Robe Lighting

# Robin T1 Profile FS



| | |
|---|---|
| Manufacturer | **Robe Lighting** |
| Type | **Profile spot** |
| DMX modes | **5** |
| DMX footprint | **33, 49, 53 channels** |
| Beam angle | **7-49°** |
| Pan range | **540°** |
| Tilt range | **263.6°** |
| Size (W × H × D) | **278 × 535 × 257 mm** |
| GDTF fixture type | **4CE2C7A5-25E5-40FB-8769-56…** |

## Controls

Focus · Frost · Iris · Prism · Prism rotation · Zoom · CMY colour mixing · Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Pan and tilt · Movement speed · Animation wheel · Gobos · Gobo rotation

## Safety-relevant functions

Fixture reset · Service functions

## DMX modes

| | |
|---|---|
| Mode 2 - Reduced CMY | 33 ch |
| Mode 2 - Reduced RGB | 33 ch |
| Mode 1 - CMY | 49 ch |
| Mode 1 - RGB | 49 ch |
| Mode 3 - RGBAL | 53 ch |

## Mode 2 - Reduced CMY

33 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Pan | 128 | |
| 2 | Pan Fine | 0 | Fine byte of Pan |
| 3 | Tilt | 128 | |
| 4 | Tilt Fine | 0 | Fine byte of Tilt |
| 5 | Position MSpeed | 0 | 0–0 Standard mode<br>1–254 Max Speed Mode<br>255–255 Min Speed Mode |
| 6 | Control1 | 0 | 0–9 No function<br>10–14 Wired DMX<br>15–19 Wireless DMX<br>20–24 Display On<br>25–29 Display Off<br>30–39 NoFeature 1<br>40–44 PT mode: Speed<br>45–49 PT mode: Time<br>50–54 BO while PAN TILT moving: ON<br>55–59 BO while PAN TILT moving: OFF<br>60–64 BO while Gobo moving: ON<br>65–69 BO while Gobo moving: OFF<br>70–74 Fan mode Auto<br>75–79 Fan mode High<br>80–84 Quiet mode: Fans ON at blackout<br>85–89 Quiet mode: Fans OFF at blackout<br>90–94 Fans mode: CPC-Fans OFF<br>95–119 NoFeature 2<br>120–124 Parking position ON<br>125–129 Parking position OFF<br>130–139 Fixture reset (except pan/tilt)<br>140–149 PositionReset<br>150–159 NoFeature 3<br>160–169 Gobo and Effect wheel reset<br>170–179 No function<br>180–189 Zoom/focus/frost/prism reset<br>190–199 Iris /framing shutters/effect wheel reset<br>200–209 Total fixture reset<br>210–211 Green/Blue correction calibration<br>212–218 NoFeature 5<br>219–220 Gobo indexing: Maximum speed and shortcut<br>221–222 Gobo indexing: Follow speed and direction<br>223–224 Gobo indexing: Maximum speed and follow directi...<br>225–229 RoboSpot enabled<br>230–234 RoboSpot disabled except faders and PT<br>235–239 RoboSpot fully disabled<br>240–240 Disabled Quiet mode<br>241–255 Quiet mode min to max |

## Mode 2 - Reduced CMY (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **7** | Color Control | 1 | 0–29 NoFunction<br>30–34 Standard CTO 8000-2700K<br>35–39 Extended CTO 10000-1800K<br>40–44 Colour mixing mode: CMY (DMX mode 1 and 2 only)<br>45–49 Colour mixing mode: RGB (DMX mode 1 and 2 only)<br>50–54 Dimmer curve Square law<br>55–59 Dimmer curve Linear<br>60–79 NoFeature 1<br>80–84 Tungsten effect simulation (750W): On<br>85–89 Tungsten effect simulation (1000W): On<br>90–94 Tungsten effect simulation (1200W): On<br>95–99 Tungsten effect simulation (2000W): On<br>100–104 Tungsten effect simulation (2500W): On<br>105–109 Tungsten effect simulation: Off<br>110–114 Save user colour<br>115–119 Chromatic white On<br>120–124 Chromatic white Off<br>125–129 Light output stability On<br>130–134 Light output stability Off<br>135–139 Uniformity On<br>140–144 Uniformity Off<br>145–152 NoFeature 2<br>153–154 1800K/High intensity<br>155–156 2700K/High intensity<br>157–158 3200K/High intensity<br>159–160 4200K/High intensity<br>161–162 5600K/High intensity<br>163–164 8000K/High intensity<br>165–166 10000K/High intensity<br>167–168 1800K/High CRI<br>169–170 2700K/High CRI<br>171–172 3200K/High CRI<br>173–174 4200K/High CRI<br>175–176 5600K/High CRI<br>177–178 8000K/High CRI<br>179–180 10000K/High CRI<br>181–182 Save Green/Blue correction<br>183–255 NoFeature 3 |
| **8** | C RIMode | 0 | 0–254 CRI 80<br>255–255 CRI 90+ |
| **9** | Cyan | 0 | |
| **10** | Magenta | 0 | |
| **11** | Yellow | 0 | |
| **12** | C TO | 110 | 0–1 8000 K<br>2–64 7978 K - > 6622 K<br>65–65 6600 K<br>66–109 6578K - > 5622 K<br>110–110 5600 K<br>111–179 5580 K - > 4220 K<br>180–180 4200 K<br>181–229 4180 K - > 3220 K<br>230–230 3200 K<br>231–254 3180 K - > 2720 K<br>255–255 2700K |

## Mode 2 - Reduced CMY (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **13** | Animation Wheel1 | 0 | 0–19 Open<br>20–72 Proportional indexing min (wheel slot 1)<br>73–126 Proportional indexing center (wheel slot 1)<br>127–127 Proportional indexing max (wheel slot 1)<br>128–169 Ramping from open to full position max (wheel slo...<br>170–170 Ramping from open to full position min (wheel slo...<br>171–212 Ramping from open to half position max (wheel sl...<br>213–213 Ramping from open to half position min (wheel sl...<br>214–254 Ramp from half position to full position max (whe...<br>255–255 Ramp from half position to full position min (whee... |
| **14** | Animation Wheel1Pos | 128 | 0–0 No rotation<br>1–24 Fast to slow 1/7<br>25–49 Fast to slow 2/7<br>50–74 Fast to slow 3/7<br>75–99 Fast to slow 4/7<br>100–119 Fast to slow 5/7<br>120–124 Fast to slow 6/7<br>125–127 Fast to slow 7/7<br>128–128 No rotation middle<br>129–131 Slow to fast 1/7<br>132–136 Slow to fast 2/7<br>137–156 Slow to fast 3/7<br>157–181 Slow to fast 4/7<br>182–206 Slow to fast 5/7<br>207–232 Slow to fast 6/7<br>233–255 Slow to fast 7/7 |
| **15** | Gobo | 0 | 0–3 Open/hole (wheel slot 1)<br>4–7 Gobo 1 (wheel slot 2)<br>8–11 Gobo 2 (wheel slot 3)<br>12–15 Gobo 3 (wheel slot 4)<br>16–19 Gobo 4 (wheel slot 5)<br>20–23 Gobo 5 (wheel slot 6)<br>24–27 Gobo 6 (wheel slot 7)<br>28–31 Gobo 7 (wheel slot 8)<br>32–35 Gobo 1 - Rotation (wheel slot 2)<br>36–39 Gobo 2 - Rotation (wheel slot 3)<br>40–43 Gobo 3 - Rotation (wheel slot 4)<br>44–47 Gobo 4 - Rotation (wheel slot 5)<br>48–51 Gobo 5 - Rotation (wheel slot 6)<br>52–55 Gobo 6 - Rotation (wheel slot 7)<br>56–59 Gobo 7 - Rotation (wheel slot 8)<br>60–69 Gobo 1 - Shaking Index (wheel slot 2)<br>70–79 Gobo 2 - Shaking Index (wheel slot 3)<br>80–89 Gobo 3 - Shaking Index (wheel slot 4)<br>90–99 Gobo 4 - Shaking Index (wheel slot 5)<br>100–109 Gobo 5 - Shaking Index (wheel slot 6)<br>110–119 Gobo 6 - Shaking Index (wheel slot 7)<br>120–129 Gobo 7 - Shaking Index (wheel slot 8)<br>130–139 Gobo 1 - Shaking Rotation (wheel slot 2)<br>140–149 Gobo 2 - Shaking Rotation (wheel slot 3)<br>150–159 Gobo 3 - Shaking Rotation (wheel slot 4)<br>160–169 Gobo 4 - Shaking Rotation (wheel slot 5)<br>170–179 Gobo 5 - Shaking Rotation (wheel slot 6)<br>180–189 Gobo 6 - Shaking Rotation (wheel slot 7)<br>190–199 Gobo 7 - Shaking Rotation (wheel slot 8)<br>200–201 Open/hole (wheel slot 1)<br>202–218 Fast to slow - Fast<br>219–222 Fast to slow - Slow<br>223–242 Slow to fast - Slow<br>243–243 Slow to fast - Fast<br>244–249 Random gobo selection by audio control<br>250–255 Auto random gobo selection from fast to slow |

