EK Lights

MC6



Manufacturer	**EK Lights**
Type	**Profile spot**
DMX modes	**3**
DMX footprint	**41, 43, 49 channels**
Beam angle	**4.4-52°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**252 × 437 × 225 mm**
GDTF fixture type	**2295C892-42CF-4D61-B90A-C0…**

Controls

Focus · Frost · Iris · Prism · Prism rotation · Zoom · CMY colour mixing · Extra LED colours · RGB colour mixing · Colour temperature · Strobe · Dimmer · Pan and tilt · Animation wheel · Gobos · Gobo rotation

Safety-relevant functions

Fixture reset · Service functions

DMX modes

41CH XY	41 ch
43CH CMY	43 ch
RGBCAM 49CH	49 ch

41CH XY

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	Shutter / Strobe	255	0–10 Closed 11–11 Strobe · Slow 1 Hz 12–81 Strobe · Slow>Fast 1.41–29.6 Hz 82–82 Strobe · Fast 30 Hz 83–93 Open 94–94 StrobePulse · Slow 1 Hz 95–162 StrobePulse · Slow>Fast 1.42–29.6 Hz 163–163 StrobePulse · Fast 30 Hz 164–174 Open 175–175 StrobeRandom · Slow 1 Hz 176–243 StrobeRandom · Slow>Fast 1.42–29.6 Hz 244–244 StrobeRandom · Fast 30 Hz 245–255 Open
6	Dimmer	0	
7	Dimmer Fine	0	Fine byte of Dimmer
8	C TC	255	
9	Tint	128	0–127 Red Shift 128–128 No Effect 129–255 Green Shift
10	Cross Fade	255	0–254 Closed 255–255 Open
11	C IEX	76	
12	C IEX Fine	204	Fine byte of C IEX
13	C IEY	76	
14	C IEY Fine	204	Fine byte of C IEY
15	Gobo	0	0–8 Open (wheel slot 1) 9–17 Gobo 1 (wheel slot 2) 18–26 Gobo 2 (wheel slot 3) 27–35 Gobo 3 (wheel slot 4) 36–44 Gobo 4 (wheel slot 5) 45–53 Gobo 5 (wheel slot 6) 54–62 Gobo 6 (wheel slot 7) 63–71 Gobo7 (wheel slot 8) 72–113 Fast to Slow(Revers Spin) 114–117 Stop (Stop Rotation) 118–159 Slow to Fast(Forward Spin) 160–174 Gobo1 Shak (wheel slot 2) 175–187 Gobo2 Shak (wheel slot 3) 188–201 Gobo3 Shak (wheel slot 4) 202–214 Gobo4 Shak (wheel slot 5) 215–228 Gobo5 Shak (wheel slot 6) 229–241 Gobo6 Shak (wheel slot 7) 242–255 Gobo7 Shak (wheel slot 8)
16	Gobo Rotation	0	0–127 Indexing 128–190 F > S - Rotate CW 191–192 Stop 193–255 S > F - Rotate CCW

41CH XY (continued)

Ch	Function	Default	DMX values
17	Gobo 2	0	0–8 Open (wheel slot 1) 9–17 Gobo 1 (wheel slot 2) 18–26 Gobo 2 (wheel slot 3) 27–35 Gobo 3 (wheel slot 4) 36–44 Gobo 4 (wheel slot 5) 45–53 Gobo 5 (wheel slot 6) 54–62 Gobo 6 (wheel slot 7) 63–71 Gobo 7 (wheel slot 8) 72–113 Fast to Slow(Revers Spin) 114–117 Stop (Stop Rotation) 118–159 Slow to Fast(Forward Spin) 160–174 Gobo1 Shak (wheel slot 2) 175–187 Gobo2 Shak (wheel slot 3) 188–201 Gobo3 Shak (wheel slot 4) 202–214 Gobo4 Shak (wheel slot 5) 215–228 Gobo5 Shak (wheel slot 6) 229–241 Gobo6 Shak (wheel slot 7) 242–255 Gobo7 Shak (wheel slot 8)
18	Prism	0	0–127 Open (wheel slot 1) 128–255 Prism (wheel slot 2)
19	Prism Rotation	0	0–127 indexing 128–190 F > S - Rotate CW 191–192 Stop 193–255 S > F - Rotate CCW
20	Prism	0	0–127 Open (wheel slot 1) 128–255 Prism (wheel slot 2)
21	Prism Rotation	0	0–127 indexing 128–190 F > S - Rotate CW 191–192 Stop 193–255 S > F - Rotate CCW
22	Frost1	0	0–0 Min 1–254 Min>Max 255–255 Max
23	Frost2	0	0–0 Min 1–254 Min>Max 255–255 Max
24	Animation Wheel1	0	
25	Animation Wheel1Pos Rotate	0	0–3 Open 4–127 F > S - Rotate CW 128–132 Stop 133–255 S > F - Rotate CCW
26	Iris	0	0–126 Max 127–127 Min 128–131 Maximum Aperture 132–171 Slow to Fast Pulsation 172–211 Fast Opening 212–251 Fast Closing 252–255 Maximum Aperture
27	Focus	61	
28	Focus Fine	61	Fine byte of Focus
29	Zoom	22	0–254 Narrow 255–255 Wide
30	Zoom Fine	150	Fine byte of Zoom

