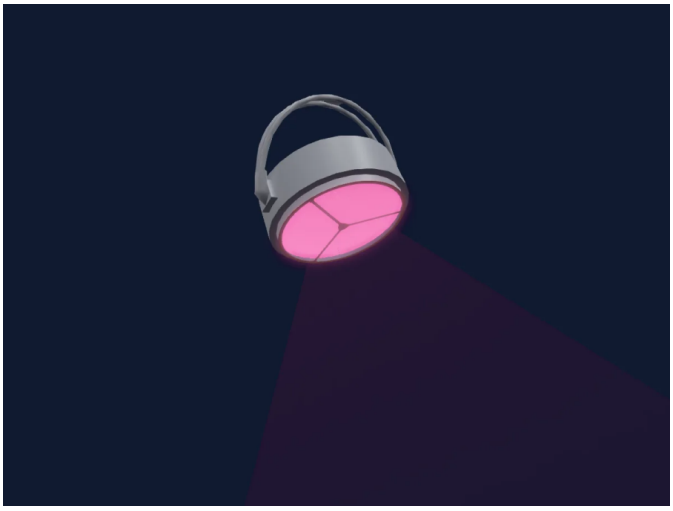
Robe Lighting

PATT 2017



Manufacturer	**Robe Lighting**
Type	**Moving head**
DMX modes	**7**
DMX footprint	**8, 13, 25, 27, 32, 38, 40 channels**
Beam angle	**58°**
Tilt range	**360°**
Heads / cells	**4**
Size (W × H × D)	**598 × 287 × 552 mm**
GDTF fixture type	**C9A0DDF3-120E-4E40-9A86-22…**

Controls

Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Pixel control

Safety-relevant functions

Service functions

DMX modes

Mode 7 - Pixel RGBW only	8 ch
Mode 1 - Wash	13 ch
Mode 3 - Pixel RGB	25 ch
Mode 4 - Pixel RGBW	27 ch
Mode 2 - Pattern	32 ch
Mode 5 - Pattern full RGB	38 ch
Mode 6 - Pattern full RGBW	40 ch

Mode 7 - Pixel RGBW only

8 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	White	255	
5	Red	255	
6	Green	255	
7	Blue	255	
8	White	255	

Mode 1 - Wash

13 channels

Ch	Function	Default	DMX values
1	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display ON 25–29 Display OFF 30–34 RGBW colour mixing mode 35–39 CMY colour mixing mode 40–44 Dimmer curve Square law 45–49 Dimmer curve Linear 50–54 White point 8000K On 55–59 White point 8000K Off 60–169 NoFeature 7 170–171 Tungsten effect simulation 750W 172–173 Tungsten effect simulation 1000W 174–175 Tungsten effect simulation 1200W 176–177 Tungsten effect simulation 2000W 178–179 Tungsten effect simulation 2500W 180–181 Tungsten effect simulation Off 182–255 NoFeature 9
2	Color Macro1	0	
3	Red	255	
4	Green	255	
5	Blue	255	
6	White	255	
7	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K

Mode 1 - Wash (continued)

