Black Light Design

Robe Robin Pointe



Manufacturer	**Black Light Design**
Type	**Moving head**
DMX modes	**3**
DMX footprint	**16, 24, 30 channels**
Beam angle	**2.5-20°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**280 × 376 × 202 mm**
GDTF fixture type	**FFFFEAB9-4B71-4440-ADA7-15...**

Controls

Focus · Frost · Prism · Prism rotation · Zoom · Colour wheel · Effect speed · Strobe · Dimmer · Pan and tilt · Movement speed · Gobos · Gobo rotation

Safety-relevant functions

Lamp on and off · Fixture reset

DMX modes

Mode 2 - Reduced 8bit	16 ch
Mode 1 - Standard 16bit	24 ch
Mode 3 - Extended 16bit	30 ch

Mode 2 - Reduced 8bit

16 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Tilt	128	
3	Position MSpeed	0	0–0 Standard mode 1–1 Max Speed Mode 2–254 Time from min to Max Speed from max to min 255–255 Min Speed Mode
4	Control1	0	0–9 No function 10–14 DMX input: Wired DMX 15–19 DMX input: Wireless DMX 20–24 Eco mode 25–29 Standard mode 30–34 High CRI (CRI=90+) 35–49 Standard CRI (CRI=80) 50–59 Pan/Tilt speed mode 60–69 Pan/Tilt time mode 70–79 Blackout while pan/tilt moving 80–89 Disabled blackout while pan/tilt moving 90–99 Blackout while color wheel moving 100–109 Disabled blackout while color wheel moving 110–119 Blackout while gobo wheel moving 120–129 Disabled blackout while gobo wheel moving 130–139 Lamp On 140–149 Pan/Tilt reset 150–159 Color system reset 160–169 Gobo wheels reset 170–179 Dimmer/Shutter reset 180–189 Zoom/Focus/Prism reset 190–199 NoFeature 13 200–209 Total reset 210–229 NoFeature 15 230–239 Lamp Off 240–244 RoboSpot enabled 245–249 RoboSpot disabled - except handle faders and pan... 250–255 RoboSpot fully disabled except pan/tilt

Mode 2 - Reduced 8bit (continued)

Ch	Function	Default	DMX values
5	Color Wheel	0	0–4 Open/White - Positioning (wheel slot 1) 5–13 Deep Red - Positioning (wheel slot 2) 14–22 Deep Blue - Positioning (wheel slot 3) 23–32 Yellow - Positioning (wheel slot 4) 33–41 Green - Positioning (wheel slot 5) 42–50 Magenta - Positioning (wheel slot 6) 51–59 Azure - Positioning (wheel slot 7) 60–68 Red - Positioning (wheel slot 8) 69–77 Dark green - Positioning (wheel slot 9) 78–86 Amber - Positioning (wheel slot 10) 87–96 Blue - Positioning (wheel slot 11) 97–105 Orange - Positioning (wheel slot 12) 106–114 CTO - Positioning (wheel slot 13) 115–124 UV (Kongo blue) - Positioning (wheel slot 14) 125–127 Open/White (1) - Positioning (wheel slot 1) 128–129 Open/White (2) - Positioning (wheel slot 1) 130–134 Deep Red - Indexing (wheel slot 2) 135–138 Deep Blue - Indexing (wheel slot 3) 139–143 Yellow - Indexing (wheel slot 4) 144–147 Green - Indexing (wheel slot 5) 148–152 Magenta - Indexing (wheel slot 6) 153–157 Azure - Indexing (wheel slot 7) 158–161 Red - Indexing (wheel slot 8) 162–166 Dark green - Indexing (wheel slot 9) 167–171 Amber - Indexing (wheel slot 10) 172–176 Blue - Indexing (wheel slot 11) 177–180 Orange - Indexing (wheel slot 12) 181–185 CTO - Indexing (wheel slot 13) 186–189 UV (Kongo blue) - Indexing (wheel slot 14) 190–191 Fast to slow 1/9 192–194 Fast to slow 2/9 195–197 Fast to slow 3/9 198–201 Fast to slow 4/9 202–204 Fast to slow 5/9 205–206 Fast to slow 6/9 207–209 Fast to slow 7/9 210–211 Fast to slow 8/9 212–215 Fast to slow 9/9 216–217 No rotation middle 218–220 Slow to fast 1/9 221–222 Slow to fast 2/9 223–225 Slow to fast 3/9 226–227 Slow to fast 4/9 228–231 Slow to fast 5/9 232–234 Slow to fast 6/9 235–237 Slow to fast 7/9 238–240 Slow to fast 8/9 241–243 Slow to fast 9/9 244–249 Random colour selection by audio control 250–254 fast 255–255 slow
6	Effect Speed	0	

