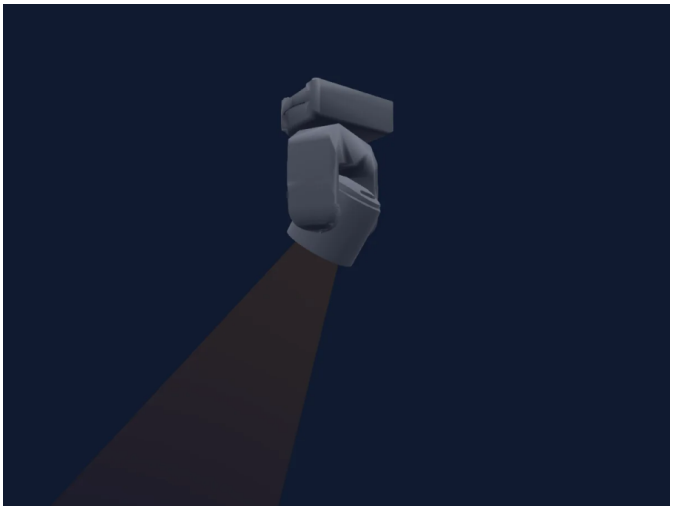
Robe Lighting

Robin iBeam 250



Manufacturer	**Robe Lighting**
Type	**Moving head**
DMX modes	**3**
DMX footprint	**16, 22, 24 channels**
Beam angle	**3.8-60°**
Pan range	**540°**
Tilt range	**228°**
Size (W × H × D)	**232 × 227 × 226 mm**
GDTF fixture type	**CCAB3DB1-6FD4-4221-897B-D...**

Controls

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

DMX modes

Mode 2 - Reduced 8 - bit	16 ch
Mode 1 - Standard 16 - bit	22 ch
Mode 3 - Cpulse mode	24 ch

Mode 2 - Reduced 8 - bit

16 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	0–19 No feature 20–24 Display ON 25–29 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 90–94 NoFeature 1 95–99 Pan 540deg 100–104 Pan 450deg 105–109 Fans On at blackout 110–114 Fans Off at blackout 115–129 NoFeature 2 130–139 NoFeature 3 140–149 Pan/Tilt reset 150–159 Zoom reset 160–169 NoFeature 4 170–171 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 182–199 NoFeature 5 200–209 Total fixture reset 210–218 NoFeature 6 219–220 RoboSpot enabled 221–222 RoboSpot disabled except handle faders and PT 223–224 RoboSpot fully disabled 225–239 NoFeature 7 240–240 Disabled Quiet mode 241–255 Quiet mode min to max
7	Color Macro1	0	
8	Red	255	
9	Green	255	
10	Blue	255	
11	White	255	
12	C TO	0	0–254 8000K 255–255 2700K

Mode 2 - Reduced 8 - bit (continued)

Ch	Function	Default	DMX values
13	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 (Virtual - Colour mix) 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)
14	Zoom	128	0–254 Wide 255–255 Narrow
15	Shutter / Strobe	32	0–31 Shutter closed 32–63 Shutter open 64–74 Shutter1Strobe · Slow to fast 1/10 0.1–3.29 Hz 75–91 Shutter1Strobe · Slow to fast 5/10 3.61–8.72 Hz 92–95 Shutter1Strobe · Slow to fast 10/10 9.04–10 Hz 96–127 Shutter open 128–134 Shutter1StrobePulseOpen · Slow to fast 1/7 0.1–4.... 135–140 Shutter1StrobePulseOpen · Slow to fast 4/7 4.72–8... 141–143 Shutter1StrobePulseOpen · Slow to fast 7/7 8.68–1... 144–149 Shutter1StrobePulseClose · Fast to slow 1/7 150–155 Shutter1StrobePulseClose · Fast to slow 4/7 156–159 Shutter1StrobePulseClose · Fast to slow 7/7 160–191 Shutter open 192–222 Strobe random slow 223–223 Strobe random fast 224–255 Shutter open
16	Dimmer	0	0–254 Closed 255–255 Open

Mode 1 - Standard 16 - bit

22 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 - Standard 16 - bit (continued)

