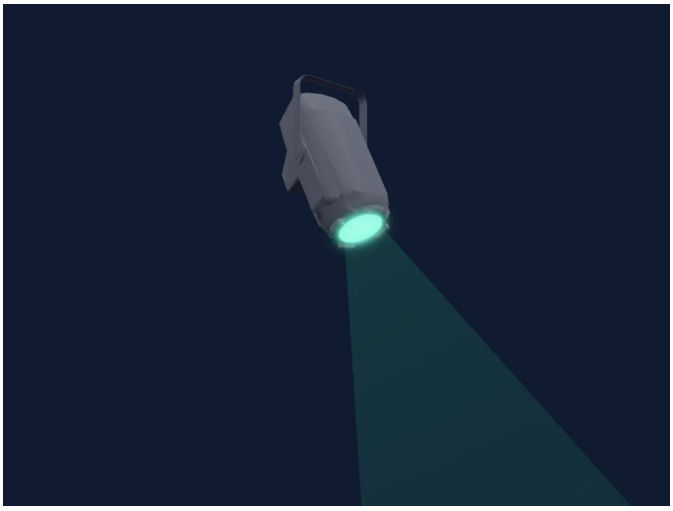
Robe Lighting

Robin iT12 Fresnel



Manufacturer	**Robe Lighting**
Type	**Profile spot**
DMX modes	**8**
DMX footprint	**24, 28, 32, 35, 36, 39, 43, 47 channels**
Beam angle	**6-60°**
Tilt range	**252°**
Size (W × H × D)	**319 × 651 × 360 mm**
GDTF fixture type	**88A977E0-C4B3-42C3-A0F4-C1…**

Controls

Focus · Frost · Iris · Zoom · CMY colour mixing · Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Animation wheel · Gobos · Gobo rotation

Safety-relevant functions

Fixture reset · Service functions

DMX modes

Mode 1 - 16-bit CMY	24 ch
Mode 2 - 16-bit RGBAL	28 ch
Mode 5 - 16-bit CMY + Gobo module	32 ch
Mode 3 - 16-bit CMY + Framing module	35 ch
Mode 6 - 16-bit RGBAL + Gobo module	36 ch
Mode 4 - 16-bit RGBAL + Framing module	39 ch
Mode 7 - 16-bit CMY + Gobo + Framing module	43 ch
Mode 8- 16-bit RGBAL Gobo+ Framing	47 ch

Mode 1 - 16-bit CMY

24 channels

Ch	Function	Default	DMX values
1	Control1	0	0–5 No function 6–7 Standby ON 8–9 Standby OFF 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display On 25–29 Display Off 30–34 Focus tracking ON 35–39 Focus tracking OFF 40–44 Pressure test ON 45–49 Pressure test OFF 50–59 NoFeature 1 60–64 BO while Gobo moving: ON 65–69 BO while Gobo moving: OFF 70–74 Fan mode Auto 75–79 Fan mode: High 80–84 Fans On at blackout 85–89 Fans Off at blackout 90–94 Fans mode: CPC-Fans OFF 95–129 NoFeature 2 130–131 Optics Brake ON 132–133 Optics Brake OFF 134–137 NoFeature 3 138–139 Playback saving current DMX 140–141 Preset playback ON 142–143 Preset playback OFF - listen to DMX on 142-143 144–174 No function 175–179 Gobo and Effect wheel reset 180–189 Zoom/ Focus/frost reset 190–199 Iris/ Framing shutters reset 200–209 Total fixture reset 210–211 Green/Blue correction calibration 212–218 No function 219–220 Gobo indexing Maximum speed and shortcut 221–222 Gobo indexing Follow speed and direction 223–224 Gobo indexing Maximum speed and follow directi… 225–239 No function 240–240 Disabled Quiet mode 241–255 Quiet mode min to max
2	L EDFrequency	30	0–4 PWM frequency from Display menu 5–9 300 Hz 10–14 600 Hz 15–19 1200 Hz 20–24 2400 Hz 25–29 High 30–255 NoFeature
3	L EDFrequency Adjust	128	

Mode 1 - 16-bit CMY (continued)

Ch	Function	Default	DMX values
4	Color Control	40	0–29 NoFeature 30–34 Standard CTO 8000-2700K 35–39 Extended CTO 10000-1800K 40–44 Colour mixing mode: CMY 45–49 Colour mixing mode: RGB+RGBAL 50–54 Dimmer curve Square law 55–59 Dimmer curve Linear 60–64 Dimmer curve Super square law 65–79 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 No function 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
5	C RIMode	0	0–254 CRI 85 255–255 CRI 90+

Mode 1 - 16-bit CMY (continued)

Ch	Function	Default	DMX values
6	Color Wheel	0	0–0 No function (wheel slot 1) 1–2 Filter 4 (Medium Bastard Amber) (wheel slot 2) 3–4 Filter 10 (Medium Yellow) (wheel slot 3) 5–6 Filter 19 (Fire) (wheel slot 4) 7–8 Filter 26 (Bright Red) (wheel slot 5) 9–10 Filter 58 (Lavender) (wheel slot 6) 11–12 Filter 68 (Sky Blue) (wheel slot 7) 13–14 Filter 71 (Tokyo Blue) (wheel slot 8) 15–16 Filter 79 (Just Blue) (wheel slot 9) 17–18 Filter 88 (Lime Green) (wheel slot 10) 19–20 Filter 90 (Dark Yellow Green) (wheel slot 11) 21–22 Filter 100 (Spring Yellow) (wheel slot 12) 23–24 Filter 101 (Yellow) (wheel slot 13) 25–26 Filter 102 (Light Amber) (wheel slot 14) 27–28 Filter 103 (Straw) (wheel slot 15) 29–30 Filter 104 (Deep Amber) (wheel slot 16) 31–32 Filter 105 (Orange) (wheel slot 17) 33–34 Filter 106 (Primary Red) (wheel slot 18) 35–36 Filter 111 (Dark Pink) (wheel slot 19) 37–38 Filter 115 (Peacock Blue) (wheel slot 20) 39–40 Filter 116 (Medium Blue - Green) (wheel slot 21) 41–42 Filter 117 (Steel Blue) (wheel slot 22) 43–44 Filter 118 (Light Blue) (wheel slot 23) 45–46 Filter 119 (Dark Blue) (wheel slot 24) 47–48 Filter 120 (Deep Blue) (wheel slot 25) 49–50 Filter 121 (Filter Green) (wheel slot 26) 51–52 Filter 128 (Bright Pink) (wheel slot 27) 53–54 Filter 131 (Marine Blue) (wheel slot 28) 55–56 Filter 132 (Medium Blue) (wheel slot 29) 57–58 Filter 134 (Golden Amber) (wheel slot 30) 59–60 Filter 135 (Deep Golden Amber) (wheel slot 31) 61–62 Filter 136 (Pale Lavender) (wheel slot 32) 63–64 Filter 137 (Special Lavender) (wheel slot 33) 65–66 Filter 138 (Pale Green) (wheel slot 34) 67–68 Filter 139 (Primary Green) (wheel slot 35) 69–70 Filter 141 (Bright Blue) (wheel slot 36) 71–72 Filter 147 (Apricot) (wheel slot 37) 73–74 Filter 148 (Bright Rose) (wheel slot 38) 75–76 Filter 152 (Pale Gold) (wheel slot 39) 77–78 Filter 154 (Pale Rose) (wheel slot 40) 79–80 Filter 157 (Pink) (wheel slot 41) 81–82 Filter 158 (Deep Orange) (wheel slot 42) 83–84 Filter 162 (Bastard Amber) (wheel slot 43) 85–86 Filter 164 (Flame Red) (wheel slot 44) 87–88 Filter 165 (Daylight Blue) (wheel slot 45) 89–90 Filter 169 (Lilac Tint) (wheel slot 46) 91–92 Filter 170 (Deep Lavender) (wheel slot 47) 93–94 Filter 172 (Lagoon Blue) (wheel slot 48) 95–96 Filter 179 (Chrome Orange) (wheel slot 49) 97–98 Filter 180 (Dark Lavender) (wheel slot 50) 99–100 Filter 181 (Congo Blue) (wheel slot 51) 101–102 Filter 197 (Alice Blue) (wheel slot 52) 103–104 Filter 201 (Full CT Blue) (wheel slot 53) 105–106 Filter 202 (Half CT Blue) (wheel slot 54) 107–108 Filter 203 (Quarter CT Blue) (wheel slot 55) 109–110 Filter 204 (Full CT Orange) (wheel slot 56) 111–112 Filter 205 (Half CT Orange) (wheel slot 57) 113–114 Filter 206 (Quarter CT Orange) (wheel slot 58) 115–116 Filter 247 (Filter Minus Green) (wheel slot 59) 117–118 Filter 248 (Half Minus Green) (wheel slot 60) 119–120 Filter 281 (Three Quarter CT Blue) (wheel slot 61) 121–122 Filter 285 (Three Quarter CT Orange) (wheel slot 62) 123–124 Filter 352 (Glacier Blue) (wheel slot 63) 125–126 Filter 353 (Lighter Blue) (wheel slot 64)

Mode 1 - 16-bit CMY (continued)

Ch	Function	Default	DMX values
7	Cyan	0	
8	Cyan Fine	0	Fine byte of Cyan
9	Magenta	0	
10	Magenta Fine	0	Fine byte of Magenta
11	Yellow	0	
12	Yellow Fine	0	Fine byte of Yellow
13	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
14	Tint	128	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–255 Uncorrected white - > Plus green
15	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
16	Global MSpeed	0	0–0 Function OFF 1–255 Time from min to max (1-25sec)
17	Frost1	0	0–0 Open 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 Medium Frost 0% - 100% 223–225 100% Medium frost 226–235 Pulse closing slow to fast 236–245 Pulse closing fast to slow 246–255 Ramping fast to slow
18	Zoom	127	
19	Zoom Fine	255	Fine byte of Zoom
20	Focus	128	
21	Focus Fine	128	Fine byte of Focus

Mode 1 - 16-bit CMY (continued)

Ch	Function	Default	DMX values
22	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Strobe · Slow to fast - Slow 0.3–19.4 Hz 95–95 Strobe · Slow to fast - Fast 20 Hz 96–127 open 128–140 StrobePulseOpen · Slow to fast - Slow 0.1–0.42 Hz 141–143 StrobePulseOpen · Slow to fast - Fast 0.447–0.5 Hz 144–155 StrobePulseClose · Fast to slow - Fast 0.5–0.207 Hz 156–159 StrobePulseClose · Fast to slow - Slow 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
23	Dimmer	0	0–254 Closed 255–255 Open
24	Dimmer Fine	0	Fine byte of Dimmer

Mode 2 - 16-bit RGBAL

28 channels

Ch	Function	Default	DMX values
1	Control1	0	0–5 No function 6–7 Standby ON 8–9 Standby OFF 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display On 25–29 Display Off 30–34 Focus tracking ON 35–39 Focus tracking OFF 40–44 Pressure test ON 45–49 Pressure test OFF 50–59 NoFeature 1 60–64 BO while Gobo moving: ON 65–69 BO while Gobo moving: OFF 70–74 Fan mode Auto 75–79 Fan mode: High 80–84 Fans On at blackout 85–89 Fans Off at blackout 90–94 Fans mode: CPC-Fans OFF 95–129 NoFeature 2 130–131 Optics Brake ON 132–133 Optics Brake OFF 134–137 NoFeature 3 138–139 Playback saving current DMX 140–141 Preset playback ON 142–143 Preset playback OFF - listen to DMX on 142-143 144–174 No function 175–179 Gobo and Effect wheel reset 180–189 Zoom/ Focus/frost reset 190–199 Iris/ Framing shutters reset 200–209 Total fixture reset 210–211 Green/Blue correction calibration 212–218 No function 219–220 Gobo indexing Maximum speed and shortcut 221–222 Gobo indexing Follow speed and direction 223–224 Gobo indexing Maximum speed and follow directi… 225–239 No function 240–240 Disabled Quiet mode 241–255 Quiet mode min to max

