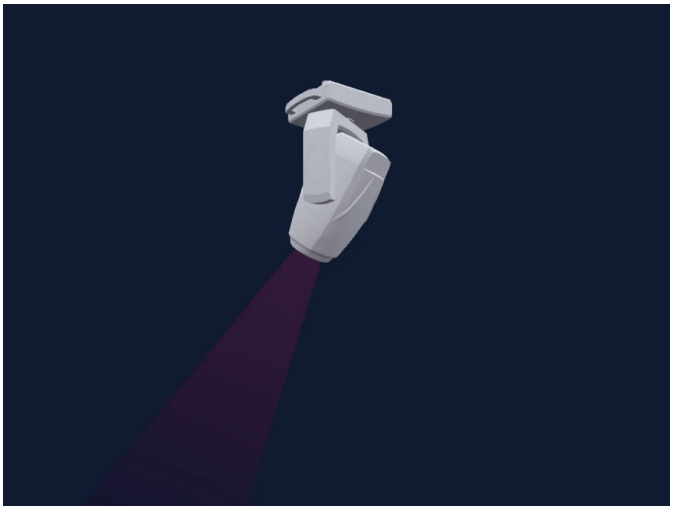
CKC Lighting

V6sIP



Manufacturer	**CKC Lighting**
Type	**Moving head**
DMX modes	**3**
DMX footprint	**24, 29, 36 channels**
Beam angle	**6-44°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**304 × 522 × 260 mm**
GDTF fixture type	**D845F768-B54C-46BA-BDA9-F3…**

Controls

Focus · Frost · 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

Strobe

DMX modes

Basic 24CH	24 ch
Standard 29CH	29 ch
Extended 36CH	36 ch

Basic 24CH

24 channels

Ch	Function	Default	DMX values
1	Pan	128	0–127 min 128–255 Empty Channel Set
2	Tilt	128	
3	Cyan	0	
4	Magenta	0	
5	Yellow	0	
6	C TO	0	
7	Color Effects1	0	
8	Color Wheel	0	0–4 Open (wheel slot 1) 5–17 Open / Red (wheel slot 2) 18–30 Red (wheel slot 3) 31–43 Red / Medium Blue (wheel slot 4) 44–56 Medium Blue (wheel slot 5) 57–69 Medium Blue / Green (wheel slot 6) 70–82 Green (wheel slot 7) 83–95 Green / Amber (wheel slot 8) 96–108 Amber (wheel slot 9) 109–121 Amber / Orange (wheel slot 10) 122–134 Orange (wheel slot 11) 135–147 Orange / High CRI Filter (wheel slot 12) 148–160 High CRI Filter (wheel slot 13) 161–173 High CRI Filter / CTB (wheel slot 14) 174–186 CTB (wheel slot 15) 187–199 CTB / Open (wheel slot 16) 200–226 Fast to Slow CW 227–228 No Rotation 229–255 Slow to Fast CCW
9	Gobo	0	0–9 open (wheel slot 1) 10–19 Gobo1 (wheel slot 2) 20–29 Gobo2 (wheel slot 3) 30–39 Gobo3 (wheel slot 4) 40–49 Gobo4 (wheel slot 5) 50–59 Gobo5 (wheel slot 6) 60–69 Gobo6 (wheel slot 7) 70–79 Gobo7 (wheel slot 8) 80–94 Gobo 1 shake (wheel slot 2) 95–109 Gobo 2 shake (wheel slot 3) 110–124 Gobo 3 shake (wheel slot 4) 125–139 Gobo 4 shake (wheel slot 5) 140–154 Gobo 5 shake (wheel slot 6) 155–169 Gobo 6 shake (wheel slot 7) 170–189 Gobo 7 shake (wheel slot 8) 190–221 Fast to Slow CW 222–223 Stop 224–255 Slow to Fast CCW
10	Gobo Rotation	0	0–5 Rot Off 6–128 0-540 129–191 Fast to Slow CW 192–192 No Rotation 193–255 Slow to Fast CW

Basic 24CH (continued)

