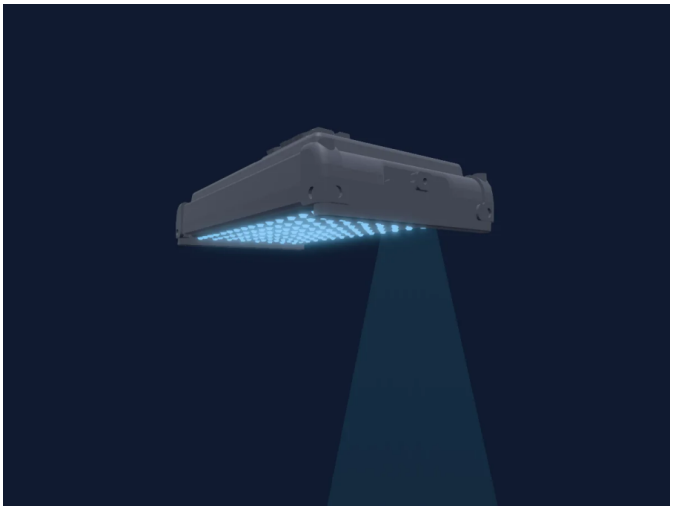
OGSON fixtures

# Creamsource Space X



| | |
|---|---|
| Manufacturer | **OGSON fixtures** |
| Type | **Effect light** |
| DMX modes | **30** |
| DMX footprint | **4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 18, 19, 20, 25 channels** |
| Beam angle | **25°** |
| Size (W × H × D) | **695 × 164 × 380 mm** |
| GDTF fixture type | **45D1413F-1CBB-4FA0-AE68-05…** |

## Controls

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

## Safety-relevant functions

Service functions · Built-in effect programmes

## DMX modes

| | |
|---|---|
| Mode 11: CIE xy (4ch) 8 Bit | 4 ch |
| Mode 2: CCT (4ch) 8 Bit | 4 ch |
| Mode 5: Hue/Saturation (4ch) 8 Bit | 4 ch |
| Mode 21: Gels (5ch) 8 Bit | 5 ch |
| Mode 24: Gels (6ch) 16 Bit | 6 ch |
| Mode 10: Hue/Saturation (7ch) 16 Bit | 7 ch |
| Mode 12: CCT CIE xy (7ch) 8 Bit | 7 ch |
| Mode 13: CIE xy (7ch) 16 Bit | 7 ch |
| Mode 3: CCT Hue/Saturation (7ch) 8 Bit | 7 ch |
| Mode 4: RGBW (7ch) 8 Bit | 7 ch |
| Mode 7: CCT (7ch) 16 Bit | 7 ch |
| Mode 22: CCT Gels (8 Ch) 8 Bit | 8 ch |
| Mode 27: Gels Colour Bump(9ch) 8 Bit | 9 ch |
| Mode 1: CCT RGBW (10ch) 8 Bit | 10 ch |
| Mode 25: CCT Gels (12 Ch) 16 Bit | 12 ch |
| Mode 28: CCT and Gels Colour Bump(12ch) 8 Bit | 12 ch |
| Mode 14: CCT CIE xy (13ch) 16 Bit | 13 ch |
| Mode 15: CCT Hue/Saturation Effects (13ch) 8 Bit | 13 ch |
| Mode 17: CCT CIE xy Effects (13ch) 8 Bit | 13 ch |
| Mode 8: CCT Hue/Saturation (13ch) 16 Bit | 13 ch |
| Mode 9: RGBW (13ch) 16 Bit | 13 ch |
| Mode 29: Gels Colour Bump(14ch) 16 Bit | 14 ch |
| Mode 23: CCT Gels Effects (15 Ch) 8 Bit | 15 ch |
| Mode 16: CCT RGBW Effects (16ch) 8 Bit | 16 ch |

| | |
|---|---|
| Mode 26:  CCT Gels Effects (18 Ch) 16 Bit | 18 ch |
| Mode 18: CCT Hue/Saturation Effects (19ch) 16 Bit | 19 ch |
| Mode 20:  CCT CIE xy Effects (19ch) 16 Bit | 19 ch |
| Mode 6: CCT  RGBW (19ch) 16 Bit | 19 ch |
| Mode 30:  CCT and Gels Colour Bump(20ch) 16 Bit | 20 ch |
| Mode 19: CCT  RGBW Effects (25ch) 16 Bit | 25 ch |

## Mode 11: CIE xy (4ch) 8 Bit

4 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | C IEX | 105 | |
| 3 | C IEY | 108 | |
| 4 | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 2: CCT (4ch) 8 Bit

4 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | C TC | 68 | 0–5 2200<br>6–11 2500<br>12–15 2800<br>16–19 3000<br>20–25 3200<br>26–31 3500<br>32–35 3800<br>36–39 4000<br>40–45 4200<br>46–51 4500<br>52–55 4800<br>56–59 5000<br>60–63 5200<br>64–67 5400<br>68–75 5600<br>76–79 6000<br>80–85 6200<br>86–91 6500<br>92–95 6800<br>96–105 7000<br>106–115 7500<br>116–125 8000<br>126–134 8500<br>135–144 9000<br>145–154 9500<br>155–164 10000<br>165–174 10500<br>175–184 11000<br>185–194 11500<br>195–204 12000<br>205–214 12500<br>215–224 13000<br>225–234 13500<br>235–244 14000<br>245–254 14500<br>255–255 15000 |

### Mode 2: CCT (4ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 3 | Tint | 0 | 0–10 No effect<br>11–11 -100 Green<br>12–131 -100 to 1 Green<br>132–132 -1 Green<br>133–133 Neutral<br>134–134 +1 Green<br>135–254 +1 to +100 Green<br>255–255 + 100 Green |
| 4 | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 5: Hue/Saturation (4ch) 8 Bit

4 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | H SBHue | 0 | 0–41 0deg Red<br>42–84 60deg Yellow<br>85–126 120deg Green<br>127–169 180deg Cyan<br>170–211 240deg Blue<br>212–254 300deg Magenta<br>255–255 360deg Red |
| 3 | H SBSaturation | 0 | |
| 4 | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 21: Gels (5ch) 8 Bit

5 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | Gel Library | 0 | 0–9 Lee Colour Filters<br>10–19 Lee Cosmetic<br>20–29 Lee 600 Series<br>30–39 Lee 700 Series<br>40–49 Lee Colour Correction<br>50–59 Rosco Cinelux<br>60–69 Rosco CalColour<br>70–79 Rosco Storaro Selection<br>80–89 Rosco Colour Correction<br>90–255 RESERVED |
| 3 | Gel Swatch | 0 | |
| 4 | Lamp Source | 255 | 0–127 3200k Source<br>128–255 5600k Source |

### Mode 21: Gels (5ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 5 | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 24: Gels (6ch) 16 Bit

6 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | Dimmer Fine | 0 | Fine byte of Dimmer |
| 3 | Gel Library | 0 | 0–9 Lee Colour Filters<br>10–19 Lee Cosmetic<br>20–29 Lee 600 Series<br>30–39 Lee 700 Series<br>40–49 Lee Colour Correction<br>50–59 Rosco Cinelux<br>60–69 Rosco CalColour<br>70–79 Rosco Storaro Selection<br>80–89 Rosco Colour Correction<br>90–255 RESERVED |
| 4 | Gel Swatch | 0 | |
| 5 | Lamp Source | 255 | 0–127 3200k Source<br>128–255 5600k Source |
| 6 | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 10: Hue/Saturation (7ch) 16 Bit

7 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | Dimmer Fine | 0 | Fine byte of Dimmer |
| 3 | H SBHue | 0 | 0–41 0deg Red<br>42–84 60deg Yellow<br>85–127 120deg Green<br>128–169 180deg Cyan<br>170–212 240deg Blue<br>213–254 300deg Magenta<br>255–255 360deg Red |
| 4 | H SBHue Fine | 0 | Fine byte of H SBHue |
| 5 | H SBSaturation | 0 | |
| 6 | H SBSaturation Fine | 0 | Fine byte of H SBSaturation |
| 7 | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 12: CCT CIE xy (7ch) 8 Bit

7 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | C TC | 68 | 0–5 2200<br>6–11 2500<br>12–15 2800<br>16–19 3000<br>20–25 3200<br>26–31 3500<br>32–35 3800<br>36–39 4000<br>40–45 4200<br>46–51 4500<br>52–55 4800<br>56–59 5000<br>60–63 5200<br>64–67 5400<br>68–75 5600<br>76–79 6000<br>80–85 6200<br>86–91 6500<br>92–95 6800<br>96–105 7000<br>106–115 7500<br>116–125 8000<br>126–134 8500<br>135–144 9000<br>145–154 9500<br>155–164 10000<br>165–174 10500<br>175–184 11000<br>185–194 11500<br>195–204 12000<br>205–214 12500<br>215–224 13000<br>225–234 13500<br>235–244 14000<br>245–254 14500<br>255–255 15000 |
| 3 | Tint | 0 | 0–10 No effect<br>11–11 -100 Green<br>12–131 -100 to 1 Green<br>132–132 -1 Green<br>133–133 Neutral<br>134–134 +1 Green<br>135–254 +1 to +100 Green<br>255–255 + 100 Green |
| 4 | Crossfade | 0 | 0–254 White<br>255–255 Color |
| 5 | C IEX | 105 | |
| 6 | C IEY | 108 | |
| 7 | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 13: CIE xy (7ch) 16 Bit

7 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | Dimmer Fine | 0 | Fine byte of Dimmer |
| 3 | C IEX | 105 | |
| 4 | C IEX Fine | 170 | Fine byte of C IEX |
| 5 | C IEY | 108 | |
| 6 | C IEY Fine | 129 | Fine byte of C IEY |
| 7 | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 3: CCT Hue/Saturation (7ch) 8 Bit

