Robe Lighting

Robin 100 LEDBeam



Manufacturer	**Robe Lighting**
Type	**Moving head**
DMX modes	**6**
DMX footprint	**9, 14, 19, 35, 37 channels**
Beam angle	**7°**
Pan range	**450°**
Tilt range	**300°**
Heads / cells	**3**
Size (W × H × D)	**160 × 146 × 158 mm**
GDTF fixture type	**F74CAC5F-1BEA-4195-8B75-F9…**

Controls

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

Safety-relevant functions

Fixture reset · Service functions

DMX modes

Mode 4 Macro colors 8bit	9 ch
Mode 3 Beam light 8bit	14 ch
Mode 2 Beam light 16bit	19 ch
Mode 1 Three LED Zones 16bit	35 ch
Mode 5 Three LED Zones at the end 16bit	35 ch
Mode 6 Compatible with LW600 mode 1	37 ch

Mode 4 Macro colors 8bit

9 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	0–0 Standard mode 1–254 max 255–255 min
6	Control1	0	0–29 No function 30–39 RGBW color mixing mode 40–49 CMY color mixing mode 50–59 P/T speed mode 60–69 P/T time mode 70–79 enable blackout while p/t moving 80–89 disable blackout while p/t moving 90–109 NoFeature 110–114 color calibration mode ON 115–119 color calibration mode OFF 120–124 tilt movement reduction ON 125–129 tilt movement reduction OFF 130–139 NoFeature 8 140–149 Pan/Tilt reset 150–199 Reserved 4 200–209 Total Reset 210–255 NoFeature 12
7	Color Wheel	0	0–0 Open (wheel slot 1) 1–2 White 2700K (wheel slot 2) 3–3 White 2700K Halogen (wheel slot 3) 4–5 White 3200K (wheel slot 4) 6–6 White 3200K Halogen (wheel slot 5) 7–9 White 4200K (wheel slot 6) 10–12 White 5600K (wheel slot 7) 13–15 White 8000K (wheel slot 8) 16–55 Blue (wheel slot 9) 56–95 Light Blue (wheel slot 10) 96–134 Green (wheel slot 11) 135–174 Yellow (wheel slot 12) 175–214 Red (wheel slot 13) 215–246 Magenta (wheel slot 14) 247–247 Blue (wheel slot 15) 248–248 Rainbow (fade time) 249–249 Rainbow 250–250 Zone effect 1 251–251 Zone effect 2 252–252 Zone effect 3 253–253 Zone effect 4 254–254 Zone effect 5 255–255 Zone effect 6
8	Shutter / Strobe	255	0–31 Shutter closed 32–63 Strobe slow to fast (zone 2 + 3) 64–95 Strobe slow to fast (all zones) 96–111 Strobe · Effect + rainbow speed slow to fast 7.06–8.... 112–127 Strobe · Effect + rainbow speed fast to slow 8.58–1... 128–143 Strobe Opening slow to fast 144–159 Strobe Closing fast to slow 160–175 Random Strobe slow to fast (random zone) 176–191 Random Strobe slow to fast (random zone + rando... 192–224 Random Strobe slow to fast (all zones) 225–255 Shutter Open
9	Dimmer	0	0–254 Closed (wheel slot -2147483648) 255–255 Open (wheel slot -2147483648)