## Mode 2 - Reduced CMY (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **16** | Gobo Rotation | 128 | 0–0 Gobo indexing min<br>1–123 fast to slow - Fast<br>124–127 fast to slow - Slow<br>128–128 Gobo indexing center<br>129–231 Gobo indexing max<br>232–255 slow to fast - Fast |
| **17** | Prism | 0 | 0–19 Open position (hole) (wheel slot 1)<br>20–127 6 - facet rotating prism (wheel slot 2)<br>128–135 Prism/gobo macros (wheel slot 3)<br>136–143 Macro 2 (wheel slot 5)<br>144–151 Macro 3 (wheel slot 6)<br>152–159 Macro 4 (wheel slot 7)<br>160–167 Macro 5 (wheel slot 8)<br>168–175 Macro 6 (wheel slot 9)<br>176–183 Macro 7 (wheel slot 10)<br>184–191 Macro 8 (wheel slot 11)<br>192–199 Macro 9 (wheel slot 12)<br>200–207 Macro 10 (wheel slot 13)<br>208–215 Macro 11 (wheel slot 14)<br>216–223 Macro 12 (wheel slot 15)<br>224–231 Macro 13 (wheel slot 16)<br>232–239 Macro 14 (wheel slot 17)<br>240–247 Macro 15 (wheel slot 18)<br>248–255 Macro 16 (wheel slot 19) |
| **18** | Prism Rotation | 128 | 0–0 No rotation<br>1–24 Fast to slow 1/7<br>25–49 Fast to slow 2/7<br>50–74 Fast to slow 3/7<br>75–99 Fast to slow 4/7<br>100–119 Fast to slow 5/7<br>120–124 Fast to slow 6/7<br>125–127 Fast to slow 7/7<br>128–128 No rotation middle<br>129–131 Slow to fast 1/7<br>132–136 Slow to fast 2/7<br>137–156 Slow to fast 3/7<br>157–181 Slow to fast 4/7<br>182–206 Slow to fast 5/7<br>207–232 Slow to fast 6/7<br>233–255 Slow to fast 7/7 |
| **19** | Frost1 | 0 | 0–0 Open<br>1–50 Light Frost from 0% to 100%<br>51–53 100% Light frost<br>54–63 Pulse closing from slow to fast<br>64–73 Pulse opening from fast to slow<br>74–83 Ramping from fast to slow<br>84–86 Open<br>87–136 Medium Frost from 0% to 100%<br>137–139 100% Medium Frost<br>140–149 Pulse closing from slow to fast<br>150–159 Pulse opening from fast to slow<br>160–169 Ramping from fast to slow<br>170–172 Open<br>173–222 Combined Frost from 0% to 100%<br>223–225 100% Combined Frost<br>226–235 Pulse closing from slow to fast<br>236–245 Pulse opening from fast to slow<br>246–255 Ramping from fast to slow |

## Mode 2 - Reduced CMY (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **20** | Iris | 0 | 0–179 Open<br>180–191 Closed<br>192–194 Slow to fast 1/13<br>195–196 Slow to fast 2/13<br>197–198 Slow to fast 3/13<br>199–200 Slow to fast 4/13<br>201–202 Slow to fast 5/13<br>203–204 Slow to fast 6/13<br>205–206 Slow to fast 7/13<br>207–208 Slow to fast 8/13<br>209–210 Slow to fast 9/13<br>211–212 Slow to fast 10/13<br>213–214 Slow to fast 11/13<br>215–216 Slow t ofast 12/13<br>217–219 Slow to fast 13/13<br>220–221 Fast to slow 1/13<br>222–223 Fast to slow 2/13<br>224–225 Fast to slow 3/13<br>226–227 Fast to slow 4/13<br>228–229 Fast to slow 5/13<br>230–231 Fast to slow 6/13<br>232–233 Fast to slow 7/13<br>234–235 Fast to slow 8/13<br>236–237 Fast to slow 9/13<br>238–239 Fast to slow 10/13<br>240–241 Fast to slow 11/13<br>242–243 Fast to slow 12/13<br>244–247 Fast to slow 13/13<br>248–249 Random pulse opening fast<br>250–251 Random pulse opening slow<br>252–253 Random pulse closing fast<br>254–255 Random pulse closing slow |
| **21** | Zoom | 128 | 0–127 Zoom max<br>128–254 Zoom center<br>255–255 Zoom min |
| **22** | Focus | 128 | 0–127 far<br>128–254 center<br>255–255 near |
| **23** | Shaper Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **24** | Blade1A | 0 | |
| **25** | Blade1Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **26** | Blade4A | 0 | |
| **27** | Blade4Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **28** | Blade3A | 0 | |
| **29** | Blade3Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **30** | Blade2A | 0 | |
| **31** | Blade2Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |

### Mode 2 - Reduced CMY (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **32** | Shutter / Strobe | 32 | 0–31 Closed<br>32–63 Open<br>64–79 Strobe · Slow to fast 1/12 0.3–9.83 Hz<br>80–94 Strobe · Slow to fast 6/12 10.5–19.4 Hz<br>95–95 Strobe · Slow to fast 12/12 20 Hz<br>96–127 open<br>128–134 StrobePulseOpen · Slow to fast 1/7 0.1–0.26 Hz<br>135–140 StrobePulseOpen · Slow to fast 4/7 0.287–0.42 Hz<br>141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz<br>144–149 StrobePulseClose · Fast to slow 1/7 0.5–0.367 Hz<br>150–155 StrobePulseClose · Fast to slow 4/7 0.34–0.207 Hz<br>156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz<br>160–191 open<br>192–223 Random strobe from slow to fast<br>224–255 open |
| **33** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |

## Mode 2 - Reduced RGB

33 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Pan | 128 | |
| **2** | Pan Fine | 0 | Fine byte of Pan |
| **3** | Tilt | 128 | |
| **4** | Tilt Fine | 0 | Fine byte of Tilt |
| **5** | Position MSpeed | 0 | 0–0 Standard mode<br>1–254 Max Speed Mode<br>255–255 Min Speed Mode |

## Mode 2 - Reduced RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **6** | Control1 | 0 | 0–9 No function<br>10–14 Wired DMX<br>15–19 Wireless DMX<br>20–24 Display On<br>25–29 Display Off<br>30–39 NoFeature 1<br>40–44 PT mode: Speed<br>45–49 PT mode: Time<br>50–54 BO while PAN TILT moving: ON<br>55–59 BO while PAN TILT moving: OFF<br>60–64 BO while Gobo moving: ON<br>65–69 BO while Gobo moving: OFF<br>70–74 Fan mode Auto<br>75–79 Fan mode High<br>80–84 Quiet mode: Fans ON at blackout<br>85–89 Quiet mode: Fans OFF at blackout<br>90–94 Fans mode: CPC-Fans OFF<br>95–119 NoFeature 2<br>120–124 Parking position ON<br>125–129 Parking position OFF<br>130–139 Fixture reset (except pan/tilt)<br>140–149 PositionReset<br>150–159 NoFeature 3<br>160–169 Gobo and Effect wheel reset<br>170–179 No function<br>180–189 Zoom/focus/frost/prism reset<br>190–199 Iris /framing shutters/effect wheel reset<br>200–209 Total fixture reset<br>210–211 Green/Blue correction calibration<br>212–218 NoFeature 5<br>219–220 Gobo indexing: Maximum speed and shortcut<br>221–222 Gobo indexing: Follow speed and direction<br>223–224 Gobo indexing: Maximum speed and follow directi…<br>225–229 RoboSpot enabled<br>230–234 RoboSpot disabled except faders and PT<br>235–239 RoboSpot fully disabled<br>240–240 Disabled Quiet mode<br>241–255 Quiet mode min to max |

## Mode 2 - Reduced RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **7** | Color Control | 1 | 0–29 NoFunction<br>30–34 Standard CTO 8000-2700K<br>35–39 Extended CTO 10000-1800K<br>40–44 Colour mixing mode: CMY (DMX mode 1 and 2 only)<br>45–49 Colour mixing mode: RGB (DMX mode 1 and 2 only)<br>50–54 Dimmer curve Square law<br>55–59 Dimmer curve Linear<br>60–79 NoFeature 1<br>80–84 Tungsten effect simulation (750W): On<br>85–89 Tungsten effect simulation (1000W): On<br>90–94 Tungsten effect simulation (1200W): On<br>95–99 Tungsten effect simulation (2000W): On<br>100–104 Tungsten effect simulation (2500W): On<br>105–109 Tungsten effect simulation: Off<br>110–114 Save user colour<br>115–119 Chromatic white On<br>120–124 Chromatic white Off<br>125–129 Light output stability On<br>130–134 Light output stability Off<br>135–139 Uniformity On<br>140–144 Uniformity Off<br>145–152 NoFeature 2<br>153–154 1800K/High intensity<br>155–156 2700K/High intensity<br>157–158 3200K/High intensity<br>159–160 4200K/High intensity<br>161–162 5600K/High intensity<br>163–164 8000K/High intensity<br>165–166 10000K/High intensity<br>167–168 1800K/High CRI<br>169–170 2700K/High CRI<br>171–172 3200K/High CRI<br>173–174 4200K/High CRI<br>175–176 5600K/High CRI<br>177–178 8000K/High CRI<br>179–180 10000K/High CRI<br>181–182 Save Green/Blue correction<br>183–255 NoFeature 3 |
| **8** | C RIMode | 0 | 0–254 CRI 80<br>255–255 CRI 90+ |
| **9** | Red | 255 | |
| **10** | Green | 255 | |
| **11** | Blue | 255 | |
| **12** | C TO | 110 | 0–1 8000 K<br>2–64 7978 K - > 6622 K<br>65–65 6600 K<br>66–109 6578K - > 5622 K<br>110–110 5600 K<br>111–179 5580 K - > 4220 K<br>180–180 4200 K<br>181–229 4180 K - > 3220 K<br>230–230 3200 K<br>231–254 3180 K - > 2720 K<br>255–255 2700K |