Mode 2 - 16-bit RGBAL (continued)

Ch	Function	Default	DMX values
2	L EDFrequency	30	0–4 PWM frequency from Display menu 5–9 300 Hz 10–14 600 Hz 15–19 1200 Hz 20–24 2400 Hz 25–29 High 30–255 NoFeature
3	L EDFrequency Adjust	128	
4	Color Control	40	0–29 NoFeature 30–34 Standard CTO 8000-2700K 35–39 Extended CTO 10000-1800K 40–44 Colour mixing mode: CMY 45–49 Colour mixing mode: RGB+RGBAL 50–54 Dimmer curve Square law 55–59 Dimmer curve Linear 60–64 Dimmer curve Super square law 65–79 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 No function 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
5	C RIMode	0	0–254 CRI 85 255–255 CRI 90+

Mode 2 - 16-bit RGBAL (continued)

Ch	Function	Default	DMX values
6	Color Wheel	0	0–0 No function (wheel slot 1) 1–2 Filter 4 (Medium Bastard Amber) (wheel slot 2) 3–4 Filter 10 (Medium Yellow) (wheel slot 3) 5–6 Filter 19 (Fire) (wheel slot 4) 7–8 Filter 26 (Bright Red) (wheel slot 5) 9–10 Filter 58 (Lavender) (wheel slot 6) 11–12 Filter 68 (Sky Blue) (wheel slot 7) 13–14 Filter 71 (Tokyo Blue) (wheel slot 8) 15–16 Filter 79 (Just Blue) (wheel slot 9) 17–18 Filter 88 (Lime Green) (wheel slot 10) 19–20 Filter 90 (Dark Yellow Green) (wheel slot 11) 21–22 Filter 100 (Spring Yellow) (wheel slot 12) 23–24 Filter 101 (Yellow) (wheel slot 13) 25–26 Filter 102 (Light Amber) (wheel slot 14) 27–28 Filter 103 (Straw) (wheel slot 15) 29–30 Filter 104 (Deep Amber) (wheel slot 16) 31–32 Filter 105 (Orange) (wheel slot 17) 33–34 Filter 106 (Primary Red) (wheel slot 18) 35–36 Filter 111 (Dark Pink) (wheel slot 19) 37–38 Filter 115 (Peacock Blue) (wheel slot 20) 39–40 Filter 116 (Medium Blue - Green) (wheel slot 21) 41–42 Filter 117 (Steel Blue) (wheel slot 22) 43–44 Filter 118 (Light Blue) (wheel slot 23) 45–46 Filter 119 (Dark Blue) (wheel slot 24) 47–48 Filter 120 (Deep Blue) (wheel slot 25) 49–50 Filter 121 (Filter Green) (wheel slot 26) 51–52 Filter 128 (Bright Pink) (wheel slot 27) 53–54 Filter 131 (Marine Blue) (wheel slot 28) 55–56 Filter 132 (Medium Blue) (wheel slot 29) 57–58 Filter 134 (Golden Amber) (wheel slot 30) 59–60 Filter 135 (Deep Golden Amber) (wheel slot 31) 61–62 Filter 136 (Pale Lavender) (wheel slot 32) 63–64 Filter 137 (Special Lavender) (wheel slot 33) 65–66 Filter 138 (Pale Green) (wheel slot 34) 67–68 Filter 139 (Primary Green) (wheel slot 35) 69–70 Filter 141 (Bright Blue) (wheel slot 36) 71–72 Filter 147 (Apricot) (wheel slot 37) 73–74 Filter 148 (Bright Rose) (wheel slot 38) 75–76 Filter 152 (Pale Gold) (wheel slot 39) 77–78 Filter 154 (Pale Rose) (wheel slot 40) 79–80 Filter 157 (Pink) (wheel slot 41) 81–82 Filter 158 (Deep Orange) (wheel slot 42) 83–84 Filter 162 (Bastard Amber) (wheel slot 43) 85–86 Filter 164 (Flame Red) (wheel slot 44) 87–88 Filter 165 (Daylight Blue) (wheel slot 45) 89–90 Filter 169 (Lilac Tint) (wheel slot 46) 91–92 Filter 170 (Deep Lavender) (wheel slot 47) 93–94 Filter 172 (Lagoon Blue) (wheel slot 48) 95–96 Filter 179 (Chrome Orange) (wheel slot 49) 97–98 Filter 180 (Dark Lavender) (wheel slot 50) 99–100 Filter 181 (Congo Blue) (wheel slot 51) 101–102 Filter 197 (Alice Blue) (wheel slot 52) 103–104 Filter 201 (Full CT Blue) (wheel slot 53) 105–106 Filter 202 (Half CT Blue) (wheel slot 54) 107–108 Filter 203 (Quarter CT Blue) (wheel slot 55) 109–110 Filter 204 (Full CT Orange) (wheel slot 56) 111–112 Filter 205 (Half CT Orange) (wheel slot 57) 113–114 Filter 206 (Quarter CT Orange) (wheel slot 58) 115–116 Filter 247 (Filter Minus Green) (wheel slot 59) 117–118 Filter 248 (Half Minus Green) (wheel slot 60) 119–120 Filter 281 (Three Quarter CT Blue) (wheel slot 61) 121–122 Filter 285 (Three Quarter CT Orange) (wheel slot 62) 123–124 Filter 352 (Glacier Blue) (wheel slot 63) 125–126 Filter 353 (Lighter Blue) (wheel slot 64)

Mode 2 - 16-bit RGBAL (continued)

Ch	Function	Default	DMX values
7	Red	255	
8	Red Fine	255	Fine byte of Red
9	Green	255	
10	Green Fine	255	Fine byte of Green
11	Blue	255	
12	Blue Fine	255	Fine byte of Blue
13	Color Add RY	255	
14	Color Add RY Fine	255	Fine byte of Color Add RY
15	Color Add GY	255	
16	Color Add GY Fine	255	Fine byte of Color Add GY
17	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
18	Tint	128	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–255 Uncorrected white - > Plus green
19	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
20	Global MSpeed	0	0–0 Function OFF 1–255 Time from min to max (1-25sec)
21	Frost1	0	0–0 Open 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 Medium Frost 0% - 100% 223–225 100% Medium frost 226–235 Pulse closing slow to fast 236–245 Pulse closing fast to slow 246–255 Ramping fast to slow

Mode 2 - 16-bit RGBAL (continued)

Ch	Function	Default	DMX values
22	Zoom	127	
23	Zoom Fine	255	Fine byte of Zoom
24	Focus	128	
25	Focus Fine	128	Fine byte of Focus
26	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Strobe · Slow to fast - Slow 0.3–19.4 Hz 95–95 Strobe · Slow to fast - Fast 20 Hz 96–127 open 128–140 StrobePulseOpen · Slow to fast - Slow 0.1–0.42 Hz 141–143 StrobePulseOpen · Slow to fast - Fast 0.447–0.5 Hz 144–155 StrobePulseClose · Fast to slow - Fast 0.5–0.207 Hz 156–159 StrobePulseClose · Fast to slow - Slow 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
27	Dimmer	0	0–254 Closed 255–255 Open
28	Dimmer Fine	0	Fine byte of Dimmer

Mode 5 - 16-bit CMY + Gobo module

32 channels

Ch	Function	Default	DMX values

Mode 5 - 16-bit CMY + Gobo module (continued)

Ch	Function	Default	DMX values
1	Control1	0	0–5 No function 6–7 Standby ON 8–9 Standby OFF 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display On 25–29 Display Off 30–34 Focus tracking ON 35–39 Focus tracking OFF 40–44 Pressure test ON 45–49 Pressure test OFF 50–59 NoFeature 1 60–64 BO while Gobo moving: ON 65–69 BO while Gobo moving: OFF 70–74 Fan mode Auto 75–79 Fan mode: High 80–84 Fans On at blackout 85–89 Fans Off at blackout 90–94 Fans mode: CPC-Fans OFF 95–129 NoFeature 2 130–131 Optics Brake ON 132–133 Optics Brake OFF 134–137 NoFeature 3 138–139 Playback saving current DMX 140–141 Preset playback ON 142–143 Preset playback OFF - listen to DMX on 142-143 144–174 No function 175–179 Gobo and Effect wheel reset 180–189 Zoom/ Focus/frost reset 190–199 Iris/ Framing shutters reset 200–209 Total fixture reset 210–211 Green/Blue correction calibration 212–218 No function 219–220 Gobo indexing Maximum speed and shortcut 221–222 Gobo indexing Follow speed and direction 223–224 Gobo indexing Maximum speed and follow directi… 225–239 No function 240–240 Disabled Quiet mode 241–255 Quiet mode min to max
2	L EDFrequency	30	0–4 PWM frequency from Display menu 5–9 300 Hz 10–14 600 Hz 15–19 1200 Hz 20–24 2400 Hz 25–29 High 30–255 NoFeature
3	L EDFrequency Adjust	128	

Mode 5 - 16-bit CMY + Gobo module (continued)

Ch	Function	Default	DMX values
4	Color Control	40	0–29 NoFeature 30–34 Standard CTO 8000-2700K 35–39 Extended CTO 10000-1800K 40–44 Colour mixing mode: CMY 45–49 Colour mixing mode: RGB+RGBAL 50–54 Dimmer curve Square law 55–59 Dimmer curve Linear 60–64 Dimmer curve Super square law 65–79 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 No function 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
5	C RIMode	0	0–254 CRI 85 255–255 CRI 90+

Mode 5 - 16-bit CMY + Gobo module (continued)

