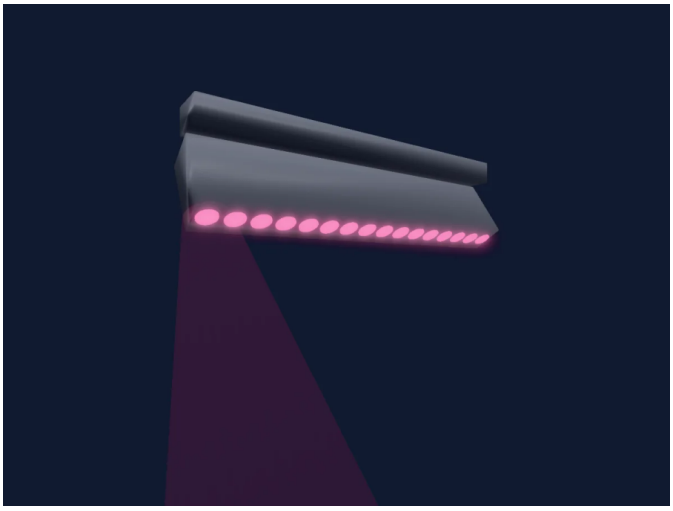
OGSON fixtures

Clay Paky Tambora Batten



Manufacturer	**OGSON fixtures**
Type	**Moving head**
DMX modes	**15**
DMX footprint	**13, 17, 27, 29, 35 channels**
Beam angle	**4-40°**
Tilt range	**215°**
Heads / cells	**2**
Size (W × H × D)	**1000 × 190 × 107 mm**
GDTF fixture type	**FEE1AB17-0AEE-4980-BAEF-C0…**

Controls

Zoom · Extra LED colours · RGB colour mixing · Colour temperature · Strobe · Dimmer · Pixel control · Pan and tilt · Gobos · Gobo rotation

Safety-relevant functions

Fixture reset · Service functions

DMX modes

Standard RGBW	13 ch
Standard RGBW + pixel engine RGB	13 ch
Standard RGBW + pixel engine RGBW	13 ch
Standard RGBW 16bit	17 ch
Standard RGBW 16bit + pixel engine RGB	17 ch
Standard RGBW 16bit + pixel engine RGBW	17 ch
Shape RGBW	27 ch
Shape RGBW + pixel engine RGB	27 ch
Shape RGBW + pixel engine RGBW	27 ch
Advanced	29 ch
Advanced + pixel engine RGB	29 ch
Advanced + pixel engine RGBW	29 ch
Shape RGBW 16bit	35 ch
Shape RGBW 16bit + pixel engine RGB	35 ch
Shape RGBW 16bit + pixel engine RGBW	35 ch

Standard RGBW

13 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	White	0	
5	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
6	Shutter / Strobe	0	0–3 Close 4–102 Shutter1Strobe 2 · 1Hz 1–24.8 Hz 103–103 Shutter1Strobe 2 · 25Hz 25 Hz 104–107 Open 108–206 Pulse 1/2Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
7	Dimmer	0	0–254 Closed 255–255 Open
8	Dimmer Fine	0	Fine byte of Dimmer
9	Tilt	128	
10	Tilt Fine	0	Fine byte of Tilt
11	Zoom	0	0–127 Narrow 128–254 Mid 255–255 Wide

Standard RGBW (continued)

Ch	Function	Default	DMX values
12	Control1	0	0–1 No Feature 2–3 Auto (default) 4–5 Silent 6–7 Theatre 8–11 Constant 12–24 Tilt speed : Fast (Default) 25–37 Tilt speed : Standard 38–42 Dimmer curve 1 (Default) 43–47 Dimmer curve 2 48–52 Dimmer curve 3 53–55 Dimmer curve 4 56–57 Dimmer curve 5 58–62 Raw color gamma : 1 63–67 Raw color gamma : 1_5 68–72 Raw color gamma : 2_2 (Default) 73–77 Color calibration : OFF (Default) 78–82 Color calibration : ON 83–87 Reverse mapping : OFF (Default) 88–92 Reverse mapping : ON 93–97 Pixel mapping : Disabled (Default) 98–102 Pixel mapping : ON RGB mode (__active 0sec__) 103–107 Pixel mapping : ON RGBW mode (__active 0sec__) 108–112 Zoom reposition : ON (Default) 113–167 Zoom reposition : OFF 168–188 PWM frequency : 600Hz 189–199 PWM frequency : 1200Hz 200–210 PWM frequency : 2000Hz (Default) 211–221 PWM frequency : 4000Hz 222–232 PWM frequency : 6000Hz 233–243 PWM frequency : 25000Hz 244–248 Display : OFF (Default) 249–253 Display : ON 254–255 Default Function Recall
13	Fixture Global Reset	0	0–25 No function 26–76 Zoom Reset 77–127 Tilt Reset 128–255 Reset ALL

Standard RGBW + pixel engine RGB

13 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	White	0	
5	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K

Standard RGBW + pixel engine RGB (continued)

Ch	Function	Default	DMX values
6	Shutter / Strobe	252	0–3 Close 4–102 Shutter1Strobe 2 · 1Hz 1–24.8 Hz 103–103 Shutter1Strobe 2 · 25Hz 25 Hz 104–107 Open 108–206 Pulse 1/2Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
7	Dimmer	0	0–254 Closed 255–255 Open
8	Dimmer Fine	0	Fine byte of Dimmer
9	Tilt	128	
10	Tilt Fine	0	Fine byte of Tilt
11	Zoom	0	0–127 Narrow 128–254 Mid 255–255 Wide
12	Control1	0	0–1 No Feature 2–3 Auto (default) 4–5 Silent 6–7 Theatre 8–11 Constant 12–24 Tilt speed : Fast (Default) 25–37 Tilt speed : Standard 38–42 Dimmer curve 1 (Default) 43–47 Dimmer curve 2 48–52 Dimmer curve 3 53–55 Dimmer curve 4 56–57 Dimmer curve 5 58–62 Raw color gamma : 1 63–67 Raw color gamma : 1_5 68–72 Raw color gamma : 2_2 (Default) 73–77 Color calibration : OFF (Default) 78–82 Color calibration : ON 83–87 Reverse mapping : OFF (Default) 88–92 Reverse mapping : ON 93–97 Pixel mapping : Disabled (Default) 98–102 Pixel mapping : ON RGB mode (__active 0sec__) 103–107 Pixel mapping : ON RGBW mode (__active 0sec__) 108–112 Zoom reposition : ON (Default) 113–167 Zoom reposition : OFF 168–188 PWM frequency : 600Hz 189–199 PWM frequency : 1200Hz 200–210 PWM frequency : 2000Hz (Default) 211–221 PWM frequency : 4000Hz 222–232 PWM frequency : 6000Hz 233–243 PWM frequency : 25000Hz 244–248 Display : OFF (Default) 249–253 Display : ON 254–255 Default Function Recall
13	Fixture Global Reset	0	0–25 No function 26–76 Zoom Reset 77–127 Tilt Reset 128–255 Reset ALL

Standard RGBW + pixel engine RGBW

13 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	White	0	
5	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
6	Shutter / Strobe	252	0–3 Close 4–102 Shutter1Strobe 2 · 1Hz 1–24.8 Hz 103–103 Shutter1Strobe 2 · 25Hz 25 Hz 104–107 Open 108–206 Pulse 1/2Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
7	Dimmer	0	0–254 Closed 255–255 Open
8	Dimmer Fine	0	Fine byte of Dimmer
9	Tilt	128	
10	Tilt Fine	0	Fine byte of Tilt
11	Zoom	0	0–127 Narrow 128–254 Mid 255–255 Wide