Mode 2 - Reduced 8bit (continued)

Ch	Function	Default	DMX values
7	Gobo	0	0–3 Open/Hole (wheel slot 1) 4–9 Gobo 1 (wheel slot 2) 10–15 Gobo 2 (wheel slot 3) 16–21 Gobo 3 (wheel slot 4) 22–27 Gobo 4 (wheel slot 5) 28–33 Gobo 5 (wheel slot 6) 34–39 Gobo 6 (wheel slot 7) 40–45 Gobo 7 (wheel slot 8) 46–51 Gobo 8 (wheel slot 9) 52–57 Gobo 9 (wheel slot 10) 58–63 Gobo 10 (wheel slot 11) 64–69 Beam reducer 1 (wheel slot 12) 70–75 Beam reducer 2 (wheel slot 13) 76–81 Beam reducer 3 (wheel slot 14) 82–87 Beam reducer 4 (wheel slot 15) 88–95 Gobo 1 (wheel slot 2) 96–103 Gobo 2 (wheel slot 3) 104–111 Gobo 3 (wheel slot 4) 112–119 Gobo 4 (wheel slot 5) 120–127 Gobo 5 (wheel slot 6) 128–135 Gobo 6 (wheel slot 7) 136–143 Gobo 7 (wheel slot 8) 144–151 Gobo 8 (wheel slot 9) 152–159 Gobo 9 (wheel slot 10) 160–167 Gobo 10 (wheel slot 11) 168–175 Beam reducer 1 (wheel slot 12) 176–183 Beam reducer 2 (wheel slot 13) 184–191 Beam reducer 3 (wheel slot 14) 192–199 Beam reducer 4 (wheel slot 15) 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 7/8 219–221 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 250–250 Auto random gobo selection fast 251–254 Auto random gobo selection from fast to slow 255–255 Auto random gobo selection slow

Mode 2 - Reduced 8bit (continued)

Ch	Function	Default	DMX values
8	Gobo 2	0	0–0 Open/Hole (wheel slot 1) 1–4 Hole (flat field) (wheel slot 1) 5–7 Gobo 1 (wheel slot 2) 8–10 Gobo 2 (wheel slot 3) 11–13 Gobo 3 (wheel slot 4) 14–16 Gobo 4 (wheel slot 5) 17–19 Gobo 5 (wheel slot 6) 20–22 Gobo 6 (wheel slot 7) 23–25 Gobo 7 (wheel slot 8) 26–28 Gobo 8 (wheel slot 9) 29–31 Gobo 9 (wheel slot 10) 32–34 Gobo 1 - Rotation (wheel slot 2) 35–37 Gobo 2 - Rotation (wheel slot 3) 38–40 Gobo 3 - Rotation (wheel slot 4) 41–43 Gobo 4 - Rotation (wheel slot 5) 44–46 Gobo 5 - Rotation (wheel slot 6) 47–49 Gobo 6 - Rotation (wheel slot 7) 50–52 Gobo 7 - Rotation (wheel slot 8) 53–55 Gobo 8 - Rotation (wheel slot 9) 56–59 Gobo 9 - Rotation (wheel slot 10) 60–67 Gobo 1 - Shaking Index (wheel slot 1) 68–75 Gobo 2 - Shaking Index (wheel slot 2) 76–83 Gobo 3 - Shaking Index (wheel slot 3) 84–91 Gobo 4 - Shaking Index (wheel slot 4) 92–99 Gobo 5 - Shaking Index (wheel slot 5) 100–107 Gobo 6 - Shaking Index (wheel slot 6) 108–115 Gobo 7 - Shaking Index (wheel slot 7) 116–123 Gobo 8 - Shaking Index (wheel slot 8) 124–129 Gobo 9 - Shaking Index (wheel slot 9) 130–137 Gobo 1 - Shaking Rotation (wheel slot 1) 138–145 Gobo 2 - Shaking Rotation (wheel slot 2) 146–153 Gobo 3 - Shaking Rotation (wheel slot 3) 154–161 Gobo 4 - Shaking Rotation (wheel slot 4) 162–169 Gobo 5 - Shaking Rotation (wheel slot 5) 170–177 Gobo 6 - Shaking Rotation (wheel slot 6) 178–185 Gobo 7 - Shaking Rotation (wheel slot 7) 186–193 Gobo 8 - Shaking Rotation (wheel slot 8) 194–199 Gobo 9 - Shaking Rotation (wheel slot 9) 200–201 Open/Hole 202–202 Fast to slow 1/9 203–207 Fast to slow 2/9 208–211 Fast to slow 3/9 212–215 Fast to slow 4/9 216–216 Fast to slow 5/9 217–218 Fast to slow 6/9 219–219 Fast to slow 7/9 220–220 Fast to slow 8/9 221–222 Fast to slow 9/9 223–224 Slow to fast 1/9 225–225 Slow to fast 2/9 226–226 Slow to fast 3/9 227–228 Slow to fast 4/9 229–229 Slow to fast 5/9 230–233 Slow to fast 6/9 234–237 Slow to fast 7/9 238–242 Slow to fast 8/9 243–243 Slow to fast 9/9 244–249 Random gobo selection by audio control 250–250 Auto random gobo selection fast 251–254 Auto random gobo selection from fast to slow 255–255 Auto random gobo selection slow

