Robe Lighting

Robin MMX Spot



Manufacturer	**Robe Lighting**
Type	**Moving head**
DMX modes	**4**
DMX footprint	**29, 31, 38, 40 channels**
Beam angle	**8.5-46.5°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**437 × 117 × 273 mm**
GDTF fixture type	**6AFC1642-ACD4-42BC-B53C-0E…**

Controls

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

Safety-relevant functions

Lamp on and off · Fixture reset

DMX modes

Mode 3 - 8 bit	29 ch
Mode 2 - Reduced	31 ch
Mode 1 - Standard	38 ch
Mode 4 - Extended	40 ch

Mode 3 - 8 bit

29 channels

Ch	Function	Default	DMX values
1	Pan	85	
2	Tilt	128	
3	Position MSpeed	0	0–0 Standard mode 1–1 Max Speed Mode 2–254 Speed/Time max to min 255–255 Min Speed Mode
4	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–29 NoFeature 1 30–34 Pan/Tilt acceleration high 35–39 Pan/Tilt acceleration compatible 40–44 Dimmer - Compatible curve 45–49 Dimmer - SYNC curve 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 colour wheels moving 100–109 Disabled blackout while colour wheels 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 Colour system reset 160–169 Gobo wheels reset 170–179 Dimmer/Shutter reset 180–189 Zoom/focus/frost/prism reset 190–199 Iris/dual graphic wheel reset 200–209 Total reset 210–229 NoFeature 2 230–239 Lamp Off 240–240 Disabled silent mode of fans 241–254 Fan noise min 255–255 Fan noise max
5	Color Wheel	0	0–8 Open/white - continual (wheel slot 1) 9–27 Deep red - continual (wheel slot 2) 28–46 Deep blue - continual (wheel slot 3) 47–63 Orange - continual (wheel slot 4) 64–82 Green - continual (wheel slot 5) 83–100 Amber - continual (wheel slot 6) 101–119 Congo blue (UV) - continual (wheel slot 7) 120–129 White - continual (wheel slot 1) 130–139 Deep red - step (wheel slot 2) 140–149 Deep blue - step (wheel slot 3) 150–159 Orange - step (wheel slot 4) 160–169 Green - step (wheel slot 5) 170–179 Amber - step (wheel slot 6) 180–189 Congo blue - step (wheel slot 7) 190–211 Fast to slow - Fast 212–215 Fast to slow - Slow 216–217 No rotation middle 218–240 Slow to fast - Slow 241–243 Slow to fast - Fast 244–249 Random colour selection by audio control 250–254 Fast 255–255 Slow
6	Cyan	0	
7	Magenta	0	
8	Yellow	0	

Mode 3 - 8 bit (continued)

Ch	Function	Default	DMX values
9	C TO	0	0–254 CTO 7000K 255–255 CTO 3200K
10	Color Macro1	0	0–7 No function 8–15 Colour Macro 1 16–23 Colour Macro 2 24–31 Colour Macro 3 32–39 Colour Macro 4 40–47 Colour Macro 5 48–55 Colour Macro 6 56–63 Colour Macro 7 64–71 Colour Macro 8 72–79 Colour Macro 9 80–87 Colour Macro 10 88–95 Colour Macro 11 96–103 Colour Macro 12 104–111 Colour Macro 13 112–119 Colour Macro 14 120–127 Colour Macro 15 128–135 Colour Macro 16 136–143 Colour Macro 17 144–151 Colour Macro 18 152–159 Colour Macro 19 160–167 Colour Macro 20 168–175 Colour Macro 21 176–183 Colour Macro 22 184–191 Colour Macro 23 192–199 Colour Macro 24 200–207 Colour Macro 25 208–215 Colour Macro 26 216–223 Colour Macro 27 224–231 Colour Macro 28 232–239 Colour Macro 29 240–243 Colour Macro 30 244–249 Random macro selection by audio control 250–255 Auto random macro selection from fast to slow
11	Gobo Wheel1MSpeed	0	
12	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 max (wheel slot 2) 170–170 Ramping from open to full min (wheel slot 2) 171–212 Ramping from open to half max (wheel slot 2) 213–213 Ramping from open to half min (wheel slot 2) 214–254 Ramping from half to full min (wheel slot 2) 255–255 Ramping from half to full max (wheel slot 2)
13	Animation Wheel1Pos	128	0–0 No rotation (wheel slot 2) 1–123 Fast to slow - Fast (wheel slot 2) 124–127 Fast to slow - Slow (wheel slot 2) 128–128 No rotation middle (wheel slot 2) 129–232 Slow to fast - Slow (wheel slot 2) 233–255 Slow to fast - Fast (wheel slot 2)
14	Animation Wheel2Pos	128	0–0 No rotation (wheel slot 3) 1–123 Fast to slow - Fast (wheel slot 3) 124–127 Fast to slow - Slow (wheel slot 3) 128–128 No rotation middle (wheel slot 3) 129–232 Slow to fast - Slow (wheel slot 3) 233–255 Slow to fast - Fast (wheel slot 3)
15	Animation Wheel2Macro	0	

Mode 3 - 8 bit (continued)

Ch	Function	Default	DMX values
16	Gobo	0	0–3 Open/hole (wheel slot 1) 4–7 Gobo 1 (wheel slot 2) 8–11 Gobo 2 (wheel slot 3) 12–15 Gobo 3 (wheel slot 4) 16–19 Gobo 4 (wheel slot 5) 20–23 Gobo 5 (wheel slot 6) 24–27 Gobo 6 (wheel slot 7) 28–31 Gobo 7 (wheel slot 8) 32–35 Gobo 1 - Rotation (wheel slot 2) 36–39 Gobo 2 - Rotation (wheel slot 3) 40–43 Gobo 3 - Rotation (wheel slot 4) 44–47 Gobo 4 - Rotation (wheel slot 5) 48–51 Gobo 5 - Rotation (wheel slot 6) 52–55 Gobo 6 - Rotation (wheel slot 7) 56–59 Gobo 7 - Rotation (wheel slot 8) 60–69 Gobo 1 - Shaking Index (wheel slot 2) 70–79 Gobo 2 - Shaking Index (wheel slot 3) 80–89 Gobo 3 - Shaking Index (wheel slot 4) 90–99 Gobo 4 - Shaking Index (wheel slot 5) 100–109 Gobo 5 - Shaking Index (wheel slot 6) 110–119 Gobo 6 - Shaking Index (wheel slot 7) 120–129 Gobo 7 - Shaking Index (wheel slot 8) 130–139 Gobo 1 - Shaking Rotation (wheel slot 2) 140–149 Gobo 2 - Shaking Rotation (wheel slot 3) 150–159 Gobo 3 - Shaking Rotation (wheel slot 4) 160–169 Gobo 4 - Shaking Rotation (wheel slot 5) 170–179 Gobo 5 - Shaking Rotation (wheel slot 6) 180–189 Gobo 6 - Shaking Rotation (wheel slot 7) 190–199 Gobo 7 - Shaking Rotation (wheel slot 8) 200–201 Open/hole (wheel slot 1) 202–218 Fast to slow - Fast 219–221 Fast to slow - Slow 222–223 No rotation middle 224–240 Slow to fast - Slow 241–243 Slow to fast - Fast 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
17	Gobo Rotation	128	0–0 Gobo indexing min 1–123 Fast to slow - Fast 124–127 Fast to slow - Slow 128–128 Gobo indexing center 129–231 Slow to fast - Slow 232–254 Slow to fast - Fast 255–255 Gobo indexing max

