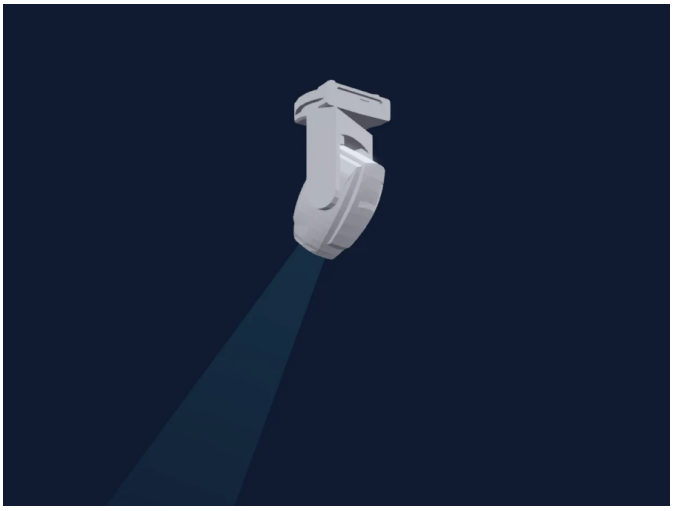
CKC Lighting

V2BSW



Manufacturer	**CKC Lighting**
Type	**Moving head**
DMX modes	**3**
DMX footprint	**19, 23, 25 channels**
Beam angle	**3-34°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**202 × 315 × 201 mm**
GDTF fixture type	**22BADC9F-EE4D-4D8D-BDD2-3…**

Controls

Focus · Frost · Prism · Prism rotation · Zoom · Colour wheel · Strobe · Dimmer · Pan and tilt · Movement speed · Gobos · Gobo rotation

Safety-relevant functions

Strobe

DMX modes

Basic 19CH	19 ch
Standard 23CH	23 ch
Extended 25CH	25 ch

Basic 19CH

19 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Tilt	128	
3	Color Wheel	0	0–8 Open / white (wheel slot 1) 9–13 Red (wheel slot 2) 14–18 Blue (wheel slot 3) 19–23 Green (wheel slot 4) 24–28 Yellow (wheel slot 5) 29–33 Orange (wheel slot 6) 34–38 Magenta J12-8-6 (wheel slot 7) 39–43 Magenta A250-5RB-9 (wheel slot 8) 44–48 Dark Blue (wheel slot 9) 49–53 Light Blue (wheel slot 10) 54–58 Light Green (wheel slot 11) 59–63 3200K CTO (wheel slot 12) 64–127 Color Mixing 128–189 Fast to Slow CW 190–193 No Rotation 194–255 Slow to Fast CCW
4	Gobo	0	0–5 open (wheel slot 1) 6–14 Gobo1 (wheel slot 2) 15–23 Gobo2 (wheel slot 3) 24–32 Gobo3 (wheel slot 4) 33–41 Gobo4 (wheel slot 5) 42–50 Gobo5 (wheel slot 6) 51–59 Gobo6 (wheel slot 7) 60–68 Gobo7 (wheel slot 8) 69–77 Gobo8 (wheel slot 9) 78–91 Gobo 1 shake (wheel slot 2) 92–105 Gobo 2 shake (wheel slot 3) 106–119 Gobo 3 shake (wheel slot 4) 120–133 Gobo 4 shake (wheel slot 5) 134–147 Gobo 5 shake (wheel slot 6) 148–161 Gobo 6 shake (wheel slot 7) 162–175 Gobo 7 shake (wheel slot 8) 176–189 Gobo 8 shake (wheel slot 9) 190–221 Fast to Slow CW 222–223 No Rotation 224–255 Slow to Fast CCW
5	Gobo Rotation	0	0–127 Indexing 128–189 Fast to Slow CW 190–193 No Rotation 194–255 Slow to Fast CW

Basic 19CH (continued)