Standard RGBW + pixel engine RGBW (continued)

Ch	Function	Default	DMX values
12	Control1	0	0–1 No Feature 2–3 Auto (default) 4–5 Silent 6–7 Theatre 8–11 Constant 12–24 Tilt speed : Fast (Default) 25–37 Tilt speed : Standard 38–42 Dimmer curve 1 (Default) 43–47 Dimmer curve 2 48–52 Dimmer curve 3 53–55 Dimmer curve 4 56–57 Dimmer curve 5 58–62 Raw color gamma : 1 63–67 Raw color gamma : 1_5 68–72 Raw color gamma : 2_2 (Default) 73–77 Color calibration : OFF (Default) 78–82 Color calibration : ON 83–87 Reverse mapping : OFF (Default) 88–92 Reverse mapping : ON 93–97 Pixel mapping : Disabled (Default) 98–102 Pixel mapping : ON RGB mode (__active 0sec__) 103–107 Pixel mapping : ON RGBW mode (__active 0sec__) 108–112 Zoom reposition : ON (Default) 113–167 Zoom reposition : OFF 168–188 PWM frequency : 600Hz 189–199 PWM frequency : 1200Hz 200–210 PWM frequency : 2000Hz (Default) 211–221 PWM frequency : 4000Hz 222–232 PWM frequency : 6000Hz 233–243 PWM frequency : 25000Hz 244–248 Display : OFF (Default) 249–253 Display : ON 254–255 Default Function Recall
13	Fixture Global Reset	0	0–25 No function 26–76 Zoom Reset 77–127 Tilt Reset 128–255 Reset ALL

Standard RGBW 16bit

17 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Red Fine	255	Fine byte of Red
3	Green	255	
4	Green Fine	255	Fine byte of Green
5	Blue	255	
6	Blue Fine	255	Fine byte of Blue
7	White	0	
8	White Fine	0	Fine byte of White
9	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K

Standard RGBW 16bit (continued)

Ch	Function	Default	DMX values
10	Shutter / Strobe	0	0–3 Close 4–4 Shutter1Strobe 2 · 1Hz 1 Hz 5–102 Shutter1Strobe 2 · 1Hz - 25Hz 1.24–24.8 Hz 103–103 Shutter1Strobe 2 · 25Hz 25 Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 Shutter1StrobePulse 4 · 1/2Hz - 25Hz 0.747–24.8 Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
11	Dimmer	0	0–254 Closed 255–255 Open
12	Dimmer Fine	0	Fine byte of Dimmer
13	Tilt	128	
14	Tilt Fine	0	Fine byte of Tilt
15	Zoom	0	0–127 Narrow 128–254 Mid 255–255 Wide
16	Control1	0	0–1 No Feature 2–3 Auto (default) 4–5 Silent 6–7 Theatre 8–11 Constant 12–24 Tilt speed : Fast (Default) 25–37 Tilt speed : Standard 38–42 Dimmer curve 1 (Default) 43–47 Dimmer curve 2 48–52 Dimmer curve 3 53–55 Dimmer curve 4 56–57 Dimmer curve 5 58–62 Raw color gamma : 1 63–67 Raw color gamma : 1_5 68–72 Raw color gamma : 2_2 (Default) 73–77 Color calibration : OFF (Default) 78–82 Color calibration : ON 83–87 Reverse mapping : OFF (Default) 88–92 Reverse mapping : ON 93–97 Pixel mapping : Disabled (Default) 98–102 Pixel mapping : ON RGB mode (__active 0sec__) 103–107 Pixel mapping : ON RGBW mode (__active 0sec__) 108–112 Zoom reposition : ON (Default) 113–167 Zoom reposition : OFF 168–188 PWM frequency : 600Hz 189–199 PWM frequency : 1200Hz 200–210 PWM frequency : 2000Hz (Default) 211–221 PWM frequency : 4000Hz 222–232 PWM frequency : 6000Hz 233–243 PWM frequency : 25000Hz 244–248 Display : OFF (Default) 249–253 Display : ON 254–255 Default Function Recall
17	Fixture Global Reset	0	0–25 NO USE 26–76 Zoom Reset 77–127 Tilt Reset 128–255 Reset ALL

Standard RGBW 16bit + pixel engine RGB

17 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Red Fine	255	Fine byte of Red
3	Green	255	
4	Green Fine	255	Fine byte of Green
5	Blue	255	
6	Blue Fine	255	Fine byte of Blue
7	White	0	
8	White Fine	0	Fine byte of White
9	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
10	Shutter / Strobe	252	0–3 Close 4–4 Shutter1Strobe 2 · 1Hz 1 Hz 5–102 Shutter1Strobe 2 · 1Hz - 25Hz 1.24–24.8 Hz 103–103 Shutter1Strobe 2 · 25Hz 25 Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 Shutter1StrobePulse 4 · 1/2Hz - 25Hz 0.747–24.8 Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
11	Dimmer	0	0–254 Closed 255–255 Open
12	Dimmer Fine	0	Fine byte of Dimmer
13	Tilt	128	
14	Tilt Fine	0	Fine byte of Tilt
15	Zoom	0	0–127 Narrow 128–254 Mid 255–255 Wide

Standard RGBW 16bit + pixel engine RGB (continued)

Ch	Function	Default	DMX values
16	Control1	0	0–1 No Feature 2–3 Auto (default) 4–5 Silent 6–7 Theatre 8–11 Constant 12–24 Tilt speed : Fast (Default) 25–37 Tilt speed : Standard 38–42 Dimmer curve 1 (Default) 43–47 Dimmer curve 2 48–52 Dimmer curve 3 53–55 Dimmer curve 4 56–57 Dimmer curve 5 58–62 Raw color gamma : 1 63–67 Raw color gamma : 1_5 68–72 Raw color gamma : 2_2 (Default) 73–77 Color calibration : OFF (Default) 78–82 Color calibration : ON 83–87 Reverse mapping : OFF (Default) 88–92 Reverse mapping : ON 93–97 Pixel mapping : Disabled (Default) 98–102 Pixel mapping : ON RGB mode (__active 0sec__) 103–107 Pixel mapping : ON RGBW mode (__active 0sec__) 108–112 Zoom reposition : ON (Default) 113–167 Zoom reposition : OFF 168–188 PWM frequency : 600Hz 189–199 PWM frequency : 1200Hz 200–210 PWM frequency : 2000Hz (Default) 211–221 PWM frequency : 4000Hz 222–232 PWM frequency : 6000Hz 233–243 PWM frequency : 25000Hz 244–248 Display : OFF (Default) 249–253 Display : ON 254–255 Default Function Recall
17	Fixture Global Reset	0	0–25 NO USE 26–76 Zoom Reset 77–127 Tilt Reset 128–255 Reset ALL

Standard RGBW 16bit + pixel engine RGBW

17 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Red Fine	255	Fine byte of Red
3	Green	255	
4	Green Fine	255	Fine byte of Green
5	Blue	255	
6	Blue Fine	255	Fine byte of Blue
7	White	0	
8	White Fine	0	Fine byte of White
9	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K

Standard RGBW 16bit + pixel engine RGBW (continued)

