Robe Lighting

Robin DL7S Profile



Manufacturer	**Robe Lighting**
Type	**Profile spot**
DMX modes	**6**
DMX footprint	**42, 46, 51, 59 channels**
Beam angle	**5-55°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**317 × 548 × 311 mm**
GDTF fixture type	**C9F1E863-8A41-4899-9A32-FB...**

Controls

Focus · Frost · Iris · Prism · Prism rotation · Zoom · CMY colour mixing · Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Pan and tilt · Movement speed · Animation wheel · Gobos · Gobo rotation

Safety-relevant functions

Fixture reset · Service functions

DMX modes

Mode 2 - CMY	42 ch
Mode 2 - RGB reduced	42 ch
Mode 4 - 7 colors reduced	46 ch
Mode 1 - CMY	51 ch
Mode 1 - RGB	51 ch
Mode 3 - 7 colors	59 ch

Mode 2 - CMY

42 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 feature 10–14 Wired DMX 15–19 Wireless DMX 20–24 Graphic display On 25–29 Graphic display Off 30–39 NoFeature 4 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–64 Blackout while gobo wheels moving 65–69 Disabled blackout while gobo wheels moving 70–74 Fans mode Auto 75–79 Fans mode High 80–84 Dimmer curve Square law 85–89 Dimmer curve Linear 90–129 Reserved 130–139 Reset except PT 140–149 PositionReset 150–159 Reserved 160–169 Gobo wheels reset 170–179 Reserved 180–189 Zoom/focus/frost/prism reset 190–199 Iris /framing shutters/effect wheel reset 200–209 Total fixture reset 210–224 Reserved 225–229 RoboSpot enabled 230–234 RoboSpot disabled except faders and PT 235–239 RoboSpot fully disabled 240–240 Disable Theatre mode 241–255 Theatre mode - fan noise control from min to max
7	Color Control	0	
8	Color Macro1	0	
9	Cyan	255	
10	Magenta	255	
11	Yellow	255	
12	C TO	110	0–1 8000 K (wheel slot -2147483648) 2–64 7978 K - > 6622 K (wheel slot -2147483648) 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 2 - CMY (continued)

Ch	Function	Default	DMX values
13	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
14	Color Mix Mode	45	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 (CTC+Green Cor+Virtual ColWheel de... 80–128 Reserved 129–129 Virtual colours (Virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
15	Gobo Wheel1MSpeed	0	
16	Global MSpeed	0	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode
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 1–24 Fast to slow 1/7 25–49 Fast to slow 2/7 50–74 Fast to slow 3/7 75–99 Fast to slow 4/7 100–119 Fast to slow 5/7 120–124 Fast to slow 6/7 125–127 Fast to slow 7/7 128–128 No rotation middle 129–131 Slow to fast 1/7 132–136 Slow to fast 2/7 137–156 Slow to fast 3/7 157–181 Slow to fast 4/7 182–206 Slow to fast 5/7 207–232 Slow to fast 6/7 233–255 Slow to fast 7/7
19	Animation Wheel1Macro	0	0–7 No animation (0) 8–9 Macro 1 (Focus=101) 10–11 Macro 2 (Focus=101) 12–13 Macro 3 (Focus=152) 14–15 Macro 4 (Focus=152) 16–17 Macro 5 (Focus=152) 18–19 Macro 6 (Focus=145) 20–21 Macro 7 (Focus=145) 22–23 Macro 8 (Focus=145) 24–25 Macro 9 (Focus=114) 26–27 Macro 10 (Focus=104) 28–255 NoFeature 2

Mode 2 - CMY (continued)

Ch	Function	Default	DMX values
20	Gobo	0	0–3 Open/hole - Index (wheel slot 1) 4–10 Gobo 1 - Index (wheel slot 2) 11–17 Gobo 2 - Index (wheel slot 3) 18–24 Gobo 3 - Index (wheel slot 4) 25–31 Gobo 4 - Index (wheel slot 5) 32–40 Gobo 5 - Index (wheel slot 6) 41–45 Gobo 6 - Index (wheel slot 7) 46–54 Gobo 7 - Index (wheel slot 8) 55–59 Gobo 8 - Index (wheel slot 9) 60–64 Open/hole - Index (wheel slot 1) 65–70 Gobo 1 - Step (wheel slot 2) 71–75 Gobo 2 - Step (wheel slot 3) 76–81 Gobo 3 - Step (wheel slot 4) 82–86 Gobo 4 - Step (wheel slot 5) 87–92 Gobo 5 - Step (wheel slot 6) 93–97 Gobo 6 - Step (wheel slot 7) 98–103 Gobo 7 - Step (wheel slot 8) 104–109 Gobo 8 - Step (wheel slot 9) 110–120 Gobo 1 - Shake (wheel slot 2) 121–131 Gobo 2 - Shake (wheel slot 3) 132–142 Gobo 3 - Shake (wheel slot 4) 143–153 Gobo 4 - Shake (wheel slot 5) 154–164 Gobo 5 - Shake (wheel slot 6) 165–175 Gobo 6 - Shake (wheel slot 7) 176–186 Gobo 7 - Shake (wheel slot 8) 187–197 Gobo 8 - Shake (wheel slot 9) 198–201 Open/hole (wheel slot 1) 202–202 Fast to slow 1/8 203–205 Fast to slow 2/8 206–209 Fast to slow 3/8 210–212 Fast to slow 4/8 213–214 Fast to slow 5/8 215–216 Fast to slow 6/8 217–218 Fast to slow 7/8 219–221 Fast to slow 8/8 222–223 No rotation middle 224–226 Slow to fast 1/8 227–228 Slow to fast 2/8 229–230 Slow to fast 3/8 231–232 Slow to fast 4/8 233–235 Slow to fast 5/8 236–239 Slow to fast 6/8 240–242 Slow to fast 7/8 243–243 Slow to fast 8/8 244–249 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow

Mode 2 - CMY (continued)

Ch	Function	Default	DMX values
21	Gobo 2	0	0–4 Open/hole (wheel slot 1) 5–8 Gobo 1 - Index (wheel slot 2) 9–13 Gobo 2 - Index (wheel slot 3) 14–17 Gobo 3 - Index (wheel slot 4) 18–22 Gobo 4 - Index (wheel slot 5) 23–26 Gobo 5 - Index (wheel slot 6) 27–31 Gobo 6 - Index (wheel slot 7) 32–35 Gobo 1 - Rotate (wheel slot 2) 36–40 Gobo 2 - Rotate (wheel slot 3) 41–44 Gobo 3 - Rotate (wheel slot 4) 45–49 Gobo 4 - Rotate (wheel slot 5) 50–54 Gobo 5 - Rotate (wheel slot 6) 55–59 Gobo 6 - Rotate (wheel slot 7) 60–71 Gobo 1 - Shaking Index (wheel slot 2) 72–83 Gobo 2 - Shaking Index (wheel slot 3) 84–95 Gobo 3 - Shaking Index (wheel slot 4) 96–106 Gobo 4 - Shaking Index (wheel slot 5) 107–118 Gobo 5 - Shaking Index (wheel slot 6) 119–129 Gobo 6 - Shaking Index (wheel slot 7) 130–141 Gobo 1 - Shaking Rotation (wheel slot 2) 142–153 Gobo 2 - Shaking Rotation (wheel slot 3) 154–165 Gobo 3 - Shaking Rotation (wheel slot 4) 166–176 Gobo 4 - Shaking Rotation (wheel slot 5) 177–188 Gobo 5 - Shaking Rotation (wheel slot 6) 189–199 Gobo 6 - Shaking Rotation (wheel slot 7) 200–201 Open/Hole (wheel slot 1) 202–202 Fast to slow 1/8 203–205 Fast to slow 2/8 206–209 Fast to slow 3/8 210–212 Fast to slow 4/8 213–214 Fast to slow 5/8 215–216 Fast to slow 6/8 217–218 Fast to slow 7/8 219–222 Fast to slow 8/8 223–226 Slow to fast 1/8 227–228 Slow to fast 2/8 229–230 Slow to fast 3/8 231–232 Slow to fast 4/8 233–235 Slow to fast 5/8 236–239 Slow to fast 6/8 240–242 Slow to fast 7/8 243–243 Slow to fast 8/8 244–255 Auto random gobo selection from fast to slow
22	Gobo Rotation 2	128	0–0 Min 1–24 fast to slow 100% 25–49 fast to slow 80% 50–74 fast to slow 60% 75–99 fast to slow 40% 100–119 fast to slow 20% 120–123 fast to slow 10% 124–127 fast to slow 5% 128–128 Center 129–132 slow to fast 5% 133–136 slow to fast 10% 137–156 slow to fast 20% 157–181 slow to fast 40% 182–206 slow to fast 60% 207–231 slow to fast 80% 232–254 slow to fast 100% 255–255 Max

