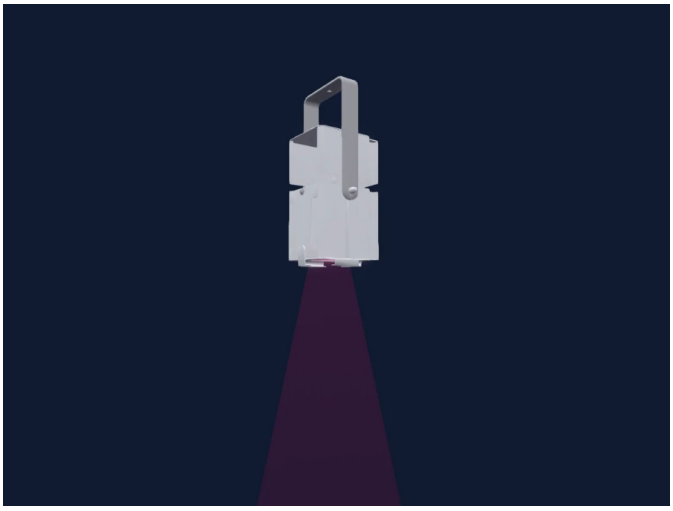
Spotlight

FN LED 50 RGBW (Mark-II)



Manufacturer	**Spotlight**
Type	**Spot**
DMX modes	**5**
DMX footprint	**3, 6, 7, 9, 16 channels**
Beam angle	**25°**
Size (W × H × D)	**149 × 213 × 46 mm**
GDTF fixture type	**DFC44806-A4CC-455F-884A-B2…**

Controls

Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Dimmer

Safety-relevant functions

Service functions

DMX modes

EASY	3 ch
CMY	6 ch
HSI	7 ch
RGBW	9 ch
FULL	16 ch

EASY

3 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	C TC	100	0–15 1500K 16–45 2700K 46–75 3000K 76–105 3200K 106–135 3500K 136–165 4000K 166–195 5600K 196–225 6500K 226–255 8000K

EASY (continued)

Ch	Function	Default	DMX values
3	Color Wheel	0	0–35 NONE (wheel slot 1) 36–39 Red (wheel slot 2) 40–43 Green (wheel slot 3) 44–47 Blue (wheel slot 4) 48–51 Cyan (wheel slot 5) 52–55 Magenta (wheel slot 6) 56–59 Yellow (wheel slot 7) 60–63 LEE004 (wheel slot 8) 64–67 LEE019 (wheel slot 9) 68–71 LEE026 (wheel slot 10) 72–75 LEE058 (wheel slot 11) 76–79 LEE068 (wheel slot 12) 80–83 LEE071 (wheel slot 13) 84–87 LEE101 (wheel slot 14) 88–91 LEE102 (wheel slot 15) 92–95 LEE103 (wheel slot 16) 96–99 LEE106 (wheel slot 17) 100–103 LEE111 (wheel slot 18) 104–107 LEE115 (wheel slot 19) 108–111 LEE116 (wheel slot 20) 112–115 LEE117 (wheel slot 21) 116–119 LEE119 (wheel slot 22) 120–123 LEE124 (wheel slot 23) 124–127 LEE126 (wheel slot 24) 128–131 LEE128 (wheel slot 25) 132–135 LEE131 (wheel slot 26) 136–139 LEE132 (wheel slot 27) 140–143 LEE134 (wheel slot 28) 144–147 LEE136 (wheel slot 29) 148–151 LEE138 (wheel slot 30) 152–155 LEE147 (wheel slot 31) 156–159 LEE154 (wheel slot 32) 160–163 LEE158 (wheel slot 33) 164–167 LEE165 (wheel slot 34) 168–171 LEE169 (wheel slot 35) 172–175 LEE180 (wheel slot 36) 176–179 LEE201 (wheel slot 37) 180–183 LEE202 (wheel slot 38) 184–187 LEE203 (wheel slot 39) 188–191 LEE204 (wheel slot 40) 192–195 LEE205 (wheel slot 41) 196–199 LEE206 (wheel slot 42) 200–203 LEE247 (wheel slot 43) 204–207 LEE248 (wheel slot 44) 208–211 LEE778 (wheel slot 45) 212–215 LEE793 (wheel slot 46) 216–219 CUSTOM 1 (wheel slot 47) 220–223 CUSTOM 2 (wheel slot 48) 224–227 CUSTOM 3 (wheel slot 49) 228–231 CUSTOM 4 (wheel slot 50) 232–235 CUSTOM 5 (wheel slot 51) 236–239 CUSTOM 6 (wheel slot 52) 240–243 CUSTOM 7 (wheel slot 53) 244–247 CUSTOM 8 (wheel slot 54) 248–251 CUSTOM 9 (wheel slot 55) 252–255 CUSTOM 10 (wheel slot 56)

CMY

6 channels

Ch	Function	Default	DMX values
1	Dimmer	0	

CMY (continued)