Ch	Function	Default	DMX values
6	Color Wheel	0	0–0 No function (wheel slot 1) 1–2 Filter 4 (Medium Bastard Amber) (wheel slot 2) 3–4 Filter 10 (Medium Yellow) (wheel slot 3) 5–6 Filter 19 (Fire) (wheel slot 4) 7–8 Filter 26 (Bright Red) (wheel slot 5) 9–10 Filter 58 (Lavender) (wheel slot 6) 11–12 Filter 68 (Sky Blue) (wheel slot 7) 13–14 Filter 71 (Tokyo Blue) (wheel slot 8) 15–16 Filter 79 (Just Blue) (wheel slot 9) 17–18 Filter 88 (Lime Green) (wheel slot 10) 19–20 Filter 90 (Dark Yellow Green) (wheel slot 11) 21–22 Filter 100 (Spring Yellow) (wheel slot 12) 23–24 Filter 101 (Yellow) (wheel slot 13) 25–26 Filter 102 (Light Amber) (wheel slot 14) 27–28 Filter 103 (Straw) (wheel slot 15) 29–30 Filter 104 (Deep Amber) (wheel slot 16) 31–32 Filter 105 (Orange) (wheel slot 17) 33–34 Filter 106 (Primary Red) (wheel slot 18) 35–36 Filter 111 (Dark Pink) (wheel slot 19) 37–38 Filter 115 (Peacock Blue) (wheel slot 20) 39–40 Filter 116 (Medium Blue - Green) (wheel slot 21) 41–42 Filter 117 (Steel Blue) (wheel slot 22) 43–44 Filter 118 (Light Blue) (wheel slot 23) 45–46 Filter 119 (Dark Blue) (wheel slot 24) 47–48 Filter 120 (Deep Blue) (wheel slot 25) 49–50 Filter 121 (Filter Green) (wheel slot 26) 51–52 Filter 128 (Bright Pink) (wheel slot 27) 53–54 Filter 131 (Marine Blue) (wheel slot 28) 55–56 Filter 132 (Medium Blue) (wheel slot 29) 57–58 Filter 134 (Golden Amber) (wheel slot 30) 59–60 Filter 135 (Deep Golden Amber) (wheel slot 31) 61–62 Filter 136 (Pale Lavender) (wheel slot 32) 63–64 Filter 137 (Special Lavender) (wheel slot 33) 65–66 Filter 138 (Pale Green) (wheel slot 34) 67–68 Filter 139 (Primary Green) (wheel slot 35) 69–70 Filter 141 (Bright Blue) (wheel slot 36) 71–72 Filter 147 (Apricot) (wheel slot 37) 73–74 Filter 148 (Bright Rose) (wheel slot 38) 75–76 Filter 152 (Pale Gold) (wheel slot 39) 77–78 Filter 154 (Pale Rose) (wheel slot 40) 79–80 Filter 157 (Pink) (wheel slot 41) 81–82 Filter 158 (Deep Orange) (wheel slot 42) 83–84 Filter 162 (Bastard Amber) (wheel slot 43) 85–86 Filter 164 (Flame Red) (wheel slot 44) 87–88 Filter 165 (Daylight Blue) (wheel slot 45) 89–90 Filter 169 (Lilac Tint) (wheel slot 46) 91–92 Filter 170 (Deep Lavender) (wheel slot 47) 93–94 Filter 172 (Lagoon Blue) (wheel slot 48) 95–96 Filter 179 (Chrome Orange) (wheel slot 49) 97–98 Filter 180 (Dark Lavender) (wheel slot 50) 99–100 Filter 181 (Congo Blue) (wheel slot 51) 101–102 Filter 197 (Alice Blue) (wheel slot 52) 103–104 Filter 201 (Full CT Blue) (wheel slot 53) 105–106 Filter 202 (Half CT Blue) (wheel slot 54) 107–108 Filter 203 (Quarter CT Blue) (wheel slot 55) 109–110 Filter 204 (Full CT Orange) (wheel slot 56) 111–112 Filter 205 (Half CT Orange) (wheel slot 57) 113–114 Filter 206 (Quarter CT Orange) (wheel slot 58) 115–116 Filter 247 (Filter Minus Green) (wheel slot 59) 117–118 Filter 248 (Half Minus Green) (wheel slot 60) 119–120 Filter 281 (Three Quarter CT Blue) (wheel slot 61) 121–122 Filter 285 (Three Quarter CT Orange) (wheel slot 62) 123–124 Filter 352 (Glacier Blue) (wheel slot 63) 125–126 Filter 353 (Lighter Blue) (wheel slot 64)

Mode 5 - 16-bit CMY + Gobo module (continued)

Ch	Function	Default	DMX values
7	Cyan	0	
8	Cyan Fine	0	Fine byte of Cyan
9	Magenta	0	
10	Magenta Fine	0	Fine byte of Magenta
11	Yellow	0	
12	Yellow Fine	0	Fine byte of Yellow
13	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
14	Tint	128	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–255 Uncorrected white - > Plus green
15	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
16	Global MSpeed	0	0–0 Function OFF 1–255 Time from min to max (1-25sec)
17	Animation Wheel1	0	0–19 Open 20–72 Proportional indexing min (wheel slot 1) 73–126 Proportional indexing center (wheel slot 1) 127–127 Proportional indexing max (wheel slot 1) 128–169 Ramping from open to full position max (wheel slo... 170–170 Ramping from open to full position min (wheel slo... 171–212 Ramping from open to half position max (wheel sl... 213–213 Ramping from open to half position min (wheel sl... 214–254 Ramp from half position to full position max (whe... 255–255 Ramp from half position to full position min (whee...
18	Animation Wheel1Pos	128	0–0 No rotation 1–124 Fast to slow - Fast 125–127 Fast to slow - Slow 128–128 No rotation middle 129–232 Slow to fast - Slow 233–255 Slow to fast - Fast

Mode 5 - 16-bit CMY + Gobo module (continued)

Ch	Function	Default	DMX values
19	Animation Wheel1Select Effects	0	0–7 No animation 8–9 Macro 1 (Focus=94) 10–11 Macro 2 (Focus=84) 12–13 Macro 3 (Focus=87) 14–15 Macro 4 (Focus=69) 16–17 Macro 5 (Focus=82) 18–19 Macro 6 (Focus=82) 20–21 Macro 7 (Focus=72) 22–23 Macro 8 (Focus=86) 24–25 Macro 9 (Focus=78) 26–27 Macro 10 (Focus=102) 28–255 NoFeature
20	Gobo	0	0–8 Open/Hole (wheel slot 1) 9–17 Gobo 1 (wheel slot 2) 18–26 Gobo 2 (wheel slot 3) 27–35 Gobo 3 (wheel slot 4) 36–44 Gobo 4 (wheel slot 5) 45–53 Gobo 5 (wheel slot 6) 54–62 Gobo 6 (wheel slot 7) 63–71 Gobo 7 (wheel slot 8) 72–80 Gobo 8 (wheel slot 9) 81–91 Gobo 9 (wheel slot 10) 92–103 Gobo 1 - Shaking (wheel slot 2) 104–115 Gobo 2 - Shaking (wheel slot 3) 116–127 Gobo 3 - Shaking (wheel slot 4) 128–139 Gobo 4 - Shaking (wheel slot 5) 140–151 Gobo 5 - Shaking (wheel slot 6) 152–163 Gobo 6 - Shaking (wheel slot 7) 164–175 Gobo 7 - Shaking (wheel slot 8) 176–187 Gobo 8 - Shaking (wheel slot 9) 188–199 Gobo 9 - Shaking (wheel slot 10) 200–201 Open/ hole (wheel slot 1) 202–220 Fast to slow - Fast 221–222 Fast to slow - Slow 223–242 Slow to fast - Slow 243–243 Slow to fast - Fast 244–249 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow

Mode 5 - 16-bit CMY + Gobo module (continued)

Ch	Function	Default	DMX values
21	Gobo 2	0	0–3 Open/hole (wheel slot 1) 4–7 Gobo 1 (wheel slot 2) 8–11 Gobo 2 (wheel slot 3) 12–15 Gobo 3 (wheel slot 4) 16–19 Gobo 4 (wheel slot 5) 20–23 Gobo 5 (wheel slot 6) 24–27 Gobo 6 (wheel slot 7) 28–31 Gobo 7 (wheel slot 8) 32–35 Gobo 1 - Rotation (wheel slot 2) 36–39 Gobo 2 - Rotation (wheel slot 3) 40–43 Gobo 3 - Rotation (wheel slot 4) 44–47 Gobo 4 - Rotation (wheel slot 5) 48–51 Gobo 5 - Rotation (wheel slot 6) 52–55 Gobo 6 - Rotation (wheel slot 7) 56–59 Gobo 7 - Rotation (wheel slot 8) 60–67 Open Prop Index (wheel slot 1) 68–75 G01 Prop Index (wheel slot 2) 76–83 G02 Prop Index (wheel slot 3) 84–91 G03 Prop Index (wheel slot 4) 92–99 G04 Prop Index (wheel slot 5) 100–107 G05 Prop Index (wheel slot 6) 108–115 G06 Prop Index (wheel slot 7) 116–123 G07 Prop Index (wheel slot 8) 124–124 Open End Prop Index (wheel slot 1) 125–132 Open Prop Rot (wheel slot 1) 133–140 G01 Prop Rot (wheel slot 2) 141–148 G02 Prop Rot (wheel slot 3) 149–156 G03 Prop Rot (wheel slot 4) 157–164 G04 Prop Rot (wheel slot 5) 165–172 G05 Prop Rot (wheel slot 6) 173–180 G06 Prop Rot (wheel slot 7) 181–188 G07 Prop Rot (wheel slot 8) 189–201 Open End Prop Rot (wheel slot 1) 202–220 Fast to slow - Fast 221–222 Fast to slow - Slow 223–242 Slow to fast - Slow 243–243 Slow to fast - Fast 244–248 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow
22	Gobo 2 Fine	0	Fine byte of Gobo 2
23	Gobo Rotation 2	128	0–0 Gobo indexing min 1–123 Fast to slow - Fast 124–127 Fast to slow - Slow 128–128 Gobo indexing center 129–231 Slow to fast - Slow 232–255 Slow to fast - Fast
24	Gobo Rotation 2 Fine	0	Fine byte of Gobo Rotation 2

Mode 5 - 16-bit CMY + Gobo module (continued)

Ch	Function	Default	DMX values
25	Frost1	0	0–0 Open 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 Medium Frost 0% - 100% 223–225 100% Medium frost 226–235 Pulse closing slow to fast 236–245 Pulse closing fast to slow 246–255 Ramping fast to slow
26	Zoom	127	
27	Zoom Fine	255	Fine byte of Zoom
28	Focus	128	
29	Focus Fine	128	Fine byte of Focus
30	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Strobe · Slow to fast - Slow 0.3–19.4 Hz 95–95 Strobe · Slow to fast - Fast 20 Hz 96–127 open 128–140 StrobePulseOpen · Slow to fast - Slow 0.1–0.42 Hz 141–143 StrobePulseOpen · Slow to fast - Fast 0.447–0.5 Hz 144–155 StrobePulseClose · Fast to slow - Fast 0.5–0.207 Hz 156–159 StrobePulseClose · Fast to slow - Slow 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
31	Dimmer	0	0–254 Closed 255–255 Open
32	Dimmer Fine	0	Fine byte of Dimmer

Mode 3 - 16-bit CMY + Framing module

35 channels

Ch	Function	Default	DMX values

Mode 3 - 16-bit CMY + Framing module (continued)

Ch	Function	Default	DMX values
1	Control1	0	0–5 No function 6–7 Standby ON 8–9 Standby OFF 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display On 25–29 Display Off 30–34 Focus tracking ON 35–39 Focus tracking OFF 40–44 Pressure test ON 45–49 Pressure test OFF 50–59 NoFeature 1 60–64 BO while Gobo moving: ON 65–69 BO while Gobo moving: OFF 70–74 Fan mode Auto 75–79 Fan mode: High 80–84 Fans On at blackout 85–89 Fans Off at blackout 90–94 Fans mode: CPC-Fans OFF 95–129 NoFeature 2 130–131 Optics Brake ON 132–133 Optics Brake OFF 134–137 NoFeature 3 138–139 Playback saving current DMX 140–141 Preset playback ON 142–143 Preset playback OFF - listen to DMX on 142-143 144–174 No function 175–179 Gobo and Effect wheel reset 180–189 Zoom/ Focus/frost reset 190–199 Iris/ Framing shutters reset 200–209 Total fixture reset 210–211 Green/Blue correction calibration 212–218 No function 219–220 Gobo indexing Maximum speed and shortcut 221–222 Gobo indexing Follow speed and direction 223–224 Gobo indexing Maximum speed and follow directi… 225–239 No function 240–240 Disabled Quiet mode 241–255 Quiet mode min to max
2	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 25–29 High 30–255 NoFeature
3	L EDFrequency Adjust	128	

Mode 3 - 16-bit CMY + Framing module (continued)

Ch	Function	Default	DMX values
4	Color Control	40	0–29 NoFeature 30–34 Standard CTO 8000-2700K 35–39 Extended CTO 10000-1800K 40–44 Colour mixing mode: CMY 45–49 Colour mixing mode: RGB+RGBAL 50–54 Dimmer curve Square law 55–59 Dimmer curve Linear 60–64 Dimmer curve Super square law 65–79 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 No function 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
5	C RIMode	0	0–254 CRI 85 255–255 CRI 90+

Mode 3 - 16-bit CMY + Framing module (continued)

