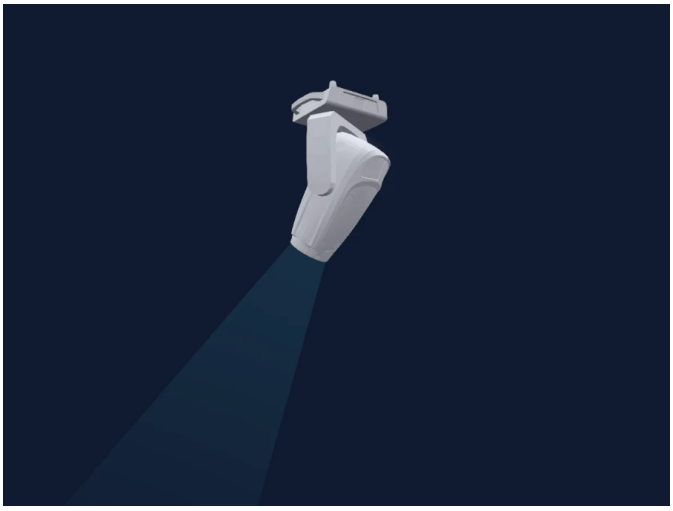
CKC Lighting

V9



Manufacturer	**CKC Lighting**
Type	**Profile spot**
DMX modes	**3**
DMX footprint	**37, 39, 57 channels**
Beam angle	**6-52°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**306 × 580 × 293 mm**
GDTF fixture type	**3D5A805D-24BC-47B2-A5EC-E5…**

Controls

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

Safety-relevant functions

Fixture reset · Service functions · Strobe

DMX modes

CMY 37CH	37 ch
Standard 39CH	39 ch
Extended 57CH	57 ch

CMY 37CH

37 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	Dimmer	0	0–254 Closed 255–255 Open
6	Dimmer Fine	0	Fine byte of Dimmer
7	Shutter / Strobe	50	0–31 shutter closed 32–63 shutter open1 64–94 Min Strobe 95–95 Max Strobe 96–127 shutter open2 128–158 Min Pulse 159–159 Max Pulse 160–191 shutter open3 192–222 Min Random 223–223 Max Random 224–255 shutter open4
8	Cyan	0	
9	Magenta	0	
10	Yellow	0	
11	Color Macro1	0	
12	C TO	0	0–17 Open 18–23 1800K 24–31 2400K 32–44 3200K 45–55 4500K 56–64 5600K 65–74 6500K 75–84 7500K 85–99 8500K 100–100 10000K 101–120 3200K 121–140 4500K 141–160 5600K 161–180 6500K 181–200 7500K 201–220 8000K 255–255 5600K
13	Tint	128	0–0 No function 1–127 Full Minus Green to Neutral 128–128 Neutral White 129–255 Neutral to Full Plus Green
14	Color1Wheel Index	0	0–254 Open (wheel slot 1) 255–255 Yellow (wheel slot 2)

CMY 37CH (continued)

