Robe Lighting

Robin Spikie



Manufacturer	**Robe Lighting**
Type	**Moving head**
DMX modes	**2**
DMX footprint	**21, 27 channels**
Beam angle	**4-28°**
Pan range	**540°**
Tilt range	**360°**
Size (W × H × D)	**176 × 226 × 174 mm**
GDTF fixture type	**848AA5F9-E4C8-49F7-83BE-49…**

Controls

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

Safety-relevant functions

Fixture reset · Service functions · Built-in effect programmes

DMX modes

Mode 2 Reduced 8-bit	21 ch
Mode 1 Standard 16-bit	27 ch

Mode 2 Reduced 8-bit

21 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	Pan Rotate	0	0–0 Pan range 540Deg shortcut Off 1–1 Pan range 360Deg shortcut On 2–127 No function (Pan range 540Deg shortcut Off) 128–188 Forwards - Fast 189–189 Forwards - Slow 190–193 No rotation middle 194–254 Backwards - Slow 255–255 Backwards - Fast
6	Tilt Rotate	0	0–0 Tilt range 360Deg Shortcut Off 1–1 Tilt range 360Deg Shortcut On 2–127 No function (Tilt range 360Deg Shortcut Off) 128–188 Forwards - Fast 189–189 Forwards - Slow 190–193 No rotation middle 194–254 Backwards - Slow 255–255 Backwards - Fast
7	Position MSpeed	0	0–0 Standard mode 1–254 Max 255–255 Min

Mode 2 Reduced 8-bit (continued)

Ch	Function	Default	DMX values
8	Control1	0	0–19 No feature 20–24 Graphic display On 25–29 Graphic display Off 30–34 RGBW colour mixing mode 35–39 CMY colour mixing mode 40–44 Pan/Tilt speed mode 45–49 Pan/Tilt time mode 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–64 Dimmer curve Square law 65–69 Dimmer curve Linear 70–74 Fans mode: Auto 75–79 Fans mode: High 80–84 White point 8000K On 85–89 White point 8000K Off 90–129 NoFeature 9 130–139 Fixture reset (except pan/tilt) 140–149 Pan/Tilt reset 150–159 Zoom reset 160–169 Flower effect/Prism/Frost reset 170–171 Tungsten effect simulation (750W) On 172–173 Tungsten effect simulation (1000W) On 174–175 Tungsten effect simulation (1200W) On 176–177 Tungsten effect simulation (2000W) On 178–179 Tungsten effect simulation (2500W) On 180–181 Tungsten effect simulation Off 182–183 NoFeature 15 185–185 Standard 300Hz 186–186 High 600Hz 187–187 LED frequency (step -6) 188–188 LED frequency (step -5) 189–189 LED frequency (step -4) 190–190 LED frequency (step -3) 191–191 LED frequency (step -2) 192–192 LED frequency (step -1) 193–193 LED frequency (Standard or High) 194–194 LED frequency (step +1) 195–195 LED frequency (step +2) 196–196 LED frequency (step +3) 197–197 LED frequency (step +4) 198–198 LED frequency (step +5) 199–199 LED frequency (step +6) 200–209 Total fixture reset 210–255 Gobo rest

Mode 2 Reduced 8-bit (continued)

