EK Lights

K65



Manufacturer	**EK Lights**
Type	**Profile spot**
DMX modes	**2**
DMX footprint	**39, 41 channels**
Beam angle	**5-50°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**280 × 552 × 300 mm**
GDTF fixture type	**60A01EA1-5F7C-4DEA-BD07-F…**

Controls

Focus · Frost · Iris · Prism · Prism rotation · Zoom · CMY colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Pan and tilt · Movement speed · Animation wheel · Gobos · Gobo rotation

Safety-relevant functions

Fixture reset

DMX modes

39CH	39 ch
41 CH	41 ch

39CH

39 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	0–99 Slow 100–199 Mid 200–250 Fast 251–255 Blackout
6	Shutter / Strobe	255	0–10 Open 11–82 Pulse 83–93 Open 94–163 Pulse Effect 164–174 Open 175–243 Shutter1 Strobe Random · Rendom 0–15 Hz 244–255 Open
7	Dimmer	0	0–254 Closed 255–255 Open
8	Dimmer Fine	0	Fine byte of Dimmer
9	Dimmer Mode	0	0–51 No Function 52–101 Dimmer 1 102–152 Dimmer 2 153–203 Dimmer 3 204–255 Dimmer 4
10	Cyan	0	0–63 0% 64–127 25% 128–191 50% 192–254 75% 255–255 100%
11	Magenta	0	0–63 0% 64–127 25% 128–191 50% 192–254 75% 255–255 100%
12	Yellow	0	0–63 0% 64–127 25% 128–191 50% 192–254 75% 255–255 100%
13	C TO	0	0–254 6700K 255–255 2800K
14	Color Wheel	0	0–9 Open (wheel slot 1) 10–18 Red (wheel slot 2) 19–27 Blue (wheel slot 3) 28–36 Green (wheel slot 4) 37–45 Orange (wheel slot 5) 46–54 Purple (wheel slot 6) 55–63 CTP (wheel slot 7) 64–95 CW Spin 96–127 CCW Spin 128–255 0-360

39CH (continued)

Ch	Function	Default	DMX values
15	Gobo	0	0–5 Open (wheel slot 1) 6–10 Gobo 1 (wheel slot 2) 11–15 Gobo 2 (wheel slot 3) 16–20 Gobo 3 (wheel slot 4) 21–25 Gobo 4 (wheel slot 5) 26–30 Gobo 5 (wheel slot 6) 31–35 Gobo 6 (wheel slot 7) 36–40 Gobo 7 (wheel slot 8) 41–55 Gobo 1 (wheel slot 2) 56–70 Gobo 2 (wheel slot 3) 71–85 Gobo 3 (wheel slot 4) 86–100 Gobo 4 (wheel slot 5) 101–115 Gobo 5 (wheel slot 6) 116–130 Gobo 6 (wheel slot 7) 131–145 Gobo 7 (wheel slot 8) 146–201 Index 202–239 Slow 240–255 Fast
16	Gobo Rotation	0	0–46 0 Degrees 47–94 90 Degrees 95–142 180 Degrees 143–190 270 Degrees 191–191 360 Degrees 192–221 cw 222–225 Static 226–255 ccw
17	Gobo 2	0	0–7 Open (wheel slot 1) 8–15 Gobo 1 (wheel slot 2) 16–23 Gobo 2 (wheel slot 3) 24–31 Gobo 3 (wheel slot 4) 32–39 Gobo 4 (wheel slot 5) 40–47 Gobo 5 (wheel slot 6) 48–55 Gobo 6 (wheel slot 7) 56–63 Gobo 7 (wheel slot 8) 64–71 Gobo 8 (wheel slot 9) 72–113 CW Spin 114–117 Stop 118–159 CCW Spin 160–171 Gobo 1 (wheel slot 2) 172–183 Gobo 2 (wheel slot 3) 184–195 Gobo 3 (wheel slot 4) 196–207 Gobo 4 (wheel slot 5) 208–219 Gobo 5 (wheel slot 6) 220–231 Gobo 6 (wheel slot 7) 232–243 Gobo 7 (wheel slot 8) 244–255 Gobo 8 (wheel slot 9)
18	Prism	0	0–127 Open (wheel slot 1) 128–255 4-Facet (wheel slot 2)
19	Prism Rotation	0	0–31 0 Degrees 32–63 90 Degrees 64–95 180 Degrees 96–126 270 Degrees 127–127 360 Degrees 128–188 Prism CW 189–193 Static 194–255 Prism CCW
20	Frost1	0	0–63 0% 64–127 25% 128–191 50% 192–254 75% 255–255 100%