## Mode 2 - Reduced RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **13** | Animation Wheel1 | 0 | 0–19 Open<br>20–72 Proportional indexing min (wheel slot 1)<br>73–126 Proportional indexing center (wheel slot 1)<br>127–127 Proportional indexing max (wheel slot 1)<br>128–169 Ramping from open to full position max (wheel slo...<br>170–170 Ramping from open to full position min (wheel slo...<br>171–212 Ramping from open to half position max (wheel sl...<br>213–213 Ramping from open to half position min (wheel sl...<br>214–254 Ramp from half position to full position max (whe...<br>255–255 Ramp from half position to full position min (whee... |
| **14** | Animation Wheel1Pos | 128 | 0–0 No rotation<br>1–24 Fast to slow 1/7<br>25–49 Fast to slow 2/7<br>50–74 Fast to slow 3/7<br>75–99 Fast to slow 4/7<br>100–119 Fast to slow 5/7<br>120–124 Fast to slow 6/7<br>125–127 Fast to slow 7/7<br>128–128 No rotation middle<br>129–131 Slow to fast 1/7<br>132–136 Slow to fast 2/7<br>137–156 Slow to fast 3/7<br>157–181 Slow to fast 4/7<br>182–206 Slow to fast 5/7<br>207–232 Slow to fast 6/7<br>233–255 Slow to fast 7/7 |
| **15** | Gobo | 0 | 0–3 Open/hole (wheel slot 1)<br>4–7 Gobo 1 (wheel slot 2)<br>8–11 Gobo 2 (wheel slot 3)<br>12–15 Gobo 3 (wheel slot 4)<br>16–19 Gobo 4 (wheel slot 5)<br>20–23 Gobo 5 (wheel slot 6)<br>24–27 Gobo 6 (wheel slot 7)<br>28–31 Gobo 7 (wheel slot 8)<br>32–35 Gobo 1 - Rotation (wheel slot 2)<br>36–39 Gobo 2 - Rotation (wheel slot 3)<br>40–43 Gobo 3 - Rotation (wheel slot 4)<br>44–47 Gobo 4 - Rotation (wheel slot 5)<br>48–51 Gobo 5 - Rotation (wheel slot 6)<br>52–55 Gobo 6 - Rotation (wheel slot 7)<br>56–59 Gobo 7 - Rotation (wheel slot 8)<br>60–69 Gobo 1 - Shaking Index (wheel slot 2)<br>70–79 Gobo 2 - Shaking Index (wheel slot 3)<br>80–89 Gobo 3 - Shaking Index (wheel slot 4)<br>90–99 Gobo 4 - Shaking Index (wheel slot 5)<br>100–109 Gobo 5 - Shaking Index (wheel slot 6)<br>110–119 Gobo 6 - Shaking Index (wheel slot 7)<br>120–129 Gobo 7 - Shaking Index (wheel slot 8)<br>130–139 Gobo 1 - Shaking Rotation (wheel slot 2)<br>140–149 Gobo 2 - Shaking Rotation (wheel slot 3)<br>150–159 Gobo 3 - Shaking Rotation (wheel slot 4)<br>160–169 Gobo 4 - Shaking Rotation (wheel slot 5)<br>170–179 Gobo 5 - Shaking Rotation (wheel slot 6)<br>180–189 Gobo 6 - Shaking Rotation (wheel slot 7)<br>190–199 Gobo 7 - Shaking Rotation (wheel slot 8)<br>200–201 Open/hole (wheel slot 1)<br>202–218 Fast to slow - Fast<br>219–222 Fast to slow - Slow<br>223–242 Slow to fast - Slow<br>243–243 Slow to fast - Fast<br>244–249 Random gobo selection by audio control<br>250–255 Auto random gobo selection from fast to slow |

## Mode 2 - Reduced RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **16** | Gobo Rotation | 128 | 0–0 Gobo indexing min<br>1–123 fast to slow - Fast<br>124–127 fast to slow - Slow<br>128–128 Gobo indexing center<br>129–231 Gobo indexing max<br>232–255 slow to fast - Fast |
| **17** | Prism | 0 | 0–19 Open position (hole) (wheel slot 1)<br>20–127 6 - facet rotating prism (wheel slot 2)<br>128–135 Prism/gobo macros (wheel slot 3)<br>136–143 Macro 2 (wheel slot 5)<br>144–151 Macro 3 (wheel slot 6)<br>152–159 Macro 4 (wheel slot 7)<br>160–167 Macro 5 (wheel slot 8)<br>168–175 Macro 6 (wheel slot 9)<br>176–183 Macro 7 (wheel slot 10)<br>184–191 Macro 8 (wheel slot 11)<br>192–199 Macro 9 (wheel slot 12)<br>200–207 Macro 10 (wheel slot 13)<br>208–215 Macro 11 (wheel slot 14)<br>216–223 Macro 12 (wheel slot 15)<br>224–231 Macro 13 (wheel slot 16)<br>232–239 Macro 14 (wheel slot 17)<br>240–247 Macro 15 (wheel slot 18)<br>248–255 Macro 16 (wheel slot 19) |
| **18** | Prism Rotation | 128 | 0–0 No rotation<br>1–24 Fast to slow 1/7<br>25–49 Fast to slow 2/7<br>50–74 Fast to slow 3/7<br>75–99 Fast to slow 4/7<br>100–119 Fast to slow 5/7<br>120–124 Fast to slow 6/7<br>125–127 Fast to slow 7/7<br>128–128 No rotation middle<br>129–131 Slow to fast 1/7<br>132–136 Slow to fast 2/7<br>137–156 Slow to fast 3/7<br>157–181 Slow to fast 4/7<br>182–206 Slow to fast 5/7<br>207–232 Slow to fast 6/7<br>233–255 Slow to fast 7/7 |
| **19** | Frost1 | 0 | 0–0 Open<br>1–50 Light Frost from 0% to 100%<br>51–53 100% Light frost<br>54–63 Pulse closing from slow to fast<br>64–73 Pulse opening from fast to slow<br>74–83 Ramping from fast to slow<br>84–86 Open<br>87–136 Medium Frost from 0% to 100%<br>137–139 100% Medium Frost<br>140–149 Pulse closing from slow to fast<br>150–159 Pulse opening from fast to slow<br>160–169 Ramping from fast to slow<br>170–172 Open<br>173–222 Combined Frost from 0% to 100%<br>223–225 100% Combined Frost<br>226–235 Pulse closing from slow to fast<br>236–245 Pulse opening from fast to slow<br>246–255 Ramping from fast to slow |

## Mode 2 - Reduced RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **20** | Iris | 0 | 0–179 Open<br>180–191 Closed<br>192–194 Slow to fast 1/13<br>195–196 Slow to fast 2/13<br>197–198 Slow to fast 3/13<br>199–200 Slow to fast 4/13<br>201–202 Slow to fast 5/13<br>203–204 Slow to fast 6/13<br>205–206 Slow to fast 7/13<br>207–208 Slow to fast 8/13<br>209–210 Slow to fast 9/13<br>211–212 Slow to fast 10/13<br>213–214 Slow to fast 11/13<br>215–216 Slow t ofast 12/13<br>217–219 Slow to fast 13/13<br>220–221 Fast to slow 1/13<br>222–223 Fast to slow 2/13<br>224–225 Fast to slow 3/13<br>226–227 Fast to slow 4/13<br>228–229 Fast to slow 5/13<br>230–231 Fast to slow 6/13<br>232–233 Fast to slow 7/13<br>234–235 Fast to slow 8/13<br>236–237 Fast to slow 9/13<br>238–239 Fast to slow 10/13<br>240–241 Fast to slow 11/13<br>242–243 Fast to slow 12/13<br>244–247 Fast to slow 13/13<br>248–249 Random pulse opening fast<br>250–251 Random pulse opening slow<br>252–253 Random pulse closing fast<br>254–255 Random pulse closing slow |
| **21** | Zoom | 128 | 0–127 Zoom max<br>128–254 Zoom center<br>255–255 Zoom min |
| **22** | Focus | 128 | 0–127 Focus far<br>128–254 Focus center<br>255–255 Focus near |
| **23** | Shaper Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **24** | Blade1A | 0 | |
| **25** | Blade1Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **26** | Blade4A | 0 | |
| **27** | Blade4Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **28** | Blade3A | 0 | |
| **29** | Blade3Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **30** | Blade2A | 0 | |
| **31** | Blade2Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |

### Mode 2 - Reduced RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **32** | Shutter / Strobe | 32 | 0–31 Closed<br>32–63 Open<br>64–79 Strobe · Slow to fast 1/12 0.3–9.83 Hz<br>80–94 Strobe · Slow to fast 6/12 10.5–19.4 Hz<br>95–95 Strobe · Slow to fast 12/12 20 Hz<br>96–127 open<br>128–134 StrobePulseOpen · Slow to fast 1/7 0.1–0.26 Hz<br>135–140 StrobePulseOpen · Slow to fast 4/7 0.287–0.42 Hz<br>141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz<br>144–149 StrobePulseClose · Fast to slow 1/7 0.5–0.367 Hz<br>150–155 StrobePulseClose · Fast to slow 4/7 0.34–0.207 Hz<br>156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz<br>160–191 open<br>192–223 Random strobe from slow to fast<br>224–255 open |
| **33** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |

## Mode 1 - CMY

49 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Pan | 128 | |
| **2** | Pan Fine | 0 | Fine byte of Pan |
| **3** | Tilt | 128 | |
| **4** | Tilt Fine | 0 | Fine byte of Tilt |
| **5** | Position MSpeed | 0 | 0–0 Standard mode<br>1–254 Max Speed Mode<br>255–255 Min Speed Mode |