Mode 3 - 8 bit (continued)

Ch	Function	Default	DMX values
18	Gobo 2	0	0–3 Open/hole (wheel slot 1) 4–7 Gobo 1 (wheel slot 2) 8–11 Gobo 2 (wheel slot 3) 12–15 Gobo 3 (wheel slot 4) 16–19 Gobo 4 (wheel slot 5) 20–23 Gobo 5 (wheel slot 6) 24–27 Gobo 6 (wheel slot 7) 28–31 Gobo 7 (wheel slot 8) 32–35 Gobo 1 - Rotation (wheel slot 2) 36–39 Gobo 2 - Rotation (wheel slot 3) 40–43 Gobo 3 - Rotation (wheel slot 4) 44–47 Gobo 4 - Rotation (wheel slot 5) 48–51 Gobo 5 - Rotation (wheel slot 6) 52–55 Gobo 6 - Rotation (wheel slot 7) 56–59 Gobo 7 - Rotation (wheel slot 8) 60–69 Gobo 1 - Shaking Index (wheel slot 2) 70–79 Gobo 2 - Shaking Index (wheel slot 3) 80–89 Gobo 3 - Shaking Index (wheel slot 4) 90–99 Gobo 4 - Shaking Index (wheel slot 5) 100–109 Gobo 5 - Shaking Index (wheel slot 6) 110–119 Gobo 6 - Shaking Index (wheel slot 7) 120–129 Gobo 7 - Shaking Index (wheel slot 8) 130–139 Gobo 1 - Shaking Rotation (wheel slot 2) 140–149 Gobo 2 - Shaking Rotation (wheel slot 3) 150–159 Gobo 3 - Shaking Rotation (wheel slot 4) 160–169 Gobo 4 - Shaking Rotation (wheel slot 5) 170–179 Gobo 5 - Shaking Rotation (wheel slot 6) 180–189 Gobo 6 - Shaking Rotation (wheel slot 7) 190–199 Gobo 7 - Shaking Rotation (wheel slot 8) 200–201 Open/hole (wheel slot 1) 202–218 Fast to slow - Fast 219–221 Fast to slow - Slow 222–223 No rotation middle 224–240 Slow to fast - Slow 241–243 Slow to fast - Fast 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
19	Gobo Rotation 2	128	0–0 Gobo indexing min 1–123 Fast to slow - Fast 124–127 Fast to slow - Slow 128–128 Gobo indexing center 129–231 Slow to fast - Slow 232–254 Slow to fast - Fast 255–255 Gobo indexing max

Mode 3 - 8 bit (continued)

Ch	Function	Default	DMX values
20	Prism	0	0–19 Open position/hole (wheel slot 1) 20–127 linear prism - rotating (wheel slot 2) 128–135 Macro 1 136–143 Macro 2 144–151 Macro 3 152–159 Macro 4 160–167 Macro 5 168–175 Macro 6 176–183 Macro 7 184–191 Macro 8 192–199 Macro 9 200–207 Macro 10 208–215 Macro 11 216–223 Macro 12 224–231 Macro 13 232–239 Macro 14 240–247 Macro 15 248–255 Macro 16
21	Prism Rotation	128	0–0 No rotation 1–124 Fast to slow - Fast 125–127 Fast to slow - Slow 128–129 No rotation middle 130–232 Slow to fast - Slow 233–255 Slow to fast - Fast
22	Frost1	0	0–0 Open 1–50 Light Frost from 0% to 100% 51–53 100% Light Frost 54–63 Pulse closing from slow to fast - Light frost 64–73 Pulse opening from fast to slow - Light frost 74–83 Ramping from fast to slow - Light frost 84–86 Open 87–136 Medium Frost from 0% to 100% 137–139 100% Medium Frost 140–149 Pulse closing from slow to fast - Medium frost 150–159 Pulse opening from fast to slow - Medium frost 160–169 Ramping from fast to slow - Medium frost 170–172 Open 173–222 Combined Frost from 0% to 100% 223–225 100% Combined Frost 226–235 Pulse closing from slow to fast - Medium frost 236–245 Pulse opening from fast to slow - Medium frost 246–255 Ramping from fast to slow - Medium frost
23	Iris	0	0–179 Open 180–191 Closed 192–216 Slow to fast - Slow 217–219 Slow to fast - Fast 220–243 Fast to slow - Fast 244–247 Fast to slow - Slow 248–249 Random pulse opening fast 250–251 Random pulse opening slow 252–253 Random pulse closing fast 254–255 Random pulse closing slow
24	Zoom	128	0–254 Zoom max 255–255 Zoom min
25	Focus	0	

Mode 3 - 8 bit (continued)

Ch	Function	Default	DMX values
26	Focus1Adjust	0	0–0 Autofocus Off 1–7 4 metres (Iris) 8–15 7 metres (Iris) 16–23 10 metres (Iris) 24–31 15 metres (Iris) 32–39 20 metres (Iris) 40–55 30 metres (Iris) 56–63 40 metres (Iris) 64–71 4 metres (Gobo wheel 1) 72–79 7 metres (Gobo wheel 1) 80–87 10 metres (Gobo wheel 1) 88–95 15 metres (Gobo wheel 1) 96–103 20 metres (Gobo wheel 1) 104–111 30 metres (Gobo wheel 1) 112–119 40 metres (Gobo wheel 1) 120–127 50 metres (Gobo wheel 1) 128–135 4 metres (Gobo wheel 2) 136–143 7 metres (Gobo wheel 2) 144–151 10 metres (Gobo wheel 2) 152–159 15 metres (Gobo wheel 2) 160–167 20 metres (Gobo wheel 2) 168–175 30 metres (Gobo wheel 2) 176–183 40 metres (Gobo wheel 2) 184–191 50 metres (Gobo wheel 2) 192–199 4 metres (Graphic wheel) 200–207 7 metres (Graphic wheel) 208–215 10 metres (Graphic wheel) 216–223 15 metres (Graphic wheel) 224–231 20 metres (Graphic wheel) 232–239 30 metres (Graphic wheel) 240–247 40 metres (Graphic wheel) 248–254 50 metres (Graphic wheel) 255–255 infinity
27	Hot Spot	0	0–254 Max beam distribution intensity 255–255 min beam distribution intensity
28	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Strobe · Slow to fast - Slow 0.3–19.4 Hz 95–95 Strobe · Slow to fast - Fast 20 Hz 96–127 open 128–140 StrobePulseOpen · Slow to fast - Slow 0.1–0.42 Hz 141–143 StrobePulseOpen · Slow to fast - Fast 0.447–0.5 Hz 144–155 StrobePulseClose · Fast to slow - Fast 0.5–0.207 Hz 156–159 StrobePulseClose · Fast to slow - Slow 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
29	Dimmer	0	