Ch	Function	Default	DMX values
6	Color Wheel	0	0–0 No function (wheel slot 1) 1–2 Filter 4 (Medium Bastard Amber) (wheel slot 2) 3–4 Filter 10 (Medium Yellow) (wheel slot 3) 5–6 Filter 19 (Fire) (wheel slot 4) 7–8 Filter 26 (Bright Red) (wheel slot 5) 9–10 Filter 58 (Lavender) (wheel slot 6) 11–12 Filter 68 (Sky Blue) (wheel slot 7) 13–14 Filter 71 (Tokyo Blue) (wheel slot 8) 15–16 Filter 79 (Just Blue) (wheel slot 9) 17–18 Filter 88 (Lime Green) (wheel slot 10) 19–20 Filter 90 (Dark Yellow Green) (wheel slot 11) 21–22 Filter 100 (Spring Yellow) (wheel slot 12) 23–24 Filter 101 (Yellow) (wheel slot 13) 25–26 Filter 102 (Light Amber) (wheel slot 14) 27–28 Filter 103 (Straw) (wheel slot 15) 29–30 Filter 104 (Deep Amber) (wheel slot 16) 31–32 Filter 105 (Orange) (wheel slot 17) 33–34 Filter 106 (Primary Red) (wheel slot 18) 35–36 Filter 111 (Dark Pink) (wheel slot 19) 37–38 Filter 115 (Peacock Blue) (wheel slot 20) 39–40 Filter 116 (Medium Blue - Green) (wheel slot 21) 41–42 Filter 117 (Steel Blue) (wheel slot 22) 43–44 Filter 118 (Light Blue) (wheel slot 23) 45–46 Filter 119 (Dark Blue) (wheel slot 24) 47–48 Filter 120 (Deep Blue) (wheel slot 25) 49–50 Filter 121 (Filter Green) (wheel slot 26) 51–52 Filter 128 (Bright Pink) (wheel slot 27) 53–54 Filter 131 (Marine Blue) (wheel slot 28) 55–56 Filter 132 (Medium Blue) (wheel slot 29) 57–58 Filter 134 (Golden Amber) (wheel slot 30) 59–60 Filter 135 (Deep Golden Amber) (wheel slot 31) 61–62 Filter 136 (Pale Lavender) (wheel slot 32) 63–64 Filter 137 (Special Lavender) (wheel slot 33) 65–66 Filter 138 (Pale Green) (wheel slot 34) 67–68 Filter 139 (Primary Green) (wheel slot 35) 69–70 Filter 141 (Bright Blue) (wheel slot 36) 71–72 Filter 147 (Apricot) (wheel slot 37) 73–74 Filter 148 (Bright Rose) (wheel slot 38) 75–76 Filter 152 (Pale Gold) (wheel slot 39) 77–78 Filter 154 (Pale Rose) (wheel slot 40) 79–80 Filter 157 (Pink) (wheel slot 41) 81–82 Filter 158 (Deep Orange) (wheel slot 42) 83–84 Filter 162 (Bastard Amber) (wheel slot 43) 85–86 Filter 164 (Flame Red) (wheel slot 44) 87–88 Filter 165 (Daylight Blue) (wheel slot 45) 89–90 Filter 169 (Lilac Tint) (wheel slot 46) 91–92 Filter 170 (Deep Lavender) (wheel slot 47) 93–94 Filter 172 (Lagoon Blue) (wheel slot 48) 95–96 Filter 179 (Chrome Orange) (wheel slot 49) 97–98 Filter 180 (Dark Lavender) (wheel slot 50) 99–100 Filter 181 (Congo Blue) (wheel slot 51) 101–102 Filter 197 (Alice Blue) (wheel slot 52) 103–104 Filter 201 (Full CT Blue) (wheel slot 53) 105–106 Filter 202 (Half CT Blue) (wheel slot 54) 107–108 Filter 203 (Quarter CT Blue) (wheel slot 55) 109–110 Filter 204 (Full CT Orange) (wheel slot 56) 111–112 Filter 205 (Half CT Orange) (wheel slot 57) 113–114 Filter 206 (Quarter CT Orange) (wheel slot 58) 115–116 Filter 247 (Filter Minus Green) (wheel slot 59) 117–118 Filter 248 (Half Minus Green) (wheel slot 60) 119–120 Filter 281 (Three Quarter CT Blue) (wheel slot 61) 121–122 Filter 285 (Three Quarter CT Orange) (wheel slot 62) 123–124 Filter 352 (Glacier Blue) (wheel slot 63) 125–126 Filter 353 (Lighter Blue) (wheel slot 64)

Mode 3 - 16-bit CMY + Framing module (continued)

Ch	Function	Default	DMX values
7	Cyan	0	
8	Cyan Fine	0	Fine byte of Cyan
9	Magenta	0	
10	Magenta Fine	0	Fine byte of Magenta
11	Yellow	0	
12	Yellow Fine	0	Fine byte of Yellow
13	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
14	Tint	128	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–255 Uncorrected white - > Plus green
15	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
16	Global MSpeed	0	0–0 Function OFF 1–255 Time from min to max (1-25sec)
17	Frost1	0	0–0 Open 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 Medium Frost 0% - 100% 223–225 100% Medium frost 226–235 Pulse closing slow to fast 236–245 Pulse closing fast to slow 246–255 Ramping fast to slow

Mode 3 - 16-bit CMY + Framing module (continued)

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

Mode 3 - 16-bit CMY + Framing module (continued)

Ch	Function	Default	DMX values
33	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Strobe · Slow to fast - Slow 0.3–19.4 Hz 95–95 Strobe · Slow to fast - Fast 20 Hz 96–127 open 128–140 StrobePulseOpen · Slow to fast - Slow 0.1–0.42 Hz 141–143 StrobePulseOpen · Slow to fast - Fast 0.447–0.5 Hz 144–155 StrobePulseClose · Fast to slow - Fast 0.5–0.207 Hz 156–159 StrobePulseClose · Fast to slow - Slow 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 6 - 16-bit RGBAL + Gobo module

36 channels

Ch	Function	Default	DMX values
1	Control1	0	0–5 No function 6–7 Standby ON 8–9 Standby OFF 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display On 25–29 Display Off 30–34 Focus tracking ON 35–39 Focus tracking OFF 40–44 Pressure test ON 45–49 Pressure test OFF 50–59 NoFeature 1 60–64 BO while Gobo moving: ON 65–69 BO while Gobo moving: OFF 70–74 Fan mode Auto 75–79 Fan mode: High 80–84 Fans On at blackout 85–89 Fans Off at blackout 90–94 Fans mode: CPC-Fans OFF 95–129 NoFeature 2 130–131 Optics Brake ON 132–133 Optics Brake OFF 134–137 NoFeature 3 138–139 Playback saving current DMX 140–141 Preset playback ON 142–143 Preset playback OFF - listen to DMX on 142-143 144–174 No function 175–179 Gobo and Effect wheel reset 180–189 Zoom/ Focus/frost reset 190–199 Iris/ Framing shutters reset 200–209 Total fixture reset 210–211 Green/Blue correction calibration 212–218 No function 219–220 Gobo indexing Maximum speed and shortcut 221–222 Gobo indexing Follow speed and direction 223–224 Gobo indexing Maximum speed and follow directi… 225–239 No function 240–240 Disabled Quiet mode 241–255 Quiet mode min to max

Mode 6 - 16-bit RGBAL + Gobo module (continued)

Ch	Function	Default	DMX values
2	L EDFrequency	30	0–4 PWM frequency from Display menu 5–9 300 Hz 10–14 600 Hz 15–19 1200 Hz 20–24 2400 Hz 25–29 High 30–255 NoFeature
3	L EDFrequency Adjust	128	
4	Color Control	40	0–29 NoFeature 30–34 Standard CTO 8000-2700K 35–39 Extended CTO 10000-1800K 40–44 Colour mixing mode: CMY 45–49 Colour mixing mode: RGB+RGBAL 50–54 Dimmer curve Square law 55–59 Dimmer curve Linear 60–64 Dimmer curve Super square law 65–79 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 No function 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
5	C RIMode	0	0–254 CRI 85 255–255 CRI 90+

Mode 6 - 16-bit RGBAL + Gobo module (continued)

Ch	Function	Default	DMX values
6	Color Wheel	0	0–0 No function (wheel slot 1) 1–2 Filter 4 (Medium Bastard Amber) (wheel slot 2) 3–4 Filter 10 (Medium Yellow) (wheel slot 3) 5–6 Filter 19 (Fire) (wheel slot 4) 7–8 Filter 26 (Bright Red) (wheel slot 5) 9–10 Filter 58 (Lavender) (wheel slot 6) 11–12 Filter 68 (Sky Blue) (wheel slot 7) 13–14 Filter 71 (Tokyo Blue) (wheel slot 8) 15–16 Filter 79 (Just Blue) (wheel slot 9) 17–18 Filter 88 (Lime Green) (wheel slot 10) 19–20 Filter 90 (Dark Yellow Green) (wheel slot 11) 21–22 Filter 100 (Spring Yellow) (wheel slot 12) 23–24 Filter 101 (Yellow) (wheel slot 13) 25–26 Filter 102 (Light Amber) (wheel slot 14) 27–28 Filter 103 (Straw) (wheel slot 15) 29–30 Filter 104 (Deep Amber) (wheel slot 16) 31–32 Filter 105 (Orange) (wheel slot 17) 33–34 Filter 106 (Primary Red) (wheel slot 18) 35–36 Filter 111 (Dark Pink) (wheel slot 19) 37–38 Filter 115 (Peacock Blue) (wheel slot 20) 39–40 Filter 116 (Medium Blue - Green) (wheel slot 21) 41–42 Filter 117 (Steel Blue) (wheel slot 22) 43–44 Filter 118 (Light Blue) (wheel slot 23) 45–46 Filter 119 (Dark Blue) (wheel slot 24) 47–48 Filter 120 (Deep Blue) (wheel slot 25) 49–50 Filter 121 (Filter Green) (wheel slot 26) 51–52 Filter 128 (Bright Pink) (wheel slot 27) 53–54 Filter 131 (Marine Blue) (wheel slot 28) 55–56 Filter 132 (Medium Blue) (wheel slot 29) 57–58 Filter 134 (Golden Amber) (wheel slot 30) 59–60 Filter 135 (Deep Golden Amber) (wheel slot 31) 61–62 Filter 136 (Pale Lavender) (wheel slot 32) 63–64 Filter 137 (Special Lavender) (wheel slot 33) 65–66 Filter 138 (Pale Green) (wheel slot 34) 67–68 Filter 139 (Primary Green) (wheel slot 35) 69–70 Filter 141 (Bright Blue) (wheel slot 36) 71–72 Filter 147 (Apricot) (wheel slot 37) 73–74 Filter 148 (Bright Rose) (wheel slot 38) 75–76 Filter 152 (Pale Gold) (wheel slot 39) 77–78 Filter 154 (Pale Rose) (wheel slot 40) 79–80 Filter 157 (Pink) (wheel slot 41) 81–82 Filter 158 (Deep Orange) (wheel slot 42) 83–84 Filter 162 (Bastard Amber) (wheel slot 43) 85–86 Filter 164 (Flame Red) (wheel slot 44) 87–88 Filter 165 (Daylight Blue) (wheel slot 45) 89–90 Filter 169 (Lilac Tint) (wheel slot 46) 91–92 Filter 170 (Deep Lavender) (wheel slot 47) 93–94 Filter 172 (Lagoon Blue) (wheel slot 48) 95–96 Filter 179 (Chrome Orange) (wheel slot 49) 97–98 Filter 180 (Dark Lavender) (wheel slot 50) 99–100 Filter 181 (Congo Blue) (wheel slot 51) 101–102 Filter 197 (Alice Blue) (wheel slot 52) 103–104 Filter 201 (Full CT Blue) (wheel slot 53) 105–106 Filter 202 (Half CT Blue) (wheel slot 54) 107–108 Filter 203 (Quarter CT Blue) (wheel slot 55) 109–110 Filter 204 (Full CT Orange) (wheel slot 56) 111–112 Filter 205 (Half CT Orange) (wheel slot 57) 113–114 Filter 206 (Quarter CT Orange) (wheel slot 58) 115–116 Filter 247 (Filter Minus Green) (wheel slot 59) 117–118 Filter 248 (Half Minus Green) (wheel slot 60) 119–120 Filter 281 (Three Quarter CT Blue) (wheel slot 61) 121–122 Filter 285 (Three Quarter CT Orange) (wheel slot 62) 123–124 Filter 352 (Glacier Blue) (wheel slot 63) 125–126 Filter 353 (Lighter Blue) (wheel slot 64)