## Mode 1 - CMY (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **6** | Control1 | 0 | 0–9 No function<br>10–14 Wired DMX<br>15–19 Wireless DMX<br>20–24 Display On<br>25–29 Display Off<br>30–39 NoFeature 1<br>40–44 PT mode: Speed<br>45–49 PT mode: Time<br>50–54 BO while PAN TILT moving: ON<br>55–59 BO while PAN TILT moving: OFF<br>60–64 BO while Gobo moving: ON<br>65–69 BO while Gobo moving: OFF<br>70–74 Fan mode Auto<br>75–79 Fan mode High<br>80–84 Quiet mode: Fans ON at blackout<br>85–89 Quiet mode: Fans OFF at blackout<br>90–94 Fans mode: CPC-Fans OFF<br>95–119 NoFeature 2<br>120–124 Parking position ON<br>125–129 Parking position OFF<br>130–139 Fixture reset (except pan/tilt)<br>140–149 PositionReset<br>150–159 NoFeature 3<br>160–169 Gobo and Effect wheel reset<br>170–179 No function<br>180–189 Zoom/focus/frost/prism reset<br>190–199 Iris /framing shutters/effect wheel reset<br>200–209 Total fixture reset<br>210–211 Green/Blue correction calibration<br>212–218 NoFeature 5<br>219–220 Gobo indexing: Maximum speed and shortcut<br>221–222 Gobo indexing: Follow speed and direction<br>223–224 Gobo indexing: Maximum speed and follow directi…<br>225–229 RoboSpot enabled<br>230–234 RoboSpot disabled except faders and PT<br>235–239 RoboSpot fully disabled<br>240–240 Disabled Quiet mode<br>241–255 Quiet mode min to max |
| **7** | L EDFrequency | 10 | 0–4 PWM frequency from Display menu<br>5–9 300 Hz<br>10–14 600 Hz<br>15–19 1200 Hz<br>20–24 2400 Hz<br>25–255 NoFeature |
| **8** | L EDFrequency Adjust | 128 | |

## Mode 1 - CMY (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **9** | Color Control | 1 | 0–29 NoFunction<br>30–34 Standard CTO 8000-2700K<br>35–39 Extended CTO 10000-1800K<br>40–44 Colour mixing mode: CMY (DMX mode 1 and 2 only)<br>45–49 Colour mixing mode: RGB (DMX mode 1 and 2 only)<br>50–54 Dimmer curve Square law<br>55–59 Dimmer curve Linear<br>60–79 NoFeature 1<br>80–84 Tungsten effect simulation (750W): On<br>85–89 Tungsten effect simulation (1000W): On<br>90–94 Tungsten effect simulation (1200W): On<br>95–99 Tungsten effect simulation (2000W): On<br>100–104 Tungsten effect simulation (2500W): On<br>105–109 Tungsten effect simulation: Off<br>110–114 Save user colour<br>115–119 Chromatic white On<br>120–124 Chromatic white Off<br>125–129 Light output stability On<br>130–134 Light output stability Off<br>135–139 Uniformity On<br>140–144 Uniformity Off<br>145–152 NoFeature 2<br>153–154 1800K/High intensity<br>155–156 2700K/High intensity<br>157–158 3200K/High intensity<br>159–160 4200K/High intensity<br>161–162 5600K/High intensity<br>163–164 8000K/High intensity<br>165–166 10000K/High intensity<br>167–168 1800K/High CRI<br>169–170 2700K/High CRI<br>171–172 3200K/High CRI<br>173–174 4200K/High CRI<br>175–176 5600K/High CRI<br>177–178 8000K/High CRI<br>179–180 10000K/High CRI<br>181–182 Save Green/Blue correction<br>183–255 NoFeature 3 |
| **10** | C RIMode | 0 | 0–254 CRI 80<br>255–255 CRI 90+ |
| **11** | Color Macro1 | 0 | |
| **12** | Cyan | 0 | |
| **13** | Cyan Fine | 0 | Fine byte of Cyan |
| **14** | Magenta | 0 | |
| **15** | Magenta Fine | 0 | Fine byte of Magenta |
| **16** | Yellow | 0 | |
| **17** | Yellow Fine | 0 | Fine byte of Yellow |
| **18** | C TO | 110 | 0–1 8000 K<br>2–64 7978 K - > 6622 K<br>65–65 6600 K<br>66–109 6578K - > 5622 K<br>110–110 5600 K<br>111–179 5580 K - > 4220 K<br>180–180 4200 K<br>181–229 4180 K - > 3220 K<br>230–230 3200 K<br>231–254 3180 K - > 2720 K<br>255–255 2700K |

## Mode 1 - CMY (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **19** | Tint | 128 | 0–0 Uncorrected white<br>1–127 Minus green - > Uncorrected white<br>128–128 Uncorrected white<br>129–254 Uncorrected white - > Plus green<br>255–255 Uncorrected white |
| **20** | Color Mix Mode | 0 | 0–9 Virtual colours (Virtual has priority)<br>10–19 Maximum mode (highest values have priority)<br>20–29 Minimum mode (lowest values have priority)<br>30–39 Multiply mode (multiply Virtual and Colour mix)<br>40–49 Addition mode (Virtual + Colour mix)<br>50–59 Subtraction mode (Virtual - Colour mix)<br>60–69 Inverted Subtraction mode (Colour mix - Virtual)<br>70–79 White Point Off<br>80–128 Reserved<br>129–129 Crossfade Virtual only<br>130–254 Crossfade between Virtual and Colour mix<br>255–255 Crossfade Color mix only |
| **21** | Gobo Wheel1MSpeed | 0 | |
| **22** | Focus MSpeed | 0 | 0–0 Standard mode<br>1–254 Max Speed Mode<br>255–255 Min Speed Mode |
| **23** | Animation Wheel1 | 0 | 0–19 Open<br>20–72 Proportional indexing min (wheel slot 1)<br>73–126 Proportional indexing center (wheel slot 1)<br>127–127 Proportional indexing max (wheel slot 1)<br>128–169 Ramping from open to full position max (wheel slo...<br>170–170 Ramping from open to full position min (wheel slo...<br>171–212 Ramping from open to half position max (wheel sl...<br>213–213 Ramping from open to half position min (wheel sl...<br>214–254 Ramp from half position to full position max (whe...<br>255–255 Ramp from half position to full position min (whee... |
| **24** | Animation Wheel1Pos | 128 | 0–0 No rotation<br>1–24 Fast to slow 1/7<br>25–49 Fast to slow 2/7<br>50–74 Fast to slow 3/7<br>75–99 Fast to slow 4/7<br>100–119 Fast to slow 5/7<br>120–124 Fast to slow 6/7<br>125–127 Fast to slow 7/7<br>128–128 No rotation middle<br>129–131 Slow to fast 1/7<br>132–136 Slow to fast 2/7<br>137–156 Slow to fast 3/7<br>157–181 Slow to fast 4/7<br>182–206 Slow to fast 5/7<br>207–232 Slow to fast 6/7<br>233–255 Slow to fast 7/7 |
| **25** | Animation Wheel1Select Effects | 0 | 0–7 No animation<br>8–9 Macro 1 (Focus=94)<br>10–11 Macro 2 (Focus=84)<br>12–13 Macro 3 (Focus=87)<br>14–15 Macro 4 (Focus=69)<br>16–17 Macro 5 (Focus=82)<br>18–19 Macro 6 (Focus=82)<br>20–21 Macro 7 (Focus=72)<br>22–23 Macro 8 (Focus=86)<br>24–25 Macro 9 (Focus=78)<br>26–27 Macro 10 (Focus=102)<br>28–255 NoFeature |

## Mode 1 - CMY (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **26** | Gobo | 0 | 0–3 Open/hole (wheel slot 1)<br>4–7 Gobo 1 (wheel slot 2)<br>8–11 Gobo 2 (wheel slot 3)<br>12–15 Gobo 3 (wheel slot 4)<br>16–19 Gobo 4 (wheel slot 5)<br>20–23 Gobo 5 (wheel slot 6)<br>24–27 Gobo 6 (wheel slot 7)<br>28–31 Gobo 7 (wheel slot 8)<br>32–35 Gobo 1 - Rotation (wheel slot 2)<br>36–39 Gobo 2 - Rotation (wheel slot 3)<br>40–43 Gobo 3 - Rotation (wheel slot 4)<br>44–47 Gobo 4 - Rotation (wheel slot 5)<br>48–51 Gobo 5 - Rotation (wheel slot 6)<br>52–55 Gobo 6 - Rotation (wheel slot 7)<br>56–59 Gobo 7 - Rotation (wheel slot 8)<br>60–69 Gobo 1 - Shaking Index (wheel slot 2)<br>70–79 Gobo 2 - Shaking Index (wheel slot 3)<br>80–89 Gobo 3 - Shaking Index (wheel slot 4)<br>90–99 Gobo 4 - Shaking Index (wheel slot 5)<br>100–109 Gobo 5 - Shaking Index (wheel slot 6)<br>110–119 Gobo 6 - Shaking Index (wheel slot 7)<br>120–129 Gobo 7 - Shaking Index (wheel slot 8)<br>130–139 Gobo 1 - Shaking Rotation (wheel slot 2)<br>140–149 Gobo 2 - Shaking Rotation (wheel slot 3)<br>150–159 Gobo 3 - Shaking Rotation (wheel slot 4)<br>160–169 Gobo 4 - Shaking Rotation (wheel slot 5)<br>170–179 Gobo 5 - Shaking Rotation (wheel slot 6)<br>180–189 Gobo 6 - Shaking Rotation (wheel slot 7)<br>190–199 Gobo 7 - Shaking Rotation (wheel slot 8)<br>200–201 Open/hole (wheel slot 1)<br>202–218 Fast to slow - Fast<br>219–222 Fast to slow - Slow<br>223–242 Slow to fast - Slow<br>243–243 Slow to fast - Fast<br>244–249 Random gobo selection by audio control<br>250–255 Auto random gobo selection from fast to slow |
| **27** | Gobo Rotation | 128 | 0–0 Gobo indexing min<br>1–123 Fast to slow - Fast<br>124–127 Fast to slow - Slow<br>128–128 Gobo indexing center<br>129–231 Slow to fast - Slow<br>232–255 Slow to fast - Fast |
| **28** | Gobo Rotation Fine | 0 | Fine byte of Gobo Rotation |
| **29** | Prism | 0 | 0–19 Open position (hole) (wheel slot 1)<br>20–127 6 - facet rotating prism (wheel slot 2)<br>128–135 Prism/gobo macros (wheel slot 3)<br>136–143 Macro 2 (wheel slot 5)<br>144–151 Macro 3 (wheel slot 6)<br>152–159 Macro 4 (wheel slot 7)<br>160–167 Macro 5 (wheel slot 8)<br>168–175 Macro 6 (wheel slot 9)<br>176–183 Macro 7 (wheel slot 10)<br>184–191 Macro 8 (wheel slot 11)<br>192–199 Macro 9 (wheel slot 12)<br>200–207 Macro 10 (wheel slot 13)<br>208–215 Macro 11 (wheel slot 14)<br>216–223 Macro 12 (wheel slot 15)<br>224–231 Macro 13 (wheel slot 16)<br>232–239 Macro 14 (wheel slot 17)<br>240–247 Macro 15 (wheel slot 18)<br>248–255 Macro 16 (wheel slot 19) |

