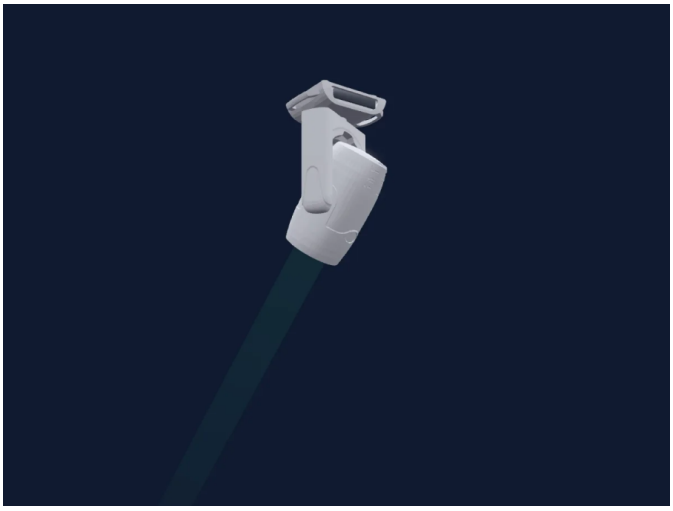
CKC Lighting

MP5X



Manufacturer	**CKC Lighting**
Type	**Moving head**
DMX modes	**2**
DMX footprint	**23, 28 channels**
Beam angle	**2°**
Pan range	**540°**
Tilt range	**250°**
Size (W × H × D)	**252 × 408 × 241 mm**
GDTF fixture type	**0C42E469-BF68-4B18-AA6F-B8…**

Controls

Focus · Frost · Prism · Prism rotation · CMY colour mixing · Colour wheel · Strobe · Dimmer · Movement speed · Gobos

Safety-relevant functions

Fixture reset · Strobe

DMX modes

Standard 23CH	23 ch
Extended 28CH	28 ch

Standard 23CH

23 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	Pan Rotate	0	0–127 no function 128–189 Pan clockwise from fast to slow 190–193 No rotation 194–255 Pan counter-clockwise from slow to fast
6	Tilt Rotate	0	0–127 no function 128–189 Titl clockwise from fast to slow 190–193 No rotation 194–255 Titl counter-clockwise from slow to fast
7	Dimmer	0	0–254 Closed 255–255 Open
8	Dimmer Fine	0	Fine byte of Dimmer
9	Shutter / Strobe	96	0–31 Shutter closed 32–63 Shutter open1 64–94 Strobe Slow 95–95 Strobe Fast 96–127 Shutter open2 128–158 Pulse Strobe Slow 159–159 Pulse Strobe Fast 160–191 Shutter open3 192–222 Random Strobe Slow 223–223 Random Strobe Fast 224–255 Shutter open4
10	Cyan	0	
11	Magenta	0	
12	Yellow	0	
13	Color Wheel	0	0–5 Open (wheel slot 1) 6–14 Red (wheel slot 2) 15–23 Orange (wheel slot 3) 24–32 Yellow (wheel slot 4) 33–41 Green (wheel slot 5) 42–50 CTO (wheel slot 6) 51–59 Purple (wheel slot 7) 60–68 Rose (wheel slot 8) 69–77 Fluorescent Blue (wheel slot 9) 78–86 Orange Red (wheel slot 10) 87–95 Wathet (wheel slot 11) 96–183 Indexing 184–218 Fast to slow CW 219–221 Stop 222–255 Slow to fast CCW
14	Color Wheel Fine	0	Fine byte of Color Wheel

Standard 23CH (continued)