Mode 2 - Reduced 8bit (continued)

Ch	Function	Default	DMX values
9	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
10	Prism	0	0–19 Open position (wheel slot 1) 20–49 Prism 1 - 6 - facet linear - Indexing (wheel slot 2) 50–75 Prism 1 - 6 - facet linear - Rotation (wheel slot 2) 76–105 Prism 2 - 8 - facet circular - Indexing (wheel slot 3) 106–127 Prism 2 - 8 - facet circular - Rotation (wheel slot 3) 128–135 Prism Macro 1 136–143 Prism Macro 2 144–151 Prism Macro 3 152–159 Prism Macro 4 160–167 Prism Macro 5 168–175 Prism Macro 6 176–183 Prism Macro 7 184–191 Prism Macro 8 192–199 Prism Macro 9 200–207 Prism Macro 10 208–215 Prism Macro 11 216–223 Prism Macro 12 224–231 Prism Macro 13 232–239 Prism Macro 14 240–247 Prism Macro 15 248–255 Prism Macro 16
11	Prism Rotation	128	
12	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
13	Zoom	128	
14	Focus	128	
15	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Strobe · str > 0.3–19.4 Hz 95–95 Strobe · str >>> 20 Hz 96–127 open 128–140 StrobePulseOpen · Slow to fast 1/7 0.1–0.42 Hz 141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz 144–155 StrobePulseClose · Fast to slow 1/7 0.5–0.207 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

Mode 2 - Reduced 8bit (continued)

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

Mode 1 - Standard 16bit

24 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	0–0 Standard mode 1–1 Max Speed Mode 2–254 Time from min to Max Speed from max to min 255–255 Min Speed Mode
6	Control1	0	0–9 No function 10–14 DMX input: Wired DMX 15–19 DMX input: Wireless DMX 20–24 Eco mode 25–29 Standard mode 30–34 High CRI (CRI=90+) 35–49 Standard CRI (CRI=80) 50–59 Pan/Tilt speed mode 60–69 Pan/Tilt time mode 70–79 Blackout while pan/tilt moving 80–89 Disabled blackout while pan/tilt moving 90–99 Blackout while color wheel moving 100–109 Disabled blackout while color wheel moving 110–119 Blackout while gobo wheel moving 120–129 Disabled blackout while gobo wheel moving 130–139 Lamp On 140–149 Pan/Tilt reset 150–159 Color system reset 160–169 Gobo wheels reset 170–179 Dimmer/Shutter reset 180–189 Zoom/Focus/Prism reset 190–199 NoFeature 13 200–209 Total reset 210–229 NoFeature 15 230–239 Lamp Off 240–244 RoboSpot enabled 245–249 RoboSpot disabled - except handle faders and pan... 250–255 RoboSpot fully disabled except pan/tilt

Mode 1 - Standard 16bit (continued)