Ch	Function	Default	DMX values
6	Control1	0	0–19 No feature 20–24 Display ON 25–29 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 90–94 NoFeature 1 95–99 Pan 540deg 100–104 Pan 450deg 105–109 Fans On at blackout 110–114 Fans Off at blackout 115–129 NoFeature 2 130–139 NoFeature 3 140–149 Pan/Tilt reset 150–159 Zoom reset 160–169 NoFeature 4 170–171 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 182–199 NoFeature 5 200–209 Total fixture reset 210–218 NoFeature 6 219–220 RoboSpot enabled 221–222 RoboSpot disabled except handle faders and PT 223–224 RoboSpot fully disabled 225–239 NoFeature 7 240–240 Disabled Quiet mode 241–255 Quiet mode min to max
7	Color Macro1	0	
8	Red	255	
9	Red Fine	255	Fine byte of Red
10	Green	255	
11	Green Fine	255	Fine byte of Green
12	Blue	255	
13	Blue Fine	255	Fine byte of Blue
14	White	255	
15	White Fine	255	Fine byte of White
16	C TO	0	0–254 8000K 255–255 2700K

Mode 1 - Standard 16 - bit (continued)

Ch	Function	Default	DMX values
17	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 (Virtual - Colour mix) 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)
18	Zoom	128	0–254 Wide 255–255 Narrow
19	Zoom Fine	0	Fine byte of Zoom
20	Shutter / Strobe	32	0–31 Shutter closed 32–63 Shutter open 64–74 Shutter1Strobe · Slow to fast 1/10 0.1–3.29 Hz 75–91 Shutter1Strobe · Slow to fast 5/10 3.61–8.72 Hz 92–95 Shutter1Strobe · Slow to fast 10/10 9.04–10 Hz 96–127 Shutter open 128–134 Shutter1StrobePulseOpen · Slow to fast 1/7 0.1–4.... 135–140 Shutter1StrobePulseOpen · Slow to fast 4/7 4.72–8... 141–143 Shutter1StrobePulseOpen · Slow to fast 7/7 8.68–1... 144–149 Shutter1StrobePulseClose · Fast to slow 1/7 150–155 Shutter1StrobePulseClose · Fast to slow 4/7 156–159 Shutter1StrobePulseClose · Fast to slow 7/7 160–191 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
22	Dimmer Fine	0	Fine byte of Dimmer

Mode 3 - Cpulse mode

24 channels

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

Mode 3 - Cpulse mode (continued)

Ch	Function	Default	DMX values
6	Control1	0	0–19 No feature 20–24 Display ON 25–29 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 90–94 NoFeature 1 95–99 Pan 540deg 100–104 Pan 450deg 105–109 Fans On at blackout 110–114 Fans Off at blackout 115–129 NoFeature 2 130–139 NoFeature 3 140–149 Pan/Tilt reset 150–159 Zoom reset 160–169 NoFeature 4 170–171 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 182–199 NoFeature 5 200–209 Total fixture reset 210–218 NoFeature 6 219–220 RoboSpot enabled 221–222 RoboSpot disabled except handle faders and PT 223–224 RoboSpot fully disabled 225–239 NoFeature 7 240–240 Disabled Quiet mode 241–255 Quiet mode min to max
7	L EDFrequency	10	0–4 PWM frequency from Display menu 5–9 300 Hz 10–14 600 Hz 15–19 1200 Hz 20–24 2400 Hz 25–29 High 30–255 NoFeature
8	L EDFrequency Adjust	128	
9	Color Macro1	0	
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

Mode 3 - Cpulse mode (continued)

Ch	Function	Default	DMX values
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 (Virtual - Colour mix) 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	Zoom	128	0–254 Wide 255–255 Narrow
21	Zoom Fine	0	Fine byte of Zoom
22	Shutter / Strobe	32	0–31 Shutter closed 32–63 Shutter open 64–74 Shutter1Strobe · Slow to fast 1/10 0.1–3.29 Hz 75–91 Shutter1Strobe · Slow to fast 5/10 3.61–8.72 Hz 92–95 Shutter1Strobe · Slow to fast 10/10 9.04–10 Hz 96–127 Shutter open 128–134 Shutter1StrobePulseOpen · Slow to fast 1/7 0.1–4.... 135–140 Shutter1StrobePulseOpen · Slow to fast 4/7 4.72–8... 141–143 Shutter1StrobePulseOpen · Slow to fast 7/7 8.68–1... 144–149 Shutter1StrobePulseClose · Fast to slow 1/7 150–155 Shutter1StrobePulseClose · Fast to slow 4/7 156–159 Shutter1StrobePulseClose · Fast to slow 7/7 160–191 Shutter open 192–222 Strobe random slow 223–223 Strobe random fast 224–255 Shutter open
23	Dimmer	0	0–254 Closed 255–255 Open
24	Dimmer Fine	0	Fine byte of Dimmer