Mode 6 - 16-bit RGBAL + Gobo module (continued)

Ch	Function	Default	DMX values
7	Red	255	
8	Red Fine	255	Fine byte of Red
9	Green	255	
10	Green Fine	255	Fine byte of Green
11	Blue	255	
12	Blue Fine	255	Fine byte of Blue
13	Color Add RY	255	
14	Color Add RY Fine	255	Fine byte of Color Add RY
15	Color Add GY	255	
16	Color Add GY Fine	255	Fine byte of Color Add GY
17	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
18	Tint	128	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–255 Uncorrected white - > Plus green
19	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
20	Global MSpeed	0	0–0 Function OFF 1–255 Time from min to max (1-25sec)
21	Animation Wheel1	0	0–19 Open 20–72 Proportional indexing min (wheel slot 1) 73–126 Proportional indexing center (wheel slot 1) 127–127 Proportional indexing max (wheel slot 1) 128–169 Ramping from open to full position max (wheel slo... 170–170 Ramping from open to full position min (wheel slo... 171–212 Ramping from open to half position max (wheel sl... 213–213 Ramping from open to half position min (wheel sl... 214–254 Ramp from half position to full position max (whe... 255–255 Ramp from half position to full position min (whee...
22	Animation Wheel1Pos	128	0–0 No rotation 1–124 Fast to slow - Fast 125–127 Fast to slow - Slow 128–128 No rotation middle 129–232 Slow to fast - Slow 233–255 Slow to fast - Fast

Mode 6 - 16-bit RGBAL + Gobo module (continued)

Ch	Function	Default	DMX values
23	Animation Wheel1Select Effects	0	0–7 No animation 8–9 Macro 1 (Focus=94) 10–11 Macro 2 (Focus=84) 12–13 Macro 3 (Focus=87) 14–15 Macro 4 (Focus=69) 16–17 Macro 5 (Focus=82) 18–19 Macro 6 (Focus=82) 20–21 Macro 7 (Focus=72) 22–23 Macro 8 (Focus=86) 24–25 Macro 9 (Focus=78) 26–27 Macro 10 (Focus=102) 28–255 NoFeature
24	Gobo	0	0–8 Open/Hole (wheel slot 1) 9–17 Gobo 1 (wheel slot 2) 18–26 Gobo 2 (wheel slot 3) 27–35 Gobo 3 (wheel slot 4) 36–44 Gobo 4 (wheel slot 5) 45–53 Gobo 5 (wheel slot 6) 54–62 Gobo 6 (wheel slot 7) 63–71 Gobo 7 (wheel slot 8) 72–80 Gobo 8 (wheel slot 9) 81–91 Gobo 9 (wheel slot 10) 92–103 Gobo 1 - Shaking (wheel slot 2) 104–115 Gobo 2 - Shaking (wheel slot 3) 116–127 Gobo 3 - Shaking (wheel slot 4) 128–139 Gobo 4 - Shaking (wheel slot 5) 140–151 Gobo 5 - Shaking (wheel slot 6) 152–163 Gobo 6 - Shaking (wheel slot 7) 164–175 Gobo 7 - Shaking (wheel slot 8) 176–187 Gobo 8 - Shaking (wheel slot 9) 188–199 Gobo 9 - Shaking (wheel slot 10) 200–201 Open/ hole (wheel slot 1) 202–220 Fast to slow - Fast 221–222 Fast to slow - Slow 223–242 Slow to fast - Slow 243–243 Slow to fast - Fast 244–249 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow

Mode 6 - 16-bit RGBAL + Gobo module (continued)

Ch	Function	Default	DMX values
25	Gobo 2	0	0–3 Open/hole (wheel slot 1) 4–7 Gobo 1 (wheel slot 2) 8–11 Gobo 2 (wheel slot 3) 12–15 Gobo 3 (wheel slot 4) 16–19 Gobo 4 (wheel slot 5) 20–23 Gobo 5 (wheel slot 6) 24–27 Gobo 6 (wheel slot 7) 28–31 Gobo 7 (wheel slot 8) 32–35 Gobo 1 - Rotation (wheel slot 2) 36–39 Gobo 2 - Rotation (wheel slot 3) 40–43 Gobo 3 - Rotation (wheel slot 4) 44–47 Gobo 4 - Rotation (wheel slot 5) 48–51 Gobo 5 - Rotation (wheel slot 6) 52–55 Gobo 6 - Rotation (wheel slot 7) 56–59 Gobo 7 - Rotation (wheel slot 8) 60–67 Open Prop Index (wheel slot 1) 68–75 G01 Prop Index (wheel slot 2) 76–83 G02 Prop Index (wheel slot 3) 84–91 G03 Prop Index (wheel slot 4) 92–99 G04 Prop Index (wheel slot 5) 100–107 G05 Prop Index (wheel slot 6) 108–115 G06 Prop Index (wheel slot 7) 116–123 G07 Prop Index (wheel slot 8) 124–124 Open End Prop Index (wheel slot 1) 125–132 Open Prop Rot (wheel slot 1) 133–140 G01 Prop Rot (wheel slot 2) 141–148 G02 Prop Rot (wheel slot 3) 149–156 G03 Prop Rot (wheel slot 4) 157–164 G04 Prop Rot (wheel slot 5) 165–172 G05 Prop Rot (wheel slot 6) 173–180 G06 Prop Rot (wheel slot 7) 181–188 G07 Prop Rot (wheel slot 8) 189–201 Open End Prop Rot (wheel slot 1) 202–220 Fast to slow - Fast 221–222 Fast to slow - Slow 223–242 Slow to fast - Slow 243–243 Slow to fast - Fast 244–248 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow
26	Gobo 2 Fine	0	Fine byte of Gobo 2
27	Gobo Rotation 2	128	0–0 Gobo indexing min 1–123 Fast to slow - Fast 124–127 Fast to slow - Slow 128–128 Gobo indexing center 129–231 Slow to fast - Slow 232–255 Slow to fast - Fast
28	Gobo Rotation 2 Fine	0	Fine byte of Gobo Rotation 2

Mode 6 - 16-bit RGBAL + Gobo module (continued)

Ch	Function	Default	DMX values
29	Frost1	0	0–0 Open 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 Medium Frost 0% - 100% 223–225 100% Medium frost 226–235 Pulse closing slow to fast 236–245 Pulse closing fast to slow 246–255 Ramping fast to slow
30	Zoom	127	
31	Zoom Fine	255	Fine byte of Zoom
32	Focus	128	
33	Focus Fine	128	Fine byte of Focus
34	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Strobe · Slow to fast - Slow 0.3–19.4 Hz 95–95 Strobe · Slow to fast - Fast 20 Hz 96–127 open 128–140 StrobePulseOpen · Slow to fast - Slow 0.1–0.42 Hz 141–143 StrobePulseOpen · Slow to fast - Fast 0.447–0.5 Hz 144–155 StrobePulseClose · Fast to slow - Fast 0.5–0.207 Hz 156–159 StrobePulseClose · Fast to slow - Slow 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
35	Dimmer	0	0–254 Closed 255–255 Open
36	Dimmer Fine	0	Fine byte of Dimmer

Mode 4 - 16-bit RGBAL + Framing module

39 channels

Ch	Function	Default	DMX values

Mode 4 - 16-bit RGBAL + Framing module (continued)

Ch	Function	Default	DMX values
1	Control1	0	0–5 No function 6–7 Standby ON 8–9 Standby OFF 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display On 25–29 Display Off 30–34 Focus tracking ON 35–39 Focus tracking OFF 40–44 Pressure test ON 45–49 Pressure test OFF 50–59 NoFeature 1 60–64 BO while Gobo moving: ON 65–69 BO while Gobo moving: OFF 70–74 Fan mode Auto 75–79 Fan mode: High 80–84 Fans On at blackout 85–89 Fans Off at blackout 90–94 Fans mode: CPC-Fans OFF 95–129 NoFeature 2 130–131 Optics Brake ON 132–133 Optics Brake OFF 134–137 NoFeature 3 138–139 Playback saving current DMX 140–141 Preset playback ON 142–143 Preset playback OFF - listen to DMX on 142-143 144–174 No function 175–179 Gobo and Effect wheel reset 180–189 Zoom/ Focus/frost reset 190–199 Iris/ Framing shutters reset 200–209 Total fixture reset 210–211 Green/Blue correction calibration 212–218 No function 219–220 Gobo indexing Maximum speed and shortcut 221–222 Gobo indexing Follow speed and direction 223–224 Gobo indexing Maximum speed and follow directi… 225–239 No function 240–240 Disabled Quiet mode 241–255 Quiet mode min to max
2	L EDFrequency	30	0–4 PWM frequency from Display menu 5–9 300 Hz 10–14 600 Hz 15–19 1200 Hz 20–24 2400 Hz 25–29 High 30–255 NoFeature
3	L EDFrequency Adjust	128	

Mode 4 - 16-bit RGBAL + Framing module (continued)

Ch	Function	Default	DMX values
4	Color Control	40	0–29 NoFeature 30–34 Standard CTO 8000-2700K 35–39 Extended CTO 10000-1800K 40–44 Colour mixing mode: CMY 45–49 Colour mixing mode: RGB+RGBAL 50–54 Dimmer curve Square law 55–59 Dimmer curve Linear 60–64 Dimmer curve Super square law 65–79 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 No function 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
5	C RIMode	0	0–254 CRI 85 255–255 CRI 90+

Mode 4 - 16-bit RGBAL + Framing module (continued)