Mode 2 - Reduced

31 channels

Ch	Function	Default	DMX values
1	Pan	85	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt

Mode 2 - Reduced (continued)

Ch	Function	Default	DMX values
5	Position MSpeed	0	0–0 Standard mode 1–1 Max Speed Mode 2–254 Speed/Time max to min 255–255 Min Speed Mode
6	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–29 NoFeature 1 30–34 Pan/Tilt acceleration high 35–39 Pan/Tilt acceleration compatible 40–44 Dimmer - Compatible curve 45–49 Dimmer - SYNC curve 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 colour wheels moving 100–109 Disabled blackout while colour wheels 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 Colour system reset 160–169 Gobo wheels reset 170–179 Dimmer/Shutter reset 180–189 Zoom/focus/frost/prism reset 190–199 Iris/dual graphic wheel reset 200–209 Total reset 210–229 NoFeature 2 230–239 Lamp Off 240–240 Disabled silent mode of fans 241–254 Fan noise min 255–255 Fan noise max
7	Color Wheel	0	0–8 Open/white - continual (wheel slot 1) 9–27 Deep red - continual (wheel slot 2) 28–46 Deep blue - continual (wheel slot 3) 47–63 Orange - continual (wheel slot 4) 64–82 Green - continual (wheel slot 5) 83–100 Amber - continual (wheel slot 6) 101–119 Congo blue (UV) - continual (wheel slot 7) 120–129 White - continual (wheel slot 1) 130–139 Deep red - step (wheel slot 2) 140–149 Deep blue - step (wheel slot 3) 150–159 Orange - step (wheel slot 4) 160–169 Green - step (wheel slot 5) 170–179 Amber - step (wheel slot 6) 180–189 Congo blue - step (wheel slot 7) 190–211 Fast to slow - Fast 212–215 Fast to slow - Slow 216–217 No rotation middle 218–240 Slow to fast - Slow 241–243 Slow to fast - Fast 244–249 Random colour selection by audio control 250–254 Fast 255–255 Slow
8	Cyan	0	
9	Magenta	0	
10	Yellow	0	
11	C TO	0	0–254 CTO 7000K 255–255 CTO 3200K

Mode 2 - Reduced (continued)

Ch	Function	Default	DMX values
12	Color Macro1	0	0–7 No function 8–15 Colour Macro 1 16–23 Colour Macro 2 24–31 Colour Macro 3 32–39 Colour Macro 4 40–47 Colour Macro 5 48–55 Colour Macro 6 56–63 Colour Macro 7 64–71 Colour Macro 8 72–79 Colour Macro 9 80–87 Colour Macro 10 88–95 Colour Macro 11 96–103 Colour Macro 12 104–111 Colour Macro 13 112–119 Colour Macro 14 120–127 Colour Macro 15 128–135 Colour Macro 16 136–143 Colour Macro 17 144–151 Colour Macro 18 152–159 Colour Macro 19 160–167 Colour Macro 20 168–175 Colour Macro 21 176–183 Colour Macro 22 184–191 Colour Macro 23 192–199 Colour Macro 24 200–207 Colour Macro 25 208–215 Colour Macro 26 216–223 Colour Macro 27 224–231 Colour Macro 28 232–239 Colour Macro 29 240–243 Colour Macro 30 244–249 Random macro selection by audio control 250–255 Auto random macro selection from fast to slow
13	Gobo Wheel1MSpeed	0	
14	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 max (wheel slot 2) 170–170 Ramping from open to full min (wheel slot 2) 171–212 Ramping from open to half max (wheel slot 2) 213–213 Ramping from open to half min (wheel slot 2) 214–254 Ramping from half to full min (wheel slot 2) 255–255 Ramping from half to full max (wheel slot 2)
15	Animation Wheel1Pos	128	0–0 No rotation (wheel slot 2) 1–123 Fast to slow - Fast (wheel slot 2) 124–127 Fast to slow - Slow (wheel slot 2) 128–128 No rotation middle (wheel slot 2) 129–232 Slow to fast - Slow (wheel slot 2) 233–255 Slow to fast - Fast (wheel slot 2)
16	Animation Wheel2Pos	128	0–0 No rotation (wheel slot 3) 1–123 Fast to slow - Fast (wheel slot 3) 124–127 Fast to slow - Slow (wheel slot 3) 128–128 No rotation middle (wheel slot 3) 129–232 Slow to fast - Slow (wheel slot 3) 233–255 Slow to fast - Fast (wheel slot 3)
17	Animation Wheel2Macro	0	

Mode 2 - Reduced (continued)

Ch	Function	Default	DMX values
18	Gobo	0	0–3 Open/hole (wheel slot 1) 4–7 Gobo 1 (wheel slot 2) 8–11 Gobo 2 (wheel slot 3) 12–15 Gobo 3 (wheel slot 4) 16–19 Gobo 4 (wheel slot 5) 20–23 Gobo 5 (wheel slot 6) 24–27 Gobo 6 (wheel slot 7) 28–31 Gobo 7 (wheel slot 8) 32–35 Gobo 1 - Rotation (wheel slot 2) 36–39 Gobo 2 - Rotation (wheel slot 3) 40–43 Gobo 3 - Rotation (wheel slot 4) 44–47 Gobo 4 - Rotation (wheel slot 5) 48–51 Gobo 5 - Rotation (wheel slot 6) 52–55 Gobo 6 - Rotation (wheel slot 7) 56–59 Gobo 7 - Rotation (wheel slot 8) 60–69 Gobo 1 - Shaking Index (wheel slot 2) 70–79 Gobo 2 - Shaking Index (wheel slot 3) 80–89 Gobo 3 - Shaking Index (wheel slot 4) 90–99 Gobo 4 - Shaking Index (wheel slot 5) 100–109 Gobo 5 - Shaking Index (wheel slot 6) 110–119 Gobo 6 - Shaking Index (wheel slot 7) 120–129 Gobo 7 - Shaking Index (wheel slot 8) 130–139 Gobo 1 - Shaking Rotation (wheel slot 2) 140–149 Gobo 2 - Shaking Rotation (wheel slot 3) 150–159 Gobo 3 - Shaking Rotation (wheel slot 4) 160–169 Gobo 4 - Shaking Rotation (wheel slot 5) 170–179 Gobo 5 - Shaking Rotation (wheel slot 6) 180–189 Gobo 6 - Shaking Rotation (wheel slot 7) 190–199 Gobo 7 - Shaking Rotation (wheel slot 8) 200–201 Open/hole (wheel slot 1) 202–218 Fast to slow - Fast 219–221 Fast to slow - Slow 222–223 No rotation middle 224–240 Slow to fast - Slow 241–243 Slow to fast - Fast 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
19	Gobo Rotation	128	0–0 Gobo indexing min 1–123 Fast to slow - Fast 124–127 Fast to slow - Slow 128–128 Gobo indexing center 129–231 Slow to fast - Slow 232–254 Slow to fast - Fast 255–255 Gobo indexing max

