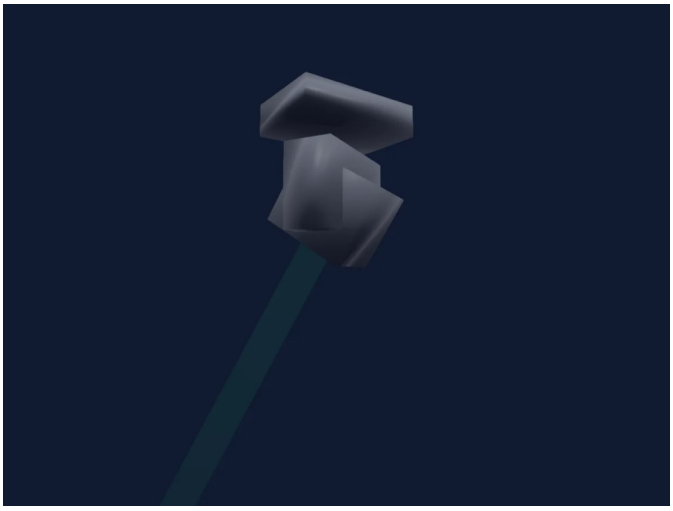
EK Lights

K4 Beam



Manufacturer	**EK Lights**
Type	**Moving head**
DMX modes	**2**
DMX footprint	**13, 14 channels**
Beam angle	**2.3°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**180 × 200 × 220 mm**
GDTF fixture type	**6F904B21-40F5-4330-82E5-9EE…**

Controls

Focus · Frost · Prism · Prism rotation · Colour wheel · Strobe · Dimmer · Pan and tilt · Gobos

DMX modes

13CH	13 ch
14CH	14 ch

13CH

13 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	128	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	128	Fine byte of Tilt
5	P TSpeed	0	
6	Shutter / Strobe	255	0–10 Closed 11–30 Open1 31–84 Shutter1Strobe 3 · Min 0–11.8 Hz 85–85 Shutter1Strobe 3 · Max 12 Hz 86–105 Open2 106–159 Shutter1StrobePulse 5 · Min 0–11.8 Hz 160–160 Shutter1StrobePulse 5 · Max 12 Hz 161–180 Open3 181–234 Shutter1StrobeRandom 7 · Min 0–11.8 Hz 235–235 Shutter1StrobeRandom 7 · Max 12 Hz 236–255 Open4
7	Dimmer	0	0–254 Closed 255–255 Open
8	Color Wheel	0	0–8 Open (wheel slot 1) 9–16 Color 1 (wheel slot 2) 17–25 Color 2 (wheel slot 3) 26–33 Color 3 (wheel slot 4) 34–42 Color 4 (wheel slot 5) 43–50 Color 5 (wheel slot 6) 51–59 Color 6 (wheel slot 7) 60–67 Color 7 (wheel slot 8) 68–76 Color 8 (wheel slot 9) 77–84 Color 9 (wheel slot 10) 85–93 Color 10 (wheel slot 11) 94–101 Color 11 (wheel slot 12) 102–110 Color 12 (wheel slot 13) 111–118 Color 13 (wheel slot 14) 119–127 Color 14 (wheel slot 15) 128–189 CW 190–193 Stop 194–255 CCW

13CH (continued)

