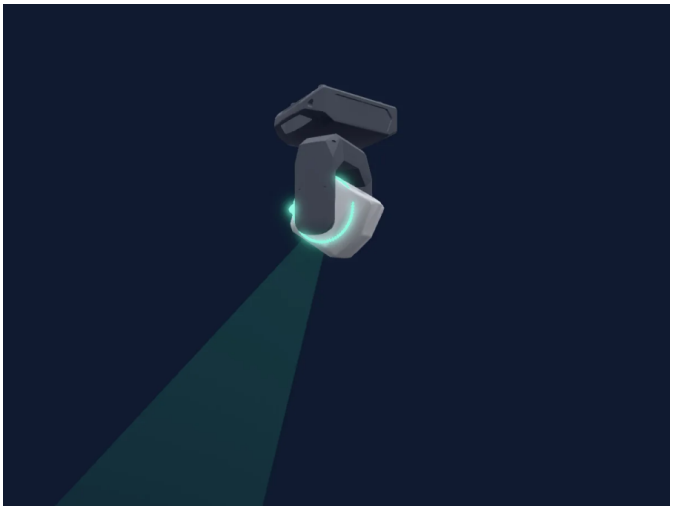
Cameo

# Otos W6



| | |
|---|---|
| Manufacturer | **Cameo** |
| Type | **Moving head** |
| DMX modes | **12** |
| DMX footprint | **12, 22, 23, 25, 27, 28, 39, 49, 79, 89 channels** |
| Beam angle | **5-55°** |
| Pan range | **540°** |
| Tilt range | **220°** |
| Heads / cells | **3** |
| Size (W × H × D) | **250 × 250 × 200 mm** |
| GDTF fixture type | **71C28E4A-97E0-4393-8FA6-E1…** |

## Controls

Zoom · Extra LED colours · Colour temperature · Colour wheel · Strobe · Dimmer · Pixel control · Pan and tilt

## DMX modes

| | |
|---|---|
| 12CH Dual | 12 ch |
| 22CH Dual | 22 ch |
| 22CH HSI Wash | 22 ch |
| 23CH RGBL Effect | 23 ch |
| 23CH RGBL Wash 8Bit | 23 ch |
| 25CH Dual Rings | 25 ch |
| 27CH RGBL Wash | 27 ch |
| 49CH RGBL Rings | 28 ch |
| 39CH HSI Pattern | 39 ch |
| 49CH RGBL Pattern | 49 ch |
| 100CH RGBL Pixel | 79 ch |
| 290CH RGBL Pixel Full | 89 ch |

# 12CH Dual

12 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 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 6 | Dimmer Fine | 0 | Fine byte of Dimmer |
| 7 | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| 8 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 9 | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| 10 | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| 11 | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |

### 12CH Dual (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 12 | Control1 | 0 | |

## 22CH Dual

22 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 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 6 | Dimmer Fine | 0 | Fine byte of Dimmer |
| 7 | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| 8 | Red | 255 | |
| 9 | Green | 255 | |
| 10 | Blue | 255 | |
| 11 | Color Add GY | 255 | |
| 12 | C TC | 0 | 0–5 Off<br>6–6 Warm white<br>7–46 Warm white to 2700K<br>47–47 Bulb White (2700K)<br>48–87 2700K to 3200K<br>88–88 Halogen White (3200K)<br>89–128 3200K to 4000K<br>129–129 Neutral White (4000K)<br>130–169 4000K to 5600K<br>170–170 Studio White (5600K)<br>171–210 5600K to 6500K<br>211–211 Daylight White (6500K)<br>212–251 6500K to Cold white<br>252–255 Cold white |
| 13 | Tint | 128 | 0–0 Off<br>1–127 Magenta -> Neutral<br>128–128 Neutral<br>129–255 Neutral -> Green |

### 22CH Dual (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **14** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **15** | Red | 255 | |
| **16** | Green | 255 | |
| **17** | Blue | 255 | |
| **18** | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| **19** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **20** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **21** | Color Mix Mode | 127 | 0–254 Basis<br>255–255 Pixel |
| **22** | Control1 | 0 | |

## 22CH HSI Wash

22 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** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **6** | Dimmer Fine | 0 | Fine byte of Dimmer |

## 22CH HSI Wash (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **7** | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| **8** | H SBHue | 0 | |
| **9** | H SBHue Fine | 0 | Fine byte of H SBHue |
| **10** | H SBSaturation | 0 | 0–254 0% (White)<br>255–255 100% (Color) |
| **11** | C TC | 0 | 0–5 Off<br>6–6 Warm white<br>7–46 Warm white to 2700K<br>47–47 Bulb White (2700K)<br>48–87 2700K to 3200K<br>88–88 Halogen White (3200K)<br>89–128 3200K to 4000K<br>129–129 Neutral White (4000K)<br>130–169 4000K to 5600K<br>170–170 Studio White (5600K)<br>171–210 5600K to 6500K<br>211–211 Daylight White (6500K)<br>212–251 6500K to Cold white<br>252–255 Cold white |
| **12** | Tint | 128 | 0–0 Off<br>1–127 Magenta -> Neutral<br>128–128 Neutral<br>129–255 Neutral -> Green |

## 22CH HSI Wash (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **13** | Color Wheel | 0 | 0–5 No function (wheel slot 1)<br>6–9 46 Dark Magenta (wheel slot 2)<br>10–13 29 Plasa Red (wheel slot 3)<br>14–17 26 Bright Red (wheel slot 4)<br>18–21 127 Smokey Pink (wheel slot 5)<br>22–25 36 Medium Pink (wheel slot 6)<br>26–29 19 Fire (wheel slot 7)<br>30–33 135 Deep Golden Amber (wheel slot 8)<br>34–37 778 Millennium Gold (wheel slot 9)<br>38–41 21 Gold Amber (wheel slot 10)<br>42–45 157 Pink (wheel slot 11)<br>46–49 110 Middle Rose (wheel slot 12)<br>50–53 109 Light Salmon (wheel slot 13)<br>54–57 35 Light Pink (wheel slot 14)<br>58–61 134 Golden Amber (wheel slot 15)<br>62–65 746 Brown (wheel slot 16)<br>66–69 105 Orange (wheel slot 17)<br>70–73 20 Medium Amber (wheel slot 18)<br>74–77 768 Egg Yolk Yellow (wheel slot 19)<br>78–81 15 Deep Straw (wheel slot 20)<br>82–85 767 Oklahoma Yellow (wheel slot 21)<br>86–89 101 Yellow (wheel slot 22)<br>90–93 100 Spring Yellow (wheel slot 23)<br>94–97 88 Lime Green (wheel slot 24)<br>98–101 121 LEE Green (wheel slot 25)<br>102–105 738 Jas Green (wheel slot 26)<br>106–109 89 Moss Green (wheel slot 27)<br>110–113 139 Primary Green (wheel slot 28)<br>114–117 124 Dark Green (wheel slot 29)<br>118–121 323 Jade (wheel slot 30)<br>122–125 354 Special Steel Blue (wheel slot 31)<br>126–129 116 Medium Blue-Green (wheel slot 32)<br>130–133 183 Moonlight Blue (wheel slot 33)<br>134–137 132 Medium Blue (wheel slot 34)<br>138–141 119 Dark Blue (wheel slot 35)<br>142–145 716 Mikkel Blue (wheel slot 36)<br>146–149 71 Tokyo Blue (wheel slot 37)<br>150–153 181 Congo Blue (wheel slot 38)<br>154–157 799 Special KH Lavender (wheel slot 39)<br>158–161 707 Ultimate Violet (wheel slot 40)<br>162–165 343 Special Medium Lavender (wheel slot 41)<br>166–169 798 Chrysalis Pink (wheel slot 42)<br>170–173 701 Provence (wheel slot 43)<br>174–177 797 Deep Purple (wheel slot 44)<br>178–181 48 Rose Purple (wheel slot 45)<br>182–185 345 Fuchsia Pink (wheel slot 46)<br>186–189 795 Magical Magenta (wheel slot 47)<br>190–193 128 Bright Pink (wheel slot 48)<br>194–197 2 Rose Pink (wheel slot 49)<br>198–201 2 Rose Pink (wheel slot 50)<br>202–207 User Color 1 (wheel slot 51)<br>208–213 User Color 2 (wheel slot 52)<br>214–219 User Color 3 (wheel slot 53)<br>220–225 User Color 4 (wheel slot 54)<br>226–231 User Color 5 (wheel slot 55)<br>232–237 User Color 6 (wheel slot 56)<br>238–243 User Color 7 (wheel slot 57)<br>244–249 User Color 8 (wheel slot 58)<br>250–255 No function (wheel slot 1) |