Mode 2 - Reduced (continued)

Ch	Function	Default	DMX values
20	Gobo 2	0	0–3 Open/hole (wheel slot 1) 4–7 Gobo 1 (wheel slot 2) 8–11 Gobo 2 (wheel slot 3) 12–15 Gobo 3 (wheel slot 4) 16–19 Gobo 4 (wheel slot 5) 20–23 Gobo 5 (wheel slot 6) 24–27 Gobo 6 (wheel slot 7) 28–31 Gobo 7 (wheel slot 8) 32–35 Gobo 1 - Rotation (wheel slot 2) 36–39 Gobo 2 - Rotation (wheel slot 3) 40–43 Gobo 3 - Rotation (wheel slot 4) 44–47 Gobo 4 - Rotation (wheel slot 5) 48–51 Gobo 5 - Rotation (wheel slot 6) 52–55 Gobo 6 - Rotation (wheel slot 7) 56–59 Gobo 7 - Rotation (wheel slot 8) 60–69 Gobo 1 - Shaking Index (wheel slot 2) 70–79 Gobo 2 - Shaking Index (wheel slot 3) 80–89 Gobo 3 - Shaking Index (wheel slot 4) 90–99 Gobo 4 - Shaking Index (wheel slot 5) 100–109 Gobo 5 - Shaking Index (wheel slot 6) 110–119 Gobo 6 - Shaking Index (wheel slot 7) 120–129 Gobo 7 - Shaking Index (wheel slot 8) 130–139 Gobo 1 - Shaking Rotation (wheel slot 2) 140–149 Gobo 2 - Shaking Rotation (wheel slot 3) 150–159 Gobo 3 - Shaking Rotation (wheel slot 4) 160–169 Gobo 4 - Shaking Rotation (wheel slot 5) 170–179 Gobo 5 - Shaking Rotation (wheel slot 6) 180–189 Gobo 6 - Shaking Rotation (wheel slot 7) 190–199 Gobo 7 - Shaking Rotation (wheel slot 8) 200–201 Open/hole (wheel slot 1) 202–218 Fast to slow - Fast 219–221 Fast to slow - Slow 222–223 No rotation middle 224–240 Slow to fast - Slow 241–243 Slow to fast - Fast 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
21	Gobo Rotation 2	128	0–0 Gobo indexing min 1–123 Fast to slow - Fast 124–127 Fast to slow - Slow 128–128 Gobo indexing center 129–231 Slow to fast - Slow 232–254 Slow to fast - Fast 255–255 Gobo indexing max

Mode 2 - Reduced (continued)

Ch	Function	Default	DMX values
22	Prism	0	0–19 Open position/hole (wheel slot 1) 20–127 linear prism - rotating (wheel slot 2) 128–135 Macro 1 136–143 Macro 2 144–151 Macro 3 152–159 Macro 4 160–167 Macro 5 168–175 Macro 6 176–183 Macro 7 184–191 Macro 8 192–199 Macro 9 200–207 Macro 10 208–215 Macro 11 216–223 Macro 12 224–231 Macro 13 232–239 Macro 14 240–247 Macro 15 248–255 Macro 16
23	Prism Rotation	128	0–0 No rotation 1–124 Fast to slow - Fast 125–127 Fast to slow - Slow 128–129 No rotation middle 130–232 Slow to fast - Slow 233–255 Slow to fast - Fast
24	Frost1	0	0–0 Open 1–50 Light Frost from 0% to 100% 51–53 100% Light Frost 54–63 Pulse closing from slow to fast - Light frost 64–73 Pulse opening from fast to slow - Light frost 74–83 Ramping from fast to slow - Light frost 84–86 Open 87–136 Medium Frost from 0% to 100% 137–139 100% Medium Frost 140–149 Pulse closing from slow to fast - Medium frost 150–159 Pulse opening from fast to slow - Medium frost 160–169 Ramping from fast to slow - Medium frost 170–172 Open 173–222 Combined Frost from 0% to 100% 223–225 100% Combined Frost 226–235 Pulse closing from slow to fast - Medium frost 236–245 Pulse opening from fast to slow - Medium frost 246–255 Ramping from fast to slow - Medium frost
25	Iris	0	0–179 Open 180–191 Closed 192–216 Slow to fast - Slow 217–219 Slow to fast - Fast 220–243 Fast to slow - Fast 244–247 Fast to slow - Slow 248–249 Random pulse opening fast 250–251 Random pulse opening slow 252–253 Random pulse closing fast 254–255 Random pulse closing slow
26	Zoom	128	0–254 Zoom max 255–255 Zoom min
27	Focus	0	

Mode 2 - Reduced (continued)

Ch	Function	Default	DMX values
28	Focus1Adjust	0	0–0 Autofocus Off 1–7 4 metres (Iris) 8–15 7 metres (Iris) 16–23 10 metres (Iris) 24–31 15 metres (Iris) 32–39 20 metres (Iris) 40–55 30 metres (Iris) 56–63 40 metres (Iris) 64–71 4 metres (Gobo wheel 1) 72–79 7 metres (Gobo wheel 1) 80–87 10 metres (Gobo wheel 1) 88–95 15 metres (Gobo wheel 1) 96–103 20 metres (Gobo wheel 1) 104–111 30 metres (Gobo wheel 1) 112–119 40 metres (Gobo wheel 1) 120–127 50 metres (Gobo wheel 1) 128–135 4 metres (Gobo wheel 2) 136–143 7 metres (Gobo wheel 2) 144–151 10 metres (Gobo wheel 2) 152–159 15 metres (Gobo wheel 2) 160–167 20 metres (Gobo wheel 2) 168–175 30 metres (Gobo wheel 2) 176–183 40 metres (Gobo wheel 2) 184–191 50 metres (Gobo wheel 2) 192–199 4 metres (Graphic wheel) 200–207 7 metres (Graphic wheel) 208–215 10 metres (Graphic wheel) 216–223 15 metres (Graphic wheel) 224–231 20 metres (Graphic wheel) 232–239 30 metres (Graphic wheel) 240–247 40 metres (Graphic wheel) 248–254 50 metres (Graphic wheel) 255–255 infinity
29	Hot Spot	0	0–254 Max beam distribution intensity 255–255 min beam distribution intensity
30	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Strobe · Slow to fast - Slow 0.3–19.4 Hz 95–95 Strobe · Slow to fast - Fast 20 Hz 96–127 open 128–140 StrobePulseOpen · Slow to fast - Slow 0.1–0.42 Hz 141–143 StrobePulseOpen · Slow to fast - Fast 0.447–0.5 Hz 144–155 StrobePulseClose · Fast to slow - Fast 0.5–0.207 Hz 156–159 StrobePulseClose · Fast to slow - Slow 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
31	Dimmer	0	

Mode 1 - Standard

38 channels

Ch	Function	Default	DMX values
1	Pan	85	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt

Mode 1 - Standard (continued)