Ch	Function	Default	DMX values
6	Color Wheel	0	0–0 No function (wheel slot 1) 1–2 Filter 4 (Medium Bastard Amber) (wheel slot 2) 3–4 Filter 10 (Medium Yellow) (wheel slot 3) 5–6 Filter 19 (Fire) (wheel slot 4) 7–8 Filter 26 (Bright Red) (wheel slot 5) 9–10 Filter 58 (Lavender) (wheel slot 6) 11–12 Filter 68 (Sky Blue) (wheel slot 7) 13–14 Filter 71 (Tokyo Blue) (wheel slot 8) 15–16 Filter 79 (Just Blue) (wheel slot 9) 17–18 Filter 88 (Lime Green) (wheel slot 10) 19–20 Filter 90 (Dark Yellow Green) (wheel slot 11) 21–22 Filter 100 (Spring Yellow) (wheel slot 12) 23–24 Filter 101 (Yellow) (wheel slot 13) 25–26 Filter 102 (Light Amber) (wheel slot 14) 27–28 Filter 103 (Straw) (wheel slot 15) 29–30 Filter 104 (Deep Amber) (wheel slot 16) 31–32 Filter 105 (Orange) (wheel slot 17) 33–34 Filter 106 (Primary Red) (wheel slot 18) 35–36 Filter 111 (Dark Pink) (wheel slot 19) 37–38 Filter 115 (Peacock Blue) (wheel slot 20) 39–40 Filter 116 (Medium Blue - Green) (wheel slot 21) 41–42 Filter 117 (Steel Blue) (wheel slot 22) 43–44 Filter 118 (Light Blue) (wheel slot 23) 45–46 Filter 119 (Dark Blue) (wheel slot 24) 47–48 Filter 120 (Deep Blue) (wheel slot 25) 49–50 Filter 121 (Filter Green) (wheel slot 26) 51–52 Filter 128 (Bright Pink) (wheel slot 27) 53–54 Filter 131 (Marine Blue) (wheel slot 28) 55–56 Filter 132 (Medium Blue) (wheel slot 29) 57–58 Filter 134 (Golden Amber) (wheel slot 30) 59–60 Filter 135 (Deep Golden Amber) (wheel slot 31) 61–62 Filter 136 (Pale Lavender) (wheel slot 32) 63–64 Filter 137 (Special Lavender) (wheel slot 33) 65–66 Filter 138 (Pale Green) (wheel slot 34) 67–68 Filter 139 (Primary Green) (wheel slot 35) 69–70 Filter 141 (Bright Blue) (wheel slot 36) 71–72 Filter 147 (Apricot) (wheel slot 37) 73–74 Filter 148 (Bright Rose) (wheel slot 38) 75–76 Filter 152 (Pale Gold) (wheel slot 39) 77–78 Filter 154 (Pale Rose) (wheel slot 40) 79–80 Filter 157 (Pink) (wheel slot 41) 81–82 Filter 158 (Deep Orange) (wheel slot 42) 83–84 Filter 162 (Bastard Amber) (wheel slot 43) 85–86 Filter 164 (Flame Red) (wheel slot 44) 87–88 Filter 165 (Daylight Blue) (wheel slot 45) 89–90 Filter 169 (Lilac Tint) (wheel slot 46) 91–92 Filter 170 (Deep Lavender) (wheel slot 47) 93–94 Filter 172 (Lagoon Blue) (wheel slot 48) 95–96 Filter 179 (Chrome Orange) (wheel slot 49) 97–98 Filter 180 (Dark Lavender) (wheel slot 50) 99–100 Filter 181 (Congo Blue) (wheel slot 51) 101–102 Filter 197 (Alice Blue) (wheel slot 52) 103–104 Filter 201 (Full CT Blue) (wheel slot 53) 105–106 Filter 202 (Half CT Blue) (wheel slot 54) 107–108 Filter 203 (Quarter CT Blue) (wheel slot 55) 109–110 Filter 204 (Full CT Orange) (wheel slot 56) 111–112 Filter 205 (Half CT Orange) (wheel slot 57) 113–114 Filter 206 (Quarter CT Orange) (wheel slot 58) 115–116 Filter 247 (Filter Minus Green) (wheel slot 59) 117–118 Filter 248 (Half Minus Green) (wheel slot 60) 119–120 Filter 281 (Three Quarter CT Blue) (wheel slot 61) 121–122 Filter 285 (Three Quarter CT Orange) (wheel slot 62) 123–124 Filter 352 (Glacier Blue) (wheel slot 63) 125–126 Filter 353 (Lighter Blue) (wheel slot 64)

Mode 4 - 16-bit RGBAL + Framing module (continued)

Ch	Function	Default	DMX values
7	Red	255	
8	Red Fine	255	Fine byte of Red
9	Green	255	
10	Green Fine	255	Fine byte of Green
11	Blue	255	
12	Blue Fine	255	Fine byte of Blue
13	Color Add RY	255	
14	Color Add RY Fine	255	Fine byte of Color Add RY
15	Color Add GY	255	
16	Color Add GY Fine	255	Fine byte of Color Add GY
17	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
18	Tint	128	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–255 Uncorrected white - > Plus green
19	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
20	Global MSpeed	0	0–0 Function OFF 1–255 Time from min to max (1-25sec)
21	Frost1	0	0–0 Open 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 Medium Frost 0% - 100% 223–225 100% Medium frost 226–235 Pulse closing slow to fast 236–245 Pulse closing fast to slow 246–255 Ramping fast to slow

Mode 4 - 16-bit RGBAL + Framing module (continued)

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

Mode 4 - 16-bit RGBAL + Framing module (continued)

Ch	Function	Default	DMX values
37	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Strobe · Slow to fast - Slow 0.3–19.4 Hz 95–95 Strobe · Slow to fast - Fast 20 Hz 96–127 open 128–140 StrobePulseOpen · Slow to fast - Slow 0.1–0.42 Hz 141–143 StrobePulseOpen · Slow to fast - Fast 0.447–0.5 Hz 144–155 StrobePulseClose · Fast to slow - Fast 0.5–0.207 Hz 156–159 StrobePulseClose · Fast to slow - Slow 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

Mode 7 - 16-bit CMY + Gobo + Framing module

43 channels

Ch	Function	Default	DMX values
1	Control1	0	0–5 No function 6–7 Standby ON 8–9 Standby OFF 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display On 25–29 Display Off 30–34 Focus tracking ON 35–39 Focus tracking OFF 40–44 Pressure test ON 45–49 Pressure test OFF 50–59 NoFeature 1 60–64 BO while Gobo moving: ON 65–69 BO while Gobo moving: OFF 70–74 Fan mode Auto 75–79 Fan mode: High 80–84 Fans On at blackout 85–89 Fans Off at blackout 90–94 Fans mode: CPC-Fans OFF 95–129 NoFeature 2 130–131 Optics Brake ON 132–133 Optics Brake OFF 134–137 NoFeature 3 138–139 Playback saving current DMX 140–141 Preset playback ON 142–143 Preset playback OFF - listen to DMX on 142-143 144–174 No function 175–179 Gobo and Effect wheel reset 180–189 Zoom/ Focus/frost reset 190–199 Iris/ Framing shutters reset 200–209 Total fixture reset 210–211 Green/Blue correction calibration 212–218 No function 219–220 Gobo indexing Maximum speed and shortcut 221–222 Gobo indexing Follow speed and direction 223–224 Gobo indexing Maximum speed and follow directi… 225–239 No function 240–240 Disabled Quiet mode 241–255 Quiet mode min to max

Mode 7 - 16-bit CMY + Gobo + Framing module (continued)

Ch	Function	Default	DMX values
2	L EDFrequency	30	0–4 PWM frequency from Display menu 5–9 300 Hz 10–14 600 Hz 15–19 1200 Hz 20–24 2400 Hz 25–29 High 30–255 NoFeature
3	L EDFrequency Adjust	128	
4	Color Control	40	0–29 NoFeature 30–34 Standard CTO 8000-2700K 35–39 Extended CTO 10000-1800K 40–44 Colour mixing mode: CMY 45–49 Colour mixing mode: RGB+RGBAL 50–54 Dimmer curve Square law 55–59 Dimmer curve Linear 60–64 Dimmer curve Super square law 65–79 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 No function 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
5	C RIMode	0	0–254 CRI 85 255–255 CRI 90+

Mode 7 - 16-bit CMY + Gobo + Framing module (continued)

Ch	Function	Default	DMX values
6	Color Wheel	0	0–0 No function (wheel slot 1) 1–2 Filter 4 (Medium Bastard Amber) (wheel slot 2) 3–4 Filter 10 (Medium Yellow) (wheel slot 3) 5–6 Filter 19 (Fire) (wheel slot 4) 7–8 Filter 26 (Bright Red) (wheel slot 5) 9–10 Filter 58 (Lavender) (wheel slot 6) 11–12 Filter 68 (Sky Blue) (wheel slot 7) 13–14 Filter 71 (Tokyo Blue) (wheel slot 8) 15–16 Filter 79 (Just Blue) (wheel slot 9) 17–18 Filter 88 (Lime Green) (wheel slot 10) 19–20 Filter 90 (Dark Yellow Green) (wheel slot 11) 21–22 Filter 100 (Spring Yellow) (wheel slot 12) 23–24 Filter 101 (Yellow) (wheel slot 13) 25–26 Filter 102 (Light Amber) (wheel slot 14) 27–28 Filter 103 (Straw) (wheel slot 15) 29–30 Filter 104 (Deep Amber) (wheel slot 16) 31–32 Filter 105 (Orange) (wheel slot 17) 33–34 Filter 106 (Primary Red) (wheel slot 18) 35–36 Filter 111 (Dark Pink) (wheel slot 19) 37–38 Filter 115 (Peacock Blue) (wheel slot 20) 39–40 Filter 116 (Medium Blue - Green) (wheel slot 21) 41–42 Filter 117 (Steel Blue) (wheel slot 22) 43–44 Filter 118 (Light Blue) (wheel slot 23) 45–46 Filter 119 (Dark Blue) (wheel slot 24) 47–48 Filter 120 (Deep Blue) (wheel slot 25) 49–50 Filter 121 (Filter Green) (wheel slot 26) 51–52 Filter 128 (Bright Pink) (wheel slot 27) 53–54 Filter 131 (Marine Blue) (wheel slot 28) 55–56 Filter 132 (Medium Blue) (wheel slot 29) 57–58 Filter 134 (Golden Amber) (wheel slot 30) 59–60 Filter 135 (Deep Golden Amber) (wheel slot 31) 61–62 Filter 136 (Pale Lavender) (wheel slot 32) 63–64 Filter 137 (Special Lavender) (wheel slot 33) 65–66 Filter 138 (Pale Green) (wheel slot 34) 67–68 Filter 139 (Primary Green) (wheel slot 35) 69–70 Filter 141 (Bright Blue) (wheel slot 36) 71–72 Filter 147 (Apricot) (wheel slot 37) 73–74 Filter 148 (Bright Rose) (wheel slot 38) 75–76 Filter 152 (Pale Gold) (wheel slot 39) 77–78 Filter 154 (Pale Rose) (wheel slot 40) 79–80 Filter 157 (Pink) (wheel slot 41) 81–82 Filter 158 (Deep Orange) (wheel slot 42) 83–84 Filter 162 (Bastard Amber) (wheel slot 43) 85–86 Filter 164 (Flame Red) (wheel slot 44) 87–88 Filter 165 (Daylight Blue) (wheel slot 45) 89–90 Filter 169 (Lilac Tint) (wheel slot 46) 91–92 Filter 170 (Deep Lavender) (wheel slot 47) 93–94 Filter 172 (Lagoon Blue) (wheel slot 48) 95–96 Filter 179 (Chrome Orange) (wheel slot 49) 97–98 Filter 180 (Dark Lavender) (wheel slot 50) 99–100 Filter 181 (Congo Blue) (wheel slot 51) 101–102 Filter 197 (Alice Blue) (wheel slot 52) 103–104 Filter 201 (Full CT Blue) (wheel slot 53) 105–106 Filter 202 (Half CT Blue) (wheel slot 54) 107–108 Filter 203 (Quarter CT Blue) (wheel slot 55) 109–110 Filter 204 (Full CT Orange) (wheel slot 56) 111–112 Filter 205 (Half CT Orange) (wheel slot 57) 113–114 Filter 206 (Quarter CT Orange) (wheel slot 58) 115–116 Filter 247 (Filter Minus Green) (wheel slot 59) 117–118 Filter 248 (Half Minus Green) (wheel slot 60) 119–120 Filter 281 (Three Quarter CT Blue) (wheel slot 61) 121–122 Filter 285 (Three Quarter CT Orange) (wheel slot 62) 123–124 Filter 352 (Glacier Blue) (wheel slot 63) 125–126 Filter 353 (Lighter Blue) (wheel slot 64)

Mode 7 - 16-bit CMY + Gobo + Framing module (continued)

Ch	Function	Default	DMX values
7	Cyan	0	
8	Cyan Fine	0	Fine byte of Cyan
9	Magenta	0	
10	Magenta Fine	0	Fine byte of Magenta
11	Yellow	0	
12	Yellow Fine	0	Fine byte of Yellow
13	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
14	Tint	128	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–255 Uncorrected white - > Plus green
15	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
16	Global MSpeed	0	0–0 Function OFF 1–255 Time from min to max (1-25sec)
17	Animation Wheel1	0	0–19 Open 20–72 Proportional indexing min (wheel slot 1) 73–126 Proportional indexing center (wheel slot 1) 127–127 Proportional indexing max (wheel slot 1) 128–169 Ramping from open to full position max (wheel slo... 170–170 Ramping from open to full position min (wheel slo... 171–212 Ramping from open to half position max (wheel sl... 213–213 Ramping from open to half position min (wheel sl... 214–254 Ramp from half position to full position max (whe... 255–255 Ramp from half position to full position min (whee...
18	Animation Wheel1Pos	128	0–0 No rotation 1–124 Fast to slow - Fast 125–127 Fast to slow - Slow 128–128 No rotation middle 129–232 Slow to fast - Slow 233–255 Slow to fast - Fast