Ch	Function	Default	DMX values
7	Color Wheel	0	0–3 Open/White - Positioning (wheel slot 1) 4–12 Deep Red - Positioning (wheel slot 2) 13–21 Deep Blue - Positioning (wheel slot 3) 22–31 Yellow - Positioning (wheel slot 4) 32–40 Green - Positioning (wheel slot 5) 41–49 Magenta - Positioning (wheel slot 6) 50–58 Azure - Positioning (wheel slot 7) 59–67 Red - Positioning (wheel slot 8) 68–76 Dark green - Positioning (wheel slot 9) 77–85 Amber - Positioning (wheel slot 10) 86–95 Blue - Positioning (wheel slot 11) 96–104 Orange - Positioning (wheel slot 12) 105–113 CTO - Positioning (wheel slot 13) 114–123 UV (Kongo blue) - Positioning (wheel slot 14) 124–127 Open/White - Positioning (wheel slot 1) 128–129 Open/White (1) - Positioning (wheel slot 1) 130–134 Deep Red - Indexing (wheel slot 2) 135–138 Deep Blue - Indexing (wheel slot 3) 139–143 Yellow - Indexing (wheel slot 4) 144–147 Green - Indexing (wheel slot 5) 148–152 Magenta - Indexing (wheel slot 6) 153–157 Azure - Indexing (wheel slot 7) 158–161 Red - Indexing (wheel slot 8) 162–166 Dark green - Indexing (wheel slot 9) 167–171 Amber - Indexing (wheel slot 10) 172–176 Blue - Indexing (wheel slot 11) 177–180 Orange - Indexing (wheel slot 12) 181–185 CTO - Indexing (wheel slot 13) 186–189 UV (Kongo blue) - Indexing (wheel slot 14) 190–214 spin <<< 215–215 spin < 216–217 spin >< 218–242 spin > 243–243 spin >>> 244–249 Random colour selection by audio control 250–254 fast 255–255 slow
8	Color Wheel Fine	0	Fine byte of Color Wheel
9	Effect Speed	0	

Mode 1 - Standard 16bit (continued)

Ch	Function	Default	DMX values
10	Gobo	0	0–3 Open/Hole (wheel slot 1) 4–9 Gobo 1 (wheel slot 2) 10–15 Gobo 2 (wheel slot 3) 16–21 Gobo 3 (wheel slot 4) 22–27 Gobo 4 (wheel slot 5) 28–33 Gobo 5 (wheel slot 6) 34–39 Gobo 6 (wheel slot 7) 40–45 Gobo 7 (wheel slot 8) 46–51 Gobo 8 (wheel slot 9) 52–57 Gobo 9 (wheel slot 10) 58–63 Gobo 10 (wheel slot 11) 64–69 Beam reducer 1 (wheel slot 12) 70–75 Beam reducer 2 (wheel slot 13) 76–81 Beam reducer 3 (wheel slot 14) 82–87 Beam reducer 4 (wheel slot 15) 88–95 Gobo 1 (wheel slot 2) 96–103 Gobo 2 (wheel slot 3) 104–111 Gobo 3 (wheel slot 4) 112–119 Gobo 4 (wheel slot 5) 120–127 Gobo 5 (wheel slot 6) 128–135 Gobo 6 (wheel slot 7) 136–143 Gobo 7 (wheel slot 8) 144–151 Gobo 8 (wheel slot 9) 152–159 Gobo 9 (wheel slot 10) 160–167 Gobo 10 (wheel slot 11) 168–175 Beam reducer 1 (wheel slot 12) 176–183 Beam reducer 2 (wheel slot 13) 184–191 Beam reducer 3 (wheel slot 14) 192–199 Beam reducer 4 (wheel slot 15) 200–201 Open/hole (wheel slot 1) 202–220 spin << 221–221 spin < 222–223 spin >< 224–242 spin > 243–243 spin >>> 244–249 Random gobo selection by audio control 250–250 Auto random gobo selection fast 251–254 Auto random gobo selection from fast to slow 255–255 Auto random gobo selection slow

Mode 1 - Standard 16bit (continued)