Ch	Function	Default	DMX values
15	Gobo	0	0–5 Open (wheel slot 7) 6–20 Gobo1 (wheel slot 1) 21–35 Gobo2 (wheel slot 2) 36–50 Gobo3 (wheel slot 3) 51–65 Gobo4 (wheel slot 4) 66–80 Gobo5 (wheel slot 5) 81–95 Gobo6 (wheel slot 6) 96–110 Gobo 1 shake (wheel slot 1) 111–125 Gobo 2 shake (wheel slot 2) 126–140 Gobo 3 shake (wheel slot 3) 141–155 Gobo 4 shake (wheel slot 4) 156–170 Gobo 5 shake (wheel slot 5) 171–185 Gobo 6 shake (wheel slot 6) 186–192 Open (wheel slot 7) 193–223 Slow -> Fast CW 224–224 Stop 225–255 Fast -> Slow CCW
16	Gobo Rotation	0	0–127 Indexing 128–190 Slow -> Fast CW 191–192 Stop 193–255 Fast -> Slow CCW
17	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
18	Gobo 2	0	0–5 Open (wheel slot 8) 6–18 FixedGobo1 (wheel slot 1) 19–31 FixedGobo2 (wheel slot 2) 32–44 FixedGobo3 (wheel slot 3) 45–57 FixedGobo4 (wheel slot 4) 58–70 FixedGobo5 (wheel slot 5) 71–83 FixedGobo6 (wheel slot 6) 84–96 FixedGobo7 (wheel slot 7) 97–109 FixedGobo 1 shake (wheel slot 1) 110–122 FixedGobo 2 shake (wheel slot 2) 123–135 FixedGobo 3 shake (wheel slot 3) 136–148 FixedGobo 4 shake (wheel slot 4) 149–161 FixedGobo 5 shake (wheel slot 5) 162–174 FixedGobo 6 shake (wheel slot 6) 175–187 FixedGobo 7 shake (wheel slot 7) 188–192 Open (wheel slot 8) 193–223 Slow -> Fast CW 224–224 Stop 225–255 Fast -> Slow CCW
19	Zoom	128	
20	Focus	0	
21	Iris	0	0–191 0 -100%(Linear) 192–236 Pulse opening slow to fast 237–245 Pulse closing slow to fast 246–255 Iris rotation slow to fast
22	Prism	0	0–5 Open (wheel slot 1) 6–130 Prism1 (wheel slot 2) 131–255 Prism2 (wheel slot 3)
23	Prism Rotation	0	0–5 Open 6–128 Index 129–191 Slow -> Fast CW 192–192 Stop 193–255 Fast -> Slow CCW
24	Frost1	0	
25	Frost2	0	

CMY 37CH (continued)

Ch	Function	Default	DMX values
26	Animation Wheel1	0	0–5 open (wheel slot 1) 6–128 0-540 (wheel slot 2) 129–191 Slow to Fast CW (wheel slot 2) 192–192 Stop (wheel slot 2) 193–255 Fast to Slow CCW (wheel slot 2)
27	Shaper Rot	128	0–127 0 128–254 60 255–255 120
28	Blade1A	0	
29	Blade1B	0	
30	Blade2A	0	
31	Blade2B	0	
32	Blade3A	0	
33	Blade3B	0	
34	Blade4A	0	
35	Blade4B	0	
36	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectural 81–100 Theater 101–255 Default to Unit Setting
37	Control1	0	0–5 No function 6–10 Display OFF(Hold 3s) 11–15 Display ON(Hold 3s) 16–20 Invert Pan on (Hold 3s) 21–25 Invert Pan off (Hold 5s) 26–30 Invert Tilt on (Hold 3s) 31–35 Invert Tilt off (Hold 5s) 36–39 Fan Auto (Default) 40–42 Fan Silent (Hold 3s) 43–45 Fan High(Hold 3s) 46–50 Linear Dimmer Curve (hold 3s) 51–55 Square Dimmer Curve (hold 3s) 56–60 Inv-Square Dimmer Curve (hold 3s) 61–65 S - Dimmer Curve (hold 3s) 66–70 1200Hz(hold 3s) 71–75 3600 Hz (hold 3s) 76–80 5000 Hz (hold 3s) 81–85 10000 Hz (hold 3s) 86–90 15000 Hz (hold 3s) 91–95 20000 Hz (hold 3s) 96–100 25000 Hz (hold 3s) 101–105 All motor reset(hold 3s) 106–110 P/T motor reset(hold 3s) 111–115 Other motor reset(hold 3s) 116–120 Power Mode Normal 121–125 Power Mode Theatre 126–130 DTW ON 131–135 DTW OFF 136–140 CTO Mode1 (Default) 141–145 CTO Mode2 146–255 No function

Standard 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	Dimmer	0	0–254 Closed 255–255 Open
6	Dimmer Fine	0	Fine byte of Dimmer
7	Shutter / Strobe	50	0–31 shutter closed 32–63 shutter open1 64–94 Min Strobe 95–95 Max Strobe 96–127 shutter open2 128–158 Min Pulse 159–159 Max Pulse 160–191 shutter open3 192–222 Min Random 223–223 Max Random 224–255 shutter open4
8	Red	255	
9	Green	255	
10	Blue	255	
11	Color Add RY	255	
12	Color Add GY	255	
13	Color Macro1	0	
14	C TO	0	0–17 Open 18–23 1800K 24–31 2400K 32–44 3200K 45–55 4500K 56–64 5600K 65–74 6500K 75–84 7500K 85–99 8500K 100–100 10000K 101–120 3200K 121–140 4500K 141–160 5600K 161–180 6500K 181–200 7500K 201–220 8000K 255–255 5600K
15	Tint	128	0–0 No function 1–127 Full Minus Green to Neutral 128–128 Neutral White 129–255 Neutral to Full Plus Green
16	Color1Wheel Index	0	0–254 Open (wheel slot 1) 255–255 Yellow (wheel slot 2)