Mode 3 Beam light 8bit

14 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	0–0 Standard mode 1–254 max 255–255 min
6	Control1	0	0–29 No function 30–39 RGBW color mixing mode 40–49 CMY color mixing mode 50–59 P/T speed mode 60–69 P/T time mode 70–79 enable blackout while p/t moving 80–89 disable blackout while p/t moving 90–109 NoFeature 110–114 color calibration mode ON 115–119 color calibration mode OFF 120–124 tilt movement reduction ON 125–129 tilt movement reduction OFF 130–139 NoFeature 8 140–149 Pan/Tilt reset 150–199 NoFeature 10 200–209 Total Reset 210–255 NoFeature 12
7	Red	255	
8	Green	255	
9	Blue	255	
10	White	255	
11	C TO	0	0–254 15500K 255–255 2700K
12	Color Wheel	0	0–0 Open (wheel slot 1) 1–2 White 2700K (wheel slot 2) 3–3 White 2700K Halogen (wheel slot 3) 4–5 White 3200K (wheel slot 4) 6–6 White 3200K Halogen (wheel slot 5) 7–9 White 4200K (wheel slot 6) 10–12 White 5600K (wheel slot 7) 13–15 White 8000K (wheel slot 8) 16–55 Blue (wheel slot 9) 56–95 Light Blue (wheel slot 10) 96–134 Green (wheel slot 11) 135–174 Yellow (wheel slot 12) 175–214 Red (wheel slot 13) 215–246 Magenta (wheel slot 14) 247–247 Blue (wheel slot 15) 248–248 Rainbow (fade time) 249–249 Rainbow 250–250 Zone effect 1 251–251 Zone effect 2 252–252 Zone effect 3 253–253 Zone effect 4 254–254 Zone effect 5 255–255 Zone effect 6

Mode 3 Beam light 8bit (continued)

Ch	Function	Default	DMX values
13	Shutter / Strobe	255	0–31 Shutter closed 32–63 Strobe slow to fast (zone 2 + 3) 64–95 Strobe slow to fast (all zones) 96–111 Strobe · Effect + rainbow speed slow to fast 7.06–8.... 112–127 Strobe · Effect + rainbow speed fast to slow 8.58–1... 128–143 Strobe Opening slow to fast 144–159 Strobe Closing fast to slow 160–175 Random Strobe slow to fast (random zone) 176–191 Random Strobe slow to fast (random zone + rando... 192–224 Random Strobe slow to fast (all zones) 225–255 Shutter Open
14	Dimmer	0	0–254 Closed (wheel slot -2147483648) 255–255 Open (wheel slot -2147483648)

Mode 2 Beam light 16bit

19 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	0–0 Standard mode 1–254 max 255–255 min
6	Control1	0	0–29 No function 30–39 RGBW color mixing mode 40–49 CMY color mixing mode 50–59 P/T speed mode 60–69 P/T time mode 70–79 enable blackout while p/t moving 80–89 disable blackout while p/t moving 90–109 NoFeature 110–114 color calibration mode ON 115–119 color calibration mode OFF 120–124 tilt movement reduction ON 125–129 tilt movement reduction OFF 130–139 NoFeature 8 140–149 Pan/Tilt reset 150–199 NoFeature 10 200–209 Total Reset 210–255 Reserved 5
7	Red	255	
8	Red Fine	255	Fine byte of Red
9	Green	255	
10	Green Fine	255	Fine byte of Green
11	Blue	255	
12	Blue Fine	255	Fine byte of Blue
13	White	255	
14	White Fine	255	Fine byte of White
15	C TO	0	0–254 15500K 255–255 2700K

Mode 2 Beam light 16bit (continued)