Ch	Function	Default	DMX values
11	Gobo 2	0	0–0 Open/Hole (wheel slot 1) 1–4 Hole (flat field) (wheel slot 1) 5–7 Gobo 1 (wheel slot 2) 8–10 Gobo 2 (wheel slot 3) 11–13 Gobo 3 (wheel slot 4) 14–16 Gobo 4 (wheel slot 5) 17–19 Gobo 5 (wheel slot 6) 20–22 Gobo 6 (wheel slot 7) 23–25 Gobo 7 (wheel slot 8) 26–28 Gobo 8 (wheel slot 9) 29–31 Gobo 9 (wheel slot 10) 32–34 Gobo 1 - Rotation (wheel slot 2) 35–37 Gobo 2 - Rotation (wheel slot 3) 38–40 Gobo 3 - Rotation (wheel slot 4) 41–43 Gobo 4 - Rotation (wheel slot 5) 44–46 Gobo 5 - Rotation (wheel slot 6) 47–49 Gobo 6 - Rotation (wheel slot 7) 50–52 Gobo 7 - Rotation (wheel slot 8) 53–55 Gobo 8 - Rotation (wheel slot 9) 56–59 Gobo 9 - Rotation (wheel slot 10) 60–67 Gobo 1 - Shaking Index (wheel slot 1) 68–75 Gobo 2 - Shaking Index (wheel slot 2) 76–83 Gobo 3 - Shaking Index (wheel slot 3) 84–91 Gobo 4 - Shaking Index (wheel slot 4) 92–99 Gobo 5 - Shaking Index (wheel slot 5) 100–107 Gobo 6 - Shaking Index (wheel slot 6) 108–115 Gobo 7 - Shaking Index (wheel slot 7) 116–123 Gobo 8 - Shaking Index (wheel slot 8) 124–129 Gobo 9 - Shaking Index (wheel slot 9) 130–137 Gobo 1 - Shaking Rotation (wheel slot 1) 138–145 Gobo 2 - Shaking Rotation (wheel slot 2) 146–153 Gobo 3 - Shaking Rotation (wheel slot 3) 154–161 Gobo 4 - Shaking Rotation (wheel slot 4) 162–169 Gobo 5 - Shaking Rotation (wheel slot 5) 170–177 Gobo 6 - Shaking Rotation (wheel slot 6) 178–185 Gobo 7 - Shaking Rotation (wheel slot 7) 186–193 Gobo 8 - Shaking Rotation (wheel slot 8) 194–199 Gobo 9 - Shaking Rotation (wheel slot 9) 200–201 Open/Hole 202–221 spin << 222–222 spin < 223–242 spin > 243–243 spin >>> 244–249 Random gobo selection by audio control 250–250 Auto random gobo selection fast 251–254 Auto random gobo selection from fast to slow 255–255 Auto random gobo selection slow
12	Gobo Rotation 2	128	0–0 min 2–62 << 63–121 < 122–127 < 128–129 center 130–190 > 191–254 >> 255–255 max
13	Gobo Rotation 2 Fine	0	Fine byte of Gobo Rotation 2

Mode 1 - Standard 16bit (continued)

Ch	Function	Default	DMX values
14	Prism	0	0–19 Open position (wheel slot 1) 20–49 Prism 1 - 6 - facet linear - Indexing (wheel slot 2) 50–75 Prism 1 - 6 - facet linear - Rotation (wheel slot 2) 76–105 Prism 2 - 8 - facet circular - Indexing (wheel slot 3) 106–127 Prism 2 - 8 - facet circular - Rotation (wheel slot 3) 128–135 Prism Macro 1 136–143 Prism Macro 2 144–151 Prism Macro 3 152–159 Prism Macro 4 160–167 Prism Macro 5 168–175 Prism Macro 6 176–183 Prism Macro 7 184–191 Prism Macro 8 192–199 Prism Macro 9 200–207 Prism Macro 10 208–215 Prism Macro 11 216–223 Prism Macro 12 224–231 Prism Macro 13 232–239 Prism Macro 14 240–247 Prism Macro 15 248–255 Prism Macro 16
15	Prism Rotation	128	
16	Frost1	0	0–188 Open 189–189 100% Frost 190–211 Frost1PulseClose 2 212–233 Frost1PulseOpen 3 234–255 Frost1Ramp 4
17	Zoom	128	
18	Zoom Fine	0	Fine byte of Zoom
19	Focus	128	
20	Focus Fine	128	Fine byte of Focus
21	Focus2	0	0–0 Autofocus Off 1–7 10 metres 8–15 15 metres 16–23 20 metres 24–31 25 metres 32–39 30 metres 40–47 35 metres 48–55 40 metres 56–63 45 metres 64–71 10 metres 72–79 20 metres 80–87 30 metres 88–95 40 metres 96–103 50 metres 104–111 60 metres 112–119 70 metres 120–126 80 metres 127–127 Infinity 128–255 NoFeature

