Robe Lighting

Robin T1 Fresnel



Manufacturer	**Robe Lighting**
Type	**Profile spot**
DMX modes	**5**
DMX footprint	**24, 35, 39 channels**
Beam angle	**7-50°**
Pan range	**540°**
Tilt range	**263.6°**
Size (W × H × D)	**279 × 528 × 254 mm**
GDTF fixture type	**681CD12F-CF51-4227-89FD-72…**

Controls

Frost · Zoom · CMY colour mixing · Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Pan and tilt · Movement speed

Safety-relevant functions

Fixture reset · Service functions

DMX modes

Mode 2 - Reduced CMY	24 ch
Mode 2 - Reduced RGB	24 ch
Mode 1 - CMY	35 ch
Mode 1 - RGB	35 ch
Mode 3 - RGBAL	39 ch

Mode 2 - Reduced CMY

24 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode
6	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display On 25–29 Display Off 30–39 NoFeature 1 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 BO while PAN TILT moving: ON 55–59 BO while PAN TILT moving: OFF 60–69 NoFeature 2 70–74 Fan mode Auto 75–79 Fan mode High 80–84 Quiet mode: Fans ON at blackout 85–89 Quiet mode: Fans OFF at blackout 90–94 Fans mode: CPC-fans OFF 95–119 No feature 120–124 Parking position ON 125–129 Parking position OFF 130–139 Fixture reset (except pan/tilt) 140–149 PositionReset 150–179 NoFeature 4 180–189 Zoom/focus/frost/prism reset 190–199 Barnodoors/Scrim reset 200–209 Total fixture reset 210–211 Green/Blue correction calibration 212–239 NoFeature 5 240–240 Disabled Quiet mode 241–255 Quiet mode min to max

Mode 2 - Reduced CMY (continued)

Ch	Function	Default	DMX values
7	Color Control	1	0–29 NoFunction 30–34 Standard CTO 8000-2700K 35–39 Extended CTO 10000-1800K 40–44 Colour mixing mode: CMY (DMX mode 1 and 2 only) 45–49 Colour mixing mode: RGB (DMX mode 1 and 2 only) 50–54 Dimmer curve Square law 55–59 Dimmer curve Linear 60–79 NoFeature 1 80–84 Tungsten effect simulation (750W): On 85–89 Tungsten effect simulation (1000W): On 90–94 Tungsten effect simulation (1200W): On 95–99 Tungsten effect simulation (2000W): On 100–104 Tungsten effect simulation (2500W): On 105–109 Tungsten effect simulation: Off 110–114 Save user colour 115–119 Chromatic white On 120–124 Chromatic white Off 125–129 Light output stability On 130–134 Light output stability Off 135–139 Uniformity On 140–144 Uniformity Off 145–152 NoFeature 2 153–154 1800K/High intensity 155–156 2700K/High intensity 157–158 3200K/High intensity 159–160 4200K/High intensity 161–162 5600K/High intensity 163–164 8000K/High intensity 165–166 10000K/High intensity 167–168 1800K/High CRI 169–170 2700K/High CRI 171–172 3200K/High CRI 173–174 4200K/High CRI 175–176 5600K/High CRI 177–178 8000K/High CRI 179–180 10000K/High CRI 181–182 Save Green/Blue correction 183–255 NoFeature 3
8	C RIMode	0	0–254 CRI 80 255–255 CRI 90+
9	Cyan	0	
10	Magenta	0	
11	Yellow	0	
12	C TO	110	0–1 8000 K 2–64 7978 K - > 6622 K 65–65 6600 K 66–109 6578K - > 5622 K 110–110 5600 K 111–179 5580 K - > 4220 K 180–180 4200 K 181–229 4180 K - > 3220 K 230–230 3200 K 231–254 3180 K - > 2720 K 255–255 2700K
13	Scrim Pos	0	0–0 No function 1–255 Scrim inserting

Mode 2 - Reduced CMY (continued)