Standard 39CH (continued)

Ch	Function	Default	DMX values
17	Gobo	0	0–5 Open (wheel slot 7) 6–20 Gobo1 (wheel slot 1) 21–35 Gobo2 (wheel slot 2) 36–50 Gobo3 (wheel slot 3) 51–65 Gobo4 (wheel slot 4) 66–80 Gobo5 (wheel slot 5) 81–95 Gobo6 (wheel slot 6) 96–110 Gobo 1 shake (wheel slot 1) 111–125 Gobo 2 shake (wheel slot 2) 126–140 Gobo 3 shake (wheel slot 3) 141–155 Gobo 4 shake (wheel slot 4) 156–170 Gobo 5 shake (wheel slot 5) 171–185 Gobo 6 shake (wheel slot 6) 186–192 Open (wheel slot 7) 193–223 Slow -> Fast CW 224–224 Stop 225–255 Fast -> Slow CCW
18	Gobo Rotation	0	0–127 Indexing 128–190 Slow -> Fast CW 191–192 Stop 193–255 Fast -> Slow CCW
19	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
20	Gobo 2	0	0–5 Open (wheel slot 8) 6–18 FixedGobo1 (wheel slot 1) 19–31 FixedGobo2 (wheel slot 2) 32–44 FixedGobo3 (wheel slot 3) 45–57 FixedGobo4 (wheel slot 4) 58–70 FixedGobo5 (wheel slot 5) 71–83 FixedGobo6 (wheel slot 6) 84–96 FixedGobo7 (wheel slot 7) 97–109 FixedGobo 1 shake (wheel slot 1) 110–122 FixedGobo 2 shake (wheel slot 2) 123–135 FixedGobo 3 shake (wheel slot 3) 136–148 FixedGobo 4 shake (wheel slot 4) 149–161 FixedGobo 5 shake (wheel slot 5) 162–174 FixedGobo 6 shake (wheel slot 6) 175–187 FixedGobo 7 shake (wheel slot 7) 188–192 Open (wheel slot 8) 193–223 Slow -> Fast CW 224–224 Stop 225–255 Fast -> Slow CCW
21	Zoom	128	
22	Focus	0	
23	Iris	0	0–191 0 -100%(Linear) 192–236 Pulse opening slow to fast 237–245 Pulse closing slow to fast 246–255 Iris rotation slow to fast
24	Prism	0	0–5 Open (wheel slot 1) 6–130 Prism1 (wheel slot 2) 131–255 Prism2 (wheel slot 3)
25	Prism Rotation	0	0–5 Open 6–128 Index 129–191 Slow -> Fast CW 192–192 Stop 193–255 Fast -> Slow CCW
26	Frost1	0	
27	Frost2	0	

Standard 39CH (continued)