### 22CH HSI Wash (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **14** | Color Mix MSpeed | 0 | 0–5 0s<br>6–105 1/10s - 10s<br>106–214 11s - 119s<br>215–244 2m - 4m50s<br>245–255 5m - 15m |
| **15** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **16** | Red | 255 | |
| **17** | Green | 255 | |
| **18** | Blue | 255 | |
| **19** | Shutter1Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 slow<br>22–22 fast<br>23–32 slow<br>33–33 fast<br>34–44 slow<br>45–45 fast<br>46–55 slow<br>56–56 fast<br>57–67 slow<br>68–68 fast<br>69–78 slow<br>79–79 fast<br>80–101 slow<br>102–102 fast<br>103–126 5s short burst with break<br>127–127 1s short burst with break<br>128–128 Slow 1Hz<br>129–249 1-20 Hz<br>250–250 Fast 20Hz<br>251–255 open |
| **20** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **21** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **22** | Control1 | 0 | |

## 23CH RGBL Effect

23 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** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **6** | Dimmer Fine | 0 | Fine byte of Dimmer |

## 23CH RGBL Effect (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **7** | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| **8** | Red | 255 | |
| **9** | Green | 255 | |
| **10** | Blue | 255 | |
| **11** | Color Add GY | 255 | |
| **12** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **13** | Red | 255 | |
| **14** | Green | 255 | |
| **15** | Blue | 255 | |
| **16** | Shutter1Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 slow<br>22–22 fast<br>23–32 slow<br>33–33 fast<br>34–44 slow<br>45–45 fast<br>46–55 slow<br>56–56 fast<br>57–67 slow<br>68–68 fast<br>69–78 slow<br>79–79 fast<br>80–101 slow<br>102–102 fast<br>103–126 5s short burst with break<br>127–127 1s short burst with break<br>128–128 Slow 1Hz<br>129–249 1-20 Hz<br>250–250 Fast 20Hz<br>251–255 open |

### 23CH RGBL Effect (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **17** | Pattern | 0 | 0–5 off (washlight Mode)<br>6–26 Nr 1<br>27–47 Nr 2<br>48–68 Nr 3<br>69–89 Nr 4<br>90–110 Nr 5<br>111–131 Nr 6<br>132–152 Nr 7<br>153–173 Nr 8<br>174–194 Nr 9<br>195–215 Nr 10<br>216–236 Nr 11<br>237–255 Nr 12 |
| **18** | Pattern Speed | 0 | 0–5 Stop<br>6–126 Chase slow forward<br>127–127 Chase fast forward<br>128–254 Fade fast Backward<br>255–255 Fade slow backward |
| **19** | Pattern | 0 | 0–5 off (washlight Mode)<br>6–255 pattern Nr |
| **20** | Pattern Speed | 0 | 0–5 Stop<br>6–127 slow to fast<br>128–255 fast to slow (backwards) |
| **21** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **22** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **23** | Control1 | 0 | |

## 23CH RGBL Wash 8Bit

23 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** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **6** | Dimmer Fine | 0 | Fine byte of Dimmer |

## 23CH RGBL Wash 8Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **7** | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| **8** | Red | 255 | |
| **9** | Green | 255 | |
| **10** | Blue | 255 | |
| **11** | Color Add GY | 255 | |
| **12** | C TC | 0 | 0–5 Off<br>6–6 Warm white<br>7–46 Warm white to 2700K<br>47–47 Bulb White (2700K)<br>48–87 2700K to 3200K<br>88–88 Halogen White (3200K)<br>89–128 3200K to 4000K<br>129–129 Neutral White (4000K)<br>130–169 4000K to 5600K<br>170–170 Studio White (5600K)<br>171–210 5600K to 6500K<br>211–211 Daylight White (6500K)<br>212–251 6500K to Cold white<br>252–255 Cold white |
| **13** | Tint | 128 | 0–0 Off<br>1–127 Magenta -> Neutral<br>128–128 Neutral<br>129–255 Neutral -> Green |

## 23CH RGBL Wash 8Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **14** | Color Wheel | 0 | 0–5 No function (wheel slot 1)<br>6–9 46 Dark Magenta (wheel slot 2)<br>10–13 29 Plasa Red (wheel slot 3)<br>14–17 26 Bright Red (wheel slot 4)<br>18–21 127 Smokey Pink (wheel slot 5)<br>22–25 36 Medium Pink (wheel slot 6)<br>26–29 19 Fire (wheel slot 7)<br>30–33 135 Deep Golden Amber (wheel slot 8)<br>34–37 778 Millennium Gold (wheel slot 9)<br>38–41 21 Gold Amber (wheel slot 10)<br>42–45 157 Pink (wheel slot 11)<br>46–49 110 Middle Rose (wheel slot 12)<br>50–53 109 Light Salmon (wheel slot 13)<br>54–57 35 Light Pink (wheel slot 14)<br>58–61 134 Golden Amber (wheel slot 15)<br>62–65 746 Brown (wheel slot 16)<br>66–69 105 Orange (wheel slot 17)<br>70–73 20 Medium Amber (wheel slot 18)<br>74–77 768 Egg Yolk Yellow (wheel slot 19)<br>78–81 15 Deep Straw (wheel slot 20)<br>82–85 767 Oklahoma Yellow (wheel slot 21)<br>86–89 101 Yellow (wheel slot 22)<br>90–93 100 Spring Yellow (wheel slot 23)<br>94–97 88 Lime Green (wheel slot 24)<br>98–101 121 LEE Green (wheel slot 25)<br>102–105 738 Jas Green (wheel slot 26)<br>106–109 89 Moss Green (wheel slot 27)<br>110–113 139 Primary Green (wheel slot 28)<br>114–117 124 Dark Green (wheel slot 29)<br>118–121 323 Jade (wheel slot 30)<br>122–125 354 Special Steel Blue (wheel slot 31)<br>126–129 116 Medium Blue-Green (wheel slot 32)<br>130–133 183 Moonlight Blue (wheel slot 33)<br>134–137 132 Medium Blue (wheel slot 34)<br>138–141 119 Dark Blue (wheel slot 35)<br>142–145 716 Mikkel Blue (wheel slot 36)<br>146–149 71 Tokyo Blue (wheel slot 37)<br>150–153 181 Congo Blue (wheel slot 38)<br>154–157 799 Special KH Lavender (wheel slot 39)<br>158–161 707 Ultimate Violet (wheel slot 40)<br>162–165 343 Special Medium Lavender (wheel slot 41)<br>166–169 798 Chrysalis Pink (wheel slot 42)<br>170–173 701 Provence (wheel slot 43)<br>174–177 797 Deep Purple (wheel slot 44)<br>178–181 48 Rose Purple (wheel slot 45)<br>182–185 345 Fuchsia Pink (wheel slot 46)<br>186–189 795 Magical Magenta (wheel slot 47)<br>190–193 128 Bright Pink (wheel slot 48)<br>194–197 2 Rose Pink (wheel slot 49)<br>198–201 2 Rose Pink (wheel slot 50)<br>202–207 User Color 1 (wheel slot 51)<br>208–213 User Color 2 (wheel slot 52)<br>214–219 User Color 3 (wheel slot 53)<br>220–225 User Color 4 (wheel slot 54)<br>226–231 User Color 5 (wheel slot 55)<br>232–237 User Color 6 (wheel slot 56)<br>238–243 User Color 7 (wheel slot 57)<br>244–249 User Color 8 (wheel slot 58)<br>250–255 No function (wheel slot 1) |