Ch	Function	Default	DMX values
14	Scrim Index	128	0–63 Scrim indexing 0 deg 64–127 Scrim indexing 90 deg 128–191 Scrim indexing 180 deg 192–254 Scrim indexing 270 deg 255–255 Scrim indexing 360 deg
15	Frost1	0	1–50 Light Frost from 0% to 100% 51–53 100% Light frost 54–63 Pulse closing from slow to fast 64–73 Pulse opening from fast to slow 74–83 Ramping from fast to slow 84–86 Open 87–136 Medium Frost from 0% to 100% 137–139 100% Medium Frost 140–149 Pulse closing from slow to fast 150–159 Pulse opening from fast to slow 160–169 Ramping from fast to slow 170–172 Open 173–222 Combined Frost from 0% to 100% 223–225 100% Combined Frost 226–235 Pulse closing from slow to fast 236–245 Pulse opening from fast to slow 246–255 Ramping from fast to slow
16	Zoom	128	
17	Edge Color Correction	128	
18	Shaper Rot	128	
19	Blade1A	0	
20	Blade4A	0	
21	Blade3A	0	
22	Blade2A	0	
23	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 Strobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 Strobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 Strobe · Slow to fast 12/12 20 Hz 96–127 open 128–134 StrobePulseOpen · Slow to fast 1/7 0.1–0.26 Hz 135–140 StrobePulseOpen · Slow to fast 4/7 0.287–0.42 Hz 141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz 144–149 StrobePulseClose · Fast to slow 1/7 0.5–0.367 Hz 150–155 StrobePulseClose · Fast to slow 4/7 0.34–0.207 Hz 156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
24	Dimmer	0	0–254 Closed 255–255 Open

Mode 2 - Reduced RGB

24 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

Mode 2 - Reduced RGB (continued)

Ch	Function	Default	DMX values
5	Position MSpeed	0	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode
6	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display On 25–29 Display Off 30–39 NoFeature 1 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 BO while PAN TILT moving: ON 55–59 BO while PAN TILT moving: OFF 60–69 NoFeature 2 70–74 Fan mode Auto 75–79 Fan mode High 80–84 Quiet mode: Fans ON at blackout 85–89 Quiet mode: Fans OFF at blackout 90–94 Fans mode: CPC-fans OFF 95–119 No feature 120–124 Parking position ON 125–129 Parking position OFF 130–139 Fixture reset (except pan/tilt) 140–149 PositionReset 150–179 NoFeature 4 180–189 Zoom/focus/frost/prism reset 190–199 Barnodoors/Scrim reset 200–209 Total fixture reset 210–211 Green/Blue correction calibration 212–239 NoFeature 5 240–240 Disabled Quiet mode 241–255 Quiet mode min to max

Mode 2 - Reduced RGB (continued)

Ch	Function	Default	DMX values
7	Color Control	1	0–29 NoFunction 30–34 Standard CTO 8000-2700K 35–39 Extended CTO 10000-1800K 40–44 Colour mixing mode: CMY (DMX mode 1 and 2 only) 45–49 Colour mixing mode: RGB (DMX mode 1 and 2 only) 50–54 Dimmer curve Square law 55–59 Dimmer curve Linear 60–79 NoFeature 1 80–84 Tungsten effect simulation (750W): On 85–89 Tungsten effect simulation (1000W): On 90–94 Tungsten effect simulation (1200W): On 95–99 Tungsten effect simulation (2000W): On 100–104 Tungsten effect simulation (2500W): On 105–109 Tungsten effect simulation: Off 110–114 Save user colour 115–119 Chromatic white On 120–124 Chromatic white Off 125–129 Light output stability On 130–134 Light output stability Off 135–139 Uniformity On 140–144 Uniformity Off 145–152 NoFeature 2 153–154 1800K/High intensity 155–156 2700K/High intensity 157–158 3200K/High intensity 159–160 4200K/High intensity 161–162 5600K/High intensity 163–164 8000K/High intensity 165–166 10000K/High intensity 167–168 1800K/High CRI 169–170 2700K/High CRI 171–172 3200K/High CRI 173–174 4200K/High CRI 175–176 5600K/High CRI 177–178 8000K/High CRI 179–180 10000K/High CRI 181–182 Save Green/Blue correction 183–255 NoFeature 3
8	C RIMode	0	0–254 CRI 80 255–255 CRI 90+
9	Red	255	
10	Green	255	
11	Blue	255	
12	C TO	110	0–1 8000 K 2–64 7978 K - > 6622 K 65–65 6600 K 66–109 6578K - > 5622 K 110–110 5600 K 111–179 5580 K - > 4220 K 180–180 4200 K 181–229 4180 K - > 3220 K 230–230 3200 K 231–254 3180 K - > 2720 K 255–255 2700K
13	Scrim Pos	0	0–0 No function 1–255 Scrim inserting