Ch	Function	Default	DMX values
9	Gobo	0	0–0 Open (wheel slot 1) 1–1 Gobo 1 (wheel slot 2) 2–2 Gobo 2 (wheel slot 3) 3–3 Gobo 3 (wheel slot 4) 4–4 Gobo 4 (wheel slot 5) 5–5 Gobo 5 (wheel slot 6) 6–6 Gobo 6 (wheel slot 7) 7–7 Gobo 7 (wheel slot 8) 8–8 Gobo 8 (wheel slot 9) 9–9 Gobo 9 (wheel slot 10) 10–10 Gobo 10 (wheel slot 11) 11–12 Gobo 11 (wheel slot 12) 13–13 Gobo 12 (wheel slot 13) 14–14 Gobo 13 (wheel slot 14) 15–15 Gobo 14 (wheel slot 15) 16–16 Gobo 15 (wheel slot 16) 17–17 Gobo 16 (wheel slot 17) 18–18 Gobo 17 (wheel slot 18) 19–19 Gobo 18 (wheel slot 19) 20–20 Gobo 19 (wheel slot 20) 21–21 Gobo 20 (wheel slot 21) 22–22 Gobo 21 (wheel slot 22) 23–28 Gobo 1 (wheel slot 2) 29–34 Gobo 2 (wheel slot 3) 35–40 Gobo 3 (wheel slot 4) 41–46 Gobo 4 (wheel slot 5) 47–52 Gobo 5 (wheel slot 6) 53–58 Gobo 6 (wheel slot 7) 59–64 Gobo 7 (wheel slot 8) 65–70 Gobo 8 (wheel slot 9) 71–76 Gobo 9 (wheel slot 10) 77–82 Gobo 10 (wheel slot 11) 83–88 Gobo 11 (wheel slot 12) 89–94 Gobo 12 (wheel slot 13) 95–100 Gobo 13 (wheel slot 14) 101–106 Gobo 14 (wheel slot 15) 107–112 Gobo 15 (wheel slot 16) 113–118 Gobo 16 (wheel slot 17) 119–124 Gobo 17 (wheel slot 18) 125–130 Gobo 18 (wheel slot 19) 131–136 Gobo 19 (wheel slot 20) 137–142 Gobo 20 (wheel slot 21) 143–148 Gobo 21 (wheel slot 22) 149–201 CW 202–202 Stop 203–255 CCW
10	Prism	0	0–0 Open 1–127 Prism Index 128–189 CW 190–193 Stop 194–255 CCW
11	Frost1	0	
12	Focus	0	0–127 Min 128–254 Medium 255–255 Max

13CH (continued)

Ch	Function	Default	DMX values
13	Control1	0	0–39 No Function 40–49 Enable blackout while Pan/Tilt move (Hold 3 Second) 50–59 Disable blackout while Pan/Tilt move (Hold 3 Second) 60–69 Enable blackout while color change (Hold 3 Second) 70–79 Disable blackout while color change (Hold 3 Second) 80–89 Enable blackout while gobo change (Hold 3 Second) 90–99 Disable blackout while gobo change (Hold 3 Second) 100–109 Pan Reset (Hold 3 Second) 110–119 Tilt Reset (Hold 3 Second) 120–129 Color Reset (Hold 3 Second) 130–139 Gobo Reset (Hold 3 Second) 140–149 Focus Reset (Hold 3 Second) 150–159 Prism Reset (Hold 3 Second) 160–169 Frost Reset(Hold 3 Second) 170–179 Reset all (Hold 3 Second) 180–255 No Function

14CH

14 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	128	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	128	Fine byte of Tilt
5	P TSpeed	0	
6	Shutter / Strobe	255	0–10 Closed 11–30 Open1 31–84 Shutter1Strobe 3 · Min 0–11.8 Hz 85–85 Shutter1Strobe 3 · Max 12 Hz 86–105 Open2 106–159 Shutter1StrobePulse 5 · Min 0–11.8 Hz 160–160 Shutter1StrobePulse 5 · Max 12 Hz 161–180 Open3 181–234 Shutter1StrobeRandom 7 · Min 0–11.8 Hz 235–235 Shutter1StrobeRandom 7 · Max 12 Hz 236–255 Open4
7	Dimmer	0	0–254 Closed 255–255 Open
8	Color Wheel	0	0–8 Open (wheel slot 1) 9–16 Color 1 (wheel slot 2) 17–25 Color 2 (wheel slot 3) 26–33 Color 3 (wheel slot 4) 34–42 Color 4 (wheel slot 5) 43–50 Color 5 (wheel slot 6) 51–59 Color 6 (wheel slot 7) 60–67 Color 7 (wheel slot 8) 68–76 Color 8 (wheel slot 9) 77–84 Color 9 (wheel slot 10) 85–93 Color 10 (wheel slot 11) 94–101 Color 11 (wheel slot 12) 102–110 Color 12 (wheel slot 13) 111–118 Color 13 (wheel slot 14) 119–127 Color 14 (wheel slot 15) 128–189 CW 190–193 Stop 194–255 CCW