### 23CH RGBL Wash 8Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **15** | Color Mix MSpeed | 0 | 0–5 0s<br>6–105 1/10s - 10s<br>106–214 11s - 119s<br>215–244 2m - 4m50s<br>245–255 5m - 15m |
| **16** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **17** | Red | 255 | |
| **18** | Green | 255 | |
| **19** | Blue | 255 | |
| **20** | Shutter1Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 slow<br>22–22 fast<br>23–32 slow<br>33–33 fast<br>34–44 slow<br>45–45 fast<br>46–55 slow<br>56–56 fast<br>57–67 slow<br>68–68 fast<br>69–78 slow<br>79–79 fast<br>80–101 slow<br>102–102 fast<br>103–126 5s short burst with break<br>127–127 1s short burst with break<br>128–128 Slow 1Hz<br>129–249 1-20 Hz<br>250–250 Fast 20Hz<br>251–255 open |
| **21** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **22** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **23** | Control1 | 0 | |

## 25CH Dual Rings

25 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** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **6** | Dimmer Fine | 0 | Fine byte of Dimmer |
| **7** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **8** | Dimmer Fine | 0 | Fine byte of Dimmer |

## 25CH Dual Rings (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **9** | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| **10** | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| **11** | Red | 255 | |
| **12** | Green | 255 | |
| **13** | Blue | 255 | |
| **14** | Color Add GY | 255 | |

## 25CH Dual Rings (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **15** | C TC | 0 | 0–5 Off<br>6–6 Warm white<br>7–46 Warm white to 2700K<br>47–47 Bulb White (2700K)<br>48–87 2700K to 3200K<br>88–88 Halogen White (3200K)<br>89–128 3200K to 4000K<br>129–129 Neutral White (4000K)<br>130–169 4000K to 5600K<br>170–170 Studio White (5600K)<br>171–210 5600K to 6500K<br>211–211 Daylight White (6500K)<br>212–251 6500K to Cold white<br>252–255 Cold white |
| **16** | Tint | 128 | 0–0 Off<br>1–127 Magenta -> Neutral<br>128–128 Neutral<br>129–255 Neutral -> Green |
| **17** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **18** | Red | 255 | |
| **19** | Green | 255 | |
| **20** | Blue | 255 | |
| **21** | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| **22** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **23** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **24** | Color Mix Mode | 127 | 0–254 Basis<br>255–255 Pixel |
| **25** | Control1 | 0 | |

# 27CH RGBL Wash

27 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 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 6 | Dimmer Fine | 0 | Fine byte of Dimmer |
| 7 | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| 8 | Red | 255 | |
| 9 | Red Fine | 255 | Fine byte of Red |
| 10 | Green | 255 | |
| 11 | Green Fine | 255 | Fine byte of Green |
| 12 | Blue | 255 | |
| 13 | Blue Fine | 255 | Fine byte of Blue |
| 14 | Color Add GY | 255 | |
| 15 | Color Add GY Fine | 255 | Fine byte of Color Add GY |
| 16 | C TC | 0 | 0–5 Off<br>6–6 Warm white<br>7–46 Warm white to 2700K<br>47–47 Bulb White (2700K)<br>48–87 2700K to 3200K<br>88–88 Halogen White (3200K)<br>89–128 3200K to 4000K<br>129–129 Neutral White (4000K)<br>130–169 4000K to 5600K<br>170–170 Studio White (5600K)<br>171–210 5600K to 6500K<br>211–211 Daylight White (6500K)<br>212–251 6500K to Cold white<br>252–255 Cold white |
| 17 | Tint | 128 | 0–0 Off<br>1–127 Magenta -> Neutral<br>128–128 Neutral<br>129–255 Neutral -> Green |

## 27CH RGBL Wash (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **18** | Color Wheel | 0 | 0–5 No function (wheel slot 1)<br>6–9 46 Dark Magenta (wheel slot 2)<br>10–13 29 Plasa Red (wheel slot 3)<br>14–17 26 Bright Red (wheel slot 4)<br>18–21 127 Smokey Pink (wheel slot 5)<br>22–25 36 Medium Pink (wheel slot 6)<br>26–29 19 Fire (wheel slot 7)<br>30–33 135 Deep Golden Amber (wheel slot 8)<br>34–37 778 Millennium Gold (wheel slot 9)<br>38–41 21 Gold Amber (wheel slot 10)<br>42–45 157 Pink (wheel slot 11)<br>46–49 110 Middle Rose (wheel slot 12)<br>50–53 109 Light Salmon (wheel slot 13)<br>54–57 35 Light Pink (wheel slot 14)<br>58–61 134 Golden Amber (wheel slot 15)<br>62–65 746 Brown (wheel slot 16)<br>66–69 105 Orange (wheel slot 17)<br>70–73 20 Medium Amber (wheel slot 18)<br>74–77 768 Egg Yolk Yellow (wheel slot 19)<br>78–81 15 Deep Straw (wheel slot 20)<br>82–85 767 Oklahoma Yellow (wheel slot 21)<br>86–89 101 Yellow (wheel slot 22)<br>90–93 100 Spring Yellow (wheel slot 23)<br>94–97 88 Lime Green (wheel slot 24)<br>98–101 121 LEE Green (wheel slot 25)<br>102–105 738 Jas Green (wheel slot 26)<br>106–109 89 Moss Green (wheel slot 27)<br>110–113 139 Primary Green (wheel slot 28)<br>114–117 124 Dark Green (wheel slot 29)<br>118–121 323 Jade (wheel slot 30)<br>122–125 354 Special Steel Blue (wheel slot 31)<br>126–129 116 Medium Blue-Green (wheel slot 32)<br>130–133 183 Moonlight Blue (wheel slot 33)<br>134–137 132 Medium Blue (wheel slot 34)<br>138–141 119 Dark Blue (wheel slot 35)<br>142–145 716 Mikkel Blue (wheel slot 36)<br>146–149 71 Tokyo Blue (wheel slot 37)<br>150–153 181 Congo Blue (wheel slot 38)<br>154–157 799 Special KH Lavender (wheel slot 39)<br>158–161 707 Ultimate Violet (wheel slot 40)<br>162–165 343 Special Medium Lavender (wheel slot 41)<br>166–169 798 Chrysalis Pink (wheel slot 42)<br>170–173 701 Provence (wheel slot 43)<br>174–177 797 Deep Purple (wheel slot 44)<br>178–181 48 Rose Purple (wheel slot 45)<br>182–185 345 Fuchsia Pink (wheel slot 46)<br>186–189 795 Magical Magenta (wheel slot 47)<br>190–193 128 Bright Pink (wheel slot 48)<br>194–197 2 Rose Pink (wheel slot 49)<br>198–201 2 Rose Pink (wheel slot 50)<br>202–207 User Color 1 (wheel slot 51)<br>208–213 User Color 2 (wheel slot 52)<br>214–219 User Color 3 (wheel slot 53)<br>220–225 User Color 4 (wheel slot 54)<br>226–231 User Color 5 (wheel slot 55)<br>232–237 User Color 6 (wheel slot 56)<br>238–243 User Color 7 (wheel slot 57)<br>244–249 User Color 8 (wheel slot 58)<br>250–255 No function (wheel slot 1) |