Ch	Function	Default	DMX values
8	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–67 BackgroundStrobe · Slow to fast 1/12 0.3–2.21 Hz 68–70 BackgroundStrobe · Slow to fast 2/12 2.84–4.11 Hz 71–73 BackgroundStrobe · Slow to fast 3/12 4.75–6.02 Hz 74–76 BackgroundStrobe · Slow to fast 4/12 6.65–7.93 Hz 77–79 BackgroundStrobe · Slow to fast 5/12 8.56–9.83 Hz 80–82 BackgroundStrobe · Slow to fast 6/12 10.5–11.7 Hz 83–85 BackgroundStrobe · Slow to fast 7/12 12.4–13.6 Hz 86–88 BackgroundStrobe · Slow to fast 8/12 14.3–15.6 Hz 89–90 BackgroundStrobe · Slow to fast 9/12 16.2–16.8 Hz 91–92 BackgroundStrobe · Slow to fast 10/12 17.5–18.1 Hz 93–94 BackgroundStrobe · Slow to fast 11/12 18.7–19.4 Hz 95–95 BackgroundStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–130 BackgroundStrobePulseOpen · Slow to fast 1/7 0.1… 131–132 BackgroundStrobePulseOpen · Slow to fast 2/7 0.1… 133–134 BackgroundStrobePulseOpen · Slow to fast 3/7 0.2… 135–136 BackgroundStrobePulseOpen · Slow to fast 4/7 0.2… 137–138 BackgroundStrobePulseOpen · Slow to fast 5/7 0.3… 139–140 BackgroundStrobePulseOpen · Slow to fast 6/7 0.3… 141–143 BackgroundStrobePulseOpen · Slow to fast 7/7 0.4… 144–145 BackgroundStrobePulseClose · Fast to slow 1/7 0.5… 146–147 BackgroundStrobePulseClose · Fast to slow 2/7 0.4… 148–149 BackgroundStrobePulseClose · Fast to slow 3/7 0.3… 150–151 BackgroundStrobePulseClose · Fast to slow 4/7 0.3… 152–153 BackgroundStrobePulseClose · Fast to slow 5/7 0.2… 154–155 BackgroundStrobePulseClose · Fast to slow 6/7 0.2… 156–159 BackgroundStrobePulseClose · Fast to slow 7/7 0.1… 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
9	Dimmer	255	0–254 Closed 255–255 Open
10	L EDZone Mode	0	0–2 All pixels 3–4 Rings 5–6 Halves 7–8 Quarters 9–255 NoFeature 2
11	Color Mix Mode	45	0–9 Global colors 10–19 Maximum mode 20–29 Minimum mode 30–39 Multiply mode 40–49 Addition mode 50–59 Subtraction mode 60–69 Inverted subtraction mode 70–79 Colored background 80–127 No function 128–128 Global colors 129–254 Crossfade 255–255 Pixel colors

Mode 1 - Wash (continued)

Ch	Function	Default	DMX values
12	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 MasterStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 MasterStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 MasterStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 MasterStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 MasterStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 MasterStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 MasterStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 MasterStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 MasterStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
13	Dimmer	0	0–254 Closed 255–255 Open

Mode 3 - Pixel RGB

25 channels

Ch	Function	Default	DMX values
1	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display ON 25–29 Display OFF 30–34 RGBW colour mixing mode 35–39 CMY colour mixing mode 40–44 Dimmer curve Square law 45–49 Dimmer curve Linear 50–54 White point 8000K On 55–59 White point 8000K Off 60–169 NoFeature 7 170–171 Tungsten effect simulation 750W 172–173 Tungsten effect simulation 1000W 174–175 Tungsten effect simulation 1200W 176–177 Tungsten effect simulation 2000W 178–179 Tungsten effect simulation 2500W 180–181 Tungsten effect simulation Off 182–255 NoFeature 9
2	Color Macro1	0	
3	Red	255	
4	Red Fine	255	Fine byte of Red
5	Green	255	
6	Green Fine	255	Fine byte of Green
7	Blue	255	
8	Blue Fine	255	Fine byte of Blue
9	White	255	
10	White Fine	255	Fine byte of White
11	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K

Mode 3 - Pixel RGB (continued)

Ch	Function	Default	DMX values
12	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 BackgroundStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 BackgroundStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 BackgroundStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 BackgroundStrobePulseOpen · Slow to fast 1/7 0.1… 135–140 BackgroundStrobePulseOpen · Slow to fast 4/7 0.2… 141–143 BackgroundStrobePulseOpen · Slow to fast 7/7 0.4… 144–149 BackgroundStrobePulseClose · Fast to slow 1/7 0.5… 150–155 BackgroundStrobePulseClose · Fast to slow 4/7 0.3… 156–159 BackgroundStrobePulseClose · Fast to slow 7/7 0.1… 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
13	Dimmer	255	0–254 Closed 255–255 Open
14	Dimmer Fine	255	Fine byte of Dimmer
15	L EDZone Mode	0	0–2 All pixels 3–4 Rings 5–6 Halves 7–8 Quarters 9–255 NoFeature 2
16	Color Mix Mode	45	0–9 Global colors 10–19 Maximum mode 20–29 Minimum mode 30–39 Multiply mode 40–49 Addition mode 50–59 Subtraction mode 60–69 Inverted subtraction mode 70–79 Colored background 80–127 No function 128–128 Global colors 129–254 Crossfade 255–255 Pixel colors
17	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 MasterStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 MasterStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 MasterStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 MasterStrobePulseOpen · Slow to fast 1/7 0.12–0.2… 135–140 MasterStrobePulseOpen · Slow to fast 4/7 0.297–0.… 141–143 MasterStrobePulseOpen · Slow to fast 7/7 0.449–0.… 144–149 MasterStrobePulseClose · Fast to slow 1/7 0.5–0.36… 150–155 MasterStrobePulseClose · Fast to slow 4/7 0.34–0.2… 156–159 MasterStrobePulseClose · Fast to slow 7/7 0.18–0.1… 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
18	Dimmer	0	0–254 Closed 255–255 Open
19	Dimmer Fine	0	Fine byte of Dimmer
20	Red	0	
21	Green	0	
22	Blue	0	
23	Red	0	

