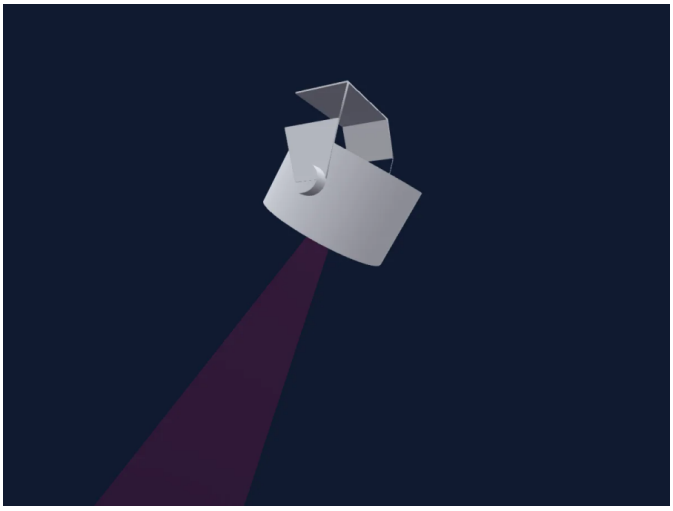
Cameo

# Flat Pro 12G2



| | |
|---|---|
| Manufacturer | **Cameo** |
| Type | **Moving head** |
| DMX modes | **8** |
| DMX footprint | **2, 4, 5, 6, 11, 14 channels** |
| Beam angle | **21°** |
| Pan range | **540°** |
| Tilt range | **360°** |
| Size (W × H × D) | **250 × 150 × 250 mm** |
| GDTF fixture type | **5AFC8BEA-3A7F-4C0F-9A0C-B3…** |

## Controls

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

## Safety-relevant functions

Service functions

## DMX modes

| | |
|---|---|
| D2CH Mode | 2 ch |
| D4CH1 Mode | 4 ch |
| D4CH2 Mode | 4 ch |
| 5CH1 mode | 5 ch |
| 6CH1 Mode | 6 ch |
| 6CH2 Mode | 6 ch |
| 11CH Mode | 11 ch |
| 14CH Mode | 14 ch |

## D2CH Mode

2 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | |
| 2 | Control2 | 0 | 0–5 No Delay<br>6–255 0:1s -> 2:0s |

## D4CH1 Mode

4 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | |
| 2 | Shutter / Strobe | 0 | 0–5 Open (react to dimmer CH1)<br>6–10 Close<br>11–21 Ramp up/down strobe · Slow 0.5–4.59 Hz<br>22–22 Ramp up/down strobe · Fast2 5 Hz<br>23–32 Ramp up/down Random · Slow 0.5–4.55 Hz<br>33–33 Ramp up/down Random · Fast 5 Hz<br>34–44 Ramp up strobe · Slow 0.5–4.59 Hz<br>45–45 Ramp up strobe · Fast 5 Hz<br>46–55 Ramp up random · Slow 0.5–4.55 Hz<br>56–56 Ramp up random · Fast 5 Hz<br>57–67 Ramp down strobe · Slow 0.5–4.59 Hz<br>68–68 Ramp down strobe · Fast 5 Hz<br>69–78 Ramp down Random · Slow 0.5–4.55 Hz<br>79–79 Ramp down Random · Fast 5 Hz<br>80–101 Random Strobe Effect · Slow 0.5–4.8 Hz<br>102–102 Random Strobe Effect · Fast 5 Hz<br>103–126 Strobe Break Effekt · 5s Short burst with break 1.5...<br>127–127 Strobe Break Effekt · 1s Short burst with break 5 Hz<br>128–128 Strobe Linear · Slow 1Hz 1 Hz<br>129–249 Strobe Linear · 1-20 Hz 1.11–14.9 Hz<br>250–250 Strobe Linear · Fast 20Hz 15 Hz<br>255–255 Open |
| 3 | Color Wheel | 113 | 0–5 Color off (wheel slot 1)<br>6–13 Red (wheel slot 2)<br>14–21 Amber (wheel slot 3)<br>22–29 Yellow warm (wheel slot 4)<br>30–37 Yellow (wheel slot 5)<br>38–45 Green (wheel slot 6)<br>46–53 Turquoise (wheel slot 7)<br>54–61 Cyan (wheel slot 8)<br>62–69 Blue (wheel slot 9)<br>70–77 Lavender (wheel slot 10)<br>78–85 Mauve (wheel slot 11)<br>86–93 Magenta (wheel slot 12)<br>94–101 Pink (wheel slot 13)<br>102–109 Warm white (wheel slot 14)<br>110–117 White (wheel slot 15)<br>118–125 Cold white (wheel slot 16)<br>126–127 Color Jumping Stop<br>128–164 Color Jumping Speed slow -> fast<br>165–201 Color Fading Speed slow -> fast<br>202–207 User Color_1<br>208–213 User Color_2<br>214–219 User Color_3<br>220–225 User Color_4<br>226–255 No Function |
| 4 | Control2 | 0 | 0–5 No Delay<br>6–255 0:1s -> 2:0s |