Mode 1 - Standard 16bit (continued)

Ch	Function	Default	DMX values
22	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–78 Strobe · str > 0.3–9.2 Hz 79–94 Strobe · str >> 9.83–19.4 Hz 95–95 Strobe · str >>> 20 Hz 96–127 open 128–143 StrobePulseOpen 144–159 StrobePulseClose 160–191 open 192–204 StrobeRandom · rnd > 0.125–3.95 Hz 205–222 StrobeRandom · rnd >> 4.27–9.68 Hz 223–223 StrobeRandom · rnd >>> 10 Hz 224–255 open
23	Dimmer	0	0–254 Closed 255–255 Open
24	Dimmer Fine	0	Fine byte of Dimmer

Mode 3 - Extended 16bit

30 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 1–1 Max Speed Mode 2–254 Time from min to Max Speed from max to min 255–255 Min Speed Mode
6	Control1	0	0–9 No function 10–14 DMX input: Wired DMX 15–19 DMX input: Wireless DMX 20–24 Eco mode 25–29 Standard mode 30–34 High CRI (CRI=90+) 35–49 Standard CRI (CRI=80) 50–59 Pan/Tilt speed mode 60–69 Pan/Tilt time mode 70–79 Blackout while pan/tilt moving 80–89 Disabled blackout while pan/tilt moving 90–99 Blackout while color wheel moving 100–109 Disabled blackout while color wheel moving 110–119 Blackout while gobo wheel moving 120–129 Disabled blackout while gobo wheel moving 130–139 Lamp On 140–149 Pan/Tilt reset 150–159 Color system reset 160–169 Gobo wheels reset 170–179 Dimmer/Shutter reset 180–189 Zoom/Focus/Prism reset 190–199 NoFeature 13 200–209 Total reset 210–229 NoFeature 15 230–239 Lamp Off 240–244 RoboSpot enabled 245–249 RoboSpot disabled - except handle faders and pan... 250–255 RoboSpot fully disabled except pan/tilt

Mode 3 - Extended 16bit (continued)

Ch	Function	Default	DMX values
7	Color Wheel	0	0–3 Open/White - Positioning (wheel slot 1) 4–12 Deep Red - Positioning (wheel slot 2) 13–21 Deep Blue - Positioning (wheel slot 3) 22–31 Yellow - Positioning (wheel slot 4) 32–40 Green - Positioning (wheel slot 5) 41–49 Magenta - Positioning (wheel slot 6) 50–58 Azure - Positioning (wheel slot 7) 59–67 Red - Positioning (wheel slot 8) 68–76 Dark green - Positioning (wheel slot 9) 77–85 Amber - Positioning (wheel slot 10) 86–95 Blue - Positioning (wheel slot 11) 96–104 Orange - Positioning (wheel slot 12) 105–113 CTO - Positioning (wheel slot 13) 114–123 UV (Kongo blue) - Positioning (wheel slot 14) 124–127 Open/White - Positioning (wheel slot 1) 128–129 Open/White (1) - Positioning (wheel slot 1) 130–134 Deep Red - Indexing (wheel slot 2) 135–138 Deep Blue - Indexing (wheel slot 3) 139–143 Yellow - Indexing (wheel slot 4) 144–147 Green - Indexing (wheel slot 5) 148–152 Magenta - Indexing (wheel slot 6) 153–157 Azure - Indexing (wheel slot 7) 158–161 Red - Indexing (wheel slot 8) 162–166 Dark green - Indexing (wheel slot 9) 167–171 Amber - Indexing (wheel slot 10) 172–176 Blue - Indexing (wheel slot 11) 177–180 Orange - Indexing (wheel slot 12) 181–185 CTO - Indexing (wheel slot 13) 186–189 UV (Kongo blue) - Indexing (wheel slot 14) 190–191 Fast to slow 1/9 192–194 Fast to slow 2/9 195–197 Fast to slow 3/9 198–201 Fast to slow 4/9 202–204 Fast to slow 5/9 205–206 Fast to slow 6/9 207–209 Fast to slow 7/9 210–211 Fast to slow 8/9 212–215 Fast to slow 9/9 216–217 No rotation middle 218–220 Slow to fast 1/9 221–222 Slow to fast 2/9 223–225 Slow to fast 3/9 226–227 Slow to fast 4/9 228–231 Slow to fast 5/9 232–234 Slow to fast 6/9 235–237 Slow to fast 7/9 238–240 Slow to fast 8/9 241–243 Slow to fast 9/9 244–249 Random colour selection by audio control 250–254 fast 255–255 slow
8	Color Wheel Fine	0	Fine byte of Color Wheel
9	Effect Speed	0	
10	Frost1MSpeed	0	0–0 Function is off 1–255 Time of frost movement
11	Color Wheel Select MSpeed	0	0–0 Function is off 1–255 Time of color wheel movement
12	Gobo Wheel1MSpeed	0	0–0 Function is off 1–255 Time of static gobo wheel movement
13	Prism1MSpeed	0	0–0 Function is off 1–255 Time of prism rotation