7 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | C TC | 68 | 0–5 2200<br>6–11 2500<br>12–15 2800<br>16–19 3000<br>20–25 3200<br>26–31 3500<br>32–35 3800<br>36–39 4000<br>40–45 4200<br>46–51 4500<br>52–55 4800<br>56–59 5000<br>60–63 5200<br>64–67 5400<br>68–75 5600<br>76–79 6000<br>80–85 6200<br>86–91 6500<br>92–95 6800<br>96–105 7000<br>106–115 7500<br>116–125 8000<br>126–134 8500<br>135–144 9000<br>145–154 9500<br>155–164 10000<br>165–174 10500<br>175–184 11000<br>185–194 11500<br>195–204 12000<br>205–214 12500<br>215–224 13000<br>225–234 13500<br>235–244 14000<br>245–254 14500<br>255–255 15000 |

### Mode 3: CCT Hue/Saturation (7ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 3 | Tint | 0 | 0–10 No effect<br>11–11 -100 Green<br>12–131 -100 to 1 Green<br>132–132 -1 Green<br>133–133 Neutral<br>134–134 +1 Green<br>135–254 +1 to +100 Green<br>255–255 + 100 Green |
| 4 | Crossfade | 0 | 0–254 White<br>255–255 Color |
| 5 | H SBHue | 0 | 0–41 0deg Red<br>42–84 60deg Yellow<br>85–126 120deg Green<br>127–169 180deg Cyan<br>170–211 240deg Blue<br>212–254 300deg Magenta<br>255–255 360deg Red |
| 6 | H SBSaturation | 0 | |
| 7 | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 4: RGBW (7ch) 8 Bit

7 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | Red | 255 | |
| 3 | Green | 255 | |
| 4 | Blue | 255 | |
| 5 | White | 0 | |
| 6 | Color Add RY | 0 | |
| 7 | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 7: CCT (7ch) 16 Bit

7 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | Dimmer Fine | 0 | Fine byte of Dimmer |

### Mode 7: CCT (7ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **3** | C TC | 68 | 0–5 2200<br>6–11 2500<br>12–15 2800<br>16–19 3000<br>20–25 3200<br>26–31 3500<br>32–35 3800<br>36–39 4000<br>40–45 4200<br>46–51 4500<br>52–55 4800<br>56–59 5000<br>60–63 5200<br>64–67 5400<br>68–75 5600<br>76–79 6000<br>80–85 6200<br>86–91 6500<br>92–95 6800<br>96–105 7000<br>106–115 7500<br>116–125 8000<br>126–135 8500<br>136–144 9000<br>145–155 9500<br>156–164 10000<br>165–175 10500<br>176–184 11000<br>185–195 11500<br>196–205 12000<br>206–215 12500<br>216–225 13000<br>226–235 13500<br>236–245 14000<br>246–254 14500<br>255–255 15000 |
| **4** | C TC Fine | 0 | Fine byte of C TC |
| **5** | Tint | 0 | 0–18 No effect<br>19–136 -100 Green<br>137–254 -1 Green<br>255–255 + 100 Green |
| **6** | Tint Fine | 0 | Fine byte of Tint |
| **7** | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 22: CCT Gels (8 Ch) 8 Bit

8 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |

## Mode 22: CCT Gels (8 Ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 2 | C TC | 68 | 0–5 2200<br>6–11 2500<br>12–15 2800<br>16–19 3000<br>20–25 3200<br>26–31 3500<br>32–35 3800<br>36–39 4000<br>40–45 4200<br>46–51 4500<br>52–55 4800<br>56–59 5000<br>60–63 5200<br>64–67 5400<br>68–75 5600<br>76–79 6000<br>80–85 6200<br>86–91 6500<br>92–95 6800<br>96–105 7000<br>106–115 7500<br>116–125 8000<br>126–134 8500<br>135–144 9000<br>145–154 9500<br>155–164 10000<br>165–174 10500<br>175–184 11000<br>185–194 11500<br>195–204 12000<br>205–214 12500<br>215–224 13000<br>225–234 13500<br>235–244 14000<br>245–254 14500<br>255–255 15000 |
| 3 | Tint | 0 | 0–10 No effect<br>11–11 -100 Green<br>12–131 -100 to 1 Green<br>132–132 -1 Green<br>133–133 Neutral<br>134–134 +1 Green<br>135–254 +1 to +100 Green<br>255–255 + 100 Green |
| 4 | Crossfade | 0 | 0–254 White<br>255–255 Color |
| 5 | Gel Library | 0 | 0–9 Lee Colour Filters<br>10–19 Lee Cosmetic<br>20–29 Lee 600 Series<br>30–39 Lee 700 Series<br>40–49 Lee Colour Correction<br>50–59 Rosco Cinelux<br>60–69 Rosco CalColour<br>70–79 Rosco Storaro Selection<br>80–89 Rosco Colour Correction<br>90–255 RESERVED |
| 6 | Gel Swatch | 0 | |
| 7 | Lamp Source | 255 | 0–127 3200k Source<br>128–255 5600k Source |

### Mode 22: CCT Gels (8 Ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 8 | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 27: Gels Colour Bump(9ch) 8 Bit

9 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | Gel Library | 0 | 0–9 Lee Colour Filters<br>10–19 Lee Cosmetic<br>20–29 Lee 600 Series<br>30–39 Lee 700 Series<br>40–49 Lee Colour Correction<br>50–59 Rosco Cinelux<br>60–69 Rosco CalColour<br>70–79 Rosco Storaro Selection<br>80–89 Rosco Colour Correction<br>90–255 RESERVED |
| 3 | Gel Swatch | 0 | |
| 4 | Lamp Source | 255 | 0–127 3200k Source<br>128–255 5600k Source |
| 5 | Red | 134 | 0–10 No Value<br>11–131 Cyan 100%<br>132–133 Cyan 0%<br>134–134 Neutral<br>135–253 Red 0%<br>254–255 Red 100% |
| 6 | Green | 134 | 0–10 No Value<br>11–131 Magenta 100%<br>132–133 Magenta 0%<br>134–134 Neutral<br>135–253 Green 0%<br>254–255 Green 100% |
| 7 | Blue | 134 | 0–10 No Value<br>11–131 Yellow 100%<br>132–133 Yellow 0%<br>134–134 Neutral<br>135–253 Blue 0%<br>254–255 Blue 100% |
| 8 | H SBSaturation | 134 | 0–10 Neutral 0%<br>11–131 -100% Saturation<br>132–133 Saturation 0% Neg<br>134–134 Neutral 50%<br>135–253 Saturation 0% Pos<br>254–255 Saturation 100% |
| 9 | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 1: CCT  RGBW (10ch) 8 Bit

10 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254  Closed<br>255–255  Open |
| 2 | C TC | 68 | 0–5  2200<br>6–11  2500<br>12–15  2800<br>16–19  3000<br>20–25  3200<br>26–31  3500<br>32–35  3800<br>36–39  4000<br>40–45  4200<br>46–51  4500<br>52–55  4800<br>56–59  5000<br>60–63  5200<br>64–67  5400<br>68–75  5600<br>76–79  6000<br>80–85  6200<br>86–91  6500<br>92–95  6800<br>96–105  7000<br>106–115  7500<br>116–125  8000<br>126–134  8500<br>135–144  9000<br>145–154  9500<br>155–164  10000<br>165–174  10500<br>175–184  11000<br>185–194  11500<br>195–204  12000<br>205–214  12500<br>215–224  13000<br>225–234  13500<br>235–244  14000<br>245–254  14500<br>255–255  15000 |
| 3 | Tint | 0 | 0–10  No effect<br>11–11  -100 Green<br>12–131  -100 to 1 Green<br>132–132  -1 Green<br>133–133  Neutral<br>134–134  +1 Green<br>135–254  +1 to +100 Green<br>255–255  + 100 Green |
| 4 | Crossfade | 0 | 0–254  White<br>255–255  Color |
| 5 | Red | 255 | |
| 6 | Green | 255 | |
| 7 | Blue | 255 | |
| 8 | White | 0 | |
| 9 | Color Add RY | 0 | |
| 10 | Fans | 0 | 0–9  Auto<br>10–49  Quiet<br>50–99  Medium<br>100–149  Fast<br>150–249  Reserved<br>250–255  Pause |

## Mode 25: CCT Gels (12 Ch) 16 Bit

12 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | Dimmer Fine | 0 | Fine byte of Dimmer |
| 3 | C TC | 68 | 0–5 2200<br>6–11 2500<br>12–15 2800<br>16–19 3000<br>20–25 3200<br>26–31 3500<br>32–35 3800<br>36–39 4000<br>40–45 4200<br>46–51 4500<br>52–55 4800<br>56–59 5000<br>60–63 5200<br>64–67 5400<br>68–75 5600<br>76–79 6000<br>80–85 6200<br>86–91 6500<br>92–95 6800<br>96–105 7000<br>106–115 7500<br>116–125 8000<br>126–135 8500<br>136–144 9000<br>145–155 9500<br>156–164 10000<br>165–175 10500<br>176–184 11000<br>185–195 11500<br>196–205 12000<br>206–215 12500<br>216–225 13000<br>226–235 13500<br>236–245 14000<br>246–254 14500<br>255–255 15000 |
| 4 | C TC Fine | 0 | Fine byte of C TC |
| 5 | Tint | 0 | 0–18 No effect<br>19–136 -100 Green<br>137–254 -1 Green<br>255–255 + 100 Green |
| 6 | Tint Fine | 0 | Fine byte of Tint |
| 7 | Crossfade | 0 | 0–254 White<br>255–255 Color |
| 8 | Crossfade Fine | 0 | Fine byte of Crossfade |
| 9 | Gel Library | 0 | 0–9 Lee Colour Filters<br>10–19 Lee Cosmetic<br>20–29 Lee 600 Series<br>30–39 Lee 700 Series<br>40–49 Lee Colour Correction<br>50–59 Rosco Cinelux<br>60–69 Rosco CalColour<br>70–79 Rosco Storaro Selection<br>80–89 Rosco Colour Correction<br>90–255 RESERVED |
| 10 | Gel Swatch | 0 | |

### Mode 25: CCT Gels (12 Ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **11** | Lamp Source | 255 | 0–127 3200k Source<br>128–255 5600k Source |
| **12** | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 28: CCT and Gels Colour Bump(12ch) 8 Bit

