		5-pixel block bounce	108-111	42.4-43.5%		
		5 pixels chase	112-115	43.9-45.1%		
		5 pixels bounce	116-119	45.5-46.7%		
		4 pixels chase	120-123	47.1-48.2%		
		4 pixels bounce	124-127	48.6-49.8%		
		2 pixels to center chase	128-131	50.2-51.4%		
		2 pixels to center bounce	132-135	51.8-52.9%		
		3-pixel block chase	136-139	53.3-54.5%		
		3-pixel block bounce	140-143	54.9-56.1%		
		Fill from left	144-147	56.5-57.6%		
		20-pixel block chase	148-151	58.0-59.2%		
		Alternating single pixels chase	152-153	59.6-60.0%		
		Alternating 4-pixel block chase	154-155	60.4-60.8%		
		Random single pixel / inverted	156-157	61.2-61.6%		

		Random 2 pixels / inverted	158-159	62.0-62.4%		
		Random 3 pixels / inverted	160-161	62.7-63.1%		
		Random 4 pixels / inverted	162-163	63.5-63.9%		
		Random 5 pixels / inverted	164-165	64.3-64.7%		
		Random 6 pixels / inverted	166-167	65.1-65.5%		
		Random 7 pixels / inverted	168-169	65.9-66.3%		
		Random 8 pixels / inverted	170-171	66.7-67.1%		
		Random 9 pixels / inverted	172-173	67.5-67.8%		
		No function	174-255	68.2-100%		
45	Pattern 1 speed	Pattern 1 speed slow-fast	0-255	0-100%	0	Fade
46	Pattern 1 fade	Pattern 1 intensity 0-100%	0-255	0-100%	0	Fade
47	Pattern 1 red	Intensity 0-100%	0-255	0-100%	0	Fade
48	Pattern 1 green	Intensity 0-100%	0-255	0-100%	0	Fade
49	Pattern 1 blue	Intensity 0-100%	0-255	0-100%	0	Fade
50	Pattern 1 white	Intensity 0-100%	0-255	0-100%	0	Fade
51	Pattern 1 shutter	Shutter closed	0-15	0-5.9%	0	Snap
		Random strobe	16-47	6.3-18.4%		
		Ramp up slow-fast	48-79	18.8-31.0%		
		Ramp down slow-fast	80-111	31.4-43.5%		
		Ramp up-down slow-fast	112-143	43.9-56.1%		
		Strobe pause 5s – 1s (slow – fast)	144-199	56.5-78.0%		
		Strobe 1Hz – 20 Hz (slow – fast)	200-239	78.4-93.7%		
		Shutter open	240-255	94.1-100%		
52	Pattern 1 dimmer	Pattern 1 intensity 0-100%	0-255	0-100%	0	Fade
53	Pattern 2 selection	No Pattern – all pixels lit	0-5	0-2.0%	0	Snap
		Static Patterns	6-79	2.4-3.1%		
		Single pixel chase	80-83	31.4-32.5%		
		Single pixel chase and return	84-87	32.9-34.1%		
		2-pixel block chase	88-91	34.5-35.7%		
		2-pixel block bounce	92-95	36.1-37.3%		
		4-pixel block chase	96-99	37.6-38.8%		
		4-pixel block bounce	100-103	39.2-40.4%		
		5-pixel block chase	104-107	40.8-42.0%		
		5-pixel block bounce	108-111	42.4-43.5%		
		5 pixels chase	112-115	43.9-45.1%		
		5 pixels bounce	116-119	45.5-46.7%		
		4 pixels chase	120-123	47.1-48.2%		
		4 pixels bounce	124-127	48.6-49.8%		
		2 pixels to center chase	128-131	50.2-51.4%		
		2 pixels to center bounce	132-135	51.8-52.9%		
		3-pixel block chase	136-139	53.3-54.5%		
		3-pixel block bounce	140-143	54.9-56.1%		
		Fill from left	144-147	56.5-57.6%		
		20-pixel block chase	148-151	58.0-59.2%		
		Alternating single pixels chase	152-153	59.6-60.0%		
		Alternating 4-pixel block chase	154-155	60.4-60.8%		
		Random single pixel / inverted	156-157	61.2-61.6%		
		Random 2 pixels / inverted	158-159	62.0-62.4%		
		Random 3 pixels / inverted	160-161	62.7-63.1%		
		Random 4 pixels / inverted	162-163	63.5-63.9%		
		Random 5 pixels / inverted	164-165	64.3-64.7%		
Random 6 pixels / inverted	166-167	65.1-65.5%				
Random 7 pixels / inverted	168-169	65.9-66.3%				
Random 8 pixels / inverted	170-171	66.7-67.1%				
Random 9 pixels / inverted	172-173	67.5-67.8%				
		No function	174-255	68.2-100%		
54	Pattern 2 speed	Pattern 1 speed slow-fast	0-255	0-100%	0	Fade
55	Pattern 2 fade	Pattern 1 intensity 0-100%	0-255	0-100%	0	Fade

56	Pattern 2 red	Intensity 0-100%	0-255	0-100%	0	Fade
57	Pattern 2 green	Intensity 0-100%	0-255	0-100%	0	Fade
58	Pattern 2 blue	Intensity 0-100%	0-255	0-100%	0	Fade
59	Pattern 2 white	Intensity 0-100%	0-255	0-100%	0	Fade
60	Pattern 2 shutter	Shutter closed	0-15	0-5.9%	0	Snap
		Random strobe	16-47	6.3-18.4%		
		Ramp up slow-fast	48-79	18.8-31.0%		
		Ramp down slow-fast	80-111	31.4-43.5%		
		Ramp up-down slow-fast	112-143	43.9-56.1%		
		Strobe pause 5s – 1s (slow – fast)	144-199	56.5-78.0%		
		Strobe 1Hz – 20 Hz (slow – fast)	200-239	78.4-93.7%		
Shutter open	240-255	94.1-100%				
61	Pattern 2 dimmer	Pattern 1 intensity 0-100%	0-255	0-100%	0	Fade