Ch	Function	Default	DMX values
11	Gobo 2	0	0–5 Open (wheel slot 1) 6–14 Gobo 1 (wheel slot 2) 15–23 Gobo 2 (wheel slot 3) 24–32 Gobo 3 (wheel slot 4) 33–41 Gobo 4 (wheel slot 5) 42–50 Gobo 5 (wheel slot 6) 51–59 Gobo 6 (wheel slot 7) 60–68 Gobo 7 (wheel slot 8) 69–77 Gobo 8 (wheel slot 9) 78–91 Gobo 1 shake 92–105 Gobo 2 shake 106–119 Gobo 3 shake 120–133 Gobo 4 shake 134–147 Gobo 5 shake 148–161 Gobo 6 shake 162–175 Gobo 7 shake 176–189 Gobo 8 shake 190–221 Fast to Slow CW 222–223 No Rotation 224–255 Slow to Fast CCW
12	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
13	Dimmer	0	0–254 Intensity 0% 255–255 Intensity 100%
14	Prism	0	0–5 No Prism (wheel slot 1) 6–66 6 Linear Prism (wheel slot 2) 67–127 4 Facet Prism (wheel slot 3) 128–135 Macro1 136–143 Macro2 144–151 Macro3 152–159 Macro4 160–167 Macro5 168–175 Macro6 176–183 Macro7 184–191 Macro8 192–199 Macro9 200–207 Macro10 208–215 Macro11 216–223 Macro12 224–231 Macro13 232–239 Macro14 240–247 Macro15 248–255 Macro16
15	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
16	Focus	0	
17	Zoom	0	0–254 Narrow 255–255 Wide

Basic 24CH (continued)

Ch	Function	Default	DMX values
18	Frost1	0	
19	Frost2	0	
20	Animation Wheel1	0	0–5 Rot OFF 6–128 0-540 129–191 Fast to Slow CW 192–192 No Rotation 193–255 Slow to Fast CCW
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 2 141–141 01Sec 142–142 02 Sec 143–143 03 Sec 144–144 04 Sec 145–145 05 Sec 146–146 06 Sec 147–147 07 Sec 148–148 08 Sec 149–149 09 Sec 150–151 1 Sec 152–152 2 Sec 153–153 3 Sec 154–154 4 Sec 155–155 5 Sec 156–156 6 Sec 157–157 7 Sec 158–158 8 Sec 159–159 9 Sec 160–160 10 Sec 161–255 Default to Unit Setting
22	Color Mix MSpeed	0	
23	Position MSpeed	0	0–225 Fast to Slow 226–235 Blackout by movement 236–245 Blackout by all wheel changing 246–255 No function
24	Control1	0	

Standard 29CH

29 channels

Ch	Function	Default	DMX values
1	Pan	128	0–127 min 128–255 Empty Channel Set
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Cyan	0	
6	Magenta	0	
7	Yellow	0	
8	C TO	0	
9	Color Effects1	0	

Standard 29CH (continued)

Ch	Function	Default	DMX values
10	Color Wheel	0	0–4 Open (wheel slot 1) 5–17 Open / Red (wheel slot 2) 18–30 Red (wheel slot 3) 31–43 Red / Medium Blue (wheel slot 4) 44–56 Medium Blue (wheel slot 5) 57–69 Medium Blue / Green (wheel slot 6) 70–82 Green (wheel slot 7) 83–95 Green / Amber (wheel slot 8) 96–108 Amber (wheel slot 9) 109–121 Amber / Orange (wheel slot 10) 122–134 Orange (wheel slot 11) 135–147 Orange / High CRI Filter (wheel slot 12) 148–160 High CRI Filter (wheel slot 13) 161–173 High CRI Filter / CTB (wheel slot 14) 174–186 CTB (wheel slot 15) 187–199 CTB / Open (wheel slot 16) 200–226 Fast to Slow CW 227–228 No Rotation 229–255 Slow to Fast CCW
11	Color Macro1	0	0–31 OFF 32–39 Macro1 40–47 Macro2 48–55 Macro3 56–63 Macro4 64–71 Macro5 72–79 Macro6 80–87 Macro7 88–95 Macro8 96–103 Macro9 104–111 Macro10 112–119 Macro11 120–127 Macro12 128–135 Macro13 136–143 Macro14 144–151 Macro15 152–159 Macro16 160–167 Macro17 168–175 Macro18 176–183 Macro19 184–191 Macro20 192–199 Macro21 200–207 Macro22 208–215 Macro23 216–223 Macro24 224–231 Macro25 232–239 Macro26 240–247 Macro27 248–255 Random CMY

Standard 29CH (continued)