Ch	Function	Default	DMX values
5	Position MSpeed	0	0–0 Standard mode 1–1 Max Speed Mode 2–254 Speed/Time max to min 255–255 Min Speed Mode
6	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–29 NoFeature 1 30–34 Pan/Tilt acceleration high 35–39 Pan/Tilt acceleration compatible 40–44 Dimmer - Compatible curve 45–49 Dimmer - SYNC curve 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 colour wheels moving 100–109 Disabled blackout while colour wheels 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 Colour system reset 160–169 Gobo wheels reset 170–179 Dimmer/Shutter reset 180–189 Zoom/focus/frost/prism reset 190–199 Iris/dual graphic wheel reset 200–209 Total reset 210–229 NoFeature 2 230–239 Lamp Off 240–240 Disabled silent mode of fans 241–254 Fan noise min 255–255 Fan noise max
7	Color Wheel	0	0–7 Open/white - continual (wheel slot 1) 8–26 Deep red - continual (wheel slot 2) 27–45 Deep blue - continual (wheel slot 3) 46–62 Orange - continual (wheel slot 4) 63–81 Green - continual (wheel slot 5) 82–98 Amber - continual (wheel slot 6) 99–119 Congo blue (UV) - continual (wheel slot 7) 120–129 White - continual (wheel slot 1) 130–139 Deep red - step (wheel slot 2) 140–149 Deep blue - step (wheel slot 3) 150–159 Orange - step (wheel slot 4) 160–169 Green - step (wheel slot 5) 170–179 Amber - step (wheel slot 6) 180–189 Congo blue - step (wheel slot 7) 190–211 Fast to slow - Fast 212–215 Fast to slow - Slow 216–217 No rotation middle 218–240 Slow to fast - Slow 241–243 Slow to fast - Fast 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	Cyan	0	
10	Magenta	0	
11	Yellow	0	

Mode 1 - Standard (continued)

Ch	Function	Default	DMX values
12	C TO	0	0–254 CTO 7000K 255–255 CTO 3200K
13	Color Macro1	0	0–7 No function 8–15 Colour Macro 1 16–23 Colour Macro 2 24–31 Colour Macro 3 32–39 Colour Macro 4 40–47 Colour Macro 5 48–55 Colour Macro 6 56–63 Colour Macro 7 64–71 Colour Macro 8 72–79 Colour Macro 9 80–87 Colour Macro 10 88–95 Colour Macro 11 96–103 Colour Macro 12 104–111 Colour Macro 13 112–119 Colour Macro 14 120–127 Colour Macro 15 128–135 Colour Macro 16 136–143 Colour Macro 17 144–151 Colour Macro 18 152–159 Colour Macro 19 160–167 Colour Macro 20 168–175 Colour Macro 21 176–183 Colour Macro 22 184–191 Colour Macro 23 192–199 Colour Macro 24 200–207 Colour Macro 25 208–215 Colour Macro 26 216–223 Colour Macro 27 224–231 Colour Macro 28 232–239 Colour Macro 29 240–243 Colour Macro 30 244–249 Random macro selection by audio control 250–255 Auto random macro selection from fast to slow
14	Gobo Wheel1MSpeed	0	
15	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 max (wheel slot 2) 170–170 Ramping from open to full min (wheel slot 2) 171–212 Ramping from open to half max (wheel slot 2) 213–213 Ramping from open to half min (wheel slot 2) 214–254 Ramping from half to full min (wheel slot 2) 255–255 Ramping from half to full max (wheel slot 2)
16	Animation Wheel1Pos	128	0–0 No rotation (wheel slot 2) 1–123 Fast to slow - Fast (wheel slot 2) 124–127 Fast to slow - Slow (wheel slot 2) 128–128 No rotation middle (wheel slot 2) 129–232 Slow to fast - Slow (wheel slot 2) 233–255 Slow to fast - Fast (wheel slot 2)
17	Animation Wheel2Pos	128	0–0 No rotation (wheel slot 3) 1–123 Fast to slow - Fast (wheel slot 3) 124–127 Fast to slow - Slow (wheel slot 3) 128–128 No rotation middle (wheel slot 3) 129–232 Slow to fast - Slow (wheel slot 3) 233–255 Slow to fast - Fast (wheel slot 3)
18	Animation Wheel2Macro	0	

Mode 1 - Standard (continued)

Ch	Function	Default	DMX values
19	Gobo	0	0–3 Open/hole (wheel slot 1) 4–7 Gobo 1 (wheel slot 2) 8–11 Gobo 2 (wheel slot 3) 12–15 Gobo 3 (wheel slot 4) 16–19 Gobo 4 (wheel slot 5) 20–23 Gobo 5 (wheel slot 6) 24–27 Gobo 6 (wheel slot 7) 28–31 Gobo 7 (wheel slot 8) 32–35 Gobo 1 - Rotation (wheel slot 2) 36–39 Gobo 2 - Rotation (wheel slot 3) 40–43 Gobo 3 - Rotation (wheel slot 4) 44–47 Gobo 4 - Rotation (wheel slot 5) 48–51 Gobo 5 - Rotation (wheel slot 6) 52–55 Gobo 6 - Rotation (wheel slot 7) 56–59 Gobo 7 - Rotation (wheel slot 8) 60–69 Gobo 1 - Shaking Index (wheel slot 2) 70–79 Gobo 2 - Shaking Index (wheel slot 3) 80–89 Gobo 3 - Shaking Index (wheel slot 4) 90–99 Gobo 4 - Shaking Index (wheel slot 5) 100–109 Gobo 5 - Shaking Index (wheel slot 6) 110–119 Gobo 6 - Shaking Index (wheel slot 7) 120–129 Gobo 7 - Shaking Index (wheel slot 8) 130–139 Gobo 1 - Shaking Rotation (wheel slot 2) 140–149 Gobo 2 - Shaking Rotation (wheel slot 3) 150–159 Gobo 3 - Shaking Rotation (wheel slot 4) 160–169 Gobo 4 - Shaking Rotation (wheel slot 5) 170–179 Gobo 5 - Shaking Rotation (wheel slot 6) 180–189 Gobo 6 - Shaking Rotation (wheel slot 7) 190–199 Gobo 7 - Shaking Rotation (wheel slot 8) 200–201 Open/hole (wheel slot 1) 202–218 Fast to slow - Fast 219–221 Fast to slow - Slow 222–223 No rotation middle 224–240 Slow to fast - Slow 241–243 Slow to fast - Fast 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
20	Gobo Rotation	128	0–0 Gobo indexing min 1–123 Fast to slow - Fast 124–127 Fast to slow - Slow 128–128 Gobo indexing center 129–231 Slow to fast - Slow 232–254 Slow to fast - Fast 255–255 Gobo indexing max
21	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

Mode 1 - Standard (continued)