Mode 7 - 16-bit CMY + Gobo + Framing module (continued)

Ch	Function	Default	DMX values
19	Animation Wheel1Select Effects	0	0–7 No animation 8–9 Macro 1 (Focus=94) 10–11 Macro 2 (Focus=84) 12–13 Macro 3 (Focus=87) 14–15 Macro 4 (Focus=69) 16–17 Macro 5 (Focus=82) 18–19 Macro 6 (Focus=82) 20–21 Macro 7 (Focus=72) 22–23 Macro 8 (Focus=86) 24–25 Macro 9 (Focus=78) 26–27 Macro 10 (Focus=102) 28–255 NoFeature
20	Gobo	0	0–8 Open/Hole (wheel slot 1) 9–17 Gobo 1 (wheel slot 2) 18–26 Gobo 2 (wheel slot 3) 27–35 Gobo 3 (wheel slot 4) 36–44 Gobo 4 (wheel slot 5) 45–53 Gobo 5 (wheel slot 6) 54–62 Gobo 6 (wheel slot 7) 63–71 Gobo 7 (wheel slot 8) 72–80 Gobo 8 (wheel slot 9) 81–91 Gobo 9 (wheel slot 10) 92–103 Gobo 1 - Shaking (wheel slot 2) 104–115 Gobo 2 - Shaking (wheel slot 3) 116–127 Gobo 3 - Shaking (wheel slot 4) 128–139 Gobo 4 - Shaking (wheel slot 5) 140–151 Gobo 5 - Shaking (wheel slot 6) 152–163 Gobo 6 - Shaking (wheel slot 7) 164–175 Gobo 7 - Shaking (wheel slot 8) 176–187 Gobo 8 - Shaking (wheel slot 9) 188–199 Gobo 9 - Shaking (wheel slot 10) 200–201 Open/ hole (wheel slot 1) 202–220 Fast to slow - Fast 221–222 Fast to slow - Slow 223–242 Slow to fast - Slow 243–243 Slow to fast - Fast 244–249 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow

Mode 7 - 16-bit CMY + Gobo + Framing module (continued)

Ch	Function	Default	DMX values
21	Gobo 2	0	0–3 Open/hole (wheel slot 1) 4–7 Gobo 1 (wheel slot 2) 8–11 Gobo 2 (wheel slot 3) 12–15 Gobo 3 (wheel slot 4) 16–19 Gobo 4 (wheel slot 5) 20–23 Gobo 5 (wheel slot 6) 24–27 Gobo 6 (wheel slot 7) 28–31 Gobo 7 (wheel slot 8) 32–35 Gobo 1 - Rotation (wheel slot 2) 36–39 Gobo 2 - Rotation (wheel slot 3) 40–43 Gobo 3 - Rotation (wheel slot 4) 44–47 Gobo 4 - Rotation (wheel slot 5) 48–51 Gobo 5 - Rotation (wheel slot 6) 52–55 Gobo 6 - Rotation (wheel slot 7) 56–59 Gobo 7 - Rotation (wheel slot 8) 60–67 Open Prop Index (wheel slot 1) 68–75 G01 Prop Index (wheel slot 2) 76–83 G02 Prop Index (wheel slot 3) 84–91 G03 Prop Index (wheel slot 4) 92–99 G04 Prop Index (wheel slot 5) 100–107 G05 Prop Index (wheel slot 6) 108–115 G06 Prop Index (wheel slot 7) 116–123 G07 Prop Index (wheel slot 8) 124–124 Open End Prop Index (wheel slot 1) 125–132 Open Prop Rot (wheel slot 1) 133–140 G01 Prop Rot (wheel slot 2) 141–148 G02 Prop Rot (wheel slot 3) 149–156 G03 Prop Rot (wheel slot 4) 157–164 G04 Prop Rot (wheel slot 5) 165–172 G05 Prop Rot (wheel slot 6) 173–180 G06 Prop Rot (wheel slot 7) 181–188 G07 Prop Rot (wheel slot 8) 189–201 Open End Prop Rot (wheel slot 1) 202–220 Fast to slow - Fast 221–222 Fast to slow - Slow 223–242 Slow to fast - Slow 243–243 Slow to fast - Fast 244–248 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow
22	Gobo 2 Fine	0	Fine byte of Gobo 2
23	Gobo Rotation 2	128	0–0 Gobo indexing min 1–123 Fast to slow - Fast 124–127 Fast to slow - Slow 128–128 Gobo indexing center 129–231 Slow to fast - Slow 232–255 Slow to fast - Fast
24	Gobo Rotation 2 Fine	0	Fine byte of Gobo Rotation 2

Mode 7 - 16-bit CMY + Gobo + Framing module (continued)

Ch	Function	Default	DMX values
25	Frost1	0	0–0 Open 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 Medium Frost 0% - 100% 223–225 100% Medium frost 226–235 Pulse closing slow to fast 236–245 Pulse closing fast to slow 246–255 Ramping fast to slow
26	Iris	0	0–0 Open 1–179 Max -> Min diameter 180–191 Closed 192–194 Slow to fast 1/13 195–196 Slow to fast 2/13 197–198 Slow to fast 3/13 199–200 Slow to fast 4/13 201–202 Slow to fast 5/13 203–204 Slow to fast 6/13 205–206 Slow to fast 7/13 207–208 Slow to fast 8/13 209–210 Slow to fast 9/13 211–212 Slow to fast 10/13 213–214 Slow to fast 11/13 215–216 Slow t ofast 12/13 217–219 Slow to fast 13/13 220–221 Fast to slow 1/13 222–223 Fast to slow 2/13 224–225 Fast to slow 3/13 226–227 Fast to slow 4/13 228–229 Fast to slow 5/13 230–231 Fast to slow 6/13 232–233 Fast to slow 7/13 234–235 Fast to slow 8/13 236–237 Fast to slow 9/13 238–239 Fast to slow 10/13 240–241 Fast to slow 11/13 242–243 Fast to slow 12/13 244–247 Fast to slow 13/13 248–249 Random pulse opening fast 250–251 Random pulse opening slow 252–253 Random pulse closing fast 254–255 Random pulse closing slow
27	Iris Fine	0	Fine byte of Iris
28	Zoom	127	
29	Zoom Fine	255	Fine byte of Zoom
30	Focus	128	
31	Focus Fine	128	Fine byte of Focus
32	Shaper Rot	128	0–127 min 128–254 mid 255–255 max
33	Blade3A	0	

Mode 7 - 16-bit CMY + Gobo + Framing module (continued)

Ch	Function	Default	DMX values
34	Blade3Rot	128	
35	Blade2A	0	
36	Blade2Rot	128	
37	Blade1A	0	
38	Blade1Rot	128	
39	Blade4A	0	
40	Blade4Rot	128	
41	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Strobe · Slow to fast - Slow 0.3–19.4 Hz 95–95 Strobe · Slow to fast - Fast 20 Hz 96–127 open 128–140 StrobePulseOpen · Slow to fast - Slow 0.1–0.42 Hz 141–143 StrobePulseOpen · Slow to fast - Fast 0.447–0.5 Hz 144–155 StrobePulseClose · Fast to slow - Fast 0.5–0.207 Hz 156–159 StrobePulseClose · Fast to slow - Slow 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
42	Dimmer	0	0–254 Closed 255–255 Open
43	Dimmer Fine	0	Fine byte of Dimmer

Mode 8- 16-bit RGBAL Gobo+ Framing

47 channels

Ch	Function	Default	DMX values

Mode 8- 16-bit RGBAL Gobo+ Framing (continued)

Ch	Function	Default	DMX values
1	Control1	0	0–5 No function 6–7 Standby ON 8–9 Standby OFF 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display On 25–29 Display Off 30–34 Focus tracking ON 35–39 Focus tracking OFF 40–44 Pressure test ON 45–49 Pressure test OFF 50–59 NoFeature 1 60–64 BO while Gobo moving: ON 65–69 BO while Gobo moving: OFF 70–74 Fan mode Auto 75–79 Fan mode: High 80–84 Fans On at blackout 85–89 Fans Off at blackout 90–94 Fans mode: CPC-Fans OFF 95–129 NoFeature 2 130–131 Optics Brake ON 132–133 Optics Brake OFF 134–137 NoFeature 3 138–139 Playback saving current DMX 140–141 Preset playback ON 142–143 Preset playback OFF - listen to DMX on 142-143 144–174 No function 175–179 Gobo and Effect wheel reset 180–189 Zoom/ Focus/frost reset 190–199 Iris/ Framing shutters reset 200–209 Total fixture reset 210–211 Green/Blue correction calibration 212–218 No function 219–220 Gobo indexing Maximum speed and shortcut 221–222 Gobo indexing Follow speed and direction 223–224 Gobo indexing Maximum speed and follow directi… 225–239 No function 240–240 Disabled Quiet mode 241–255 Quiet mode min to max
2	L EDFrequency	30	0–4 PWM frequency from Display menu 5–9 300 Hz 10–14 600 Hz 15–19 1200 Hz 20–24 2400 Hz 25–29 High 30–255 NoFeature
3	L EDFrequency Adjust	128	

Mode 8- 16-bit RGBAL Gobo+ Framing (continued)

Ch	Function	Default	DMX values
4	Color Control	40	0–29 NoFeature 30–34 Standard CTO 8000-2700K 35–39 Extended CTO 10000-1800K 40–44 Colour mixing mode: CMY 45–49 Colour mixing mode: RGB+RGBAL 50–54 Dimmer curve Square law 55–59 Dimmer curve Linear 60–64 Dimmer curve Super square law 65–79 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 No function 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
5	C RIMode	0	0–254 CRI 85 255–255 CRI 90+

Mode 8- 16-bit RGBAL Gobo+ Framing (continued)

