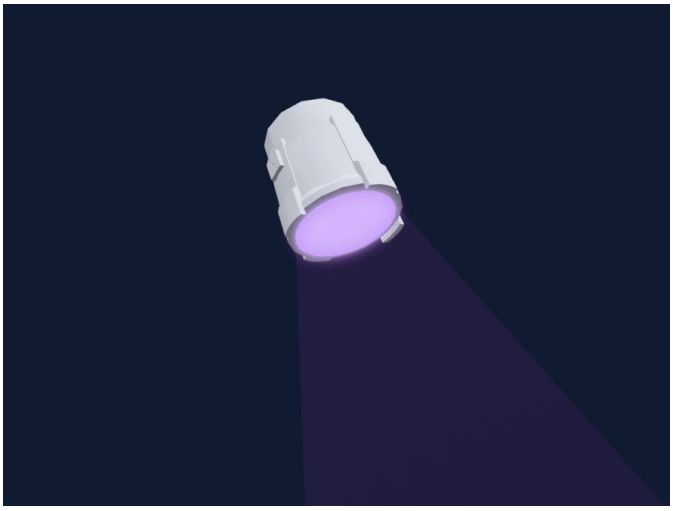
GLP

# X-PAR 12Z



| | |
|---|---|
| Manufacturer | **GLP** |
| Type | **Moving head** |
| DMX modes | **10** |
| DMX footprint | **4, 6, 8, 11, 16 channels** |
| Beam angle | **8-52°** |
| Tilt range | **260°** |
| Size (W × H × D) | **246 × 245 × 246 mm** |
| GDTF fixture type | **4BF5CA42-A2A0-4342-A774-00…** |

## Controls

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

## Safety-relevant functions

Fixture reset · Service functions

## DMX modes

| | |
|---|---|
| M6 - Easy | 4 ch |
| M4 - RGB | 6 ch |
| M4 - RGBL | 6 ch |
| M5 - White | 6 ch |
| M1 - Basic RGB | 8 ch |
| M1 - Basic RGBL | 8 ch |
| M2 - Standard RGB | 11 ch |
| M2 - Standard RGBL | 11 ch |
| M3 - Advanced RGB | 16 ch |
| M3 - Advanced RGBL | 16 ch |

## M6 - Easy

4 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–62 Closed<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 Open |
| 2 | Zoom | 128 | 0–127 wide<br>128–254 medium<br>255–255 narrow |
| 3 | Control1 | 0 | 0–9 Open Idle<br>10–15 IQ Service Commect<br>16–20 Compatibillity 18Z - 18Z<br>21–25 Compatibillity 18Z - 12Z<br>26–35 Compatibillity 18Z - 8Z<br>36–40 Color Mode: RGB (High Output)<br>41–45 Color Mode : RGB (Calibrated)<br>46–55 Color Mode : RGBL (RAW)<br>56–60 Dimmer Speed : Smooth<br>61–70 Dimmer Speed : Fast<br>71–75 Dimmer Curve : Linear<br>76–80 Dimmer Curve : Theatrical<br>81–85 Dimmer Curve : Square Law<br>86–95 Dimmer Curve : Inv Square Law<br>96–100 No DMX : Hold<br>101–105 No DMX : Shutter Closed<br>106–115 No DMX : Play Capt Scene<br>116–120 Display Backlight : Auto<br>121–125 Display Backlight : On<br>126–130 Display Backlight : Off<br>131–135 Save Preset 1<br>136–140 Save Preset 2<br>141–145 Save Preset 3<br>146–150 Load Preset 1<br>151–155 Load Preset 2<br>156–160 Load Preset 3<br>161–165 Load Setting Default<br>166–170 Zoom Invert On<br>171–175 Zoom Invert Off<br>176–180 Zoom Reset<br>181–185 Fixture Reset<br>186–190 Zoom Speed Normal<br>191–195 Zoom Speed Fast<br>196–200 PWM Rate : 600Hz<br>201–205 PWM Rate : 1200Hz<br>206–210 PWM Rate : 2200Hz<br>211–215 PWM Rate : 3000Hz<br>216–220 PWM Rate : 4800Hz<br>221–225 PWM Rate : 9600Hz<br>226–230 PWM Rate : 25kHz<br>231–235 Fan Mode Regulated<br>236–240 Fan Mode High<br>241–245 Fan Mode Medium<br>246–250 Fan Mode Low<br>251–255 Fixture Reset |

## M6 - Easy (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 4 | Color Wheel | 0 | 0–3 Open (wheel slot 1)<br>4–6 3200K (wheel slot 2)<br>7–9 4200K (wheel slot 3)<br>10–12 5600K (wheel slot 4)<br>13–15 6500K (wheel slot 5)<br>16–18 Medium Bastard Amber (004) (wheel slot 6)<br>19–21 Fire (019) (wheel slot 7)<br>22–24 Sunset Red (025) (wheel slot 8)<br>25–27 Bright Red (026) (wheel slot 9)<br>28–30 Medium Pink (036) (wheel slot 10)<br>31–33 Medium Purple (049) (wheel slot 11)<br>34–36 Lavender (058) (wheel slot 12)<br>37–39 Sky Blue (068) (wheel slot 13)<br>40–42 Lime Green (088) (wheel slot 14)<br>43–45 Moss Green (089) (wheel slot 15)<br>46–48 Dark Yellow Green (090) (wheel slot 16)<br>49–51 Light Amber (102) (wheel slot 17)<br>52–54 Straw (103) (wheel slot 18)<br>55–57 Primary Red (106) (wheel slot 19)<br>58–60 Dark Pink (111) (wheel slot 20)<br>61–63 Peacock Blue (115) (wheel slot 21)<br>64–66 Steel Blue (117) (wheel slot 22)<br>67–69 Light Blue (118) (wheel slot 23)<br>70–72 Filter Green (wheel slot 24)<br>73–75 Fern Green (122) (wheel slot 25)<br>76–78 Dark Green (124) (wheel slot 26)<br>79–81 Mauve (126) (wheel slot 27)<br>82–84 Bright Pink (128) (wheel slot 28)<br>85–87 Marine Blue (131) (wheel slot 29)<br>88–90 Medium Blue (132) (wheel slot 30)<br>91–93 Golden Amber (134) (wheel slot 31)<br>94–96 Deep Golden Amber (135) (wheel slot 32)<br>97–99 Pale Lavender (136) (wheel slot 33)<br>100–102 Special Lavender (137) (wheel slot 34)<br>103–105 Pale Green (138) (wheel slot 35)<br>106–108 Summer Blue (140) (wheel slot 36)<br>109–111 Bright Blue (141) (wheel slot 37)<br>112–114 Pale Navy Blue (143) (wheel slot 38)<br>115–117 Apricot (147) (wheel slot 39)<br>118–120 Bright Rose (148) (wheel slot 40)<br>121–123 Pale Gold (152) (wheel slot 41)<br>124–126 Pale Rose (154) (wheel slot 42)<br>127–129 Pink (157) (wheel slot 43)<br>130–132 Bastard Amber (162) (wheel slot 44)<br>133–135 Flame Red (164) (wheel slot 45)<br>136–138 Daylight Blue (165) (wheel slot 46)<br>139–141 Lilac Tint (169) (wheel slot 47)<br>142–144 Deep Lavender (170) (wheel slot 48)<br>145–147 Lagoon Blue (172) (wheel slot 49)<br>148–150 Dark Lavender (180) (wheel slot 50)<br>151–153 Light Red (182) (wheel slot 51)<br>154–156 Surprise Pink (194) (wheel slot 52)<br>157–159 Alice Blue (197) (wheel slot 53)<br>160–162 Full CT Blue (201) (wheel slot 54)<br>163–165 Half CT Blue (202) (wheel slot 55)<br>166–168 Quarter CT Blue (203) (wheel slot 56)<br>169–171 Full CT Orange (wheel slot 57)<br>172–174 Quarter CT Orange (wheel slot 58)<br>175–177 Fluorescent Green (219) (wheel slot 59)<br>178–180 Filter Minus Green (247) (wheel slot 60)<br>181–183 Half Minus Green (248) (wheel slot 61)<br>184–186 Three Quarter CT Blue (281) (wheel slot 62)<br>187–189 Three Quarter CT Orange (285) (wheel slot 63)<br>190–192 Glacier Blue (352) (wheel slot 64) |