Mode 2 - CMY (continued)

Ch	Function	Default	DMX values
23	Prism	0	0–19 Open position/hole (wheel slot 1) 20–127 5 - facet linear prism - indexing (wheel slot 2) 128–135 Prism Macro 1 (wheel slot 3) 136–143 Prism Macro 2 (wheel slot 4) 144–151 Prism Macro 3 (wheel slot 5) 152–159 Prism Macro 4 (wheel slot 6) 160–167 Prism Macro 5 (wheel slot 7) 168–175 Prism Macro 6 (wheel slot 8) 176–183 Prism Macro 7 (wheel slot 9) 184–191 Prism Macro 8 (wheel slot 10) 192–199 Prism Macro 9 (wheel slot 11) 200–207 Prism Macro 10 (wheel slot 12) 208–215 Prism Macro 11 (wheel slot 13) 216–223 Prism Macro 12 (wheel slot 14) 224–231 Prism Macro 13 (wheel slot 15) 232–239 Prism Macro 14 (wheel slot 16) 240–247 Prism Macro 15 (wheel slot 17) 248–255 Prism Macro 16 (wheel slot 18)
24	Prism Rotation	128	0–0 No rotation 1–24 Fast to slow 1/7 25–49 Fast to slow 2/7 50–74 Fast to slow 3/7 75–99 Fast to slow 4/7 100–119 Fast to slow 5/7 120–124 Fast to slow 6/7 125–127 Fast to slow 7/7 128–128 No rotation middle 129–131 Slow to fast 1/7 132–136 Slow to fast 2/7 137–156 Slow to fast 3/7 157–181 Slow to fast 4/7 182–206 Slow to fast 5/7 207–232 Slow to fast 6/7 233–255 Slow to fast 7/7
25	Frost1	0	0–0 Open 1–179 Frost from 0% to 100% 180–189 100% frost 190–211 Pulse closing from slow to fast 212–233 Pulse opening from fast to slow 234–255 Ramping from fast to slow

Mode 2 - CMY (continued)

Ch	Function	Default	DMX values
26	Iris	0	0–179 Open 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	Zoom	128	0–254 Zoom max 255–255 Zoom min
28	Focus	128	0–254 Focus far 255–255 Focus near
29	No Feature	0	
30	Shaper Rot	0	0–127 min 128–254 mid 255–255 max
31	Blade1A	0	
32	Blade1Rot	128	
33	Blade2A	0	
34	Blade2Rot	128	
35	Blade3A	0	
36	Blade3Rot	128	
37	Blade4A	0	
38	Blade4Rot	128	
39	Shaper Macros	0	
40	Shaper Macros Speed	128	

Mode 2 - CMY (continued)

Ch	Function	Default	DMX values
41	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
42	Dimmer	0	0–254 Closed 255–255 Open

Mode 2 - RGB reduced

42 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 feature 10–14 Wired DMX 15–19 Wireless DMX 20–24 Graphic display On 25–29 Graphic display Off 30–39 NoFeature 4 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–64 Blackout while gobo wheels moving 65–69 Disabled blackout while gobo wheels moving 70–74 Fans mode Auto 75–79 Fans mode High 80–84 Dimmer curve Square law 85–89 Dimmer curve Linear 90–129 Reserved 130–139 Reset except PT 140–149 PositionReset 150–159 Reserved 160–169 Gobo wheels reset 170–179 Reserved 180–189 Zoom/focus/frost/prism reset 190–199 Iris /framing shutters/effect wheel reset 200–209 Total fixture reset 210–224 Reserved 225–229 RoboSpot enabled 230–234 RoboSpot disabled except faders and PT 235–239 RoboSpot fully disabled 240–240 Disable Theatre mode 241–255 Theatre mode - fan noise control from min to max

Mode 2 - RGB reduced (continued)

Ch	Function	Default	DMX values
7	Color Control	0	
8	Color Macro1	0	
9	Red	255	
10	Green	255	
11	Blue	255	
12	C TO	110	0–1 8000 K (wheel slot -2147483648) 2–64 7978 K - > 6622 K (wheel slot -2147483648) 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	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
14	Color Mix Mode	45	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 (CTC+Green Cor+Virtual ColWheel de... 80–128 Reserved 129–129 Virtual colours (Virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
15	Gobo Wheel1MSpeed	0	
16	Global MSpeed	0	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode
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...

Mode 2 - RGB reduced (continued)

Ch	Function	Default	DMX values
18	Animation Wheel1Pos	128	0–0 No rotation 1–24 Fast to slow 1/7 25–49 Fast to slow 2/7 50–74 Fast to slow 3/7 75–99 Fast to slow 4/7 100–119 Fast to slow 5/7 120–124 Fast to slow 6/7 125–127 Fast to slow 7/7 128–128 No rotation middle 129–131 Slow to fast 1/7 132–136 Slow to fast 2/7 137–156 Slow to fast 3/7 157–181 Slow to fast 4/7 182–206 Slow to fast 5/7 207–232 Slow to fast 6/7 233–255 Slow to fast 7/7
19	Animation Wheel1Macro	0	0–7 No animation (0) 8–9 Macro 1 (Focus=101) 10–11 Macro 2 (Focus=101) 12–13 Macro 3 (Focus=152) 14–15 Macro 4 (Focus=152) 16–17 Macro 5 (Focus=152) 18–19 Macro 6 (Focus=145) 20–21 Macro 7 (Focus=145) 22–23 Macro 8 (Focus=145) 24–25 Macro 9 (Focus=114) 26–27 Macro 10 (Focus=104) 28–255 NoFeature 2

Mode 2 - RGB reduced (continued)

Ch	Function	Default	DMX values
20	Gobo	0	0–3 Open/hole - Index (wheel slot 1) 4–10 Gobo 1 - Index (wheel slot 2) 11–17 Gobo 2 - Index (wheel slot 3) 18–24 Gobo 3 - Index (wheel slot 4) 25–31 Gobo 4 - Index (wheel slot 5) 32–40 Gobo 5 - Index (wheel slot 6) 41–45 Gobo 6 - Index (wheel slot 7) 46–54 Gobo 7 - Index (wheel slot 8) 55–59 Gobo 8 - Index (wheel slot 9) 60–64 Open/hole - Index (wheel slot 1) 65–70 Gobo 1 - Step (wheel slot 2) 71–75 Gobo 2 - Step (wheel slot 3) 76–81 Gobo 3 - Step (wheel slot 4) 82–86 Gobo 4 - Step (wheel slot 5) 87–92 Gobo 5 - Step (wheel slot 6) 93–97 Gobo 6 - Step (wheel slot 7) 98–103 Gobo 7 - Step (wheel slot 8) 104–109 Gobo 8 - Step (wheel slot 9) 110–120 Gobo 1 - Shake (wheel slot 2) 121–131 Gobo 2 - Shake (wheel slot 3) 132–142 Gobo 3 - Shake (wheel slot 4) 143–153 Gobo 4 - Shake (wheel slot 5) 154–164 Gobo 5 - Shake (wheel slot 6) 165–175 Gobo 6 - Shake (wheel slot 7) 176–186 Gobo 7 - Shake (wheel slot 8) 187–197 Gobo 8 - Shake (wheel slot 9) 198–201 Open/hole (wheel slot 1) 202–202 Fast to slow 1/8 203–205 Fast to slow 2/8 206–209 Fast to slow 3/8 210–212 Fast to slow 4/8 213–214 Fast to slow 5/8 215–216 Fast to slow 6/8 217–218 Fast to slow 7/8 219–221 Fast to slow 8/8 222–223 No rotation middle 224–226 Slow to fast 1/8 227–228 Slow to fast 2/8 229–230 Slow to fast 3/8 231–232 Slow to fast 4/8 233–235 Slow to fast 5/8 236–239 Slow to fast 6/8 240–242 Slow to fast 7/8 243–243 Slow to fast 8/8 244–249 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow

Mode 2 - RGB reduced (continued)