Ch	Function	Default	DMX values
12	Gobo	0	0–9 open (wheel slot 1) 10–19 Gobo1 (wheel slot 2) 20–29 Gobo2 (wheel slot 3) 30–39 Gobo3 (wheel slot 4) 40–49 Gobo4 (wheel slot 5) 50–59 Gobo5 (wheel slot 6) 60–69 Gobo6 (wheel slot 7) 70–79 Gobo7 (wheel slot 8) 80–94 Gobo 1 shake (wheel slot 2) 95–109 Gobo 2 shake (wheel slot 3) 110–124 Gobo 3 shake (wheel slot 4) 125–139 Gobo 4 shake (wheel slot 5) 140–154 Gobo 5 shake (wheel slot 6) 155–169 Gobo 6 shake (wheel slot 7) 170–189 Gobo 7 shake (wheel slot 8) 190–221 Fast to Slow CW 222–223 Stop 224–255 Slow to Fast CCW
13	Gobo Rotation	0	0–5 Rot Off 6–128 0-540 129–191 Fast to Slow CW 192–192 No Rotation 193–255 Slow to Fast CW
14	Gobo 2	0	0–5 Open (wheel slot 1) 6–14 Gobo 1 (wheel slot 2) 15–23 Gobo 2 (wheel slot 3) 24–32 Gobo 3 (wheel slot 4) 33–41 Gobo 4 (wheel slot 5) 42–50 Gobo 5 (wheel slot 6) 51–59 Gobo 6 (wheel slot 7) 60–68 Gobo 7 (wheel slot 8) 69–77 Gobo 8 (wheel slot 9) 78–91 Gobo 1 shake 92–105 Gobo 2 shake 106–119 Gobo 3 shake 120–133 Gobo 4 shake 134–147 Gobo 5 shake 148–161 Gobo 6 shake 162–175 Gobo 7 shake 176–189 Gobo 8 shake 190–221 Fast to Slow CW 222–223 No Rotation 224–255 Slow to Fast CCW
15	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
16	Dimmer	0	0–254 Intensity 0% 255–255 Intensity 100%
17	Dimmer Fine	0	Fine byte of Dimmer

Standard 29CH (continued)

Ch	Function	Default	DMX values
18	Prism	0	0–5 No Prism (wheel slot 1) 6–66 6 Linear Prism (wheel slot 2) 67–127 4 Facet Prism (wheel slot 3) 128–135 Macro1 136–143 Macro2 144–151 Macro3 152–159 Macro4 160–167 Macro5 168–175 Macro6 176–183 Macro7 184–191 Macro8 192–199 Macro9 200–207 Macro10 208–215 Macro11 216–223 Macro12 224–231 Macro13 232–239 Macro14 240–247 Macro15 248–255 Macro16
19	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
20	Focus	0	
21	Zoom	0	0–254 Narrow 255–255 Wide
22	Frost1	0	
23	Frost2	0	
24	Animation Wheel1	0	0–5 Rot OFF 6–128 0-540 129–191 Fast to Slow CW 192–192 No Rotation 193–255 Slow to Fast CCW

Standard 29CH (continued)

Ch	Function	Default	DMX values
25	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 2 141–141 01Sec 142–142 02 Sec 143–143 03 Sec 144–144 04 Sec 145–145 05 Sec 146–146 06 Sec 147–147 07 Sec 148–148 08 Sec 149–149 09 Sec 150–151 1 Sec 152–152 2 Sec 153–153 3 Sec 154–154 4 Sec 155–155 5 Sec 156–156 6 Sec 157–157 7 Sec 158–158 8 Sec 159–159 9 Sec 160–160 10 Sec 161–255 Default to Unit Setting
26	Dimmer Curve	0	0–20 Square 21–40 Linear 41–60 Inv Squa 61–80 S Curve 81–255 No function
27	Color Mix MSpeed	0	
28	Position MSpeed	0	0–225 Fast to Slow 226–235 Blackout by movement 236–245 Blackout by all wheel changing 246–255 No function
29	Control1	0	

Extended 36CH

36 channels

Ch	Function	Default	DMX values
1	Pan	128	0–127 min 128–255 Empty Channel Set
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Cyan	0	
6	Cyan Fine	0	Fine byte of Cyan
7	Magenta	0	
8	Magenta Fine	0	Fine byte of Magenta
9	Yellow	0	
10	Yellow Fine	0	Fine byte of Yellow
11	C TO	0	
12	C TO Fine	0	Fine byte of C TO

Extended 36CH (continued)

Ch	Function	Default	DMX values
13	Color Effects1	0	
14	Color Wheel	0	0–4 Open (wheel slot 1) 5–17 Open / Red (wheel slot 2) 18–30 Red (wheel slot 3) 31–43 Red / Medium Blue (wheel slot 4) 44–56 Medium Blue (wheel slot 5) 57–69 Medium Blue / Green (wheel slot 6) 70–82 Green (wheel slot 7) 83–95 Green / Amber (wheel slot 8) 96–108 Amber (wheel slot 9) 109–121 Amber / Orange (wheel slot 10) 122–134 Orange (wheel slot 11) 135–147 Orange / High CRI Filter (wheel slot 12) 148–160 High CRI Filter (wheel slot 13) 161–173 High CRI Filter / CTB (wheel slot 14) 174–186 CTB (wheel slot 15) 187–199 CTB / Open (wheel slot 16) 200–226 Fast to Slow CW 227–228 No Rotation 229–255 Slow to Fast CCW
15	Color Macro1	0	0–31 OFF 32–39 Macro1 40–47 Macro2 48–55 Macro3 56–63 Macro4 64–71 Macro5 72–79 Macro6 80–87 Macro7 88–95 Macro8 96–103 Macro9 104–111 Macro10 112–119 Macro11 120–127 Macro12 128–135 Macro13 136–143 Macro14 144–151 Macro15 152–159 Macro16 160–167 Macro17 168–175 Macro18 176–183 Macro19 184–191 Macro20 192–199 Macro21 200–207 Macro22 208–215 Macro23 216–223 Macro24 224–231 Macro25 232–239 Macro26 240–247 Macro27 248–255 Random CMY