Mode 2 - Reduced RGB (continued)

Ch	Function	Default	DMX values
14	Scrim Index	128	0–63 Scrim indexing 0 deg 64–127 Scrim indexing 90 deg 128–191 Scrim indexing 180 deg 192–254 Scrim indexing 270 deg 255–255 Scrim indexing 360 deg
15	Frost1	0	1–50 Light Frost from 0% to 100% 51–53 100% Light frost 54–63 Pulse closing from slow to fast 64–73 Pulse opening from fast to slow 74–83 Ramping from fast to slow 84–86 Open 87–136 Medium Frost from 0% to 100% 137–139 100% Medium Frost 140–149 Pulse closing from slow to fast 150–159 Pulse opening from fast to slow 160–169 Ramping from fast to slow 170–172 Open 173–222 Combined Frost from 0% to 100% 223–225 100% Combined Frost 226–235 Pulse closing from slow to fast 236–245 Pulse opening from fast to slow 246–255 Ramping from fast to slow
16	Zoom	128	
17	Edge Color Correction	128	
18	Shaper Rot	128	
19	Blade1A	0	
20	Blade4A	0	
21	Blade3A	0	
22	Blade2A	0	
23	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 Strobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 Strobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 Strobe · Slow to fast 12/12 20 Hz 96–127 open 128–134 StrobePulseOpen · Slow to fast 1/7 0.1–0.26 Hz 135–140 StrobePulseOpen · Slow to fast 4/7 0.287–0.42 Hz 141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz 144–149 StrobePulseClose · Fast to slow 1/7 0.5–0.367 Hz 150–155 StrobePulseClose · Fast to slow 4/7 0.34–0.207 Hz 156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
24	Dimmer	0	0–254 Closed 255–255 Open

Mode 1 - CMY

35 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

Mode 1 - CMY (continued)

Ch	Function	Default	DMX values
5	Position MSpeed	0	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode
6	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display On 25–29 Display Off 30–39 NoFeature 1 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 BO while PAN TILT moving: ON 55–59 BO while PAN TILT moving: OFF 60–69 NoFeature 2 70–74 Fan mode Auto 75–79 Fan mode High 80–84 Quiet mode: Fans ON at blackout 85–89 Quiet mode: Fans OFF at blackout 90–94 Fans mode: CPC-fans OFF 95–119 No feature 120–124 Parking position ON 125–129 Parking position OFF 130–139 Fixture reset (except pan/tilt) 140–149 PositionReset 150–179 NoFeature 4 180–189 Zoom/focus/frost/prism reset 190–199 Barnodoors/Scrim reset 200–209 Total fixture reset 210–211 Green/Blue correction calibration 212–239 NoFeature 5 240–240 Disabled Quiet mode 241–255 Quiet mode min to max
7	L EDFrequency	10	0–4 PWM frequency from Display menu 5–9 300 Hz 10–14 600 Hz 15–19 1200 Hz 20–24 2400 Hz 25–255 NoFeature
8	L EDFrequency Adjust	128	

Mode 1 - CMY (continued)

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

Mode 1 - CMY (continued)