12 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **2** | C TC | 68 | 0–5 2200<br>6–11 2500<br>12–15 2800<br>16–19 3000<br>20–25 3200<br>26–31 3500<br>32–35 3800<br>36–39 4000<br>40–45 4200<br>46–51 4500<br>52–55 4800<br>56–59 5000<br>60–63 5200<br>64–67 5400<br>68–75 5600<br>76–79 6000<br>80–85 6200<br>86–91 6500<br>92–95 6800<br>96–105 7000<br>106–115 7500<br>116–125 8000<br>126–134 8500<br>135–144 9000<br>145–154 9500<br>155–164 10000<br>165–174 10500<br>175–184 11000<br>185–194 11500<br>195–204 12000<br>205–214 12500<br>215–224 13000<br>225–234 13500<br>235–244 14000<br>245–254 14500<br>255–255 15000 |
| **3** | Tint | 0 | 0–10 No effect<br>11–11 -100 Green<br>12–131 -100 to 1 Green<br>132–132 -1 Green<br>133–133 Neutral<br>134–134 +1 Green<br>135–254 +1 to +100 Green<br>255–255 + 100 Green |
| **4** | Crossfade | 0 | 0–254 White<br>255–255 Color |

### Mode 28: CCT and Gels Colour Bump(12ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 5 | Gel Library | 0 | 0–9 Lee Colour Filters<br>10–19 Lee Cosmetic<br>20–29 Lee 600 Series<br>30–39 Lee 700 Series<br>40–49 Lee Colour Correction<br>50–59 Rosco Cinelux<br>60–69 Rosco CalColour<br>70–79 Rosco Storaro Selection<br>80–89 Rosco Colour Correction<br>90–255 RESERVED |
| 6 | Gel Swatch | 0 | |
| 7 | Lamp Source | 255 | 0–127 3200k Source<br>128–255 5600k Source |
| 8 | Red | 134 | 0–10 Neutral 0%<br>11–131 Cyan 100%<br>132–133 Cyan 0%<br>134–134 Neutral 50%<br>135–253 Red 0%<br>254–255 Red 100% |
| 9 | Green | 134 | 0–10 Neutral 0%<br>11–131 Magenta 100%<br>132–133 Magenta 0%<br>134–134 Neutral 50%<br>135–253 Green 0%<br>254–255 Green 100% |
| 10 | Blue | 134 | 0–10 Neutral 0%<br>11–131 Yellow 100%<br>132–133 Yellow 0%<br>134–134 Neutral 50%<br>135–253 Blue 0%<br>254–255 Blue 100% |
| 11 | H SBSaturation | 134 | 0–10 Neutral 0%<br>11–131 -100% Saturation<br>132–133 Saturation 0% Neg<br>134–134 Neutral 50%<br>135–253 Saturation 0% Pos<br>254–255 Saturation 100% |
| 12 | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 14: CCT CIE xy (13ch) 16 Bit

13 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | Dimmer Fine | 0 | Fine byte of Dimmer |

## Mode 14: CCT CIE xy (13ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **3** | C TC | 68 | 0–5 2200<br>6–11 2500<br>12–15 2800<br>16–19 3000<br>20–25 3200<br>26–31 3500<br>32–35 3800<br>36–39 4000<br>40–45 4200<br>46–51 4500<br>52–55 4800<br>56–59 5000<br>60–63 5200<br>64–67 5400<br>68–75 5600<br>76–79 6000<br>80–85 6200<br>86–91 6500<br>92–95 6800<br>96–105 7000<br>106–115 7500<br>116–125 8000<br>126–135 8500<br>136–144 9000<br>145–155 9500<br>156–164 10000<br>165–175 10500<br>176–184 11000<br>185–195 11500<br>196–205 12000<br>206–215 12500<br>216–225 13000<br>226–235 13500<br>236–245 14000<br>246–254 14500<br>255–255 15000 |
| **4** | C TC Fine | 0 | Fine byte of C TC |
| **5** | Tint | 0 | 0–18 No effect<br>19–136 -100 Green<br>137–254 -1 Green<br>255–255 + 100 Green |
| **6** | Tint Fine | 0 | Fine byte of Tint |
| **7** | Crossfade | 0 | 0–254 White<br>255–255 Color |
| **8** | Crossfade Fine | 0 | Fine byte of Crossfade |
| **9** | C IEX | 105 | |
| **10** | C IEX Fine | 170 | Fine byte of C IEX |
| **11** | C IEY | 108 | |
| **12** | C IEY Fine | 129 | Fine byte of C IEY |
| **13** | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 15: CCT Hue/Saturation Effects (13ch) 8 Bit

13 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | C TC | 68 | 0–5 2200<br>6–11 2500<br>12–15 2800<br>16–19 3000<br>20–25 3200<br>26–31 3500<br>32–35 3800<br>36–39 4000<br>40–45 4200<br>46–51 4500<br>52–55 4800<br>56–59 5000<br>60–63 5200<br>64–67 5400<br>68–75 5600<br>76–79 6000<br>80–85 6200<br>86–91 6500<br>92–95 6800<br>96–105 7000<br>106–115 7500<br>116–125 8000<br>126–134 8500<br>135–144 9000<br>145–154 9500<br>155–164 10000<br>165–174 10500<br>175–184 11000<br>185–194 11500<br>195–204 12000<br>205–214 12500<br>215–224 13000<br>225–234 13500<br>235–244 14000<br>245–254 14500<br>255–255 15000 |
| 3 | Tint | 0 | 0–10 No effect<br>11–11 -100 Green<br>12–131 -100 to 1 Green<br>132–132 -1 Green<br>133–133 Neutral<br>134–134 +1 Green<br>135–254 +1 to +100 Green<br>255–255 + 100 Green |
| 4 | Crossfade | 0 | 0–254 White<br>255–255 Color |
| 5 | H SBHue | 0 | 0–41 0deg Red<br>42–84 60deg Yellow<br>85–126 120deg Green<br>127–169 180deg Cyan<br>170–211 240deg Blue<br>212–254 300deg Magenta<br>255–255 360deg Red |
| 6 | H SBSaturation | 0 | |

## Mode 15: CCT Hue/Saturation Effects (13ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **7** | Effect | 0 | 0–19 No Effect<br>20–29 Strobe<br>30–39 Random<br>40–49 Flash Frames<br>50–59 Dual Level<br>60–69 Sync Flash<br>70–79 Colour Cycle<br>80–89 Candle and Fire<br>90–99 Emergency Lights<br>100–109 Television<br>110–119 Paparazzi<br>120–129 Party<br>130–139 Pulse<br>140–249 RESERVED<br>250–255 Calibrate Sync |
| **8** | F XControl1 | 0 | 0–9 0% Speed<br>10–19 Blue Slow<br>20–29 Candle Calm<br>30–39 Blue Double<br>40–49 Candle Windy<br>50–59 Blue/Red Slow<br>60–69 Fireplace<br>70–79 Blue/Red Double<br>80–89 Campfire<br>90–99 Blue/Red Rapid<br>100–109 Bonfire<br>110–119 Red Warning<br>120–127 Inferno<br>128–129 50% Speed<br>130–139 Magenta Burst<br>140–159 Gas Fire<br>160–254 RESERVED<br>255–255 100% Speed |

## Mode 15: CCT Hue/Saturation Effects (13ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **9** | F XControl2 | 0 | 0–9 1% Duty Cycle<br>10–14 1/2000<br>15–19 Blue / Red<br>20–29 1/1000<br>30–39 1/800<br>40–41 1/500<br>42–44 60deg Yellow<br>45–49 Blue / Amber<br>50–59 1/320<br>60–63 1/250<br>64–69 50ms Flash Length<br>70–74 1/125<br>75–79 Blue / Amber / Red<br>80–84 1/60<br>85–89 120deg Green<br>90–99 1/30<br>100–104 1/15<br>105–109 Red<br>110–119 1/10<br>120–126 1/5<br>127–127 100ms Flash Length<br>128–129 128 Frames On<br>130–134 RESERVED<br>135–149 Magenta<br>150–164 Green<br>165–169 White<br>170–179 240deg Blue<br>180–190 RESERVED<br>191–211 150ms Flash Length<br>212–244 300deg Magenta<br>245–254 Colour Mode Slots to Set Colour<br>255–255 99% Duty Cycle |
| **10** | F XControl3 | 0 | 0–9 Run<br>10–19 2 Flashes<br>20–29 3 Flashes<br>30–39 4 Flashes<br>40–49 5 Flashes<br>50–59 6 Flashes<br>60–69 7 Flashes<br>70–79 8 Flashes<br>80–89 9 Flashes<br>90–99 10 Flashes<br>100–109 11 Flashes<br>110–119 12 Flashes<br>120–127 13 Flashes<br>128–129 50% Variation<br>130–139 14 Flashes<br>140–149 15 Flashes<br>150–159 16 Flashes<br>160–169 17 Flashes<br>170–179 18 Flashes<br>180–189 19 Flashes<br>190–199 20 Flashes<br>200–243 RESERVED<br>244–244 15000k<br>245–254 Use Colour Mode Slots For Colour<br>255–255 Restart Effect |

### Mode 15: CCT Hue/Saturation Effects (13ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **11** | F XControl4 | 0 | 0–126 0 Frames Offset<br>127–127 50% Speed<br>128–243 128 Frames Offset<br>244–244 5600K<br>245–253 Colour Mode Slots for Colour<br>254–254 100% Speed<br>255–255 255 Frames Offset |
| **12** | F XControl5 | 0 | 0–127 Effect Enable<br>128–254 Effect Disable<br>255–255 2 Second Pause |
| **13** | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 17: CCT CIE xy Effects (13ch) 8 Bit

13 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **2** | C TC | 68 | 0–5 2200<br>6–11 2500<br>12–15 2800<br>16–19 3000<br>20–25 3200<br>26–31 3500<br>32–35 3800<br>36–39 4000<br>40–45 4200<br>46–51 4500<br>52–55 4800<br>56–59 5000<br>60–63 5200<br>64–67 5400<br>68–75 5600<br>76–79 6000<br>80–85 6200<br>86–91 6500<br>92–95 6800<br>96–105 7000<br>106–115 7500<br>116–125 8000<br>126–134 8500<br>135–144 9000<br>145–154 9500<br>155–164 10000<br>165–174 10500<br>175–184 11000<br>185–194 11500<br>195–204 12000<br>205–214 12500<br>215–224 13000<br>225–234 13500<br>235–244 14000<br>245–254 14500<br>255–255 15000 |

