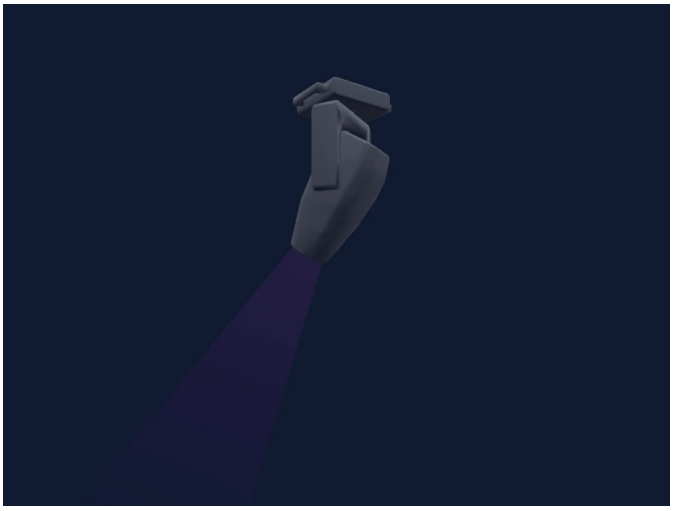
EK Lights

KX-100



Manufacturer	**EK Lights**
Type	**Profile spot**
DMX modes	**2**
DMX footprint	**34, 36 channels**
Beam angle	**4.8-48°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**328 × 637 × 297 mm**
GDTF fixture type	**946B9255-6004-4B36-8477-9C…**

Controls

Focus · Frost · Iris · Prism · Prism rotation · Zoom · CMY colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Animation wheel · Gobos · Gobo rotation

Safety-relevant functions

Fixture reset

DMX modes

34CH	34 ch
36CH	36 ch

34CH

34 channels

Ch	Function	Default	DMX values
1	Pan	128	0–126 Min 127–254 Home 255–255 Max
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	0–126 Min 127–254 Home 255–255 Max
4	Tilt Fine	0	Fine byte of Tilt
5	Shutter / Strobe	255	0–10 Closed 11–11 STEOBE strobe · Slow 0 Hz 12–81 STEOBE strobe · Slow > Fast 0.423–29.6 Hz 82–82 STEOBE strobe · Fast 30 Hz 83–93 open 94–163 Pulse-effect in sequences 164–174 Open 175–175 STROBE RANDOM · Slow 0 Hz 176–242 STROBE RANDOM · Slow > Fast 0.441–29.6 Hz 243–243 STROBE RANDOM · Fast 30 Hz 244–255 Open
6	Dimmer	0	
7	Dimmer Fine	0	Fine byte of Dimmer
8	Cyan	0	0–0 Min 1–254 Min > Max 255–255 Max
9	Magenta	0	0–0 Min 1–254 Min > Max 255–255 Max
10	Yellow	0	0–0 Min 1–254 Min > Max 255–255 Max
11	C TO	0	0–0 Min 1–254 Min > Max 255–255 Max
12	Color Wheel	0	0–18 White (wheel slot 1) 19–36 Color1 (wheel slot 2) 37–54 Color2 (wheel slot 3) 55–72 Color3 (wheel slot 4) 73–90 Color4 (wheel slot 5) 91–108 Color5 (wheel slot 6) 109–127 Color6 (wheel slot 7) 128–190 F > S - Rotate CW 191–192 Stop 193–255 S > F - Rotate CCW
13	Gobo	0	0–5 Open (wheel slot 1) 6–11 Gobo 1 (wheel slot 2) 12–17 Gobo 2 (wheel slot 3) 18–22 Gobo 3 (wheel slot 4) 23–28 Gobo 4 (wheel slot 5) 29–34 Gobo 5 (wheel slot 6) 35–40 Gobo 6 (wheel slot 7) 41–58 Gobo 1 Shake (wheel slot 2) 59–75 Gobo 2 Shake (wheel slot 3) 76–93 Gobo 3 Shake (wheel slot 4) 94–110 Gobo 4 Shake (wheel slot 5) 111–127 Gobo 5 Shake (wheel slot 6) 128–145 Gobo 6 Shake (wheel slot 7) 146–200 F > S - Rotate CW 201–255 S > F - Rotate CCW

34CH (continued)