Ch	Function	Default	DMX values
6	Gobo 2	0	0–9 Open (wheel slot 1) 10–13 Gobo 1 (wheel slot 2) 14–17 Gobo 2 (wheel slot 3) 18–21 Gobo 3 (wheel slot 4) 22–25 Gobo 4 (wheel slot 5) 26–29 Gobo 5 (wheel slot 6) 30–33 Gobo 6 (wheel slot 7) 34–37 Gobo 7 (wheel slot 8) 38–41 Gobo 8 (wheel slot 9) 42–45 Gobo 9 (wheel slot 10) 46–49 Gobo 10 (wheel slot 11) 50–53 Gobo 11 (wheel slot 12) 54–57 Gobo 12 (wheel slot 13) 58–61 Gobo 13 (wheel slot 14) 62–65 Gobo 14 (wheel slot 15) 66–69 Gobo 15 (wheel slot 16) 70–77 Gobo 1 shake (wheel slot 2) 78–85 Gobo 2 shake (wheel slot 3) 86–93 Gobo 3 shake (wheel slot 4) 94–101 Gobo 4 shake (wheel slot 5) 102–109 Gobo 5 shake (wheel slot 6) 110–117 Gobo 6 shake (wheel slot 7) 118–125 Gobo 7 shake (wheel slot 8) 126–133 Gobo 8 shake (wheel slot 9) 134–141 Gobo 9 shake (wheel slot 10) 142–149 Gobo 10 shake (wheel slot 11) 150–157 Gobo 11 shake (wheel slot 12) 158–165 Gobo 12 shake (wheel slot 13) 166–173 Gobo 13 shake (wheel slot 14) 174–181 Gobo 14 shake (wheel slot 15) 182–189 Gobo 15 shake (wheel slot 16) 190–221 Fast to Slow CW 222–223 No Rotation 224–255 Slow to Fast CCW
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	Dimmer	0	0–254 Intensity 0% 255–255 Intensity 100%
9	Prism	0	0–31 No Prism (wheel slot 1) 32–255 8 Facet Prism (wheel slot 2)
10	Prism Rotation	0	0–5 Rot Off 6–128 Index 0-540 129–191 Fast to Slow CW 192–192 No Rotation 193–255 Slow to Fast CCW

Basic 19CH (continued)

Ch	Function	Default	DMX values
11	Prism	0	0–14 Open (wheel slot 3) 15–29 Macro1 30–44 Macro2 45–59 Macro3 60–74 Macro4 75–89 Macro5 90–104 Macro6 105–119 Macro7 120–134 Macro8 135–149 Macro9 150–164 Macro10 165–179 Macro11 180–194 Macro12 195–209 Macro13 210–224 Macro14 225–239 Macro15 240–255 Macro16
12	Prism	0	0–31 Open (wheel slot 1) 32–255 6 Linear Prism (wheel slot 2)
13	Prism Rotation	0	0–5 Rot Off 6–128 Index 0-540 129–191 Fast to Slow CW 192–192 No Rotation 193–255 Slow to Fast CCW
14	Prism	0	0–14 Open (wheel slot 3) 15–29 Macro1 30–44 Macro2 45–59 Macro3 60–74 Macro4 75–89 Macro5 90–104 Macro6 105–119 Macro7 120–134 Macro8 135–149 Macro9 150–164 Macro10 165–179 Macro11 180–194 Macro12 195–209 Macro13 210–224 Macro14 225–239 Macro15 240–255 Macro16
15	Focus	0	
16	Zoom	0	0–254 Narrow 255–255 Wide
17	Frost1	0	
18	Position MSpeed	0	0–225 Fast to Slow 226–235 Blackout by movement 236–245 Blackout by all wheel changing 246–255 No function
19	Control1	0	

Standard 23CH

23 channels

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

Standard 23CH (continued)