## D4CH2 Mode

4 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | |
| 2 | C TC | 12 | 0–5 off<br>6–8 Bulb White (2700K)<br>9–11 Halogen White (3200K)<br>12–14 Neutral White (4000K)<br>15–17 Studio White (5600K)<br>18–20 Daylight White (6500K)<br>21–255 1800K - 7500K |
| 3 | Tint | 0 | 0–0 off<br>1–127 Magenta -> Neutral<br>128–128 Neutral<br>129–255 Neutral -> Green |
| 4 | Control2 | 0 | 0–5 No Delay<br>6–255 0:1s -> 2:0s |

## 5CH1 mode

5 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Red | 0 | |
| 2 | Green | 0 | |
| 3 | Blue | 0 | |
| 4 | White | 0 | |
| 5 | Color Add RY | 0 | |

## 6CH1 Mode

6 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Red | 0 | |
| 2 | Green | 0 | |
| 3 | Blue | 0 | |
| 4 | White | 255 | |
| 5 | Color Add RY | 0 | |
| 6 | Control2 | 0 | 0–5 No Delay<br>6–255 0:1s -> 2:0s |

## 6CH2 Mode

6 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | |

## 6CH2 Mode (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 2 | Shutter / Strobe | 0 | 0–5 Open (react to dimmer CH1)<br>6–10 Close<br>11–21 Ramp up/down strobe · Slow 0.5–4.59 Hz<br>22–22 Ramp up/down strobe · Fast2 5 Hz<br>23–32 Ramp up/down Random · Slow 0.5–4.55 Hz<br>33–33 Ramp up/down Random · Fast 5 Hz<br>34–44 Ramp up strobe · Slow 0.5–4.59 Hz<br>45–45 Ramp up strobe · Fast 5 Hz<br>46–55 Ramp up random · Slow 0.5–4.55 Hz<br>56–56 Ramp up random · Fast 5 Hz<br>57–67 Ramp down strobe · Slow 0.5–4.59 Hz<br>68–68 Ramp down strobe · Fast 5 Hz<br>69–78 Ramp down Random · Slow 0.5–4.55 Hz<br>79–79 Ramp down Random · Fast 5 Hz<br>80–101 Random Strobe Effect · Slow 0.5–4.8 Hz<br>102–102 Random Strobe Effect · Fast 5 Hz<br>103–126 Strobe Break Effekt · 5s Short burst with break 1.5...<br>127–127 Strobe Break Effekt · 1s Short burst with break 5 Hz<br>128–128 Strobe Linear · Slow 1Hz 1 Hz<br>129–249 Strobe Linear · 1-20 Hz 1.11–14.9 Hz<br>250–250 Strobe Linear · Fast 20Hz 15 Hz<br>255–255 Open |
| 3 | Color Macro1Rate | 0 | 0–5 No function<br>6–26 Jump 10s to 4s<br>27–127 Jump 4s to 0;1s<br>128–148 Fade 10s to 4s<br>149–255 Fade 4s to 0;1s |
| 4 | Color Wheel | 113 | 0–5 Color off (wheel slot 1)<br>6–13 Red (wheel slot 2)<br>14–21 Amber (wheel slot 3)<br>22–29 Yellow warm (wheel slot 4)<br>30–37 Yellow (wheel slot 5)<br>38–45 Green (wheel slot 6)<br>46–53 Turquoise (wheel slot 7)<br>54–61 Cyan (wheel slot 8)<br>62–69 Blue (wheel slot 9)<br>70–77 Lavender (wheel slot 10)<br>78–85 Mauve (wheel slot 11)<br>86–93 Magenta (wheel slot 12)<br>94–101 Pink (wheel slot 13)<br>102–109 Warm white (wheel slot 14)<br>110–117 White (wheel slot 15)<br>118–125 Cold white (wheel slot 16)<br>126–127 Color Jumping Stop<br>128–164 Color Jumping Speed slow -> fast<br>165–201 Color Fading Speed slow -> fast<br>202–207 User Color_1<br>208–213 User Color_2<br>214–219 User Color_3<br>220–225 User Color_4<br>226–255 No Function |