Ch	Function	Default	DMX values
22	Gobo 2	0	0–3 Open/hole (wheel slot 1) 4–7 Gobo 1 (wheel slot 2) 8–11 Gobo 2 (wheel slot 3) 12–15 Gobo 3 (wheel slot 4) 16–19 Gobo 4 (wheel slot 5) 20–23 Gobo 5 (wheel slot 6) 24–27 Gobo 6 (wheel slot 7) 28–31 Gobo 7 (wheel slot 8) 32–35 Gobo 1 - Rotation (wheel slot 2) 36–39 Gobo 2 - Rotation (wheel slot 3) 40–43 Gobo 3 - Rotation (wheel slot 4) 44–47 Gobo 4 - Rotation (wheel slot 5) 48–51 Gobo 5 - Rotation (wheel slot 6) 52–55 Gobo 6 - Rotation (wheel slot 7) 56–59 Gobo 7 - Rotation (wheel slot 8) 60–69 Gobo 1 - Shaking Index (wheel slot 2) 70–79 Gobo 2 - Shaking Index (wheel slot 3) 80–89 Gobo 3 - Shaking Index (wheel slot 4) 90–99 Gobo 4 - Shaking Index (wheel slot 5) 100–109 Gobo 5 - Shaking Index (wheel slot 6) 110–119 Gobo 6 - Shaking Index (wheel slot 7) 120–129 Gobo 7 - Shaking Index (wheel slot 8) 130–139 Gobo 1 - Shaking Rotation (wheel slot 2) 140–149 Gobo 2 - Shaking Rotation (wheel slot 3) 150–159 Gobo 3 - Shaking Rotation (wheel slot 4) 160–169 Gobo 4 - Shaking Rotation (wheel slot 5) 170–179 Gobo 5 - Shaking Rotation (wheel slot 6) 180–189 Gobo 6 - Shaking Rotation (wheel slot 7) 190–199 Gobo 7 - Shaking Rotation (wheel slot 8) 200–201 Open/hole (wheel slot 1) 202–218 Fast to slow - Fast 219–221 Fast to slow - Slow 222–223 No rotation middle 224–240 Slow to fast - Slow 241–243 Slow to fast - Fast 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
23	Gobo Rotation 2	128	0–0 Gobo indexing min 1–123 Fast to slow - Fast 124–127 Fast to slow - Slow 128–128 Gobo indexing center 129–231 Slow to fast - Slow 232–254 Slow to fast - Fast 255–255 Gobo indexing max
24	Gobo Rotation 2 Fine	0	Fine byte of Gobo Rotation 2

Mode 1 - Standard (continued)

Ch	Function	Default	DMX values
25	Prism	0	0–19 Open position/hole (wheel slot 1) 20–127 linear prism - rotating (wheel slot 2) 128–135 Macro 1 136–143 Macro 2 144–151 Macro 3 152–159 Macro 4 160–167 Macro 5 168–175 Macro 6 176–183 Macro 7 184–191 Macro 8 192–199 Macro 9 200–207 Macro 10 208–215 Macro 11 216–223 Macro 12 224–231 Macro 13 232–239 Macro 14 240–247 Macro 15 248–255 Macro 16
26	Prism Rotation	128	0–0 No rotation 1–124 Fast to slow - Fast 125–127 Fast to slow - Slow 128–129 No rotation middle 130–232 Slow to fast - Slow 233–255 Slow to fast - Fast
27	Frost1	0	0–0 Open 1–50 Light Frost from 0% to 100% 51–53 100% Light Frost 54–63 Pulse closing from slow to fast - Light frost 64–73 Pulse opening from fast to slow - Light frost 74–83 Ramping from fast to slow - Light frost 84–86 Open 87–136 Medium Frost from 0% to 100% 137–139 100% Medium Frost 140–149 Pulse closing from slow to fast - Medium frost 150–159 Pulse opening from fast to slow - Medium frost 160–169 Ramping from fast to slow - Medium frost 170–172 Open 173–222 Combined Frost from 0% to 100% 223–225 100% Combined Frost 226–235 Pulse closing from slow to fast - Medium frost 236–245 Pulse opening from fast to slow - Medium frost 246–255 Ramping from fast to slow - Medium frost
28	Iris	0	0–179 Open 180–191 Closed 192–216 Slow to fast - Slow 217–219 Slow to fast - Fast 220–243 Fast to slow - Fast 244–247 Fast to slow - Slow 248–249 Random pulse opening fast 250–251 Random pulse opening slow 252–253 Random pulse closing fast 254–255 Random pulse closing slow
29	Iris Fine	0	Fine byte of Iris
30	Zoom	128	0–254 Zoom max 255–255 Zoom min
31	Zoom Fine	0	Fine byte of Zoom
32	Focus	0	
33	Focus Fine	0	Fine byte of Focus

Mode 1 - Standard (continued)

Ch	Function	Default	DMX values
34	Focus1Adjust	0	0–0 Autofocus Off 1–7 4 metres (Iris) 8–15 7 metres (Iris) 16–23 10 metres (Iris) 24–31 15 metres (Iris) 32–39 20 metres (Iris) 40–55 30 metres (Iris) 56–63 40 metres (Iris) 64–71 4 metres (Gobo wheel 1) 72–79 7 metres (Gobo wheel 1) 80–87 10 metres (Gobo wheel 1) 88–95 15 metres (Gobo wheel 1) 96–103 20 metres (Gobo wheel 1) 104–111 30 metres (Gobo wheel 1) 112–119 40 metres (Gobo wheel 1) 120–127 50 metres (Gobo wheel 1) 128–135 4 metres (Gobo wheel 2) 136–143 7 metres (Gobo wheel 2) 144–151 10 metres (Gobo wheel 2) 152–159 15 metres (Gobo wheel 2) 160–167 20 metres (Gobo wheel 2) 168–175 30 metres (Gobo wheel 2) 176–183 40 metres (Gobo wheel 2) 184–191 50 metres (Gobo wheel 2) 192–199 4 metres (Graphic wheel) 200–207 7 metres (Graphic wheel) 208–215 10 metres (Graphic wheel) 216–223 15 metres (Graphic wheel) 224–231 20 metres (Graphic wheel) 232–239 30 metres (Graphic wheel) 240–247 40 metres (Graphic wheel) 248–254 50 metres (Graphic wheel) 255–255 infinity
35	Hot Spot	0	0–254 Max beam distribution intensity 255–255 min beam distribution intensity
36	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Strobe · Slow to fast - Slow 0.3–19.4 Hz 95–95 Strobe · Slow to fast - Fast 20 Hz 96–127 open 128–140 StrobePulseOpen · Slow to fast - Slow 0.1–0.42 Hz 141–143 StrobePulseOpen · Slow to fast - Fast 0.447–0.5 Hz 144–155 StrobePulseClose · Fast to slow - Fast 0.5–0.207 Hz 156–159 StrobePulseClose · Fast to slow - Slow 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
37	Dimmer	0	
38	Dimmer Fine	0	Fine byte of Dimmer

Mode 4 - Extended

40 channels

Ch	Function	Default	DMX values
1	Pan	85	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt

Mode 4 - Extended (continued)