Ch	Function	Default	DMX values
6	Color Wheel	0	0–0 No function (wheel slot 1) 1–2 Filter 4 (Medium Bastard Amber) (wheel slot 2) 3–4 Filter 10 (Medium Yellow) (wheel slot 3) 5–6 Filter 19 (Fire) (wheel slot 4) 7–8 Filter 26 (Bright Red) (wheel slot 5) 9–10 Filter 58 (Lavender) (wheel slot 6) 11–12 Filter 68 (Sky Blue) (wheel slot 7) 13–14 Filter 71 (Tokyo Blue) (wheel slot 8) 15–16 Filter 79 (Just Blue) (wheel slot 9) 17–18 Filter 88 (Lime Green) (wheel slot 10) 19–20 Filter 90 (Dark Yellow Green) (wheel slot 11) 21–22 Filter 100 (Spring Yellow) (wheel slot 12) 23–24 Filter 101 (Yellow) (wheel slot 13) 25–26 Filter 102 (Light Amber) (wheel slot 14) 27–28 Filter 103 (Straw) (wheel slot 15) 29–30 Filter 104 (Deep Amber) (wheel slot 16) 31–32 Filter 105 (Orange) (wheel slot 17) 33–34 Filter 106 (Primary Red) (wheel slot 18) 35–36 Filter 111 (Dark Pink) (wheel slot 19) 37–38 Filter 115 (Peacock Blue) (wheel slot 20) 39–40 Filter 116 (Medium Blue - Green) (wheel slot 21) 41–42 Filter 117 (Steel Blue) (wheel slot 22) 43–44 Filter 118 (Light Blue) (wheel slot 23) 45–46 Filter 119 (Dark Blue) (wheel slot 24) 47–48 Filter 120 (Deep Blue) (wheel slot 25) 49–50 Filter 121 (Filter Green) (wheel slot 26) 51–52 Filter 128 (Bright Pink) (wheel slot 27) 53–54 Filter 131 (Marine Blue) (wheel slot 28) 55–56 Filter 132 (Medium Blue) (wheel slot 29) 57–58 Filter 134 (Golden Amber) (wheel slot 30) 59–60 Filter 135 (Deep Golden Amber) (wheel slot 31) 61–62 Filter 136 (Pale Lavender) (wheel slot 32) 63–64 Filter 137 (Special Lavender) (wheel slot 33) 65–66 Filter 138 (Pale Green) (wheel slot 34) 67–68 Filter 139 (Primary Green) (wheel slot 35) 69–70 Filter 141 (Bright Blue) (wheel slot 36) 71–72 Filter 147 (Apricot) (wheel slot 37) 73–74 Filter 148 (Bright Rose) (wheel slot 38) 75–76 Filter 152 (Pale Gold) (wheel slot 39) 77–78 Filter 154 (Pale Rose) (wheel slot 40) 79–80 Filter 157 (Pink) (wheel slot 41) 81–82 Filter 158 (Deep Orange) (wheel slot 42) 83–84 Filter 162 (Bastard Amber) (wheel slot 43) 85–86 Filter 164 (Flame Red) (wheel slot 44) 87–88 Filter 165 (Daylight Blue) (wheel slot 45) 89–90 Filter 169 (Lilac Tint) (wheel slot 46) 91–92 Filter 170 (Deep Lavender) (wheel slot 47) 93–94 Filter 172 (Lagoon Blue) (wheel slot 48) 95–96 Filter 179 (Chrome Orange) (wheel slot 49) 97–98 Filter 180 (Dark Lavender) (wheel slot 50) 99–100 Filter 181 (Congo Blue) (wheel slot 51) 101–102 Filter 197 (Alice Blue) (wheel slot 52) 103–104 Filter 201 (Full CT Blue) (wheel slot 53) 105–106 Filter 202 (Half CT Blue) (wheel slot 54) 107–108 Filter 203 (Quarter CT Blue) (wheel slot 55) 109–110 Filter 204 (Full CT Orange) (wheel slot 56) 111–112 Filter 205 (Half CT Orange) (wheel slot 57) 113–114 Filter 206 (Quarter CT Orange) (wheel slot 58) 115–116 Filter 247 (Filter Minus Green) (wheel slot 59) 117–118 Filter 248 (Half Minus Green) (wheel slot 60) 119–120 Filter 281 (Three Quarter CT Blue) (wheel slot 61) 121–122 Filter 285 (Three Quarter CT Orange) (wheel slot 62) 123–124 Filter 352 (Glacier Blue) (wheel slot 63) 125–126 Filter 353 (Lighter Blue) (wheel slot 64)

Mode 8- 16-bit RGBAL Gobo+ Framing (continued)

Ch	Function	Default	DMX values
7	Red	255	
8	Red Fine	255	Fine byte of Red
9	Green	255	
10	Green Fine	255	Fine byte of Green
11	Blue	255	
12	Blue Fine	255	Fine byte of Blue
13	Color Add RY	255	
14	Color Add RY Fine	255	Fine byte of Color Add RY
15	Color Add GY	255	
16	Color Add GY Fine	255	Fine byte of Color Add GY
17	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
18	Tint	128	0–0 Uncorrected white 1–127 Minus green - > Uncorrected white 128–128 Uncorrected white 129–255 Uncorrected white - > Plus green
19	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
20	Global MSpeed	0	0–0 Function OFF 1–255 Time from min to max (1-25sec)
21	Animation Wheel1	0	0–19 Open 20–72 Proportional indexing min (wheel slot 1) 73–126 Proportional indexing center (wheel slot 1) 127–127 Proportional indexing max (wheel slot 1) 128–169 Ramping from open to full position max (wheel slo… 170–170 Ramping from open to full position min (wheel slo… 171–212 Ramping from open to half position max (wheel sl… 213–213 Ramping from open to half position min (wheel sl… 214–254 Ramp from half position to full position max (whe… 255–255 Ramp from half position to full position min (whee…
22	Animation Wheel1Pos	128	0–0 No rotation 1–124 Fast to slow - Fast 125–127 Fast to slow - Slow 128–128 No rotation middle 129–232 Slow to fast - Slow 233–255 Slow to fast - Fast

Mode 8- 16-bit RGBAL Gobo+ Framing (continued)

Ch	Function	Default	DMX values
23	Animation Wheel1Select Effects	0	0–7 No animation 8–9 Macro 1 (Focus=94) 10–11 Macro 2 (Focus=84) 12–13 Macro 3 (Focus=87) 14–15 Macro 4 (Focus=69) 16–17 Macro 5 (Focus=82) 18–19 Macro 6 (Focus=82) 20–21 Macro 7 (Focus=72) 22–23 Macro 8 (Focus=86) 24–25 Macro 9 (Focus=78) 26–27 Macro 10 (Focus=102) 28–255 NoFeature
24	Gobo	0	0–8 Open/Hole (wheel slot 1) 9–17 Gobo 1 (wheel slot 2) 18–26 Gobo 2 (wheel slot 3) 27–35 Gobo 3 (wheel slot 4) 36–44 Gobo 4 (wheel slot 5) 45–53 Gobo 5 (wheel slot 6) 54–62 Gobo 6 (wheel slot 7) 63–71 Gobo 7 (wheel slot 8) 72–80 Gobo 8 (wheel slot 9) 81–91 Gobo 9 (wheel slot 10) 92–103 Gobo 1 - Shaking (wheel slot 2) 104–115 Gobo 2 - Shaking (wheel slot 3) 116–127 Gobo 3 - Shaking (wheel slot 4) 128–139 Gobo 4 - Shaking (wheel slot 5) 140–151 Gobo 5 - Shaking (wheel slot 6) 152–163 Gobo 6 - Shaking (wheel slot 7) 164–175 Gobo 7 - Shaking (wheel slot 8) 176–187 Gobo 8 - Shaking (wheel slot 9) 188–199 Gobo 9 - Shaking (wheel slot 10) 200–201 Open/ hole (wheel slot 1) 202–220 Fast to slow - Fast 221–222 Fast to slow - Slow 223–242 Slow to fast - Slow 243–243 Slow to fast - Fast 244–249 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow

Mode 8- 16-bit RGBAL Gobo+ Framing (continued)

Ch	Function	Default	DMX values
25	Gobo 2	0	0–3 Open/hole (wheel slot 1) 4–7 Gobo 1 (wheel slot 2) 8–11 Gobo 2 (wheel slot 3) 12–15 Gobo 3 (wheel slot 4) 16–19 Gobo 4 (wheel slot 5) 20–23 Gobo 5 (wheel slot 6) 24–27 Gobo 6 (wheel slot 7) 28–31 Gobo 7 (wheel slot 8) 32–35 Gobo 1 - Rotation (wheel slot 2) 36–39 Gobo 2 - Rotation (wheel slot 3) 40–43 Gobo 3 - Rotation (wheel slot 4) 44–47 Gobo 4 - Rotation (wheel slot 5) 48–51 Gobo 5 - Rotation (wheel slot 6) 52–55 Gobo 6 - Rotation (wheel slot 7) 56–59 Gobo 7 - Rotation (wheel slot 8) 60–67 Open Prop Index (wheel slot 1) 68–75 G01 Prop Index (wheel slot 2) 76–83 G02 Prop Index (wheel slot 3) 84–91 G03 Prop Index (wheel slot 4) 92–99 G04 Prop Index (wheel slot 5) 100–107 G05 Prop Index (wheel slot 6) 108–115 G06 Prop Index (wheel slot 7) 116–123 G07 Prop Index (wheel slot 8) 124–124 Open End Prop Index (wheel slot 1) 125–132 Open Prop Rot (wheel slot 1) 133–140 G01 Prop Rot (wheel slot 2) 141–148 G02 Prop Rot (wheel slot 3) 149–156 G03 Prop Rot (wheel slot 4) 157–164 G04 Prop Rot (wheel slot 5) 165–172 G05 Prop Rot (wheel slot 6) 173–180 G06 Prop Rot (wheel slot 7) 181–188 G07 Prop Rot (wheel slot 8) 189–201 Open End Prop Rot (wheel slot 1) 202–220 Fast to slow - Fast 221–222 Fast to slow - Slow 223–242 Slow to fast - Slow 243–243 Slow to fast - Fast 244–248 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow
26	Gobo 2 Fine	0	Fine byte of Gobo 2
27	Gobo Rotation 2	128	0–0 Gobo indexing min 1–123 Fast to slow - Fast 124–127 Fast to slow - Slow 128–128 Gobo indexing center 129–231 Slow to fast - Slow 232–255 Slow to fast - Fast
28	Gobo Rotation 2 Fine	0	Fine byte of Gobo Rotation 2

Mode 8- 16-bit RGBAL Gobo+ Framing (continued)

Ch	Function	Default	DMX values
29	Frost1	0	0–0 Open 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 Medium Frost 0% - 100% 223–225 100% Medium frost 226–235 Pulse closing slow to fast 236–245 Pulse closing fast to slow 246–255 Ramping fast to slow
30	Iris	0	0–0 Open 1–179 Max -> Min diameter 180–191 Closed 192–194 Slow to fast 1/13 195–196 Slow to fast 2/13 197–198 Slow to fast 3/13 199–200 Slow to fast 4/13 201–202 Slow to fast 5/13 203–204 Slow to fast 6/13 205–206 Slow to fast 7/13 207–208 Slow to fast 8/13 209–210 Slow to fast 9/13 211–212 Slow to fast 10/13 213–214 Slow to fast 11/13 215–216 Slow t ofast 12/13 217–219 Slow to fast 13/13 220–221 Fast to slow 1/13 222–223 Fast to slow 2/13 224–225 Fast to slow 3/13 226–227 Fast to slow 4/13 228–229 Fast to slow 5/13 230–231 Fast to slow 6/13 232–233 Fast to slow 7/13 234–235 Fast to slow 8/13 236–237 Fast to slow 9/13 238–239 Fast to slow 10/13 240–241 Fast to slow 11/13 242–243 Fast to slow 12/13 244–247 Fast to slow 13/13 248–249 Random pulse opening fast 250–251 Random pulse opening slow 252–253 Random pulse closing fast 254–255 Random pulse closing slow
31	Iris Fine	0	Fine byte of Iris
32	Zoom	127	
33	Zoom Fine	255	Fine byte of Zoom
34	Focus	128	
35	Focus Fine	128	Fine byte of Focus
36	Shaper Rot	128	0–127 min 128–254 mid 255–255 max
37	Blade3A	0	

Mode 8- 16-bit RGBAL Gobo+ Framing (continued)

Ch	Function	Default	DMX values
38	Blade3Rot	128	
39	Blade2A	0	
40	Blade2Rot	128	
41	Blade1A	0	
42	Blade1Rot	128	
43	Blade4A	0	
44	Blade4Rot	128	
45	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Strobe · Slow to fast - Slow 0.3–19.4 Hz 95–95 Strobe · Slow to fast - Fast 20 Hz 96–127 open 128–140 StrobePulseOpen · Slow to fast - Slow 0.1–0.42 Hz 141–143 StrobePulseOpen · Slow to fast - Fast 0.447–0.5 Hz 144–155 StrobePulseClose · Fast to slow - Fast 0.5–0.207 Hz 156–159 StrobePulseClose · Fast to slow - Slow 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
46	Dimmer	0	0–254 Closed 255–255 Open
47	Dimmer Fine	0	Fine byte of Dimmer