Ch	Function	Default	DMX values
16	Color Wheel	0	0–0 Open (wheel slot 1) 1–2 White 2700K (wheel slot 2) 3–3 White 2700K Halogen (wheel slot 3) 4–5 White 3200K (wheel slot 4) 6–6 White 3200K Halogen (wheel slot 5) 7–9 White 4200K (wheel slot 6) 10–12 White 5600K (wheel slot 7) 13–15 White 8000K (wheel slot 8) 16–55 Blue (wheel slot 9) 56–95 Light Blue (wheel slot 10) 96–134 Green (wheel slot 11) 135–174 Yellow (wheel slot 12) 175–214 Red (wheel slot 13) 215–246 Magenta (wheel slot 14) 247–247 Blue (wheel slot 15) 248–248 Rainbow (fade time) 249–249 Rainbow 250–250 Zone effect 1 251–251 Zone effect 2 252–252 Zone effect 3 253–253 Zone effect 4 254–254 Zone effect 5 255–255 Zone effect 6
17	Shutter / Strobe	255	0–31 Shutter closed 32–63 Strobe slow to fast (zone 2 + 3) 64–95 Strobe slow to fast (all zones) 96–111 Strobe · Effect + rainbow speed slow to fast 7.06–8.... 112–127 Strobe · Effect + rainbow speed fast to slow 8.58–1... 128–143 Strobe Opening slow to fast 144–159 Strobe Closing fast to slow 160–175 Random Strobe slow to fast (random zone) 176–191 Random Strobe slow to fast (random zone + rando... 192–224 Random Strobe slow to fast (all zones) 225–255 Shutter Open
18	Dimmer	0	0–254 Closed (wheel slot -2147483648) 255–255 Open (wheel slot -2147483648)
19	Dimmer Fine	0	Fine byte of Dimmer

Mode 1 Three LED Zones 16bit

35 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	0–0 Standard mode 1–254 max 255–255 min

Mode 1 Three LED Zones 16bit (continued)

Ch	Function	Default	DMX values
6	Control1	0	0–29 No Function 30–39 RGBW color mixing mode 40–49 CMY color mixing mode 50–59 P/T speed mode 60–69 P/T time mode 70–79 enable blackout while p/t moving 80–89 disable blackout while p/t moving 90–109 NoFeature 110–114 color calibration mode ON 115–119 color calibration mode OFF 120–124 tilt movement reduction ON 125–129 tilt movement reduction OFF 130–139 NoFeature 8 140–149 Pan/Tilt reset 150–199 NoFeature 10 200–209 Total Reset 210–255 NoFeature 12
7	Red	255	
8	Red Fine	255	Fine byte of Red
9	Green	255	
10	Green Fine	255	Fine byte of Green
11	Blue	255	
12	Blue Fine	255	Fine byte of Blue
13	White	255	
14	White Fine	255	Fine byte of White
15	Red	255	
16	Red Fine	255	Fine byte of Red
17	Green	255	
18	Green Fine	255	Fine byte of Green
19	Blue	255	
20	Blue Fine	255	Fine byte of Blue
21	White	255	
22	White Fine	255	Fine byte of White
23	Red	255	
24	Red Fine	255	Fine byte of Red
25	Green	255	
26	Green Fine	255	Fine byte of Green
27	Blue	255	
28	Blue Fine	255	Fine byte of Blue
29	White	255	
30	White Fine	255	Fine byte of White
31	C TO	0	0–254 15500K 255–255 2700K

Mode 1 Three LED Zones 16bit (continued)

Ch	Function	Default	DMX values
32	Color Wheel	0	0–0 Open (wheel slot 1) 1–2 White 2700K (wheel slot 2) 3–3 White 2700K Halogen (wheel slot 3) 4–5 White 3200K (wheel slot 4) 6–6 White 3200K Halogen (wheel slot 5) 7–9 White 4200K (wheel slot 6) 10–12 White 5600K (wheel slot 7) 13–15 White 8000K (wheel slot 8) 16–55 Blue (wheel slot 9) 56–95 Light Blue (wheel slot 10) 96–134 Green (wheel slot 11) 135–174 Yellow (wheel slot 12) 175–214 Red (wheel slot 13) 215–246 Magenta (wheel slot 14) 247–247 Blue (wheel slot 15) 248–248 Rainbow (fade time) 249–249 Rainbow 250–250 Zone effect 1 251–251 Zone effect 2 252–252 Zone effect 3 253–253 Zone effect 4 254–254 Zone effect 5 255–255 Zone effect 6
33	Shutter / Strobe	255	0–31 Shutter closed 32–63 Strobe slow to fast (zone 2 + 3) 64–95 Strobe slow to fast (all zones) 96–111 Strobe · Effect + rainbow speed slow to fast 7.06–8.... 112–127 Strobe · Effect + rainbow speed fast to slow 8.58–1... 128–143 Strobe Opening slow to fast 144–159 Strobe Closing fast to slow 160–175 Random Strobe slow to fast (random zone) 176–191 Random Strobe slow to fast (random zone + rando... 192–224 Random Strobe slow to fast (all zones) 225–255 Shutter Open
34	Dimmer	0	0–254 Closed (wheel slot -2147483648) 255–255 Open (wheel slot -2147483648)
35	Dimmer Fine	0	Fine byte of Dimmer