### 27CH RGBL Wash (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **19** | Color Mix MSpeed | 0 | 0–5 0s<br>6–105 1/10s - 10s<br>106–214 11s - 119s<br>215–244 2m - 4m50s<br>245–255 5m - 15m |
| **20** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **21** | Red | 255 | |
| **22** | Green | 255 | |
| **23** | Blue | 255 | |
| **24** | Shutter1Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 slow<br>22–22 fast<br>23–32 slow<br>33–33 fast<br>34–44 slow<br>45–45 fast<br>46–55 slow<br>56–56 fast<br>57–67 slow<br>68–68 fast<br>69–78 slow<br>79–79 fast<br>80–101 slow<br>102–102 fast<br>103–126 5s short burst with break<br>127–127 1s short burst with break<br>128–128 Slow 1Hz<br>129–249 1-20 Hz<br>250–250 Fast 20Hz<br>251–255 open |
| **25** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **26** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **27** | Control1 | 0 | |

## 49CH RGBL Rings

28 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** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **6** | Dimmer Fine | 0 | Fine byte of Dimmer |
| **7** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **8** | Dimmer Fine | 0 | Fine byte of Dimmer |

## 49CH RGBL Rings (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **9** | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| **10** | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| **11** | C TC | 0 | 0–5 Off<br>6–6 Warm white<br>7–46 Warm white to 2700K<br>47–47 Bulb White (2700K)<br>48–87 2700K to 3200K<br>88–88 Halogen White (3200K)<br>89–128 3200K to 4000K<br>129–129 Neutral White (4000K)<br>130–169 4000K to 5600K<br>170–170 Studio White (5600K)<br>171–210 5600K to 6500K<br>211–211 Daylight White (6500K)<br>212–251 6500K to Cold white<br>252–255 Cold white |
| **12** | Tint | 128 | 0–0 Off<br>1–127 Magenta -> Neutral<br>128–128 Neutral<br>129–255 Neutral -> Green |

### 49CH RGBL Rings (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **13** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **14** | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| **15** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **16** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **17** | Control1 | 0 | |
| **18** | Red | 255 | |
| **19** | Green | 255 | |
| **20** | Blue | 255 | |
| **21** | Color Add GY | 0 | |
| **22** | Red | 255 | |
| **23** | Green | 255 | |
| **24** | Blue | 255 | |
| **25** | Color Add GY | 255 | |
| **26** | Red | 255 | |
| **27** | Green | 255 | |
| **28** | Blue | 255 | |

## 39CH HSI Pattern

39 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** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **6** | Dimmer Fine | 0 | Fine byte of Dimmer |

## 39CH HSI Pattern (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **7** | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| **8** | H SBHue | 0 | |
| **9** | H SBHue Fine | 0 | Fine byte of H SBHue |
| **10** | H SBSaturation | 0 | 0–254 0% (White)<br>255–255 100% (Color) |
| **11** | C TC | 0 | 0–5 Off<br>6–6 Warm white<br>7–46 Warm white to 2700K<br>47–47 Bulb White (2700K)<br>48–87 2700K to 3200K<br>88–88 Halogen White (3200K)<br>89–128 3200K to 4000K<br>129–129 Neutral White (4000K)<br>130–169 4000K to 5600K<br>170–170 Studio White (5600K)<br>171–210 5600K to 6500K<br>211–211 Daylight White (6500K)<br>212–251 6500K to Cold white<br>252–255 Cold white |
| **12** | Tint | 128 | 0–0 Off<br>1–127 Magenta -> Neutral<br>128–128 Neutral<br>129–255 Neutral -> Green |

## 39CH HSI Pattern (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **13** | Color Wheel | 0 | 0–5 No function (wheel slot 1)<br>6–9 46 Dark Magenta (wheel slot 2)<br>10–13 29 Plasa Red (wheel slot 3)<br>14–17 26 Bright Red (wheel slot 4)<br>18–21 127 Smokey Pink (wheel slot 5)<br>22–25 36 Medium Pink (wheel slot 6)<br>26–29 19 Fire (wheel slot 7)<br>30–33 135 Deep Golden Amber (wheel slot 8)<br>34–37 778 Millennium Gold (wheel slot 9)<br>38–41 21 Gold Amber (wheel slot 10)<br>42–45 157 Pink (wheel slot 11)<br>46–49 110 Middle Rose (wheel slot 12)<br>50–53 109 Light Salmon (wheel slot 13)<br>54–57 35 Light Pink (wheel slot 14)<br>58–61 134 Golden Amber (wheel slot 15)<br>62–65 746 Brown (wheel slot 16)<br>66–69 105 Orange (wheel slot 17)<br>70–73 20 Medium Amber (wheel slot 18)<br>74–77 768 Egg Yolk Yellow (wheel slot 19)<br>78–81 15 Deep Straw (wheel slot 20)<br>82–85 767 Oklahoma Yellow (wheel slot 21)<br>86–89 101 Yellow (wheel slot 22)<br>90–93 100 Spring Yellow (wheel slot 23)<br>94–97 88 Lime Green (wheel slot 24)<br>98–101 121 LEE Green (wheel slot 25)<br>102–105 738 Jas Green (wheel slot 26)<br>106–109 89 Moss Green (wheel slot 27)<br>110–113 139 Primary Green (wheel slot 28)<br>114–117 124 Dark Green (wheel slot 29)<br>118–121 323 Jade (wheel slot 30)<br>122–125 354 Special Steel Blue (wheel slot 31)<br>126–129 116 Medium Blue-Green (wheel slot 32)<br>130–133 183 Moonlight Blue (wheel slot 33)<br>134–137 132 Medium Blue (wheel slot 34)<br>138–141 119 Dark Blue (wheel slot 35)<br>142–145 716 Mikkel Blue (wheel slot 36)<br>146–149 71 Tokyo Blue (wheel slot 37)<br>150–153 181 Congo Blue (wheel slot 38)<br>154–157 799 Special KH Lavender (wheel slot 39)<br>158–161 707 Ultimate Violet (wheel slot 40)<br>162–165 343 Special Medium Lavender (wheel slot 41)<br>166–169 798 Chrysalis Pink (wheel slot 42)<br>170–173 701 Provence (wheel slot 43)<br>174–177 797 Deep Purple (wheel slot 44)<br>178–181 48 Rose Purple (wheel slot 45)<br>182–185 345 Fuchsia Pink (wheel slot 46)<br>186–189 795 Magical Magenta (wheel slot 47)<br>190–193 128 Bright Pink (wheel slot 48)<br>194–197 2 Rose Pink (wheel slot 49)<br>198–201 2 Rose Pink (wheel slot 50)<br>202–207 User Color 1 (wheel slot 51)<br>208–213 User Color 2 (wheel slot 52)<br>214–219 User Color 3 (wheel slot 53)<br>220–225 User Color 4 (wheel slot 54)<br>226–231 User Color 5 (wheel slot 55)<br>232–237 User Color 6 (wheel slot 56)<br>238–243 User Color 7 (wheel slot 57)<br>244–249 User Color 8 (wheel slot 58)<br>250–255 No function (wheel slot 1) |