Ch	Function	Default	DMX values
14	Gobo Rotation	0	0–190 Min 191–191 Max 192–221 F > S - Rotate CW 222–225 Stop 226–255 S > F - Rotate CCW
15	Gobo 2	0	0–5 Open (wheel slot 1) 6–11 Gobo 1 (wheel slot 2) 12–17 Gobo 2 (wheel slot 3) 18–22 Gobo 3 (wheel slot 4) 23–28 Gobo 4 (wheel slot 5) 29–34 Gobo 5 (wheel slot 6) 35–40 Gobo 6 (wheel slot 7) 41–45 Gobo 7 (wheel slot 8) 46–63 Gobo 1 Shake (wheel slot 2) 64–81 Gobo 2 Shake (wheel slot 3) 82–99 Gobo 3 Shake (wheel slot 4) 100–117 Gobo 4 Shake (wheel slot 5) 118–135 Gobo 5 Shake (wheel slot 6) 136–153 Gobo 6 Shake (wheel slot 7) 154–165 Gobo 7 Shake (wheel slot 8) 166–210 S > F - Rotate CW 211–255 S > F - Rotate CCW
16	Prism	0	0–127 Open 128–255 4F Circular (wheel slot 1)
17	Prism Rotation	0	1–191 Prism Index 192–223 F > S - Rotate CW (wheel slot 1) 224–255 S > F - Rotate CCW (wheel slot 1)
18	Frost1	0	1–1 Min 2–254 Min > Max 255–255 Max
19	Focus	0	
20	Focus Fine	0	Fine byte of Focus
21	Zoom	0	0–126 Narrow 127–254 Narrow>Wide 255–255 Wide
22	Zoom Fine	0	Fine byte of Zoom
23	Animation Wheel1	0	0–3 Open 4–127 F > S - Rotate CW 128–131 Stop 132–255 S > F - Rotate CCW
24	Iris	0	0–30 Max 31–62 Medium 63–63 Min 64–127 Effect 1 128–191 Effect 2 192–255 Effect 3
25	Shaper Rot	0	0–127 Min 128–254 Min > Max 255–255 Max
26	Blade1A	0	0–0 Min 1–254 Min > Max 255–255 Max
27	Blade1B	0	0–0 Min 1–254 Min > Max 255–255 Max

34CH (continued)

Ch	Function	Default	DMX values
28	Blade2A	0	0–0 Min 1–254 Min > Max 255–255 Max
29	Blade2B	0	0–126 Min 127–254 Min > Max 255–255 Max
30	Blade3A	0	0–0 Min 1–254 Min > Max 255–255 Max
31	Blade3B	0	0–126 Min 127–254 Min > Max 255–255 Max
32	Blade4A	0	0–0 Min 1–254 Min > Max 255–255 Max
33	Blade4B	0	0–127 Min 128–254 Min > Max 255–255 Max
34	Control1	0	0–20 TBD 21–25 Dimmer Mode Off 26–30 Dimmer Mode 1 31–35 Dimmer Mode 2 36–40 Dimmer Mode 3 41–50 TBD 51–55 Linear 56–60 Square 61–65 Inverse Square 66–70 S-Curve 71–130 TBD 131–135 Fan Standard 136–140 Fan Silent 141–200 TBD 201–205 Complete Reset 206–210 Pan/Tilt Reset 211–215 Head Reset 216–255 TBD

36CH

36 channels

Ch	Function	Default	DMX values
1	Pan	128	0–126 Min 127–254 Home 255–255 Max
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	0–126 Min 127–254 Home 255–255 Max
4	Tilt Fine	0	Fine byte of Tilt

36CH (continued)

Ch	Function	Default	DMX values
5	Shutter / Strobe	255	0–10 Closed 11–11 STEOBE strobe · Slow 0 Hz 12–81 STEOBE strobe · Slow > Fast 0.423–29.6 Hz 82–82 STEOBE strobe · Fast 30 Hz 83–93 open 94–163 Pulse-effect in sequences 164–174 Open 175–175 STROBE RANDOM · Slow 0 Hz 176–242 STROBE RANDOM · Slow > Fast 0.441–29.6 Hz 243–243 STROBE RANDOM · Fast 30 Hz 244–255 Open
6	Dimmer	0	
7	Dimmer Fine	0	Fine byte of Dimmer
8	Video Hue Shift	0	0–0 0 1–1 -25 2–254 -25 Thru 25 255–255 25
9	C TB	0	0–0 Default 1–255 6000K-6300K
10	Cyan	0	0–0 Min 1–254 Min > Max 255–255 Max
11	Magenta	0	0–0 Min 1–254 Min > Max 255–255 Max
12	Yellow	0	0–0 Min 1–254 Min > Max 255–255 Max
13	C TO	0	0–0 Min 1–254 Min > Max 255–255 Max
14	Color Wheel	0	0–18 White (wheel slot 1) 19–36 Color1 (wheel slot 2) 37–54 Color2 (wheel slot 3) 55–72 Color3 (wheel slot 4) 73–90 Color4 (wheel slot 5) 91–108 Color5 (wheel slot 6) 109–127 Color6 (wheel slot 7) 128–190 F > S - Rotate CW 191–192 Stop 193–255 S > F - Rotate CCW
15	Gobo	0	0–5 Open (wheel slot 1) 6–11 Gobo 1 (wheel slot 2) 12–17 Gobo 2 (wheel slot 3) 18–22 Gobo 3 (wheel slot 4) 23–28 Gobo 4 (wheel slot 5) 29–34 Gobo 5 (wheel slot 6) 35–40 Gobo 6 (wheel slot 7) 41–58 Gobo 1 Shake (wheel slot 2) 59–75 Gobo 2 Shake (wheel slot 3) 76–93 Gobo 3 Shake (wheel slot 4) 94–110 Gobo 4 Shake (wheel slot 5) 111–127 Gobo 5 Shake (wheel slot 6) 128–145 Gobo 6 Shake (wheel slot 7) 146–200 F > S - Rotate CW 201–255 S > F - Rotate CCW