## M4 - RGB

6 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Zoom | 128 | 0–127 wide<br>128–254 medium<br>255–255 narrow |
| 2 | Control1 | 0 | 0–9 Open Idle<br>10–15 IQ Service Commect<br>16–20 Compatibillity 18Z - 18Z<br>21–25 Compatibillity 18Z - 12Z<br>26–35 Compatibillity 18Z - 8Z<br>36–40 Color Mode: RGB (High Output)<br>41–45 Color Mode : RGB (Calibrated)<br>46–55 Color Mode : RGBL (RAW)<br>56–60 Dimmer Speed : Smooth<br>61–70 Dimmer Speed : Fast<br>71–75 Dimmer Curve : Linear<br>76–80 Dimmer Curve : Theatrical<br>81–85 Dimmer Curve : Square Law<br>86–95 Dimmer Curve : Inv Square Law<br>96–100 No DMX : Hold<br>101–105 No DMX : Shutter Closed<br>106–115 No DMX : Play Capt Scene<br>116–120 Display Backlight : Auto<br>121–125 Display Backlight : On<br>126–130 Display Backlight : Off<br>131–135 Save Preset 1<br>136–140 Save Preset 2<br>141–145 Save Preset 3<br>146–150 Load Preset 1<br>151–155 Load Preset 2<br>156–160 Load Preset 3<br>161–165 Load Setting Default<br>166–170 Zoom Invert On<br>171–175 Zoom Invert Off<br>176–180 Zoom Reset<br>181–185 Fixture Reset<br>186–190 Zoom Speed Normal<br>191–195 Zoom Speed Fast<br>196–200 PWM Rate : 600Hz<br>201–205 PWM Rate : 1200Hz<br>206–210 PWM Rate : 2200Hz<br>211–215 PWM Rate : 3000Hz<br>216–220 PWM Rate : 4800Hz<br>221–225 PWM Rate : 9600Hz<br>226–230 PWM Rate : 25kHz<br>231–235 Fan Mode Regulated<br>236–240 Fan Mode High<br>241–245 Fan Mode Medium<br>246–250 Fan Mode Low<br>251–255 Fixture Reset |
| 3 | Red | 0 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| 4 | Green | 0 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |

### M4 - RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **5** | Blue | 0 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **6** | No Feature | 0 | |

## M4 - RGBL

6 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Zoom | 128 | 0–127 wide<br>128–254 medium<br>255–255 narrow |
| **2** | Control1 | 0 | 0–9 Open Idle<br>10–15 IQ Service Commect<br>16–20 Compatibillity 18Z - 18Z<br>21–25 Compatibillity 18Z - 12Z<br>26–35 Compatibillity 18Z - 8Z<br>36–40 Color Mode: RGB (High Output)<br>41–45 Color Mode : RGB (Calibrated)<br>46–55 Color Mode : RGBL (RAW)<br>56–60 Dimmer Speed : Smooth<br>61–70 Dimmer Speed : Fast<br>71–75 Dimmer Curve : Linear<br>76–80 Dimmer Curve : Theatrical<br>81–85 Dimmer Curve : Square Law<br>86–95 Dimmer Curve : Inv Square Law<br>96–100 No DMX : Hold<br>101–105 No DMX : Shutter Closed<br>106–115 No DMX : Play Capt Scene<br>116–120 Display Backlight : Auto<br>121–125 Display Backlight : On<br>126–130 Display Backlight : Off<br>131–135 Save Preset 1<br>136–140 Save Preset 2<br>141–145 Save Preset 3<br>146–150 Load Preset 1<br>151–155 Load Preset 2<br>156–160 Load Preset 3<br>161–165 Load Setting Default<br>166–170 Zoom Invert On<br>171–175 Zoom Invert Off<br>176–180 Zoom Reset<br>181–185 Fixture Reset<br>186–190 Zoom Speed Normal<br>191–195 Zoom Speed Fast<br>196–200 PWM Rate : 600Hz<br>201–205 PWM Rate : 1200Hz<br>206–210 PWM Rate : 2200Hz<br>211–215 PWM Rate : 3000Hz<br>216–220 PWM Rate : 4800Hz<br>221–225 PWM Rate : 9600Hz<br>226–230 PWM Rate : 25kHz<br>231–235 Fan Mode Regulated<br>236–240 Fan Mode High<br>241–245 Fan Mode Medium<br>246–250 Fan Mode Low<br>251–255 Fixture Reset |

### M4 - RGBL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **3** | Red | 0 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **4** | Green | 0 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **5** | Blue | 0 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **6** | Color Add GY | 0 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |

## M5 - White

6 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Dimmer | 0 | 0–62 Closed<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 Open |
| **2** | Shutter / Strobe | 255 | 0–4 closed<br>5–9 Singel Flash<br>10–24 Sync Ramp-Up strobe · Slow > 0.033–0.403 Hz<br>25–38 Sync Ramp-Up strobe · medium >> 0.43–0.774 Hz<br>39–39 Sync Ramp-Up strobe · Fast >>> 0.8 Hz<br>40–54 Sync Ramp-down strobe · slow < 0.033–0.403 Hz<br>55–68 Sync Ramp-down strobe · medium << 0.43–0.774 Hz<br>69–69 Sync Ramp-down strobe · fast <<< 0.8 Hz<br>70–84 Sync Ramp-up-down strobe · slow>< 0.033–0.355 Hz<br>85–98 Sync Ramp-up-down strobe · medium >><<< 0.378–0....<br>99–99 Sync Ramp-up-down strobe · fast >>><<< 0.7 Hz<br>100–114 Double Flash · slow 1–2.93 Hz<br>115–128 Double Flash · medium 3.07–4.86 Hz<br>129–129 Double Flash · fast 5 Hz<br>130–144 Random Strobe · slow > 0.85–3.34 Hz<br>145–158 Random Strobe · medium >> 3.51–5.82 Hz<br>159–159 Random Strobe · fast >>> 6 Hz<br>160–169 Strobe 1Hz - 10Hz · 1Hz 1–1.9 Hz<br>170–179 Strobe 1Hz - 10Hz · 2Hz 2–2.9 Hz<br>180–189 Strobe 1Hz - 10Hz · 3Hz 3–3.9 Hz<br>190–199 Strobe 1Hz - 10Hz · 4Hz 4–4.9 Hz<br>200–209 Strobe 1Hz - 10Hz · 5Hz 5–5.9 Hz<br>210–219 Strobe 1Hz - 10Hz · 6Hz 6–6.9 Hz<br>220–229 Strobe 1Hz - 10Hz · 7Hz 7–7.9 Hz<br>230–239 Strobe 1Hz - 10Hz · 8Hz 8–8.9 Hz<br>240–249 Strobe 1Hz - 10Hz · 9Hz 9–9.9 Hz<br>250–250 Strobe 1Hz - 10Hz · 10Hz 10 Hz<br>251–255 open |