Ch	Function	Default	DMX values
21	Gobo 2	0	0–4 Open/hole (wheel slot 1) 5–8 Gobo 1 - Index (wheel slot 2) 9–13 Gobo 2 - Index (wheel slot 3) 14–17 Gobo 3 - Index (wheel slot 4) 18–22 Gobo 4 - Index (wheel slot 5) 23–26 Gobo 5 - Index (wheel slot 6) 27–31 Gobo 6 - Index (wheel slot 7) 32–35 Gobo 1 - Rotate (wheel slot 2) 36–40 Gobo 2 - Rotate (wheel slot 3) 41–44 Gobo 3 - Rotate (wheel slot 4) 45–49 Gobo 4 - Rotate (wheel slot 5) 50–54 Gobo 5 - Rotate (wheel slot 6) 55–59 Gobo 6 - Rotate (wheel slot 7) 60–71 Gobo 1 - Shaking Index (wheel slot 2) 72–83 Gobo 2 - Shaking Index (wheel slot 3) 84–95 Gobo 3 - Shaking Index (wheel slot 4) 96–106 Gobo 4 - Shaking Index (wheel slot 5) 107–118 Gobo 5 - Shaking Index (wheel slot 6) 119–129 Gobo 6 - Shaking Index (wheel slot 7) 130–141 Gobo 1 - Shaking Rotation (wheel slot 2) 142–153 Gobo 2 - Shaking Rotation (wheel slot 3) 154–165 Gobo 3 - Shaking Rotation (wheel slot 4) 166–176 Gobo 4 - Shaking Rotation (wheel slot 5) 177–188 Gobo 5 - Shaking Rotation (wheel slot 6) 189–199 Gobo 6 - Shaking Rotation (wheel slot 7) 200–201 Open/Hole (wheel slot 1) 202–202 Fast to slow 1/8 203–205 Fast to slow 2/8 206–209 Fast to slow 3/8 210–212 Fast to slow 4/8 213–214 Fast to slow 5/8 215–216 Fast to slow 6/8 217–218 Fast to slow 7/8 219–222 Fast to slow 8/8 223–226 Slow to fast 1/8 227–228 Slow to fast 2/8 229–230 Slow to fast 3/8 231–232 Slow to fast 4/8 233–235 Slow to fast 5/8 236–239 Slow to fast 6/8 240–242 Slow to fast 7/8 243–243 Slow to fast 8/8 244–255 Auto random gobo selection from fast to slow
22	Gobo Rotation 2	128	0–0 Min 1–24 fast to slow 100% 25–49 fast to slow 80% 50–74 fast to slow 60% 75–99 fast to slow 40% 100–119 fast to slow 20% 120–123 fast to slow 10% 124–127 fast to slow 5% 128–128 Center 129–132 slow to fast 5% 133–136 slow to fast 10% 137–156 slow to fast 20% 157–181 slow to fast 40% 182–206 slow to fast 60% 207–231 slow to fast 80% 232–254 slow to fast 100% 255–255 Max

Mode 2 - RGB reduced (continued)

Ch	Function	Default	DMX values
23	Prism	0	0–19 Open position/hole (wheel slot 1) 20–127 5 - facet linear prism - indexing (wheel slot 2) 128–135 Prism Macro 1 (wheel slot 3) 136–143 Prism Macro 2 (wheel slot 4) 144–151 Prism Macro 3 (wheel slot 5) 152–159 Prism Macro 4 (wheel slot 6) 160–167 Prism Macro 5 (wheel slot 7) 168–175 Prism Macro 6 (wheel slot 8) 176–183 Prism Macro 7 (wheel slot 9) 184–191 Prism Macro 8 (wheel slot 10) 192–199 Prism Macro 9 (wheel slot 11) 200–207 Prism Macro 10 (wheel slot 12) 208–215 Prism Macro 11 (wheel slot 13) 216–223 Prism Macro 12 (wheel slot 14) 224–231 Prism Macro 13 (wheel slot 15) 232–239 Prism Macro 14 (wheel slot 16) 240–247 Prism Macro 15 (wheel slot 17) 248–255 Prism Macro 16 (wheel slot 18)
24	Prism Rotation	128	0–0 No rotation 1–24 Fast to slow 1/7 25–49 Fast to slow 2/7 50–74 Fast to slow 3/7 75–99 Fast to slow 4/7 100–119 Fast to slow 5/7 120–124 Fast to slow 6/7 125–127 Fast to slow 7/7 128–128 No rotation middle 129–131 Slow to fast 1/7 132–136 Slow to fast 2/7 137–156 Slow to fast 3/7 157–181 Slow to fast 4/7 182–206 Slow to fast 5/7 207–232 Slow to fast 6/7 233–255 Slow to fast 7/7
25	Frost1	0	0–0 Open 1–179 Frost from 0% to 100% 180–189 100% frost 190–211 Pulse closing from slow to fast 212–233 Pulse opening from fast to slow 234–255 Ramping from fast to slow

Mode 2 - RGB reduced (continued)

Ch	Function	Default	DMX values
26	Iris	0	0–179 Open 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	Zoom	128	0–254 Zoom max 255–255 Zoom min
28	Focus	128	0–254 Focus far 255–255 Focus near
29	No Feature	0	
30	Shaper Rot	0	0–127 min 128–254 mid 255–255 max
31	Blade1A	0	
32	Blade1Rot	128	
33	Blade2A	0	
34	Blade2Rot	128	
35	Blade3A	0	
36	Blade3Rot	128	
37	Blade4A	0	
38	Blade4Rot	128	
39	Shaper Macros	0	
40	Shaper Macros Speed	128	

Mode 2 - RGB reduced (continued)

Ch	Function	Default	DMX values
41	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
42	Dimmer	0	0–254 Closed 255–255 Open

Mode 4 - 7 colors reduced

46 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 feature 10–14 Wired DMX 15–19 Wireless DMX 20–24 Graphic display On 25–29 Graphic display Off 30–39 NoFeature 4 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–64 Blackout while gobo wheels moving 65–69 Disabled blackout while gobo wheels moving 70–74 Fans mode Auto 75–79 Fans mode High 80–84 Dimmer curve Square law 85–89 Dimmer curve Linear 90–129 Reserved 130–139 Reset except PT 140–149 PositionReset 150–159 Reserved 160–169 Gobo wheels reset 170–179 Reserved 180–189 Zoom/focus/frost/prism reset 190–199 Iris /framing shutters/effect wheel reset 200–209 Total fixture reset 210–224 Reserved 225–229 RoboSpot enabled 230–234 RoboSpot disabled except faders and PT 235–239 RoboSpot fully disabled 240–240 Disable Theatre mode 241–255 Theatre mode - fan noise control from min to max

Mode 4 - 7 colors reduced (continued)

Ch	Function	Default	DMX values
7	Color Control	0	
8	Color Macro1	0	
9	Red	255	
10	Green	255	
11	Blue	255	
12	Color Add RY	255	
13	Color Add C	255	
14	UV	255	
15	Color Add GY	255	
16	C TO	110	0–1 8000 K (wheel slot -2147483648) 2–64 7978 K - > 6622 K (wheel slot -2147483648) 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
17	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
18	Color Mix Mode	45	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 (CTC+Green Cor+Virtual ColWheel de... 80–128 Reserved 129–129 Virtual colours (Virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
19	Gobo Wheel1MSpeed	0	
20	Global MSpeed	0	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode
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...

Mode 4 - 7 colors reduced (continued)

Ch	Function	Default	DMX values
22	Animation Wheel1Pos	128	0–0 No rotation 1–24 Fast to slow 1/7 25–49 Fast to slow 2/7 50–74 Fast to slow 3/7 75–99 Fast to slow 4/7 100–119 Fast to slow 5/7 120–124 Fast to slow 6/7 125–127 Fast to slow 7/7 128–128 No rotation middle 129–131 Slow to fast 1/7 132–136 Slow to fast 2/7 137–156 Slow to fast 3/7 157–181 Slow to fast 4/7 182–206 Slow to fast 5/7 207–232 Slow to fast 6/7 233–255 Slow to fast 7/7
23	Animation Wheel1Macro	0	0–7 No animation (0) 8–9 Macro 1 (Focus=101) 10–11 Macro 2 (Focus=101) 12–13 Macro 3 (Focus=152) 14–15 Macro 4 (Focus=152) 16–17 Macro 5 (Focus=152) 18–19 Macro 6 (Focus=145) 20–21 Macro 7 (Focus=145) 22–23 Macro 8 (Focus=145) 24–25 Macro 9 (Focus=114) 26–27 Macro 10 (Focus=104) 28–255 NoFeature 2

Mode 4 - 7 colors reduced (continued)