## Mode 1 - CMY (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **30** | Prism Rotation | 128 | 0–0 No rotation<br>1–24 Fast to slow 1/7<br>25–49 Fast to slow 2/7<br>50–74 Fast to slow 3/7<br>75–99 Fast to slow 4/7<br>100–119 Fast to slow 5/7<br>120–124 Fast to slow 6/7<br>125–127 Fast to slow 7/7<br>128–128 No rotation middle<br>129–131 Slow to fast 1/7<br>132–136 Slow to fast 2/7<br>137–156 Slow to fast 3/7<br>157–181 Slow to fast 4/7<br>182–206 Slow to fast 5/7<br>207–232 Slow to fast 6/7<br>233–255 Slow to fast 7/7 |
| **31** | Frost1 | 0 | 0–0 Open<br>1–50 Light Frost from 0% to 100%<br>51–53 100% Light frost<br>54–63 Pulse closing from slow to fast<br>64–73 Pulse opening from fast to slow<br>74–83 Ramping from fast to slow<br>84–86 Open<br>87–136 Medium Frost from 0% to 100%<br>137–139 100% Medium Frost<br>140–149 Pulse closing from slow to fast<br>150–159 Pulse opening from fast to slow<br>160–169 Ramping from fast to slow<br>170–172 Open<br>173–222 Combined Frost from 0% to 100%<br>223–225 100% Combined Frost<br>226–235 Pulse closing from slow to fast<br>236–245 Pulse opening from fast to slow<br>246–255 Ramping from fast to slow |

## Mode 1 - CMY (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **32** | Iris | 0 | 0–179 Open<br>180–191 Closed<br>192–194 Slow to fast 1/13<br>195–196 Slow to fast 2/13<br>197–198 Slow to fast 3/13<br>199–200 Slow to fast 4/13<br>201–202 Slow to fast 5/13<br>203–204 Slow to fast 6/13<br>205–206 Slow to fast 7/13<br>207–208 Slow to fast 8/13<br>209–210 Slow to fast 9/13<br>211–212 Slow to fast 10/13<br>213–214 Slow to fast 11/13<br>215–216 Slow t ofast 12/13<br>217–219 Slow to fast 13/13<br>220–221 Fast to slow 1/13<br>222–223 Fast to slow 2/13<br>224–225 Fast to slow 3/13<br>226–227 Fast to slow 4/13<br>228–229 Fast to slow 5/13<br>230–231 Fast to slow 6/13<br>232–233 Fast to slow 7/13<br>234–235 Fast to slow 8/13<br>236–237 Fast to slow 9/13<br>238–239 Fast to slow 10/13<br>240–241 Fast to slow 11/13<br>242–243 Fast to slow 12/13<br>244–247 Fast to slow 13/13<br>248–249 Random pulse opening fast<br>250–251 Random pulse opening slow<br>252–253 Random pulse closing fast<br>254–255 Random pulse closing slow |
| **33** | Iris Fine | 0 | Fine byte of Iris |
| **34** | Zoom | 128 | |
| **35** | Zoom Fine | 0 | Fine byte of Zoom |
| **36** | Focus | 128 | |
| **37** | Focus Fine | 128 | Fine byte of Focus |
| **38** | Shaper Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **39** | Blade1A | 0 | |
| **40** | Blade1Rot | 128 | |
| **41** | Blade4A | 0 | |
| **42** | Blade4Rot | 128 | |
| **43** | Blade3A | 0 | |
| **44** | Blade3Rot | 128 | |
| **45** | Blade2A | 0 | |
| **46** | Blade2Rot | 128 | |

### Mode 1 - CMY (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **47** | Shutter / Strobe | 32 | 0–31 Closed<br>32–63 Open<br>64–79 Strobe · Slow to fast 1/12 0.3–9.83 Hz<br>80–94 Strobe · Slow to fast 6/12 10.5–19.4 Hz<br>95–95 Strobe · Slow to fast 12/12 20 Hz<br>96–127 open<br>128–134 StrobePulseOpen · Slow to fast 1/7 0.1–0.26 Hz<br>135–140 StrobePulseOpen · Slow to fast 4/7 0.287–0.42 Hz<br>141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz<br>144–149 StrobePulseClose · Fast to slow 1/7 0.5–0.367 Hz<br>150–155 StrobePulseClose · Fast to slow 4/7 0.34–0.207 Hz<br>156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz<br>160–191 open<br>192–223 Random strobe from slow to fast<br>224–255 open |
| **48** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **49** | Dimmer Fine | 0 | Fine byte of Dimmer |

## Mode 1 - RGB

49 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Pan | 128 | |
| **2** | Pan Fine | 0 | Fine byte of Pan |
| **3** | Tilt | 128 | |
| **4** | Tilt Fine | 0 | Fine byte of Tilt |
| **5** | Position MSpeed | 0 | 0–0 Standard mode<br>1–254 Max Speed Mode<br>255–255 Min Speed Mode |

## Mode 1 - RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **6** | Control1 | 0 | 0–9 No function<br>10–14 Wired DMX<br>15–19 Wireless DMX<br>20–24 Display On<br>25–29 Display Off<br>30–39 NoFeature 1<br>40–44 PT mode: Speed<br>45–49 PT mode: Time<br>50–54 BO while PAN TILT moving: ON<br>55–59 BO while PAN TILT moving: OFF<br>60–64 BO while Gobo moving: ON<br>65–69 BO while Gobo moving: OFF<br>70–74 Fan mode Auto<br>75–79 Fan mode High<br>80–84 Quiet mode: Fans ON at blackout<br>85–89 Quiet mode: Fans OFF at blackout<br>90–94 Fans mode: CPC-Fans OFF<br>95–119 NoFeature 2<br>120–124 Parking position ON<br>125–129 Parking position OFF<br>130–139 Fixture reset (except pan/tilt)<br>140–149 PositionReset<br>150–159 NoFeature 3<br>160–169 Gobo and Effect wheel reset<br>170–179 No function<br>180–189 Zoom/focus/frost/prism reset<br>190–199 Iris /framing shutters/effect wheel reset<br>200–209 Total fixture reset<br>210–211 Green/Blue correction calibration<br>212–218 NoFeature 5<br>219–220 Gobo indexing: Maximum speed and shortcut<br>221–222 Gobo indexing: Follow speed and direction<br>223–224 Gobo indexing: Maximum speed and follow directi…<br>225–229 RoboSpot enabled<br>230–234 RoboSpot disabled except faders and PT<br>235–239 RoboSpot fully disabled<br>240–240 Disabled Quiet mode<br>241–255 Quiet mode min to max |
| **7** | L EDFrequency | 10 | 0–4 PWM frequency from Display menu<br>5–9 300 Hz<br>10–14 600 Hz<br>15–19 1200 Hz<br>20–24 2400 Hz<br>25–255 NoFeature |
| **8** | L EDFrequency Adjust | 128 | |

## Mode 1 - RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **9** | Color Control | 1 | 0–29 NoFunction<br>30–34 Standard CTO 8000-2700K<br>35–39 Extended CTO 10000-1800K<br>40–44 Colour mixing mode: CMY (DMX mode 1 and 2 only)<br>45–49 Colour mixing mode: RGB (DMX mode 1 and 2 only)<br>50–54 Dimmer curve Square law<br>55–59 Dimmer curve Linear<br>60–79 NoFeature 1<br>80–84 Tungsten effect simulation (750W): On<br>85–89 Tungsten effect simulation (1000W): On<br>90–94 Tungsten effect simulation (1200W): On<br>95–99 Tungsten effect simulation (2000W): On<br>100–104 Tungsten effect simulation (2500W): On<br>105–109 Tungsten effect simulation: Off<br>110–114 Save user colour<br>115–119 Chromatic white On<br>120–124 Chromatic white Off<br>125–129 Light output stability On<br>130–134 Light output stability Off<br>135–139 Uniformity On<br>140–144 Uniformity Off<br>145–152 NoFeature 2<br>153–154 1800K/High intensity<br>155–156 2700K/High intensity<br>157–158 3200K/High intensity<br>159–160 4200K/High intensity<br>161–162 5600K/High intensity<br>163–164 8000K/High intensity<br>165–166 10000K/High intensity<br>167–168 1800K/High CRI<br>169–170 2700K/High CRI<br>171–172 3200K/High CRI<br>173–174 4200K/High CRI<br>175–176 5600K/High CRI<br>177–178 8000K/High CRI<br>179–180 10000K/High CRI<br>181–182 Save Green/Blue correction<br>183–255 NoFeature 3 |
| **10** | C RIMode | 0 | 0–254 CRI 80<br>255–255 CRI 90+ |
| **11** | Color Macro1 | 0 | |
| **12** | Red | 255 | |
| **13** | Red Fine | 255 | Fine byte of Red |
| **14** | Green | 255 | |
| **15** | Green Fine | 255 | Fine byte of Green |
| **16** | Blue | 255 | |
| **17** | Blue Fine | 255 | Fine byte of Blue |
| **18** | C TO | 110 | 0–1 8000 K<br>2–64 7978 K - > 6622 K<br>65–65 6600 K<br>66–109 6578K - > 5622 K<br>110–110 5600 K<br>111–179 5580 K - > 4220 K<br>180–180 4200 K<br>181–229 4180 K - > 3220 K<br>230–230 3200 K<br>231–254 3180 K - > 2720 K<br>255–255 2700K |

