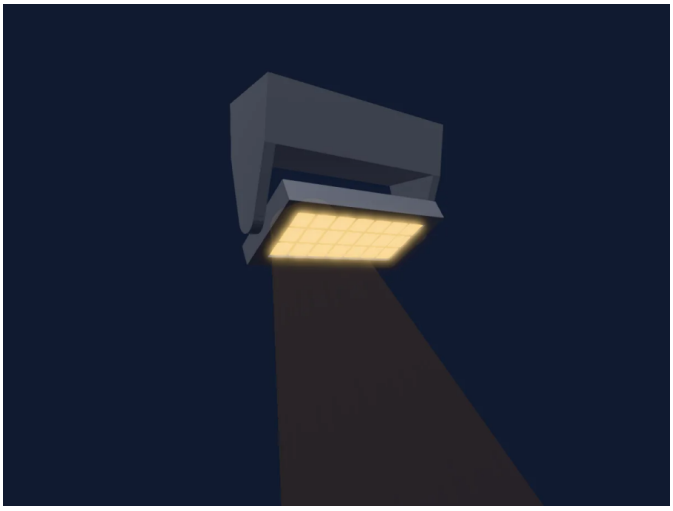
CLF Lighting

SERA Batt



Manufacturer	**CLF Lighting**
Type	**Moving head**
DMX modes	**10**
DMX footprint	**2, 3, 4, 6, 8, 10, 12, 13, 29 channels**
Beam angle	**25°**
Tilt range	**180°**
Heads / cells	**4**
Size (W × H × D)	**330 × 100 × 170 mm**
GDTF fixture type	**BC20D2E4-D3BF-4A10-B0A3-B...**

Controls

Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Effect speed · Strobe · Dimmer · Pixel control

Safety-relevant functions

Fixture reset · Built-in effect programmes

DMX modes

2CH CCT	2 ch
3CH RGB 8bit	3 ch
4CH RGBL 8bit	4 ch
4CH RGBW 8bit	4 ch
6CH RGB 16bit	6 ch
8CH RGBL 16bit	8 ch
10CH 8bit	10 ch
12ch 3xRGBL	12 ch
13CH	13 ch
33CH	29 ch

2CH CCT

2 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–254 Closed 255–255 Open
2	C TO	255	0–5 BlackOut (wheel slot 1) 6–254 10000K 255–255 2500K

3CH RGB 8bit

3 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	

4CH RGBL 8bit

4 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	Color Add GY	255	

4CH RGBW 8bit

4 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	White	255	

6CH RGB 16bit

6 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Red Fine	255	Fine byte of Red
3	Green	255	
4	Green Fine	255	Fine byte of Green
5	Blue	255	
6	Blue Fine	255	Fine byte of Blue

8CH RGBL 16bit

8 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Red Fine	255	Fine byte of Red
3	Green	255	
4	Green Fine	255	Fine byte of Green
5	Blue	255	

8CH RGBL 16bit (continued)

Ch	Function	Default	DMX values
6	Blue Fine	255	Fine byte of Blue
7	Color Add GY	255	
8	Color Add GY Fine	255	Fine byte of Color Add GY

10CH 8bit

10 channels

Ch	Function	Default	DMX values
1	Shutter / Strobe	20	0–19 Closed 20–24 Open 25–63 Shutter1Strobe 2 · StrMax 15–0.872 Hz 64–64 Shutter1Strobe 2 · StrMin 0.5 Hz 65–69 Open 70–83 PulseOpenMax 84–84 PulseOpenMin 85–89 Open 90–103 PulseCloseMax 104–104 PulseCloseMin 105–109 Open 110–123 Shutter1StrobeRandom 8 · RndMax 5–0.821 Hz 124–124 Shutter1StrobeRandom 8 · RndMin 0.5 Hz 125–129 Open 130–143 RandomPulseOpenMax 144–144 RandomPulseOpenMin 145–149 Open 150–163 RandomPulseCloseMax 164–164 RandomPulseCloseMin 165–169 Open 170–183 BurstPulseMax 184–184 BurstPulseMin 185–189 Open 190–203 RandomBurstMax 204–204 RandomBurstMin 205–209 Open 210–223 PulseMax 224–224 PulseMin 225–229 Open 230–243 BurstMin 244–244 BurstMax 245–255 Open
2	Dimmer	0	0–253 Closed 254–255 Open