Mode 3 - Pixel RGB (continued)

Ch	Function	Default	DMX values
24	Green	0	
25	Blue	0	

Mode 4 - Pixel RGBW

27 channels

Ch	Function	Default	DMX values
1	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display ON 25–29 Display OFF 30–34 RGBW colour mixing mode 35–39 CMY colour mixing mode 40–44 Dimmer curve Square law 45–49 Dimmer curve Linear 50–54 White point 8000K On 55–59 White point 8000K Off 60–169 NoFeature 7 170–171 Tungsten effect simulation 750W 172–173 Tungsten effect simulation 1000W 174–175 Tungsten effect simulation 1200W 176–177 Tungsten effect simulation 2000W 178–179 Tungsten effect simulation 2500W 180–181 Tungsten effect simulation Off 182–255 NoFeature 9
2	Color Macro1	0	
3	Red	255	
4	Red Fine	255	Fine byte of Red
5	Green	255	
6	Green Fine	255	Fine byte of Green
7	Blue	255	
8	Blue Fine	255	Fine byte of Blue
9	White	255	
10	White Fine	255	Fine byte of White
11	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K
12	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 BackgroundStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 BackgroundStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 BackgroundStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 BackgroundStrobePulseOpen · Slow to fast 1/7 0.1… 135–140 BackgroundStrobePulseOpen · Slow to fast 4/7 0.2… 141–143 BackgroundStrobePulseOpen · Slow to fast 7/7 0.4… 144–149 BackgroundStrobePulseClose · Fast to slow 1/7 0.5… 150–155 BackgroundStrobePulseClose · Fast to slow 4/7 0.3… 156–159 BackgroundStrobePulseClose · Fast to slow 7/7 0.1… 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open

Mode 4 - Pixel RGBW (continued)

Ch	Function	Default	DMX values
13	Dimmer	255	0–254 Closed 255–255 Open
14	Dimmer Fine	255	Fine byte of Dimmer
15	L EDZone Mode	0	0–2 All pixels 3–4 Rings 5–6 Halves 7–8 Quarters 9–255 NoFeature 2
16	Color Mix Mode	45	0–9 Global colors 10–19 Maximum mode 20–29 Minimum mode 30–39 Multiply mode 40–49 Addition mode 50–59 Subtraction mode 60–69 Inverted subtraction mode 70–79 Colored background 80–127 No function 128–128 Global colors 129–254 Crossfade 255–255 Pixel colors
17	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 MasterStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 MasterStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 MasterStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 MasterStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 MasterStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 MasterStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 MasterStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 MasterStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 MasterStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
18	Dimmer	0	0–254 Closed 255–255 Open
19	Dimmer Fine	0	Fine byte of Dimmer
20	Red	0	
21	Green	0	
22	Blue	0	
23	White	0	
24	Red	0	
25	Green	0	
26	Blue	0	
27	White	0	

Mode 2 - Pattern

32 channels

Ch	Function	Default	DMX values

Mode 2 - Pattern (continued)