Ch	Function	Default	DMX values
10	Shutter / Strobe	252	0–3 Close 4–4 Shutter1Strobe 2 · 1Hz 1 Hz 5–102 Shutter1Strobe 2 · 1Hz - 25Hz 1.24–24.8 Hz 103–103 Shutter1Strobe 2 · 25Hz 25 Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 Shutter1StrobePulse 4 · 1/2Hz - 25Hz 0.747–24.8 Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
11	Dimmer	0	0–254 Closed 255–255 Open
12	Dimmer Fine	0	Fine byte of Dimmer
13	Tilt	128	
14	Tilt Fine	0	Fine byte of Tilt
15	Zoom	0	0–127 Narrow 128–254 Mid 255–255 Wide
16	Control1	0	0–1 No Feature 2–3 Auto (default) 4–5 Silent 6–7 Theatre 8–11 Constant 12–24 Tilt speed : Fast (Default) 25–37 Tilt speed : Standard 38–42 Dimmer curve 1 (Default) 43–47 Dimmer curve 2 48–52 Dimmer curve 3 53–55 Dimmer curve 4 56–57 Dimmer curve 5 58–62 Raw color gamma : 1 63–67 Raw color gamma : 1_5 68–72 Raw color gamma : 2_2 (Default) 73–77 Color calibration : OFF (Default) 78–82 Color calibration : ON 83–87 Reverse mapping : OFF (Default) 88–92 Reverse mapping : ON 93–97 Pixel mapping : Disabled (Default) 98–102 Pixel mapping : ON RGB mode (__active 0sec__) 103–107 Pixel mapping : ON RGBW mode (__active 0sec__) 108–112 Zoom reposition : ON (Default) 113–167 Zoom reposition : OFF 168–188 PWM frequency : 600Hz 189–199 PWM frequency : 1200Hz 200–210 PWM frequency : 2000Hz (Default) 211–221 PWM frequency : 4000Hz 222–232 PWM frequency : 6000Hz 233–243 PWM frequency : 25000Hz 244–248 Display : OFF (Default) 249–253 Display : ON 254–255 Default Function Recall
17	Fixture Global Reset	0	0–25 NO USE 26–76 Zoom Reset 77–127 Tilt Reset 128–255 Reset ALL

Shape RGBW

27 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	White	0	
5	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
6	Shutter / Strobe	252	0–3 Close 4–4 Shutter1Strobe 2 · 1Hz 1 Hz 5–102 Shutter1Strobe 2 · 1Hz - 25Hz 1.24–24.8 Hz 103–103 Shutter1Strobe 2 · 25Hz 25 Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 Shutter1StrobePulse 4 · 1/2Hz - 25Hz 0.747–24.8 Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
7	Dimmer	0	0–254 Closed 255–255 Open
8	Dimmer Fine	0	Fine byte of Dimmer
9	Tilt	128	
10	Tilt Fine	0	Fine byte of Tilt
11	Zoom	0	0–127 Narrow 128–254 Mid 255–255 Wide

Shape RGBW (continued)

Ch	Function	Default	DMX values
12	Control1	0	0–1 No Feature 2–3 Auto (default) 4–5 Silent 6–7 Theatre 8–11 Constant 12–24 Tilt speed : Fast (Default) 25–37 Tilt speed : Standard 38–42 Dimmer curve 1 (Default) 43–47 Dimmer curve 2 48–52 Dimmer curve 3 53–55 Dimmer curve 4 56–57 Dimmer curve 5 58–62 Raw color gamma : 1 63–67 Raw color gamma : 1_5 68–72 Raw color gamma : 2_2 (Default) 73–77 Color calibration : OFF (Default) 78–82 Color calibration : ON 83–87 Reverse mapping : OFF (Default) 88–92 Reverse mapping : ON 93–97 Pixel mapping : Disabled (Default) 98–102 Pixel mapping : ON RGB mode (__active 0sec__) 103–107 Pixel mapping : ON RGBW mode (__active 0sec__) 108–112 Zoom reposition : ON (Default) 113–167 Zoom reposition : OFF 168–188 PWM frequency : 600Hz 189–199 PWM frequency : 1200Hz 200–210 PWM frequency : 2000Hz (Default) 211–221 PWM frequency : 4000Hz 222–232 PWM frequency : 6000Hz 233–243 PWM frequency : 25000Hz 244–248 Display : OFF (Default) 249–253 Display : ON 254–255 Default Function Recall
13	Fixture Global Reset	0	0–25 NO USE 26–76 Zoom Reset 77–127 Tilt Reset 128–255 Reset ALL
14	Shape Selection	0	0–5 Nomal 6–130 Static 131–255 Dynamic

Shape RGBW (continued)

Ch	Function	Default	DMX values
15	Gobo	0	0–7 Effect 1 8–15 Effect 2 16–23 Effect 3 24–31 Effect 4 32–38 Effect 5 39–46 Effect 6 47–54 Effect 7 55–62 Effect 8 63–69 Effect 9 70–77 Effect 10 78–85 Effect 11 86–93 Effect 12 94–100 Effect 13 101–108 Effect 14 109–116 Effect 15 117–124 Effect 16 125–131 Effect 17 132–139 Effect 18 140–147 Effect 19 148–155 Effect 20 156–162 Effect 21 163–170 Effect 22 171–178 Effect 23 179–186 Effect 24 187–193 Effect 25 194–201 Effect 26 202–209 Effect 27 210–217 Effect 28 218–224 Effect 29 225–232 Effect 30 233–240 Effect 31 241–248 Effect 32 249–255 Effect 33
16	Gobo Rotation	0	0–119 >>> 120–124 > 125–134 STOP 135–254 < 255–255 <<<
17	Shape Fade	0	0–5 OFF(Cut Change) 6–129 Fade change : Fast 130–130 Fade change : Slow 131–254 Wake Change : Fast 255–255 Wake Change : Slow
18	Shutter / Strobe	252	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
19	Dimmer	0	0–254 0 255–255 100
20	Shape Transition	0	0–0 Cut change 1–254 C ch - F ch 255–255 Fade change

Shape RGBW (continued)

Ch	Function	Default	DMX values
21	Red	255	0–127 0 128–254 50 255–255 100
22	Green	255	0–127 0 128–254 50 255–255 100
23	Blue	255	0–127 0 128–254 50 255–255 100
24	White	0	0–127 0 128–254 50 255–255 100
25	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
26	Shutter / Strobe	252	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
27	Dimmer	0	0–254 0 255–255 100

Shape RGBW + pixel engine RGB

27 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	White	0	
5	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K

Shape RGBW + pixel engine RGB (continued)

Ch	Function	Default	DMX values
6	Shutter / Strobe	252	0–3 Close 4–4 Shutter1Strobe 2 · 1Hz 1 Hz 5–102 Shutter1Strobe 2 · 1Hz - 25Hz 1.24–24.8 Hz 103–103 Shutter1Strobe 2 · 25Hz 25 Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 Shutter1StrobePulse 4 · 1/2Hz - 25Hz 0.747–24.8 Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
7	Dimmer	0	0–254 Closed 255–255 Open
8	Dimmer Fine	0	Fine byte of Dimmer
9	Tilt	128	
10	Tilt Fine	0	Fine byte of Tilt
11	Zoom	0	0–127 Narrow 128–254 Mid 255–255 Wide
12	Control1	0	0–1 No Feature 2–3 Auto (default) 4–5 Silent 6–7 Theatre 8–11 Constant 12–24 Tilt speed : Fast (Default) 25–37 Tilt speed : Standard 38–42 Dimmer curve 1 (Default) 43–47 Dimmer curve 2 48–52 Dimmer curve 3 53–55 Dimmer curve 4 56–57 Dimmer curve 5 58–62 Raw color gamma : 1 63–67 Raw color gamma : 1_5 68–72 Raw color gamma : 2_2 (Default) 73–77 Color calibration : OFF (Default) 78–82 Color calibration : ON 83–87 Reverse mapping : OFF (Default) 88–92 Reverse mapping : ON 93–97 Pixel mapping : Disabled (Default) 98–102 Pixel mapping : ON RGB mode (__active 0sec__) 103–107 Pixel mapping : ON RGBW mode (__active 0sec__) 108–112 Zoom reposition : ON (Default) 113–167 Zoom reposition : OFF 168–188 PWM frequency : 600Hz 189–199 PWM frequency : 1200Hz 200–210 PWM frequency : 2000Hz (Default) 211–221 PWM frequency : 4000Hz 222–232 PWM frequency : 6000Hz 233–243 PWM frequency : 25000Hz 244–248 Display : OFF (Default) 249–253 Display : ON 254–255 Default Function Recall
13	Fixture Global Reset	0	0–25 NO USE 26–76 Zoom Reset 77–127 Tilt Reset 128–255 Reset ALL

