Robe Lighting

Robin BMFL WashBeam EV



Manufacturer	**Robe Lighting**
Type	**Profile spot**
DMX modes	**2**
DMX footprint	**40, 48 channels**
Beam angle	**5-45°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**308 × 623 × 230 mm**
GDTF fixture type	**5B1B898B-A69F-4A8F-856C-C2…**

Controls

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

Safety-relevant functions

Lamp on and off · Fixture reset · Service functions

DMX modes

Mode 2 - Reduced	40 ch
Mode 1 - Standard 16 bit	48 ch

Mode 2 - Reduced

40 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 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 20–24 Display On 25–29 Display Off 30–34 NoFeature 1 35–39 Lamp power 1500W 40–44 Lamp power 1700W 45–49 Quiet mode 50–54 Dimmer curve Square law 55–59 Dimmer curve Linear 60–64 Fans mode Auto 65–69 Fans mode High 70–74 Parking position ON 75–79 Parking position OFF 80–89 NoFeature 2 90–94 Pan/Tilt speed mode 95–99 Pan/Tilt time mode 100–104 Blackout while pan/tilt moving 105–109 Disabled blackout while pan/tilt moving 110–114 Blackout while colour wheels moving 115–119 Disabled blackout while colour wheels moving 120–129 NoFeature 3 130–139 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 4 230–239 Lamp Off 240–244 RoboSpot enabled 245–249 RoboSpot disabled except faders and PT 250–255 RoboSpot fully disabled

Mode 2 - Reduced (continued)

Ch	Function	Default	DMX values
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) 83–99 Magenta - continual (wheel slot 6) 100–120 Congo blue (UV) - continual (wheel slot 7) 121–129 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 Magenta - 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 2	0	0–8 Open/white - continual (wheel slot 1) 9–27 Pink - continual (wheel slot 2) 28–46 Lavender - continual (wheel slot 3) 47–63 Laser green - continual (wheel slot 4) 64–82 CTB - continual (wheel slot 5) 83–99 Minus green - continual (wheel slot 6) 100–120 Minus 1/2 green - continual (wheel slot 7) 121–129 White - continual (wheel slot 1) 130–139 Pink - step (wheel slot 2) 140–149 Lavender - step (wheel slot 3) 150–159 Laser green - step (wheel slot 4) 160–169 CTB - step (wheel slot 5) 170–179 Minus green - step (wheel slot 6) 180–189 Minus 1/2 green - 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
9	Cyan	0	
10	Magenta	0	
11	Yellow	0	
12	C TO	0	0–254 Min CTO 6000K 255–255 Max CTO 2700K
13	Color Macro1	0	
14	Effects1Fade	0	
15	Color Mix MSpeed	0	
16	Zoom MSpeed	0	

Mode 2 - Reduced (continued)

Ch	Function	Default	DMX values
17	Gobo	0	0–4 Open/hole (wheel slot 1) 5–8 Gobo 1 (wheel slot 2) 9–13 Gobo 2 (wheel slot 3) 14–17 Gobo 3 (wheel slot 4) 18–22 Gobo 4 (wheel slot 5) 23–26 Gobo 5 (wheel slot 6) 27–31 Gobo 6 (wheel slot 7) 32–35 Gobo 1 - Rotation (wheel slot 2) 36–40 Gobo 2 - Rotation (wheel slot 3) 41–44 Gobo 3 - Rotation (wheel slot 4) 45–49 Gobo 4 - Rotation (wheel slot 5) 50–54 Gobo 5 - Rotation (wheel slot 6) 55–59 Gobo 6 - Rotation (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) 202–218 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
18	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
19	Gobo 2	0	0–4 Open/hole (wheel slot 1) 5–8 Gobo 1 (wheel slot 2) 9–13 Gobo 2 (wheel slot 3) 14–17 Gobo 3 (wheel slot 4) 18–22 Gobo 4 (wheel slot 5) 23–26 Gobo 5 (wheel slot 6) 27–31 Gobo 6 (wheel slot 7) 32–35 Gobo 1 - Rotation (wheel slot 2) 36–40 Gobo 2 - Rotation (wheel slot 3) 41–44 Gobo 3 - Rotation (wheel slot 4) 45–49 Gobo 4 - Rotation (wheel slot 5) 50–54 Gobo 5 - Rotation (wheel slot 6) 55–59 Gobo 6 - Rotation (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) 202–218 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 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
21	Frost1	0	0–0 Open 1–254 Light Frost from 0% to 100% 255–255 100% Light Frost
22	Frost2	0	0–0 Open 1–254 Light Frost from 0% to 100% 255–255 100% Medium Frost
23	Frost3	0	0–0 Open 1–254 Combined Frost from 0% to 100% 255–255 100% Combined Frost
24	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

Mode 2 - Reduced (continued)

Ch	Function	Default	DMX values
25	Zoom	128	0–254 Zoom max 255–255 Zoom min
26	Focus	0	
27	No Feature	0	
28	Shaper Rot	128	
29	Blade3A	0	
30	Blade3Rot	128	
31	Blade4A	0	
32	Blade4Rot	128	
33	Blade1A	0	
34	Blade1Rot	128	
35	Blade2A	0	
36	Blade2Rot	128	
37	Shaper Macros	0	
38	Shaper Macros Speed	0	
39	Shutter / Strobe	32	0–31 Closed 32–63 Open 64–94 Slow to fast - Slow 95–95 Slow to fast - Fast 96–127 open 128–140 Slow to fast - Slow 141–143 Slow to fast - Fast 144–159 Fast to slow - Fast 160–191 open 192–223 Random strobe from slow to fast 224–255 open
40	Dimmer	0	0–254 Closed 255–255 Open