Ch	Function	Default	DMX values
1	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display ON 25–29 Display OFF 30–34 RGBW colour mixing mode 35–39 CMY colour mixing mode 40–44 Dimmer curve Square law 45–49 Dimmer curve Linear 50–54 White point 8000K On 55–59 White point 8000K Off 60–169 NoFeature 7 170–171 Tungsten effect simulation 750W 172–173 Tungsten effect simulation 1000W 174–175 Tungsten effect simulation 1200W 176–177 Tungsten effect simulation 2000W 178–179 Tungsten effect simulation 2500W 180–181 Tungsten effect simulation Off 182–255 NoFeature 9
2	Color Macro1	0	
3	Red	255	
4	Red Fine	255	Fine byte of Red
5	Green	255	
6	Green Fine	255	Fine byte of Green
7	Blue	255	
8	Blue Fine	255	Fine byte of Blue
9	White	255	
10	White Fine	255	Fine byte of White
11	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K

Mode 2 - Pattern (continued)

Ch	Function	Default	DMX values
12	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–67 BackgroundStrobe · Slow to fast 1/12 0.3–2.21 Hz 68–70 BackgroundStrobe · Slow to fast 2/12 2.84–4.11 Hz 71–73 BackgroundStrobe · Slow to fast 3/12 4.75–6.02 Hz 74–76 BackgroundStrobe · Slow to fast 4/12 6.65–7.93 Hz 77–79 BackgroundStrobe · Slow to fast 5/12 8.56–9.83 Hz 80–82 BackgroundStrobe · Slow to fast 6/12 10.5–11.7 Hz 83–85 BackgroundStrobe · Slow to fast 7/12 12.4–13.6 Hz 86–88 BackgroundStrobe · Slow to fast 8/12 14.3–15.6 Hz 89–90 BackgroundStrobe · Slow to fast 9/12 16.2–16.8 Hz 91–92 BackgroundStrobe · Slow to fast 10/12 17.5–18.1 Hz 93–94 BackgroundStrobe · Slow to fast 11/12 18.7–19.4 Hz 95–95 BackgroundStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–130 BackgroundStrobePulseOpen · Slow to fast 1/7 0.1… 131–132 BackgroundStrobePulseOpen · Slow to fast 2/7 0.1… 133–134 BackgroundStrobePulseOpen · Slow to fast 3/7 0.2… 135–136 BackgroundStrobePulseOpen · Slow to fast 4/7 0.2… 137–138 BackgroundStrobePulseOpen · Slow to fast 5/7 0.3… 139–140 BackgroundStrobePulseOpen · Slow to fast 6/7 0.3… 141–143 BackgroundStrobePulseOpen · Slow to fast 7/7 0.4… 144–145 BackgroundStrobePulseClose · Fast to slow 1/7 0.5… 146–147 BackgroundStrobePulseClose · Fast to slow 2/7 0.4… 148–149 BackgroundStrobePulseClose · Fast to slow 3/7 0.3… 150–151 BackgroundStrobePulseClose · Fast to slow 4/7 0.3… 152–153 BackgroundStrobePulseClose · Fast to slow 5/7 0.2… 154–155 BackgroundStrobePulseClose · Fast to slow 6/7 0.2… 156–159 BackgroundStrobePulseClose · Fast to slow 7/7 0.1… 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
13	Dimmer	255	0–254 Closed 255–255 Open
14	Dimmer Fine	255	Fine byte of Dimmer
15	L EDZone Mode	0	0–2 All pixels 3–4 Rings 5–6 Halves 7–8 Quarters 9–255 NoFeature 2
16	Color Mix Mode	45	0–9 Global colors 10–19 Maximum mode 20–29 Minimum mode 30–39 Multiply mode 40–49 Addition mode 50–59 Subtraction mode 60–69 Inverted subtraction mode 70–79 Colored background 80–127 No function 128–128 Global colors 129–254 Crossfade 255–255 Pixel colors

Mode 2 - Pattern (continued)