Ch	Function	Default	DMX values
9	Color Wheel	0	0–0 No function (wheel slot 1) 1–2 Filter 4 (Medium Bastard Amber) (wheel slot 2) 3–4 Filter 25 (Sunset Red) (wheel slot 3) 5–6 Filter 19 (Fire) (wheel slot 4) 7–8 Filter 26 (Bright Red) (wheel slot 5) 9–10 Filter 58 (Lavender) (wheel slot 6) 11–12 Filter 68 (Sky Blue) (wheel slot 7) 13–14 Filter 36 (Medium Pink) (wheel slot 8) 15–16 Filter 89 (Moss Green) (wheel slot 9) 17–18 Filter 88 (Lime Green) (wheel slot 10) 19–20 Filter 90 (Dark Yellow Green) (wheel slot 11) 21–22 Filter 49 (Medium Purple) (wheel slot 12) 23–24 Filter 52 (Light Lavender) (wheel slot 13) 25–26 Filter 102 (Light Amber) (wheel slot 14) 27–28 Filter 103 (Straw) (wheel slot 15) 29–30 Filter 140 (Summer Blue) (wheel slot 16) 31–32 Filter 124 (Dark Green) (wheel slot 17) 33–34 Filter 106 (Primary Red) (wheel slot 18) 35–36 Filter 111 (Dark Pink) (wheel slot 19) 37–38 Filter 115 (Peacock Blue) (wheel slot 20) 39–40 Filter 126 (Mauve) (wheel slot 21) 41–42 Filter 117 (Steel Blue) (wheel slot 22) 43–44 Filter 118 (Light Blue) (wheel slot 23) 45–46 Filter 122 (Fern Green) (wheel slot 24) 47–48 Filter 182 (Light Red) (wheel slot 25) 49–50 Filter 121 (Filter Green) (wheel slot 26) 51–52 Filter 128 (Bright Pink) (wheel slot 27) 53–54 Filter 131 (Marine Blue) (wheel slot 28) 55–56 Filter 132 (Medium Blue) (wheel slot 29) 57–58 Filter 134 (Golden Amber) (wheel slot 30) 59–60 Filter 135 (Deep Golden Amber) (wheel slot 31) 61–62 Filter 136 (Pale Lavender) (wheel slot 32) 63–64 Filter 137 (Special Lavender) (wheel slot 33) 65–66 Filter 138 (Pale Green) (wheel slot 34) 67–68 Filter 798 (Chrysalis Pink) (wheel slot 35) 69–70 Filter 141 (Bright Blue) (wheel slot 36) 71–72 Filter 147 (Apricot) (wheel slot 37) 73–74 Filter 148 (Bright Rose) (wheel slot 38) 75–76 Filter 152 (Pale Gold) (wheel slot 39) 77–78 Filter 154 (Pale Rose) (wheel slot 40) 79–80 Filter 157 (Pink) (wheel slot 41) 81–82 Filter 143 (Pale Navy Blue) (wheel slot 42) 83–84 Filter 162 (Bastard Amber) (wheel slot 43) 85–86 Filter 164 (Flame Red) (wheel slot 44) 87–88 Filter 165 (Daylight Blue) (wheel slot 45) 89–90 Filter 169 (Lilac Tint) (wheel slot 46) 91–92 Filter 170 (Deep Lavender) (wheel slot 47) 93–94 Filter 172 (Lagoon Blue) (wheel slot 48) 95–96 Filter 194 (Surprise Pink) (wheel slot 49) 97–98 Filter 180 (Dark Lavender) (wheel slot 50) 99–100 Filter 181 (Congo Blue) (wheel slot 51) 101–102 Filter 197 (Alice Blue) (wheel slot 52) 103–104 Filter 201 (Full CT Blue) (wheel slot 53) 105–106 Filter 202 (Half CT Blue) (wheel slot 54) 107–108 Filter 203 (Quarter CT Blue) (wheel slot 55) 109–110 Filter 204 (Full CT Orange) (wheel slot 56) 111–112 Filter 219 (Fluorescent Green) (wheel slot 57) 113–114 Filter 206 (Quarter CT Orange) (wheel slot 58) 115–116 Filter 247 (Filter Minus Green) (wheel slot 59) 117–118 Filter 248 (Half Minus Green) (wheel slot 60) 119–120 Filter 281 (Three Quarter CT Blue) (wheel slot 61) 121–122 Filter 285 (Three Quarter CT Orange) (wheel slot 62) 123–124 Filter 352 (Glacier Blue) (wheel slot 63) 125–126 Filter 353 (Lighter Blue) (wheel slot 64)

Mode 2 Reduced 8-bit (continued)