Mode 3 - Extended 16bit (continued)

Ch	Function	Default	DMX values
14	Zoom MSpeed	0	0–0 Function is off 1–255 Time of zoom movement
15	Focus MSpeed	0	0–0 Function is off 1–255 Time of focus movement
16	Gobo	0	0–3 Open/Hole (wheel slot 1) 4–9 Gobo 1 (wheel slot 2) 10–15 Gobo 2 (wheel slot 3) 16–21 Gobo 3 (wheel slot 4) 22–27 Gobo 4 (wheel slot 5) 28–33 Gobo 5 (wheel slot 6) 34–39 Gobo 6 (wheel slot 7) 40–45 Gobo 7 (wheel slot 8) 46–51 Gobo 8 (wheel slot 9) 52–57 Gobo 9 (wheel slot 10) 58–63 Gobo 10 (wheel slot 11) 64–69 Beam reducer 1 (wheel slot 12) 70–75 Beam reducer 2 (wheel slot 13) 76–81 Beam reducer 3 (wheel slot 14) 82–87 Beam reducer 4 (wheel slot 15) 88–95 Gobo 1 (wheel slot 2) 96–103 Gobo 2 (wheel slot 3) 104–111 Gobo 3 (wheel slot 4) 112–119 Gobo 4 (wheel slot 5) 120–127 Gobo 5 (wheel slot 6) 128–135 Gobo 6 (wheel slot 7) 136–143 Gobo 7 (wheel slot 8) 144–151 Gobo 8 (wheel slot 9) 152–159 Gobo 9 (wheel slot 10) 160–167 Gobo 10 (wheel slot 11) 168–175 Beam reducer 1 (wheel slot 12) 176–183 Beam reducer 2 (wheel slot 13) 184–191 Beam reducer 3 (wheel slot 14) 192–199 Beam reducer 4 (wheel slot 15) 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 7/8 219–221 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 250–250 Auto random gobo selection fast 251–254 Auto random gobo selection from fast to slow 255–255 Auto random gobo selection slow

Mode 3 - Extended 16bit (continued)