Extended 36CH (continued)

Ch	Function	Default	DMX values
16	Gobo	0	0–9 open (wheel slot 1) 10–19 Gobo1 (wheel slot 2) 20–29 Gobo2 (wheel slot 3) 30–39 Gobo3 (wheel slot 4) 40–49 Gobo4 (wheel slot 5) 50–59 Gobo5 (wheel slot 6) 60–69 Gobo6 (wheel slot 7) 70–79 Gobo7 (wheel slot 8) 80–94 Gobo 1 shake (wheel slot 2) 95–109 Gobo 2 shake (wheel slot 3) 110–124 Gobo 3 shake (wheel slot 4) 125–139 Gobo 4 shake (wheel slot 5) 140–154 Gobo 5 shake (wheel slot 6) 155–169 Gobo 6 shake (wheel slot 7) 170–189 Gobo 7 shake (wheel slot 8) 190–221 Fast to Slow CW 222–223 Stop 224–255 Slow to Fast CCW
17	Gobo Rotation	0	0–4 Rot Off 5–127 0-540 128–190 Fast to Slow CW 191–191 No Rotation 192–255 Slow to Fast CW
18	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
19	Gobo 2	0	0–5 Open (wheel slot 1) 6–14 Gobo 1 (wheel slot 2) 15–23 Gobo 2 (wheel slot 3) 24–32 Gobo 3 (wheel slot 4) 33–41 Gobo 4 (wheel slot 5) 42–50 Gobo 5 (wheel slot 6) 51–59 Gobo 6 (wheel slot 7) 60–68 Gobo 7 (wheel slot 8) 69–77 Gobo 8 (wheel slot 9) 78–91 Gobo 1 shake 92–105 Gobo 2 shake 106–119 Gobo 3 shake 120–133 Gobo 4 shake 134–147 Gobo 5 shake 148–161 Gobo 6 shake 162–175 Gobo 7 shake 176–189 Gobo 8 shake 190–221 Fast to Slow CW 222–223 No Rotation 224–255 Slow to Fast CCW
20	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
21	Dimmer	0	0–254 Intensity 0% 255–255 Intensity 100%
22	Dimmer Fine	0	Fine byte of Dimmer

Extended 36CH (continued)

Ch	Function	Default	DMX values
23	Prism	0	0–5 No Prism (wheel slot 1) 6–66 6 Linear Prism (wheel slot 2) 67–127 4 Facet Prism (wheel slot 3) 128–135 Macro1 136–143 Macro2 144–151 Macro3 152–159 Macro4 160–167 Macro5 168–175 Macro6 176–183 Macro7 184–191 Macro8 192–199 Macro9 200–207 Macro10 208–215 Macro11 216–223 Macro12 224–231 Macro13 232–239 Macro14 240–247 Macro15 248–255 Macro16
24	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
25	Focus	0	
26	Focus Fine	0	Fine byte of Focus
27	Zoom	0	0–254 Narrow 255–255 Wide
28	Zoom Fine	0	Fine byte of Zoom
29	Frost1	0	
30	Frost2	0	
31	Animation Wheel1	6	0–5 Rot OFF 6–128 0-540 129–191 Fast to Slow CW 192–192 No Rotation 193–255 Slow to Fast CCW

Extended 36CH (continued)

Ch	Function	Default	DMX values
32	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 2 141–141 01Sec 142–142 02 Sec 143–143 03 Sec 144–144 04 Sec 145–145 05 Sec 146–146 06 Sec 147–147 07 Sec 148–148 08 Sec 149–149 09 Sec 150–151 1 Sec 152–152 2 Sec 153–153 3 Sec 154–154 4 Sec 155–155 5 Sec 156–156 6 Sec 157–157 7 Sec 158–158 8 Sec 159–159 9 Sec 160–160 10 Sec 161–255 Default to Unit Setting
33	Dimmer Curve	0	0–20 Square 21–40 Linear 41–60 Inv Squa 61–80 S Curve 81–255 No function
34	Color Mix MSpeed	0	
35	Position MSpeed	0	0–225 Fast to Slow 226–235 Blackout by movement 236–245 Blackout by all wheel changing 246–255 No function
36	Control1	0	