Ch	Function	Default	DMX values
10	Red	255	
11	Green	255	
12	Blue	255	
13	White	255	
14	C TO	0	0–254 8000K 255–255 2700K
15	Color Mix Mode	45	0–9 Virtual colors (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) 70–128 Reserved 129–129 Virtual colors (virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
16	Prism	0	0–0 Open (wheel slot 1) 1–24 Fast to slow 1/7 (wheel slot 2) 25–49 Fast to slow 2/7 (wheel slot 2) 50–74 Fast to slow 3/7 (wheel slot 2) 75–99 Fast to slow 4/7 (wheel slot 2) 100–119 Fast to slow 5/7 (wheel slot 2) 120–124 Fast to slow 6/7 (wheel slot 2) 125–127 Fast to slow 7/7 (wheel slot 2) 128–128 No rotation middle (wheel slot 2) 129–131 Slow to fast 1/7 (wheel slot 2) 132–136 Slow to fast 2/7 (wheel slot 2) 137–156 Slow to fast 3/7 (wheel slot 2) 157–181 Slow to fast 4/7 (wheel slot 2) 182–206 Slow to fast 5/7 (wheel slot 2) 207–232 Slow to fast 6/7 (wheel slot 2) 233–255 slow to fast 7/7 (wheel slot 2)
17	Prism	0	0–0 No Flower Effect 1–124 Fast to slow - Fast (wheel slot 2) 125–127 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)
18	Effect	0	0–0 Open 1–2 Macro 1 3–4 Macro 2 5–6 Macro 3 7–8 Macro 4 9–10 Macro 5 11–12 Macro 6 13–14 Macro 7 15–16 Macro 8 17–18 Macro 9 19–20 Macro 10 21–255 Reserved
19	Zoom	128	0–254 Wide 255–255 Narrow

Mode 2 Reduced 8-bit (continued)

Ch	Function	Default	DMX values
20	Shutter / Strobe	32	0–31 Shutter closed 32–63 Shutter open 64–74 Shutter1Strobe · Slow to fast 1/10 0.303–6.72 Hz 75–91 Shutter1Strobe · Slow to fast 5/10 7.36–17.6 Hz 92–95 Shutter1Strobe · Slow to fast 10/10 18.3–20.2 Hz 96–127 Shutter open 128–134 Shutter1StrobePulseOpen · Slow to fast 1/7 0.126–... 135–140 Shutter1StrobePulseOpen · Slow to fast 4/7 0.302–... 141–143 Shutter1StrobePulseOpen · Slow to fast 7/7 0.454–... 144–149 Shutter1StrobePulseClose · Fast to slow 1/7 0.504–... 150–155 Shutter1StrobePulseClose · Fast to slow 4/7 0.353–... 156–159 Shutter1StrobePulseClose · Fast to slow 7/7 0.202–... 160–191 Shutter open 192–222 Strobe random slow 223–223 Strobe random fast 224–255 Shutter open
21	Dimmer	0	0–254 Closed 255–255 Open

Mode 1 Standard 16-bit

27 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	Pan Rotate	0	0–0 Pan range 540Deg shortcut Off 1–1 Pan range 360Deg shortcut On 2–127 No function (Pan range 540Deg shortcut Off) 128–188 Forwards - Fast 189–189 Forwards - Slow 190–193 No rotation middle 194–254 Backwards - Slow 255–255 Backwards - Fast
6	Tilt Rotate	0	0–0 Tilt range 360Deg Shortcut Off 1–1 Tilt range 360Deg Shortcut On 2–127 No function (Tilt range 360Deg Shortcut Off) 128–188 Forwards - Fast 189–189 Forwards - Slow 190–193 No rotation middle 194–254 Backwards - Slow 255–255 Backwards - Fast
7	Position MSpeed	0	0–0 Standard mode 1–254 Max 255–255 Min

Mode 1 Standard 16-bit (continued)

Ch	Function	Default	DMX values
8	Control1	0	0–19 No feature 20–24 Graphic display On 25–29 Graphic display Off 30–34 RGBW colour mixing mode 35–39 CMY colour mixing mode 40–44 Pan/Tilt speed mode 45–49 Pan/Tilt time mode 50–54 Blackout while pan/tilt moving 55–59 Disabled blackout while pan/tilt moving 60–64 Dimmer curve Square law 65–69 Dimmer curve Linear 70–74 Fans mode: Auto 75–79 Fans mode: High 80–84 White point 8000K On 85–89 White point 8000K Off 90–129 NoFeature 9 130–139 Fixture reset (except pan/tilt) 140–149 Pan/Tilt reset 150–159 Zoom reset 160–169 Flower effect/Prism/Frost reset 170–171 Tungsten effect simulation (750W) On 172–173 Tungsten effect simulation (1000W) On 174–175 Tungsten effect simulation (1200W) On 176–177 Tungsten effect simulation (2000W) On 178–179 Tungsten effect simulation (2500W) On 180–181 Tungsten effect simulation Off 182–183 NoFeature 15 185–185 Standard 300Hz 186–186 High 600Hz 187–187 LED frequency (step -6) 188–188 LED frequency (step -5) 189–189 LED frequency (step -4) 190–190 LED frequency (step -3) 191–191 LED frequency (step -2) 192–192 LED frequency (step -1) 193–193 LED frequency (Standard or High) 194–194 LED frequency (step +1) 195–195 LED frequency (step +2) 196–196 LED frequency (step +3) 197–197 LED frequency (step +4) 198–198 LED frequency (step +5) 199–199 LED frequency (step +6) 200–209 Total fixture reset 210–255 Gobo rest