Ch	Function	Default	DMX values
17	Pattern Selection	0	0–2 No pattern 3–4 Pattern 1 5–6 Pattern 2 7–8 Pattern 3 9–10 Pattern 4 11–12 Pattern 5 13–14 Pattern 6 15–16 Pattern 7 17–18 Pattern 8 19–20 Pattern 9 21–22 Pattern 10 23–24 Pattern 11 25–255 Reserved
18	Pattern Size	0	0–2 Variant 1 3–4 Variant 2 5–6 Variant 3 7–8 Variant 4 9–10 Variant 5 11–12 Variant 6 13–14 Variant 7 15–16 Variant 8 17–18 Variant 9 19–20 Variant 10 21–22 Variant 11 23–255 Reserved
19	Pattern Rotation	0	0–0 No movement 1–127 Pattern indexing 128–190 Forwards rotation from fast to slow 191–192 Pause - without rotation 193–255 Backwards rotation from slow to fast
20	Pattern Fade	0	0–0 Snap 1–254 Fade min 255–255 Fade max
21	Pattern Transition	0	0–0 No fade 1–254 100 ms 255–255 4 s
22	Pattern Crossfade	255	0–254 Background 255–255 Pattern
23	Red	255	
24	Green	255	
25	Blue	255	
26	White	255	
27	Color Macro1	0	0–2 No macro 3–8 Macro 1 9–14 Macro 2 15–20 Macro 3 21–26 Macro 4 27–32 Macro 5 33–255 Reserved

Mode 2 - Pattern (continued)

Ch	Function	Default	DMX values
28	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 PatternStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 PatternStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 PatternStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 PatternStrobePulseOpen · Slow to fast 1/7 0.12–0.... 135–140 PatternStrobePulseOpen · Slow to fast 4/7 0.297–0... 141–143 PatternStrobePulseOpen · Slow to fast 7/7 0.449–0... 144–149 PatternStrobePulseClose · Fast to slow 1/7 0.5–0.3... 150–155 PatternStrobePulseClose · Fast to slow 4/7 0.34–0.... 156–159 PatternStrobePulseClose · Fast to slow 7/7 0.18–0.... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
29	Dimmer	255	0–254 Closed 255–255 Open
30	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 MasterStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 MasterStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 MasterStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 MasterStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 MasterStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 MasterStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 MasterStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 MasterStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 MasterStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
31	Dimmer	0	0–254 Closed 255–255 Open
32	Dimmer Fine	0	Fine byte of Dimmer

Mode 5 - Pattern full RGB

38 channels

Ch	Function	Default	DMX values
1	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display ON 25–29 Display OFF 30–34 RGBW colour mixing mode 35–39 CMY colour mixing mode 40–44 Dimmer curve Square law 45–49 Dimmer curve Linear 50–54 White point 8000K On 55–59 White point 8000K Off 60–169 NoFeature 7 170–171 Tungsten effect simulation 750W 172–173 Tungsten effect simulation 1000W 174–175 Tungsten effect simulation 1200W 176–177 Tungsten effect simulation 2000W 178–179 Tungsten effect simulation 2500W 180–181 Tungsten effect simulation Off 182–255 NoFeature 9

Mode 5 - Pattern full RGB (continued)

Ch	Function	Default	DMX values
2	Color Macro1	0	
3	Red	255	
4	Red Fine	255	Fine byte of Red
5	Green	255	
6	Green Fine	255	Fine byte of Green
7	Blue	255	
8	Blue Fine	255	Fine byte of Blue
9	White	255	
10	White Fine	255	Fine byte of White
11	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K
12	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 BackgroundStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 BackgroundStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 BackgroundStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 BackgroundStrobePulseOpen · Slow to fast 1/7 0.1… 135–140 BackgroundStrobePulseOpen · Slow to fast 4/7 0.2… 141–143 BackgroundStrobePulseOpen · Slow to fast 7/7 0.4… 144–149 BackgroundStrobePulseClose · Fast to slow 1/7 0.5… 150–155 BackgroundStrobePulseClose · Fast to slow 4/7 0.3… 156–159 BackgroundStrobePulseClose · Fast to slow 7/7 0.1… 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
13	Dimmer	255	0–254 Closed 255–255 Open
14	Dimmer Fine	255	Fine byte of Dimmer
15	L EDZone Mode	0	0–2 All pixels 3–4 Rings 5–6 Halves 7–8 Quarters 9–255 NoFeature 2
16	Color Mix Mode	45	0–9 Global colors 10–19 Maximum mode 20–29 Minimum mode 30–39 Multiply mode 40–49 Addition mode 50–59 Subtraction mode 60–69 Inverted subtraction mode 70–79 Colored background 80–127 No function 128–128 Global colors 129–254 Crossfade 255–255 Pixel colors