10CH 8bit (continued)

Ch	Function	Default	DMX values
3	Control1	0	0–29 No function 30–34 Runtime MAX 35–39 Runtime 4H 40–44 Runtime 6H 45–49 Runtime 8H 50–54 Runtime 12H 55–59 NoFeature 60–64 Fan Regulated (3sec) 65–69 Fan Full (3sec) 70–74 Fan Silent1 (3sec) 90–99 Calibrated Colors (3sec) 100–104 RAW Colors (3sec) 105–124 NoFeature 125–129 600HZ (3sec) 130–134 1200HZ (3sec) 135–139 4800HZ (3sec) 140–144 10000HZ (3sec) 145–149 25000HZ (3sec) 150–154 Empty Channel Set 155–164 CRI High (3sec) 165–169 CRI LOW (3sec) 170–174 NoFeature 175–179 WDMX - Reset (3sec) 185–189 DimmerSpeedNormal (3sec) 190–194 NoFunction 195–199 DimmerSmooth 1 (3sec) 200–205 DimmerSmooth 2 (3sec) 206–209 DimmerSmooth 3 (3sec) 210–214 DimmerSmooth 4 (3sec) 215–249 NoFeature 250–255 DisplayON

10CH 8bit (continued)

Ch	Function	Default	DMX values
4	Color Wheel	0	0–5 ColorMix (wheel slot 1) 6–6 Medium Bastard Amber L004 (wheel slot 2) 7–7 Pale Yellow L007 (wheel slot 3) 8–8 Dark Salmon L008 (wheel slot 4) 9–9 Pale Amber Gold L009 (wheel slot 5) 10–10 Medium Yellow L010 (wheel slot 6) 11–11 Straw Tint L013 (wheel slot 7) 12–12 Deep Straw L015 (wheel slot 8) 13–13 Surprise Peach L017 (wheel slot 9) 14–14 Medium Amber L020 (wheel slot 10) 15–15 Dark Amber L022 (wheel slot 11) 16–16 Sunset Red L025 (wheel slot 12) 17–17 Bright Red L026 (wheel slot 13) 18–18 Medium Pink L036 (wheel slot 14) 19–19 Rose Purple L048 (wheel slot 15) 20–20 Lavender L058 (wheel slot 16) 21–21 Pale Blue L063 (wheel slot 17) 22–22 Sky Blue L068 (wheel slot 18) 23–23 Tokyo Blue L071 (wheel slot 19) 24–24 Evening Blue L075 (wheel slot 20) 25–25 Lime Green L088 (wheel slot 21) 26–26 Moss Green L089 (wheel slot 22) 27–27 Dark Yellow Green L090 (wheel slot 23) 28–28 Yellow L101 (wheel slot 24) 29–29 Straw L103 (wheel slot 25) 30–30 Deep Amber L104 (wheel slot 26) 31–31 Orange L105 (wheel slot 27) 32–32 Primary Red L106 (wheel slot 28) 33–33 Light Rose L107 (wheel slot 29) 34–34 English Rose L108 (wheel slot 30) 35–35 Light Salmon L109 (wheel slot 31) 36–36 Middle Rose L110 (wheel slot 32) 37–37 Dark Pink L111 (wheel slot 33) 38–38 Magenta L113 (wheel slot 34) 39–39 Peacock Blue L115 (wheel slot 35) 40–40 Steel Blue L117 (wheel slot 36) 41–41 Light Blue L118 (wheel slot 37) 42–42 Dark Blue L119 (wheel slot 38) 43–43 LEE Green L121 (wheel slot 39) 44–44 Fern Green L122 (wheel slot 40) 45–45 Dark Green L124 (wheel slot 41) 46–46 Mauve L126 (wheel slot 42) 47–47 Smokey Pink L127 (wheel slot 43) 48–48 Bright Pink L128 (wheel slot 44) 49–49 Marine Blue L131 (wheel slot 45) 50–50 Medium Blue L132 (wheel slot 46) 51–51 Golden Amber L134 (wheel slot 47) 52–52 Deep Golden Amber L135 (wheel slot 48) 53–53 Special Lavender L137 (wheel slot 49) 54–54 Pale Green L138 (wheel slot 50) 55–55 Primary Green L139 (wheel slot 51) 56–56 Summer Blue L140 (wheel slot 52) 57–57 Bright Blue L141 (wheel slot 53) 58–58 Pale Violet L142 (wheel slot 54) 59–59 Pale Navy Blue L143 (wheel slot 55) 60–60 No Colour Blue L144 (wheel slot 56) 61–61 Apricot L147 (wheel slot 57) 62–62 Bright Rose L148 (wheel slot 58) 63–63 Gold Tint L151 (wheel slot 59) 64–64 Pale Gold L152 (wheel slot 60) 65–65 Pale Salmon L153 (wheel slot 61) 66–66 Pale Rose L154 (wheel slot 62) 67–67 Chocolate L156 (wheel slot 63) 68–68 Pink L157 (wheel slot 64)