Ch	Function	Default	DMX values
19	Tint	128	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–254 Uncorrected white - > Plus green 255–255 Uncorrected white
20	Color Mix Mode	0	0–9 Virtual colours (Virtual has priority) 10–19 Maximum mode (highest values have priority) 20–29 Minimum mode (lowest values have priority) 30–39 Multiply mode (multiply Virtual and Colour mix) 40–49 Addition mode (Virtual + Colour mix) 50–59 Subtraction mode (Virtual - Colour mix) 60–69 Inverted Subtraction mode (Colour mix - Virtual) 70–79 White Point Off 80–128 Reserved 129–129 Crossfade Virtual only 130–254 Crossfade between Virtual and Colour mix 255–255 Crossfade Color mix only
21	Frame MSpeed	0	0–0 Standard mode 1–254 Min time mode 255–255 Max time mode
22	Scrim Pos	0	0–0 No function 1–255 Scrim inserting
23	Scrim Index	128	0–63 Scrim indexing 0 deg 64–127 Scrim indexing 90 deg 128–191 Scrim indexing 180 deg 192–254 Scrim indexing 270 deg 255–255 Scrim indexing 360 deg
24	Frost1	0	1–50 Light Frost from 0% to 100% 51–53 100% Light frost 54–63 Pulse closing from slow to fast 64–73 Pulse opening from fast to slow 74–83 Ramping from fast to slow 84–86 Open 87–136 Medium Frost from 0% to 100% 137–139 100% Medium Frost 140–149 Pulse closing from slow to fast 150–159 Pulse opening from fast to slow 160–169 Ramping from fast to slow 170–172 Open 173–222 Combined Frost from 0% to 100% 223–225 100% Combined Frost 226–235 Pulse closing from slow to fast 236–245 Pulse opening from fast to slow 246–255 Ramping from fast to slow
25	Zoom	128	
26	Zoom Fine	0	Fine byte of Zoom
27	Edge Color Correction	128	
28	Shaper Rot	128	
29	Blade1A	0	
30	Blade4A	0	
31	Blade3A	0	
32	Blade2A	0	

Mode 1 - CMY (continued)

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

Mode 1 - RGB

35 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode
6	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display On 25–29 Display Off 30–39 NoFeature 1 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 BO while PAN TILT moving: ON 55–59 BO while PAN TILT moving: OFF 60–69 NoFeature 2 70–74 Fan mode Auto 75–79 Fan mode High 80–84 Quiet mode: Fans ON at blackout 85–89 Quiet mode: Fans OFF at blackout 90–94 Fans mode: CPC-fans OFF 95–119 No feature 120–124 Parking position ON 125–129 Parking position OFF 130–139 Fixture reset (except pan/tilt) 140–149 PositionReset 150–179 NoFeature 4 180–189 Zoom/focus/frost/prism reset 190–199 Barnodoors/Scrim reset 200–209 Total fixture reset 210–211 Green/Blue correction calibration 212–239 NoFeature 5 240–240 Disabled Quiet mode 241–255 Quiet mode min to max

Mode 1 - RGB (continued)

Ch	Function	Default	DMX values
7	L EDFrequency	10	0–4 PWM frequency from Display menu 5–9 300 Hz 10–14 600 Hz 15–19 1200 Hz 20–24 2400 Hz 25–255 NoFeature
8	L EDFrequency Adjust	128	
9	Color Control	1	0–29 NoFunction 30–34 Standard CTO 8000-2700K 35–39 Extended CTO 10000-1800K 40–44 Colour mixing mode: CMY (DMX mode 1 and 2 only) 45–49 Colour mixing mode: RGB (DMX mode 1 and 2 only) 50–54 Dimmer curve Square law 55–59 Dimmer curve Linear 60–79 NoFeature 1 80–84 Tungsten effect simulation (750W): On 85–89 Tungsten effect simulation (1000W): On 90–94 Tungsten effect simulation (1200W): On 95–99 Tungsten effect simulation (2000W): On 100–104 Tungsten effect simulation (2500W): On 105–109 Tungsten effect simulation: Off 110–114 Save user colour 115–119 Chromatic white On 120–124 Chromatic white Off 125–129 Light output stability On 130–134 Light output stability Off 135–139 Uniformity On 140–144 Uniformity Off 145–152 NoFeature 2 153–154 1800K/High intensity 155–156 2700K/High intensity 157–158 3200K/High intensity 159–160 4200K/High intensity 161–162 5600K/High intensity 163–164 8000K/High intensity 165–166 10000K/High intensity 167–168 1800K/High CRI 169–170 2700K/High CRI 171–172 3200K/High CRI 173–174 4200K/High CRI 175–176 5600K/High CRI 177–178 8000K/High CRI 179–180 10000K/High CRI 181–182 Save Green/Blue correction 183–255 NoFeature 3
10	C RIMode	0	0–254 CRI 80 255–255 CRI 90+
11	Color Macro1	0	
12	Red	255	
13	Red Fine	255	Fine byte of Red
14	Green	255	
15	Green Fine	255	Fine byte of Green
16	Blue	255	
17	Blue Fine	255	Fine byte of Blue