Ch	Function	Default	DMX values
24	Gobo	0	0–3 Open/hole - Index (wheel slot 1) 4–10 Gobo 1 - Index (wheel slot 2) 11–17 Gobo 2 - Index (wheel slot 3) 18–24 Gobo 3 - Index (wheel slot 4) 25–31 Gobo 4 - Index (wheel slot 5) 32–40 Gobo 5 - Index (wheel slot 6) 41–45 Gobo 6 - Index (wheel slot 7) 46–54 Gobo 7 - Index (wheel slot 8) 55–59 Gobo 8 - Index (wheel slot 9) 60–64 Open/hole - Index (wheel slot 1) 65–70 Gobo 1 - Step (wheel slot 2) 71–75 Gobo 2 - Step (wheel slot 3) 76–81 Gobo 3 - Step (wheel slot 4) 82–86 Gobo 4 - Step (wheel slot 5) 87–92 Gobo 5 - Step (wheel slot 6) 93–97 Gobo 6 - Step (wheel slot 7) 98–103 Gobo 7 - Step (wheel slot 8) 104–109 Gobo 8 - Step (wheel slot 9) 110–120 Gobo 1 - Shake (wheel slot 2) 121–131 Gobo 2 - Shake (wheel slot 3) 132–142 Gobo 3 - Shake (wheel slot 4) 143–153 Gobo 4 - Shake (wheel slot 5) 154–164 Gobo 5 - Shake (wheel slot 6) 165–175 Gobo 6 - Shake (wheel slot 7) 176–186 Gobo 7 - Shake (wheel slot 8) 187–197 Gobo 8 - Shake (wheel slot 9) 198–201 Open/hole (wheel slot 1) 202–202 Fast to slow 1/8 203–205 Fast to slow 2/8 206–209 Fast to slow 3/8 210–212 Fast to slow 4/8 213–214 Fast to slow 5/8 215–216 Fast to slow 6/8 217–218 Fast to slow 7/8 219–221 Fast to slow 8/8 222–223 No rotation middle 224–226 Slow to fast 1/8 227–228 Slow to fast 2/8 229–230 Slow to fast 3/8 231–232 Slow to fast 4/8 233–235 Slow to fast 5/8 236–239 Slow to fast 6/8 240–242 Slow to fast 7/8 243–243 Slow to fast 8/8 244–249 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow

Mode 4 - 7 colors reduced (continued)

Ch	Function	Default	DMX values
25	Gobo 2	0	0–4 Open/hole (wheel slot 1) 5–8 Gobo 1 - Index (wheel slot 2) 9–13 Gobo 2 - Index (wheel slot 3) 14–17 Gobo 3 - Index (wheel slot 4) 18–22 Gobo 4 - Index (wheel slot 5) 23–26 Gobo 5 - Index (wheel slot 6) 27–31 Gobo 6 - Index (wheel slot 7) 32–35 Gobo 1 - Rotate (wheel slot 2) 36–40 Gobo 2 - Rotate (wheel slot 3) 41–44 Gobo 3 - Rotate (wheel slot 4) 45–49 Gobo 4 - Rotate (wheel slot 5) 50–54 Gobo 5 - Rotate (wheel slot 6) 55–59 Gobo 6 - Rotate (wheel slot 7) 60–71 Gobo 1 - Shaking Index (wheel slot 2) 72–83 Gobo 2 - Shaking Index (wheel slot 3) 84–95 Gobo 3 - Shaking Index (wheel slot 4) 96–106 Gobo 4 - Shaking Index (wheel slot 5) 107–118 Gobo 5 - Shaking Index (wheel slot 6) 119–129 Gobo 6 - Shaking Index (wheel slot 7) 130–141 Gobo 1 - Shaking Rotation (wheel slot 2) 142–153 Gobo 2 - Shaking Rotation (wheel slot 3) 154–165 Gobo 3 - Shaking Rotation (wheel slot 4) 166–176 Gobo 4 - Shaking Rotation (wheel slot 5) 177–188 Gobo 5 - Shaking Rotation (wheel slot 6) 189–199 Gobo 6 - Shaking Rotation (wheel slot 7) 200–201 Open/Hole (wheel slot 1) 202–202 Fast to slow 1/8 203–205 Fast to slow 2/8 206–209 Fast to slow 3/8 210–212 Fast to slow 4/8 213–214 Fast to slow 5/8 215–216 Fast to slow 6/8 217–218 Fast to slow 7/8 219–222 Fast to slow 8/8 223–226 Slow to fast 1/8 227–228 Slow to fast 2/8 229–230 Slow to fast 3/8 231–232 Slow to fast 4/8 233–235 Slow to fast 5/8 236–239 Slow to fast 6/8 240–242 Slow to fast 7/8 243–243 Slow to fast 8/8 244–255 Auto random gobo selection from fast to slow
26	Gobo Rotation 2	128	0–0 Min 1–24 fast to slow 100% 25–49 fast to slow 80% 50–74 fast to slow 60% 75–99 fast to slow 40% 100–119 fast to slow 20% 120–123 fast to slow 10% 124–127 fast to slow 5% 128–128 Center 129–132 slow to fast 5% 133–136 slow to fast 10% 137–156 slow to fast 20% 157–181 slow to fast 40% 182–206 slow to fast 60% 207–231 slow to fast 80% 232–254 slow to fast 100% 255–255 Max

Mode 4 - 7 colors reduced (continued)

Ch	Function	Default	DMX values
27	Prism	0	0–19 Open position/hole (wheel slot 1) 20–127 5 - facet linear prism - indexing (wheel slot 2) 128–135 Prism Macro 1 (wheel slot 3) 136–143 Prism Macro 2 (wheel slot 4) 144–151 Prism Macro 3 (wheel slot 5) 152–159 Prism Macro 4 (wheel slot 6) 160–167 Prism Macro 5 (wheel slot 7) 168–175 Prism Macro 6 (wheel slot 8) 176–183 Prism Macro 7 (wheel slot 9) 184–191 Prism Macro 8 (wheel slot 10) 192–199 Prism Macro 9 (wheel slot 11) 200–207 Prism Macro 10 (wheel slot 12) 208–215 Prism Macro 11 (wheel slot 13) 216–223 Prism Macro 12 (wheel slot 14) 224–231 Prism Macro 13 (wheel slot 15) 232–239 Prism Macro 14 (wheel slot 16) 240–247 Prism Macro 15 (wheel slot 17) 248–255 Prism Macro 16 (wheel slot 18)
28	Prism Rotation	128	0–0 No rotation 1–24 Fast to slow 1/7 25–49 Fast to slow 2/7 50–74 Fast to slow 3/7 75–99 Fast to slow 4/7 100–119 Fast to slow 5/7 120–124 Fast to slow 6/7 125–127 Fast to slow 7/7 128–128 No rotation middle 129–131 Slow to fast 1/7 132–136 Slow to fast 2/7 137–156 Slow to fast 3/7 157–181 Slow to fast 4/7 182–206 Slow to fast 5/7 207–232 Slow to fast 6/7 233–255 Slow to fast 7/7
29	Frost1	0	0–0 Open 1–179 Frost from 0% to 100% 180–189 100% frost 190–211 Pulse closing from slow to fast 212–233 Pulse opening from fast to slow 234–255 Ramping from fast to slow

Mode 4 - 7 colors reduced (continued)

Ch	Function	Default	DMX values
30	Iris	0	0–179 Open 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	Zoom	128	0–254 Zoom max 255–255 Zoom min
32	Focus	128	0–254 Focus far 255–255 Focus near
33	No Feature	0	
34	Shaper Rot	0	0–127 min 128–254 mid 255–255 max
35	Blade1A	0	
36	Blade1Rot	128	
37	Blade2A	0	
38	Blade2Rot	128	
39	Blade3A	0	
40	Blade3Rot	128	
41	Blade4A	0	
42	Blade4Rot	128	
43	Shaper Macros	0	
44	Shaper Macros Speed	128	

Mode 4 - 7 colors reduced (continued)

Ch	Function	Default	DMX values
45	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
46	Dimmer	0	0–254 Closed 255–255 Open

Mode 1 - CMY

51 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 feature 10–14 Wired DMX 15–19 Wireless DMX 20–24 Graphic display On 25–29 Graphic display Off 30–39 NoFeature 4 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–64 Blackout while gobo wheels moving 65–69 Disabled blackout while gobo wheels moving 70–74 Fans mode Auto 75–79 Fans mode High 80–84 Dimmer curve Square law 85–89 Dimmer curve Linear 90–129 Reserved 130–139 Reset except PT 140–149 PositionReset 150–159 Reserved 160–169 Gobo wheels reset 170–179 Reserved 180–189 Zoom/focus/frost/prism reset 190–199 Iris /framing shutters/effect wheel reset 200–209 Total fixture reset 210–224 Reserved 225–229 RoboSpot enabled 230–234 RoboSpot disabled except faders and PT 235–239 RoboSpot fully disabled 240–240 Disable Theatre mode 241–255 Theatre mode - fan noise control from min to max

Mode 1 - CMY (continued)

Ch	Function	Default	DMX values
7	Color Control	0	
8	Color Macro1	0	
9	Cyan	255	
10	Cyan Fine	255	Fine byte of Cyan
11	Magenta	255	
12	Magenta Fine	255	Fine byte of Magenta
13	Yellow	255	
14	Yellow Fine	255	Fine byte of Yellow
15	C TO	110	0–1 8000 K (wheel slot -2147483648) 2–64 7978 K - > 6622 K (wheel slot -2147483648) 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
16	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
17	Color Mix Mode	45	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 (CTC+Green Cor+Virtual ColWheel de... 80–128 Reserved 129–129 Virtual colours (Virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
18	Gobo Wheel1MSpeed	0	
19	Global MSpeed	0	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode
20	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...