## Mode 1 - RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **19** | Tint | 128 | 0–0 Uncorrected white<br>1–127 Minus green - > Uncorrected white<br>128–128 Uncorrected white<br>129–254 Uncorrected white - > Plus green<br>255–255 Uncorrected white |
| **20** | Color Mix Mode | 0 | 0–9 Virtual colours (Virtual has priority)<br>10–19 Maximum mode (highest values have priority)<br>20–29 Minimum mode (lowest values have priority)<br>30–39 Multiply mode (multiply Virtual and Colour mix)<br>40–49 Addition mode (Virtual + Colour mix)<br>50–59 Subtraction mode (Virtual - Colour mix)<br>60–69 Inverted Subtraction mode (Colour mix - Virtual)<br>70–79 White Point Off<br>80–128 Reserved<br>129–129 Crossfade Virtual only<br>130–254 Crossfade between Virtual and Colour mix<br>255–255 Crossfade Color mix only |
| **21** | Gobo Wheel1MSpeed | 0 | |
| **22** | Focus MSpeed | 0 | 0–0 Standard mode<br>1–254 Max Speed Mode<br>255–255 Min Speed Mode |
| **23** | Animation Wheel1 | 0 | 0–19 Open<br>20–72 Proportional indexing min (wheel slot 1)<br>73–126 Proportional indexing center (wheel slot 1)<br>127–127 Proportional indexing max (wheel slot 1)<br>128–169 Ramping from open to full position max (wheel slo...<br>170–170 Ramping from open to full position min (wheel slo...<br>171–212 Ramping from open to half position max (wheel sl...<br>213–213 Ramping from open to half position min (wheel sl...<br>214–254 Ramp from half position to full position max (whe...<br>255–255 Ramp from half position to full position min (whee... |
| **24** | Animation Wheel1Pos | 128 | 0–0 No rotation<br>1–24 Fast to slow 1/7<br>25–49 Fast to slow 2/7<br>50–74 Fast to slow 3/7<br>75–99 Fast to slow 4/7<br>100–119 Fast to slow 5/7<br>120–124 Fast to slow 6/7<br>125–127 Fast to slow 7/7<br>128–128 No rotation middle<br>129–131 Slow to fast 1/7<br>132–136 Slow to fast 2/7<br>137–156 Slow to fast 3/7<br>157–181 Slow to fast 4/7<br>182–206 Slow to fast 5/7<br>207–232 Slow to fast 6/7<br>233–255 Slow to fast 7/7 |
| **25** | Animation Wheel1Select Effects | 0 | 0–7 No animation<br>8–9 Macro 1 (Focus=94)<br>10–11 Macro 2 (Focus=84)<br>12–13 Macro 3 (Focus=87)<br>14–15 Macro 4 (Focus=69)<br>16–17 Macro 5 (Focus=82)<br>18–19 Macro 6 (Focus=82)<br>20–21 Macro 7 (Focus=72)<br>22–23 Macro 8 (Focus=86)<br>24–25 Macro 9 (Focus=78)<br>26–27 Macro 10 (Focus=102)<br>28–255 Reserved |

## Mode 1 - RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **26** | Gobo | 0 | 0–3 Open/hole (wheel slot 1)<br>4–7 Gobo 1 (wheel slot 2)<br>8–11 Gobo 2 (wheel slot 3)<br>12–15 Gobo 3 (wheel slot 4)<br>16–19 Gobo 4 (wheel slot 5)<br>20–23 Gobo 5 (wheel slot 6)<br>24–27 Gobo 6 (wheel slot 7)<br>28–31 Gobo 7 (wheel slot 8)<br>32–35 Gobo 1 - Rotation (wheel slot 2)<br>36–39 Gobo 2 - Rotation (wheel slot 3)<br>40–43 Gobo 3 - Rotation (wheel slot 4)<br>44–47 Gobo 4 - Rotation (wheel slot 5)<br>48–51 Gobo 5 - Rotation (wheel slot 6)<br>52–55 Gobo 6 - Rotation (wheel slot 7)<br>56–59 Gobo 7 - Rotation (wheel slot 8)<br>60–69 Gobo 1 - Shaking Index (wheel slot 2)<br>70–79 Gobo 2 - Shaking Index (wheel slot 3)<br>80–89 Gobo 3 - Shaking Index (wheel slot 4)<br>90–99 Gobo 4 - Shaking Index (wheel slot 5)<br>100–109 Gobo 5 - Shaking Index (wheel slot 6)<br>110–119 Gobo 6 - Shaking Index (wheel slot 7)<br>120–129 Gobo 7 - Shaking Index (wheel slot 8)<br>130–139 Gobo 1 - Shaking Rotation (wheel slot 2)<br>140–149 Gobo 2 - Shaking Rotation (wheel slot 3)<br>150–159 Gobo 3 - Shaking Rotation (wheel slot 4)<br>160–169 Gobo 4 - Shaking Rotation (wheel slot 5)<br>170–179 Gobo 5 - Shaking Rotation (wheel slot 6)<br>180–189 Gobo 6 - Shaking Rotation (wheel slot 7)<br>190–199 Gobo 7 - Shaking Rotation (wheel slot 8)<br>200–201 Open/hole (wheel slot 1)<br>202–218 Fast to slow - Fast<br>219–222 Fast to slow - Slow<br>223–242 Slow to fast - Slow<br>243–243 Slow to fast - Fast<br>244–249 Random gobo selection by audio control<br>250–255 Auto random gobo selection from fast to slow |
| **27** | Gobo Rotation | 128 | 0–0 Gobo indexing min<br>1–123 Fast to slow - Fast<br>124–127 Fast to slow - Slow<br>128–128 Gobo indexing center<br>129–231 Slow to fast - Slow<br>232–255 Slow to fast - Fast |
| **28** | Gobo Rotation Fine | 0 | Fine byte of Gobo Rotation |
| **29** | Prism | 0 | 0–19 Open position (hole) (wheel slot 1)<br>20–127 6 - facet rotating prism (wheel slot 2)<br>128–135 Prism/gobo macros (wheel slot 3)<br>136–143 Macro 2 (wheel slot 5)<br>144–151 Macro 3 (wheel slot 6)<br>152–159 Macro 4 (wheel slot 7)<br>160–167 Macro 5 (wheel slot 8)<br>168–175 Macro 6 (wheel slot 9)<br>176–183 Macro 7 (wheel slot 10)<br>184–191 Macro 8 (wheel slot 11)<br>192–199 Macro 9 (wheel slot 12)<br>200–207 Macro 10 (wheel slot 13)<br>208–215 Macro 11 (wheel slot 14)<br>216–223 Macro 12 (wheel slot 15)<br>224–231 Macro 13 (wheel slot 16)<br>232–239 Macro 14 (wheel slot 17)<br>240–247 Macro 15 (wheel slot 18)<br>248–255 Macro 16 (wheel slot 19) |

## Mode 1 - RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **30** | Prism Rotation | 128 | 0–0 No rotation<br>1–24 Fast to slow 1/7<br>25–49 Fast to slow 2/7<br>50–74 Fast to slow 3/7<br>75–99 Fast to slow 4/7<br>100–119 Fast to slow 5/7<br>120–124 Fast to slow 6/7<br>125–127 Fast to slow 7/7<br>128–128 No rotation middle<br>129–131 Slow to fast 1/7<br>132–136 Slow to fast 2/7<br>137–156 Slow to fast 3/7<br>157–181 Slow to fast 4/7<br>182–206 Slow to fast 5/7<br>207–232 Slow to fast 6/7<br>233–255 Slow to fast 7/7 |
| **31** | Frost1 | 0 | 0–0 Open<br>1–50 Light Frost from 0% to 100%<br>51–53 100% Light frost<br>54–63 Pulse closing from slow to fast<br>64–73 Pulse opening from fast to slow<br>74–83 Ramping from fast to slow<br>84–86 Open<br>87–136 Medium Frost from 0% to 100%<br>137–139 100% Medium Frost<br>140–149 Pulse closing from slow to fast<br>150–159 Pulse opening from fast to slow<br>160–169 Ramping from fast to slow<br>170–172 Open<br>173–222 Combined Frost from 0% to 100%<br>223–225 100% Combined Frost<br>226–235 Pulse closing from slow to fast<br>236–245 Pulse opening from fast to slow<br>246–255 Ramping from fast to slow |