Shape RGBW + pixel engine RGB (continued)

Ch	Function	Default	DMX values
14	Shape Selection	0	0–5 Nomal 6–130 Static 131–255 Dynamic
15	Gobo	0	0–7 Effect 1 8–15 Effect 2 16–23 Effect 3 24–31 Effect 4 32–38 Effect 5 39–46 Effect 6 47–54 Effect 7 55–62 Effect 8 63–69 Effect 9 70–77 Effect 10 78–85 Effect 11 86–93 Effect 12 94–100 Effect 13 101–108 Effect 14 109–116 Effect 15 117–124 Effect 16 125–131 Effect 17 132–139 Effect 18 140–147 Effect 19 148–155 Effect 20 156–162 Effect 21 163–170 Effect 22 171–178 Effect 23 179–186 Effect 24 187–193 Effect 25 194–201 Effect 26 202–209 Effect 27 210–217 Effect 28 218–224 Effect 29 225–232 Effect 30 233–240 Effect 31 241–248 Effect 32 249–255 Effect 33
16	Gobo Rotation	0	0–119 >>> 120–124 > 125–134 STOP 135–254 < 255–255 <<<
17	Shape Fade	0	0–5 OFF(Cut Change) 6–129 Fade change : Fast 130–130 Fade change : Slow 131–254 Wake Change : Fast 255–255 Wake Change : Slow
18	Shutter / Strobe	252	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
19	Dimmer	0	0–254 0 255–255 100

Shape RGBW + pixel engine RGB (continued)

Ch	Function	Default	DMX values
20	Shape Transition	0	0–0 Cut change 1–254 C ch - F ch 255–255 Fade change
21	Red	255	0–127 0 128–254 50 255–255 100
22	Green	255	0–127 0 128–254 50 255–255 100
23	Blue	255	0–127 0 128–254 50 255–255 100
24	White	0	0–127 0 128–254 50 255–255 100
25	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
26	Shutter / Strobe	252	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
27	Dimmer	0	0–254 0 255–255 100

Shape RGBW + pixel engine RGBW

27 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	White	0	
5	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K

Shape RGBW + pixel engine RGBW (continued)

Ch	Function	Default	DMX values
6	Shutter / Strobe	252	0–3 Close 4–4 Shutter1Strobe 2 · 1Hz 1 Hz 5–102 Shutter1Strobe 2 · 1Hz - 25Hz 1.24–24.8 Hz 103–103 Shutter1Strobe 2 · 25Hz 25 Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 Shutter1StrobePulse 4 · 1/2Hz - 25Hz 0.747–24.8 Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
7	Dimmer	0	0–254 Closed 255–255 Open
8	Dimmer Fine	0	Fine byte of Dimmer
9	Tilt	128	
10	Tilt Fine	0	Fine byte of Tilt
11	Zoom	0	0–127 Narrow 128–254 Mid 255–255 Wide
12	Control1	0	0–1 No Feature 2–3 Auto (default) 4–5 Silent 6–7 Theatre 8–11 Constant 12–24 Tilt speed : Fast (Default) 25–37 Tilt speed : Standard 38–42 Dimmer curve 1 (Default) 43–47 Dimmer curve 2 48–52 Dimmer curve 3 53–55 Dimmer curve 4 56–57 Dimmer curve 5 58–62 Raw color gamma : 1 63–67 Raw color gamma : 1_5 68–72 Raw color gamma : 2_2 (Default) 73–77 Color calibration : OFF (Default) 78–82 Color calibration : ON 83–87 Reverse mapping : OFF (Default) 88–92 Reverse mapping : ON 93–97 Pixel mapping : Disabled (Default) 98–102 Pixel mapping : ON RGB mode (__active 0sec__) 103–107 Pixel mapping : ON RGBW mode (__active 0sec__) 108–112 Zoom reposition : ON (Default) 113–167 Zoom reposition : OFF 168–188 PWM frequency : 600Hz 189–199 PWM frequency : 1200Hz 200–210 PWM frequency : 2000Hz (Default) 211–221 PWM frequency : 4000Hz 222–232 PWM frequency : 6000Hz 233–243 PWM frequency : 25000Hz 244–248 Display : OFF (Default) 249–253 Display : ON 254–255 Default Function Recall
13	Fixture Global Reset	0	0–25 NO USE 26–76 Zoom Reset 77–127 Tilt Reset 128–255 Reset ALL

Shape RGBW + pixel engine RGBW (continued)

Ch	Function	Default	DMX values
14	Shape Selection	0	0–5 Nomal 6–130 Static 131–255 Dynamic
15	Gobo	0	0–7 Effect 1 8–15 Effect 2 16–23 Effect 3 24–31 Effect 4 32–38 Effect 5 39–46 Effect 6 47–54 Effect 7 55–62 Effect 8 63–69 Effect 9 70–77 Effect 10 78–85 Effect 11 86–93 Effect 12 94–100 Effect 13 101–108 Effect 14 109–116 Effect 15 117–124 Effect 16 125–131 Effect 17 132–139 Effect 18 140–147 Effect 19 148–155 Effect 20 156–162 Effect 21 163–170 Effect 22 171–178 Effect 23 179–186 Effect 24 187–193 Effect 25 194–201 Effect 26 202–209 Effect 27 210–217 Effect 28 218–224 Effect 29 225–232 Effect 30 233–240 Effect 31 241–248 Effect 32 249–255 Effect 33
16	Gobo Rotation	0	0–119 >>> 120–124 > 125–134 STOP 135–254 < 255–255 <<<
17	Shape Fade	0	0–5 OFF(Cut Change) 6–129 Fade change : Fast 130–130 Fade change : Slow 131–254 Wake Change : Fast 255–255 Wake Change : Slow
18	Shutter / Strobe	252	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
19	Dimmer	0	0–254 0 255–255 100

Shape RGBW + pixel engine RGBW (continued)

Ch	Function	Default	DMX values
20	Shape Transition	0	0–0 Cut change 1–254 C ch - F ch 255–255 Fade change
21	Red	255	0–127 0 128–254 50 255–255 100
22	Green	255	0–127 0 128–254 50 255–255 100
23	Blue	255	0–127 0 128–254 50 255–255 100
24	White	0	0–127 0 128–254 50 255–255 100
25	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
26	Shutter / Strobe	104	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
27	Dimmer	0	0–254 0 255–255 100

Advanced

29 channels

Ch	Function	Default	DMX values
1	Layer1Red	255	0–127 0 128–254 50 255–255 100
2	Layer1Green	255	0–127 0 128–254 50 255–255 100
3	Layer1Blue	255	0–127 0 128–254 50 255–255 100
4	Layer1White	0	0–127 0 128–254 50 255–255 100

Advanced (continued)