Ch	Function	Default	DMX values
15	Gobo	0	0–5 Open (wheel slot 1) 6–11 gobo 1 1 (wheel slot 2) 12–17 gobo 1 2 (wheel slot 3) 18–23 gobo 1 3 (wheel slot 4) 24–29 gobo 1 4 (wheel slot 5) 30–35 gobo 1 5 (wheel slot 6) 36–41 gobo 1 6 (wheel slot 7) 42–47 gobo 1 7 (wheel slot 8) 48–53 gobo 1 8 (wheel slot 9) 54–59 gobo 1 9 (wheel slot 10) 60–65 gobo 1 10 (wheel slot 11) 66–71 gobo 1 11 (wheel slot 12) 72–77 gobo 1 12 (wheel slot 13) 78–83 gobo 1 13 (wheel slot 14) 84–89 gobo 1 14 (wheel slot 15) 90–95 Open Shake (wheel slot 1) 96–101 FixedGobo 1 shake (wheel slot 2) 102–107 FixedGobo 2 shake (wheel slot 3) 108–113 FixedGobo 3 shake (wheel slot 4) 114–119 FixedGobo 4 shake (wheel slot 5) 120–125 FixedGobo 5 shake (wheel slot 6) 126–131 FixedGobo 6 shake (wheel slot 7) 132–137 FixedGobo 7 shake (wheel slot 8) 138–143 FixedGobo 8 shake (wheel slot 9) 144–149 FixedGobo 9 shake (wheel slot 10) 150–155 FixedGobo 10 shake (wheel slot 11) 156–161 FixedGobo 11 shake (wheel slot 12) 162–167 FixedGobo 12 shake (wheel slot 13) 168–173 FixedGobo 13 shake (wheel slot 14) 174–179 FixedGobo 14 shake (wheel slot 15) 180–192 open (wheel slot 1) 193–223 Clockwise from fast to slow 224–224 Stop 225–255 Counter-clockwise from slow to fast
16	Prism	0	0–5 open (wheel slot 1) 6–255 8 Facet Prism (wheel slot 2)
17	Prism Rotation	0	0–127 Indexing 128–189 Fast to slow CW 190–193 No rotation 194–255 Slow to fast CCW
18	Prism	0	0–5 open (wheel slot 1) 6–255 6 Liner Prism (wheel slot 2)
19	Prism Rotation	0	0–127 Indexing 128–189 Fast to slow CW 190–193 No rotation 194–255 Slow to fast CCW
20	Focus	0	
21	Frost1	0	
22	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectural 81–100 Theatre 101–255 Default to Unit Setting

Standard 23CH (continued)

Ch	Function	Default	DMX values
23	Control1	0	0–5 No function 6–17 Invert Pan on (Hold 3s) 18–29 Invert Pan off (Hold 5s) 30–41 Invert Tilt on (Hold 3s) 42–53 Invert Tilt off (Hold 3s) 54–61 Fan Silent(Hold 3s) 62–69 Fan Auto(Hold 3s) 70–77 Fan High(Hold 3s) 78–89 Dimmer Curve Linear(Hold 3s) 90–101 Dimmer Curve Square(Hold 3s) 102–113 Dimmer Curve I-Square(Hold 3s) 114–125 Dimmer Curve S-Curve(Hold 3s) 126–131 900 Hz(Hold 3s) 132–137 1000 Hz(Hold 3s) 138–143 1100 Hz(Hold 3s) 144–149 1200 Hz(Hold 3s) 150–155 1300 Hz(Hold 3s) 156–161 1400 Hz(Hold 3s) 162–167 1500 Hz(Hold 3s) 168–173 2500 Hz(Hold 3s) 174–179 4000 Hz(Hold 3s) 180–185 5000 Hz(Hold 3s) 186–191 10000 Hz(Hold 3s) 192–197 15000 Hz(Hold 3s) 198–203 20000 Hz(Hold 3s) 204–209 25000 Hz(Hold 3s) 210–221 Reset Pan/Tilt (Hold 3s) 222–233 Reset only Head(Hold 3s) 234–255 Reset All Functions(Hold 3s)

Extended 28CH

28 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	Pan Rotate	0	0–127 no function 128–189 Pan clockwise from fast to slow 190–193 No rotation 194–255 Pan counter-clockwise from slow to fast
6	Tilt Rotate	0	0–127 no function 128–189 Titl clockwise from fast to slow 190–193 No rotation 194–255 Titl counter-clockwise from slow to fast
7	Dimmer	0	0–254 Closed 255–255 Open
8	Dimmer Fine	0	Fine byte of Dimmer

Extended 28CH (continued)

Ch	Function	Default	DMX values
9	Shutter / Strobe	96	0–31 Shutter closed 32–63 Shutter open1 64–94 Strobe Slow 95–95 Strobe Fast 96–127 Shutter open2 128–158 Pulse Strobe Slow 159–159 Pulse Strobe Fast 160–191 Shutter open3 192–222 Random Strobe Slow 223–223 Random Strobe Fast 224–255 Shutter open4
10	Cyan	0	
11	Cyan Fine	0	Fine byte of Cyan
12	Magenta	0	
13	Magenta Fine	0	Fine byte of Magenta
14	Yellow	0	
15	Yellow Fine	0	Fine byte of Yellow
16	Color Wheel	0	0–5 Open (wheel slot 1) 6–14 Red (wheel slot 2) 15–23 Orange (wheel slot 3) 24–32 Yellow (wheel slot 4) 33–41 Green (wheel slot 5) 42–50 CTO (wheel slot 6) 51–59 Purple (wheel slot 7) 60–68 Rose (wheel slot 8) 69–77 Fluorescent Blue (wheel slot 9) 78–86 Orange Red (wheel slot 10) 87–95 Wathet (wheel slot 11) 96–183 Indexing 184–218 Fast to slow CW 219–221 Stop 222–255 Slow to fast CCW
17	Color Wheel Fine	0	Fine byte of Color Wheel