Mode 1 - CMY (continued)

Ch	Function	Default	DMX values
21	Animation Wheel1Pos	128	0–0 No rotation 1–24 Fast to slow 1/7 25–49 Fast to slow 2/7 50–74 Fast to slow 3/7 75–99 Fast to slow 4/7 100–119 Fast to slow 5/7 120–124 Fast to slow 6/7 125–127 Fast to slow 7/7 128–128 No rotation middle 129–131 Slow to fast 1/7 132–136 Slow to fast 2/7 137–156 Slow to fast 3/7 157–181 Slow to fast 4/7 182–206 Slow to fast 5/7 207–232 Slow to fast 6/7 233–255 Slow to fast 7/7
22	Animation Wheel1Macro	0	0–7 No animation (0) 8–9 Macro 1 (Focus=101) 10–11 Macro 2 (Focus=101) 12–13 Macro 3 (Focus=152) 14–15 Macro 4 (Focus=152) 16–17 Macro 5 (Focus=152) 18–19 Macro 6 (Focus=145) 20–21 Macro 7 (Focus=145) 22–23 Macro 8 (Focus=145) 24–25 Macro 9 (Focus=114) 26–27 Macro 10 (Focus=104) 28–255 NoFeature 2

Mode 1 - CMY (continued)

Ch	Function	Default	DMX values
23	Gobo	0	0–2 Open/hole - Index (wheel slot 1) 3–9 Gobo 1 - Index (wheel slot 2) 10–16 Gobo 2 - Index (wheel slot 3) 17–23 Gobo 3 - Index (wheel slot 4) 24–31 Gobo 4 - Index (wheel slot 5) 32–38 Gobo 5 - Index (wheel slot 6) 39–45 Gobo 6 - Index (wheel slot 7) 46–52 Gobo 7 - Index (wheel slot 8) 53–59 Gobo 8 - Index (wheel slot 9) 60–64 Open/hole - Index (wheel slot 1) 65–70 Gobo 1 - Step (wheel slot 2) 71–75 Gobo 2 - Step (wheel slot 3) 76–81 Gobo 3 - Step (wheel slot 4) 82–86 Gobo 4 - Step (wheel slot 5) 87–92 Gobo 5 - Step (wheel slot 6) 93–97 Gobo 6 - Step (wheel slot 7) 98–103 Gobo 7 - Step (wheel slot 8) 104–109 Gobo 8 - Step (wheel slot 9) 110–120 Gobo 1 - Shake (wheel slot 2) 121–131 Gobo 2 - Shake (wheel slot 3) 132–142 Gobo 3 - Shake (wheel slot 4) 143–153 Gobo 4 - Shake (wheel slot 5) 154–164 Gobo 5 - Shake (wheel slot 6) 165–175 Gobo 6 - Shake (wheel slot 7) 176–186 Gobo 7 - Shake (wheel slot 8) 187–197 Gobo 8 - Shake (wheel slot 9) 198–201 Open/hole (wheel slot 1) 202–202 Fast to slow 1/8 203–205 Fast to slow 2/8 206–209 Fast to slow 3/8 210–212 Fast to slow 4/8 213–214 Fast to slow 5/8 215–216 Fast to slow 6/8 217–218 Fast to slow 7/8 219–221 Fast to slow 8/8 222–223 No rotation middle 224–226 Slow to fast 1/8 227–228 Slow to fast 2/8 229–230 Slow to fast 3/8 231–232 Slow to fast 4/8 233–235 Slow to fast 5/8 236–239 Slow to fast 6/8 240–242 Slow to fast 7/8 243–243 Slow to fast 8/8 244–249 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow
24	Gobo Fine	0	Fine byte of Gobo

Mode 1 - CMY (continued)

Ch	Function	Default	DMX values
25	Gobo 2	0	0–4 Open/hole (wheel slot 1) 5–8 Gobo 1 - Index (wheel slot 2) 9–13 Gobo 2 - Index (wheel slot 3) 14–17 Gobo 3 - Index (wheel slot 4) 18–22 Gobo 4 - Index (wheel slot 5) 23–26 Gobo 5 - Index (wheel slot 6) 27–31 Gobo 6 - Index (wheel slot 7) 32–35 Gobo 1 - Rotate (wheel slot 2) 36–40 Gobo 2 - Rotate (wheel slot 3) 41–44 Gobo 3 - Rotate (wheel slot 4) 45–49 Gobo 4 - Rotate (wheel slot 5) 50–54 Gobo 5 - Rotate (wheel slot 6) 55–59 Gobo 6 - Rotate (wheel slot 7) 60–71 Gobo 1 - Shaking Index (wheel slot 2) 72–83 Gobo 2 - Shaking Index (wheel slot 3) 84–95 Gobo 3 - Shaking Index (wheel slot 4) 96–106 Gobo 4 - Shaking Index (wheel slot 5) 107–118 Gobo 5 - Shaking Index (wheel slot 6) 119–129 Gobo 6 - Shaking Index (wheel slot 7) 130–141 Gobo 1 - Shaking Rotation (wheel slot 2) 142–153 Gobo 2 - Shaking Rotation (wheel slot 3) 154–165 Gobo 3 - Shaking Rotation (wheel slot 4) 166–176 Gobo 4 - Shaking Rotation (wheel slot 5) 177–188 Gobo 5 - Shaking Rotation (wheel slot 6) 189–199 Gobo 6 - Shaking Rotation (wheel slot 7) 200–201 Open/Hole (wheel slot 1) 202–202 Fast to slow 1/8 203–205 Fast to slow 2/8 206–209 Fast to slow 3/8 210–212 Fast to slow 4/8 213–214 Fast to slow 5/8 215–216 Fast to slow 6/8 217–218 Fast to slow 7/8 219–222 Fast to slow 8/8 223–226 Slow to fast 1/8 227–228 Slow to fast 2/8 229–230 Slow to fast 3/8 231–232 Slow to fast 4/8 233–235 Slow to fast 5/8 236–239 Slow to fast 6/8 240–242 Slow to fast 7/8 243–243 Slow to fast 8/8 244–255 Auto random gobo selection from fast to slow
26	Gobo Rotation 2	128	0–0 Min 1–24 fast to slow 100% 25–49 fast to slow 80% 50–74 fast to slow 60% 75–99 fast to slow 40% 100–119 fast to slow 20% 120–123 fast to slow 10% 124–127 fast to slow 5% 128–128 Center 129–132 slow to fast 5% 133–136 slow to fast 10% 137–156 slow to fast 20% 157–181 slow to fast 40% 182–206 slow to fast 60% 207–231 slow to fast 80% 232–254 slow to fast 100% 255–255 Max
27	Gobo Rotation 2 Fine	128	Fine byte of Gobo Rotation 2

Mode 1 - CMY (continued)