## M5 - White (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **3** | Zoom | 128 | 0–127 wide<br>128–254 medium<br>255–255 narrow |
| **4** | Control1 | 0 | 0–9 Open Idle<br>10–15 IQ Service Commect<br>16–20 Compatibillity 18Z - 18Z<br>21–25 Compatibillity 18Z - 12Z<br>26–35 Compatibillity 18Z - 8Z<br>36–40 Color Mode: RGB (High Output)<br>41–45 Color Mode : RGB (Calibrated)<br>46–55 Color Mode : RGBL (RAW)<br>56–60 Dimmer Speed : Smooth<br>61–70 Dimmer Speed : Fast<br>71–75 Dimmer Curve : Linear<br>76–80 Dimmer Curve : Theatrical<br>81–85 Dimmer Curve : Square Law<br>86–95 Dimmer Curve : Inv Square Law<br>96–100 No DMX : Hold<br>101–105 No DMX : Shutter Closed<br>106–115 No DMX : Play Capt Scene<br>116–120 Display Backlight : Auto<br>121–125 Display Backlight : On<br>126–130 Display Backlight : Off<br>131–135 Save Preset 1<br>136–140 Save Preset 2<br>141–145 Save Preset 3<br>146–150 Load Preset 1<br>151–155 Load Preset 2<br>156–160 Load Preset 3<br>161–165 Load Setting Default<br>166–170 Zoom Invert On<br>171–175 Zoom Invert Off<br>176–180 Zoom Reset<br>181–185 Fixture Reset<br>186–190 Zoom Speed Normal<br>191–195 Zoom Speed Fast<br>196–200 PWM Rate : 600Hz<br>201–205 PWM Rate : 1200Hz<br>206–210 PWM Rate : 2200Hz<br>211–215 PWM Rate : 3000Hz<br>216–220 PWM Rate : 4800Hz<br>221–225 PWM Rate : 9600Hz<br>226–230 PWM Rate : 25kHz<br>231–235 Fan Mode Regulated<br>236–240 Fan Mode High<br>241–245 Fan Mode Medium<br>246–250 Fan Mode Low<br>251–255 Fixture Reset |
| **5** | C TC | 0 | |
| **6** | Magenta Mode | 0 | 0–9 OFF - ( no correction )<br>10–10 plus Magenta 100 Prozent<br>11–124 plus Magenta 99 -> +1<br>125–140 neutral / no effect<br>141–254 plus green 1Pro -> 99Pro<br>255–255 full plus green 100Pro |

## M1 - Basic RGB

8 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–62 Closed<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 Open |
| 2 | Shutter / Strobe | 255 | 0–4 closed<br>5–9 Singel Flash<br>10–24 Sync Ramp-Up strobe · Slow > 0.033–0.403 Hz<br>25–38 Sync Ramp-Up strobe · medium >> 0.43–0.774 Hz<br>39–39 Sync Ramp-Up strobe · Fast >>> 0.8 Hz<br>40–54 Sync Ramp-down strobe · slow < 0.033–0.403 Hz<br>55–68 Sync Ramp-down strobe · medium << 0.43–0.774 Hz<br>69–69 Sync Ramp-down strobe · fast <<< 0.8 Hz<br>70–84 Sync Ramp-up-down strobe · slow>< 0.033–0.355 Hz<br>85–98 Sync Ramp-up-down strobe · medium >><<< 0.378–0....<br>99–99 Sync Ramp-up-down strobe · fast >>><<< 0.7 Hz<br>100–114 Double Flash · slow 1–2.93 Hz<br>115–128 Double Flash · medium 3.07–4.86 Hz<br>129–129 Double Flash · fast 5 Hz<br>130–144 Random Strobe · slow > 0.85–3.34 Hz<br>145–158 Random Strobe · medium >> 3.51–5.82 Hz<br>159–159 Random Strobe · fast >>> 6 Hz<br>160–169 Strobe 1Hz - 10Hz · 1Hz 1–1.9 Hz<br>170–179 Strobe 1Hz - 10Hz · 2Hz 2–2.9 Hz<br>180–189 Strobe 1Hz - 10Hz · 3Hz 3–3.9 Hz<br>190–199 Strobe 1Hz - 10Hz · 4Hz 4–4.9 Hz<br>200–209 Strobe 1Hz - 10Hz · 5Hz 5–5.9 Hz<br>210–219 Strobe 1Hz - 10Hz · 6Hz 6–6.9 Hz<br>220–229 Strobe 1Hz - 10Hz · 7Hz 7–7.9 Hz<br>230–239 Strobe 1Hz - 10Hz · 8Hz 8–8.9 Hz<br>240–249 Strobe 1Hz - 10Hz · 9Hz 9–9.9 Hz<br>250–250 Strobe 1Hz - 10Hz · 10Hz 10 Hz<br>251–255 open |
| 3 | Zoom | 128 | 0–127 wide<br>128–254 medium<br>255–255 narrow |

## M1 - Basic RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **4** | Control1 | 0 | 0–9 Open Idle<br>10–15 IQ Service Commect<br>16–20 Compatibillity 18Z - 18Z<br>21–25 Compatibillity 18Z - 12Z<br>26–35 Compatibillity 18Z - 8Z<br>36–40 Color Mode: RGB (High Output)<br>41–45 Color Mode : RGB (Calibrated)<br>46–55 Color Mode : RGBL (RAW)<br>56–60 Dimmer Speed : Smooth<br>61–70 Dimmer Speed : Fast<br>71–75 Dimmer Curve : Linear<br>76–80 Dimmer Curve : Theatrical<br>81–85 Dimmer Curve : Square Law<br>86–95 Dimmer Curve : Inv Square Law<br>96–100 No DMX : Hold<br>101–105 No DMX : Shutter Closed<br>106–115 No DMX : Play Capt Scene<br>116–120 Display Backlight : Auto<br>121–125 Display Backlight : On<br>126–130 Display Backlight : Off<br>131–135 Save Preset 1<br>136–140 Save Preset 2<br>141–145 Save Preset 3<br>146–150 Load Preset 1<br>151–155 Load Preset 2<br>156–160 Load Preset 3<br>161–165 Load Setting Default<br>166–170 Zoom Invert On<br>171–175 Zoom Invert Off<br>176–180 Zoom Reset<br>181–185 Fixture Reset<br>186–190 Zoom Speed Normal<br>191–195 Zoom Speed Fast<br>196–200 PWM Rate : 600Hz<br>201–205 PWM Rate : 1200Hz<br>206–210 PWM Rate : 2200Hz<br>211–215 PWM Rate : 3000Hz<br>216–220 PWM Rate : 4800Hz<br>221–225 PWM Rate : 9600Hz<br>226–230 PWM Rate : 25kHz<br>231–235 Fan Mode Regulated<br>236–240 Fan Mode High<br>241–245 Fan Mode Medium<br>246–250 Fan Mode Low<br>251–255 Fixture Reset |
| **5** | Red | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **6** | Green | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **7** | Blue | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **8** | No Feature | 0 | |

## M1 - Basic RGBL

8 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–62 Closed<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 Open |
| 2 | Shutter / Strobe | 255 | 0–4 closed<br>5–9 Singel Flash<br>10–24 Sync Ramp-Up strobe · Slow > 0.033–0.403 Hz<br>25–38 Sync Ramp-Up strobe · medium >> 0.43–0.774 Hz<br>39–39 Sync Ramp-Up strobe · Fast >>> 0.8 Hz<br>40–54 Sync Ramp-down strobe · slow < 0.033–0.403 Hz<br>55–68 Sync Ramp-down strobe · medium << 0.43–0.774 Hz<br>69–69 Sync Ramp-down strobe · fast <<< 0.8 Hz<br>70–84 Sync Ramp-up-down strobe · slow>< 0.033–0.355 Hz<br>85–98 Sync Ramp-up-down strobe · medium >><<< 0.378–0....<br>99–99 Sync Ramp-up-down strobe · fast >>><<< 0.7 Hz<br>100–114 Double Flash · slow 1–2.93 Hz<br>115–128 Double Flash · medium 3.07–4.86 Hz<br>129–129 Double Flash · fast 5 Hz<br>130–144 Random Strobe · slow > 0.85–3.34 Hz<br>145–158 Random Strobe · medium >> 3.51–5.82 Hz<br>159–159 Random Strobe · fast >>> 6 Hz<br>160–169 Strobe 1Hz - 10Hz · 1Hz 1–1.9 Hz<br>170–179 Strobe 1Hz - 10Hz · 2Hz 2–2.9 Hz<br>180–189 Strobe 1Hz - 10Hz · 3Hz 3–3.9 Hz<br>190–199 Strobe 1Hz - 10Hz · 4Hz 4–4.9 Hz<br>200–209 Strobe 1Hz - 10Hz · 5Hz 5–5.9 Hz<br>210–219 Strobe 1Hz - 10Hz · 6Hz 6–6.9 Hz<br>220–229 Strobe 1Hz - 10Hz · 7Hz 7–7.9 Hz<br>230–239 Strobe 1Hz - 10Hz · 8Hz 8–8.9 Hz<br>240–249 Strobe 1Hz - 10Hz · 9Hz 9–9.9 Hz<br>250–250 Strobe 1Hz - 10Hz · 10Hz 10 Hz<br>251–255 open |
| 3 | Zoom | 128 | 0–127 wide<br>128–254 medium<br>255–255 narrow |