## Mode 17: CCT CIE xy Effects (13ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **3** | Tint | 0 | 0–10 No effect<br>11–11 -100 Green<br>12–131 -100 to 1 Green<br>132–132 -1 Green<br>133–133 Neutral<br>134–134 +1 Green<br>135–254 +1 to +100 Green<br>255–255 + 100 Green |
| **4** | Crossfade | 0 | 0–254 White<br>255–255 Color |
| **5** | C IEX | 105 | |
| **6** | C IEY | 108 | |
| **7** | Effect | 0 | 0–19 No Effect<br>20–29 Strobe<br>30–39 Random<br>40–49 Flash Frames<br>50–59 Dual Level<br>60–69 Sync Flash<br>70–79 Colour Cycle<br>80–89 Candle and Fire<br>90–99 Emergency Lights<br>100–109 Television<br>110–119 Paparazzi<br>120–129 Party<br>130–139 Pulse<br>140–249 RESERVED<br>250–255 Calibrate Sync |
| **8** | F XControl1 | 0 | 0–9 0% Speed<br>10–19 Blue Slow<br>20–29 Candle Calm<br>30–39 Blue Double<br>40–49 Candle Windy<br>50–59 Blue/Red Slow<br>60–69 Fireplace<br>70–79 Blue/Red Double<br>80–89 Campfire<br>90–99 Blue/Red Rapid<br>100–109 Bon Fire<br>110–119 Red Warning<br>120–126 50% Speed<br>127–127 Flash Level 50%<br>128–129 50% Speed<br>130–139 Magenta Burst<br>140–159 Gas Fire<br>160–249 RESERVED<br>250–253 100% Speed<br>254–254 5Hz Flashes Per Second<br>255–255 100% Speed |

## Mode 17: CCT CIE xy Effects (13ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **9** | F XControl2 | 0 | 0–9 1% Duty Cycle<br>10–14 1/2000<br>15–19 Blue / Red<br>20–29 1/1000<br>30–39 1/800<br>40–41 1/500<br>42–44 60deg Yellow<br>45–49 Blue / Amber<br>50–59 1/320<br>60–63 1/250<br>64–69 50ms Flash Length<br>70–74 1/125<br>75–79 Blue / Amber / Red<br>80–84 1/60<br>85–89 120deg Green<br>90–99 1/30<br>100–104 1/15<br>105–109 Red<br>110–119 1/10<br>120–126 1/5<br>127–127 100ms Flash Length<br>128–129 128 Frames On<br>130–134 RESERVED<br>135–149 Magenta<br>150–164 Green<br>165–169 White<br>170–179 240deg Blue<br>180–190 RESERVED<br>191–211 150ms Flash Length<br>212–244 300deg Magenta<br>245–249 Colour Mode Slots to Set Colour<br>250–253 100% Intensity<br>254–254 99% Duty Cycle<br>255–255 200ms Flash Length |
| **10** | F XControl3 | 0 | 0–9 Run<br>10–19 2 Flash<br>20–29 3 Flash<br>30–39 4 Flash<br>40–49 5 Flash<br>50–59 6 Flash<br>60–63 7 Flash<br>64–69 25% Varitation<br>70–79 8 Flash<br>80–89 9 Flash<br>90–99 10 Flash<br>100–109 11 Flash<br>110–119 12 Flash<br>120–126 13 Flash<br>127–127 50% Variation<br>128–129 Flash Level<br>130–139 14 Flash<br>140–149 15 Flash<br>150–159 16 Flash<br>160–169 17 Flash<br>170–179 18 Flash<br>180–189 19 Flash<br>190–190 20 Flash<br>191–199 75% Variation<br>200–243 RESERVED<br>244–244 15000k<br>245–253 Use Colour Mode Slots For Colour<br>254–254 100% Speed<br>255–255 Restart Effect |

### Mode 17: CCT CIE xy Effects (13ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **11** | F XControl4 | 0 | 0–121 0 Frames Offset<br>122–126 2100k<br>127–127 50% Speed<br>128–243 128 Frames Offset<br>244–244 5600k<br>245–253 Colour Mode Slots for Colour<br>254–254 100% Speed<br>255–255 255 Frames Offset |
| **12** | F XControl5 | 0 | 0–126 Effect Enable<br>127–127 1 Second Pause<br>128–253 Effect Disable<br>254–255 2 Seconds Pause |
| **13** | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 8: CCT Hue/Saturation (13ch) 16 Bit

13 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **2** | Dimmer Fine | 0 | Fine byte of Dimmer |

## Mode 8: CCT Hue/Saturation (13ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **3** | C TC | 68 | 0–5 2200<br>6–11 2500<br>12–15 2800<br>16–19 3000<br>20–25 3200<br>26–31 3500<br>32–35 3800<br>36–39 4000<br>40–45 4200<br>46–51 4500<br>52–55 4800<br>56–59 5000<br>60–63 5200<br>64–67 5400<br>68–75 5600<br>76–79 6000<br>80–85 6200<br>86–91 6500<br>92–95 6800<br>96–105 7000<br>106–115 7500<br>116–125 8000<br>126–135 8500<br>136–144 9000<br>145–155 9500<br>156–164 10000<br>165–175 10500<br>176–184 11000<br>185–195 11500<br>196–205 12000<br>206–215 12500<br>216–225 13000<br>226–235 13500<br>236–245 14000<br>246–254 14500<br>255–255 15000 |
| **4** | C TC Fine | 0 | Fine byte of C TC |
| **5** | Tint | 0 | 0–18 No effect<br>19–136 -100 Green<br>137–254 -1 Green<br>255–255 + 100 Green |
| **6** | Tint Fine | 0 | Fine byte of Tint |
| **7** | Crossfade | 0 | 0–254 White<br>255–255 Color |
| **8** | Crossfade Fine | 0 | Fine byte of Crossfade |
| **9** | H SBHue | 0 | 0–41 0deg Red<br>42–84 60deg Yellow<br>85–127 120deg Green<br>128–169 180deg Cyan<br>170–212 240deg Blue<br>213–254 300deg Magenta<br>255–255 360deg Red |
| **10** | H SBHue Fine | 0 | Fine byte of H SBHue |
| **11** | H SBSaturation | 0 | |
| **12** | H SBSaturation Fine | 0 | Fine byte of H SBSaturation |

### Mode 8: CCT Hue/Saturation (13ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 13 | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 9: RGBW (13ch) 16 Bit

13 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | Dimmer Fine | 0 | Fine byte of Dimmer |
| 3 | Red | 255 | |
| 4 | Red Fine | 255 | Fine byte of Red |
| 5 | Green | 255 | |
| 6 | Green Fine | 255 | Fine byte of Green |
| 7 | Blue | 255 | |
| 8 | Blue Fine | 255 | Fine byte of Blue |
| 9 | White | 0 | |
| 10 | White Fine | 0 | Fine byte of White |
| 11 | Color Add RY | 0 | |
| 12 | Color Add RY Fine | 0 | Fine byte of Color Add RY |
| 13 | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 29: Gels Colour Bump(14ch) 16 Bit

14 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | Dimmer Fine | 0 | Fine byte of Dimmer |
| 3 | Gel Library | 0 | 0–9 Lee Colour Filters<br>10–19 Lee Cosmetic<br>20–29 Lee 600 Series<br>30–39 Lee 700 Series<br>40–49 Lee Colour Correction<br>50–59 Rosco Cinelux<br>60–69 Rosco CalColour<br>70–79 Rosco Storaro Selection<br>80–89 Rosco Colour Correction<br>90–255 RESERVED |
| 4 | Gel Swatch | 0 | |
| 5 | Lamp Source | 255 | 0–127 3200k Source<br>128–255 5600k Source |

### Mode 29: Gels Colour Bump(14ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **6** | Red | 134 | 0–10 Neutral 0%<br>11–131 Cyan 100%<br>132–133 Cyan 0%<br>134–134 Neutral 50%<br>135–253 Red 0%<br>254–255 Red 100% |
| **7** | Red Fine | 134 | Fine byte of Red |
| **8** | Green | 134 | 0–10 Neutral 0%<br>11–131 Magenta 100%<br>132–133 Magenta 0%<br>134–134 Neutral 50%<br>135–253 Green 0%<br>254–255 Green 100% |
| **9** | Green Fine | 134 | Fine byte of Green |
| **10** | Blue | 134 | 0–10 Neutral 0%<br>11–131 Yellow 100%<br>132–133 Yellow 0%<br>134–134 Neutral 50%<br>135–253 Blue 0%<br>254–255 Blue 100% |
| **11** | Blue Fine | 134 | Fine byte of Blue |
| **12** | H SBSaturation | 134 | 0–10 Neutral 0%<br>11–131 -100% Saturation<br>132–133 Saturation 0% Neg<br>134–134 Neutral 50%<br>135–253 Saturation 0% Pos<br>254–255 Saturation 100% |
| **13** | H SBSaturation Fine | 134 | Fine byte of H SBSaturation |
| **14** | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 23: CCT Gels Effects (15 Ch) 8 Bit

15 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |

## Mode 23: CCT Gels Effects (15 Ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 2 | C TC | 68 | 0–5 2200<br>6–11 2500<br>12–15 2800<br>16–19 3000<br>20–25 3200<br>26–31 3500<br>32–35 3800<br>36–39 4000<br>40–45 4200<br>46–51 4500<br>52–55 4800<br>56–59 5000<br>60–63 5200<br>64–67 5400<br>68–75 5600<br>76–79 6000<br>80–85 6200<br>86–91 6500<br>92–95 6800<br>96–105 7000<br>106–115 7500<br>116–125 8000<br>126–134 8500<br>135–144 9000<br>145–154 9500<br>155–164 10000<br>165–174 10500<br>175–184 11000<br>185–194 11500<br>195–204 12000<br>205–214 12500<br>215–224 13000<br>225–234 13500<br>235–244 14000<br>245–254 14500<br>255–255 15000 |
| 3 | Tint | 0 | 0–10 No effect<br>11–11 -100 Green<br>12–131 -100 to 1 Green<br>132–132 -1 Green<br>133–133 Neutral<br>134–134 +1 Green<br>135–254 +1 to +100 Green<br>255–255 + 100 Green |
| 4 | Crossfade | 0 | 0–254 White<br>255–255 Color |
| 5 | Gel Library | 0 | 0–9 Lee Colour Filters<br>10–19 Lee Cosmetic<br>20–29 Lee 600 Series<br>30–39 Lee 700 Series<br>40–49 Lee Colour Correction<br>50–59 Rosco Cinelux<br>60–69 Rosco CalColour<br>70–79 Rosco Storaro Selection<br>80–89 Rosco Colour Correction<br>90–255 RESERVED |
| 6 | Gel Swatch | 0 | |
| 7 | Lamp Source | 255 | 0–127 3200k Source<br>128–255 5600k Source |