Ch	Function	Default	DMX values
5	Layer1CTO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
6	Layer1Shutter	0	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
7	Layer1Dimmer	0	0–254 0 255–255 100
8	Shutter / Strobe	252	0–3 Close 4–4 Shutter1Strobe 2 · 1Hz 1 Hz 5–102 Shutter1Strobe 2 · 1Hz - 25Hz 1.24–24.8 Hz 103–103 Shutter1Strobe 2 · 25Hz 25 Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 Shutter1StrobePulse 4 · 1/2Hz - 25Hz 0.747–24.8 Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
9	Dimmer	0	0–254 0 255–255 100
10	Dimmer Fine	0	Fine byte of Dimmer
11	Tilt	128	0–127 107 128–254 Home 255–255 -107
12	Tilt Fine	0	Fine byte of Tilt
13	Zoom	0	0–127 Narrow 128–254 Mid 255–255 Wide

Advanced (continued)

Ch	Function	Default	DMX values
14	Control1	0	0–1 No Feature 2–3 Auto (default) 4–5 Silent 6–7 Theatre 8–11 Constant 12–24 Tilt speed : Fast (Default) 25–37 Tilt speed : Standard 38–42 Dimmer curve 1 (Default) 43–47 Dimmer curve 2 48–52 Dimmer curve 3 53–55 Dimmer curve 4 56–57 Dimmer curve 5 58–62 Raw color gamma : 1 63–67 Raw color gamma : 1_5 68–72 Raw color gamma : 2_2 (Default) 73–77 Color calibration : OFF (Default) 78–82 Color calibration : ON 83–87 Reverse mapping : OFF (Default) 88–92 Reverse mapping : ON 93–97 Pixel mapping : Disabled (Default) 98–102 Pixel mapping : ON RGB mode (__active 0sec__) 103–107 Pixel mapping : ON RGBW mode (__active 0sec__) 108–112 Zoom reposition : ON (Default) 113–167 Zoom reposition : OFF 168–188 PWM frequency : 600Hz 189–199 PWM frequency : 1200Hz 200–210 PWM frequency : 2000Hz (Default) 211–221 PWM frequency : 4000Hz 222–232 PWM frequency : 6000Hz 233–243 PWM frequency : 25000Hz 244–248 Display : OFF (Default) 249–253 Display : ON 254–255 Default Function Recall
15	Fixture Global Reset	0	0–25 NO USE 26–76 Zoom Reset 77–127 Tilt Reset 128–255 Reset ALL
16	Layer2Selection	0	0–5 Nomal 6–130 Static 131–255 Dynamic

Advanced (continued)

Ch	Function	Default	DMX values
17	Layer2Effect	0	0–7 Effect 1 8–15 Effect 2 16–23 Effect 3 24–31 Effect 4 32–38 Effect 5 39–46 Effect 6 47–54 Effect 7 55–62 Effect 8 63–69 Effect 9 70–77 Effect 10 78–85 Effect 11 86–93 Effect 12 94–100 Effect 13 101–108 Effect 14 109–116 Effect 15 117–124 Effect 16 125–131 Effect 17 132–139 Effect 18 140–147 Effect 19 148–155 Effect 20 156–162 Effect 21 163–170 Effect 22 171–178 Effect 23 179–186 Effect 24 187–193 Effect 25 194–201 Effect 26 202–209 Effect 27 210–217 Effect 28 218–224 Effect 29 225–232 Effect 30 233–240 Effect 31 241–248 Effect 32 249–255 Effect 33
18	Layer2Index Speed	0	0–63 0 64–119 90 120–124 > 125–127 STOP 128–134 180 135–191 < 192–254 270 255–255 360
19	Layer2Fade	0	0–5 OFF(Cut Change) 6–129 Fade change : Fast 130–130 Fade change : Slow 131–254 Wake Change : Fast 255–255 Wake Change : Slow
20	Layer2Shutter	252	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
21	Layer2Dimmer	0	0–254 0 255–255 100

Advanced (continued)

Ch	Function	Default	DMX values
22	Layer2Transition	0	0–0 Cut change 1–254 C ch - F ch 255–255 Fade change
23	Layer2Red	255	0–127 0 128–254 50 255–255 100
24	Layer2Green	255	0–127 0 128–254 50 255–255 100
25	Layer2Blue	255	0–127 0 128–254 50 255–255 100
26	Layer2White	0	0–127 0 128–254 50 255–255 100
27	Layer2CTO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
28	Layer3Shutter	252	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
29	Layer3Dimmer	0	0–254 0 255–255 100

Advanced + pixel engine RGB

29 channels

Ch	Function	Default	DMX values
1	Layer1Red	255	0–127 0 128–254 50 255–255 100
2	Layer1Green	255	0–127 0 128–254 50 255–255 100
3	Layer1Blue	255	0–127 0 128–254 50 255–255 100
4	Layer1White	0	0–127 0 128–254 50 255–255 100

Advanced + pixel engine RGB (continued)

Ch	Function	Default	DMX values
5	Layer1CTO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
6	Layer1Shutter	252	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
7	Layer1Dimmer	0	0–254 0 255–255 100
8	Shutter / Strobe	252	0–3 Close 4–4 Shutter1Strobe 2 · 1Hz 1 Hz 5–102 Shutter1Strobe 2 · 1Hz - 25Hz 1.24–24.8 Hz 103–103 Shutter1Strobe 2 · 25Hz 25 Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 Shutter1StrobePulse 4 · 1/2Hz - 25Hz 0.747–24.8 Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
9	Dimmer	0	0–254 0 255–255 100
10	Dimmer Fine	0	Fine byte of Dimmer
11	Tilt	128	0–127 107 128–254 Home 255–255 -107
12	Tilt Fine	0	Fine byte of Tilt
13	Zoom	0	0–127 Narrow 128–254 Mid 255–255 Wide

Advanced + pixel engine RGB (continued)

Ch	Function	Default	DMX values
14	Control1	0	0–1 No Feature 2–3 Auto (default) 4–5 Silent 6–7 Theatre 8–11 Constant 12–24 Tilt speed : Fast (Default) 25–37 Tilt speed : Standard 38–42 Dimmer curve 1 (Default) 43–47 Dimmer curve 2 48–52 Dimmer curve 3 53–55 Dimmer curve 4 56–57 Dimmer curve 5 58–62 Raw color gamma : 1 63–67 Raw color gamma : 1_5 68–72 Raw color gamma : 2_2 (Default) 73–77 Color calibration : OFF (Default) 78–82 Color calibration : ON 83–87 Reverse mapping : OFF (Default) 88–92 Reverse mapping : ON 93–97 Pixel mapping : Disabled (Default) 98–102 Pixel mapping : ON RGB mode (__active 0sec__) 103–107 Pixel mapping : ON RGBW mode (__active 0sec__) 108–112 Zoom reposition : ON (Default) 113–167 Zoom reposition : OFF 168–188 PWM frequency : 600Hz 189–199 PWM frequency : 1200Hz 200–210 PWM frequency : 2000Hz (Default) 211–221 PWM frequency : 4000Hz 222–232 PWM frequency : 6000Hz 233–243 PWM frequency : 25000Hz 244–248 Display : OFF (Default) 249–253 Display : ON 254–255 Default Function Recall
15	Fixture Global Reset	0	0–25 NO USE 26–76 Zoom Reset 77–127 Tilt Reset 128–255 Reset ALL
16	Layer2Selection	0	0–5 Nomal 6–130 Static 131–255 Dynamic

Advanced + pixel engine RGB (continued)