## 39CH HSI Pattern (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **14** | Color Mix MSpeed | 0 | 0–5 0s<br>6–105 1/10s - 10s<br>106–214 11s - 119s<br>215–244 2m - 4m50s<br>245–255 5m - 15m |
| **15** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **16** | Red | 255 | |
| **17** | Green | 255 | |
| **18** | Blue | 255 | |
| **19** | Shutter1Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 slow<br>22–22 fast<br>23–32 slow<br>33–33 fast<br>34–44 slow<br>45–45 fast<br>46–55 slow<br>56–56 fast<br>57–67 slow<br>68–68 fast<br>69–78 slow<br>79–79 fast<br>80–101 slow<br>102–102 fast<br>103–126 5s short burst with break<br>127–127 1s short burst with break<br>128–128 Slow 1Hz<br>129–249 1-20 Hz<br>250–250 Fast 20Hz<br>251–255 open |
| **20** | Pattern | 0 | 0–5 off (washlight Mode)<br>6–26 Nr 1<br>27–47 Nr 2<br>48–68 Nr 3<br>69–89 Nr 4<br>90–110 Nr 5<br>111–131 Nr 6<br>132–152 Nr 7<br>153–173 Nr 8<br>174–194 Nr 9<br>195–215 Nr 10<br>216–236 Nr 11<br>237–255 Nr 12 |
| **21** | Pattern Speed | 0 | 0–5 Stop<br>6–126 Chase slow forward<br>127–127 Chase fast forward<br>128–254 Fade fast Backward<br>255–255 Fade slow backward |
| **22** | Pattern Folder | 0 | 0–5 Off<br>6–64 Static Pattern 1<br>65–128 Static Pattern 2<br>129–192 Effect Pattern 1<br>193–255 Effect Pattern 2 |
| **23** | Pattern | 0 | 0–5 off (washlight Mode)<br>6–255 pattern Nr |

## 39CH HSI Pattern (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **24** | Pattern Speed | 0 | 0–5 Stop<br>6–127 slow to fast<br>128–255 fast to slow (backwards) |
| **25** | Pattern Transition | 0 | 0–5 Stop<br>6–255 1/10s - 5s |
| **26** | Pattern Fade | 0 | 0–5 off<br>6–127 Fade 0-100%<br>128–255 Wake 0-100% |
| **27** | Dimmer | 0 | |
| **28** | Dimmer Fine | 0 | Fine byte of Dimmer |
| **29** | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–32 Pulse random · slow 0.05–0.957 Hz<br>33–33 Pulse random · fast 1 Hz<br>34–55 Ramp up random · slow 0.1–1.91 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–78 Ramp down random · slow 0.05–1.91 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.0...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| **30** | H SBHue | 0 | |
| **31** | H SBHue Fine | 0 | Fine byte of H SBHue |
| **32** | H SBSaturation | 0 | 0–254 0% (White)<br>255–255 100% (Color) |
| **33** | C TC | 0 | 0–5 Off<br>6–6 Warm white<br>7–46 Warm white to 2700K<br>47–47 Bulb White (2700K)<br>48–87 2700K to 3200K<br>88–88 Halogen White (3200K)<br>89–128 3200K to 4000K<br>129–129 Neutral White (4000K)<br>130–169 4000K to 5600K<br>170–170 Studio White (5600K)<br>171–210 5600K to 6500K<br>211–211 Daylight White (6500K)<br>212–251 6500K to Cold white<br>252–255 Cold white |
| **34** | Tint | 128 | 0–0 Off<br>1–127 Magenta -> Neutral<br>128–128 Neutral<br>129–255 Neutral -> Green |

## 39CH HSI Pattern (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **35** | Color Wheel | 0 | 0–5 No function (wheel slot 1)<br>6–9 46 Dark Magenta (wheel slot 2)<br>10–13 29 Plasa Red (wheel slot 3)<br>14–17 26 Bright Red (wheel slot 4)<br>18–21 127 Smokey Pink (wheel slot 5)<br>22–25 36 Medium Pink (wheel slot 6)<br>26–29 19 Fire (wheel slot 7)<br>30–33 135 Deep Golden Amber (wheel slot 8)<br>34–37 778 Millennium Gold (wheel slot 9)<br>38–41 21 Gold Amber (wheel slot 10)<br>42–45 157 Pink (wheel slot 11)<br>46–49 110 Middle Rose (wheel slot 12)<br>50–53 109 Light Salmon (wheel slot 13)<br>54–57 35 Light Pink (wheel slot 14)<br>58–61 134 Golden Amber (wheel slot 15)<br>62–65 746 Brown (wheel slot 16)<br>66–69 105 Orange (wheel slot 17)<br>70–73 20 Medium Amber (wheel slot 18)<br>74–77 768 Egg Yolk Yellow (wheel slot 19)<br>78–81 15 Deep Straw (wheel slot 20)<br>82–85 767 Oklahoma Yellow (wheel slot 21)<br>86–89 101 Yellow (wheel slot 22)<br>90–93 100 Spring Yellow (wheel slot 23)<br>94–97 88 Lime Green (wheel slot 24)<br>98–101 121 LEE Green (wheel slot 25)<br>102–105 738 Jas Green (wheel slot 26)<br>106–109 89 Moss Green (wheel slot 27)<br>110–113 139 Primary Green (wheel slot 28)<br>114–117 124 Dark Green (wheel slot 29)<br>118–121 323 Jade (wheel slot 30)<br>122–125 354 Special Steel Blue (wheel slot 31)<br>126–129 116 Medium Blue-Green (wheel slot 32)<br>130–133 183 Moonlight Blue (wheel slot 33)<br>134–137 132 Medium Blue (wheel slot 34)<br>138–141 119 Dark Blue (wheel slot 35)<br>142–145 716 Mikkel Blue (wheel slot 36)<br>146–149 71 Tokyo Blue (wheel slot 37)<br>150–153 181 Congo Blue (wheel slot 38)<br>154–157 799 Special KH Lavender (wheel slot 39)<br>158–161 707 Ultimate Violet (wheel slot 40)<br>162–165 343 Special Medium Lavender (wheel slot 41)<br>166–169 798 Chrysalis Pink (wheel slot 42)<br>170–173 701 Provence (wheel slot 43)<br>174–177 797 Deep Purple (wheel slot 44)<br>178–181 48 Rose Purple (wheel slot 45)<br>182–185 345 Fuchsia Pink (wheel slot 46)<br>186–189 795 Magical Magenta (wheel slot 47)<br>190–193 128 Bright Pink (wheel slot 48)<br>194–197 2 Rose Pink (wheel slot 49)<br>198–201 2 Rose Pink (wheel slot 50)<br>202–207 User Color 1 (wheel slot 51)<br>208–213 User Color 2 (wheel slot 52)<br>214–219 User Color 3 (wheel slot 53)<br>220–225 User Color 4 (wheel slot 54)<br>226–231 User Color 5 (wheel slot 55)<br>232–237 User Color 6 (wheel slot 56)<br>238–243 User Color 7 (wheel slot 57)<br>244–249 User Color 8 (wheel slot 58)<br>250–255 No function (wheel slot 1) |