## Mode 23: CCT Gels Effects (15 Ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **8** | Effect | 0 | 0–19 No Effect<br>20–29 Strobe<br>30–39 Random<br>40–49 Flash Frames<br>50–59 Dual Level<br>60–69 Sync Flash<br>70–79 Colour Cycle<br>80–89 Candle and Fire<br>90–99 Emergency Lights<br>100–109 Television<br>110–119 Paparazzi<br>120–129 Party<br>130–139 Pulse<br>140–249 RESERVED<br>250–255 Calibrate Sync |
| **9** | F XControl1 | 0 | 0–9 0% Speed<br>10–19 Blue Slow<br>20–29 Candle Calm<br>30–39 Blue Double<br>40–49 Candle Windy<br>50–59 Blue/Red Slow<br>60–69 Fireplace<br>70–79 Blue/Red Double<br>80–89 Campfire<br>90–99 Blue/Red Rapid<br>100–109 Bon Fire<br>110–119 Red Warning<br>120–126 50% Speed<br>127–127 Flash Level 50%<br>128–129 50% Speed<br>130–139 Magenta Burst<br>140–159 Gas Fire<br>160–249 RESERVED<br>250–253 100% Speed<br>254–254 5Hz Flashes Per Second<br>255–255 100% Speed |

## Mode 23: CCT Gels Effects (15 Ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **10** | F XControl2 | 0 | 0–9 1% Duty Cycle<br>10–14 1/2000<br>15–19 Blue / Red<br>20–29 1/1000<br>30–39 1/800<br>40–41 1/500<br>42–44 60deg Yellow<br>45–49 Blue / Amber<br>50–59 1/320<br>60–63 1/250<br>64–69 50ms Flash Length<br>70–74 1/125<br>75–79 Blue / Amber / Red<br>80–84 1/60<br>85–89 120deg Green<br>90–99 1/30<br>100–104 1/15<br>105–109 Red<br>110–119 1/10<br>120–126 1/5<br>127–127 100ms Flash Length<br>128–129 128 Frames On<br>130–134 RESERVED<br>135–149 Magenta<br>150–164 Green<br>165–169 White<br>170–179 240deg Blue<br>180–190 RESERVED<br>191–211 150ms Flash Length<br>212–244 300deg Magenta<br>245–249 Colour Mode Slots to Set Colour<br>250–253 100% Intensity<br>254–254 99% Duty Cycle<br>255–255 200ms Flash Length |
| **11** | F XControl3 | 0 | 0–9 Run<br>10–19 2 Flash<br>20–29 3 Flash<br>30–39 4 Flash<br>40–49 5 Flash<br>50–59 6 Flash<br>60–63 7 Flash<br>64–69 25% Varitation<br>70–79 8 Flash<br>80–89 9 Flash<br>90–99 10 Flash<br>100–109 11 Flash<br>110–119 12 Flash<br>120–126 13 Flash<br>127–127 50% Variation<br>128–129 Flash Level<br>130–139 14 Flash<br>140–149 15 Flash<br>150–159 16 Flash<br>160–169 17 Flash<br>170–179 18 Flash<br>180–189 19 Flash<br>190–190 20 Flash<br>191–199 75% Variation<br>200–243 RESERVED<br>244–244 15000k<br>245–253 Use Colour Mode Slots For Colour<br>254–254 100% Speed<br>255–255 Restart Effect |

### Mode 23: CCT Gels Effects (15 Ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **12** | F XControl4 | 0 | 0–121 0 Frames Offset<br>122–126 2100k<br>127–127 50% Speed<br>128–243 128 Frames Offset<br>244–244 5600k<br>245–253 Colour Mode Slots for Colour<br>254–254 100% Speed<br>255–255 255 Frames Offset |
| **13** | F XControl5 | 0 | 0–126 Effect Enable<br>127–127 1 Second Pause<br>128–253 Effect Disable<br>254–255 2 Seconds Pause |
| **14** | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |
| **15** | Control1 | 0 | 0–9 No Changes<br>10–19 DMX Mode Smooth OFF<br>20–29 DMX Mode Smooth<br>30–39 DMX Mode Super Smooth<br>40–49 No Changes<br>50–54 Dim Curve Linear<br>55–59 Dim Curve Exponential<br>60–64 Dim Curve Logarithmic<br>65–69 Dim Curve S Curve<br>70–74 High Speed Mode OFF<br>75–79 High Speed Mode ON<br>80–84 Blackout Startup OFF<br>85–89 Blackout Startup ON<br>90–94 Calibrated RGBW OFF<br>95–99 Calibrated RGBW ON<br>100–104 CRMX UnLink<br>105–109 CRMX Disabled<br>110–114 CRMX Enabled<br>115–119 CRMX BLE Disabled<br>120–124 CRMX BLE Enabled<br>125–129 DMX Forward OFF<br>130–134 DMX Forward ON<br>135–139 Master Mode OFF<br>140–144 Master Mode ON<br>145–149 Refresh Frame Sync<br>150–154 Display On=Off<br>155–159 Display On=On<br>160–244 CRMX Transmitter Link<br>245–249 Green Indicator OFF<br>250–255 Green Indicator On |

## Mode 16: CCT RGBW Effects (16ch) 8 Bit

16 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |

## Mode 16: CCT RGBW Effects (16ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **2** | C TC | 68 | 0–5 2200<br>6–11 2500<br>12–15 2800<br>16–19 3000<br>20–25 3200<br>26–31 3500<br>32–35 3800<br>36–39 4000<br>40–45 4200<br>46–51 4500<br>52–55 4800<br>56–59 5000<br>60–63 5200<br>64–67 5400<br>68–75 5600<br>76–79 6000<br>80–85 6200<br>86–91 6500<br>92–95 6800<br>96–105 7000<br>106–115 7500<br>116–125 8000<br>126–134 8500<br>135–144 9000<br>145–154 9500<br>155–164 10000<br>165–174 10500<br>175–184 11000<br>185–194 11500<br>195–204 12000<br>205–214 12500<br>215–224 13000<br>225–234 13500<br>235–244 14000<br>245–254 14500<br>255–255 15000 |
| **3** | Tint | 0 | 0–10 No effect<br>11–11 -100 Green<br>12–131 -100 to 1 Green<br>132–132 -1 Green<br>133–133 Neutral<br>134–134 +1 Green<br>135–254 +1 to +100 Green<br>255–255 + 100 Green |
| **4** | Crossfade | 0 | 0–254 White<br>255–255 Color |
| **5** | Red | 255 | |
| **6** | Green | 255 | |
| **7** | Blue | 255 | |
| **8** | White | 0 | |
| **9** | Color Add RY | 0 | |

## Mode 16: CCT  RGBW Effects (16ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **10** | Effect | 0 | 0–19  No Effect<br>20–29  Strobe<br>30–39  Random<br>40–49  Flash Frames<br>50–59  Dual Level<br>60–69  Sync Flash<br>70–79  Colour Cycle<br>80–89  Candle and Fire<br>90–99  Emergency Lights<br>100–109  Television<br>110–119  Paparazzi<br>120–129  Party<br>130–139  Pulse<br>140–249  RESERVED<br>250–255  Calibrate Sync |
| **11** | F XControl1 | 0 | 0–9  0% Speed<br>10–19  Blue Slow<br>20–29  Candle Calm<br>30–39  Blue Double<br>40–49  Candle Windy<br>50–59  Blue/Red Slow<br>60–69  Fireplace<br>70–79  Blue/Red Double<br>80–89  Campfire<br>90–99  Blue/Red Rapid<br>100–109  Bon Fire<br>110–119  Red Warning<br>120–126  50% Speed<br>127–127  Flash Level 50%<br>128–129  50% Speed<br>130–139  Magenta Burst<br>140–159  Gas Fire<br>160–249  RESERVED<br>250–253  100% Speed<br>254–254  5Hz Flashes Per Second<br>255–255  100% Speed |

## Mode 16: CCT RGBW Effects (16ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **12** | F XControl2 | 0 | 0–9 1% Duty Cycle<br>10–14 1/2000<br>15–19 Blue / Red<br>20–29 1/1000<br>30–39 1/800<br>40–41 1/500<br>42–44 60deg Yellow<br>45–49 Blue / Amber<br>50–59 1/320<br>60–63 1/250<br>64–69 50ms Flash Length<br>70–74 1/125<br>75–79 Blue / Amber / Red<br>80–84 1/60<br>85–89 120deg Green<br>90–99 1/30<br>100–104 1/15<br>105–109 Red<br>110–119 1/10<br>120–126 1/5<br>127–127 100ms Flash Length<br>128–129 128 Frames On<br>130–134 RESERVED<br>135–149 Magenta<br>150–164 Green<br>165–169 White<br>170–179 240deg Blue<br>180–190 RESERVED<br>191–211 150ms Flash Length<br>212–244 300deg Magenta<br>245–249 Colour Mode Slots to Set Colour<br>250–253 100% Intensity<br>254–254 99% Duty Cycle<br>255–255 200ms Flash Length |
| **13** | F XControl3 | 0 | 0–9 Run<br>10–19 2 Flash<br>20–29 3 Flash<br>30–39 4 Flash<br>40–49 5 Flash<br>50–59 6 Flash<br>60–63 7 Flash<br>64–69 25% Varitation<br>70–79 8 Flash<br>80–89 9 Flash<br>90–99 10 Flash<br>100–109 11 Flash<br>110–119 12 Flash<br>120–126 13 Flash<br>127–127 50% Variation<br>128–129 Flash Level<br>130–139 14 Flash<br>140–149 15 Flash<br>150–159 16 Flash<br>160–169 17 Flash<br>170–179 18 Flash<br>180–189 19 Flash<br>190–190 20 Flash<br>191–199 75% Variation<br>200–243 RESERVED<br>244–244 15000k<br>245–253 Use Colour Mode Slots For Colour<br>254–254 100% Speed<br>255–255 Restart Effect |