Ch	Function	Default	DMX values
28	Animation Wheel1	0	0–5 open (wheel slot 1) 6–128 0-540 (wheel slot 2) 129–191 Slow to Fast CW (wheel slot 2) 192–192 Stop (wheel slot 2) 193–255 Fast to Slow CCW (wheel slot 2)
29	Shaper Rot	128	0–127 0 128–254 60 255–255 120
30	Blade1A	0	
31	Blade1B	0	
32	Blade2A	0	
33	Blade2B	0	
34	Blade3A	0	
35	Blade3B	0	
36	Blade4A	0	
37	Blade4B	0	
38	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectural 81–100 Theater 101–255 Default to Unit Setting
39	Control1	0	0–5 No function 6–10 Display OFF(Hold 3s) 11–15 Display ON(Hold 3s) 16–20 Invert Pan on (Hold 3s) 21–25 Invert Pan off (Hold 5s) 26–30 Invert Tilt on (Hold 3s) 31–35 Invert Tilt off (Hold 5s) 36–39 Fan Auto (Default) 40–42 Fan Silent (Hold 3s) 43–45 Fan High(Hold 3s) 46–50 Linear Dimmer Curve (hold 3s) 51–55 Square Dimmer Curve (hold 3s) 56–60 Inv-Square Dimmer Curve (hold 3s) 61–65 S - Dimmer Curve (hold 3s) 66–70 1200Hz(hold 3s) 71–75 3600 Hz (hold 3s) 76–80 5000 Hz (hold 3s) 81–85 10000 Hz (hold 3s) 86–90 15000 Hz (hold 3s) 91–95 20000 Hz (hold 3s) 96–100 25000 Hz (hold 3s) 101–105 All motor reset(hold 3s) 106–110 P/T motor reset(hold 3s) 111–115 Other motor reset(hold 3s) 116–120 Power Mode Normal 121–125 Power Mode Theatre 126–130 DTW ON 131–135 DTW OFF 136–140 CTO Mode1 (Default) 141–145 CTO Mode2 146–255 No function

Extended 57CH

57 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	Dimmer	0	0–254 Closed 255–255 Open
6	Dimmer Fine	0	Fine byte of Dimmer
7	Shutter / Strobe	50	0–31 shutter closed 32–63 shutter open1 64–94 Min Strobe 95–95 Max Strobe 96–127 shutter open2 128–158 Min Pulse 159–159 Max Pulse 160–191 shutter open3 192–222 Min Random 223–223 Max Random 224–255 shutter open4
8	Red	255	
9	Red Fine	255	Fine byte of Red
10	Green	255	
11	Green Fine	255	Fine byte of Green
12	Blue	255	
13	Blue Fine	255	Fine byte of Blue
14	Color Add RY	255	
15	Color Add RY Fine	255	Fine byte of Color Add RY
16	Color Add GY	255	
17	Color Add GY Fine	255	Fine byte of Color Add GY
18	Color Macro1	0	
19	C TO	0	0–17 Open 18–23 1800K 24–31 2400K 32–44 3200K 45–55 4500K 56–64 5600K 65–74 6500K 75–84 7500K 85–99 8500K 100–100 10000K 101–120 3200K 121–140 4500K 141–160 5600K 161–180 6500K 181–200 7500K 201–220 8000K 255–255 5600K
20	Tint	128	0–0 No function 1–127 Full Minus Green to Neutral 128–128 Neutral White 129–255 Neutral to Full Plus Green
21	Color1Wheel Index	0	0–254 Open (wheel slot 1) 255–255 Yellow (wheel slot 2)
22	Color1Wheel Index Fine	0	Fine byte of Color1Wheel Index

Extended 57CH (continued)