Ch	Function	Default	DMX values
4	Tilt Fine	0	Fine byte of Tilt
5	Color Wheel	0	0–8 Open / white (wheel slot 1) 9–13 Red (wheel slot 2) 14–18 Blue (wheel slot 3) 19–23 Green (wheel slot 4) 24–28 Yellow (wheel slot 5) 29–33 Orange (wheel slot 6) 34–38 Magenta J12-8-6 (wheel slot 7) 39–43 Magenta A250-5RB-9 (wheel slot 8) 44–48 Dark Blue (wheel slot 9) 49–53 Light Blue (wheel slot 10) 54–58 Light Green (wheel slot 11) 59–63 3200K CTO (wheel slot 12) 64–127 Color Mixing 128–189 Fast to Slow CW 190–193 No Rotation 194–255 Slow to Fast CCW
6	Gobo	0	0–5 open (wheel slot 1) 6–14 Gobo1 (wheel slot 2) 15–23 Gobo2 (wheel slot 3) 24–32 Gobo3 (wheel slot 4) 33–41 Gobo4 (wheel slot 5) 42–50 Gobo5 (wheel slot 6) 51–59 Gobo6 (wheel slot 7) 60–68 Gobo7 (wheel slot 8) 69–77 Gobo8 (wheel slot 9) 78–91 Gobo 1 shake (wheel slot 2) 92–105 Gobo 2 shake (wheel slot 3) 106–119 Gobo 3 shake (wheel slot 4) 120–133 Gobo 4 shake (wheel slot 5) 134–147 Gobo 5 shake (wheel slot 6) 148–161 Gobo 6 shake (wheel slot 7) 162–175 Gobo 7 shake (wheel slot 8) 176–189 Gobo 8 shake (wheel slot 9) 190–221 Fast to Slow CW 222–223 No Rotation 224–255 Slow to Fast CCW
7	Gobo Rotation	0	0–127 Indexing 128–189 Fast to Slow CW 190–193 No Rotation 194–255 Slow to Fast CW

Standard 23CH (continued)

Ch	Function	Default	DMX values
8	Gobo 2	0	0–9 Open (wheel slot 1) 10–13 Gobo 1 (wheel slot 2) 14–17 Gobo 2 (wheel slot 3) 18–21 Gobo 3 (wheel slot 4) 22–25 Gobo 4 (wheel slot 5) 26–29 Gobo 5 (wheel slot 6) 30–33 Gobo 6 (wheel slot 7) 34–37 Gobo 7 (wheel slot 8) 38–41 Gobo 8 (wheel slot 9) 42–45 Gobo 9 (wheel slot 10) 46–49 Gobo 10 (wheel slot 11) 50–53 Gobo 11 (wheel slot 12) 54–57 Gobo 12 (wheel slot 13) 58–61 Gobo 13 (wheel slot 14) 62–65 Gobo 14 (wheel slot 15) 66–69 Gobo 15 (wheel slot 16) 70–77 Gobo 1 shake (wheel slot 2) 78–85 Gobo 2 shake (wheel slot 3) 86–93 Gobo 3 shake (wheel slot 4) 94–101 Gobo 4 shake (wheel slot 5) 102–109 Gobo 5 shake (wheel slot 6) 110–117 Gobo 6 shake (wheel slot 7) 118–125 Gobo 7 shake (wheel slot 8) 126–133 Gobo 8 shake (wheel slot 9) 134–141 Gobo 9 shake (wheel slot 10) 142–149 Gobo 10 shake (wheel slot 11) 150–157 Gobo 11 shake (wheel slot 12) 158–165 Gobo 12 shake (wheel slot 13) 166–173 Gobo 13 shake (wheel slot 14) 174–181 Gobo 14 shake (wheel slot 15) 182–189 Gobo 15 shake (wheel slot 16) 190–221 Fast to Slow CW 222–223 No Rotation 224–255 Slow to Fast CCW
9	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
10	Dimmer	0	0–254 Intensity 0% 255–255 Intensity 100%
11	Dimmer Fine	0	Fine byte of Dimmer
12	Prism	0	0–31 No Prism (wheel slot 1) 32–255 8 Facet Prism (wheel slot 2)
13	Prism Rotation	0	0–5 Rot Off 6–128 Index 0-540 129–191 Fast to Slow CW 192–192 No Rotation 193–255 Slow to Fast CCW

Standard 23CH (continued)