Ch	Function	Default	DMX values
17	Layer2Effect	0	0–7 Effect 1 8–15 Effect 2 16–23 Effect 3 24–31 Effect 4 32–38 Effect 5 39–46 Effect 6 47–54 Effect 7 55–62 Effect 8 63–69 Effect 9 70–77 Effect 10 78–85 Effect 11 86–93 Effect 12 94–100 Effect 13 101–108 Effect 14 109–116 Effect 15 117–124 Effect 16 125–131 Effect 17 132–139 Effect 18 140–147 Effect 19 148–155 Effect 20 156–162 Effect 21 163–170 Effect 22 171–178 Effect 23 179–186 Effect 24 187–193 Effect 25 194–201 Effect 26 202–209 Effect 27 210–217 Effect 28 218–224 Effect 29 225–232 Effect 30 233–240 Effect 31 241–248 Effect 32 249–255 Effect 33
18	Layer2Index Speed	0	0–63 0 64–119 90 120–124 > 125–127 STOP 128–134 180 135–191 < 192–254 270 255–255 360
19	Layer2Fade	0	0–5 OFF(Cut Change) 6–129 Fade change : Fast 130–130 Fade change : Slow 131–254 Wake Change : Fast 255–255 Wake Change : Slow
20	Layer2Shutter	252	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
21	Layer2Dimmer	0	0–254 0 255–255 100

Advanced + pixel engine RGB (continued)

Ch	Function	Default	DMX values
22	Layer2Transition	0	0–0 Cut change 1–254 C ch - F ch 255–255 Fade change
23	Layer2Red	255	0–127 0 128–254 50 255–255 100
24	Layer2Green	255	0–127 0 128–254 50 255–255 100
25	Layer2Blue	255	0–127 0 128–254 50 255–255 100
26	Layer2White	0	0–127 0 128–254 50 255–255 100
27	Layer2CTO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
28	Layer3Shutter	252	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
29	Layer3Dimmer	0	0–254 0 255–255 100

Advanced + pixel engine RGBW

29 channels

Ch	Function	Default	DMX values
1	Layer1Red	255	0–127 0 128–254 50 255–255 100
2	Layer1Green	255	0–127 0 128–254 50 255–255 100
3	Layer1Blue	255	0–127 0 128–254 50 255–255 100
4	Layer1White	0	0–127 0 128–254 50 255–255 100

Advanced + pixel engine RGBW (continued)

Ch	Function	Default	DMX values
5	Layer1CTO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
6	Layer1Shutter	104	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
7	Layer1Dimmer	0	0–254 0 255–255 100
8	Shutter / Strobe	104	0–3 Close 4–4 Shutter1Strobe 2 · 1Hz 1 Hz 5–102 Shutter1Strobe 2 · 1Hz - 25Hz 1.24–24.8 Hz 103–103 Shutter1Strobe 2 · 25Hz 25 Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 Shutter1StrobePulse 4 · 1/2Hz - 25Hz 0.747–24.8 Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
9	Dimmer	0	0–254 0 255–255 100
10	Dimmer Fine	0	Fine byte of Dimmer
11	Tilt	128	0–127 107 128–254 Home 255–255 -107
12	Tilt Fine	0	Fine byte of Tilt
13	Zoom	0	0–127 Narrow 128–254 Mid 255–255 Wide

Advanced + pixel engine RGBW (continued)

Ch	Function	Default	DMX values
14	Control1	0	0–1 No Feature 2–3 Auto (default) 4–5 Silent 6–7 Theatre 8–11 Constant 12–24 Tilt speed : Fast (Default) 25–37 Tilt speed : Standard 38–42 Dimmer curve 1 (Default) 43–47 Dimmer curve 2 48–52 Dimmer curve 3 53–55 Dimmer curve 4 56–57 Dimmer curve 5 58–62 Raw color gamma : 1 63–67 Raw color gamma : 1_5 68–72 Raw color gamma : 2_2 (Default) 73–77 Color calibration : OFF (Default) 78–82 Color calibration : ON 83–87 Reverse mapping : OFF (Default) 88–92 Reverse mapping : ON 93–97 Pixel mapping : Disabled (Default) 98–102 Pixel mapping : ON RGB mode (__active 0sec__) 103–107 Pixel mapping : ON RGBW mode (__active 0sec__) 108–112 Zoom reposition : ON (Default) 113–167 Zoom reposition : OFF 168–188 PWM frequency : 600Hz 189–199 PWM frequency : 1200Hz 200–210 PWM frequency : 2000Hz (Default) 211–221 PWM frequency : 4000Hz 222–232 PWM frequency : 6000Hz 233–243 PWM frequency : 25000Hz 244–248 Display : OFF (Default) 249–253 Display : ON 254–255 Default Function Recall
15	Fixture Global Reset	0	0–25 NO USE 26–76 Zoom Reset 77–127 Tilt Reset 128–255 Reset ALL
16	Layer2Selection	0	0–5 Nomal 6–130 Static 131–255 Dynamic

Advanced + pixel engine RGBW (continued)

Ch	Function	Default	DMX values
17	Layer2Effect	0	0–7 Effect 1 8–15 Effect 2 16–23 Effect 3 24–31 Effect 4 32–38 Effect 5 39–46 Effect 6 47–54 Effect 7 55–62 Effect 8 63–69 Effect 9 70–77 Effect 10 78–85 Effect 11 86–93 Effect 12 94–100 Effect 13 101–108 Effect 14 109–116 Effect 15 117–124 Effect 16 125–131 Effect 17 132–139 Effect 18 140–147 Effect 19 148–155 Effect 20 156–162 Effect 21 163–170 Effect 22 171–178 Effect 23 179–186 Effect 24 187–193 Effect 25 194–201 Effect 26 202–209 Effect 27 210–217 Effect 28 218–224 Effect 29 225–232 Effect 30 233–240 Effect 31 241–248 Effect 32 249–255 Effect 33
18	Layer2Index Speed	0	0–63 0 64–119 90 120–124 > 125–127 STOP 128–134 180 135–191 < 192–254 270 255–255 360
19	Layer2Fade	0	0–5 OFF(Cut Change) 6–129 Fade change : Fast 130–130 Fade change : Slow 131–254 Wake Change : Fast 255–255 Wake Change : Slow
20	Layer2Shutter	104	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
21	Layer2Dimmer	0	0–254 0 255–255 100

Advanced + pixel engine RGBW (continued)

Ch	Function	Default	DMX values
22	Layer2Transition	0	0–0 Cut change 1–254 C ch - F ch 255–255 Fade change
23	Layer2Red	255	0–127 0 128–254 50 255–255 100
24	Layer2Green	255	0–127 0 128–254 50 255–255 100
25	Layer2Blue	255	0–127 0 128–254 50 255–255 100
26	Layer2White	0	0–127 0 128–254 50 255–255 100
27	Layer2CTO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
28	Layer3Shutter	104	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
29	Layer3Dimmer	0	0–254 0 255–255 100

Shape RGBW 16bit

35 channels

Ch	Function	Default	DMX values
1	Red	255	0–127 0 128–254 50 255–255 100
2	Red Fine	255	Fine byte of Red
3	Green	255	0–127 0 128–254 50 255–255 100
4	Green Fine	255	Fine byte of Green
5	Blue	255	0–127 0 128–254 50 255–255 100
6	Blue Fine	255	Fine byte of Blue

Shape RGBW 16bit (continued)

