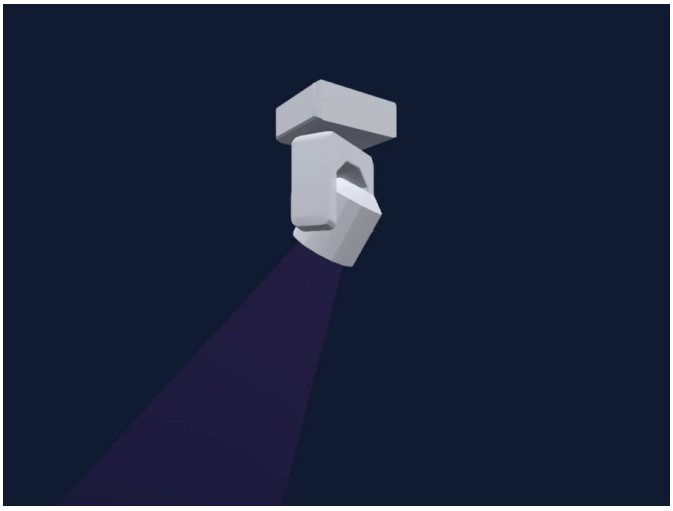
EK Lights

R3



Manufacturer	**EK Lights**
Type	**Moving head**
DMX modes	**2**
DMX footprint	**16, 20 channels**
Beam angle	**4-57°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**162 × 163 × 161 mm**
GDTF fixture type	**2F95C3E3-2E95-4966-9FB8-F1E…**

Controls

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

Safety-relevant functions

Fixture reset · Service functions

DMX modes

16CH	16 ch
20CH	20 ch

16CH

16 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	White	255	
5	C TO	0	0–9 No Function 10–53 8000K-7000K 54–98 7000K-6000K 99–116 6000K-5600K 117–143 5600K-5000K 144–187 5000K-4000K 188–223 4000K-3200K 224–254 3200K-2500K 255–255 2500K
6	Color Effects1	0	0–10 No Function 11–255 ColorMacro
7	Shutter / Strobe	252	0–3 Closed 4–102 Strobe · Min 1–11.9 Hz 103–103 Strobe · Max 12 Hz 104–107 Open1 108–206 Pulse Strobe · Min 1–11.9 Hz 207–207 Pulse Strobe · Max 12 Hz 208–212 Open2 213–250 Random Strobe · Min 1–11.7 Hz 251–251 Random Strobe · Max 12 Hz 252–255 Open3
8	Dimmer	0	0–254 Closed 255–255 Open
9	Dimmer Fine	0	Fine byte of Dimmer
10	Pan	84	
11	Pan Fine	230	Fine byte of Pan
12	Tilt	128	
13	Tilt Fine	0	Fine byte of Tilt
14	Zoom	0	
15	Function	0	0–11 No Function 12–24 Pan/Tilt Fast Speed 25–37 Pan/Tilt Normal Speed 38–42 Dimmer Curve 1 43–47 Dimmer Curve 2 48–52 Dimmer Curve 3 53–57 Dimmer Curve 4 58–62 Gamma Curve 1 63–67 Gamma Curve 2 68–72 Gamma Curve 3 73–77 Color Correction Off 78–82 Color Adjust 83–87 Factory Calibration 88–167 FREE 168–188 PWM 600HZ 189–199 PWM 1200HZ 200–210 PWM 2000HZ 211–221 PWM 4000HZ 222–232 PWM 6000HZ 233–243 PWM 25000HZ 244–255 Reply To Default

16CH (continued)

Ch	Function	Default	DMX values
16	Fixture Global Reset	0	0–25 No Function 26–76 Zoom Reset (Hold 5s) 77–127 Pan/Tilt Reset (Hold 5s) 128–255 All Reset (Hold 5s)

20CH

20 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Red Fine	255	Fine byte of Red
3	Green	255	
4	Green Fine	255	Fine byte of Green
5	Blue	255	
6	Blue Fine	255	Fine byte of Blue
7	White	255	
8	White Fine	255	Fine byte of White
9	C TO	0	0–9 No Function 10–53 8000K-7000K 54–98 7000K-6000K 99–116 6000K-5600K 117–143 5600K-5000K 144–187 5000K-4000K 188–223 4000K-3200K 224–254 3200K-2500K 255–255 2500K
10	Color Effects1	0	0–10 No Function 11–255 ColorMacro
11	Shutter / Strobe	252	0–3 Closed 4–102 Strobe · Min 1–11.9 Hz 103–103 Strobe · Max 12 Hz 104–107 Open1 108–206 Pulse Strobe · Min 1–11.9 Hz 207–207 Pulse Strobe · Max 12 Hz 208–212 Open2 213–250 Random Strobe · Min 1–11.7 Hz 251–251 Random Strobe · Max 12 Hz 252–255 Open3
12	Dimmer	0	0–254 Closed 255–255 Open
13	Dimmer Fine	0	Fine byte of Dimmer
14	Pan	84	
15	Pan Fine	230	Fine byte of Pan
16	Tilt	128	
17	Tilt Fine	0	Fine byte of Tilt
18	Zoom	0	

20CH (continued)

Ch	Function	Default	DMX values
19	Function	0	0–11 No Function 12–24 Pan/Tilt Fast Speed 25–37 Pan/Tilt Normal Speed 38–42 Dimmer Curve 1 43–47 Dimmer Curve 2 48–52 Dimmer Curve 3 53–57 Dimmer Curve 4 58–62 Gamma Curve 1 63–67 Gamma Curve 2 68–72 Gamma Curve 3 73–77 Color Correction Off 78–82 Color Adjust 83–87 Factory Calibration 88–167 FREE 168–188 PWM 600HZ 189–199 PWM 1200HZ 200–210 PWM 2000HZ 211–221 PWM 4000HZ 222–232 PWM 6000HZ 233–243 PWM 25000HZ 244–255 Reply To Default
20	Fixture Global Reset	0	0–25 No Function 26–76 Zoom Reset (Hold 5s) 77–127 Pan/Tilt Reset (Hold 5s) 128–255 All Reset (Hold 5s)