41CH XY (continued)

Ch	Function	Default	DMX values
31	Auto Focus	0	0–10 Auto Focus OFF 11–20 4 metres 21–30 6 metres 31–40 8 metres 41–50 10 metres 51–60 12 metres 61–70 14 metres 71–80 16 metres 81–90 18 metres 91–100 4 metres 101–110 6 metres 111–120 8 metres 121–130 10 metres 131–140 12 metres 141–150 14 metres 151–160 16 metres 161–170 18 metres 171–180 4 metres 181–190 6 metres 191–200 8 metres 201–210 10 metres 211–220 12 metres 221–230 14 metres 231–240 16 metres 241–250 18 metres 251–255 Auto Focus OFF
32	Blade1A	0	0–126 Min 127–254 50% 255–255 Max
33	Blade1Rot	128	
34	Blade2A	0	0–126 Min 127–254 50% 255–255 Max
35	Blade2Rot	128	
36	Blade3A	0	0–126 Min 127–254 50% 255–255 Max
37	Blade3Rot	128	
38	Blade4A	0	0–126 Min 127–254 50% 255–255 Max
39	Blade4Rot	128	
40	Shaper Rot	128	

41CH XY (continued)

Ch	Function	Default	DMX values
41	Control1	0	0–5 No Function 6–10 Dimmer Mode Off 11–15 Dimmer Mode 1 16–20 Dimmer Mode 2 21–25 Dimmer Mode 3 26–30 Linear 31–35 Square 36–40 Inverse Square 41–45 S Curve 46–50 Reserve 51–55 1200 Hz 56–70 Reserve 71–75 25000Hz 76–80 Pan Inverse Off 81–85 Pan Inverse On 86–90 Tilt Inverse Off 91–95 Tilt Inverse On 96–100 Swap Pan Tilt Off 101–105 Swap Pan Tilt On 106–110 Fan Auto 111–115 Fan On 116–120 Fan Off 121–125 Fan Silent 126–130 Color Calibration Off 131–135 Factory Calibration 136–150 Reserve 151–155 Red Shift Off 156–160 Red Shift On 161–165 Framing Shutter Independent Mode 166–170 Framing Shutter Mixed Mode 171–175 Independent Mode 176–180 Mixed Mode 181–240 Reserve 241–245 Head Reset 246–250 Pan/Tilt Reset 251–255 Complete Reset

43CH CMY

43 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	Shutter / Strobe	255	0–10 Closed 11–11 Strobe · Slow 1 Hz 12–81 Strobe · Slow>Fast 1.41–29.6 Hz 82–82 Strobe · Fast 30 Hz 83–93 Open 94–94 StrobePulse · Slow 1 Hz 95–162 StrobePulse · Slow>Fast 1.42–29.6 Hz 163–163 StrobePulse · Fast 30 Hz 164–174 Open 175–175 StrobeRandom · Slow 1 Hz 176–243 StrobeRandom · Slow>Fast 1.42–29.6 Hz 244–244 StrobeRandom · Fast 30 Hz 245–255 Open
6	Dimmer	0	
7	Dimmer Fine	0	Fine byte of Dimmer

43CH CMY (continued)