## Mode 1 - RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **32** | Iris | 0 | 0–179 Open<br>180–191 Closed<br>192–194 Slow to fast 1/13<br>195–196 Slow to fast 2/13<br>197–198 Slow to fast 3/13<br>199–200 Slow to fast 4/13<br>201–202 Slow to fast 5/13<br>203–204 Slow to fast 6/13<br>205–206 Slow to fast 7/13<br>207–208 Slow to fast 8/13<br>209–210 Slow to fast 9/13<br>211–212 Slow to fast 10/13<br>213–214 Slow to fast 11/13<br>215–216 Slow t ofast 12/13<br>217–219 Slow to fast 13/13<br>220–221 Fast to slow 1/13<br>222–223 Fast to slow 2/13<br>224–225 Fast to slow 3/13<br>226–227 Fast to slow 4/13<br>228–229 Fast to slow 5/13<br>230–231 Fast to slow 6/13<br>232–233 Fast to slow 7/13<br>234–235 Fast to slow 8/13<br>236–237 Fast to slow 9/13<br>238–239 Fast to slow 10/13<br>240–241 Fast to slow 11/13<br>242–243 Fast to slow 12/13<br>244–247 Fast to slow 13/13<br>248–249 Random pulse opening fast<br>250–251 Random pulse opening slow<br>252–253 Random pulse closing fast<br>254–255 Random pulse closing slow |
| **33** | Iris Fine | 0 | Fine byte of Iris |
| **34** | Zoom | 128 | 0–127 Zoom max<br>128–254 Zoom center<br>255–255 Zoom min |
| **35** | Zoom Fine | 0 | Fine byte of Zoom |
| **36** | Focus | 128 | 0–127 Focus far<br>128–254 Focus center<br>255–255 Focus near |
| **37** | Focus Fine | 128 | Fine byte of Focus |
| **38** | Shaper Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **39** | Blade1A | 0 | |
| **40** | Blade1Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **41** | Blade4A | 0 | |
| **42** | Blade4Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **43** | Blade3A | 0 | |
| **44** | Blade3Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **45** | Blade2A | 0 | |

### Mode 1 - RGB (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **46** | Blade2Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **47** | Shutter / Strobe | 32 | 0–31 Closed<br>32–63 Open<br>64–79 Strobe · Slow to fast 1/12 0.3–9.83 Hz<br>80–94 Strobe · Slow to fast 6/12 10.5–19.4 Hz<br>95–95 Strobe · Slow to fast 12/12 20 Hz<br>96–127 open<br>128–134 StrobePulseOpen · Slow to fast 1/7 0.1–0.26 Hz<br>135–140 StrobePulseOpen · Slow to fast 4/7 0.287–0.42 Hz<br>141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz<br>144–149 StrobePulseClose · Fast to slow 1/7 0.5–0.367 Hz<br>150–155 StrobePulseClose · Fast to slow 4/7 0.34–0.207 Hz<br>156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz<br>160–191 open<br>192–223 Random strobe from slow to fast<br>224–255 open |
| **48** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **49** | Dimmer Fine | 0 | Fine byte of Dimmer |

## Mode 3 - RGBAL

53 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Pan | 128 | |
| **2** | Pan Fine | 0 | Fine byte of Pan |
| **3** | Tilt | 128 | |
| **4** | Tilt Fine | 0 | Fine byte of Tilt |
| **5** | Position MSpeed | 0 | 0–0 Standard mode<br>1–254 Max Speed Mode<br>255–255 Min Speed Mode |

## Mode 3 - RGBAL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **6** | Control1 | 0 | 0–9 No function<br>10–14 Wired DMX<br>15–19 Wireless DMX<br>20–24 Display On<br>25–29 Display Off<br>30–39 NoFeature 1<br>40–44 PT mode: Speed<br>45–49 PT mode: Time<br>50–54 BO while PAN TILT moving: ON<br>55–59 BO while PAN TILT moving: OFF<br>60–64 BO while Gobo moving: ON<br>65–69 BO while Gobo moving: OFF<br>70–74 Fan mode Auto<br>75–79 Fan mode High<br>80–84 Quiet mode: Fans ON at blackout<br>85–89 Quiet mode: Fans OFF at blackout<br>90–94 Fans mode: CPC-Fans OFF<br>95–119 NoFeature 2<br>120–124 Parking position ON<br>125–129 Parking position OFF<br>130–139 Fixture reset (except pan/tilt)<br>140–149 PositionReset<br>150–159 NoFeature 3<br>160–169 Gobo and Effect wheel reset<br>170–179 No function<br>180–189 Zoom/focus/frost/prism reset<br>190–199 Iris /framing shutters/effect wheel reset<br>200–209 Total fixture reset<br>210–211 Green/Blue correction calibration<br>212–218 NoFeature 5<br>219–220 Gobo indexing: Maximum speed and shortcut<br>221–222 Gobo indexing: Follow speed and direction<br>223–224 Gobo indexing: Maximum speed and follow directi…<br>225–229 RoboSpot enabled<br>230–234 RoboSpot disabled except faders and PT<br>235–239 RoboSpot fully disabled<br>240–240 Disabled Quiet mode<br>241–255 Quiet mode min to max |
| **7** | L EDFrequency | 10 | 0–4 PWM frequency from Display menu<br>5–9 300 Hz<br>10–14 600 Hz<br>15–19 1200 Hz<br>20–24 2400 Hz<br>25–255 NoFeature |
| **8** | L EDFrequency Adjust | 128 | |

## Mode 3 - RGBAL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **9** | Color Control | 1 | 0–29 NoFunction<br>30–34 Standard CTO 8000-2700K<br>35–39 Extended CTO 10000-1800K<br>40–44 Colour mixing mode: CMY (DMX mode 1 and 2 only)<br>45–49 Colour mixing mode: RGB (DMX mode 1 and 2 only)<br>50–54 Dimmer curve Square law<br>55–59 Dimmer curve Linear<br>60–79 NoFeature 1<br>80–84 Tungsten effect simulation (750W): On<br>85–89 Tungsten effect simulation (1000W): On<br>90–94 Tungsten effect simulation (1200W): On<br>95–99 Tungsten effect simulation (2000W): On<br>100–104 Tungsten effect simulation (2500W): On<br>105–109 Tungsten effect simulation: Off<br>110–114 Save user colour<br>115–119 Chromatic white On<br>120–124 Chromatic white Off<br>125–129 Light output stability On<br>130–134 Light output stability Off<br>135–139 Uniformity On<br>140–144 Uniformity Off<br>145–152 NoFeature 2<br>153–154 1800K/High intensity<br>155–156 2700K/High intensity<br>157–158 3200K/High intensity<br>159–160 4200K/High intensity<br>161–162 5600K/High intensity<br>163–164 8000K/High intensity<br>165–166 10000K/High intensity<br>167–168 1800K/High CRI<br>169–170 2700K/High CRI<br>171–172 3200K/High CRI<br>173–174 4200K/High CRI<br>175–176 5600K/High CRI<br>177–178 8000K/High CRI<br>179–180 10000K/High CRI<br>181–182 Save Green/Blue correction<br>183–255 NoFeature 3 |
| **10** | C RIMode | 0 | 0–254 CRI 80<br>255–255 CRI 90+ |
| **11** | Color Macro1 | 0 | |
| **12** | Red | 255 | |
| **13** | Red Fine | 255 | Fine byte of Red |
| **14** | Green | 255 | |
| **15** | Green Fine | 255 | Fine byte of Green |
| **16** | Blue | 255 | |
| **17** | Blue Fine | 255 | Fine byte of Blue |
| **18** | Color Add RY | 255 | |
| **19** | Color Add RY Fine | 255 | Fine byte of Color Add RY |
| **20** | Color Add GY | 255 | |
| **21** | Color Add GY Fine | 255 | Fine byte of Color Add GY |

## Mode 3 - RGBAL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **22** | C TO | 110 | 0–1 8000 K<br>2–64 7978 K - > 6622 K<br>65–65 6600 K<br>66–109 6578K - > 5622 K<br>110–110 5600 K<br>111–179 5580 K - > 4220 K<br>180–180 4200 K<br>181–229 4180 K - > 3220 K<br>230–230 3200 K<br>231–254 3180 K - > 2720 K<br>255–255 2700K |
| **23** | Tint | 128 | 0–0 Uncorrected white<br>1–127 Minus green - > Uncorrected white<br>128–128 Uncorrected white<br>129–254 Uncorrected white - > Plus green<br>255–255 Uncorrected white |
| **24** | Color Mix Mode | 0 | 0–9 Virtual colours (Virtual has priority)<br>10–19 Maximum mode (highest values have priority)<br>20–29 Minimum mode (lowest values have priority)<br>30–39 Multiply mode (multiply Virtual and Colour mix)<br>40–49 Addition mode (Virtual + Colour mix)<br>50–59 Subtraction mode (Virtual - Colour mix)<br>60–69 Inverted Subtraction mode (Colour mix - Virtual)<br>70–79 White Point Off<br>80–128 Reserved<br>129–129 Crossfade Virtual only<br>130–254 Crossfade between Virtual and Colour mix<br>255–255 Crossfade Color mix only |
| **25** | Gobo Wheel1MSpeed | 0 | |
| **26** | Focus MSpeed | 0 | 0–0 Standard mode<br>1–254 Max Speed Mode<br>255–255 Min Speed Mode |
| **27** | Animation Wheel1 | 0 | 0–19 Open<br>20–72 Proportional indexing min (wheel slot 1)<br>73–126 Proportional indexing center (wheel slot 1)<br>127–127 Proportional indexing max (wheel slot 1)<br>128–169 Ramping from open to full position max (wheel slo…<br>170–170 Ramping from open to full position min (wheel slo…<br>171–212 Ramping from open to half position max (wheel sl…<br>213–213 Ramping from open to half position min (wheel sl…<br>214–254 Ramp from half position to full position max (whe…<br>255–255 Ramp from half position to full position min (whee… |
| **28** | Animation Wheel1Pos | 128 | 0–0 No rotation<br>1–24 Fast to slow 1/7<br>25–49 Fast to slow 2/7<br>50–74 Fast to slow 3/7<br>75–99 Fast to slow 4/7<br>100–119 Fast to slow 5/7<br>120–124 Fast to slow 6/7<br>125–127 Fast to slow 7/7<br>128–128 No rotation middle<br>129–131 Slow to fast 1/7<br>132–136 Slow to fast 2/7<br>137–156 Slow to fast 3/7<br>157–181 Slow to fast 4/7<br>182–206 Slow to fast 5/7<br>207–232 Slow to fast 6/7<br>233–255 Slow to fast 7/7 |