Ch	Function	Default	DMX values
7	White	0	0–127 0 128–254 50 255–255 100
8	White Fine	0	Fine byte of White
9	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
10	Shutter / Strobe	252	0–3 Close 4–4 Shutter1Strobe 2 · 1Hz 1 Hz 5–102 Shutter1Strobe 2 · 1Hz - 25Hz 1.24–24.8 Hz 103–103 Shutter1Strobe 2 · 25Hz 25 Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 Shutter1StrobePulse 4 · 1/2Hz - 25Hz 0.747–24.8 Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
11	Dimmer	0	0–254 0 255–255 100
12	Dimmer Fine	0	Fine byte of Dimmer
13	Tilt	128	0–127 107 128–254 Home 255–255 -107
14	Tilt Fine	0	Fine byte of Tilt
15	Zoom	0	0–127 Narrow 128–254 Mid 255–255 Wide

Shape RGBW 16bit (continued)

Ch	Function	Default	DMX values
16	Control1	0	0–1 No Feature 2–3 Auto (default) 4–5 Silent 6–7 Theatre 8–11 Constant 12–24 Tilt speed : Fast (Default) 25–37 Tilt speed : Standard 38–42 Dimmer curve 1 (Default) 43–47 Dimmer curve 2 48–52 Dimmer curve 3 53–55 Dimmer curve 4 56–57 Dimmer curve 5 58–62 Raw color gamma : 1 63–67 Raw color gamma : 1_5 68–72 Raw color gamma : 2_2 (Default) 73–77 Color calibration : OFF (Default) 78–82 Color calibration : ON 83–87 Reverse mapping : OFF (Default) 88–92 Reverse mapping : ON 93–97 Pixel mapping : Disabled (Default) 98–102 Pixel mapping : ON RGB mode (__active 0sec__) 103–107 Pixel mapping : ON RGBW mode (__active 0sec__) 108–112 Zoom reposition : ON (Default) 113–167 Zoom reposition : OFF 168–188 PWM frequency : 600Hz 189–199 PWM frequency : 1200Hz 200–210 PWM frequency : 2000Hz (Default) 211–221 PWM frequency : 4000Hz 222–232 PWM frequency : 6000Hz 233–243 PWM frequency : 25000Hz 244–248 Display : OFF (Default) 249–253 Display : ON 254–255 Default Function Recall
17	Fixture Global Reset	0	0–25 NO USE 26–76 Zoom Reset 77–127 Tilt Reset 128–255 Reset ALL
18	Shape Selection	0	0–5 Nomal 6–130 Static 131–255 Dynamic

Shape RGBW 16bit (continued)

Ch	Function	Default	DMX values
19	Gobo	0	0–7 Effect 1 8–15 Effect 2 16–23 Effect 3 24–31 Effect 4 32–38 Effect 5 39–46 Effect 6 47–54 Effect 7 55–62 Effect 8 63–69 Effect 9 70–77 Effect 10 78–85 Effect 11 86–93 Effect 12 94–100 Effect 13 101–108 Effect 14 109–116 Effect 15 117–124 Effect 16 125–131 Effect 17 132–139 Effect 18 140–147 Effect 19 148–155 Effect 20 156–162 Effect 21 163–170 Effect 22 171–178 Effect 23 179–186 Effect 24 187–193 Effect 25 194–201 Effect 26 202–209 Effect 27 210–217 Effect 28 218–224 Effect 29 225–232 Effect 30 233–240 Effect 31 241–248 Effect 32 249–255 Effect 33
20	Gobo Rotation	0	0–119 >>> 120–124 > 125–134 STOP 135–254 < 255–255 <<<
21	Shape Fade	0	0–5 OFF(Cut Change) 6–129 Fade change : Fast 130–130 Fade change : Slow 131–254 Wake Change : Fast 255–255 Wake Change : Slow
22	Shutter / Strobe	252	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
23	Dimmer	0	0–254 0 255–255 100
24	Shape Transition	0	0–0 Cut change 1–254 C ch - F ch 255–255 Fade change

Shape RGBW 16bit (continued)

Ch	Function	Default	DMX values
25	Red	255	0–127 0 128–254 50 255–255 100
26	Red Fine	255	Fine byte of Red
27	Green	255	0–127 0 128–254 50 255–255 100
28	Green Fine	255	Fine byte of Green
29	Blue	255	0–127 0 128–254 50 255–255 100
30	Blue Fine	255	Fine byte of Blue
31	White	0	0–127 0 128–254 50 255–255 100
32	White Fine	0	Fine byte of White
33	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
34	Shutter / Strobe	252	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
35	Dimmer	0	0–254 0 255–255 100

Shape RGBW 16bit + pixel engine RGB

35 channels

Ch	Function	Default	DMX values
1	Red	255	0–127 0 128–254 50 255–255 100
2	Red Fine	255	Fine byte of Red
3	Green	255	0–127 0 128–254 50 255–255 100
4	Green Fine	255	Fine byte of Green
5	Blue	255	0–127 0 128–254 50 255–255 100

Shape RGBW 16bit + pixel engine RGB (continued)

Ch	Function	Default	DMX values
6	Blue Fine	255	Fine byte of Blue
7	White	0	0–127 0 128–254 50 255–255 100
8	White Fine	0	Fine byte of White
9	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
10	Shutter / Strobe	252	0–3 Close 4–4 Shutter1Strobe 2 · 1Hz 1 Hz 5–102 Shutter1Strobe 2 · 1Hz - 25Hz 1.24–24.8 Hz 103–103 Shutter1Strobe 2 · 25Hz 25 Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 Shutter1StrobePulse 4 · 1/2Hz - 25Hz 0.747–24.8 Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
11	Dimmer	0	0–254 0 255–255 100
12	Dimmer Fine	0	Fine byte of Dimmer
13	Tilt	128	0–127 107 128–254 Home 255–255 -107
14	Tilt Fine	0	Fine byte of Tilt
15	Zoom	0	0–127 Narrow 128–254 Mid 255–255 Wide

Shape RGBW 16bit + pixel engine RGB (continued)

Ch	Function	Default	DMX values
16	Control1	0	0–1 No Feature 2–3 Auto (default) 4–5 Silent 6–7 Theatre 8–11 Constant 12–24 Tilt speed : Fast (Default) 25–37 Tilt speed : Standard 38–42 Dimmer curve 1 (Default) 43–47 Dimmer curve 2 48–52 Dimmer curve 3 53–55 Dimmer curve 4 56–57 Dimmer curve 5 58–62 Raw color gamma : 1 63–67 Raw color gamma : 1_5 68–72 Raw color gamma : 2_2 (Default) 73–77 Color calibration : OFF (Default) 78–82 Color calibration : ON 83–87 Reverse mapping : OFF (Default) 88–92 Reverse mapping : ON 93–97 Pixel mapping : Disabled (Default) 98–102 Pixel mapping : ON RGB mode (__active 0sec__) 103–107 Pixel mapping : ON RGBW mode (__active 0sec__) 108–112 Zoom reposition : ON (Default) 113–167 Zoom reposition : OFF 168–188 PWM frequency : 600Hz 189–199 PWM frequency : 1200Hz 200–210 PWM frequency : 2000Hz (Default) 211–221 PWM frequency : 4000Hz 222–232 PWM frequency : 6000Hz 233–243 PWM frequency : 25000Hz 244–248 Display : OFF (Default) 249–253 Display : ON 254–255 Default Function Recall
17	Fixture Global Reset	0	0–25 NO USE 26–76 Zoom Reset 77–127 Tilt Reset 128–255 Reset ALL
18	Shape Selection	0	0–5 Nomal 6–130 Static 131–255 Dynamic

Shape RGBW 16bit + pixel engine RGB (continued)