Ch	Function	Default	DMX values
8	C TC	255	
9	Tint	128	0–127 Red Shift 128–128 No Effect 129–255 Green Shift
10	Cross Fade	255	0–254 Closed 255–255 Open
11	Cyan	0	
12	Cyan Fine	0	Fine byte of Cyan
13	Magenta	0	
14	Magenta Fine	0	Fine byte of Magenta
15	Yellow	0	
16	Yellow Fine	0	Fine byte of Yellow
17	Gobo	0	0–8 Open (wheel slot 1) 9–17 Gobo 1 (wheel slot 2) 18–26 Gobo 2 (wheel slot 3) 27–35 Gobo 3 (wheel slot 4) 36–44 Gobo 4 (wheel slot 5) 45–53 Gobo 5 (wheel slot 6) 54–62 Gobo 6 (wheel slot 7) 63–71 Gobo7 (wheel slot 8) 72–113 Fast to Slow(Revers Spin) 114–117 Stop (Stop Rotation) 118–159 Slow to Fast(Forward Spin) 160–174 Gobo1 Shak (wheel slot 2) 175–187 Gobo2 Shak (wheel slot 3) 188–201 Gobo3 Shak (wheel slot 4) 202–214 Gobo4 Shak (wheel slot 5) 215–228 Gobo5 Shak (wheel slot 6) 229–241 Gobo6 Shak (wheel slot 7) 242–255 Gobo7 Shak (wheel slot 8)
18	Gobo Rotation	0	0–127 Indexing 128–190 F > S - Rotate CW 191–192 Stop 193–255 S > F - Rotate CCW
19	Gobo 2	0	0–8 Open (wheel slot 1) 9–17 Gobo 1 (wheel slot 2) 18–26 Gobo 2 (wheel slot 3) 27–35 Gobo 3 (wheel slot 4) 36–44 Gobo 4 (wheel slot 5) 45–53 Gobo 5 (wheel slot 6) 54–62 Gobo 6 (wheel slot 7) 63–71 Gobo 7 (wheel slot 8) 72–113 Fast to Slow(Revers Spin) 114–117 Stop (Stop Rotation) 118–159 Slow to Fast(Forward Spin) 160–174 Gobo1 Shak (wheel slot 2) 175–187 Gobo2 Shak (wheel slot 3) 188–201 Gobo3 Shak (wheel slot 4) 202–214 Gobo4 Shak (wheel slot 5) 215–228 Gobo5 Shak (wheel slot 6) 229–241 Gobo6 Shak (wheel slot 7) 242–255 Gobo7 Shak (wheel slot 8)
20	Prism	0	0–127 Open (wheel slot 1) 128–255 Prism (wheel slot 2)
21	Prism Rotation	0	0–127 indexing 128–190 F > S - Rotate CW 191–192 Stop 193–255 S > F - Rotate CCW

43CH CMY (continued)

Ch	Function	Default	DMX values
22	Prism	0	0–127 Open (wheel slot 1) 128–255 Prism (wheel slot 2)
23	Prism Rotation	0	0–127 indexing 128–190 F > S - Rotate CW 191–192 Stop 193–255 S > F - Rotate CCW
24	Frost1	0	0–0 Min 1–254 Min>Max 255–255 Max
25	Frost2	0	0–0 Min 1–254 Min>Max 255–255 Max
26	Animation Wheel1	0	
27	Animation Wheel1Pos Rotate	0	0–3 Open 4–127 F > S - Rotate CW 128–132 Stop 133–255 S > F - Rotate CCW
28	Iris	0	0–126 Max 127–127 Min 128–131 Maximum Aperture 132–171 Slow to Fast Pulsation 172–211 Fast Opening 212–251 Fast Closing 252–255 Maximum Aperture
29	Focus	61	
30	Focus Fine	61	Fine byte of Focus
31	Zoom	22	0–254 Narrow 255–255 Wide
32	Zoom Fine	150	Fine byte of Zoom
33	Auto Focus	0	0–10 Auto Focus OFF 11–20 4 metres 21–30 6 metres 31–40 8 metres 41–50 10 metres 51–60 12 metres 61–70 14 metres 71–80 16 metres 81–90 18 metres 91–100 4 metres 101–110 6 metres 111–120 8 metres 121–130 10 metres 131–140 12 metres 141–150 14 metres 151–160 16 metres 161–170 18 metres 171–180 4 metres 181–190 6 metres 191–200 8 metres 201–210 10 metres 211–220 12 metres 221–230 14 metres 231–240 16 metres 241–250 18 metres 251–255 Auto Focus OFF
34	Blade1A	0	0–126 Min 127–254 50% 255–255 Max

43CH CMY (continued)