### 6CH2 Mode (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 5 | Color Wheel 2 | 18 | 0–5 Color off (wheel slot 1)<br>6–13 Red (wheel slot 2)<br>14–21 Amber (wheel slot 3)<br>22–29 Yellow warm (wheel slot 4)<br>30–37 Yellow (wheel slot 5)<br>38–45 Green (wheel slot 6)<br>46–53 Turquoise (wheel slot 7)<br>54–61 Cyan (wheel slot 8)<br>62–69 Blue (wheel slot 9)<br>70–77 Lavender (wheel slot 10)<br>78–85 Mauve (wheel slot 11)<br>86–93 Magenta (wheel slot 12)<br>94–101 Pink (wheel slot 13)<br>102–109 Warm white (wheel slot 14)<br>110–117 White (wheel slot 15)<br>118–125 Cold white (wheel slot 16)<br>126–127 Color Jumping Stop<br>128–164 Color Jumping Speed slow -> fast<br>165–201 Color Fading Speed slow -> fast<br>202–207 User Color_1<br>208–213 User Color_2<br>214–219 User Color_3<br>220–225 User Color_4<br>226–255 No Function |
| 6 | Control2 | 0 | 0–5 No Delay<br>6–255 0:1s -> 2:0s |

## 11CH Mode

11 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Red | 0 | |
| 2 | Red Fine | 0 | Fine byte of Red |
| 3 | Green | 0 | |
| 4 | Green Fine | 0 | Fine byte of Green |
| 5 | Blue | 0 | |
| 6 | Blue Fine | 0 | Fine byte of Blue |
| 7 | White | 255 | |
| 8 | White Fine | 255 | Fine byte of White |
| 9 | Color Add RY | 0 | |
| 10 | Color Add RY Fine | 0 | Fine byte of Color Add RY |
| 11 | Control2 | 0 | 0–5 No Delay<br>6–255 0:1s -> 2:0s |

## 14CH Mode

14 channels

| Ch | Function | Default | DMX values |
|---|---|---|---|
| 1 | Dimmer | 0 | |
| 2 | Dimmer Fine | 0 | Fine byte of Dimmer |