Mode 5 - Pattern full RGB (continued)

Ch	Function	Default	DMX values
17	Pattern Selection	0	0–2 No pattern 3–4 Pattern 1 5–6 Pattern 2 7–8 Pattern 3 9–10 Pattern 4 11–12 Pattern 5 13–14 Pattern 6 15–16 Pattern 7 17–18 Pattern 8 19–20 Pattern 9 21–22 Pattern 10 23–24 Pattern 11 25–255 Reserved
18	Pattern Size	0	0–2 Variant 1 3–4 Variant 2 5–6 Variant 3 7–8 Variant 4 9–10 Variant 5 11–12 Variant 6 13–14 Variant 7 15–16 Variant 8 17–18 Variant 9 19–20 Variant 10 21–22 Variant 11 23–255 Reserved
19	Pattern Rotation	0	0–0 No movement 1–127 Pattern indexing 128–190 Forwards rotation from fast to slow 191–192 Pause - without rotation 193–255 Backwards rotation from slow to fast
20	Pattern Fade	0	0–0 Snap 1–254 Fade min 255–255 Fade max
21	Pattern Transition	0	0–0 No fade 1–254 100 ms 255–255 4 s
22	Pattern Crossfade	255	0–254 Background 255–255 Pattern
23	Red	255	
24	Green	255	
25	Blue	255	
26	White	255	
27	Color Macro1	0	0–2 No macro 3–8 Macro 1 9–14 Macro 2 15–20 Macro 3 21–26 Macro 4 27–32 Macro 5 33–255 Reserved

Mode 5 - Pattern full RGB (continued)

Ch	Function	Default	DMX values
28	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 PatternStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 PatternStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 PatternStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 PatternStrobePulseOpen · Slow to fast 1/7 0.12–0.... 135–140 PatternStrobePulseOpen · Slow to fast 4/7 0.297–0... 141–143 PatternStrobePulseOpen · Slow to fast 7/7 0.449–0... 144–149 PatternStrobePulseClose · Fast to slow 1/7 0.5–0.3... 150–155 PatternStrobePulseClose · Fast to slow 4/7 0.34–0.... 156–159 PatternStrobePulseClose · Fast to slow 7/7 0.18–0.... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
29	Dimmer	255	0–254 Closed 255–255 Open
30	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 MasterStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 MasterStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 MasterStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 MasterStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 MasterStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 MasterStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 MasterStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 MasterStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 MasterStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
31	Dimmer	0	0–254 Closed 255–255 Open
32	Dimmer Fine	0	Fine byte of Dimmer
33	Red	0	
34	Green	0	
35	Blue	0	
36	Red	0	
37	Green	0	
38	Blue	0	

Mode 6 - Pattern full RGBW

40 channels

Ch	Function	Default	DMX values

Mode 6 - Pattern full RGBW (continued)

Ch	Function	Default	DMX values
1	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display ON 25–29 Display OFF 30–34 RGBW colour mixing mode 35–39 CMY colour mixing mode 40–44 Dimmer curve Square law 45–49 Dimmer curve Linear 50–54 White point 8000K On 55–59 White point 8000K Off 60–169 NoFeature 7 170–171 Tungsten effect simulation 750W 172–173 Tungsten effect simulation 1000W 174–175 Tungsten effect simulation 1200W 176–177 Tungsten effect simulation 2000W 178–179 Tungsten effect simulation 2500W 180–181 Tungsten effect simulation Off 182–255 NoFeature 9
2	Color Macro1	0	
3	Red	255	
4	Red Fine	255	Fine byte of Red
5	Green	255	
6	Green Fine	255	Fine byte of Green
7	Blue	255	
8	Blue Fine	255	Fine byte of Blue
9	White	255	
10	White Fine	255	Fine byte of White
11	C TO	0	0–63 8000K 64–127 5600K 128–191 4200K 192–254 3200K 255–255 2700K
12	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 BackgroundStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 BackgroundStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 BackgroundStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 BackgroundStrobePulseOpen · Slow to fast 1/7 0.1… 135–140 BackgroundStrobePulseOpen · Slow to fast 4/7 0.2… 141–143 BackgroundStrobePulseOpen · Slow to fast 7/7 0.4… 144–149 BackgroundStrobePulseClose · Fast to slow 1/7 0.5… 150–155 BackgroundStrobePulseClose · Fast to slow 4/7 0.3… 156–159 BackgroundStrobePulseClose · Fast to slow 7/7 0.1… 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
13	Dimmer	255	0–254 Closed 255–255 Open
14	Dimmer Fine	255	Fine byte of Dimmer
15	L EDZone Mode	0	0–2 All pixels 3–4 Rings 5–6 Halves 7–8 Quarters 9–255 NoFeature 2