Ch	Function	Default	DMX values
14	Prism	0	0–14 Open (wheel slot 3) 15–29 Macro1 30–44 Macro2 45–59 Macro3 60–74 Macro4 75–89 Macro5 90–104 Macro6 105–119 Macro7 120–134 Macro8 135–149 Macro9 150–164 Macro10 165–179 Macro11 180–194 Macro12 195–209 Macro13 210–224 Macro14 225–239 Macro15 240–255 Macro16
15	Prism	0	0–31 Open (wheel slot 1) 32–255 6 Linear Prism (wheel slot 2)
16	Prism Rotation	0	0–5 Rot Off 6–128 Index 0-540 129–191 Fast to Slow CW 192–192 No Rotation 193–255 Slow to Fast CCW
17	Prism	0	0–14 Open (wheel slot 3) 15–29 Macro1 30–44 Macro2 45–59 Macro3 60–74 Macro4 75–89 Macro5 90–104 Macro6 105–119 Macro7 120–134 Macro8 135–149 Macro9 150–164 Macro10 165–179 Macro11 180–194 Macro12 195–209 Macro13 210–224 Macro14 225–239 Macro15 240–255 Macro16
18	Focus	0	
19	Zoom	0	0–254 Narrow 255–255 Wide
20	Frost1	0	
21	Dimmer Mode	0	0–20 Default to Unit Setting 21–40 Standard 41–60 Stage 61–80 TV 81–100 Architectural 101–120 Theater 121–140 Stage 2 141–160 Dim Speed From Fast to Slow 161–255 Default to Unit Setting
22	Position MSpeed	0	0–225 Fast to Slow 226–235 Blackout by movement 236–245 Blackout by all wheel changing 246–255 No function
23	Control1	0	

Extended 25CH

25 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	Color Wheel	0	0–8 Open / white (wheel slot 1) 9–13 Red (wheel slot 2) 14–18 Blue (wheel slot 3) 19–23 Green (wheel slot 4) 24–28 Yellow (wheel slot 5) 29–33 Orange (wheel slot 6) 34–38 Magenta J12-8-6 (wheel slot 7) 39–43 Magenta A250-5RB-9 (wheel slot 8) 44–48 Dark Blue (wheel slot 9) 49–53 Light Blue (wheel slot 10) 54–58 Light Green (wheel slot 11) 59–63 3200K CTO (wheel slot 12) 64–127 Color Mixing 128–189 Fast to Slow CW 190–193 No Rotation 194–255 Slow to Fast CCW
6	Gobo	0	0–5 open (wheel slot 1) 6–14 Gobo1 (wheel slot 2) 15–23 Gobo2 (wheel slot 3) 24–32 Gobo3 (wheel slot 4) 33–41 Gobo4 (wheel slot 5) 42–50 Gobo5 (wheel slot 6) 51–59 Gobo6 (wheel slot 7) 60–68 Gobo7 (wheel slot 8) 69–77 Gobo8 (wheel slot 9) 78–91 Gobo 1 shake (wheel slot 2) 92–105 Gobo 2 shake (wheel slot 3) 106–119 Gobo 3 shake (wheel slot 4) 120–133 Gobo 4 shake (wheel slot 5) 134–147 Gobo 5 shake (wheel slot 6) 148–161 Gobo 6 shake (wheel slot 7) 162–175 Gobo 7 shake (wheel slot 8) 176–189 Gobo 8 shake (wheel slot 9) 190–221 Fast to Slow CW 222–223 No Rotation 224–255 Slow to Fast CCW
7	Gobo Rotation	0	0–127 Indexing 128–189 Fast to Slow CW 190–193 No Rotation 194–255 Slow to Fast CW

Extended 25CH (continued)