Mode 1 - RGB (continued)

Ch	Function	Default	DMX values
18	C TO	110	0–1 8000 K 2–64 7978 K - > 6622 K 65–65 6600 K 66–109 6578K - > 5622 K 110–110 5600 K 111–179 5580 K - > 4220 K 180–180 4200 K 181–229 4180 K - > 3220 K 230–230 3200 K 231–254 3180 K - > 2720 K 255–255 2700K
19	Tint	128	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–254 Uncorrected white - > Plus green 255–255 Uncorrected white
20	Color Mix Mode	0	0–9 Virtual colours (Virtual has priority) 10–19 Maximum mode (highest values have priority) 20–29 Minimum mode (lowest values have priority) 30–39 Multiply mode (multiply Virtual and Colour mix) 40–49 Addition mode (Virtual + Colour mix) 50–59 Subtraction mode (Virtual - Colour mix) 60–69 Inverted Subtraction mode (Colour mix - Virtual) 70–79 White Point Off 80–128 Reserved 129–129 Crossfade Virtual only 130–254 Crossfade between Virtual and Colour mix 255–255 Crossfade Color mix only
21	Frame MSpeed	0	0–0 Standard mode 1–254 Min time mode 255–255 Max time mode
22	Scrim Pos	0	0–0 No function 1–255 Scrim inserting
23	Scrim Index	0	0–63 Scrim indexing 0 deg 64–127 Scrim indexing 90 deg 128–191 Scrim indexing 180 deg 192–254 Scrim indexing 270 deg 255–255 Scrim indexing 360 deg
24	Frost1	0	1–50 Light Frost from 0% to 100% 51–53 100% Light frost 54–63 Pulse closing from slow to fast 64–73 Pulse opening from fast to slow 74–83 Ramping from fast to slow 84–86 Open 87–136 Medium Frost from 0% to 100% 137–139 100% Medium Frost 140–149 Pulse closing from slow to fast 150–159 Pulse opening from fast to slow 160–169 Ramping from fast to slow 170–172 Open 173–222 Combined Frost from 0% to 100% 223–225 100% Combined Frost 226–235 Pulse closing from slow to fast 236–245 Pulse opening from fast to slow 246–255 Ramping from fast to slow
25	Zoom	128	
26	Zoom Fine	0	Fine byte of Zoom
27	Edge Color Correction	128	
28	Shaper Rot	128	

Mode 1 - RGB (continued)

Ch	Function	Default	DMX values
29	Blade1A	0	
30	Blade4A	0	
31	Blade3A	0	
32	Blade2A	0	
33	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 Strobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 Strobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 Strobe · Slow to fast 12/12 20 Hz 96–127 open 128–134 StrobePulseOpen · Slow to fast 1/7 0.1–0.26 Hz 135–140 StrobePulseOpen · Slow to fast 4/7 0.287–0.42 Hz 141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz 144–149 StrobePulseClose · Fast to slow 1/7 0.5–0.367 Hz 150–155 StrobePulseClose · Fast to slow 4/7 0.34–0.207 Hz 156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
34	Dimmer	0	0–254 Closed 255–255 Open
35	Dimmer Fine	0	Fine byte of Dimmer

Mode 3 - RGBAL

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	Position MSpeed	0	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode

Mode 3 - RGBAL (continued)