Mode 1 Standard 16-bit (continued)

Ch	Function	Default	DMX values
9	Color Wheel	0	0–0 No function (wheel slot 1) 1–2 Filter 4 (Medium Bastard Amber) (wheel slot 2) 3–4 Filter 25 (Sunset Red) (wheel slot 3) 5–6 Filter 19 (Fire) (wheel slot 4) 7–8 Filter 26 (Bright Red) (wheel slot 5) 9–10 Filter 58 (Lavender) (wheel slot 6) 11–12 Filter 68 (Sky Blue) (wheel slot 7) 13–14 Filter 36 (Medium Pink) (wheel slot 8) 15–16 Filter 89 (Moss Green) (wheel slot 9) 17–18 Filter 88 (Lime Green) (wheel slot 10) 19–20 Filter 90 (Dark Yellow Green) (wheel slot 11) 21–22 Filter 49 (Medium Purple) (wheel slot 12) 23–24 Filter 52 (Light Lavender) (wheel slot 13) 25–26 Filter 102 (Light Amber) (wheel slot 14) 27–28 Filter 103 (Straw) (wheel slot 15) 29–30 Filter 140 (Summer Blue) (wheel slot 16) 31–32 Filter 124 (Dark Green) (wheel slot 17) 33–34 Filter 106 (Primary Red) (wheel slot 18) 35–36 Filter 111 (Dark Pink) (wheel slot 19) 37–38 Filter 115 (Peacock Blue) (wheel slot 20) 39–40 Filter 126 (Mauve) (wheel slot 21) 41–42 Filter 117 (Steel Blue) (wheel slot 22) 43–44 Filter 118 (Light Blue) (wheel slot 23) 45–46 Filter 122 (Fern Green) (wheel slot 24) 47–48 Filter 182 (Light Red) (wheel slot 25) 49–50 Filter 121 (Filter Green) (wheel slot 26) 51–52 Filter 128 (Bright Pink) (wheel slot 27) 53–54 Filter 131 (Marine Blue) (wheel slot 28) 55–56 Filter 132 (Medium Blue) (wheel slot 29) 57–58 Filter 134 (Golden Amber) (wheel slot 30) 59–60 Filter 135 (Deep Golden Amber) (wheel slot 31) 61–62 Filter 136 (Pale Lavender) (wheel slot 32) 63–64 Filter 137 (Special Lavender) (wheel slot 33) 65–66 Filter 138 (Pale Green) (wheel slot 34) 67–68 Filter 798 (Chrysalis Pink) (wheel slot 35) 69–70 Filter 141 (Bright Blue) (wheel slot 36) 71–72 Filter 147 (Apricot) (wheel slot 37) 73–74 Filter 148 (Bright Rose) (wheel slot 38) 75–76 Filter 152 (Pale Gold) (wheel slot 39) 77–78 Filter 154 (Pale Rose) (wheel slot 40) 79–80 Filter 157 (Pink) (wheel slot 41) 81–82 Filter 143 (Pale Navy Blue) (wheel slot 42) 83–84 Filter 162 (Bastard Amber) (wheel slot 43) 85–86 Filter 164 (Flame Red) (wheel slot 44) 87–88 Filter 165 (Daylight Blue) (wheel slot 45) 89–90 Filter 169 (Lilac Tint) (wheel slot 46) 91–92 Filter 170 (Deep Lavender) (wheel slot 47) 93–94 Filter 172 (Lagoon Blue) (wheel slot 48) 95–96 Filter 194 (Surprise Pink) (wheel slot 49) 97–98 Filter 180 (Dark Lavender) (wheel slot 50) 99–100 Filter 181 (Congo Blue) (wheel slot 51) 101–102 Filter 197 (Alice Blue) (wheel slot 52) 103–104 Filter 201 (Full CT Blue) (wheel slot 53) 105–106 Filter 202 (Half CT Blue) (wheel slot 54) 107–108 Filter 203 (Quarter CT Blue) (wheel slot 55) 109–110 Filter 204 (Full CT Orange) (wheel slot 56) 111–112 Filter 219 (Fluorescent Green) (wheel slot 57) 113–114 Filter 206 (Quarter CT Orange) (wheel slot 58) 115–116 Filter 247 (Filter Minus Green) (wheel slot 59) 117–118 Filter 248 (Half Minus Green) (wheel slot 60) 119–120 Filter 281 (Three Quarter CT Blue) (wheel slot 61) 121–122 Filter 285 (Three Quarter CT Orange) (wheel slot 62) 123–124 Filter 352 (Glacier Blue) (wheel slot 63) 125–126 Filter 353 (Lighter Blue) (wheel slot 64)