Mode 5 Three LED Zones at the end 16bit

35 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	0–0 Standard mode 1–254 max 255–255 min

Mode 5 Three LED Zones at the end 16bit (continued)

Ch	Function	Default	DMX values
6	Lamp Control	0	0–29 No function 30–39 RGBW color mixing mode 40–49 CMY color mixing mode 50–59 P/T speed mode 60–69 P/T time mode 70–79 enable blackout while p/t moving 80–89 disable blackout while p/t moving 90–109 NoFeature 110–114 color calibration mode ON 115–119 color calibration mode OFF 120–124 tilt movement reduction ON 125–129 tilt movement reduction OFF 130–139 NoFeature 8 140–149 Pan/Tilt reset 150–199 NoFeature 10 200–209 Total Reset 210–255 NoFeature 12
7	Shutter / Strobe	255	0–31 Shutter closed 32–63 Strobe slow to fast (zone 2 + 3) 64–95 Strobe slow to fast (all zones) 96–111 Strobe · Effect + rainbow speed slow to fast 7.06–8.... 112–127 Strobe · Effect + rainbow speed fast to slow 8.58–1... 128–143 Strobe Opening slow to fast 144–159 Strobe Closing fast to slow 160–175 Random Strobe slow to fast (random zone) 176–191 Random Strobe slow to fast (random zone + rando... 192–224 Random Strobe slow to fast (all zones) 225–255 Shutter Open
8	Dimmer	0	0–254 Closed (wheel slot -2147483648) 255–255 Open (wheel slot -2147483648)
9	Dimmer Fine	0	Fine byte of Dimmer
10	C TO	0	0–254 15500K 255–255 2700K
11	Color Wheel	0	0–0 Open (wheel slot 1) 1–2 White 2700K (wheel slot 2) 3–3 White 2700K Halogen (wheel slot 3) 4–5 White 3200K (wheel slot 4) 6–6 White 3200K Halogen (wheel slot 5) 7–9 White 4200K (wheel slot 6) 10–12 White 5600K (wheel slot 7) 13–15 White 8000K (wheel slot 8) 16–55 Blue (wheel slot 9) 56–95 Light Blue (wheel slot 10) 96–134 Green (wheel slot 11) 135–174 Yellow (wheel slot 12) 175–214 Red (wheel slot 13) 215–246 Magenta (wheel slot 14) 247–247 Blue (wheel slot 15) 248–248 Rainbow (fade time) 249–249 Rainbow 250–250 Zone effect 1 251–251 Zone effect 2 252–252 Zone effect 3 253–253 Zone effect 4 254–254 Zone effect 5 255–255 Zone effect 6
12	Red	255	
13	Red Fine	255	Fine byte of Red
14	Green	255	

Mode 5 Three LED Zones at the end 16bit (continued)

Ch	Function	Default	DMX values
15	Green Fine	255	Fine byte of Green
16	Blue	255	
17	Blue Fine	255	Fine byte of Blue
18	White	255	
19	White Fine	255	Fine byte of White
20	Red	255	
21	Red Fine	255	Fine byte of Red
22	Green	255	
23	Green Fine	255	Fine byte of Green
24	Blue	255	
25	Blue Fine	255	Fine byte of Blue
26	White	255	
27	White Fine	255	Fine byte of White
28	Red	255	
29	Red Fine	255	Fine byte of Red
30	Green	255	
31	Green Fine	255	Fine byte of Green
32	Blue	255	
33	Blue Fine	255	Fine byte of Blue
34	White	255	
35	White Fine	255	Fine byte of White