Ch	Function	Default	DMX values
28	Prism	0	0–19 Open position/hole (wheel slot 1) 20–127 5 - facet linear prism - indexing (wheel slot 2) 128–135 Prism Macro 1 (wheel slot 3) 136–143 Prism Macro 2 (wheel slot 4) 144–151 Prism Macro 3 (wheel slot 5) 152–159 Prism Macro 4 (wheel slot 6) 160–167 Prism Macro 5 (wheel slot 7) 168–175 Prism Macro 6 (wheel slot 8) 176–183 Prism Macro 7 (wheel slot 9) 184–191 Prism Macro 8 (wheel slot 10) 192–199 Prism Macro 9 (wheel slot 11) 200–207 Prism Macro 10 (wheel slot 12) 208–215 Prism Macro 11 (wheel slot 13) 216–223 Prism Macro 12 (wheel slot 14) 224–231 Prism Macro 13 (wheel slot 15) 232–239 Prism Macro 14 (wheel slot 16) 240–247 Prism Macro 15 (wheel slot 17) 248–255 Prism Macro 16 (wheel slot 18)
29	Prism Rotation	128	0–0 No rotation 1–24 Fast to slow 1/7 25–49 Fast to slow 2/7 50–74 Fast to slow 3/7 75–99 Fast to slow 4/7 100–119 Fast to slow 5/7 120–124 Fast to slow 6/7 125–127 Fast to slow 7/7 128–128 No rotation middle 129–131 Slow to fast 1/7 132–136 Slow to fast 2/7 137–156 Slow to fast 3/7 157–181 Slow to fast 4/7 182–206 Slow to fast 5/7 207–232 Slow to fast 6/7 233–255 Slow to fast 7/7
30	Frost1	0	0–0 Open 1–179 Frost from 0% to 100% 180–189 100% frost 190–211 Pulse closing from slow to fast 212–233 Pulse opening from fast to slow 234–255 Ramping from fast to slow

Mode 1 - CMY (continued)

Ch	Function	Default	DMX values
31	Iris	0	0–179 Open 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
32	Iris Fine	0	Fine byte of Iris
33	Zoom	128	0–254 Zoom max 255–255 Zoom min
34	Zoom Fine	0	Fine byte of Zoom
35	Focus	128	0–254 Focus far 255–255 Focus near
36	Focus Fine	0	Fine byte of Focus
37	No Feature	0	
38	Shaper Rot	0	0–127 min 128–254 mid 255–255 max
39	Blade1A	0	
40	Blade1Rot	128	
41	Blade2A	0	
42	Blade2Rot	128	
43	Blade3A	0	
44	Blade3Rot	128	
45	Blade4A	0	
46	Blade4Rot	128	
47	Shaper Macros	0	
48	Shaper Macros Speed	128	

Mode 1 - CMY (continued)

Ch	Function	Default	DMX values
49	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
50	Dimmer	0	0–254 Closed 255–255 Open
51	Dimmer Fine	0	Fine byte of Dimmer

Mode 1 - RGB

51 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	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 1 - RGB (continued)

Ch	Function	Default	DMX values
6	Control1	0	0–9 No feature 10–14 Wired DMX 15–19 Wireless DMX 20–24 Graphic display On 25–29 Graphic display Off 30–39 NoFeature 4 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–64 Blackout while gobo wheels moving 65–69 Disabled blackout while gobo wheels moving 70–74 Fans mode Auto 75–79 Fans mode High 80–84 Dimmer curve Square law 85–89 Dimmer curve Linear 90–129 Reserved 130–139 Reset except PT 140–149 PositionReset 150–159 Reserved 160–169 Gobo wheels reset 170–179 Reserved 180–189 Zoom/focus/frost/prism reset 190–199 Iris /framing shutters/effect wheel reset 200–209 Total fixture reset 210–224 Reserved 225–229 RoboSpot enabled 230–234 RoboSpot disabled except faders and PT 235–239 RoboSpot fully disabled 240–240 Disable Theatre mode 241–255 Theatre mode - fan noise control from min to max
7	Color Control	0	
8	Color Macro1	0	
9	Red	255	
10	Red Fine	255	Fine byte of Red
11	Green	255	
12	Green Fine	255	Fine byte of Green
13	Blue	255	
14	Blue Fine	255	Fine byte of Blue
15	C TO	110	0–1 8000 K (wheel slot -2147483648) 2–64 7978 K - > 6622 K (wheel slot -2147483648) 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
16	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

Mode 1 - RGB (continued)

Ch	Function	Default	DMX values
17	Color Mix Mode	45	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 (CTC+Green Cor+Virtual ColWheel de... 80–128 Reserved 129–129 Virtual colours (Virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
18	Gobo Wheel1MSpeed	0	
19	Global MSpeed	0	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode
20	Animation Wheel1	0	0–19 Open (wheel slot 1) 20–72 Proportional indexing min (wheel slot 2) 73–126 Proportional indexing center (wheel slot 2) 127–127 Proportional indexing max (wheel slot 2) 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...
21	Animation Wheel1Pos	128	0–0 No rotation 1–24 Fast to slow 1/7 25–49 Fast to slow 2/7 50–74 Fast to slow 3/7 75–99 Fast to slow 4/7 100–119 Fast to slow 5/7 120–124 Fast to slow 6/7 125–127 Fast to slow 7/7 128–128 No rotation middle 129–131 Slow to fast 1/7 132–136 Slow to fast 2/7 137–156 Slow to fast 3/7 157–181 Slow to fast 4/7 182–206 Slow to fast 5/7 207–232 Slow to fast 6/7 233–255 Slow to fast 7/7
22	Animation Wheel1Macro	0	0–7 No animation (0) 8–9 Macro 1 (Focus=101) 10–11 Macro 2 (Focus=101) 12–13 Macro 3 (Focus=152) 14–15 Macro 4 (Focus=152) 16–17 Macro 5 (Focus=152) 18–19 Macro 6 (Focus=145) 20–21 Macro 7 (Focus=145) 22–23 Macro 8 (Focus=145) 24–25 Macro 9 (Focus=114) 26–27 Macro 10 (Focus=104) 28–255 NoFeature 2

Mode 1 - RGB (continued)

Ch	Function	Default	DMX values
23	Gobo	0	0–2 Open/hole - Index (wheel slot 1) 3–9 Gobo 1 - Index (wheel slot 2) 10–16 Gobo 2 - Index (wheel slot 3) 17–23 Gobo 3 - Index (wheel slot 4) 24–31 Gobo 4 - Index (wheel slot 5) 32–38 Gobo 5 - Index (wheel slot 6) 39–45 Gobo 6 - Index (wheel slot 7) 46–52 Gobo 7 - Index (wheel slot 8) 53–59 Gobo 8 - Index (wheel slot 9) 60–64 Open/hole - Index (wheel slot 1) 65–70 Gobo 1 - Step (wheel slot 2) 71–75 Gobo 2 - Step (wheel slot 3) 76–81 Gobo 3 - Step (wheel slot 4) 82–86 Gobo 4 - Step (wheel slot 5) 87–92 Gobo 5 - Step (wheel slot 6) 93–97 Gobo 6 - Step (wheel slot 7) 98–103 Gobo 7 - Step (wheel slot 8) 104–109 Gobo 8 - Step (wheel slot 9) 110–120 Gobo 1 - Shake (wheel slot 2) 121–131 Gobo 2 - Shake (wheel slot 3) 132–142 Gobo 3 - Shake (wheel slot 4) 143–153 Gobo 4 - Shake (wheel slot 5) 154–164 Gobo 5 - Shake (wheel slot 6) 165–175 Gobo 6 - Shake (wheel slot 7) 176–186 Gobo 7 - Shake (wheel slot 8) 187–197 Gobo 8 - Shake (wheel slot 9) 198–201 Open/hole (wheel slot 1) 202–202 Fast to slow 1/8 203–205 Fast to slow 2/8 206–209 Fast to slow 3/8 210–212 Fast to slow 4/8 213–214 Fast to slow 5/8 215–216 Fast to slow 6/8 217–218 Fast to slow 7/8 219–221 Fast to slow 8/8 222–223 No rotation middle 224–226 Slow to fast 1/8 227–228 Slow to fast 2/8 229–230 Slow to fast 3/8 231–232 Slow to fast 4/8 233–235 Slow to fast 5/8 236–239 Slow to fast 6/8 240–242 Slow to fast 7/8 243–243 Slow to fast 8/8 244–249 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow
24	Gobo Fine	0	Fine byte of Gobo

Mode 1 - RGB (continued)