10CH 8bit (continued)

Ch	Function	Default	DMX values
5	Red	255	
6	Green	255	
7	Blue	255	
8	Color Add GY	255	
9	C TO	0	0–5 ColorMix 6–254 10000K 255–255 2500K
10	Tint	0	0–0 No Tint Correction 1–126 Min 127–254 Normal 255–255 Max

12ch 3xRGBL

12 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	Color Add GY	255	
5	Red	255	
6	Green	255	
7	Blue	255	
8	Color Add GY	255	
9	Red	255	
10	Green	255	
11	Blue	255	
12	Color Add GY	255	

13CH

13 channels

Ch	Function	Default	DMX values

13CH (continued)

Ch	Function	Default	DMX values
1	Shutter / Strobe	20	0–19 Closed 20–24 Open 25–63 Shutter1Strobe 2 · StrMax 15–0.872 Hz 64–64 Shutter1Strobe 2 · StrMin 0.5 Hz 65–69 Open 70–83 StrobePulseOpenMax 84–84 StrobePulseOpenMin 85–89 Open 90–103 StrobePulseCloseMax 104–104 StrobePulseCloseMin 105–109 Open 110–123 StrobeRandomMax 124–124 StrobeRandomMin 125–129 Open 130–143 StrobeRandomPulseOpenMax 144–144 StrobeRandomPulseOpenMin 145–149 Open 150–163 StrobeRandomPulseCloseMax 164–164 StrobeRandomPulseCloseMin 165–169 Open 170–183 BurstPulseMax 184–184 BurstPulseMin 185–189 Open 190–203 RandomBurstMax 204–204 RandomBurstMin 205–209 Open 210–223 StrobePulseMax 224–224 StrobePulseMin 225–229 Open 230–243 BurstMax 244–244 BurstMin 245–255 Open
2	Dimmer	0	0–253 Closed 254–255 Open
3	Dimmer Fine	0	Fine byte of Dimmer

13CH (continued)

Ch	Function	Default	DMX values
4	Control1	0	0–29 No function 30–34 Runtime MAX 35–39 Runtime 4H 40–44 Runtime 6H 45–49 Runtime 8H 50–54 Runtime 12H 55–59 NoFeature 60–64 Fan Regulated (3sec) 65–69 Fan Full (3sec) 70–74 Fan Silent1 (3sec) 90–99 Calibrated Colors (3sec) 100–104 RAW Colors (3sec) 105–124 NoFeature 125–129 600HZ (3sec) 130–134 1200HZ (3sec) 135–139 4800HZ (3sec) 140–144 10000HZ (3sec) 145–149 25000HZ (3sec) 150–154 Empty Channel Set 155–164 CRI High (3sec) 165–169 CRI LOW (3sec) 170–174 NoFeature 175–179 WDMX - Reset (3sec) 185–189 DimmerSpeedNormal (3sec) 190–194 NoFunction 195–199 DimmerSmooth 1 (3sec) 200–205 DimmerSmooth 2 (3sec) 206–209 DimmerSmooth 3 (3sec) 210–214 DimmerSmooth 4 (3sec) 215–249 NoFeature 250–255 DisplayON