### Mode 16: CCT  RGBW Effects (16ch) 8 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **14** | F XControl4 | 0 | 0–121  0 Frames Offset<br>122–126  2100k<br>127–127  50% Speed<br>128–243  128 Frames Offset<br>244–244  5600k<br>245–253  Colour Mode Slots for Colour<br>254–254  100% Speed<br>255–255  255 Frames Offset |
| **15** | F XControl5 | 0 | 0–126  Effect Enable<br>127–127  1 Second Pause<br>128–253  Effect Disable<br>254–255  2 Seconds Pause |
| **16** | Fans | 0 | 0–9  Auto<br>10–49  Quiet<br>50–99  Medium<br>100–149  Fast<br>150–249  Reserved<br>250–255  Pause |

## Mode 26:  CCT Gels Effects (18 Ch) 16 Bit

18 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Dimmer | 0 | 0–254  Closed<br>255–255  Open |
| **2** | Dimmer Fine | 0 | Fine byte of Dimmer |

## Mode 26: CCT Gels Effects (18 Ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **3** | C TC | 68 | 0–5 2200<br>6–11 2500<br>12–15 2800<br>16–19 3000<br>20–25 3200<br>26–31 3500<br>32–35 3800<br>36–39 4000<br>40–45 4200<br>46–51 4500<br>52–55 4800<br>56–59 5000<br>60–63 5200<br>64–67 5400<br>68–75 5600<br>76–79 6000<br>80–85 6200<br>86–91 6500<br>92–95 6800<br>96–105 7000<br>106–115 7500<br>116–125 8000<br>126–135 8500<br>136–144 9000<br>145–155 9500<br>156–164 10000<br>165–175 10500<br>176–184 11000<br>185–195 11500<br>196–205 12000<br>206–215 12500<br>216–225 13000<br>226–235 13500<br>236–245 14000<br>246–254 14500<br>255–255 15000 |
| **4** | C TC Fine | 0 | Fine byte of C TC |
| **5** | Tint | 0 | 0–18 No effect<br>19–136 -100 Green<br>137–254 -1 Green<br>255–255 + 100 Green |
| **6** | Tint Fine | 0 | Fine byte of Tint |
| **7** | Crossfade | 0 | 0–254 White<br>255–255 Color |
| **8** | Crossfade Fine | 0 | Fine byte of Crossfade |
| **9** | Gel Library | 0 | 0–9 Lee Colour Filters<br>10–19 Lee Cosmetic<br>20–29 Lee 600 Series<br>30–39 Lee 700 Series<br>40–49 Lee Colour Correction<br>50–59 Rosco Cinelux<br>60–69 Rosco CalColour<br>70–79 Rosco Storaro Selection<br>80–89 Rosco Colour Correction<br>90–255 RESERVED |
| **10** | Gel Swatch | 0 | |
| **11** | Lamp Source | 255 | 0–127 3200k Source<br>128–255 5600k Source |

## Mode 26: CCT Gels Effects (18 Ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **12** | Effect | 0 | 0–19 No Effect<br>20–29 Strobe<br>30–39 Random<br>40–49 Flash Frames<br>50–59 Dual Level<br>60–69 Sync Flash<br>70–79 Colour Cycle<br>80–89 Candle and Fire<br>90–99 Emergency Lights<br>100–109 Television<br>110–119 Paparazzi<br>120–129 Party<br>130–139 Pulse<br>140–249 RESERVED<br>250–255 Calibrate Sync |
| **13** | F XControl1 | 0 | 0–9 0% Speed<br>10–19 Blue Slow<br>20–29 Candle Calm<br>30–39 Blue Double<br>40–49 Candle Windy<br>50–59 Blue/Red Slow<br>60–69 Fireplace<br>70–79 Blue/Red Double<br>80–89 Campfire<br>90–99 Blue/Red Rapid<br>100–109 Bon Fire<br>110–119 Red Warning<br>120–126 50% Speed<br>127–127 Flash Level 50%<br>128–129 50% Speed<br>130–139 Magenta Burst<br>140–159 Gas Fire<br>160–249 RESERVED<br>250–253 100% Speed<br>254–254 5Hz Flashes Per Second<br>255–255 100% Speed |

## Mode 26: CCT Gels Effects (18 Ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **14** | F XControl2 | 0 | 0–9 1% Duty Cycle<br>10–14 1/2000<br>15–19 Blue / Red<br>20–29 1/1000<br>30–39 1/800<br>40–41 1/500<br>42–44 60deg Yellow<br>45–49 Blue / Amber<br>50–59 1/320<br>60–63 1/250<br>64–69 50ms Flash Length<br>70–74 1/125<br>75–79 Blue / Amber / Red<br>80–84 1/60<br>85–89 120deg Green<br>90–99 1/30<br>100–104 1/15<br>105–109 Red<br>110–119 1/10<br>120–126 1/5<br>127–127 100ms Flash Length<br>128–129 128 Frames On<br>130–134 RESERVED<br>135–149 Magenta<br>150–164 Green<br>165–169 White<br>170–179 240deg Blue<br>180–190 RESERVED<br>191–211 150ms Flash Length<br>212–244 300deg Magenta<br>245–249 Colour Mode Slots to Set Colour<br>250–253 100% Intensity<br>254–254 99% Duty Cycle<br>255–255 200ms Flash Length |
| **15** | F XControl3 | 0 | 0–9 Run<br>10–19 2 Flash<br>20–29 3 Flash<br>30–39 4 Flash<br>40–49 5 Flash<br>50–59 6 Flash<br>60–63 7 Flash<br>64–69 25% Varitation<br>70–79 8 Flash<br>80–89 9 Flash<br>90–99 10 Flash<br>100–109 11 Flash<br>110–119 12 Flash<br>120–126 13 Flash<br>127–127 50% Variation<br>128–129 Flash Level<br>130–139 14 Flash<br>140–149 15 Flash<br>150–159 16 Flash<br>160–169 17 Flash<br>170–179 18 Flash<br>180–189 19 Flash<br>190–190 20 Flash<br>191–199 75% Variation<br>200–243 RESERVED<br>244–244 15000k<br>245–253 Use Colour Mode Slots For Colour<br>254–254 100% Speed<br>255–255 Restart Effect |

### Mode 26: CCT Gels Effects (18 Ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **16** | F XControl4 | 0 | 0–121 0 Frames Offset<br>122–126 2100k<br>127–127 50% Speed<br>128–243 128 Frames Offset<br>244–244 5600k<br>245–253 Colour Mode Slots for Colour<br>254–254 100% Speed<br>255–255 255 Frames Offset |
| **17** | F XControl5 | 0 | 0–126 Effect Enable<br>127–127 1 Second Pause<br>128–253 Effect Disable<br>254–255 2 Seconds Pause |
| **18** | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 18: CCT Hue/Saturation Effects (19ch) 16 Bit

19 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **2** | Dimmer Fine | 0 | Fine byte of Dimmer |

## Mode 18: CCT Hue/Saturation Effects (19ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **3** | C TC | 68 | 0–5 2200<br>6–11 2500<br>12–15 2800<br>16–19 3000<br>20–25 3200<br>26–31 3500<br>32–35 3800<br>36–39 4000<br>40–45 4200<br>46–51 4500<br>52–55 4800<br>56–59 5000<br>60–63 5200<br>64–67 5400<br>68–75 5600<br>76–79 6000<br>80–85 6200<br>86–91 6500<br>92–95 6800<br>96–105 7000<br>106–115 7500<br>116–125 8000<br>126–135 8500<br>136–144 9000<br>145–155 9500<br>156–164 10000<br>165–175 10500<br>176–184 11000<br>185–195 11500<br>196–205 12000<br>206–215 12500<br>216–225 13000<br>226–235 13500<br>236–245 14000<br>246–254 14500<br>255–255 15000 |
| **4** | C TC Fine | 0 | Fine byte of C TC |
| **5** | Tint | 0 | 0–18 No effect<br>19–136 -100 Green<br>137–254 -1 Green<br>255–255 + 100 Green |
| **6** | Tint Fine | 0 | Fine byte of Tint |
| **7** | Crossfade | 0 | 0–254 white<br>255–255 Color |
| **8** | Crossfade Fine | 0 | Fine byte of Crossfade |
| **9** | H SBHue | 0 | 0–41 0deg Red<br>42–84 60deg Yellow<br>85–127 120deg Green<br>128–169 180deg Cyan<br>170–212 240deg Blue<br>213–254 300deg Magenta<br>255–255 360deg Red |
| **10** | H SBHue Fine | 0 | Fine byte of H SBHue |
| **11** | H SBSaturation | 0 | |
| **12** | H SBSaturation Fine | 0 | Fine byte of H SBSaturation |

## Mode 18: CCT Hue/Saturation Effects (19ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **13** | Effect | 0 | 0–19 No Effect<br>20–29 Strobe<br>30–39 Random<br>40–49 Flash Frames<br>50–59 Dual Level<br>60–69 Sync Flash<br>70–79 Colour Cycle<br>80–89 Candle and Fire<br>90–99 Emergency Lights<br>100–109 Television<br>110–119 Paparazzi<br>120–129 Party<br>130–139 Pulse<br>140–249 RESERVED<br>250–255 Calibrate Sync |
| **14** | F XControl1 | 0 | 0–9 0% Speed<br>10–19 Blue Slow<br>20–29 Candle Calm<br>30–39 Blue Double<br>40–49 Candle Windy<br>50–59 Blue/Red Slow<br>60–69 Fireplace<br>70–79 Blue/Red Double<br>80–89 Campfire<br>90–99 Blue/Red Rapid<br>100–109 Bon Fire<br>110–119 Red Warning<br>120–126 50% Speed<br>127–127 Flash Level 50%<br>128–129 50% Speed<br>130–139 Magenta Burst<br>140–159 Gas Fire<br>160–249 RESERVED<br>250–253 100% Speed<br>254–254 5Hz Flashes Per Second<br>255–255 100% Speed |