## M1 - Basic RGBL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **4** | Control1 | 0 | 0–9 Open Idle<br>10–15 IQ Service Commect<br>16–20 Compatibillity 18Z - 18Z<br>21–25 Compatibillity 18Z - 12Z<br>26–35 Compatibillity 18Z - 8Z<br>36–40 Color Mode: RGB (High Output)<br>41–45 Color Mode : RGB (Calibrated)<br>46–55 Color Mode : RGBL (RAW)<br>56–60 Dimmer Speed : Smooth<br>61–70 Dimmer Speed : Fast<br>71–75 Dimmer Curve : Linear<br>76–80 Dimmer Curve : Theatrical<br>81–85 Dimmer Curve : Square Law<br>86–95 Dimmer Curve : Inv Square Law<br>96–100 No DMX : Hold<br>101–105 No DMX : Shutter Closed<br>106–115 No DMX : Play Capt Scene<br>116–120 Display Backlight : Auto<br>121–125 Display Backlight : On<br>126–130 Display Backlight : Off<br>131–135 Save Preset 1<br>136–140 Save Preset 2<br>141–145 Save Preset 3<br>146–150 Load Preset 1<br>151–155 Load Preset 2<br>156–160 Load Preset 3<br>161–165 Load Setting Default<br>166–170 Zoom Invert On<br>171–175 Zoom Invert Off<br>176–180 Zoom Reset<br>181–185 Fixture Reset<br>186–190 Zoom Speed Normal<br>191–195 Zoom Speed Fast<br>196–200 PWM Rate : 600Hz<br>201–205 PWM Rate : 1200Hz<br>206–210 PWM Rate : 2200Hz<br>211–215 PWM Rate : 3000Hz<br>216–220 PWM Rate : 4800Hz<br>221–225 PWM Rate : 9600Hz<br>226–230 PWM Rate : 25kHz<br>231–235 Fan Mode Regulated<br>236–240 Fan Mode High<br>241–245 Fan Mode Medium<br>246–250 Fan Mode Low<br>251–255 Fixture Reset |
| **5** | Red | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **6** | Green | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **7** | Blue | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |

### M1 - Basic RGBL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 8 | Color Add GY | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |

## M2 - Standard RGB

11 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–62 Closed<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 Open |
| 2 | Shutter / Strobe | 255 | 0–4 closed<br>5–9 Singel Flash<br>10–24 Sync Ramp-Up strobe · Slow > 0.033–0.403 Hz<br>25–38 Sync Ramp-Up strobe · medium >> 0.43–0.774 Hz<br>39–39 Sync Ramp-Up strobe · Fast >>> 0.8 Hz<br>40–54 Sync Ramp-down strobe · slow < 0.033–0.403 Hz<br>55–68 Sync Ramp-down strobe · medium << 0.43–0.774 Hz<br>69–69 Sync Ramp-down strobe · fast <<< 0.8 Hz<br>70–84 Sync Ramp-up-down strobe · slow>< 0.033–0.355 Hz<br>85–98 Sync Ramp-up-down strobe · medium >><<< 0.378–0....<br>99–99 Sync Ramp-up-down strobe · fast >>><<< 0.7 Hz<br>100–114 Double Flash · slow 1–2.93 Hz<br>115–128 Double Flash · medium 3.07–4.86 Hz<br>129–129 Double Flash · fast 5 Hz<br>130–144 Random Strobe · slow > 0.85–3.34 Hz<br>145–158 Random Strobe · medium >> 3.51–5.82 Hz<br>159–159 Random Strobe · fast >>> 6 Hz<br>160–169 Strobe 1Hz - 10Hz · 1Hz 1–1.9 Hz<br>170–179 Strobe 1Hz - 10Hz · 2Hz 2–2.9 Hz<br>180–189 Strobe 1Hz - 10Hz · 3Hz 3–3.9 Hz<br>190–199 Strobe 1Hz - 10Hz · 4Hz 4–4.9 Hz<br>200–209 Strobe 1Hz - 10Hz · 5Hz 5–5.9 Hz<br>210–219 Strobe 1Hz - 10Hz · 6Hz 6–6.9 Hz<br>220–229 Strobe 1Hz - 10Hz · 7Hz 7–7.9 Hz<br>230–239 Strobe 1Hz - 10Hz · 8Hz 8–8.9 Hz<br>240–249 Strobe 1Hz - 10Hz · 9Hz 9–9.9 Hz<br>250–250 Strobe 1Hz - 10Hz · 10Hz 10 Hz<br>251–255 open |
| 3 | Zoom | 128 | 0–127 Wide<br>128–254 medium<br>255–255 narrow |

## M2 - Standard RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **4** | Control1 | 0 | 0–9 Open Idle<br>10–15 IQ Service Commect<br>16–20 Compatibillity 18Z - 18Z<br>21–25 Compatibillity 18Z - 12Z<br>26–35 Compatibillity 18Z - 8Z<br>36–40 Color Mode: RGB (High Output)<br>41–45 Color Mode : RGB (Calibrated)<br>46–55 Color Mode : RGBL (RAW)<br>56–60 Dimmer Speed : Smooth<br>61–70 Dimmer Speed : Fast<br>71–75 Dimmer Curve : Linear<br>76–80 Dimmer Curve : Theatrical<br>81–85 Dimmer Curve : Square Law<br>86–95 Dimmer Curve : Inv Square Law<br>96–100 No DMX : Hold<br>101–105 No DMX : Shutter Closed<br>106–115 No DMX : Play Capt Scene<br>116–120 Display Backlight : Auto<br>121–125 Display Backlight : On<br>126–130 Display Backlight : Off<br>131–135 Save Preset 1<br>136–140 Save Preset 2<br>141–145 Save Preset 3<br>146–150 Load Preset 1<br>151–155 Load Preset 2<br>156–160 Load Preset 3<br>161–165 Load Setting Default<br>166–170 Zoom Invert On<br>171–175 Zoom Invert Off<br>176–180 Zoom Reset<br>181–185 Fixture Reset<br>186–190 Zoom Speed Normal<br>191–195 Zoom Speed Fast<br>196–200 PWM Rate : 600Hz<br>201–205 PWM Rate : 1200Hz<br>206–210 PWM Rate : 2200Hz<br>211–215 PWM Rate : 3000Hz<br>216–220 PWM Rate : 4800Hz<br>221–225 PWM Rate : 9600Hz<br>226–230 PWM Rate : 25kHz<br>231–235 Fan Mode Regulated<br>236–240 Fan Mode High<br>241–245 Fan Mode Medium<br>246–250 Fan Mode Low<br>251–255 Fixture Reset |
| **5** | Red | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **6** | Green | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **7** | Blue | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **8** | No Feature | 0 | |