Ch	Function	Default	DMX values
6	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display On 25–29 Display Off 30–39 NoFeature 1 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 BO while PAN TILT moving: ON 55–59 BO while PAN TILT moving: OFF 60–69 NoFeature 2 70–74 Fan mode Auto 75–79 Fan mode High 80–84 Quiet mode: Fans ON at blackout 85–89 Quiet mode: Fans OFF at blackout 90–94 Fans mode: CPC-fans OFF 95–119 No feature 120–124 Parking position ON 125–129 Parking position OFF 130–139 Fixture reset (except pan/tilt) 140–149 PositionReset 150–179 NoFeature 4 180–189 Zoom/focus/frost/prism reset 190–199 Barnodoors/Scrim reset 200–209 Total fixture reset 210–211 Green/Blue correction calibration 212–239 NoFeature 5 240–240 Disabled Quiet mode 241–255 Quiet mode min to max
7	L EDFrequency	10	0–4 PWM frequency from Display menu 5–9 300 Hz 10–14 600 Hz 15–19 1200 Hz 20–24 2400 Hz 25–255 NoFeature
8	L EDFrequency Adjust	128	

Mode 3 - RGBAL (continued)

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

Mode 3 - RGBAL (continued)

Ch	Function	Default	DMX values
22	C TO	110	0–1 8000 K 2–64 7978 K - > 6622 K 65–65 6600 K 66–109 6578K - > 5622 K 110–110 5600 K 111–179 5580 K - > 4220 K 180–180 4200 K 181–229 4180 K - > 3220 K 230–230 3200 K 231–254 3180 K - > 2720 K 255–255 2700K
23	Tint	128	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–254 Uncorrected white - > Plus green 255–255 Uncorrected white
24	Color Mix Mode	0	0–9 Virtual colours (Virtual has priority) 10–19 Maximum mode (highest values have priority) 20–29 Minimum mode (lowest values have priority) 30–39 Multiply mode (multiply Virtual and Colour mix) 40–49 Addition mode (Virtual + Colour mix) 50–59 Subtraction mode (Virtual - Colour mix) 60–69 Inverted Subtraction mode (Colour mix - Virtual) 70–79 White Point Off 80–128 Reserved 129–129 Crossfade Virtual only 130–254 Crossfade between Virtual and Colour mix 255–255 Crossfade Color mix only
25	Frame MSpeed	0	0–0 Standard mode 1–254 Min time mode 255–255 Max time mode
26	Scrim Pos	0	0–0 No function 1–255 Scrim inserting
27	Scrim Index	128	0–63 Scrim indexing 0 deg 64–127 Scrim indexing 90 deg 128–191 Scrim indexing 180 deg 192–254 Scrim indexing 270 deg 255–255 Scrim indexing 360 deg
28	Frost1	0	1–50 Light Frost from 0% to 100% 51–53 100% Light frost 54–63 Pulse closing from slow to fast 64–73 Pulse opening from fast to slow 74–83 Ramping from fast to slow 84–86 Open 87–136 Medium Frost from 0% to 100% 137–139 100% Medium Frost 140–149 Pulse closing from slow to fast 150–159 Pulse opening from fast to slow 160–169 Ramping from fast to slow 170–172 Open 173–222 Combined Frost from 0% to 100% 223–225 100% Combined Frost 226–235 Pulse closing from slow to fast 236–245 Pulse opening from fast to slow 246–255 Ramping from fast to slow
29	Zoom	128	
30	Zoom Fine	0	Fine byte of Zoom
31	Edge Color Correction	128	
32	Shaper Rot	128	

Mode 3 - RGBAL (continued)

Ch	Function	Default	DMX values
33	Blade1A	0	
34	Blade4A	0	
35	Blade3A	0	
36	Blade2A	0	
37	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–79 Strobe · Slow to fast 1/12 0.3–9.83 Hz 80–94 Strobe · Slow to fast 6/12 10.5–19.4 Hz 95–95 Strobe · Slow to fast 12/12 20 Hz 96–127 open 128–134 StrobePulseOpen · Slow to fast 1/7 0.1–0.26 Hz 135–140 StrobePulseOpen · Slow to fast 4/7 0.287–0.42 Hz 141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz 144–149 StrobePulseClose · Fast to slow 1/7 0.5–0.367 Hz 150–155 StrobePulseClose · Fast to slow 4/7 0.34–0.207 Hz 156–159 StrobePulseClose · Fast to slow 7/7 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
38	Dimmer	0	0–254 Closed 255–255 Open
39	Dimmer Fine	0	Fine byte of Dimmer