36CH (continued)

Ch	Function	Default	DMX values
16	Gobo Rotation	0	0–190 Min 191–191 Max 192–221 F > S - Rotate CW 222–225 Stop 226–255 S > F - Rotate CCW
17	Gobo 2	0	0–5 Open (wheel slot 1) 6–11 Gobo 1 (wheel slot 2) 12–17 Gobo 2 (wheel slot 3) 18–22 Gobo 3 (wheel slot 4) 23–28 Gobo 4 (wheel slot 5) 29–34 Gobo 5 (wheel slot 6) 35–40 Gobo 6 (wheel slot 7) 41–45 Gobo 7 (wheel slot 8) 46–63 Gobo 1 Shake (wheel slot 2) 64–81 Gobo 2 Shake (wheel slot 3) 82–99 Gobo 3 Shake (wheel slot 4) 100–117 Gobo 4 Shake (wheel slot 5) 118–135 Gobo 5 Shake (wheel slot 6) 136–153 Gobo 6 Shake (wheel slot 7) 154–165 Gobo 7 Shake (wheel slot 8) 166–210 S > F - Rotate CW 211–255 S > F - Rotate CCW
18	Prism	0	0–127 Open 128–255 4F Circular (wheel slot 1)
19	Prism Rotation	0	1–191 Prism Index 192–223 F > S - Rotate CW (wheel slot 1) 224–255 S > F - Rotate CCW (wheel slot 1)
20	Frost1	0	1–1 Min 2–254 Min > Max 255–255 Max
21	Focus	0	
22	Focus Fine	0	Fine byte of Focus
23	Zoom	0	0–126 Narrow 127–254 Narrow>Wide 255–255 Wide
24	Zoom Fine	0	Fine byte of Zoom
25	Animation Wheel1	0	0–3 Open 4–127 F > S - Rotate CW 128–131 Stop 132–255 S > F - Rotate CCW
26	Iris	0	0–30 Max 31–62 Medium 63–63 Min 64–127 Effect 1 128–191 Effect 2 192–255 Effect 3
27	Shaper Rot	0	0–127 Min 128–254 Min > Max 255–255 Max
28	Blade1A	0	0–0 Min 1–254 Min > Max 255–255 Max
29	Blade1B	0	0–0 Min 1–254 Min > Max 255–255 Max

36CH (continued)

Ch	Function	Default	DMX values
30	Blade2A	0	0–0 Min 1–254 Min > Max 255–255 Max
31	Blade2B	0	0–126 Min 127–254 Min > Max 255–255 Max
32	Blade3A	0	0–0 Min 1–254 Min > Max 255–255 Max
33	Blade3B	0	0–126 Min 127–254 Min > Max 255–255 Max
34	Blade4A	0	0–0 Min 1–254 Min > Max 255–255 Max
35	Blade4B	0	0–127 Min 128–254 Min > Max 255–255 Max
36	Control1	0	0–20 TBD 21–25 Dimmer Mode Off 26–30 Dimmer Mode 1 31–35 Dimmer Mode 2 36–40 Dimmer Mode 3 41–50 TBD 51–55 Linear 56–60 Square 61–65 Inverse Square 66–70 S-Curve 71–130 TBD 131–135 Fan Standard 136–140 Fan Silent 141–200 TBD 201–205 Complete Reset 206–210 Pan/Tilt Reset 211–215 Head Reset 216–255 TBD