Ch	Function	Default	DMX values
25	Gobo 2	0	0–4 Open/hole (wheel slot 1) 5–8 Gobo 1 - Index (wheel slot 2) 9–13 Gobo 2 - Index (wheel slot 3) 14–17 Gobo 3 - Index (wheel slot 4) 18–22 Gobo 4 - Index (wheel slot 5) 23–26 Gobo 5 - Index (wheel slot 6) 27–31 Gobo 6 - Index (wheel slot 7) 32–35 Gobo 1 - Rotate (wheel slot 2) 36–40 Gobo 2 - Rotate (wheel slot 3) 41–44 Gobo 3 - Rotate (wheel slot 4) 45–49 Gobo 4 - Rotate (wheel slot 5) 50–54 Gobo 5 - Rotate (wheel slot 6) 55–59 Gobo 6 - Rotate (wheel slot 7) 60–71 Gobo 1 - Shaking Index (wheel slot 2) 72–83 Gobo 2 - Shaking Index (wheel slot 3) 84–95 Gobo 3 - Shaking Index (wheel slot 4) 96–106 Gobo 4 - Shaking Index (wheel slot 5) 107–118 Gobo 5 - Shaking Index (wheel slot 6) 119–129 Gobo 6 - Shaking Index (wheel slot 7) 130–141 Gobo 1 - Shaking Rotation (wheel slot 2) 142–153 Gobo 2 - Shaking Rotation (wheel slot 3) 154–165 Gobo 3 - Shaking Rotation (wheel slot 4) 166–176 Gobo 4 - Shaking Rotation (wheel slot 5) 177–188 Gobo 5 - Shaking Rotation (wheel slot 6) 189–199 Gobo 6 - Shaking Rotation (wheel slot 7) 200–201 Open/Hole (wheel slot 1) 202–202 Fast to slow 1/8 203–205 Fast to slow 2/8 206–209 Fast to slow 3/8 210–212 Fast to slow 4/8 213–214 Fast to slow 5/8 215–216 Fast to slow 6/8 217–218 Fast to slow 7/8 219–222 Fast to slow 8/8 223–226 Slow to fast 1/8 227–228 Slow to fast 2/8 229–230 Slow to fast 3/8 231–232 Slow to fast 4/8 233–235 Slow to fast 5/8 236–239 Slow to fast 6/8 240–242 Slow to fast 7/8 243–243 Slow to fast 8/8 244–255 Auto random gobo selection from fast to slow
26	Gobo Rotation 2	128	0–0 Min 1–24 fast to slow 100% 25–49 fast to slow 80% 50–74 fast to slow 60% 75–99 fast to slow 40% 100–119 fast to slow 20% 120–123 fast to slow 10% 124–127 fast to slow 5% 128–128 Center 129–132 slow to fast 5% 133–136 slow to fast 10% 137–156 slow to fast 20% 157–181 slow to fast 40% 182–206 slow to fast 60% 207–231 slow to fast 80% 232–254 slow to fast 100% 255–255 Max
27	Gobo Rotation 2 Fine	128	Fine byte of Gobo Rotation 2

Mode 1 - RGB (continued)

Ch	Function	Default	DMX values
28	Prism	0	0–19 Open position/hole (wheel slot 1) 20–127 5 - facet linear prism - indexing (wheel slot 2) 128–135 Prism Macro 1 (wheel slot 3) 136–143 Prism Macro 2 (wheel slot 4) 144–151 Prism Macro 3 (wheel slot 5) 152–159 Prism Macro 4 (wheel slot 6) 160–167 Prism Macro 5 (wheel slot 7) 168–175 Prism Macro 6 (wheel slot 8) 176–183 Prism Macro 7 (wheel slot 9) 184–191 Prism Macro 8 (wheel slot 10) 192–199 Prism Macro 9 (wheel slot 11) 200–207 Prism Macro 10 (wheel slot 12) 208–215 Prism Macro 11 (wheel slot 13) 216–223 Prism Macro 12 (wheel slot 14) 224–231 Prism Macro 13 (wheel slot 15) 232–239 Prism Macro 14 (wheel slot 16) 240–247 Prism Macro 15 (wheel slot 17) 248–255 Prism Macro 16 (wheel slot 18)
29	Prism Rotation	128	0–0 No rotation 1–24 Fast to slow 1/7 25–49 Fast to slow 2/7 50–74 Fast to slow 3/7 75–99 Fast to slow 4/7 100–119 Fast to slow 5/7 120–124 Fast to slow 6/7 125–127 Fast to slow 7/7 128–128 No rotation middle 129–131 Slow to fast 1/7 132–136 Slow to fast 2/7 137–156 Slow to fast 3/7 157–181 Slow to fast 4/7 182–206 Slow to fast 5/7 207–232 Slow to fast 6/7 233–255 Slow to fast 7/7
30	Frost1	0	0–0 Open 1–179 Frost from 0% to 100% 180–189 100% frost 190–211 Pulse closing from slow to fast 212–233 Pulse opening from fast to slow 234–255 Ramping from fast to slow

Mode 1 - RGB (continued)

Ch	Function	Default	DMX values
31	Iris	0	0–179 Open 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
32	Iris Fine	0	Fine byte of Iris
33	Zoom	128	0–254 Zoom max 255–255 Zoom min
34	Zoom Fine	0	Fine byte of Zoom
35	Focus	128	0–254 Focus far 255–255 Focus near
36	Focus Fine	0	Fine byte of Focus
37	No Feature	0	
38	Shaper Rot	0	0–127 min 128–254 mid 255–255 max
39	Blade1A	0	
40	Blade1Rot	128	
41	Blade2A	0	
42	Blade2Rot	128	
43	Blade3A	0	
44	Blade3Rot	128	
45	Blade4A	0	
46	Blade4Rot	128	
47	Shaper Macros	0	
48	Shaper Macros Speed	128	

Mode 1 - RGB (continued)

Ch	Function	Default	DMX values
49	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
50	Dimmer	0	0–254 Closed 255–255 Open
51	Dimmer Fine	0	Fine byte of Dimmer

Mode 3 - 7 colors

59 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 - 7 colors (continued)

Ch	Function	Default	DMX values
6	Control1	0	0–9 No feature 10–14 Wired DMX 15–19 Wireless DMX 20–24 Graphic display On 25–29 Graphic display Off 30–39 NoFeature 4 40–44 PT mode: Speed 45–49 PT mode: Time 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–64 Blackout while gobo wheels moving 65–69 Disabled blackout while gobo wheels moving 70–74 Fans mode Auto 75–79 Fans mode High 80–84 Dimmer curve Square law 85–89 Dimmer curve Linear 90–129 Reserved 130–139 Reset except PT 140–149 PositionReset 150–159 Reserved 160–169 Gobo wheels reset 170–179 Reserved 180–189 Zoom/focus/frost/prism reset 190–199 Iris /framing shutters/effect wheel reset 200–209 Total fixture reset 210–224 Reserved 225–229 RoboSpot enabled 230–234 RoboSpot disabled except faders and PT 235–239 RoboSpot fully disabled 240–240 Disable Theatre mode 241–255 Theatre mode - fan noise control from min to max
7	Color Control	0	
8	Color Macro1	0	
9	Red	255	
10	Red Fine	255	Fine byte of Red
11	Green	255	
12	Green Fine	255	Fine byte of Green
13	Blue	255	
14	Blue Fine	255	Fine byte of Blue
15	Color Add RY	255	
16	Color Add RY Fine	255	Fine byte of Color Add RY
17	Color Add C	255	
18	Color Add C Fine	255	Fine byte of Color Add C
19	UV	255	
20	UV Fine	255	Fine byte of UV
21	Color Add GY	255	
22	Color Add GY Fine	255	Fine byte of Color Add GY

Mode 3 - 7 colors (continued)

Ch	Function	Default	DMX values
23	C TO	110	0–1 8000 K (wheel slot -2147483648) 2–64 7978 K - > 6622 K (wheel slot -2147483648) 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
24	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
25	Color Mix Mode	45	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 (CTC+Green Cor+Virtual ColWheel de... 80–128 Reserved 129–129 Virtual colours (Virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
26	Gobo Wheel1MSpeed	0	
27	Global MSpeed	0	0–0 Standard mode 1–254 Max Speed Mode 255–255 Min Speed Mode
28	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...
29	Animation Wheel1Pos	128	0–0 No rotation 1–24 Fast to slow 1/7 25–49 Fast to slow 2/7 50–74 Fast to slow 3/7 75–99 Fast to slow 4/7 100–119 Fast to slow 5/7 120–124 Fast to slow 6/7 125–127 Fast to slow 7/7 128–128 No rotation middle 129–131 Slow to fast 1/7 132–136 Slow to fast 2/7 137–156 Slow to fast 3/7 157–181 Slow to fast 4/7 182–206 Slow to fast 5/7 207–232 Slow to fast 6/7 233–255 Slow to fast 7/7

Mode 3 - 7 colors (continued)