39CH (continued)

Ch	Function	Default	DMX values
21	Focus	127	0–63 Far 64–254 Medium 255–255 Near
22	Focus Fine	255	Fine byte of Focus
23	Zoom	127	0–63 Narrow 64–254 Medium 255–255 Wide
24	Zoom Fine	255	Fine byte of Zoom
25	Animation Wheel1	0	0–254 Open 255–255 Insert
26	Animation Wheel1Pos	0	0–4 Open 5–127 CW 128–132 Stop 133–255 CCW
27	Iris	0	0–63 Large to Small 64–127 Open Effect 128–191 Close Effect 192–255 Random
28	Blade1A	0	
29	Blade1Rot	128	0–127 -25 Degrees 128–254 0 Degrees 255–255 25 Degrees
30	Blade2A	0	
31	Blade2Rot	128	0–127 -25 Degrees 128–254 0 Degrees 255–255 25 Degrees
32	Blade3A	0	
33	Blade3Rot	128	0–127 -25 Degrees 128–254 0 Degrees 255–255 25 Degrees
34	Blade4A	0	
35	Blade4Rot	128	0–127 -25 Degrees 128–254 0 Degrees 255–255 25 Degrees
36	Shaper Rot	0	0–127 Left 128–254 Centre 255–255 Right

39CH (continued)

Ch	Function	Default	DMX values
37	Shaper Macros	0	0–3 No Function 4–11 Macro 1 12–18 Macro 2 19–25 Macro 3 26–32 Macro 4 33–39 Macro 5 40–47 Macro 6 48–54 Macro 7 55–61 Macro 8 62–68 Macro 9 69–75 Macro 10 76–82 Macro 11 83–90 Macro 12 91–97 Macro 13 98–104 Macro 14 105–111 Macro 15 112–118 Macro 16 119–125 Macro 17 126–133 Macro 18 134–140 Macro 19 141–147 Macro 20 148–155 Macro 21 156–161 Macro 22 162–168 Macro 23 169–176 Macro 24 177–183 Macro 25 184–190 Macro 26 191–197 Macro 27 198–204 Macro 28 205–211 Macro 29 212–219 Macro 30 220–226 Macro 31 227–233 Macro 32 234–240 Macro 33 241–247 Macro 34 248–255 Macro 35
38	Shaper Macros Speed	0	0–254 Slow 255–255 Fast
39	Control1	0	0–25 No Function 26–76 Head Reset 77–127 P/T Reset 128–255 Reset All

41 CH

41 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	0–99 Slow 100–199 Mid 200–250 Fast 251–255 Blackout

41 CH (continued)

Ch	Function	Default	DMX values
6	Shutter / Strobe	255	0–10 Open 11–82 Pulse 83–93 Open 94–163 Pulse Effect 164–174 Open 175–243 Shutter1 Strobe Random · Rendom 0–15 Hz 244–255 Open
7	Dimmer	0	0–254 Closed 255–255 Open
8	Dimmer Fine	0	Fine byte of Dimmer
9	Dimmer Mode	0	0–51 No Function 52–101 Dimmer 1 102–152 Dimmer 2 153–203 Dimmer 3 204–255 Dimmer 4
10	Cyan	0	0–63 0% 64–127 25% 128–191 50% 192–254 75% 255–255 100%
11	Magenta	0	0–63 0% 64–127 25% 128–191 50% 192–254 75% 255–255 100%
12	Yellow	0	0–63 0% 64–127 25% 128–191 50% 192–254 75% 255–255 100%
13	C TO	0	0–254 6700K 255–255 2800K
14	Color Wheel	0	0–9 Open (wheel slot 1) 10–18 Red (wheel slot 2) 19–27 Blue (wheel slot 3) 28–36 Green (wheel slot 4) 37–45 Orange (wheel slot 5) 46–54 Purple (wheel slot 6) 55–63 CTP (wheel slot 7) 64–95 CW Spin 96–127 CCW Spin 128–255 0-360