14CH (continued)

Ch	Function	Default	DMX values
9	Gobo	0	0–0 Open (wheel slot 1) 1–1 Gobo 1 (wheel slot 2) 2–2 Gobo 2 (wheel slot 3) 3–3 Gobo 3 (wheel slot 4) 4–4 Gobo 4 (wheel slot 5) 5–5 Gobo 5 (wheel slot 6) 6–6 Gobo 6 (wheel slot 7) 7–7 Gobo 7 (wheel slot 8) 8–8 Gobo 8 (wheel slot 9) 9–9 Gobo 9 (wheel slot 10) 10–10 Gobo 10 (wheel slot 11) 11–12 Gobo 11 (wheel slot 12) 13–13 Gobo 12 (wheel slot 13) 14–14 Gobo 13 (wheel slot 14) 15–15 Gobo 14 (wheel slot 15) 16–16 Gobo 15 (wheel slot 16) 17–17 Gobo 16 (wheel slot 17) 18–18 Gobo 17 (wheel slot 18) 19–19 Gobo 18 (wheel slot 19) 20–20 Gobo 19 (wheel slot 20) 21–21 Gobo 20 (wheel slot 21) 22–22 Gobo 21 (wheel slot 22) 23–28 Gobo 1 (wheel slot 2) 29–34 Gobo 2 (wheel slot 3) 35–40 Gobo 3 (wheel slot 4) 41–46 Gobo 4 (wheel slot 5) 47–52 Gobo 5 (wheel slot 6) 53–58 Gobo 6 (wheel slot 7) 59–64 Gobo 7 (wheel slot 8) 65–70 Gobo 8 (wheel slot 9) 71–76 Gobo 9 (wheel slot 10) 77–82 Gobo 10 (wheel slot 11) 83–88 Gobo 11 (wheel slot 12) 89–94 Gobo 12 (wheel slot 13) 95–100 Gobo 13 (wheel slot 14) 101–106 Gobo 14 (wheel slot 15) 107–112 Gobo 15 (wheel slot 16) 113–118 Gobo 16 (wheel slot 17) 119–124 Gobo 17 (wheel slot 18) 125–130 Gobo 18 (wheel slot 19) 131–136 Gobo 19 (wheel slot 20) 137–142 Gobo 20 (wheel slot 21) 143–148 Gobo 21 (wheel slot 22) 149–201 CW 202–202 Stop 203–255 CCW
10	Prism	0	0–20 Open 21–127 Index 128–255 Rotation
11	Prism Rotation	0	0–127 Index0-360 128–128 Stopt 129–255 CCW
12	Frost1	0	
13	Focus	0	0–127 Min 128–254 Medium 255–255 Max

14CH (continued)

Ch	Function	Default	DMX values
14	Control1	0	0–39 No Function 40–49 Enable blackout while Pan/Tilt move (Hold 3 Second) 50–59 Disable blackout while Pan/Tilt move (Hold 3 Second) 60–69 Enable blackout while color change (Hold 3 Second) 70–79 Disable blackout while color change (Hold 3 Second) 80–89 Enable blackout while gobo change (Hold 3 Second) 90–99 Disable blackout while gobo change (Hold 3 Second) 100–109 Pan Reset (Hold 3 Second) 110–119 Tilt Reset (Hold 3 Second) 120–129 Color Reset (Hold 3 Second) 130–139 Gobo Reset (Hold 3 Second) 140–149 Focus Reset (Hold 3 Second) 150–159 Prism Reset (Hold 3 Second) 160–169 Frost Reset(Hold 3 Second) 170–179 Reset all (Hold 3 Second) 180–255 No Function