## 14CH Mode (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **3** | Shutter / Strobe | 0 | 0–5 Open (react to dimmer CH1)<br>6–10 Close<br>11–21 Ramp up/down strobe · Slow 0.5–4.59 Hz<br>22–22 Ramp up/down strobe · Fast2 5 Hz<br>23–32 Ramp up/down Random · Slow 0.5–4.55 Hz<br>33–33 Ramp up/down Random · Fast 5 Hz<br>34–44 Ramp up strobe · Slow 0.5–4.59 Hz<br>45–45 Ramp up strobe · Fast 5 Hz<br>46–55 Ramp up random · Slow 0.5–4.55 Hz<br>56–56 Ramp up random · Fast 5 Hz<br>57–67 Ramp down strobe · Slow 0.5–4.59 Hz<br>68–68 Ramp down strobe · Fast 5 Hz<br>69–78 Ramp down Random · Slow 0.5–4.55 Hz<br>79–79 Ramp down Random · Fast 5 Hz<br>80–101 Random Strobe Effect · Slow 0.5–4.8 Hz<br>102–102 Random Strobe Effect · Fast 5 Hz<br>103–126 Strobe Break Effekt · 5s Short burst with break 1.5...<br>127–127 Strobe Break Effekt · 1s Short burst with break 5 Hz<br>128–128 Strobe Linear · Slow 1Hz 1 Hz<br>129–249 Strobe Linear · 1-20 Hz 1.11–14.9 Hz<br>250–250 Strobe Linear · Fast 20Hz 15 Hz<br>255–255 Open |
| **4** | Red | 0 | |
| **5** | Green | 0 | |
| **6** | Blue | 0 | |
| **7** | White | 255 | |
| **8** | Color Add RY | 0 | |
| **9** | C TC | 0 | 0–5 off<br>6–8 Bulb White (2700K)<br>9–11 Halogen White (3200K)<br>12–14 Neutral White (4000K)<br>15–17 Studio White (5600K)<br>18–20 Daylight White (6500K)<br>21–255 1800K - 7500K |
| **10** | Tint | 0 | 0–0 off<br>1–127 Magenta -> Neutral<br>128–128 Neutral<br>129–255 Neutral -> Green |

## 14CH Mode (continued)

| Ch | Function | Default | DMX values |
|---|---|---|---|
| **11** | Color Wheel | 0 | 0–5 Color off (wheel slot 1)<br>6–13 Red (wheel slot 2)<br>14–21 Amber (wheel slot 3)<br>22–29 Yellow warm (wheel slot 4)<br>30–37 Yellow (wheel slot 5)<br>38–45 Green (wheel slot 6)<br>46–53 Turquoise (wheel slot 7)<br>54–61 Cyan (wheel slot 8)<br>62–69 Blue (wheel slot 9)<br>70–77 Lavender (wheel slot 10)<br>78–85 Mauve (wheel slot 11)<br>86–93 Magenta (wheel slot 12)<br>94–101 Pink (wheel slot 13)<br>102–109 Warm white (wheel slot 14)<br>110–117 White (wheel slot 15)<br>118–125 Cold white (wheel slot 16)<br>126–127 Color Jumping Stop<br>128–164 Color Jumping Speed slow -> fast<br>165–201 Color Fading Speed slow -> fast<br>202–207 User Color_1<br>208–213 User Color_2<br>214–219 User Color_3<br>220–225 User Color_4<br>226–255 No Function |
| **12** | Color Macro1Rate | 0 | 0–5 No function<br>6–26 Jump 10s to 4s<br>27–127 Jump 4s to 0;1s<br>128–148 Fade 10s to 4s<br>149–255 Fade 4s to 0;1s |
| **13** | Control1 | 0 | 0–73 No function<br>74–75 Dimmer Response LED (hold 1:5 s)<br>76–77 Dimmer Response Halogen (hold 1:5 s)<br>78–81 No function<br>82–83 DTW (Redshift) on (hold 1:5 s)<br>84–85 DTW (Redshift) off (hold 1:5 s)<br>86–119 No function<br>120–121 PWM 1 (650 Hz) (hold 3s)<br>122–123 PWM 1 (1530 Hz) (hold 3s)<br>124–125 PWM 1 (2000 Hz) (hold 3s)<br>126–127 PWM 1 (3600 Hz) (hold 3s)<br>128–129 PWM 1 (12 KHz) (hold 3s)<br>130–131 PWM 1 (25 KHz) (hold 3s)<br>132–133 RAW (hold 3s)<br>134–135 Calibrated (hold 3s)<br>136–137 User Calibrated (hold 3s)<br>138–139 No function<br>140–141 Display on (hold 3s)<br>142–143 Display off (hold 3s)<br>144–163 No function<br>164–165 Dimmer Curve Linear (hold 3<br>166–167 Dimmer Curve Exponential (hold 3s)<br>168–169 Dimmer Curve Logarithmic (hold 3s)<br>170–171 171 Dimmer Curve S-Curve (hold 3s)<br>172–255 No function |
| **14** | Control2 | 0 | 0–5 No Delay<br>6–255 0:1s -> 2:0s |