13CH (continued)

Ch	Function	Default	DMX values
5	Color Wheel	0	0–5 ColorMix (wheel slot 1) 6–6 Medium Bastard Amber L004 (wheel slot 2) 7–7 Pale Yellow L007 (wheel slot 3) 8–8 Dark Salmon L008 (wheel slot 4) 9–9 Pale Amber Gold L009 (wheel slot 5) 10–10 Medium Yellow L010 (wheel slot 6) 11–11 Straw Tint L013 (wheel slot 7) 12–12 Deep Straw L015 (wheel slot 8) 13–13 Surprise Peach L017 (wheel slot 9) 14–14 Medium Amber L020 (wheel slot 10) 15–15 Dark Amber L022 (wheel slot 11) 16–16 Sunset Red L025 (wheel slot 12) 17–17 Bright Red L026 (wheel slot 13) 18–18 Medium Pink L036 (wheel slot 14) 19–19 Rose Purple L048 (wheel slot 15) 20–20 Lavender L058 (wheel slot 16) 21–21 Pale Blue L063 (wheel slot 17) 22–22 Sky Blue L068 (wheel slot 18) 23–23 Tokyo Blue L071 (wheel slot 19) 24–24 Evening Blue L075 (wheel slot 20) 25–25 Lime Green L088 (wheel slot 21) 26–26 Moss Green L089 (wheel slot 22) 27–27 Dark Yellow Green L090 (wheel slot 23) 28–28 Yellow L101 (wheel slot 24) 29–29 Straw L103 (wheel slot 25) 30–30 Deep Amber L104 (wheel slot 26) 31–31 Orange L105 (wheel slot 27) 32–32 Primary Red L106 (wheel slot 28) 33–33 Light Rose L107 (wheel slot 29) 34–34 English Rose L108 (wheel slot 30) 35–35 Light Salmon L109 (wheel slot 31) 36–36 Middle Rose L110 (wheel slot 32) 37–37 Dark Pink L111 (wheel slot 33) 38–38 Magenta L113 (wheel slot 34) 39–39 Peacock Blue L115 (wheel slot 35) 40–40 Steel Blue L117 (wheel slot 36) 41–41 Light Blue L118 (wheel slot 37) 42–42 Dark Blue L119 (wheel slot 38) 43–43 LEE Green L121 (wheel slot 39) 44–44 Fern Green L122 (wheel slot 40) 45–45 Dark Green L124 (wheel slot 41) 46–46 Mauve L126 (wheel slot 42) 47–47 Smokey Pink L127 (wheel slot 43) 48–48 Bright Pink L128 (wheel slot 44) 49–49 Marine Blue L131 (wheel slot 45) 50–50 Medium Blue L132 (wheel slot 46) 51–51 Golden Amber L134 (wheel slot 47) 52–52 Deep Golden Amber L135 (wheel slot 48) 53–53 Special Lavender L137 (wheel slot 49) 54–54 Pale Green L138 (wheel slot 50) 55–55 Primary Green L139 (wheel slot 51) 56–56 Summer Blue L140 (wheel slot 52) 57–57 Bright Blue L141 (wheel slot 53) 58–58 Pale Violet L142 (wheel slot 54) 59–59 Pale Navy Blue L143 (wheel slot 55) 60–60 No Colour Blue L144 (wheel slot 56) 61–61 Apricot L147 (wheel slot 57) 62–62 Bright Rose L148 (wheel slot 58) 63–63 Gold Tint L151 (wheel slot 59) 64–64 Pale Gold L152 (wheel slot 60) 65–65 Pale Salmon L153 (wheel slot 61) 66–66 Pale Rose L154 (wheel slot 62) 67–67 Chocolate L156 (wheel slot 63) 68–68 Pink L157 (wheel slot 64)

13CH (continued)