Mode 1 - Standard 16 bit

48 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 Speed/Time max to min 255–255 Min Speed Mode

Mode 1 - Standard 16 bit (continued)

Ch	Function	Default	DMX values
6	Control1	0	0–9 No function 10–14 Wired DMX 15–19 Wireless DMX 20–24 Display On 25–29 Display Off 30–34 NoFeature 1 35–39 Lamp power 1500W 40–44 Lamp power 1700W 45–49 Quiet mode 50–54 Dimmer curve Square law 55–59 Dimmer curve Linear 60–64 Fans mode Auto 65–69 Fans mode High 70–74 Parking position ON 75–79 Parking position OFF 80–89 NoFeature 2 90–94 Pan/Tilt speed mode 95–99 Pan/Tilt time mode 100–104 Blackout while pan/tilt moving 105–109 Disabled blackout while pan/tilt moving 110–114 Blackout while colour wheels moving 115–119 Disabled blackout while colour wheels moving 120–129 NoFeature 3 130–139 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 4 230–239 Lamp Off 240–244 RoboSpot enabled 245–249 RoboSpot disabled except faders and PT 250–255 RoboSpot fully disabled
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 Magenta - 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 Magenta - 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

Mode 1 - Standard 16 bit (continued)

Ch	Function	Default	DMX values
9	Color Wheel 2	0	0–7 Open/white - continual (wheel slot 1) 8–26 Pink - continual (wheel slot 2) 27–45 Lavender - continual (wheel slot 3) 46–62 Laser green - continual (wheel slot 4) 63–81 CTB - continual (wheel slot 5) 82–98 Minus green - continual (wheel slot 6) 99–119 Minus 1/2 green - continual (wheel slot 7) 120–129 White - continual (wheel slot 1) 130–139 Pink - step (wheel slot 2) 140–149 Lavender - step (wheel slot 3) 150–159 Laser green - step (wheel slot 4) 160–169 CTB - step (wheel slot 5) 170–179 Minus green - step (wheel slot 6) 180–189 Minus 1/2 green - 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
10	Color Wheel 2 Fine	0	Fine byte of Color Wheel 2
11	Cyan	0	
12	Magenta	0	
13	Yellow	0	
14	C TO	0	0–254 Min CTO 6000K 255–255 Max CTO 2700K
15	Color Macro1	0	
16	Effects1Fade	0	
17	Color Mix MSpeed	0	
18	Zoom MSpeed	0	

Mode 1 - Standard 16 bit (continued)

Ch	Function	Default	DMX values
19	Gobo	0	0–4 Open/hole (wheel slot 1) 5–8 Gobo 1 (wheel slot 2) 9–13 Gobo 2 (wheel slot 3) 14–17 Gobo 3 (wheel slot 4) 18–22 Gobo 4 (wheel slot 5) 23–26 Gobo 5 (wheel slot 6) 27–31 Gobo 6 (wheel slot 7) 32–35 Gobo 1 - Rotation (wheel slot 2) 36–40 Gobo 2 - Rotation (wheel slot 3) 41–44 Gobo 3 - Rotation (wheel slot 4) 45–49 Gobo 4 - Rotation (wheel slot 5) 50–54 Gobo 5 - Rotation (wheel slot 6) 55–59 Gobo 6 - Rotation (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) 202–218 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 16 bit (continued)

Ch	Function	Default	DMX values
22	Gobo 2	0	0–4 Open/hole (wheel slot 1) 5–8 Gobo 1 (wheel slot 2) 9–13 Gobo 2 (wheel slot 3) 14–17 Gobo 3 (wheel slot 4) 18–22 Gobo 4 (wheel slot 5) 23–26 Gobo 5 (wheel slot 6) 27–31 Gobo 6 (wheel slot 7) 32–35 Gobo 1 - Rotation (wheel slot 2) 36–40 Gobo 2 - Rotation (wheel slot 3) 41–44 Gobo 3 - Rotation (wheel slot 4) 45–49 Gobo 4 - Rotation (wheel slot 5) 50–54 Gobo 5 - Rotation (wheel slot 6) 55–59 Gobo 6 - Rotation (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) 202–218 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 1–24 Fast to slow - Fast 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 - Slow 128–128 Gobo indexing center 129–132 Slow to fast - Slow 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 - Fast 255–255 Gobo indexing max
24	Gobo Rotation 2 Fine	0	Fine byte of Gobo Rotation 2
25	Frost1	0	0–0 Open 1–254 Light Frost from 0% to 100% 255–255 100% Light Frost
26	Frost2	0	0–0 Open 1–254 Medium Frost from 0% to 100% 255–255 100% Medium Frost

Mode 1 - Standard 16 bit (continued)

Ch	Function	Default	DMX values
27	Frost3	0	0–0 Open 1–254 Combined Frost from 0% to 100% 255–255 100% Combined 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
34	No Feature	0	
35	Shaper Rot	128	
36	Blade3A	0	
37	Blade3Rot	128	
38	Blade4A	0	
39	Blade4Rot	128	
40	Blade1A	0	
41	Blade1Rot	128	
42	Blade2A	0	
43	Blade2Rot	128	
44	Shaper Macros	0	
45	Shaper Macros Speed	0	
46	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
47	Dimmer	0	0–254 Closed 255–255 Open
48	Dimmer Fine	0	Fine byte of Dimmer