Ch	Function	Default	DMX values
5	Position MSpeed	0	0–0 Standard mode 1–1 Max Speed Mode 2–254 Speed/Time max to min 255–255 Min Speed Mode
6	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–29 NoFeature 1 30–34 Pan/Tilt acceleration high 35–39 Pan/Tilt acceleration compatible 40–44 Dimmer - Compatible curve 45–49 Dimmer - SYNC curve 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 colour wheels moving 100–109 Disabled blackout while colour wheels 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 Colour system reset 160–169 Gobo wheels reset 170–179 Dimmer/Shutter reset 180–189 Zoom/focus/frost/prism reset 190–199 Iris/dual graphic wheel reset 200–209 Total reset 210–229 NoFeature 2 230–239 Lamp Off 240–240 Disabled silent mode of fans 241–254 Fan noise min 255–255 Fan noise max
7	Color Wheel	0	0–7 Open/white - continual (wheel slot 1) 8–26 Deep red - continual (wheel slot 2) 27–45 Deep blue - continual (wheel slot 3) 46–62 Orange - continual (wheel slot 4) 63–81 Green - continual (wheel slot 5) 82–98 Amber - continual (wheel slot 6) 99–119 Congo blue (UV) - continual (wheel slot 7) 120–129 White - continual (wheel slot 1) 130–139 Deep red - step (wheel slot 2) 140–149 Deep blue - step (wheel slot 3) 150–159 Orange - step (wheel slot 4) 160–169 Green - step (wheel slot 5) 170–179 Amber - step (wheel slot 6) 180–189 Congo blue - step (wheel slot 7) 190–211 Fast to slow - Fast 212–215 Fast to slow - Slow 216–217 No rotation middle 218–240 Slow to fast - Slow 241–243 Slow to fast - Fast 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	Cyan	0	
10	Magenta	0	
11	Yellow	0	

Mode 4 - Extended (continued)

Ch	Function	Default	DMX values
12	C TO	0	0–254 CTO 7000K 255–255 CTO 3200K
13	Color Macro1	0	0–7 No function 8–15 Colour Macro 1 16–23 Colour Macro 2 24–31 Colour Macro 3 32–39 Colour Macro 4 40–47 Colour Macro 5 48–55 Colour Macro 6 56–63 Colour Macro 7 64–71 Colour Macro 8 72–79 Colour Macro 9 80–87 Colour Macro 10 88–95 Colour Macro 11 96–103 Colour Macro 12 104–111 Colour Macro 13 112–119 Colour Macro 14 120–127 Colour Macro 15 128–135 Colour Macro 16 136–143 Colour Macro 17 144–151 Colour Macro 18 152–159 Colour Macro 19 160–167 Colour Macro 20 168–175 Colour Macro 21 176–183 Colour Macro 22 184–191 Colour Macro 23 192–199 Colour Macro 24 200–207 Colour Macro 25 208–215 Colour Macro 26 216–223 Colour Macro 27 224–231 Colour Macro 28 232–239 Colour Macro 29 240–243 Colour Macro 30 244–249 Random macro selection by audio control 250–255 Auto random macro selection from fast to slow
14	Gobo Wheel1MSpeed	0	
15	Color Mix MSpeed	0	0–0 Function OFF 1–254 max 255–255 min
16	Zoom MSpeed	0	0–0 Function OFF 1–254 max 255–255 min
17	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 max (wheel slot 2) 170–170 Ramping from open to full min (wheel slot 2) 171–212 Ramping from open to half max (wheel slot 2) 213–213 Ramping from open to half min (wheel slot 2) 214–254 Ramping from half to full min (wheel slot 2) 255–255 Ramping from half to full max (wheel slot 2)
18	Animation Wheel1Pos	128	0–0 No rotation (wheel slot 2) 1–123 Fast to slow - Fast (wheel slot 2) 124–127 Fast to slow - Slow (wheel slot 2) 128–128 No rotation middle (wheel slot 2) 129–232 Slow to fast - Slow (wheel slot 2) 233–255 Slow to fast - Fast (wheel slot 2)

Mode 4 - Extended (continued)

Ch	Function	Default	DMX values
19	Animation Wheel2Pos	128	0–0 No rotation (wheel slot 3) 1–123 Fast to slow - Fast (wheel slot 3) 124–127 Fast to slow - Slow (wheel slot 3) 128–128 No rotation middle (wheel slot 3) 129–232 Slow to fast - Slow (wheel slot 3) 233–255 Slow to fast - Fast (wheel slot 3)
20	Animation Wheel2Macro	0	
21	Gobo	0	0–3 Open/hole (wheel slot 1) 4–7 Gobo 1 (wheel slot 2) 8–11 Gobo 2 (wheel slot 3) 12–15 Gobo 3 (wheel slot 4) 16–19 Gobo 4 (wheel slot 5) 20–23 Gobo 5 (wheel slot 6) 24–27 Gobo 6 (wheel slot 7) 28–31 Gobo 7 (wheel slot 8) 32–35 Gobo 1 - Rotation (wheel slot 2) 36–39 Gobo 2 - Rotation (wheel slot 3) 40–43 Gobo 3 - Rotation (wheel slot 4) 44–47 Gobo 4 - Rotation (wheel slot 5) 48–51 Gobo 5 - Rotation (wheel slot 6) 52–55 Gobo 6 - Rotation (wheel slot 7) 56–59 Gobo 7 - Rotation (wheel slot 8) 60–69 Gobo 1 - Shaking Index (wheel slot 2) 70–79 Gobo 2 - Shaking Index (wheel slot 3) 80–89 Gobo 3 - Shaking Index (wheel slot 4) 90–99 Gobo 4 - Shaking Index (wheel slot 5) 100–109 Gobo 5 - Shaking Index (wheel slot 6) 110–119 Gobo 6 - Shaking Index (wheel slot 7) 120–129 Gobo 7 - Shaking Index (wheel slot 8) 130–139 Gobo 1 - Shaking Rotation (wheel slot 2) 140–149 Gobo 2 - Shaking Rotation (wheel slot 3) 150–159 Gobo 3 - Shaking Rotation (wheel slot 4) 160–169 Gobo 4 - Shaking Rotation (wheel slot 5) 170–179 Gobo 5 - Shaking Rotation (wheel slot 6) 180–189 Gobo 6 - Shaking Rotation (wheel slot 7) 190–199 Gobo 7 - Shaking Rotation (wheel slot 8) 200–201 Open/hole (wheel slot 1) 202–218 Fast to slow - Fast 219–221 Fast to slow - Slow 222–223 No rotation middle 224–240 Slow to fast - Slow 241–243 Slow to fast - Fast 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
22	Gobo Rotation	128	0–0 Gobo indexing min 1–123 Fast to slow - Fast 124–127 Fast to slow - Slow 128–128 Gobo indexing center 129–231 Slow to fast - Slow 232–254 Slow to fast - Fast 255–255 Gobo indexing max
23	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

Mode 4 - Extended (continued)