Ch	Function	Default	DMX values
23	Gobo	0	0–5 Open (wheel slot 7) 6–20 Gobo1 (wheel slot 1) 21–35 Gobo2 (wheel slot 2) 36–50 Gobo3 (wheel slot 3) 51–65 Gobo4 (wheel slot 4) 66–80 Gobo5 (wheel slot 5) 81–95 Gobo6 (wheel slot 6) 96–110 Gobo 1 shake (wheel slot 1) 111–125 Gobo 2 shake (wheel slot 2) 126–140 Gobo 3 shake (wheel slot 3) 141–155 Gobo 4 shake (wheel slot 4) 156–170 Gobo 5 shake (wheel slot 5) 171–185 Gobo 6 shake (wheel slot 6) 186–192 Open (wheel slot 7) 193–223 Slow -> Fast CW 224–224 Stop 225–255 Fast -> Slow CCW
24	Gobo Rotation	0	0–127 Indexing 128–190 Slow -> Fast CW 191–192 Stop 193–255 Fast -> Slow CCW
25	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
26	Gobo 2	0	0–5 Open (wheel slot 8) 6–18 FixedGobo1 (wheel slot 1) 19–31 FixedGobo2 (wheel slot 2) 32–44 FixedGobo3 (wheel slot 3) 45–57 FixedGobo4 (wheel slot 4) 58–70 FixedGobo5 (wheel slot 5) 71–83 FixedGobo6 (wheel slot 6) 84–96 FixedGobo7 (wheel slot 7) 97–109 FixedGobo 1 shake (wheel slot 1) 110–122 FixedGobo 2 shake (wheel slot 2) 123–135 FixedGobo 3 shake (wheel slot 3) 136–148 FixedGobo 4 shake (wheel slot 4) 149–161 FixedGobo 5 shake (wheel slot 5) 162–174 FixedGobo 6 shake (wheel slot 6) 175–187 FixedGobo 7 shake (wheel slot 7) 188–192 Open (wheel slot 8) 193–223 Slow -> Fast CW 224–224 Stop 225–255 Fast -> Slow CCW
27	Zoom	128	
28	Zoom Fine	128	Fine byte of Zoom
29	Focus	0	
30	Focus Fine	0	Fine byte of Focus
31	Iris	0	0–190 0 -100%(Linear) 191–235 Pulse opening slow to fast 236–244 Pulse closing slow to fast 245–255 Iris rotation slow to fast
32	Iris Fine	0	Fine byte of Iris
33	Prism	0	0–5 Open (wheel slot 1) 6–130 Prism1 (wheel slot 2) 131–255 Prism2 (wheel slot 3)
34	Prism Rotation	0	0–5 Open 6–128 Index 129–191 Slow -> Fast CW 192–192 Stop 193–255 Fast -> Slow CCW

Extended 57CH (continued)

Ch	Function	Default	DMX values
35	Frost1	0	
36	Frost2	0	
37	Animation Wheel1	0	0–5 open (wheel slot 1) 6–128 0-540 (wheel slot 2) 129–191 Slow to Fast CW (wheel slot 2) 192–192 Stop (wheel slot 2) 193–255 Fast to Slow CCW (wheel slot 2)
38	Shaper Rot	128	0–127 0 128–254 60 255–255 120
39	Shaper Rot Fine	0	Fine byte of Shaper Rot
40	Blade1A	0	
41	Blade1A Fine	0	Fine byte of Blade1A
42	Blade1B	0	
43	Blade1B Fine	0	Fine byte of Blade1B
44	Blade2A	0	
45	Blade2A Fine	0	Fine byte of Blade2A
46	Blade2B	0	
47	Blade2B Fine	0	Fine byte of Blade2B
48	Blade3A	0	
49	Blade3A Fine	0	Fine byte of Blade3A
50	Blade3B	0	
51	Blade3B Fine	0	Fine byte of Blade3B
52	Blade4A	0	
53	Blade4A Fine	0	Fine byte of Blade4A
54	Blade4B	0	
55	Blade4B Fine	0	Fine byte of Blade4B
56	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectural 81–100 Theater 101–255 Default to Unit Setting

Extended 57CH (continued)

Ch	Function	Default	DMX values
57	Control1	0	0–5 No function 6–10 Display OFF(Hold 3s) 11–15 Display ON(Hold 3s) 16–20 Invert Pan on (Hold 3s) 21–25 Invert Pan off (Hold 5s) 26–30 Invert Tilt on (Hold 3s) 31–35 Invert Tilt off (Hold 5s) 36–39 Fan Auto (Default) 40–42 Fan Silent (Hold 3s) 43–45 Fan High(Hold 3s) 46–50 Linear Dimmer Curve (hold 3s) 51–55 Square Dimmer Curve (hold 3s) 56–60 Inv-Square Dimmer Curve (hold 3s) 61–65 S - Dimmer Curve (hold 3s) 66–70 1200Hz(hold 3s) 71–75 3600 Hz (hold 3s) 76–80 5000 Hz (hold 3s) 81–85 10000 Hz (hold 3s) 86–90 15000 Hz (hold 3s) 91–95 20000 Hz (hold 3s) 96–100 25000 Hz (hold 3s) 101–105 All motor reset(hold 3s) 106–110 P/T motor reset(hold 3s) 111–115 Other motor reset(hold 3s) 116–120 Power Mode Normal 121–125 Power Mode Theatre 126–130 DTW ON 131–135 DTW OFF 136–140 CTO Mode1 (Default) 141–145 CTO Mode2 146–255 No function