Ch	Function	Default	DMX values
8	Gobo 2	0	0–9 Open (wheel slot 1) 10–13 Gobo 1 (wheel slot 2) 14–17 Gobo 2 (wheel slot 3) 18–21 Gobo 3 (wheel slot 4) 22–25 Gobo 4 (wheel slot 5) 26–29 Gobo 5 (wheel slot 6) 30–33 Gobo 6 (wheel slot 7) 34–37 Gobo 7 (wheel slot 8) 38–41 Gobo 8 (wheel slot 9) 42–45 Gobo 9 (wheel slot 10) 46–49 Gobo 10 (wheel slot 11) 50–53 Gobo 11 (wheel slot 12) 54–57 Gobo 12 (wheel slot 13) 58–61 Gobo 13 (wheel slot 14) 62–65 Gobo 14 (wheel slot 15) 66–69 Gobo 15 (wheel slot 16) 70–77 Gobo 1 shake (wheel slot 2) 78–85 Gobo 2 shake (wheel slot 3) 86–93 Gobo 3 shake (wheel slot 4) 94–101 Gobo 4 shake (wheel slot 5) 102–109 Gobo 5 shake (wheel slot 6) 110–117 Gobo 6 shake (wheel slot 7) 118–125 Gobo 7 shake (wheel slot 8) 126–133 Gobo 8 shake (wheel slot 9) 134–141 Gobo 9 shake (wheel slot 10) 142–149 Gobo 10 shake (wheel slot 11) 150–157 Gobo 11 shake (wheel slot 12) 158–165 Gobo 12 shake (wheel slot 13) 166–173 Gobo 13 shake (wheel slot 14) 174–181 Gobo 14 shake (wheel slot 15) 182–189 Gobo 15 shake (wheel slot 16) 190–221 Fast to Slow CW 222–223 No Rotation 224–255 Slow to Fast CCW
9	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
10	Dimmer	0	0–254 Intensity 0% 255–255 Intensity 100%
11	Dimmer Fine	0	Fine byte of Dimmer
12	Prism	0	0–31 No Prism (wheel slot 1) 32–255 8 Facet Prism (wheel slot 2)
13	Prism Rotation	0	0–5 Rot Off 6–128 Index 0-540 129–191 Fast to Slow CW 192–192 No Rotation 193–255 Slow to Fast CCW

Extended 25CH (continued)

Ch	Function	Default	DMX values
14	Prism	0	0–14 Open (wheel slot 3) 15–29 Macro1 30–44 Macro2 45–59 Macro3 60–74 Macro4 75–89 Macro5 90–104 Macro6 105–119 Macro7 120–134 Macro8 135–149 Macro9 150–164 Macro10 165–179 Macro11 180–194 Macro12 195–209 Macro13 210–224 Macro14 225–239 Macro15 240–255 Macro16
15	Prism	0	0–31 Open (wheel slot 1) 32–255 6 Linear Prism (wheel slot 2)
16	Prism Rotation	0	0–5 Rot Off 6–128 Index 0-540 129–191 Fast to Slow CW 192–192 No Rotation 193–255 Slow to Fast CCW
17	Prism	0	0–14 Open (wheel slot 3) 15–29 Macro1 30–44 Macro2 45–59 Macro3 60–74 Macro4 75–89 Macro5 90–104 Macro6 105–119 Macro7 120–134 Macro8 135–149 Macro9 150–164 Macro10 165–179 Macro11 180–194 Macro12 195–209 Macro13 210–224 Macro14 225–239 Macro15 240–255 Macro16
18	Focus	0	
19	Zoom	0	0–254 Narrow 255–255 Wide
20	Zoom Fine	0	Fine byte of Zoom
21	Frost1	0	
22	Dimmer Mode	0	0–20 Default to Unit Setting 21–40 Standard 41–60 Stage 61–80 TV 81–100 Architectural 101–120 Theater 121–140 Stage 2 141–160 Dim Speed From Fast to Slow 161–255 Default to Unit Setting

Extended 25CH (continued)

Ch	Function	Default	DMX values
23	Dimmer Curve	0	0–20 Square 21–40 Linear 41–60 Inv Squa 61–80 S Curve 81–255 No function
24	Position MSpeed	0	0–225 Fast to Slow 226–235 Blackout by movement 236–245 Blackout by all wheel changing 246–255 No function
25	Control1	0	