## Mode 3 - RGBAL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **29** | Animation Wheel1Select Effects | 0 | 0–7 No animation<br>8–9 Macro 1 (Focus=94)<br>10–11 Macro 2 (Focus=84)<br>12–13 Macro 3 (Focus=87)<br>14–15 Macro 4 (Focus=69)<br>16–17 Macro 5 (Focus=82)<br>18–19 Macro 6 (Focus=82)<br>20–21 Macro 7 (Focus=72)<br>22–23 Macro 8 (Focus=86)<br>24–25 Macro 9 (Focus=78)<br>26–27 Macro 10 (Focus=102)<br>28–255 Reserved |
| **30** | Gobo | 0 | 0–3 Open/hole (wheel slot 1)<br>4–7 Gobo 1 (wheel slot 2)<br>8–11 Gobo 2 (wheel slot 3)<br>12–15 Gobo 3 (wheel slot 4)<br>16–19 Gobo 4 (wheel slot 5)<br>20–23 Gobo 5 (wheel slot 6)<br>24–27 Gobo 6 (wheel slot 7)<br>28–31 Gobo 7 (wheel slot 8)<br>32–35 Gobo 1 - Rotation (wheel slot 2)<br>36–39 Gobo 2 - Rotation (wheel slot 3)<br>40–43 Gobo 3 - Rotation (wheel slot 4)<br>44–47 Gobo 4 - Rotation (wheel slot 5)<br>48–51 Gobo 5 - Rotation (wheel slot 6)<br>52–55 Gobo 6 - Rotation (wheel slot 7)<br>56–59 Gobo 7 - Rotation (wheel slot 8)<br>60–69 Gobo 1 - Shaking Index (wheel slot 2)<br>70–79 Gobo 2 - Shaking Index (wheel slot 3)<br>80–89 Gobo 3 - Shaking Index (wheel slot 4)<br>90–99 Gobo 4 - Shaking Index (wheel slot 5)<br>100–109 Gobo 5 - Shaking Index (wheel slot 6)<br>110–119 Gobo 6 - Shaking Index (wheel slot 7)<br>120–129 Gobo 7 - Shaking Index (wheel slot 8)<br>130–139 Gobo 1 - Shaking Rotation (wheel slot 2)<br>140–149 Gobo 2 - Shaking Rotation (wheel slot 3)<br>150–159 Gobo 3 - Shaking Rotation (wheel slot 4)<br>160–169 Gobo 4 - Shaking Rotation (wheel slot 5)<br>170–179 Gobo 5 - Shaking Rotation (wheel slot 6)<br>180–189 Gobo 6 - Shaking Rotation (wheel slot 7)<br>190–199 Gobo 7 - Shaking Rotation (wheel slot 8)<br>200–201 Open/hole (wheel slot 1)<br>202–218 Fast to slow - Fast<br>219–222 Fast to slow - Slow<br>223–242 Slow to fast - Slow<br>243–243 Slow to fast - Fast<br>244–249 Random gobo selection by audio control<br>250–255 Auto random gobo selection from fast to slow |
| **31** | Gobo Rotation | 128 | 0–0 Gobo indexing min<br>1–123 Fast to slow - Fast<br>124–127 Fast to slow - Slow<br>128–128 Gobo indexing center<br>129–231 Slow to fast - Slow<br>232–255 Slow to fast - Fast |
| **32** | Gobo Rotation Fine | 0 | Fine byte of Gobo Rotation |

## Mode 3 - RGBAL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **33** | Prism | 0 | 0–19 Open position (hole) (wheel slot 1)<br>20–127 6 - facet rotating prism (wheel slot 2)<br>128–135 Prism/gobo macros (wheel slot 3)<br>136–143 Macro 2 (wheel slot 5)<br>144–151 Macro 3 (wheel slot 6)<br>152–159 Macro 4 (wheel slot 7)<br>160–167 Macro 5 (wheel slot 8)<br>168–175 Macro 6 (wheel slot 9)<br>176–183 Macro 7 (wheel slot 10)<br>184–191 Macro 8 (wheel slot 11)<br>192–199 Macro 9 (wheel slot 12)<br>200–207 Macro 10 (wheel slot 13)<br>208–215 Macro 11 (wheel slot 14)<br>216–223 Macro 12 (wheel slot 15)<br>224–231 Macro 13 (wheel slot 16)<br>232–239 Macro 14 (wheel slot 17)<br>240–247 Macro 15 (wheel slot 18)<br>248–255 Macro 16 (wheel slot 19) |
| **34** | Prism Rotation | 128 | 0–0 No rotation<br>1–24 Fast to slow 1/7<br>25–49 Fast to slow 2/7<br>50–74 Fast to slow 3/7<br>75–99 Fast to slow 4/7<br>100–119 Fast to slow 5/7<br>120–124 Fast to slow 6/7<br>125–127 Fast to slow 7/7<br>128–128 No rotation middle<br>129–131 Slow to fast 1/7<br>132–136 Slow to fast 2/7<br>137–156 Slow to fast 3/7<br>157–181 Slow to fast 4/7<br>182–206 Slow to fast 5/7<br>207–232 Slow to fast 6/7<br>233–255 Slow to fast 7/7 |
| **35** | Frost1 | 0 | 0–0 Open<br>1–50 Light Frost from 0% to 100%<br>51–53 100% Light frost<br>54–63 Pulse closing from slow to fast<br>64–73 Pulse opening from fast to slow<br>74–83 Ramping from fast to slow<br>84–86 Open<br>87–136 Medium Frost from 0% to 100%<br>137–139 100% Medium Frost<br>140–149 Pulse closing from slow to fast<br>150–159 Pulse opening from fast to slow<br>160–169 Ramping from fast to slow<br>170–172 Open<br>173–222 Combined Frost from 0% to 100%<br>223–225 100% Combined Frost<br>226–235 Pulse closing from slow to fast<br>236–245 Pulse opening from fast to slow<br>246–255 Ramping from fast to slow |

## Mode 3 - RGBAL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **36** | Iris | 0 | 0–179 Open<br>180–191 Closed<br>192–194 Slow to fast 1/13<br>195–196 Slow to fast 2/13<br>197–198 Slow to fast 3/13<br>199–200 Slow to fast 4/13<br>201–202 Slow to fast 5/13<br>203–204 Slow to fast 6/13<br>205–206 Slow to fast 7/13<br>207–208 Slow to fast 8/13<br>209–210 Slow to fast 9/13<br>211–212 Slow to fast 10/13<br>213–214 Slow to fast 11/13<br>215–216 Slow t ofast 12/13<br>217–219 Slow to fast 13/13<br>220–221 Fast to slow 1/13<br>222–223 Fast to slow 2/13<br>224–225 Fast to slow 3/13<br>226–227 Fast to slow 4/13<br>228–229 Fast to slow 5/13<br>230–231 Fast to slow 6/13<br>232–233 Fast to slow 7/13<br>234–235 Fast to slow 8/13<br>236–237 Fast to slow 9/13<br>238–239 Fast to slow 10/13<br>240–241 Fast to slow 11/13<br>242–243 Fast to slow 12/13<br>244–247 Fast to slow 13/13<br>248–249 Random pulse opening fast<br>250–251 Random pulse opening slow<br>252–253 Random pulse closing fast<br>254–255 Random pulse closing slow |
| **37** | Iris Fine | 0 | Fine byte of Iris |
| **38** | Zoom | 128 | 0–127 Zoom max<br>128–254 Zoom center<br>255–255 Zoom min |
| **39** | Zoom Fine | 0 | Fine byte of Zoom |
| **40** | Focus | 128 | 0–127 Focus far<br>128–254 Focus center<br>255–255 Focus near |
| **41** | Focus Fine | 128 | Fine byte of Focus |
| **42** | Shaper Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **43** | Blade1A | 0 | |
| **44** | Blade1Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **45** | Blade4A | 0 | |
| **46** | Blade4Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **47** | Blade3A | 0 | |
| **48** | Blade3Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **49** | Blade2A | 0 | |

## Mode 3 - RGBAL (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **50** | Blade2Rot | 128 | 0–127 min<br>128–254 mid<br>255–255 max |
| **51** | Shutter / Strobe | 32 | 0–31 Closed<br>32–63 Open<br>64–79 Strobe · Slow to fast 1/12 0.3–9.83 Hz<br>80–94 Strobe · Slow to fast 6/12 10.5–19.4 Hz<br>95–95 Strobe · Slow to fast 12/12 20 Hz<br>96–127 open<br>128–134 StrobePulseOpen · Slow to fast 1/7 0.1–0.26 Hz<br>135–140 StrobePulseOpen · Slow to fast 4/7 0.287–0.42 Hz<br>141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz<br>144–149 StrobePulseClose · Fast to slow 1/7 0.5–0.367 Hz<br>150–155 StrobePulseClose · Fast to slow 4/7 0.34–0.207 Hz<br>156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz<br>160–191 open<br>192–223 Random strobe from slow to fast<br>224–255 open |
| **52** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **53** | Dimmer Fine | 0 | Fine byte of Dimmer |