### 39CH HSI Pattern (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **36** | Color Mix MSpeed | 0 | 0–5 0s<br>6–105 1/10s - 10s<br>106–214 11s - 119s<br>215–244 2m - 4m50s<br>245–255 5m - 15m |
| **37** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **38** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **39** | Control1 | 0 | |

## 49CH RGBL Pattern

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** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **6** | Dimmer Fine | 0 | Fine byte of Dimmer |
| **7** | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| **8** | Red | 255 | |
| **9** | Red Fine | 255 | Fine byte of Red |
| **10** | Green | 255 | |
| **11** | Green Fine | 255 | Fine byte of Green |
| **12** | Blue | 255 | |
| **13** | Blue Fine | 255 | Fine byte of Blue |
| **14** | Color Add GY | 255 | |
| **15** | Color Add GY Fine | 255 | Fine byte of Color Add GY |

## 49CH RGBL Pattern (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **16** | C TC | 0 | 0–5 Off<br>6–6 Warm white<br>7–46 Warm white to 2700K<br>47–47 Bulb White (2700K)<br>48–87 2700K to 3200K<br>88–88 Halogen White (3200K)<br>89–128 3200K to 4000K<br>129–129 Neutral White (4000K)<br>130–169 4000K to 5600K<br>170–170 Studio White (5600K)<br>171–210 5600K to 6500K<br>211–211 Daylight White (6500K)<br>212–251 6500K to Cold white<br>252–255 Cold white |
| **17** | Tint | 128 | 0–0 Off<br>1–127 Magenta -> Neutral<br>128–128 Neutral<br>129–255 Neutral -> Green |

## 49CH RGBL Pattern (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **18** | Color Wheel | 0 | 0–5 No function (wheel slot 1)<br>6–9 46 Dark Magenta (wheel slot 2)<br>10–13 29 Plasa Red (wheel slot 3)<br>14–17 26 Bright Red (wheel slot 4)<br>18–21 127 Smokey Pink (wheel slot 5)<br>22–25 36 Medium Pink (wheel slot 6)<br>26–29 19 Fire (wheel slot 7)<br>30–33 135 Deep Golden Amber (wheel slot 8)<br>34–37 778 Millennium Gold (wheel slot 9)<br>38–41 21 Gold Amber (wheel slot 10)<br>42–45 157 Pink (wheel slot 11)<br>46–49 110 Middle Rose (wheel slot 12)<br>50–53 109 Light Salmon (wheel slot 13)<br>54–57 35 Light Pink (wheel slot 14)<br>58–61 134 Golden Amber (wheel slot 15)<br>62–65 746 Brown (wheel slot 16)<br>66–69 105 Orange (wheel slot 17)<br>70–73 20 Medium Amber (wheel slot 18)<br>74–77 768 Egg Yolk Yellow (wheel slot 19)<br>78–81 15 Deep Straw (wheel slot 20)<br>82–85 767 Oklahoma Yellow (wheel slot 21)<br>86–89 101 Yellow (wheel slot 22)<br>90–93 100 Spring Yellow (wheel slot 23)<br>94–97 88 Lime Green (wheel slot 24)<br>98–101 121 LEE Green (wheel slot 25)<br>102–105 738 Jas Green (wheel slot 26)<br>106–109 89 Moss Green (wheel slot 27)<br>110–113 139 Primary Green (wheel slot 28)<br>114–117 124 Dark Green (wheel slot 29)<br>118–121 323 Jade (wheel slot 30)<br>122–125 354 Special Steel Blue (wheel slot 31)<br>126–129 116 Medium Blue-Green (wheel slot 32)<br>130–133 183 Moonlight Blue (wheel slot 33)<br>134–137 132 Medium Blue (wheel slot 34)<br>138–141 119 Dark Blue (wheel slot 35)<br>142–145 716 Mikkel Blue (wheel slot 36)<br>146–149 71 Tokyo Blue (wheel slot 37)<br>150–153 181 Congo Blue (wheel slot 38)<br>154–157 799 Special KH Lavender (wheel slot 39)<br>158–161 707 Ultimate Violet (wheel slot 40)<br>162–165 343 Special Medium Lavender (wheel slot 41)<br>166–169 798 Chrysalis Pink (wheel slot 42)<br>170–173 701 Provence (wheel slot 43)<br>174–177 797 Deep Purple (wheel slot 44)<br>178–181 48 Rose Purple (wheel slot 45)<br>182–185 345 Fuchsia Pink (wheel slot 46)<br>186–189 795 Magical Magenta (wheel slot 47)<br>190–193 128 Bright Pink (wheel slot 48)<br>194–197 2 Rose Pink (wheel slot 49)<br>198–201 2 Rose Pink (wheel slot 50)<br>202–207 User Color 1 (wheel slot 51)<br>208–213 User Color 2 (wheel slot 52)<br>214–219 User Color 3 (wheel slot 53)<br>220–225 User Color 4 (wheel slot 54)<br>226–231 User Color 5 (wheel slot 55)<br>232–237 User Color 6 (wheel slot 56)<br>238–243 User Color 7 (wheel slot 57)<br>244–249 User Color 8 (wheel slot 58)<br>250–255 No function (wheel slot 1) |

## 49CH RGBL Pattern (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **19** | Color Mix MSpeed | 0 | 0–5 0s<br>6–105 1/10s - 10s<br>106–214 11s - 119s<br>215–244 2m - 4m50s<br>245–255 5m - 15m |
| **20** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **21** | Red | 255 | |
| **22** | Green | 255 | |
| **23** | Blue | 255 | |
| **24** | Shutter1Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 slow<br>22–22 fast<br>23–32 slow<br>33–33 fast<br>34–44 slow<br>45–45 fast<br>46–55 slow<br>56–56 fast<br>57–67 slow<br>68–68 fast<br>69–78 slow<br>79–79 fast<br>80–101 slow<br>102–102 fast<br>103–126 5s short burst with break<br>127–127 1s short burst with break<br>128–128 Slow 1Hz<br>129–249 1-20 Hz<br>250–250 Fast 20Hz<br>251–255 open |
| **25** | Pattern | 0 | 0–5 off (washlight Mode)<br>6–26 Nr 1<br>27–47 Nr 2<br>48–68 Nr 3<br>69–89 Nr 4<br>90–110 Nr 5<br>111–131 Nr 6<br>132–152 Nr 7<br>153–173 Nr 8<br>174–194 Nr 9<br>195–215 Nr 10<br>216–236 Nr 11<br>237–255 Nr 12 |
| **26** | Pattern Speed | 0 | 0–5 Stop<br>6–126 Chase slow forward<br>127–127 Chase fast forward<br>128–254 Fade fast Backward<br>255–255 Fade slow backward |
| **27** | Pattern Folder | 0 | 0–5 Off<br>6–64 Static Pattern 1<br>65–128 Static Pattern 2<br>129–192 Effect Pattern 1<br>193–255 Effect Pattern 2 |
| **28** | Pattern | 0 | 0–5 off (washlight Mode)<br>6–255 pattern Nr |