Extended 28CH (continued)

Ch	Function	Default	DMX values
18	Gobo	0	0–5 Open (wheel slot 1) 6–11 gobo 1 1 (wheel slot 2) 12–17 gobo 1 2 (wheel slot 3) 18–23 gobo 1 3 (wheel slot 4) 24–29 gobo 1 4 (wheel slot 5) 30–35 gobo 1 5 (wheel slot 6) 36–41 gobo 1 6 (wheel slot 7) 42–47 gobo 1 7 (wheel slot 8) 48–53 gobo 1 8 (wheel slot 9) 54–59 gobo 1 9 (wheel slot 10) 60–65 gobo 1 10 (wheel slot 11) 66–71 gobo 1 11 (wheel slot 12) 72–77 gobo 1 12 (wheel slot 13) 78–83 gobo 1 13 (wheel slot 14) 84–89 gobo 1 14 (wheel slot 15) 90–95 Open Shake (wheel slot 1) 96–101 FixedGobo 1 shake (wheel slot 2) 102–107 FixedGobo 2 shake (wheel slot 3) 108–113 FixedGobo 3 shake (wheel slot 4) 114–119 FixedGobo 4 shake (wheel slot 5) 120–125 FixedGobo 5 shake (wheel slot 6) 126–131 FixedGobo 6 shake (wheel slot 7) 132–137 FixedGobo 7 shake (wheel slot 8) 138–143 FixedGobo 8 shake (wheel slot 9) 144–149 FixedGobo 9 shake (wheel slot 10) 150–155 FixedGobo 10 shake (wheel slot 11) 156–161 FixedGobo 11 shake (wheel slot 12) 162–167 FixedGobo 12 shake (wheel slot 13) 168–173 FixedGobo 13 shake (wheel slot 14) 174–179 FixedGobo 14 shake (wheel slot 15) 180–192 open (wheel slot 1) 193–223 Clockwise from fast to slow 224–224 Stop 225–255 Counter-clockwise from slow to fast
19	Prism	0	0–5 open (wheel slot 1) 6–255 8 Facet Prism (wheel slot 2)
20	Prism Rotation	0	0–127 Indexing 128–189 Fast to slow CW 190–193 No rotation 194–255 Slow to fast CCW
21	Prism	0	0–5 open (wheel slot 1) 6–255 6 Liner Prism (wheel slot 2)
22	Prism Rotation	0	0–127 Indexing 128–189 Fast to slow CW 190–193 No rotation 194–255 Slow to fast CCW
23	Focus	0	
24	Focus Fine	0	Fine byte of Focus
25	Frost1	0	
26	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectural 81–100 Theatre 101–255 Default to Unit Setting
27	Position MSpeed	0	

Extended 28CH (continued)

Ch	Function	Default	DMX values
28	Control1	0	0–5 No function 6–17 Invert Pan on (Hold 3s) 18–29 Invert Pan off (Hold 5s) 30–41 Invert Tilt on (Hold 3s) 42–53 Invert Tilt off (Hold 3s) 54–61 Fan Silent(Hold 3s) 62–69 Fan Auto(Hold 3s) 70–77 Fan High(Hold 3s) 78–89 Dimmer Curve Linear(Hold 3s) 90–101 Dimmer Curve Square(Hold 3s) 102–113 Dimmer Curve I-Square(Hold 3s) 114–125 Dimmer Curve S-Curve(Hold 3s) 126–131 900 Hz(Hold 3s) 132–137 1000 Hz(Hold 3s) 138–143 1100 Hz(Hold 3s) 144–149 1200 Hz(Hold 3s) 150–155 1300 Hz(Hold 3s) 156–161 1400 Hz(Hold 3s) 162–167 1500 Hz(Hold 3s) 168–173 2500 Hz(Hold 3s) 174–179 4000 Hz(Hold 3s) 180–185 5000 Hz(Hold 3s) 186–191 10000 Hz(Hold 3s) 192–197 15000 Hz(Hold 3s) 198–203 20000 Hz(Hold 3s) 204–209 25000 Hz(Hold 3s) 210–221 Reset Pan/Tilt (Hold 3s) 222–233 Reset only Head(Hold 3s) 234–255 Reset All Functions(Hold 3s)