Ch	Function	Default	DMX values
30	Animation Wheel1Macro	0	0–7 No animation (0) 8–9 Macro 1 (Focus=101) 10–11 Macro 2 (Focus=101) 12–13 Macro 3 (Focus=152) 14–15 Macro 4 (Focus=152) 16–17 Macro 5 (Focus=152) 18–19 Macro 6 (Focus=145) 20–21 Macro 7 (Focus=145) 22–23 Macro 8 (Focus=145) 24–25 Macro 9 (Focus=114) 26–27 Macro 10 (Focus=104) 28–255 NoFeature 2
31	Gobo	0	0–2 Open/hole - Index (wheel slot 1) 3–9 Gobo 1 - Index (wheel slot 2) 10–16 Gobo 2 - Index (wheel slot 3) 17–23 Gobo 3 - Index (wheel slot 4) 24–31 Gobo 4 - Index (wheel slot 5) 32–38 Gobo 5 - Index (wheel slot 6) 39–45 Gobo 6 - Index (wheel slot 7) 46–52 Gobo 7 - Index (wheel slot 8) 53–59 Gobo 8 - Index (wheel slot 9) 60–64 Open/hole - Index (wheel slot 1) 65–70 Gobo 1 - Step (wheel slot 2) 71–75 Gobo 2 - Step (wheel slot 3) 76–81 Gobo 3 - Step (wheel slot 4) 82–86 Gobo 4 - Step (wheel slot 5) 87–92 Gobo 5 - Step (wheel slot 6) 93–97 Gobo 6 - Step (wheel slot 7) 98–103 Gobo 7 - Step (wheel slot 8) 104–109 Gobo 8 - Step (wheel slot 9) 110–120 Gobo 1 - Shake (wheel slot 2) 121–131 Gobo 2 - Shake (wheel slot 3) 132–142 Gobo 3 - Shake (wheel slot 4) 143–153 Gobo 4 - Shake (wheel slot 5) 154–164 Gobo 5 - Shake (wheel slot 6) 165–175 Gobo 6 - Shake (wheel slot 7) 176–186 Gobo 7 - Shake (wheel slot 8) 187–197 Gobo 8 - Shake (wheel slot 9) 198–201 Open/hole (wheel slot 1) 202–202 Fast to slow 1/8 203–205 Fast to slow 2/8 206–209 Fast to slow 3/8 210–212 Fast to slow 4/8 213–214 Fast to slow 5/8 215–216 Fast to slow 6/8 217–218 Fast to slow 7/8 219–221 Fast to slow 8/8 222–223 No rotation middle 224–226 Slow to fast 1/8 227–228 Slow to fast 2/8 229–230 Slow to fast 3/8 231–232 Slow to fast 4/8 233–235 Slow to fast 5/8 236–239 Slow to fast 6/8 240–242 Slow to fast 7/8 243–243 Slow to fast 8/8 244–249 Random gobo selection by audio control 250–255 Auto random gobo selection from fast to slow
32	Gobo Fine	0	Fine byte of Gobo

Mode 3 - 7 colors (continued)

Ch	Function	Default	DMX values
33	Gobo 2	0	0–4 Open/hole (wheel slot 1) 5–8 Gobo 1 - Index (wheel slot 2) 9–13 Gobo 2 - Index (wheel slot 3) 14–17 Gobo 3 - Index (wheel slot 4) 18–22 Gobo 4 - Index (wheel slot 5) 23–26 Gobo 5 - Index (wheel slot 6) 27–31 Gobo 6 - Index (wheel slot 7) 32–35 Gobo 1 - Rotate (wheel slot 2) 36–40 Gobo 2 - Rotate (wheel slot 3) 41–44 Gobo 3 - Rotate (wheel slot 4) 45–49 Gobo 4 - Rotate (wheel slot 5) 50–54 Gobo 5 - Rotate (wheel slot 6) 55–59 Gobo 6 - Rotate (wheel slot 7) 60–71 Gobo 1 - Shaking Index (wheel slot 2) 72–83 Gobo 2 - Shaking Index (wheel slot 3) 84–95 Gobo 3 - Shaking Index (wheel slot 4) 96–106 Gobo 4 - Shaking Index (wheel slot 5) 107–118 Gobo 5 - Shaking Index (wheel slot 6) 119–129 Gobo 6 - Shaking Index (wheel slot 7) 130–141 Gobo 1 - Shaking Rotation (wheel slot 2) 142–153 Gobo 2 - Shaking Rotation (wheel slot 3) 154–165 Gobo 3 - Shaking Rotation (wheel slot 4) 166–176 Gobo 4 - Shaking Rotation (wheel slot 5) 177–188 Gobo 5 - Shaking Rotation (wheel slot 6) 189–199 Gobo 6 - Shaking Rotation (wheel slot 7) 200–201 Open/Hole (wheel slot 1) 202–202 Fast to slow 1/8 203–205 Fast to slow 2/8 206–209 Fast to slow 3/8 210–212 Fast to slow 4/8 213–214 Fast to slow 5/8 215–216 Fast to slow 6/8 217–218 Fast to slow 7/8 219–222 Fast to slow 8/8 223–226 Slow to fast 1/8 227–228 Slow to fast 2/8 229–230 Slow to fast 3/8 231–232 Slow to fast 4/8 233–235 Slow to fast 5/8 236–239 Slow to fast 6/8 240–242 Slow to fast 7/8 243–243 Slow to fast 8/8 244–255 Auto random gobo selection from fast to slow
34	Gobo Rotation 2	128	0–0 Min 1–24 fast to slow 100% 25–49 fast to slow 80% 50–74 fast to slow 60% 75–99 fast to slow 40% 100–119 fast to slow 20% 120–123 fast to slow 10% 124–127 fast to slow 5% 128–128 Center 129–132 slow to fast 5% 133–136 slow to fast 10% 137–156 slow to fast 20% 157–181 slow to fast 40% 182–206 slow to fast 60% 207–231 slow to fast 80% 232–254 slow to fast 100% 255–255 Max
35	Gobo Rotation 2 Fine	128	Fine byte of Gobo Rotation 2

Mode 3 - 7 colors (continued)

Ch	Function	Default	DMX values
36	Prism	0	0–19 Open position/hole (wheel slot 1) 20–127 5 - facet linear prism - indexing (wheel slot 2) 128–135 Prism Macro 1 (wheel slot 3) 136–143 Prism Macro 2 (wheel slot 4) 144–151 Prism Macro 3 (wheel slot 5) 152–159 Prism Macro 4 (wheel slot 6) 160–167 Prism Macro 5 (wheel slot 7) 168–175 Prism Macro 6 (wheel slot 8) 176–183 Prism Macro 7 (wheel slot 9) 184–191 Prism Macro 8 (wheel slot 10) 192–199 Prism Macro 9 (wheel slot 11) 200–207 Prism Macro 10 (wheel slot 12) 208–215 Prism Macro 11 (wheel slot 13) 216–223 Prism Macro 12 (wheel slot 14) 224–231 Prism Macro 13 (wheel slot 15) 232–239 Prism Macro 14 (wheel slot 16) 240–247 Prism Macro 15 (wheel slot 17) 248–255 Prism Macro 16 (wheel slot 18)
37	Prism Rotation	128	0–0 No rotation 1–24 Fast to slow 1/7 25–49 Fast to slow 2/7 50–74 Fast to slow 3/7 75–99 Fast to slow 4/7 100–119 Fast to slow 5/7 120–124 Fast to slow 6/7 125–127 Fast to slow 7/7 128–128 No rotation middle 129–131 Slow to fast 1/7 132–136 Slow to fast 2/7 137–156 Slow to fast 3/7 157–181 Slow to fast 4/7 182–206 Slow to fast 5/7 207–232 Slow to fast 6/7 233–255 Slow to fast 7/7
38	Frost1	0	0–0 Open 1–179 Frost from 0% to 100% 180–189 100% frost 190–211 Pulse closing from slow to fast 212–233 Pulse opening from fast to slow 234–255 Ramping from fast to slow

Mode 3 - 7 colors (continued)

Ch	Function	Default	DMX values
39	Iris	0	0–179 Open 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
40	Iris Fine	0	Fine byte of Iris
41	Zoom	128	0–254 Zoom max 255–255 Zoom min
42	Zoom Fine	0	Fine byte of Zoom
43	Focus	128	0–254 Focus far 255–255 Focus near
44	Focus Fine	0	Fine byte of Focus
45	No Feature	0	
46	Shaper Rot	0	0–127 min 128–254 mid 255–255 max
47	Blade1A	0	
48	Blade1Rot	128	
49	Blade2A	0	
50	Blade2Rot	128	
51	Blade3A	0	
52	Blade3Rot	128	
53	Blade4A	0	
54	Blade4Rot	128	
55	Shaper Macros	0	
56	Shaper Macros Speed	128	

Mode 3 - 7 colors (continued)

Ch	Function	Default	DMX values
57	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
58	Dimmer	0	0–254 Closed 255–255 Open
59	Dimmer Fine	0	Fine byte of Dimmer