## 49CH RGBL Pattern (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **29** | Pattern Speed | 0 | 0–5 Stop<br>6–127 slow to fast<br>128–255 fast to slow (backwards) |
| **30** | Pattern Transition | 0 | 0–5 Stop<br>6–255 1/10s - 5s |
| **31** | Pattern Fade | 0 | 0–5 off<br>6–127 Fade 0-100%<br>128–255 Wake 0-100% |
| **32** | Dimmer | 0 | |
| **33** | Dimmer Fine | 0 | Fine byte of Dimmer |
| **34** | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–32 Pulse random · slow 0.05–0.957 Hz<br>33–33 Pulse random · fast 1 Hz<br>34–55 Ramp up random · slow 0.1–1.91 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–78 Ramp down random · slow 0.05–1.91 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.0...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| **35** | Red | 255 | |
| **36** | Red Fine | 255 | Fine byte of Red |
| **37** | Green | 255 | |
| **38** | Green Fine | 255 | Fine byte of Green |
| **39** | Blue | 255 | |
| **40** | Blue Fine | 255 | Fine byte of Blue |
| **41** | Color Add GY | 255 | |
| **42** | Color Add GY Fine | 255 | Fine byte of Color Add GY |
| **43** | C TC | 0 | 0–5 Off<br>6–6 Warm white<br>7–46 Warm white to 2700K<br>47–47 Bulb White (2700K)<br>48–87 2700K to 3200K<br>88–88 Halogen White (3200K)<br>89–128 3200K to 4000K<br>129–129 Neutral White (4000K)<br>130–169 4000K to 5600K<br>170–170 Studio White (5600K)<br>171–210 5600K to 6500K<br>211–211 Daylight White (6500K)<br>212–251 6500K to Cold white<br>252–255 Cold white |
| **44** | Tint | 128 | 0–0 Off<br>1–127 Magenta -> Neutral<br>128–128 Neutral<br>129–255 Neutral -> Green |

## 49CH RGBL Pattern (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **45** | Color Wheel | 0 | 0–5 No function (wheel slot 1)<br>6–9 46 Dark Magenta (wheel slot 2)<br>10–13 29 Plasa Red (wheel slot 3)<br>14–17 26 Bright Red (wheel slot 4)<br>18–21 127 Smokey Pink (wheel slot 5)<br>22–25 36 Medium Pink (wheel slot 6)<br>26–29 19 Fire (wheel slot 7)<br>30–33 135 Deep Golden Amber (wheel slot 8)<br>34–37 778 Millennium Gold (wheel slot 9)<br>38–41 21 Gold Amber (wheel slot 10)<br>42–45 157 Pink (wheel slot 11)<br>46–49 110 Middle Rose (wheel slot 12)<br>50–53 109 Light Salmon (wheel slot 13)<br>54–57 35 Light Pink (wheel slot 14)<br>58–61 134 Golden Amber (wheel slot 15)<br>62–65 746 Brown (wheel slot 16)<br>66–69 105 Orange (wheel slot 17)<br>70–73 20 Medium Amber (wheel slot 18)<br>74–77 768 Egg Yolk Yellow (wheel slot 19)<br>78–81 15 Deep Straw (wheel slot 20)<br>82–85 767 Oklahoma Yellow (wheel slot 21)<br>86–89 101 Yellow (wheel slot 22)<br>90–93 100 Spring Yellow (wheel slot 23)<br>94–97 88 Lime Green (wheel slot 24)<br>98–101 121 LEE Green (wheel slot 25)<br>102–105 738 Jas Green (wheel slot 26)<br>106–109 89 Moss Green (wheel slot 27)<br>110–113 139 Primary Green (wheel slot 28)<br>114–117 124 Dark Green (wheel slot 29)<br>118–121 323 Jade (wheel slot 30)<br>122–125 354 Special Steel Blue (wheel slot 31)<br>126–129 116 Medium Blue-Green (wheel slot 32)<br>130–133 183 Moonlight Blue (wheel slot 33)<br>134–137 132 Medium Blue (wheel slot 34)<br>138–141 119 Dark Blue (wheel slot 35)<br>142–145 716 Mikkel Blue (wheel slot 36)<br>146–149 71 Tokyo Blue (wheel slot 37)<br>150–153 181 Congo Blue (wheel slot 38)<br>154–157 799 Special KH Lavender (wheel slot 39)<br>158–161 707 Ultimate Violet (wheel slot 40)<br>162–165 343 Special Medium Lavender (wheel slot 41)<br>166–169 798 Chrysalis Pink (wheel slot 42)<br>170–173 701 Provence (wheel slot 43)<br>174–177 797 Deep Purple (wheel slot 44)<br>178–181 48 Rose Purple (wheel slot 45)<br>182–185 345 Fuchsia Pink (wheel slot 46)<br>186–189 795 Magical Magenta (wheel slot 47)<br>190–193 128 Bright Pink (wheel slot 48)<br>194–197 2 Rose Pink (wheel slot 49)<br>198–201 2 Rose Pink (wheel slot 50)<br>202–207 User Color 1 (wheel slot 51)<br>208–213 User Color 2 (wheel slot 52)<br>214–219 User Color 3 (wheel slot 53)<br>220–225 User Color 4 (wheel slot 54)<br>226–231 User Color 5 (wheel slot 55)<br>232–237 User Color 6 (wheel slot 56)<br>238–243 User Color 7 (wheel slot 57)<br>244–249 User Color 8 (wheel slot 58)<br>250–255 No function (wheel slot 1) |

### 49CH RGBL Pattern (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **46** | Color Mix MSpeed | 0 | 0–5 0s<br>6–105 1/10s - 10s<br>106–214 11s - 119s<br>215–244 2m - 4m50s<br>245–255 5m - 15m |
| **47** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **48** | Zoom | 127 | 0–126 Narrow<br>127–254 Mid<br>255–255 Wide |
| **49** | Control1 | 0 | |

## 100CH RGBL Pixel

79 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** | Dimmer | 0 | |
| **6** | Dimmer Fine | 0 | Fine byte of Dimmer |
| **7** | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| **8** | Dimmer | 0 | |

## 100CH RGBL Pixel (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 9 | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| 10 | Zoom | 127 | |
| 11 | Zoom | 127 | |
| 12 | Control1 | 0 | |
| 13 | Red | 255 | |
| 14 | Green | 255 | |
| 15 | Blue | 255 | |
| 16 | Color Add GY | 255 | |
| 17 | Reserved 17 | 0 | |
| 18 | Reserved 18 | 0 | |
| 19 | Reserved 19 | 0 | |
| 20 | Reserved 20 | 0 | |
| 21 | Reserved 21 | 0 | |
| 22 | Reserved 22 | 0 | |
| 23 | Reserved 23 | 0 | |
| 24 | Reserved 24 | 0 | |
| 25 | Reserved 25 | 0 | |
| 26 | Reserved 26 | 0 | |
| 27 | Reserved 27 | 0 | |
| 28 | Reserved 28 | 0 | |
| 29 | Reserved 29 | 0 | |
| 30 | Reserved 30 | 0 | |
| 31 | Reserved 31 | 0 | |
| 32 | Reserved 32 | 0 | |
| 33 | Reserved 33 | 0 | |
| 34 | Reserved 34 | 0 | |
| 35 | Reserved 35 | 0 | |
| 36 | Reserved 36 | 0 | |
| 37 | Reserved 37 | 0 | |
| 38 | Reserved 38 | 0 | |