Ch	Function	Default	DMX values
17	Gobo 2	0	0–0 Open/Hole (wheel slot 1) 1–4 Hole (flat field) (wheel slot 1) 5–7 Gobo 1 (wheel slot 2) 8–10 Gobo 2 (wheel slot 3) 11–13 Gobo 3 (wheel slot 4) 14–16 Gobo 4 (wheel slot 5) 17–19 Gobo 5 (wheel slot 6) 20–22 Gobo 6 (wheel slot 7) 23–25 Gobo 7 (wheel slot 8) 26–28 Gobo 8 (wheel slot 9) 29–31 Gobo 9 (wheel slot 10) 32–34 Gobo 1 - Rotation (wheel slot 2) 35–37 Gobo 2 - Rotation (wheel slot 3) 38–40 Gobo 3 - Rotation (wheel slot 4) 41–43 Gobo 4 - Rotation (wheel slot 5) 44–46 Gobo 5 - Rotation (wheel slot 6) 47–49 Gobo 6 - Rotation (wheel slot 7) 50–52 Gobo 7 - Rotation (wheel slot 8) 53–55 Gobo 8 - Rotation (wheel slot 9) 56–59 Gobo 9 - Rotation (wheel slot 10) 60–67 Gobo 1 - Shaking Index (wheel slot 1) 68–75 Gobo 2 - Shaking Index (wheel slot 2) 76–83 Gobo 3 - Shaking Index (wheel slot 3) 84–91 Gobo 4 - Shaking Index (wheel slot 4) 92–99 Gobo 5 - Shaking Index (wheel slot 5) 100–107 Gobo 6 - Shaking Index (wheel slot 6) 108–115 Gobo 7 - Shaking Index (wheel slot 7) 116–123 Gobo 8 - Shaking Index (wheel slot 8) 124–129 Gobo 9 - Shaking Index (wheel slot 9) 130–137 Gobo 1 - Shaking Rotation (wheel slot 1) 138–145 Gobo 2 - Shaking Rotation (wheel slot 2) 146–153 Gobo 3 - Shaking Rotation (wheel slot 3) 154–161 Gobo 4 - Shaking Rotation (wheel slot 4) 162–169 Gobo 5 - Shaking Rotation (wheel slot 5) 170–177 Gobo 6 - Shaking Rotation (wheel slot 6) 178–185 Gobo 7 - Shaking Rotation (wheel slot 7) 186–193 Gobo 8 - Shaking Rotation (wheel slot 8) 194–199 Gobo 9 - Shaking Rotation (wheel slot 9) 200–201 Open/Hole 202–202 Fast to slow 1/9 203–207 Fast to slow 2/9 208–211 Fast to slow 3/9 212–215 Fast to slow 4/9 216–216 Fast to slow 5/9 217–218 Fast to slow 6/9 219–219 Fast to slow 7/9 220–220 Fast to slow 8/9 221–222 Fast to slow 9/9 223–224 Slow to fast 1/9 225–225 Slow to fast 2/9 226–226 Slow to fast 3/9 227–228 Slow to fast 4/9 229–229 Slow to fast 5/9 230–233 Slow to fast 6/9 234–237 Slow to fast 7/9 238–242 Slow to fast 8/9 243–243 Slow to fast 9/9 244–249 Random gobo selection by audio control 250–250 Auto random gobo selection fast 251–254 Auto random gobo selection from fast to slow 255–255 Auto random gobo selection slow

Mode 3 - Extended 16bit (continued)

Ch	Function	Default	DMX values
18	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
19	Gobo Rotation 2 Fine	0	Fine byte of Gobo Rotation 2
20	Prism	0	0–19 Open position (wheel slot 1) 20–49 Prism 1 - 6 - facet linear - Indexing (wheel slot 2) 50–75 Prism 1 - 6 - facet linear - Rotation (wheel slot 2) 76–105 Prism 2 - 8 - facet circular - Indexing (wheel slot 3) 106–127 Prism 2 - 8 - facet circular - Rotation (wheel slot 3) 128–135 Prism Macro 1 136–143 Prism Macro 2 144–151 Prism Macro 3 152–159 Prism Macro 4 160–167 Prism Macro 5 168–175 Prism Macro 6 176–183 Prism Macro 7 184–191 Prism Macro 8 192–199 Prism Macro 9 200–207 Prism Macro 10 208–215 Prism Macro 11 216–223 Prism Macro 12 224–231 Prism Macro 13 232–239 Prism Macro 14 240–247 Prism Macro 15 248–255 Prism Macro 16
21	Prism Rotation	128	
22	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
23	Zoom	128	
24	Zoom Fine	0	Fine byte of Zoom
25	Focus	128	
26	Focus Fine	128	Fine byte of Focus

Mode 3 - Extended 16bit (continued)

Ch	Function	Default	DMX values
27	Focus2	0	0–0 Autofocus Off 1–7 10 metres 8–15 15 metres 16–23 20 metres 24–31 25 metres 32–39 30 metres 40–47 35 metres 48–55 40 metres 56–63 45 metres 64–71 10 metres 72–79 20 metres 80–87 30 metres 88–95 40 metres 96–103 50 metres 104–111 60 metres 112–119 70 metres 120–126 80 metres 127–127 Infinity 128–255 NoFeature
28	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Strobe · Slow to fast 1/12 0.3–19.4 Hz 95–95 Strobe · Slow to fast 11/12 20 Hz 96–127 open 128–140 StrobePulseOpen · Slow to fast 1/7 0.1–0.42 Hz 141–143 StrobePulseOpen · Slow to fast 7/7 0.447–0.5 Hz 144–155 StrobePulseClose · Fast to slow 1/7 0.5–0.207 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
29	Dimmer	0	0–254 Closed 255–255 Open
30	Dimmer Fine	0	Fine byte of Dimmer