Ch	Function	Default	DMX values
24	Gobo 2	0	0–3 Open/hole (wheel slot 1) 4–7 Gobo 1 (wheel slot 2) 8–11 Gobo 2 (wheel slot 3) 12–15 Gobo 3 (wheel slot 4) 16–19 Gobo 4 (wheel slot 5) 20–23 Gobo 5 (wheel slot 6) 24–27 Gobo 6 (wheel slot 7) 28–31 Gobo 7 (wheel slot 8) 32–35 Gobo 1 - Rotation (wheel slot 2) 36–39 Gobo 2 - Rotation (wheel slot 3) 40–43 Gobo 3 - Rotation (wheel slot 4) 44–47 Gobo 4 - Rotation (wheel slot 5) 48–51 Gobo 5 - Rotation (wheel slot 6) 52–55 Gobo 6 - Rotation (wheel slot 7) 56–59 Gobo 7 - Rotation (wheel slot 8) 60–69 Gobo 1 - Shaking Index (wheel slot 2) 70–79 Gobo 2 - Shaking Index (wheel slot 3) 80–89 Gobo 3 - Shaking Index (wheel slot 4) 90–99 Gobo 4 - Shaking Index (wheel slot 5) 100–109 Gobo 5 - Shaking Index (wheel slot 6) 110–119 Gobo 6 - Shaking Index (wheel slot 7) 120–129 Gobo 7 - Shaking Index (wheel slot 8) 130–139 Gobo 1 - Shaking Rotation (wheel slot 2) 140–149 Gobo 2 - Shaking Rotation (wheel slot 3) 150–159 Gobo 3 - Shaking Rotation (wheel slot 4) 160–169 Gobo 4 - Shaking Rotation (wheel slot 5) 170–179 Gobo 5 - Shaking Rotation (wheel slot 6) 180–189 Gobo 6 - Shaking Rotation (wheel slot 7) 190–199 Gobo 7 - Shaking Rotation (wheel slot 8) 200–201 Open/hole (wheel slot 1) 202–218 Fast to slow - Fast 219–221 Fast to slow - Slow 222–223 No rotation middle 224–240 Slow to fast - Slow 241–243 Slow to fast - Fast 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
25	Gobo Rotation 2	128	0–0 Gobo indexing min 1–123 Fast to slow - Fast 124–127 Fast to slow - Slow 128–128 Gobo indexing center 129–231 Slow to fast - Slow 232–254 Slow to fast - Fast 255–255 Gobo indexing max
26	Gobo Rotation 2 Fine	0	Fine byte of Gobo Rotation 2

Mode 4 - Extended (continued)

Ch	Function	Default	DMX values
27	Prism	0	0–19 Open position/hole (wheel slot 1) 20–127 linear prism - rotating (wheel slot 2) 128–135 Macro 1 136–143 Macro 2 144–151 Macro 3 152–159 Macro 4 160–167 Macro 5 168–175 Macro 6 176–183 Macro 7 184–191 Macro 8 192–199 Macro 9 200–207 Macro 10 208–215 Macro 11 216–223 Macro 12 224–231 Macro 13 232–239 Macro 14 240–247 Macro 15 248–255 Macro 16
28	Prism Rotation	128	0–0 No rotation 1–124 Fast to slow - Fast 125–127 Fast to slow - Slow 128–129 No rotation middle 130–232 Slow to fast - Slow 233–255 Slow to fast - Fast
29	Frost1	0	0–0 Open 1–50 Light Frost from 0% to 100% 51–53 100% Light Frost 54–63 Pulse closing from slow to fast - Light frost 64–73 Pulse opening from fast to slow - Light frost 74–83 Ramping from fast to slow - Light frost 84–86 Open 87–136 Medium Frost from 0% to 100% 137–139 100% Medium Frost 140–149 Pulse closing from slow to fast - Medium frost 150–159 Pulse opening from fast to slow - Medium frost 160–169 Ramping from fast to slow - Medium frost 170–172 Open 173–222 Combined Frost from 0% to 100% 223–225 100% Combined Frost 226–235 Pulse closing from slow to fast - Medium frost 236–245 Pulse opening from fast to slow - Medium frost 246–255 Ramping from fast to slow - Medium frost
30	Iris	0	0–179 Open 180–191 Closed 192–216 Slow to fast - Slow 217–219 Slow to fast - Fast 220–243 Fast to slow - Fast 244–247 Fast to slow - Slow 248–249 Random pulse opening fast 250–251 Random pulse opening slow 252–253 Random pulse closing fast 254–255 Random pulse closing slow
31	Iris Fine	0	Fine byte of Iris
32	Zoom	128	0–254 Zoom max 255–255 Zoom min
33	Zoom Fine	0	Fine byte of Zoom
34	Focus	0	
35	Focus Fine	0	Fine byte of Focus

Mode 4 - Extended (continued)

Ch	Function	Default	DMX values
36	Focus1Adjust	0	0–0 Autofocus Off 1–7 4 metres (Iris) 8–15 7 metres (Iris) 16–23 10 metres (Iris) 24–31 15 metres (Iris) 32–39 20 metres (Iris) 40–55 30 metres (Iris) 56–63 40 metres (Iris) 64–71 4 metres (Gobo wheel 1) 72–79 7 metres (Gobo wheel 1) 80–87 10 metres (Gobo wheel 1) 88–95 15 metres (Gobo wheel 1) 96–103 20 metres (Gobo wheel 1) 104–111 30 metres (Gobo wheel 1) 112–119 40 metres (Gobo wheel 1) 120–127 50 metres (Gobo wheel 1) 128–135 4 metres (Gobo wheel 2) 136–143 7 metres (Gobo wheel 2) 144–151 10 metres (Gobo wheel 2) 152–159 15 metres (Gobo wheel 2) 160–167 20 metres (Gobo wheel 2) 168–175 30 metres (Gobo wheel 2) 176–183 40 metres (Gobo wheel 2) 184–191 50 metres (Gobo wheel 2) 192–199 4 metres (Graphic wheel) 200–207 7 metres (Graphic wheel) 208–215 10 metres (Graphic wheel) 216–223 15 metres (Graphic wheel) 224–231 20 metres (Graphic wheel) 232–239 30 metres (Graphic wheel) 240–247 40 metres (Graphic wheel) 248–254 50 metres (Graphic wheel) 255–255 infinity
37	Hot Spot	0	0–254 Max beam distribution intensity 255–255 min beam distribution intensity
38	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Strobe · Slow to fast - Slow 0.3–19.4 Hz 95–95 Strobe · Slow to fast - Fast 20 Hz 96–127 open 128–140 StrobePulseOpen · Slow to fast - Slow 0.1–0.42 Hz 141–143 StrobePulseOpen · Slow to fast - Fast 0.447–0.5 Hz 144–155 StrobePulseClose · Fast to slow - Fast 0.5–0.207 Hz 156–159 StrobePulseClose · Fast to slow - Slow 0.18–0.1 Hz 160–191 open 192–223 Random strobe from slow to fast 224–255 open
39	Dimmer	0	
40	Dimmer Fine	0	Fine byte of Dimmer

Fixture model: gdtf-robe-lighting-robin-mmx-spot-116862
Creator: HitLight
Modifications: Made in-house by HitLight: procedural geometry from .context/catalog-fixes/20261104/housings/build.ts (hitlight-authored-hous...