## M2 - Standard RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 9 | Color Wheel | 0 | 0–3 Open (wheel slot 1)<br>4–6 3200K (wheel slot 2)<br>7–9 4200K (wheel slot 3)<br>10–12 5600K (wheel slot 4)<br>13–15 6500K (wheel slot 5)<br>16–18 Medium Bastard Amber (004) (wheel slot 6)<br>19–21 Fire (019) (wheel slot 7)<br>22–24 Sunset Red (025) (wheel slot 8)<br>25–27 Bright Red (026) (wheel slot 9)<br>28–30 Medium Pink (036) (wheel slot 10)<br>31–33 Medium Purple (049) (wheel slot 11)<br>34–36 Lavender (058) (wheel slot 12)<br>37–39 Sky Blue (068) (wheel slot 13)<br>40–42 Lime Green (088) (wheel slot 14)<br>43–45 Moss Green (089) (wheel slot 15)<br>46–48 Dark Yellow Green (090) (wheel slot 16)<br>49–51 Light Amber (102) (wheel slot 17)<br>52–54 Straw (103) (wheel slot 18)<br>55–57 Primary Red (106) (wheel slot 19)<br>58–60 Dark Pink (111) (wheel slot 20)<br>61–63 Peacock Blue (115) (wheel slot 21)<br>64–66 Steel Blue (117) (wheel slot 22)<br>67–69 Light Blue (118) (wheel slot 23)<br>70–72 Filter Green (wheel slot 24)<br>73–75 Fern Green (122) (wheel slot 25)<br>76–78 Dark Green (124) (wheel slot 26)<br>79–81 Mauve (126) (wheel slot 27)<br>82–84 Bright Pink (128) (wheel slot 28)<br>85–87 Marine Blue (131) (wheel slot 29)<br>88–90 Medium Blue (132) (wheel slot 30)<br>91–93 Golden Amber (134) (wheel slot 31)<br>94–96 Deep Golden Amber (135) (wheel slot 32)<br>97–99 Pale Lavender (136) (wheel slot 33)<br>100–102 Special Lavender (137) (wheel slot 34)<br>103–105 Pale Green (138) (wheel slot 35)<br>106–108 Summer Blue (140) (wheel slot 36)<br>109–111 Bright Blue (141) (wheel slot 37)<br>112–114 Pale Navy Blue (143) (wheel slot 38)<br>115–117 Apricot (147) (wheel slot 39)<br>118–120 Bright Rose (148) (wheel slot 40)<br>121–123 Pale Gold (152) (wheel slot 41)<br>124–126 Pale Rose (154) (wheel slot 42)<br>127–129 Pink (157) (wheel slot 43)<br>130–132 Bastard Amber (162) (wheel slot 44)<br>133–135 Flame Red (164) (wheel slot 45)<br>136–138 Daylight Blue (165) (wheel slot 46)<br>139–141 Lilac Tint (169) (wheel slot 47)<br>142–144 Deep Lavender (170) (wheel slot 48)<br>145–147 Lagoon Blue (172) (wheel slot 49)<br>148–150 Dark Lavender (180) (wheel slot 50)<br>151–153 Light Red (182) (wheel slot 51)<br>154–156 Surprise Pink (194) (wheel slot 52)<br>157–159 Alice Blue (197) (wheel slot 53)<br>160–162 Full CT Blue (201) (wheel slot 54)<br>163–165 Half CT Blue (202) (wheel slot 55)<br>166–168 Quarter CT Blue (203) (wheel slot 56)<br>169–171 Full CT Orange (wheel slot 57)<br>172–174 Quarter CT Orange (wheel slot 58)<br>175–177 Fluorescent Green (219) (wheel slot 59)<br>178–180 Filter Minus Green (247) (wheel slot 60)<br>181–183 Half Minus Green (248) (wheel slot 61)<br>184–186 Three Quarter CT Blue (281) (wheel slot 62)<br>187–189 Three Quarter CT Orange (285) (wheel slot 63)<br>190–192 Glacier Blue (352) (wheel slot 64) |

### M2 - Standard RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **10** | C TC | 0 | |
| **11** | Magenta Mode | 0 | 0–9 OFF - ( no correction )<br>10–10 plus Magenta 100 Prozent<br>11–124 plus Magenta 99 -> +1<br>125–140 neutral / no effect<br>141–254 plus green 1Pro -> 99Pro<br>255–255 full plus green 100Pro |

## M2 - Standard RGBL

11 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Dimmer | 0 | 0–62 Closed<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 Open |
| **2** | Shutter / Strobe | 255 | 0–4 closed<br>5–9 Singel Flash<br>10–24 Sync Ramp-Up strobe · Slow > 0.033–0.403 Hz<br>25–38 Sync Ramp-Up strobe · medium >> 0.43–0.774 Hz<br>39–39 Sync Ramp-Up strobe · Fast >>> 0.8 Hz<br>40–54 Sync Ramp-down strobe · slow < 0.033–0.403 Hz<br>55–68 Sync Ramp-down strobe · medium << 0.43–0.774 Hz<br>69–69 Sync Ramp-down strobe · fast <<< 0.8 Hz<br>70–84 Sync Ramp-up-down strobe · slow>< 0.033–0.355 Hz<br>85–98 Sync Ramp-up-down strobe · medium >><<< 0.378–0....<br>99–99 Sync Ramp-up-down strobe · fast >>><<< 0.7 Hz<br>100–114 Double Flash · slow 1–2.93 Hz<br>115–128 Double Flash · medium 3.07–4.86 Hz<br>129–129 Double Flash · fast 5 Hz<br>130–144 Random Strobe · slow > 0.85–3.34 Hz<br>145–158 Random Strobe · medium >> 3.51–5.82 Hz<br>159–159 Random Strobe · fast >>> 6 Hz<br>160–169 Strobe 1Hz - 10Hz · 1Hz 1–1.9 Hz<br>170–179 Strobe 1Hz - 10Hz · 2Hz 2–2.9 Hz<br>180–189 Strobe 1Hz - 10Hz · 3Hz 3–3.9 Hz<br>190–199 Strobe 1Hz - 10Hz · 4Hz 4–4.9 Hz<br>200–209 Strobe 1Hz - 10Hz · 5Hz 5–5.9 Hz<br>210–219 Strobe 1Hz - 10Hz · 6Hz 6–6.9 Hz<br>220–229 Strobe 1Hz - 10Hz · 7Hz 7–7.9 Hz<br>230–239 Strobe 1Hz - 10Hz · 8Hz 8–8.9 Hz<br>240–249 Strobe 1Hz - 10Hz · 9Hz 9–9.9 Hz<br>250–250 Strobe 1Hz - 10Hz · 10Hz 10 Hz<br>251–255 open |
| **3** | Zoom | 128 | 0–127 Wide<br>128–254 medium<br>255–255 narrow |

## M2 - Standard RGBL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **4** | Control1 | 0 | 0–9 Open Idle<br>10–15 IQ Service Commect<br>16–20 Compatibillity 18Z - 18Z<br>21–25 Compatibillity 18Z - 12Z<br>26–35 Compatibillity 18Z - 8Z<br>36–40 Color Mode: RGB (High Output)<br>41–45 Color Mode : RGB (Calibrated)<br>46–55 Color Mode : RGBL (RAW)<br>56–60 Dimmer Speed : Smooth<br>61–70 Dimmer Speed : Fast<br>71–75 Dimmer Curve : Linear<br>76–80 Dimmer Curve : Theatrical<br>81–85 Dimmer Curve : Square Law<br>86–95 Dimmer Curve : Inv Square Law<br>96–100 No DMX : Hold<br>101–105 No DMX : Shutter Closed<br>106–115 No DMX : Play Capt Scene<br>116–120 Display Backlight : Auto<br>121–125 Display Backlight : On<br>126–130 Display Backlight : Off<br>131–135 Save Preset 1<br>136–140 Save Preset 2<br>141–145 Save Preset 3<br>146–150 Load Preset 1<br>151–155 Load Preset 2<br>156–160 Load Preset 3<br>161–165 Load Setting Default<br>166–170 Zoom Invert On<br>171–175 Zoom Invert Off<br>176–180 Zoom Reset<br>181–185 Fixture Reset<br>186–190 Zoom Speed Normal<br>191–195 Zoom Speed Fast<br>196–200 PWM Rate : 600Hz<br>201–205 PWM Rate : 1200Hz<br>206–210 PWM Rate : 2200Hz<br>211–215 PWM Rate : 3000Hz<br>216–220 PWM Rate : 4800Hz<br>221–225 PWM Rate : 9600Hz<br>226–230 PWM Rate : 25kHz<br>231–235 Fan Mode Regulated<br>236–240 Fan Mode High<br>241–245 Fan Mode Medium<br>246–250 Fan Mode Low<br>251–255 Fixture Reset |
| **5** | Red | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **6** | Green | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **7** | Blue | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |

## M2 - Standard RGBL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 8 | Color Add GY | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |

## M2 - Standard RGBL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 9 | Color Wheel | 0 | 0–3 Open (wheel slot 1)<br>4–6 3200K (wheel slot 2)<br>7–9 4200K (wheel slot 3)<br>10–12 5600K (wheel slot 4)<br>13–15 6500K (wheel slot 5)<br>16–18 Medium Bastard Amber (004) (wheel slot 6)<br>19–21 Fire (019) (wheel slot 7)<br>22–24 Sunset Red (025) (wheel slot 8)<br>25–27 Bright Red (026) (wheel slot 9)<br>28–30 Medium Pink (036) (wheel slot 10)<br>31–33 Medium Purple (049) (wheel slot 11)<br>34–36 Lavender (058) (wheel slot 12)<br>37–39 Sky Blue (068) (wheel slot 13)<br>40–42 Lime Green (088) (wheel slot 14)<br>43–45 Moss Green (089) (wheel slot 15)<br>46–48 Dark Yellow Green (090) (wheel slot 16)<br>49–51 Light Amber (102) (wheel slot 17)<br>52–54 Straw (103) (wheel slot 18)<br>55–57 Primary Red (106) (wheel slot 19)<br>58–60 Dark Pink (111) (wheel slot 20)<br>61–63 Peacock Blue (115) (wheel slot 21)<br>64–66 Steel Blue (117) (wheel slot 22)<br>67–69 Light Blue (118) (wheel slot 23)<br>70–72 Filter Green (wheel slot 24)<br>73–75 Fern Green (122) (wheel slot 25)<br>76–78 Dark Green (124) (wheel slot 26)<br>79–81 Mauve (126) (wheel slot 27)<br>82–84 Bright Pink (128) (wheel slot 28)<br>85–87 Marine Blue (131) (wheel slot 29)<br>88–90 Medium Blue (132) (wheel slot 30)<br>91–93 Golden Amber (134) (wheel slot 31)<br>94–96 Deep Golden Amber (135) (wheel slot 32)<br>97–99 Pale Lavender (136) (wheel slot 33)<br>100–102 Special Lavender (137) (wheel slot 34)<br>103–105 Pale Green (138) (wheel slot 35)<br>106–108 Summer Blue (140) (wheel slot 36)<br>109–111 Bright Blue (141) (wheel slot 37)<br>112–114 Pale Navy Blue (143) (wheel slot 38)<br>115–117 Apricot (147) (wheel slot 39)<br>118–120 Bright Rose (148) (wheel slot 40)<br>121–123 Pale Gold (152) (wheel slot 41)<br>124–126 Pale Rose (154) (wheel slot 42)<br>127–129 Pink (157) (wheel slot 43)<br>130–132 Bastard Amber (162) (wheel slot 44)<br>133–135 Flame Red (164) (wheel slot 45)<br>136–138 Daylight Blue (165) (wheel slot 46)<br>139–141 Lilac Tint (169) (wheel slot 47)<br>142–144 Deep Lavender (170) (wheel slot 48)<br>145–147 Lagoon Blue (172) (wheel slot 49)<br>148–150 Dark Lavender (180) (wheel slot 50)<br>151–153 Light Red (182) (wheel slot 51)<br>154–156 Surprise Pink (194) (wheel slot 52)<br>157–159 Alice Blue (197) (wheel slot 53)<br>160–162 Full CT Blue (201) (wheel slot 54)<br>163–165 Half CT Blue (202) (wheel slot 55)<br>166–168 Quarter CT Blue (203) (wheel slot 56)<br>169–171 Full CT Orange (wheel slot 57)<br>172–174 Quarter CT Orange (wheel slot 58)<br>175–177 Fluorescent Green (219) (wheel slot 59)<br>178–180 Filter Minus Green (247) (wheel slot 60)<br>181–183 Half Minus Green (248) (wheel slot 61)<br>184–186 Three Quarter CT Blue (281) (wheel slot 62)<br>187–189 Three Quarter CT Orange (285) (wheel slot 63)<br>190–192 Glacier Blue (352) (wheel slot 64) |

### M2 - Standard RGBL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **10** | C TC | 0 | |
| **11** | Magenta Mode | 0 | 0–9 OFF - ( no correction )<br>10–10 plus Magenta 100 Prozent<br>11–124 plus Magenta 99 -> +1<br>125–140 neutral / no effect<br>141–254 plus green 1Pro -> 99Pro<br>255–255 full plus green 100Pro |

## M3 - Advanced RGB

16 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Dimmer | 0 | 0–62 Closed<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 Open |
| **2** | Dimmer Fine | 0 | Fine byte of Dimmer |
| **3** | Shutter / Strobe | 255 | 0–4 closed<br>5–9 Singel Flash<br>10–24 Sync Ramp-Up strobe · Slow > 0.033–0.403 Hz<br>25–38 Sync Ramp-Up strobe · medium >> 0.43–0.774 Hz<br>39–39 Sync Ramp-Up strobe · Fast >>> 0.8 Hz<br>40–54 Sync Ramp-down strobe · slow < 0.033–0.403 Hz<br>55–68 Sync Ramp-down strobe · medium << 0.43–0.774 Hz<br>69–69 Sync Ramp-down strobe · fast <<< 0.8 Hz<br>70–84 Sync Ramp-up-down strobe · slow>< 0.033–0.355 Hz<br>85–98 Sync Ramp-up-down strobe · medium >><<< 0.378–0....<br>99–99 Sync Ramp-up-down strobe · fast >>><<< 0.7 Hz<br>100–114 Double Flash · slow 1–2.93 Hz<br>115–128 Double Flash · medium 3.07–4.86 Hz<br>129–129 Double Flash · fast 5 Hz<br>130–144 Random Strobe · slow > 0.85–3.34 Hz<br>145–158 Random Strobe · medium >> 3.51–5.82 Hz<br>159–159 Random Strobe · fast >>> 6 Hz<br>160–169 Strobe 1Hz - 10Hz · 1Hz 1–1.9 Hz<br>170–179 Strobe 1Hz - 10Hz · 2Hz 2–2.9 Hz<br>180–189 Strobe 1Hz - 10Hz · 3Hz 3–3.9 Hz<br>190–199 Strobe 1Hz - 10Hz · 4Hz 4–4.9 Hz<br>200–209 Strobe 1Hz - 10Hz · 5Hz 5–5.9 Hz<br>210–219 Strobe 1Hz - 10Hz · 6Hz 6–6.9 Hz<br>220–229 Strobe 1Hz - 10Hz · 7Hz 7–7.9 Hz<br>230–239 Strobe 1Hz - 10Hz · 8Hz 8–8.9 Hz<br>240–249 Strobe 1Hz - 10Hz · 9Hz 9–9.9 Hz<br>250–250 Strobe 1Hz - 10Hz · 10Hz 10 Hz<br>251–255 open |
| **4** | Zoom | 128 | 0–127 Wide<br>128–254 medium<br>255–255 narrow |