Ch	Function	Default	DMX values
35	Blade1Rot	128	
36	Blade2A	0	0–126 Min 127–254 50% 255–255 Max
37	Blade2Rot	128	
38	Blade3A	0	0–126 Min 127–254 50% 255–255 Max
39	Blade3Rot	128	
40	Blade4A	0	0–126 Min 127–254 50% 255–255 Max
41	Blade4Rot	128	
42	Shaper Rot	128	
43	Control1	0	0–5 No Function 6–10 Dimmer Mode Off 11–15 Dimmer Mode 1 16–20 Dimmer Mode 2 21–25 Dimmer Mode 3 26–30 Linear 31–35 Square 36–40 Inverse Square 41–45 S Curve 46–50 Reserve 51–55 1200 Hz 56–70 Reserve 71–75 25000Hz 76–80 Pan Inverse Off 81–85 Pan Inverse On 86–90 Tilt Inverse Off 91–95 Tilt Inverse On 96–100 Swap Pan Tilt Off 101–105 Swap Pan Tilt On 106–110 Fan Auto 111–115 Fan On 116–120 Fan Off 121–125 Fan Silent 126–130 Color Calibration Off 131–135 Factory Calibration 136–150 Reserve 151–155 Red Shift Off 156–160 Red Shift On 161–165 Framing Shutter Independent Mode 166–170 Framing Shutter Mixed Mode 171–175 Independent Mode 176–180 Mixed Mode 181–240 Reserve 241–245 Head Reset 246–250 Pan/Tilt Reset 251–255 Complete Reset

RGBCAM 49CH

49 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	

RGBCAM 49CH (continued)

Ch	Function	Default	DMX values
4	Tilt Fine	0	Fine byte of Tilt
5	Shutter / Strobe	255	0–10 Closed 11–11 Strobe · Slow 1 Hz 12–81 Strobe · Slow>Fast 1.41–29.6 Hz 82–82 Strobe · Fast 30 Hz 83–93 Open 94–94 StrobePulse · Slow 1 Hz 95–162 StrobePulse · Slow>Fast 1.42–29.6 Hz 163–163 StrobePulse · Fast 30 Hz 164–174 Open 175–175 StrobeRandom · Slow 1 Hz 176–243 StrobeRandom · Slow>Fast 1.42–29.6 Hz 244–244 StrobeRandom · Fast 30 Hz 245–255 Open
6	Dimmer	0	
7	Dimmer Fine	0	Fine byte of Dimmer
8	C TC	255	
9	Tint	128	0–127 Red Shift 128–128 No Effect 129–255 Green Shift
10	Cross Fade	255	0–254 Closed 255–255 Open
11	Red	255	
12	Red Fine	255	Fine byte of Red
13	Green	255	
14	Green Fine	255	Fine byte of Green
15	Blue	255	
16	Blue Fine	255	Fine byte of Blue
17	Color Add C	255	
18	Color Add C Fine	255	Fine byte of Color Add C
19	Color Add RY	255	
20	Color Add RY Fine	255	Fine byte of Color Add RY
21	Color Add GY	255	
22	Color Add GY Fine	255	Fine byte of Color Add GY
23	Gobo	0	0–8 Open (wheel slot 1) 9–17 Gobo 1 (wheel slot 2) 18–26 Gobo 2 (wheel slot 3) 27–35 Gobo 3 (wheel slot 4) 36–44 Gobo 4 (wheel slot 5) 45–53 Gobo 5 (wheel slot 6) 54–62 Gobo 6 (wheel slot 7) 63–71 Gobo7 (wheel slot 8) 72–113 Fast to Slow(Revers Spin) 114–117 Stop (Stop Rotation) 118–159 Slow to Fast(Forward Spin) 160–174 Gobo1 Shak (wheel slot 2) 175–187 Gobo2 Shak (wheel slot 3) 188–201 Gobo3 Shak (wheel slot 4) 202–214 Gobo4 Shak (wheel slot 5) 215–228 Gobo5 Shak (wheel slot 6) 229–241 Gobo6 Shak (wheel slot 7) 242–255 Gobo7 Shak (wheel slot 8)

RGBCAM 49CH (continued)