41 CH (continued)

Ch	Function	Default	DMX values
15	Gobo	0	0–5 Open (wheel slot 1) 6–10 Gobo 1 (wheel slot 2) 11–15 Gobo 2 (wheel slot 3) 16–20 Gobo 3 (wheel slot 4) 21–25 Gobo 4 (wheel slot 5) 26–30 Gobo 5 (wheel slot 6) 31–35 Gobo 6 (wheel slot 7) 36–40 Gobo 7 (wheel slot 8) 41–55 Gobo 1 (wheel slot 2) 56–70 Gobo 2 (wheel slot 3) 71–85 Gobo 3 (wheel slot 4) 86–100 Gobo 4 (wheel slot 5) 101–115 Gobo 5 (wheel slot 6) 116–130 Gobo 6 (wheel slot 7) 131–145 Gobo 7 (wheel slot 8) 146–201 Index 202–239 Slow 240–255 Fast
16	Gobo Rotation	0	0–46 0 Degrees 47–94 90 Degrees 95–142 180 Degrees 143–190 270 Degrees 191–191 360 Degrees 192–221 CW 222–225 Static 226–255 CCW
17	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
18	Gobo 2	0	0–7 Open (wheel slot 1) 8–15 Gobo 1 (wheel slot 2) 16–23 Gobo 2 (wheel slot 3) 24–31 Gobo 3 (wheel slot 4) 32–39 Gobo 4 (wheel slot 5) 40–47 Gobo 5 (wheel slot 6) 48–55 Gobo 6 (wheel slot 7) 56–63 Gobo 7 (wheel slot 8) 64–71 Gobo 8 (wheel slot 9) 72–113 Reverse 114–117 Stop 118–159 Forward 160–171 Gobo 1 (wheel slot 2) 172–183 Gobo 2 (wheel slot 3) 184–195 Gobo 3 (wheel slot 4) 196–207 Gobo 4 (wheel slot 5) 208–219 Gobo 5 (wheel slot 6) 220–231 Gobo 6 (wheel slot 7) 232–243 Gobo 7 (wheel slot 8) 244–255 Gobo 8 (wheel slot 9)
19	Prism	0	0–127 Open (wheel slot 1) 128–255 4-Facet (wheel slot 2)
20	Prism Rotation	0	0–31 0 Degrees 32–63 90 Degrees 64–95 180 Degrees 96–126 270 Degrees 127–127 360 Degrees 128–188 Prism CW 189–193 Static 194–255 Prism CCW
21	Prism Rotation Fine	0	Fine byte of Prism Rotation

41 CH (continued)

Ch	Function	Default	DMX values
22	Frost1	0	0–63 0% 64–127 25% 128–191 50% 192–254 75% 255–255 100%
23	Focus	127	0–63 Far 64–254 Medium 255–255 Near
24	Focus Fine	255	Fine byte of Focus
25	Zoom	127	0–63 Narrow 64–254 Medium 255–255 Wide
26	Zoom Fine	255	Fine byte of Zoom
27	Animation Wheel1	0	0–254 Open 255–255 Insert
28	Animation Wheel1Pos	0	0–4 Open 5–127 CW 128–132 Stop 133–255 CCW
29	Iris	0	0–63 Large to Small 64–127 Open Effect 128–191 Close Effect 192–255 Random
30	Blade1A	0	
31	Blade1Rot	128	0–127 -25 Degrees 128–254 0 Degrees 255–255 25 Degrees
32	Blade2A	0	
33	Blade2Rot	128	0–127 -25 Degrees 128–254 0 Degrees 255–255 25 Degrees
34	Blade3A	0	
35	Blade3Rot	128	0–127 -25 Degrees 128–254 0 Degrees 255–255 25 Degrees
36	Blade4A	0	
37	Blade4Rot	128	0–127 -25 Degrees 128–254 0 Degrees 255–255 25 Degrees
38	Shaper Rot	0	0–127 Left 128–254 Centre 255–255 Right

41 CH (continued)

Ch	Function	Default	DMX values
39	Shaper Macros	0	0–3 No Function 4–11 Macro 1 12–18 Macro 2 19–25 Macro 3 26–32 Macro 4 33–39 Macro 5 40–47 Macro 6 48–54 Macro 7 55–61 Macro 8 62–68 Macro 9 69–75 Macro 10 76–82 Macro 11 83–90 Macro 12 91–97 Macro 13 98–104 Macro 14 105–111 Macro 15 112–118 Macro 16 119–125 Macro 17 126–133 Macro 18 134–140 Macro 19 141–147 Macro 20 148–155 Macro 21 156–161 Macro 22 162–168 Macro 23 169–176 Macro 24 177–183 Macro 25 184–190 Macro 26 191–197 Macro 27 198–204 Macro 28 205–211 Macro 29 212–219 Macro 30 220–226 Macro 31 227–233 Macro 32 234–240 Macro 33 241–247 Macro 34 248–255 Macro 35
40	Shaper Macros Speed	0	0–254 Slow 255–255 Fast
41	Control1	0	0–25 No Function 26–76 Head Reset 77–127 P/T Reset 128–255 Reset All