## M3 - Advanced RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **5** | Control1 | 0 | 0–9 Open Idle<br>10–15 IQ Service Commect<br>16–20 Compatibillity 18Z - 18Z<br>21–25 Compatibillity 18Z - 12Z<br>26–35 Compatibillity 18Z - 8Z<br>36–40 Color Mode: RGB (High Output)<br>41–45 Color Mode : RGB (Calibrated)<br>46–55 Color Mode : RGBL (RAW)<br>56–60 Dimmer Speed : Smooth<br>61–70 Dimmer Speed : Fast<br>71–75 Dimmer Curve : Linear<br>76–80 Dimmer Curve : Theatrical<br>81–85 Dimmer Curve : Square Law<br>86–95 Dimmer Curve : Inv Square Law<br>96–100 No DMX : Hold<br>101–105 No DMX : Shutter Closed<br>106–115 No DMX : Play Capt Scene<br>116–120 Display Backlight : Auto<br>121–125 Display Backlight : On<br>126–130 Display Backlight : Off<br>131–135 Save Preset 1<br>136–140 Save Preset 2<br>141–145 Save Preset 3<br>146–150 Load Preset 1<br>151–155 Load Preset 2<br>156–160 Load Preset 3<br>161–165 Load Setting Default<br>166–170 Zoom Invert On<br>171–175 Zoom Invert Off<br>176–180 Zoom Reset<br>181–185 Fixture Reset<br>186–190 Zoom Speed Normal<br>191–195 Zoom Speed Fast<br>196–200 PWM Rate : 600Hz<br>201–205 PWM Rate : 1200Hz<br>206–210 PWM Rate : 2200Hz<br>211–215 PWM Rate : 3000Hz<br>216–220 PWM Rate : 4800Hz<br>221–225 PWM Rate : 9600Hz<br>226–230 PWM Rate : 25kHz<br>231–235 Fan Mode Regulated<br>236–240 Fan Mode High<br>241–245 Fan Mode Medium<br>246–250 Fan Mode Low<br>251–255 Fixture Reset |
| **6** | Red | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **7** | Red Fine | 255 | Fine byte of Red |
| **8** | Green | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **9** | Green Fine | 255 | Fine byte of Green |

## M3 - Advanced RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **10** | Blue | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **11** | Blue Fine | 255 | Fine byte of Blue |
| **12** | No Feature | 0 | |
| **13** | No Feature Fine | 0 | Fine byte of No Feature |

## M3 - Advanced RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **14** | Color Wheel | 0 | 0–3 Open (wheel slot 1)<br>4–6 3200K (wheel slot 2)<br>7–9 4200K (wheel slot 3)<br>10–12 5600K (wheel slot 4)<br>13–15 6500K (wheel slot 5)<br>16–18 Medium Bastard Amber (004) (wheel slot 6)<br>19–21 Fire (019) (wheel slot 7)<br>22–24 Sunset Red (025) (wheel slot 8)<br>25–27 Bright Red (026) (wheel slot 9)<br>28–30 Medium Pink (036) (wheel slot 10)<br>31–33 Medium Purple (049) (wheel slot 11)<br>34–36 Lavender (058) (wheel slot 12)<br>37–39 Sky Blue (068) (wheel slot 13)<br>40–42 Lime Green (088) (wheel slot 14)<br>43–45 Moss Green (089) (wheel slot 15)<br>46–48 Dark Yellow Green (090) (wheel slot 16)<br>49–51 Light Amber (102) (wheel slot 17)<br>52–54 Straw (103) (wheel slot 18)<br>55–57 Primary Red (106) (wheel slot 19)<br>58–60 Dark Pink (111) (wheel slot 20)<br>61–63 Peacock Blue (115) (wheel slot 21)<br>64–66 Steel Blue (117) (wheel slot 22)<br>67–69 Light Blue (118) (wheel slot 23)<br>70–72 Filter Green (wheel slot 24)<br>73–75 Fern Green (122) (wheel slot 25)<br>76–78 Dark Green (124) (wheel slot 26)<br>79–81 Mauve (126) (wheel slot 27)<br>82–84 Bright Pink (128) (wheel slot 28)<br>85–87 Marine Blue (131) (wheel slot 29)<br>88–90 Medium Blue (132) (wheel slot 30)<br>91–93 Golden Amber (134) (wheel slot 31)<br>94–96 Deep Golden Amber (135) (wheel slot 32)<br>97–99 Pale Lavender (136) (wheel slot 33)<br>100–102 Special Lavender (137) (wheel slot 34)<br>103–105 Pale Green (138) (wheel slot 35)<br>106–108 Summer Blue (140) (wheel slot 36)<br>109–111 Bright Blue (141) (wheel slot 37)<br>112–114 Pale Navy Blue (143) (wheel slot 38)<br>115–117 Apricot (147) (wheel slot 39)<br>118–120 Bright Rose (148) (wheel slot 40)<br>121–123 Pale Gold (152) (wheel slot 41)<br>124–126 Pale Rose (154) (wheel slot 42)<br>127–129 Pink (157) (wheel slot 43)<br>130–132 Bastard Amber (162) (wheel slot 44)<br>133–135 Flame Red (164) (wheel slot 45)<br>136–138 Daylight Blue (165) (wheel slot 46)<br>139–141 Lilac Tint (169) (wheel slot 47)<br>142–144 Deep Lavender (170) (wheel slot 48)<br>145–147 Lagoon Blue (172) (wheel slot 49)<br>148–150 Dark Lavender (180) (wheel slot 50)<br>151–153 Light Red (182) (wheel slot 51)<br>154–156 Surprise Pink (194) (wheel slot 52)<br>157–159 Alice Blue (197) (wheel slot 53)<br>160–162 Full CT Blue (201) (wheel slot 54)<br>163–165 Half CT Blue (202) (wheel slot 55)<br>166–168 Quarter CT Blue (203) (wheel slot 56)<br>169–171 Full CT Orange (wheel slot 57)<br>172–174 Quarter CT Orange (wheel slot 58)<br>175–177 Fluorescent Green (219) (wheel slot 59)<br>178–180 Filter Minus Green (247) (wheel slot 60)<br>181–183 Half Minus Green (248) (wheel slot 61)<br>184–186 Three Quarter CT Blue (281) (wheel slot 62)<br>187–189 Three Quarter CT Orange (285) (wheel slot 63)<br>190–192 Glacier Blue (352) (wheel slot 64) |

### M3 - Advanced RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **15** | C TC | 0 | |
| **16** | Magenta Mode | 0 | 0–9 OFF - ( no correction )<br>10–10 plus Magenta 100 Prozent<br>11–124 plus Magenta 99 -> +1<br>125–140 neutral / no effect<br>141–254 plus green 1Pro -> 99Pro<br>255–255 full plus green 100Pro |

## M3 - Advanced RGBL

16 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Dimmer | 0 | 0–62 Closed<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 Open |
| **2** | Dimmer Fine | 0 | Fine byte of Dimmer |
| **3** | Shutter / Strobe | 255 | 0–4 closed<br>5–9 Singel Flash<br>10–24 Sync Ramp-Up strobe · Slow > 0.033–0.403 Hz<br>25–38 Sync Ramp-Up strobe · medium >> 0.43–0.774 Hz<br>39–39 Sync Ramp-Up strobe · Fast >>> 0.8 Hz<br>40–54 Sync Ramp-down strobe · slow < 0.033–0.403 Hz<br>55–68 Sync Ramp-down strobe · medium << 0.43–0.774 Hz<br>69–69 Sync Ramp-down strobe · fast <<< 0.8 Hz<br>70–84 Sync Ramp-up-down strobe · slow>< 0.033–0.355 Hz<br>85–98 Sync Ramp-up-down strobe · medium >><<< 0.378–0....<br>99–99 Sync Ramp-up-down strobe · fast >>><<< 0.7 Hz<br>100–114 Double Flash · slow 1–2.93 Hz<br>115–128 Double Flash · medium 3.07–4.86 Hz<br>129–129 Double Flash · fast 5 Hz<br>130–144 Random Strobe · slow > 0.85–3.34 Hz<br>145–158 Random Strobe · medium >> 3.51–5.82 Hz<br>159–159 Random Strobe · fast >>> 6 Hz<br>160–169 Strobe 1Hz - 10Hz · 1Hz 1–1.9 Hz<br>170–179 Strobe 1Hz - 10Hz · 2Hz 2–2.9 Hz<br>180–189 Strobe 1Hz - 10Hz · 3Hz 3–3.9 Hz<br>190–199 Strobe 1Hz - 10Hz · 4Hz 4–4.9 Hz<br>200–209 Strobe 1Hz - 10Hz · 5Hz 5–5.9 Hz<br>210–219 Strobe 1Hz - 10Hz · 6Hz 6–6.9 Hz<br>220–229 Strobe 1Hz - 10Hz · 7Hz 7–7.9 Hz<br>230–239 Strobe 1Hz - 10Hz · 8Hz 8–8.9 Hz<br>240–249 Strobe 1Hz - 10Hz · 9Hz 9–9.9 Hz<br>250–250 Strobe 1Hz - 10Hz · 10Hz 10 Hz<br>251–255 open |
| **4** | Zoom | 128 | 0–127 Wide<br>128–254 medium<br>255–255 narrow |