Mode 6 - Pattern full RGBW (continued)

Ch	Function	Default	DMX values
16	Color Mix Mode	45	0–9 Global colors 10–19 Maximum mode 20–29 Minimum mode 30–39 Multiply mode 40–49 Addition mode 50–59 Subtraction mode 60–69 Inverted subtraction mode 70–79 Colored background 80–127 No function 128–128 Global colors 129–254 Crossfade 255–255 Pixel colors
17	Pattern Selection	0	0–2 No pattern 3–4 Pattern 1 5–6 Pattern 2 7–8 Pattern 3 9–10 Pattern 4 11–12 Pattern 5 13–14 Pattern 6 15–16 Pattern 7 17–18 Pattern 8 19–20 Pattern 9 21–22 Pattern 10 23–24 Pattern 11 25–255 Reserved
18	Pattern Size	0	0–2 Variant 1 3–4 Variant 2 5–6 Variant 3 7–8 Variant 4 9–10 Variant 5 11–12 Variant 6 13–14 Variant 7 15–16 Variant 8 17–18 Variant 9 19–20 Variant 10 21–22 Variant 11 23–255 Reserved
19	Pattern Rotation	0	0–0 No movement 1–127 Pattern indexing 128–190 Forwards rotation from fast to slow 191–192 Pause - without rotation 193–255 Backwards rotation from slow to fast
20	Pattern Fade	0	0–0 Snap 1–254 Fade min 255–255 Fade max
21	Pattern Transition	0	0–0 No fade 1–254 100 ms 255–255 4 s
22	Pattern Crossfade	255	0–254 Background 255–255 Pattern
23	Red	255	
24	Green	255	
25	Blue	255	
26	White	255	

Mode 6 - Pattern full RGBW (continued)

Ch	Function	Default	DMX values
27	Color Macro1	0	0–2 No macro 3–8 Macro 1 9–14 Macro 2 15–20 Macro 3 21–26 Macro 4 27–32 Macro 5 33–255 Reserved
28	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 PatternStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 PatternStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 PatternStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 PatternStrobePulseOpen · Slow to fast 1/7 0.12–0.... 135–140 PatternStrobePulseOpen · Slow to fast 4/7 0.297–0... 141–143 PatternStrobePulseOpen · Slow to fast 7/7 0.449–0... 144–149 PatternStrobePulseClose · Fast to slow 1/7 0.5–0.3... 150–155 PatternStrobePulseClose · Fast to slow 4/7 0.34–0.... 156–159 PatternStrobePulseClose · Fast to slow 7/7 0.18–0.... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
29	Dimmer	255	0–254 Closed 255–255 Open
30	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 MasterStrobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 MasterStrobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 MasterStrobe · Slow to fast 12/12 20 Hz 96–127 Shutter open 128–134 MasterStrobePulseOpen · Slow to fast 1/7 0.12–0.2... 135–140 MasterStrobePulseOpen · Slow to fast 4/7 0.297–0.... 141–143 MasterStrobePulseOpen · Slow to fast 7/7 0.449–0.... 144–149 MasterStrobePulseClose · Fast to slow 1/7 0.5–0.36... 150–155 MasterStrobePulseClose · Fast to slow 4/7 0.34–0.2... 156–159 MasterStrobePulseClose · Fast to slow 7/7 0.18–0.1... 160–191 Shutter open 192–222 Random strobe slow 223–223 Random strobe fast 224–255 Shutter open
31	Dimmer	0	0–254 Closed 255–255 Open
32	Dimmer Fine	0	Fine byte of Dimmer
33	Red	0	
34	Green	0	
35	Blue	0	
36	White	0	
37	Red	0	
38	Green	0	
39	Blue	0	
40	White	0	