## 100CH RGBL Pixel (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **39** | Reserved 39 | 0 | |
| **40** | Reserved 40 | 0 | |
| **41** | Reserved 41 | 0 | |
| **42** | Reserved 42 | 0 | |
| **43** | Reserved 43 | 0 | |
| **44** | Reserved 44 | 0 | |
| **45** | Reserved 45 | 0 | |
| **46** | Reserved 46 | 0 | |
| **47** | Reserved 47 | 0 | |
| **48** | Reserved 48 | 0 | |
| **49** | Reserved 49 | 0 | |
| **50** | Reserved 50 | 0 | |
| **51** | Reserved 51 | 0 | |
| **52** | Reserved 52 | 0 | |
| **53** | Reserved 53 | 0 | |
| **54** | Reserved 54 | 0 | |
| **55** | Reserved 55 | 0 | |
| **56** | Reserved 56 | 0 | |
| **57** | Reserved 57 | 0 | |
| **58** | Reserved 58 | 0 | |
| **59** | Reserved 59 | 0 | |
| **60** | Reserved 60 | 0 | |
| **61** | Reserved 61 | 0 | |
| **62** | Reserved 62 | 0 | |
| **63** | Reserved 63 | 0 | |
| **64** | Reserved 64 | 0 | |
| **65** | Reserved 65 | 0 | |
| **66** | Reserved 66 | 0 | |
| **67** | Reserved 67 | 0 | |
| **68** | Reserved 68 | 0 | |
| **69** | Reserved 69 | 0 | |
| **70** | Reserved 70 | 0 | |
| **71** | Reserved 71 | 0 | |
| **72** | Reserved 72 | 0 | |
| **73** | Reserved 73 | 0 | |
| **74** | Reserved 74 | 0 | |
| **75** | Reserved 75 | 0 | |
| **76** | Reserved 76 | 0 | |
| **77** | Red | 255 | |
| **78** | Green | 255 | |
| **79** | Blue | 255 | |

# 290CH RGBL Pixel Full

89 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 | Dimmer | 0 | |
| 6 | Dimmer Fine | 0 | Fine byte of Dimmer |
| 7 | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–…<br>127–127 Strobe break effect · 1s short burst with break 0.5 …<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| 8 | Red | 255 | |
| 9 | Red Fine | 255 | Fine byte of Red |
| 10 | Green | 255 | |
| 11 | Green Fine | 255 | Fine byte of Green |
| 12 | Blue | 255 | |
| 13 | Blue Fine | 255 | Fine byte of Blue |
| 14 | Color Add GY | 255 | |
| 15 | Color Add GY Fine | 255 | Fine byte of Color Add GY |
| 16 | C TC | 0 | |
| 17 | Tint | 128 | |
| 18 | Dimmer | 0 | |

## 290CH RGBL Pixel Full (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **19** | Shutter / Strobe | 0 | 0–9 open<br>10–10 closed<br>11–21 Ramp up/down strobe · slow 0.1–0.918 Hz<br>22–22 Ramp up/down strobe · fast 1 Hz<br>23–32 Ramp up/down random · slow 0.1–0.91 Hz<br>33–33 Ramp up/down random · fast 1 Hz<br>34–44 Ramp up strobe · slow 0.1–0.918 Hz<br>45–45 Ramp up strobe · fast 1 Hz<br>46–55 Ramp up random · slow 0.1–1.81 Hz<br>56–56 Ramp up random · fast 2 Hz<br>57–67 Ramp down strobe · slow 0.1–1.83 Hz<br>68–68 Ramp down strobe · fast 2 Hz<br>69–78 Ramp down random · slow 0.05–1.8 Hz<br>79–79 Ramp down random · fast 2 Hz<br>80–101 Random strobe effect · slow 0.2–3.83 Hz<br>102–102 Random strobe effect · fast 4 Hz<br>103–126 Strobe break effect · 5s short burst with break 0.1–...<br>127–127 Strobe break effect · 1s short burst with break 0.5 ...<br>128–128 Strobe linear · Slow 1Hz 2 Hz<br>129–249 Strobe linear · 1-20 Hz 2.11–14.9 Hz<br>250–250 Strobe linear · Fast 20Hz 15 Hz<br>251–255 open |
| **20** | Zoom | 127 | |
| **21** | Zoom | 127 | |
| **22** | Control1 | 0 | |
| **23** | Red | 255 | |
| **24** | Green | 255 | |
| **25** | Blue | 255 | |
| **26** | Color Add GY | 255 | |
| **27** | Reserved 27 | 0 | |
| **28** | Reserved 28 | 0 | |
| **29** | Reserved 29 | 0 | |
| **30** | Reserved 30 | 0 | |
| **31** | Reserved 31 | 0 | |
| **32** | Reserved 32 | 0 | |
| **33** | Reserved 33 | 0 | |
| **34** | Reserved 34 | 0 | |
| **35** | Reserved 35 | 0 | |
| **36** | Reserved 36 | 0 | |
| **37** | Reserved 37 | 0 | |
| **38** | Reserved 38 | 0 | |
| **39** | Reserved 39 | 0 | |
| **40** | Reserved 40 | 0 | |
| **41** | Reserved 41 | 0 | |
| **42** | Reserved 42 | 0 | |
| **43** | Reserved 43 | 0 | |
| **44** | Reserved 44 | 0 | |
| **45** | Reserved 45 | 0 | |
| **46** | Reserved 46 | 0 | |
| **47** | Reserved 47 | 0 | |
| **48** | Reserved 48 | 0 | |

## 290CH RGBL Pixel Full (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **49** | Reserved 49 | 0 | |
| **50** | Reserved 50 | 0 | |
| **51** | Reserved 51 | 0 | |
| **52** | Reserved 52 | 0 | |
| **53** | Reserved 53 | 0 | |
| **54** | Reserved 54 | 0 | |
| **55** | Reserved 55 | 0 | |
| **56** | Reserved 56 | 0 | |
| **57** | Reserved 57 | 0 | |
| **58** | Reserved 58 | 0 | |
| **59** | Reserved 59 | 0 | |
| **60** | Reserved 60 | 0 | |
| **61** | Reserved 61 | 0 | |
| **62** | Reserved 62 | 0 | |
| **63** | Reserved 63 | 0 | |
| **64** | Reserved 64 | 0 | |
| **65** | Reserved 65 | 0 | |
| **66** | Reserved 66 | 0 | |
| **67** | Reserved 67 | 0 | |
| **68** | Reserved 68 | 0 | |
| **69** | Reserved 69 | 0 | |
| **70** | Reserved 70 | 0 | |
| **71** | Reserved 71 | 0 | |
| **72** | Reserved 72 | 0 | |
| **73** | Reserved 73 | 0 | |
| **74** | Reserved 74 | 0 | |
| **75** | Reserved 75 | 0 | |
| **76** | Reserved 76 | 0 | |
| **77** | Reserved 77 | 0 | |
| **78** | Reserved 78 | 0 | |
| **79** | Reserved 79 | 0 | |
| **80** | Reserved 80 | 0 | |
| **81** | Reserved 81 | 0 | |
| **82** | Reserved 82 | 0 | |
| **83** | Reserved 83 | 0 | |
| **84** | Reserved 84 | 0 | |
| **85** | Reserved 85 | 0 | |
| **86** | Reserved 86 | 0 | |
| **87** | Red | 255 | |
| **88** | Green | 255 | |
| **89** | Blue | 255 | |