Ch	Function	Default	DMX values
24	Gobo Rotation	0	0–127 Indexing 128–190 F > S - Rotate CW 191–192 Stop 193–255 S > F - Rotate CCW
25	Gobo 2	0	0–8 Open (wheel slot 1) 9–17 Gobo 1 (wheel slot 2) 18–26 Gobo 2 (wheel slot 3) 27–35 Gobo 3 (wheel slot 4) 36–44 Gobo 4 (wheel slot 5) 45–53 Gobo 5 (wheel slot 6) 54–62 Gobo 6 (wheel slot 7) 63–71 Gobo 7 (wheel slot 8) 72–113 Fast to Slow(Revers Spin) 114–117 Stop (Stop Rotation) 118–159 Slow to Fast(Forward Spin) 160–174 Gobo1 Shak (wheel slot 2) 175–187 Gobo2 Shak (wheel slot 3) 188–201 Gobo3 Shak (wheel slot 4) 202–214 Gobo4 Shak (wheel slot 5) 215–228 Gobo5 Shak (wheel slot 6) 229–241 Gobo6 Shak (wheel slot 7) 242–255 Gobo7 Shak (wheel slot 8)
26	Prism	0	0–127 Open (wheel slot 1) 128–255 Prism (wheel slot 2)
27	Prism Rotation	0	0–127 indexing 128–190 F > S - Rotate CW 191–192 Stop 193–255 S > F - Rotate CCW
28	Prism	0	0–127 Open (wheel slot 1) 128–255 Prism (wheel slot 2)
29	Prism Rotation	0	0–127 indexing 128–190 F > S - Rotate CW 191–192 Stop 193–255 S > F - Rotate CCW
30	Frost1	0	0–0 Min 1–254 Min>Max 255–255 Max
31	Frost2	0	0–0 Min 1–254 Min>Max 255–255 Max
32	Animation Wheel1	0	
33	Animation Wheel1Pos Rotate	0	0–3 Open 4–127 F > S - Rotate CW 128–132 Stop 133–255 S > F - Rotate CCW
34	Iris	0	0–126 Max 127–127 Min 128–131 Maximum Aperture 132–171 Slow to Fast Pulsation 172–211 Fast Opening 212–251 Fast Closing 252–255 Maximum Aperture
35	Focus	61	
36	Focus Fine	61	Fine byte of Focus
37	Zoom	22	0–254 Narrow 255–255 Wide
38	Zoom Fine	150	Fine byte of Zoom

RGBCAM 49CH (continued)

Ch	Function	Default	DMX values
39	Auto Focus	0	0–10 Auto Focus OFF 11–20 4 metres 21–30 6 metres 31–40 8 metres 41–50 10 metres 51–60 12 metres 61–70 14 metres 71–80 16 metres 81–90 18 metres 91–100 4 metres 101–110 6 metres 111–120 8 metres 121–130 10 metres 131–140 12 metres 141–150 14 metres 151–160 16 metres 161–170 18 metres 171–180 4 metres 181–190 6 metres 191–200 8 metres 201–210 10 metres 211–220 12 metres 221–230 14 metres 231–240 16 metres 241–250 18 metres 251–255 Auto Focus OFF
40	Blade1A	0	0–126 Min 127–254 50% 255–255 Max
41	Blade1Rot	128	
42	Blade2A	0	0–126 Min 127–254 50% 255–255 Max
43	Blade2Rot	128	
44	Blade3A	0	0–126 Min 127–254 50% 255–255 Max
45	Blade3Rot	128	
46	Blade4A	0	0–126 Min 127–254 50% 255–255 Max
47	Blade4Rot	128	
48	Shaper Rot	128	

RGBCAM 49CH (continued)

Ch	Function	Default	DMX values
49	Control1	0	0–5 No Function 6–10 Dimmer Mode Off 11–15 Dimmer Mode 1 16–20 Dimmer Mode 2 21–25 Dimmer Mode 3 26–30 Linear 31–35 Square 36–40 Inverse Square 41–45 S Curve 46–50 Reserve 51–55 1200 Hz 56–70 Reserve 71–75 25000Hz 76–80 Pan Inverse Off 81–85 Pan Inverse On 86–90 Tilt Inverse Off 91–95 Tilt Inverse On 96–100 Swap Pan Tilt Off 101–105 Swap Pan Tilt On 106–110 Fan Auto 111–115 Fan On 116–120 Fan Off 121–125 Fan Silent 126–130 Color Calibration Off 131–135 Factory Calibration 136–150 Reserve 151–155 Red Shift Off 156–160 Red Shift On 161–165 Framing Shutter Independent Mode 166–170 Framing Shutter Mixed Mode 171–175 Independent Mode 176–180 Mixed Mode 181–240 Reserve 241–245 Head Reset 246–250 Pan/Tilt Reset 251–255 Complete Reset