## M3 - Advanced RGBL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **5** | Control1 | 0 | 0–9 Open Idle<br>10–15 IQ Service Commect<br>16–20 Compatibillity 18Z - 18Z<br>21–25 Compatibillity 18Z - 12Z<br>26–35 Compatibillity 18Z - 8Z<br>36–40 Color Mode: RGB (High Output)<br>41–45 Color Mode : RGB (Calibrated)<br>46–55 Color Mode : RGBL (RAW)<br>56–60 Dimmer Speed : Smooth<br>61–70 Dimmer Speed : Fast<br>71–75 Dimmer Curve : Linear<br>76–80 Dimmer Curve : Theatrical<br>81–85 Dimmer Curve : Square Law<br>86–95 Dimmer Curve : Inv Square Law<br>96–100 No DMX : Hold<br>101–105 No DMX : Shutter Closed<br>106–115 No DMX : Play Capt Scene<br>116–120 Display Backlight : Auto<br>121–125 Display Backlight : On<br>126–130 Display Backlight : Off<br>131–135 Save Preset 1<br>136–140 Save Preset 2<br>141–145 Save Preset 3<br>146–150 Load Preset 1<br>151–155 Load Preset 2<br>156–160 Load Preset 3<br>161–165 Load Setting Default<br>166–170 Zoom Invert On<br>171–175 Zoom Invert Off<br>176–180 Zoom Reset<br>181–185 Fixture Reset<br>186–190 Zoom Speed Normal<br>191–195 Zoom Speed Fast<br>196–200 PWM Rate : 600Hz<br>201–205 PWM Rate : 1200Hz<br>206–210 PWM Rate : 2200Hz<br>211–215 PWM Rate : 3000Hz<br>216–220 PWM Rate : 4800Hz<br>221–225 PWM Rate : 9600Hz<br>226–230 PWM Rate : 25kHz<br>231–235 Fan Mode Regulated<br>236–240 Fan Mode High<br>241–245 Fan Mode Medium<br>246–250 Fan Mode Low<br>251–255 Fixture Reset |
| **6** | Red | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **7** | Red Fine | 255 | Fine byte of Red |
| **8** | Green | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **9** | Green Fine | 255 | Fine byte of Green |

## M3 - Advanced RGBL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **10** | Blue | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **11** | Blue Fine | 255 | Fine byte of Blue |
| **12** | Color Add GY | 255 | 0–62 min<br>63–126 25%<br>127–190 50%<br>191–254 75%<br>255–255 max |
| **13** | Color Add GY Fine | 255 | Fine byte of Color Add GY |

## M3 - Advanced RGBL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **14** | Color Wheel | 0 | 0–3 Open (wheel slot 1)<br>4–6 3200K (wheel slot 2)<br>7–9 4200K (wheel slot 3)<br>10–12 5600K (wheel slot 4)<br>13–15 6500K (wheel slot 5)<br>16–18 Medium Bastard Amber (004) (wheel slot 6)<br>19–21 Fire (019) (wheel slot 7)<br>22–24 Sunset Red (025) (wheel slot 8)<br>25–27 Bright Red (026) (wheel slot 9)<br>28–30 Medium Pink (036) (wheel slot 10)<br>31–33 Medium Purple (049) (wheel slot 11)<br>34–36 Lavender (058) (wheel slot 12)<br>37–39 Sky Blue (068) (wheel slot 13)<br>40–42 Lime Green (088) (wheel slot 14)<br>43–45 Moss Green (089) (wheel slot 15)<br>46–48 Dark Yellow Green (090) (wheel slot 16)<br>49–51 Light Amber (102) (wheel slot 17)<br>52–54 Straw (103) (wheel slot 18)<br>55–57 Primary Red (106) (wheel slot 19)<br>58–60 Dark Pink (111) (wheel slot 20)<br>61–63 Peacock Blue (115) (wheel slot 21)<br>64–66 Steel Blue (117) (wheel slot 22)<br>67–69 Light Blue (118) (wheel slot 23)<br>70–72 Filter Green (wheel slot 24)<br>73–75 Fern Green (122) (wheel slot 25)<br>76–78 Dark Green (124) (wheel slot 26)<br>79–81 Mauve (126) (wheel slot 27)<br>82–84 Bright Pink (128) (wheel slot 28)<br>85–87 Marine Blue (131) (wheel slot 29)<br>88–90 Medium Blue (132) (wheel slot 30)<br>91–93 Golden Amber (134) (wheel slot 31)<br>94–96 Deep Golden Amber (135) (wheel slot 32)<br>97–99 Pale Lavender (136) (wheel slot 33)<br>100–102 Special Lavender (137) (wheel slot 34)<br>103–105 Pale Green (138) (wheel slot 35)<br>106–108 Summer Blue (140) (wheel slot 36)<br>109–111 Bright Blue (141) (wheel slot 37)<br>112–114 Pale Navy Blue (143) (wheel slot 38)<br>115–117 Apricot (147) (wheel slot 39)<br>118–120 Bright Rose (148) (wheel slot 40)<br>121–123 Pale Gold (152) (wheel slot 41)<br>124–126 Pale Rose (154) (wheel slot 42)<br>127–129 Pink (157) (wheel slot 43)<br>130–132 Bastard Amber (162) (wheel slot 44)<br>133–135 Flame Red (164) (wheel slot 45)<br>136–138 Daylight Blue (165) (wheel slot 46)<br>139–141 Lilac Tint (169) (wheel slot 47)<br>142–144 Deep Lavender (170) (wheel slot 48)<br>145–147 Lagoon Blue (172) (wheel slot 49)<br>148–150 Dark Lavender (180) (wheel slot 50)<br>151–153 Light Red (182) (wheel slot 51)<br>154–156 Surprise Pink (194) (wheel slot 52)<br>157–159 Alice Blue (197) (wheel slot 53)<br>160–162 Full CT Blue (201) (wheel slot 54)<br>163–165 Half CT Blue (202) (wheel slot 55)<br>166–168 Quarter CT Blue (203) (wheel slot 56)<br>169–171 Full CT Orange (wheel slot 57)<br>172–174 Quarter CT Orange (wheel slot 58)<br>175–177 Fluorescent Green (219) (wheel slot 59)<br>178–180 Filter Minus Green (247) (wheel slot 60)<br>181–183 Half Minus Green (248) (wheel slot 61)<br>184–186 Three Quarter CT Blue (281) (wheel slot 62)<br>187–189 Three Quarter CT Orange (285) (wheel slot 63)<br>190–192 Glacier Blue (352) (wheel slot 64) |

## M3 - Advanced RGBL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **15** | C TC | 0 | |
| **16** | Magenta Mode | 0 | 0–9 OFF - ( no correction )<br>10–10 plus Magenta 100 Prozent<br>11–124 plus Magenta 99 -> +1<br>125–140 neutral / no effect<br>141–254 plus green 1Pro -> 99Pro<br>255–255 full plus green 100Pro |