Ch	Function	Default	DMX values
19	Gobo	0	0–7 Effect 1 8–15 Effect 2 16–23 Effect 3 24–31 Effect 4 32–38 Effect 5 39–46 Effect 6 47–54 Effect 7 55–62 Effect 8 63–69 Effect 9 70–77 Effect 10 78–85 Effect 11 86–93 Effect 12 94–100 Effect 13 101–108 Effect 14 109–116 Effect 15 117–124 Effect 16 125–131 Effect 17 132–139 Effect 18 140–147 Effect 19 148–155 Effect 20 156–162 Effect 21 163–170 Effect 22 171–178 Effect 23 179–186 Effect 24 187–193 Effect 25 194–201 Effect 26 202–209 Effect 27 210–217 Effect 28 218–224 Effect 29 225–232 Effect 30 233–240 Effect 31 241–248 Effect 32 249–255 Effect 33
20	Gobo Rotation	0	0–119 >>> 120–124 > 125–134 STOP 135–254 < 255–255 <<<
21	Shape Fade	0	0–5 OFF(Cut Change) 6–129 Fade change : Fast 130–130 Fade change : Slow 131–254 Wake Change : Fast 255–255 Wake Change : Slow
22	Shutter / Strobe	252	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
23	Dimmer	0	0–254 0 255–255 100
24	Shape Transition	0	0–0 Cut change 1–254 C ch - F ch 255–255 Fade change

Shape RGBW 16bit + pixel engine RGB (continued)

Ch	Function	Default	DMX values
25	Red	255	0–127 0 128–254 50 255–255 100
26	Red Fine	255	Fine byte of Red
27	Green	255	0–127 0 128–254 50 255–255 100
28	Green Fine	255	Fine byte of Green
29	Blue	255	0–127 0 128–254 50 255–255 100
30	Blue Fine	255	Fine byte of Blue
31	White	0	0–127 0 128–254 50 255–255 100
32	White Fine	0	Fine byte of White
33	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
34	Shutter / Strobe	252	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
35	Dimmer	0	0–254 0 255–255 100

Shape RGBW 16bit + pixel engine RGBW

35 channels

Ch	Function	Default	DMX values
1	Red	255	0–127 0 128–254 50 255–255 100
2	Red Fine	255	Fine byte of Red
3	Green	255	0–127 0 128–254 50 255–255 100
4	Green Fine	255	Fine byte of Green
5	Blue	255	0–127 0 128–254 50 255–255 100

Shape RGBW 16bit + pixel engine RGBW (continued)

Ch	Function	Default	DMX values
6	Blue Fine	255	Fine byte of Blue
7	White	0	0–127 0 128–254 50 255–255 100
8	White Fine	0	Fine byte of White
9	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
10	Shutter / Strobe	104	0–3 Close 4–4 Shutter1Strobe 2 · 1Hz 1 Hz 5–102 Shutter1Strobe 2 · 1Hz - 25Hz 1.24–24.8 Hz 103–103 Shutter1Strobe 2 · 25Hz 25 Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 Shutter1StrobePulse 4 · 1/2Hz - 25Hz 0.747–24.8 Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
11	Dimmer	0	0–254 0 255–255 100
12	Dimmer Fine	0	Fine byte of Dimmer
13	Tilt	128	0–127 107 128–254 Home 255–255 -107
14	Tilt Fine	0	Fine byte of Tilt
15	Zoom	0	0–127 Narrow 128–254 Mid 255–255 Wide

Shape RGBW 16bit + pixel engine RGBW (continued)

Ch	Function	Default	DMX values
16	Control1	0	0–1 No Feature 2–3 Auto (default) 4–5 Silent 6–7 Theatre 8–11 Constant 12–24 Tilt speed : Fast (Default) 25–37 Tilt speed : Standard 38–42 Dimmer curve 1 (Default) 43–47 Dimmer curve 2 48–52 Dimmer curve 3 53–55 Dimmer curve 4 56–57 Dimmer curve 5 58–62 Raw color gamma : 1 63–67 Raw color gamma : 1_5 68–72 Raw color gamma : 2_2 (Default) 73–77 Color calibration : OFF (Default) 78–82 Color calibration : ON 83–87 Reverse mapping : OFF (Default) 88–92 Reverse mapping : ON 93–97 Pixel mapping : Disabled (Default) 98–102 Pixel mapping : ON RGB mode (__active 0sec__) 103–107 Pixel mapping : ON RGBW mode (__active 0sec__) 108–112 Zoom reposition : ON (Default) 113–167 Zoom reposition : OFF 168–188 PWM frequency : 600Hz 189–199 PWM frequency : 1200Hz 200–210 PWM frequency : 2000Hz (Default) 211–221 PWM frequency : 4000Hz 222–232 PWM frequency : 6000Hz 233–243 PWM frequency : 25000Hz 244–248 Display : OFF (Default) 249–253 Display : ON 254–255 Default Function Recall
17	Fixture Global Reset	0	0–25 NO USE 26–76 Zoom Reset 77–127 Tilt Reset 128–255 Reset ALL
18	Shape Selection	0	0–5 Nomal 6–130 Static 131–255 Dynamic

Shape RGBW 16bit + pixel engine RGBW (continued)

Ch	Function	Default	DMX values
19	Gobo	0	0–7 Effect 1 8–15 Effect 2 16–23 Effect 3 24–31 Effect 4 32–38 Effect 5 39–46 Effect 6 47–54 Effect 7 55–62 Effect 8 63–69 Effect 9 70–77 Effect 10 78–85 Effect 11 86–93 Effect 12 94–100 Effect 13 101–108 Effect 14 109–116 Effect 15 117–124 Effect 16 125–131 Effect 17 132–139 Effect 18 140–147 Effect 19 148–155 Effect 20 156–162 Effect 21 163–170 Effect 22 171–178 Effect 23 179–186 Effect 24 187–193 Effect 25 194–201 Effect 26 202–209 Effect 27 210–217 Effect 28 218–224 Effect 29 225–232 Effect 30 233–240 Effect 31 241–248 Effect 32 249–255 Effect 33
20	Gobo Rotation	0	0–119 >>> 120–124 > 125–134 STOP 135–254 < 255–255 <<<
21	Shape Fade	0	0–5 OFF(Cut Change) 6–129 Fade change : Fast 130–130 Fade change : Slow 131–254 Wake Change : Fast 255–255 Wake Change : Slow
22	Shutter / Strobe	104	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
23	Dimmer	0	0–254 0 255–255 100
24	Shape Transition	0	0–0 Cut change 1–254 C ch - F ch 255–255 Fade change

Shape RGBW 16bit + pixel engine RGBW (continued)

Ch	Function	Default	DMX values
25	Red	255	0–127 0 128–254 50 255–255 100
26	Red Fine	255	Fine byte of Red
27	Green	255	0–127 0 128–254 50 255–255 100
28	Green Fine	255	Fine byte of Green
29	Blue	255	0–127 0 128–254 50 255–255 100
30	Blue Fine	255	Fine byte of Blue
31	White	0	0–127 0 128–254 50 255–255 100
32	White Fine	0	Fine byte of White
33	C TO	0	0–9 OFF 10–53 8000K 54–98 7000K 99–116 6000K 117–143 5600K 144–187 5000K 188–223 4000K 224–254 3200K 255–255 2700K
34	Shutter / Strobe	104	0–3 Close 4–4 1Hz 5–102 1Hz - 25Hz 103–103 25Hz 104–107 Open 108–108 Pulse 1/2Hz 109–206 1/2Hz - 25Hz 207–207 Pulse 25Hz 208–212 Open 213–225 Random Slow 226–238 Random Mid 239–251 Random Fast 252–255 Open
35	Dimmer	0	0–254 0 255–255 100