## Mode 18: CCT Hue/Saturation Effects (19ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **15** | F XControl2 | 0 | 0–9 1% Duty Cycle<br>10–14 1/2000<br>15–19 Blue / Red<br>20–29 1/1000<br>30–39 1/800<br>40–41 1/500<br>42–44 60deg Yellow<br>45–49 Blue / Amber<br>50–59 1/320<br>60–63 1/250<br>64–69 50ms Flash Length<br>70–74 1/125<br>75–79 Blue / Amber / Red<br>80–84 1/60<br>85–89 120deg Green<br>90–99 1/30<br>100–104 1/15<br>105–109 Red<br>110–119 1/10<br>120–126 1/5<br>127–127 100ms Flash Length<br>128–129 128 Frames On<br>130–134 RESERVED<br>135–149 Magenta<br>150–164 Green<br>165–169 White<br>170–179 240deg Blue<br>180–190 RESERVED<br>191–211 150ms Flash Length<br>212–244 300deg Magenta<br>245–249 Colour Mode Slots to Set Colour<br>250–253 100% Intensity<br>254–254 99% Duty Cycle<br>255–255 200ms Flash Length |
| **16** | F XControl3 | 0 | 0–9 Run<br>10–19 2 Flash<br>20–29 3 Flash<br>30–39 4 Flash<br>40–49 5 Flash<br>50–59 6 Flash<br>60–63 7 Flash<br>64–69 25% Varitation<br>70–79 8 Flash<br>80–89 9 Flash<br>90–99 10 Flash<br>100–109 11 Flash<br>110–119 12 Flash<br>120–126 13 Flash<br>127–127 50% Variation<br>128–129 Flash Level<br>130–139 14 Flash<br>140–149 15 Flash<br>150–159 16 Flash<br>160–169 17 Flash<br>170–179 18 Flash<br>180–189 19 Flash<br>190–190 20 Flash<br>191–199 75% Variation<br>200–243 RESERVED<br>244–244 15000k<br>245–253 Use Colour Mode Slots For Colour<br>254–254 100% Speed<br>255–255 Restart Effect |

### Mode 18: CCT Hue/Saturation Effects (19ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **17** | F XControl4 | 0 | 0–121 0 Frames Offset<br>122–126 2100k<br>127–127 50% Speed<br>128–243 128 Frames Offset<br>244–244 5600k<br>245–253 Colour Mode Slots for Colour<br>254–254 100% Speed<br>255–255 255 Frames Offset |
| **18** | F XControl5 | 0 | 0–126 Effect Enable<br>127–127 1 Second Pause<br>128–253 Effect Disable<br>254–255 2 Seconds Pause |
| **19** | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 20: CCT CIE xy Effects (19ch) 16 Bit

19 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **2** | Dimmer Fine | 0 | Fine byte of Dimmer |

## Mode 20: CCT CIE xy Effects (19ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **3** | C TC | 68 | 0–5 2200<br>6–11 2500<br>12–15 2800<br>16–19 3000<br>20–25 3200<br>26–31 3500<br>32–35 3800<br>36–39 4000<br>40–45 4200<br>46–51 4500<br>52–55 4800<br>56–59 5000<br>60–63 5200<br>64–67 5400<br>68–75 5600<br>76–79 6000<br>80–85 6200<br>86–91 6500<br>92–95 6800<br>96–105 7000<br>106–115 7500<br>116–125 8000<br>126–135 8500<br>136–144 9000<br>145–155 9500<br>156–164 10000<br>165–175 10500<br>176–184 11000<br>185–195 11500<br>196–205 12000<br>206–215 12500<br>216–225 13000<br>226–235 13500<br>236–245 14000<br>246–254 14500<br>255–255 15000 |
| **4** | C TC Fine | 0 | Fine byte of C TC |
| **5** | Tint | 0 | 0–18 No effect<br>19–136 -100 Green<br>137–254 -1 Green<br>255–255 + 100 Green |
| **6** | Tint Fine | 0 | Fine byte of Tint |
| **7** | Crossfade | 0 | 0–254 White<br>255–255 Color |
| **8** | Crossfade Fine | 0 | Fine byte of Crossfade |
| **9** | C IEX | 105 | |
| **10** | C IEX Fine | 170 | Fine byte of C IEX |
| **11** | C IEY | 108 | |
| **12** | C IEY Fine | 129 | Fine byte of C IEY |

## Mode 20: CCT CIE xy Effects (19ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **13** | Effect | 0 | 0–19 No Effect<br>20–29 Strobe<br>30–39 Random<br>40–49 Flash Frames<br>50–59 Dual Level<br>60–69 Sync Flash<br>70–79 Colour Cycle<br>80–89 Candle and Fire<br>90–99 Emergency Lights<br>100–109 Television<br>110–119 Paparazzi<br>120–129 Party<br>130–139 Pulse<br>140–249 RESERVED<br>250–255 Calibrate Sync |
| **14** | F XControl1 | 0 | 0–9 0% Speed<br>10–19 Blue Slow<br>20–29 Candle Calm<br>30–39 Blue Double<br>40–49 Candle Windy<br>50–59 Blue/Red Slow<br>60–69 Fireplace<br>70–79 Blue/Red Double<br>80–89 Campfire<br>90–99 Blue/Red Rapid<br>100–109 Bon Fire<br>110–119 Red Warning<br>120–126 50% Speed<br>127–127 Flash Level 50%<br>128–129 50% Speed<br>130–139 Magenta Burst<br>140–159 Gas Fire<br>160–249 RESERVED<br>250–253 100% Speed<br>254–254 5Hz Flashes Per Second<br>255–255 100% Speed |

## Mode 20: CCT CIE xy Effects (19ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **15** | F XControl2 | 0 | 0–9 1% Duty Cycle<br>10–14 1/2000<br>15–19 Blue / Red<br>20–29 1/1000<br>30–39 1/800<br>40–41 1/500<br>42–44 60deg Yellow<br>45–49 Blue / Amber<br>50–59 1/320<br>60–63 1/250<br>64–69 50ms Flash Length<br>70–74 1/125<br>75–79 Blue / Amber / Red<br>80–84 1/60<br>85–89 120deg Green<br>90–99 1/30<br>100–104 1/15<br>105–109 Red<br>110–119 1/10<br>120–126 1/5<br>127–127 100ms Flash Length<br>128–129 128 Frames On<br>130–134 RESERVED<br>135–149 Magenta<br>150–164 Green<br>165–169 White<br>170–179 240deg Blue<br>180–190 RESERVED<br>191–211 150ms Flash Length<br>212–244 300deg Magenta<br>245–249 Colour Mode Slots to Set Colour<br>250–253 100% Intensity<br>254–254 99% Duty Cycle<br>255–255 200ms Flash Length |
| **16** | F XControl3 | 0 | 0–9 Run<br>10–19 2 Flash<br>20–29 3 Flash<br>30–39 4 Flash<br>40–49 5 Flash<br>50–59 6 Flash<br>60–63 7 Flash<br>64–69 25% Varitation<br>70–79 8 Flash<br>80–89 9 Flash<br>90–99 10 Flash<br>100–109 11 Flash<br>110–119 12 Flash<br>120–126 13 Flash<br>127–127 50% Variation<br>128–129 Flash Level<br>130–139 14 Flash<br>140–149 15 Flash<br>150–159 16 Flash<br>160–169 17 Flash<br>170–179 18 Flash<br>180–189 19 Flash<br>190–190 20 Flash<br>191–199 75% Variation<br>200–243 RESERVED<br>244–244 15000k<br>245–253 Use Colour Mode Slots For Colour<br>254–254 100% Speed<br>255–255 Restart Effect |

### Mode 20: CCT CIE xy Effects (19ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **17** | F XControl4 | 0 | 0–121 0 Frames Offset<br>122–126 2100k<br>127–127 50% Speed<br>128–243 128 Frames Offset<br>244–244 5600k<br>245–253 Colour Mode Slots for Colour<br>254–254 100% Speed<br>255–255 255 Frames Offset |
| **18** | F XControl5 | 0 | 0–126 Effect Enable<br>127–127 1 Second Pause<br>128–253 Effect Disable<br>254–255 2 Seconds Pause |
| **19** | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 6: CCT RGBW (19ch) 16 Bit

19 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **1** | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| **2** | Dimmer Fine | 0 | Fine byte of Dimmer |

## Mode 6: CCT  RGBW (19ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **3** | C TC | 68 | 0–5  2200<br>6–11  2500<br>12–15  2800<br>16–19  3000<br>20–25  3200<br>26–31  3500<br>32–35  3800<br>36–39  4000<br>40–45  4200<br>46–51  4500<br>52–55  4800<br>56–59  5000<br>60–63  5200<br>64–67  5400<br>68–75  5600<br>76–79  6000<br>80–85  6200<br>86–91  6500<br>92–95  6800<br>96–105  7000<br>106–115  7500<br>116–125  8000<br>126–135  8500<br>136–144  9000<br>145–155  9500<br>156–164  10000<br>165–175  10500<br>176–184  11000<br>185–195  11500<br>196–205  12000<br>206–215  12500<br>216–225  13000<br>226–235  13500<br>236–245  14000<br>246–254  14500<br>255–255  15000 |
| **4** | C TC Fine | 0 | Fine byte of C TC |
| **5** | Tint | 0 | 0–18  No effect<br>19–136  -100 Green<br>137–254  -1 Green<br>255–255  + 100 Green |
| **6** | Tint Fine | 0 | Fine byte of Tint |
| **7** | Crossfade | 0 | 0–254  White<br>255–255  Color |
| **8** | Crossfade Fine | 0 | Fine byte of Crossfade |
| **9** | Red | 255 | |
| **10** | Red Fine | 255 | Fine byte of Red |
| **11** | Green | 255 | |
| **12** | Green Fine | 255 | Fine byte of Green |
| **13** | Blue | 255 | |
| **14** | Blue Fine | 255 | Fine byte of Blue |
| **15** | White | 0 | |
| **16** | White Fine | 0 | Fine byte of White |
| **17** | Color Add RY | 0 | |
| **18** | Color Add RY Fine | 0 | Fine byte of Color Add RY |