Ch	Function	Default	DMX values
6	Red	255	
7	Green	255	
8	Blue	255	
9	Color Add GY	255	
10	C TO	0	0–5 ColorMix 6–254 10000K 255–255 2500
11	Tint	0	0–0 No Tint Correction 1–126 Min 127–254 Normal 255–255 Max
12	Effect	0	0–9 NoFunction 10–19 Effect 1 20–29 Effect 2 30–39 Effect 3 40–49 Effect 4 50–59 Effect 5 60–69 Effect 6 70–79 Effect 7 80–89 Effect 8 90–99 Effect 9 100–109 Effect 10 110–119 Effect 11 120–129 Effect 12 130–139 Effect 13 140–149 Effect 14 150–159 Effect 15 160–169 Effect 16 170–179 Effect 17 180–189 Effect 18 190–199 Effect 19 200–255 Effect 20
13	Effect Speed	0	0–126 Fast 127–254 Mid 255–255 Slow

33CH

29 channels

Ch	Function	Default	DMX values

33CH (continued)

Ch	Function	Default	DMX values
1	Shutter / Strobe	20	0–19 Closed 20–24 Open 25–63 StrobeMax 64–64 StrobeMin 65–69 Open 70–83 StrobePulseOpenMax 84–84 StrobePulseOpenMin 85–89 Open 90–103 StrobePulseCloseMax 104–104 StrobePulseCloseMin 105–109 Open 110–123 StrobeRandomMax 124–124 StrobeRandomMin 125–129 Open 130–143 StrobeRandomPulseOpenMax 144–144 StrobeRandomPulseOpenMin 145–149 Open 150–163 RandomPulseCloseMax 164–164 RandomPulseCloseMin 165–169 Open 170–183 BurstPulseMax 184–184 BurstPulseMin 185–189 Open 190–203 RandomBurstMax 204–204 RandomBurstMin 205–209 Open 210–223 StrobePulseMax 224–224 StrobePulseMin 225–229 Open 230–243 BurstMax 244–244 BurstMin 245–255 Open
2	Dimmer	0	0–253 Closed 254–255 Open
3	Dimmer Fine	0	Fine byte of Dimmer

33CH (continued)

Ch	Function	Default	DMX values
4	Control1	0	0–29 No function 30–34 Runtime MAX 35–39 Runtime 4H 40–44 Runtime 6H 45–49 Runtime 8H 50–54 Runtime 12H 55–59 NoFeature 60–64 Fan Regulated (3sec) 65–69 Fan Full (3sec) 70–74 Fan Silent1 (3sec) 90–99 Calibrated Colors (3sec) 100–104 RAW Colors (3sec) 105–124 NoFeature 125–129 600HZ (3sec) 130–134 1200HZ (3sec) 135–139 4800HZ (3sec) 140–144 10000HZ (3sec) 145–149 25000HZ (3sec) 150–154 Empty Channel Set 155–164 CRI High (3sec) 165–169 CRI LOW (3sec) 170–174 NoFeature 175–179 WDMX - Reset (3sec) 185–189 DimmerSpeedNormal (3sec) 190–194 NoFunction 195–199 DimmerSmooth 1 (3sec) 200–205 DimmerSmooth 2 (3sec) 206–209 DimmerSmooth 3 (3sec) 210–214 DimmerSmooth 4 (3sec) 215–249 NoFeature 250–255 DisplayON

33CH (continued)