Mode 1 Standard 16-bit (continued)

Ch	Function	Default	DMX values
10	Red	255	
11	Red Fine	255	Fine byte of Red
12	Green	255	
13	Green Fine	255	Fine byte of Green
14	Blue	255	
15	Blue Fine	255	Fine byte of Blue
16	White	255	
17	White Fine	255	Fine byte of White
18	C TO	0	0–254 8000K 255–255 2700K
19	Color Mix Mode	45	0–9 Virtual colors (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) 70–128 Reserved 129–129 Virtual colors (virtual has priority) 130–254 Crossfade (crossfade between Virtual and Colour ... 255–255 Colour channels (Colour mix has priority)
20	Prism	0	0–0 Open (wheel slot 1) 1–24 Fast to slow 1/7 (wheel slot 2) 25–49 Fast to slow 2/7 (wheel slot 2) 50–74 Fast to slow 3/7 (wheel slot 2) 75–99 Fast to slow 4/7 (wheel slot 2) 100–119 Fast to slow 5/7 (wheel slot 2) 120–124 Fast to slow 6/7 (wheel slot 2) 125–127 Fast to slow 7/7 (wheel slot 2) 128–128 No rotation middle (wheel slot 2) 129–131 Slow to fast 1/7 (wheel slot 2) 132–136 Slow to fast 2/7 (wheel slot 2) 137–156 Slow to fast 3/7 (wheel slot 2) 157–181 Slow to fast 4/7 (wheel slot 2) 182–206 Slow to fast 5/7 (wheel slot 2) 207–232 Slow to fast 6/7 (wheel slot 2) 233–255 slow to fast 7/7 (wheel slot 2)
21	Prism	0	0–0 No Flower Effect 1–124 Fast to slow - Fast (wheel slot 2) 125–127 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)
22	Effect	0	0–0 Open 1–2 Macro 1 3–4 Macro 2 5–6 Macro 3 7–8 Macro 4 9–10 Macro 5 11–12 Macro 6 13–14 Macro 7 15–16 Macro 8 17–18 Macro 9 19–20 Macro 10 21–255 Reserved
23	Zoom	128	0–254 Wide 255–255 Narrow

Mode 1 Standard 16-bit (continued)

Ch	Function	Default	DMX values
24	Zoom Fine	0	Fine byte of Zoom
25	Shutter / Strobe	32	0–31 Shutter closed 32–63 Shutter open 64–74 Shutter1Strobe · Slow to fast 1/10 0.303–6.72 Hz 75–91 Shutter1Strobe · Slow to fast 5/10 7.36–17.6 Hz 92–95 Shutter1Strobe · Slow to fast 10/10 18.3–20.2 Hz 96–127 Shutter open 128–134 Shutter1StrobePulseOpen · Slow to fast 1/7 0.126–... 135–140 Shutter1StrobePulseOpen · Slow to fast 4/7 0.302–... 141–143 Shutter1StrobePulseOpen · Slow to fast 7/7 0.454–... 144–149 Shutter1StrobePulseClose · Fast to slow 1/7 0.504–... 150–155 Shutter1StrobePulseClose · Fast to slow 4/7 0.353–... 156–159 Shutter1StrobePulseClose · Fast to slow 7/7 0.202–... 160–191 Shutter open 192–222 Strobe random slow 223–223 Strobe random fast 224–255 Shutter open
26	Dimmer	0	0–254 Closed 255–255 Open
27	Dimmer Fine	0	Fine byte of Dimmer