Mode 6 Compatible with LW600 mode 1

37 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	0–0 Standard mode 1–254 max 255–255 min
6	Control1	0	0–29 No function 30–39 RGBW color mixing mode 40–49 CMY color mixing mode 50–59 P/T speed mode 60–69 P/T time mode 70–79 enable blackout while p/t moving 80–89 disable blackout while p/t moving 90–109 NoFeature 110–114 color calibration mode ON 115–119 color calibration mode OFF 120–124 tilt movement reduction ON 125–129 tilt movement reduction OFF 130–139 NoFeature 8 140–149 Pan/Tilt reset 150–199 NoFeature 10 200–209 Total Reset 210–255 NoFeature 12
7	Red	255	
8	Red Fine	255	Fine byte of Red

Mode 6 Compatible with LW600 mode 1 (continued)

Ch	Function	Default	DMX values
9	Green	255	
10	Green Fine	255	Fine byte of Green
11	Blue	255	
12	Blue Fine	255	Fine byte of Blue
13	White	255	
14	White Fine	255	Fine byte of White
15	Red	255	
16	Red Fine	255	Fine byte of Red
17	Green	255	
18	Green Fine	255	Fine byte of Green
19	Blue	255	
20	Blue Fine	255	Fine byte of Blue
21	White	255	
22	White Fine	255	Fine byte of White
23	Red	255	
24	Red Fine	255	Fine byte of Red
25	Green	255	
26	Green Fine	255	Fine byte of Green
27	Blue	255	
28	Blue Fine	255	Fine byte of Blue
29	White	255	
30	White Fine	255	Fine byte of White
31	C TO	0	0–254 15500K 255–255 2700K
32	Color Wheel	0	0–0 Open (wheel slot 1) 1–2 White 2700K (wheel slot 2) 3–3 White 2700K Halogen (wheel slot 3) 4–5 White 3200K (wheel slot 4) 6–6 White 3200K Halogen (wheel slot 5) 7–9 White 4200K (wheel slot 6) 10–12 White 5600K (wheel slot 7) 13–15 White 8000K (wheel slot 8) 16–55 Blue (wheel slot 9) 56–95 Light Blue (wheel slot 10) 96–134 Green (wheel slot 11) 135–174 Yellow (wheel slot 12) 175–214 Red (wheel slot 13) 215–246 Magenta (wheel slot 14) 247–247 Blue (wheel slot 15) 248–248 Rainbow (fade time) 249–249 Rainbow 250–250 Zone effect 1 251–251 Zone effect 2 252–252 Zone effect 3 253–253 Zone effect 4 254–254 Zone effect 5 255–255 Zone effect 6
33	Dummy	0	
34	Dummy Fine	0	Fine byte of Dummy

Mode 6 Compatible with LW600 mode 1 (continued)

Ch	Function	Default	DMX values
35	Shutter / Strobe	225	0–31 Shutter closed 32–63 Strobe slow to fast (zone 2 + 3) 64–95 Strobe slow to fast (all zones) 96–111 Strobe · Effect + rainbow speed slow to fast 7.06–8.... 112–127 Strobe · Effect + rainbow speed fast to slow 8.58–1... 128–143 Strobe Opening slow to fast 144–159 Strobe Closing fast to slow 160–175 Random Strobe slow to fast (random zone) 176–191 Random Strobe slow to fast (random zone + rando... 192–224 Random Strobe slow to fast (all zones) 225–255 Shutter Open
36	Dimmer	0	0–254 Closed (wheel slot -2147483648) 255–255 Open (wheel slot -2147483648)
37	Dimmer Fine	0	Fine byte of Dimmer