Ch	Function	Default	DMX values
5	Color Wheel	0	0–5 ColorMix (wheel slot 1) 6–6 Medium Bastard Amber L004 (wheel slot 2) 7–7 Pale Yellow L007 (wheel slot 3) 8–8 Dark Salmon L008 (wheel slot 4) 9–9 Pale Amber Gold L009 (wheel slot 5) 10–10 Medium Yellow L010 (wheel slot 6) 11–11 Straw Tint L013 (wheel slot 7) 12–12 Deep Straw L015 (wheel slot 8) 13–13 Surprise Peach L017 (wheel slot 9) 14–14 Medium Amber L020 (wheel slot 10) 15–15 Dark Amber L022 (wheel slot 11) 16–16 Sunset Red L025 (wheel slot 12) 17–17 Bright Red L026 (wheel slot 13) 18–18 Medium Pink L036 (wheel slot 14) 19–19 Rose Purple L048 (wheel slot 15) 20–20 Lavender L058 (wheel slot 16) 21–21 Pale Blue L063 (wheel slot 17) 22–22 Sky Blue L068 (wheel slot 18) 23–23 Tokyo Blue L071 (wheel slot 19) 24–24 Evening Blue L075 (wheel slot 20) 25–25 Lime Green L088 (wheel slot 21) 26–26 Moss Green L089 (wheel slot 22) 27–27 Dark Yellow Green L090 (wheel slot 23) 28–28 Yellow L101 (wheel slot 24) 29–29 Straw L103 (wheel slot 25) 30–30 Deep Amber L104 (wheel slot 26) 31–31 Orange L105 (wheel slot 27) 32–32 Primary Red L106 (wheel slot 28) 33–33 Light Rose L107 (wheel slot 29) 34–34 English Rose L108 (wheel slot 30) 35–35 Light Salmon L109 (wheel slot 31) 36–36 Middle Rose L110 (wheel slot 32) 37–37 Dark Pink L111 (wheel slot 33) 38–38 Magenta L113 (wheel slot 34) 39–39 Peacock Blue L115 (wheel slot 35) 40–40 Steel Blue L117 (wheel slot 36) 41–41 Light Blue L118 (wheel slot 37) 42–42 Dark Blue L119 (wheel slot 38) 43–43 LEE Green L121 (wheel slot 39) 44–44 Fern Green L122 (wheel slot 40) 45–45 Dark Green L124 (wheel slot 41) 46–46 Mauve L126 (wheel slot 42) 47–47 Smokey Pink L127 (wheel slot 43) 48–48 Bright Pink L128 (wheel slot 44) 49–49 Marine Blue L131 (wheel slot 45) 50–50 Medium Blue L132 (wheel slot 46) 51–51 Golden Amber L134 (wheel slot 47) 52–52 Deep Golden Amber L135 (wheel slot 48) 53–53 Special Lavender L137 (wheel slot 49) 54–54 Pale Green L138 (wheel slot 50) 55–55 Primary Green L139 (wheel slot 51) 56–56 Summer Blue L140 (wheel slot 52) 57–57 Bright Blue L141 (wheel slot 53) 58–58 Pale Violet L142 (wheel slot 54) 59–59 Pale Navy Blue L143 (wheel slot 55) 60–60 No Colour Blue L144 (wheel slot 56) 61–61 Apricot L147 (wheel slot 57) 62–62 Bright Rose L148 (wheel slot 58) 63–63 Gold Tint L151 (wheel slot 59) 64–64 Pale Gold L152 (wheel slot 60) 65–65 Pale Salmon L153 (wheel slot 61) 66–66 Pale Rose L154 (wheel slot 62) 67–67 Chocolate L156 (wheel slot 63) 68–68 Pink L157 (wheel slot 64)

33CH (continued)

Ch	Function	Default	DMX values
6	Red	255	
7	Red Fine	255	Fine byte of Red
8	Green	255	
9	Green Fine	255	Fine byte of Green
10	Blue	255	
11	Blue Fine	255	Fine byte of Blue
12	Color Add GY	255	
13	Color Add GY Fine	255	Fine byte of Color Add GY
14	C TO	0	0–5 ColorMix 6–254 10000K 255–255 2500K
15	Tint	0	0–0 No Tint Correction 1–126 Min 127–254 Normal 255–255 Max
16	Red	255	
17	Green	255	
18	Blue	255	
19	Color Add GY	255	
20	Red	255	
21	Green	255	
22	Blue	255	
23	Color Add GY	255	
24	Red	255	
25	Green	255	
26	Blue	255	
27	Color Add GY	255	
28	Effect	0	0–9 NoFunction 10–19 Effect 1 20–29 Effect 2 30–39 Effect 3 40–49 Effect 4 50–59 Effect 5 60–69 Effect 6 70–79 Effect 7 80–89 Effect 8 90–99 Effect 9 100–109 Effect 10 110–119 Effect 11 120–129 Effect 12 130–139 Effect 13 140–149 Effect 14 150–159 Effect 15 160–169 Effect 16 170–179 Effect 17 180–189 Effect 18 190–199 Effect 19 200–255 Effect 20
29	Effect Speed	0	0–0 No Funtion 1–255 Speed