### Mode 6: CCT  RGBW (19ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 19 | Fans | 0 | 0–9  Auto<br>10–49  Quiet<br>50–99  Medium<br>100–149  Fast<br>150–249  Reserved<br>250–255  Pause |

## Mode 30:  CCT and Gels Colour Bump(20ch) 16 Bit

20 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254  Closed<br>255–255  Open |
| 2 | Dimmer Fine | 0 | Fine byte of Dimmer |
| 3 | C TC | 68 | 0–5  2200<br>6–11  2500<br>12–15  2800<br>16–19  3000<br>20–25  3200<br>26–31  3500<br>32–35  3800<br>36–39  4000<br>40–45  4200<br>46–51  4500<br>52–55  4800<br>56–59  5000<br>60–63  5200<br>64–67  5400<br>68–75  5600<br>76–79  6000<br>80–85  6200<br>86–91  6500<br>92–95  6800<br>96–105  7000<br>106–115  7500<br>116–125  8000<br>126–135  8500<br>136–144  9000<br>145–155  9500<br>156–164  10000<br>165–175  10500<br>176–184  11000<br>185–195  11500<br>196–205  12000<br>206–215  12500<br>216–225  13000<br>226–235  13500<br>236–245  14000<br>246–254  14500<br>255–255  15000 |
| 4 | C TC Fine | 0 | Fine byte of C TC |
| 5 | Tint | 0 | 0–18  No effect<br>19–136  -100 Green<br>137–254  -1 Green<br>255–255  + 100 Green |
| 6 | Tint Fine | 0 | Fine byte of Tint |
| 7 | Crossfade | 0 | 0–254  White<br>255–255  Color |
| 8 | Crossfade Fine | 0 | Fine byte of Crossfade |

### Mode 30: CCT and Gels Colour Bump(20ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 9 | Gel Library | 0 | 0–9 Lee Colour Filters<br>10–19 Lee Cosmetic<br>20–29 Lee 600 Series<br>30–39 Lee 700 Series<br>40–49 Lee Colour Correction<br>50–59 Rosco Cinelux<br>60–69 Rosco CalColour<br>70–79 Rosco Storaro Selection<br>80–89 Rosco Colour Correction<br>90–255 RESERVED |
| 10 | Gel Swatch | 0 | |
| 11 | Lamp Source | 255 | 0–127 3200k Source<br>128–255 5600k Source |
| 12 | Red | 134 | 0–10 Neutral 0%<br>11–131 Cyan 100%<br>132–133 Cyan 0%<br>134–134 Neutral 50%<br>135–253 Red 0%<br>254–255 Red 100% |
| 13 | Red Fine | 134 | Fine byte of Red |
| 14 | Green | 134 | 0–10 Neutral 0%<br>11–131 Magenta 100%<br>132–133 Magenta 0%<br>134–134 Neutral 50%<br>135–253 Green 0%<br>254–255 Green 100% |
| 15 | Green Fine | 134 | Fine byte of Green |
| 16 | Blue | 134 | 0–10 Neutral 0%<br>11–131 Yellow 100%<br>132–133 Yellow 0%<br>134–134 Neutral 50%<br>135–253 Blue 0%<br>254–255 Blue 100% |
| 17 | Blue Fine | 134 | Fine byte of Blue |
| 18 | H SBSaturation | 134 | 0–10 Neutral 0%<br>11–131 -100% Saturation<br>132–133 Saturation 0% Neg<br>134–134 Neutral 50%<br>135–253 Saturation 0% Pos<br>254–255 Saturation 100% |
| 19 | H SBSaturation Fine | 134 | Fine byte of H SBSaturation |
| 20 | Fans | 0 | 0–9 Auto<br>10–49 Quiet<br>50–99 Medium<br>100–149 Fast<br>150–249 Reserved<br>250–255 Pause |

## Mode 19: CCT RGBW Effects (25ch) 16 Bit

25 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | 0–254 Closed<br>255–255 Open |
| 2 | Dimmer Fine | 0 | Fine byte of Dimmer |

## Mode 19: CCT  RGBW Effects (25ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **3** | C TC | 68 | 0–5  2200<br>6–11  2500<br>12–15  2800<br>16–19  3000<br>20–25  3200<br>26–31  3500<br>32–35  3800<br>36–39  4000<br>40–45  4200<br>46–51  4500<br>52–55  4800<br>56–59  5000<br>60–63  5200<br>64–67  5400<br>68–75  5600<br>76–79  6000<br>80–85  6200<br>86–91  6500<br>92–95  6800<br>96–105  7000<br>106–115  7500<br>116–125  8000<br>126–135  8500<br>136–144  9000<br>145–155  9500<br>156–164  10000<br>165–175  10500<br>176–184  11000<br>185–195  11500<br>196–205  12000<br>206–215  12500<br>216–225  13000<br>226–235  13500<br>236–245  14000<br>246–254  14500<br>255–255  15000 |
| **4** | C TC Fine | 0 | Fine byte of C TC |
| **5** | Tint | 0 | 0–18  No effect<br>19–136  -100 Green<br>137–254  -1 Green<br>255–255  + 100 Green |
| **6** | Tint Fine | 0 | Fine byte of Tint |
| **7** | Crossfade | 0 | 0–254  White<br>255–255  Color |
| **8** | Crossfade Fine | 0 | Fine byte of Crossfade |
| **9** | Red | 255 | |
| **10** | Red Fine | 255 | Fine byte of Red |
| **11** | Green | 255 | |
| **12** | Green Fine | 255 | Fine byte of Green |
| **13** | Blue | 255 | |
| **14** | Blue Fine | 255 | Fine byte of Blue |
| **15** | White | 0 | |
| **16** | White Fine | 0 | Fine byte of White |
| **17** | Color Add RY | 0 | |
| **18** | Color Add RY Fine | 0 | Fine byte of Color Add RY |

## Mode 19: CCT  RGBW Effects (25ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **19** | Effect | 0 | 0–19  No Effect<br>20–29  Strobe<br>30–39  Random<br>40–49  Flash Frames<br>50–59  Dual Level<br>60–69  Sync Flash<br>70–79  Colour Cycle<br>80–89  Candle and Fire<br>90–99  Emergency Lights<br>100–109  Television<br>110–119  Paparazzi<br>120–129  Party<br>130–139  Pulse<br>140–249  RESERVED<br>250–255  Calibrate Sync |
| **20** | F XControl1 | 0 | 0–9  0% Speed<br>10–19  Blue Slow<br>20–29  Candle Calm<br>30–39  Blue Double<br>40–49  Candle Windy<br>50–59  Blue/Red Slow<br>60–69  Fireplace<br>70–79  Blue/Red Double<br>80–89  Campfire<br>90–99  Blue/Red Rapid<br>100–109  Bon Fire<br>110–119  Red Warning<br>120–126  50% Speed<br>127–127  Flash Level 50%<br>128–129  50% Speed<br>130–139  Magenta Burst<br>140–159  Gas Fire<br>160–249  RESERVED<br>250–253  100% Speed<br>254–254  5Hz Flashes Per Second<br>255–255  100% Speed |

## Mode 19: CCT RGBW Effects (25ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **21** | F XControl2 | 0 | 0–9 1% Duty Cycle<br>10–14 1/2000<br>15–19 Blue / Red<br>20–29 1/1000<br>30–39 1/800<br>40–41 1/500<br>42–44 60deg Yellow<br>45–49 Blue / Amber<br>50–59 1/320<br>60–63 1/250<br>64–69 50ms Flash Length<br>70–74 1/125<br>75–79 Blue / Amber / Red<br>80–84 1/60<br>85–89 120deg Green<br>90–99 1/30<br>100–104 1/15<br>105–109 Red<br>110–119 1/10<br>120–126 1/5<br>127–127 100ms Flash Length<br>128–129 128 Frames On<br>130–134 RESERVED<br>135–149 Magenta<br>150–164 Green<br>165–169 White<br>170–179 240deg Blue<br>180–190 RESERVED<br>191–211 150ms Flash Length<br>212–244 300deg Magenta<br>245–249 Colour Mode Slots to Set Colour<br>250–253 100% Intensity<br>254–254 99% Duty Cycle<br>255–255 200ms Flash Length |
| **22** | F XControl3 | 0 | 0–9 Run<br>10–19 2 Flash<br>20–29 3 Flash<br>30–39 4 Flash<br>40–49 5 Flash<br>50–59 6 Flash<br>60–63 7 Flash<br>64–69 25% Varitation<br>70–79 8 Flash<br>80–89 9 Flash<br>90–99 10 Flash<br>100–109 11 Flash<br>110–119 12 Flash<br>120–126 13 Flash<br>127–127 50% Variation<br>128–129 Flash Level<br>130–139 14 Flash<br>140–149 15 Flash<br>150–159 16 Flash<br>160–169 17 Flash<br>170–179 18 Flash<br>180–189 19 Flash<br>190–190 20 Flash<br>191–199 75% Variation<br>200–243 RESERVED<br>244–244 15000k<br>245–253 Use Colour Mode Slots For Colour<br>254–254 100% Speed<br>255–255 Restart Effect |

## Mode 19: CCT  RGBW Effects (25ch) 16 Bit (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **23** | F XControl4 | 0 | 0–121  0 Frames Offset<br>122–126  2100k<br>127–127  50% Speed<br>128–243  128 Frames Offset<br>244–244  5600k<br>245–253  Colour Mode Slots for Colour<br>254–254  100% Speed<br>255–255  255 Frames Offset |
| **24** | F XControl5 | 0 | 0–126  Effect Enable<br>127–127  1 Second Pause<br>128–253  Effect Disable<br>254–255  2 Seconds Pause |
| **25** | Fans | 0 | 0–9  Auto<br>10–49  Quiet<br>50–99  Medium<br>100–149  Fast<br>150–249  Reserved<br>250–255  Pause |