Ch	Function	Default	DMX values
2	Color RGBCyan	0	
3	Color RGBMagenta	0	
4	Color RGBYellow	0	
5	Strobe Frequency	0	0–200 Strobe 201–230 Store 1 231–255 Store 2
6	Control1	0	0–5 Inactive 6–11 Off 12–17 50ms 18–23 100ms 24–29 240ms 30–35 400ms 36–41 600ms 42–47 800ms 48–53 1000ms 54–59 1200ms 60–65 1600ms 66–71 2000ms 72–77 Linear 78–81 Quadratic 82–83 S Curve 84–85 Halo 86–87 Gamma 2:6 88–89 Gamma 2:8 90–95 600Hz 96–101 900Hz 102–107 1200Hz 108–113 2100Hz 114–119 4200Hz 120–125 6000Hz 126–131 10200Hz 132–137 15600Hz 138–143 19800Hz 144–149 ON 150–155 OFF 156–161 Auto 162–167 Standard 168–173 Silent 174–179 Standard 180–185 Rotated 186–191 Off 192–197 On 198–203 LED Calibration 204–209 Default Settings 210–255 FREE

HSI

7 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	H SBHue	0	
3	H SBHue Fine	0	Fine byte of H SBHue
4	H SBSaturation	0	
5	Reserved 5	0	
6	Strobe Frequency	0	0–200 Strobe 201–230 Store 1 231–255 Store 2

HSI (continued)

Ch	Function	Default	DMX values
7	Control1	0	0–5 Inactive 6–11 Off 12–17 50ms 18–23 100ms 24–29 240ms 30–35 400ms 36–41 600ms 42–47 800ms 48–53 1000ms 54–59 1200ms 60–65 1600ms 66–71 2000ms 72–77 Linear 78–81 Quadratic 82–83 S Curve 84–85 Halo 86–87 Gamma 2:6 88–89 Gamma 2:8 90–95 600Hz 96–101 900Hz 102–107 1200Hz 108–113 2100Hz 114–119 4200Hz 120–125 6000Hz 126–131 10200Hz 132–137 15600Hz 138–143 19800Hz 144–149 ON 150–155 OFF 156–161 Auto 162–167 Standard 168–173 Silent 174–179 Standard 180–185 Rotated 186–191 Off 192–197 On 198–203 LED Calibration 204–209 Default Settings 210–255 FREE

RGBW

9 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Red	0	
3	Green	0	
4	Blue	0	
5	White	0	
6	C TC	100	0–15 1500K 16–45 2700K 46–75 3000K 76–105 3200K 106–135 3500K 136–165 4000K 166–195 5600K 196–225 6500K 226–255 8000K

RGBW (continued)

Ch	Function	Default	DMX values
7	Color Wheel	0	0–35 NONE (wheel slot 1) 36–39 Red (wheel slot 2) 40–43 Green (wheel slot 3) 44–47 Blue (wheel slot 4) 48–51 Cyan (wheel slot 5) 52–55 Magenta (wheel slot 6) 56–59 Yellow (wheel slot 7) 60–63 LEE004 (wheel slot 8) 64–67 LEE019 (wheel slot 9) 68–71 LEE026 (wheel slot 10) 72–75 LEE058 (wheel slot 11) 76–79 LEE068 (wheel slot 12) 80–83 LEE071 (wheel slot 13) 84–87 LEE101 (wheel slot 14) 88–91 LEE102 (wheel slot 15) 92–95 LEE103 (wheel slot 16) 96–99 LEE106 (wheel slot 17) 100–103 LEE111 (wheel slot 18) 104–107 LEE115 (wheel slot 19) 108–111 LEE116 (wheel slot 20) 112–115 LEE117 (wheel slot 21) 116–119 LEE119 (wheel slot 22) 120–123 LEE124 (wheel slot 23) 124–127 LEE126 (wheel slot 24) 128–131 LEE128 (wheel slot 25) 132–135 LEE131 (wheel slot 26) 136–139 LEE132 (wheel slot 27) 140–143 LEE134 (wheel slot 28) 144–147 LEE136 (wheel slot 29) 148–151 LEE138 (wheel slot 30) 152–155 LEE147 (wheel slot 31) 156–159 LEE154 (wheel slot 32) 160–163 LEE158 (wheel slot 33) 164–167 LEE165 (wheel slot 34) 168–171 LEE169 (wheel slot 35) 172–175 LEE180 (wheel slot 36) 176–179 LEE201 (wheel slot 37) 180–183 LEE202 (wheel slot 38) 184–187 LEE203 (wheel slot 39) 188–191 LEE204 (wheel slot 40) 192–195 LEE205 (wheel slot 41) 196–199 LEE206 (wheel slot 42) 200–203 LEE247 (wheel slot 43) 204–207 LEE248 (wheel slot 44) 208–211 LEE778 (wheel slot 45) 212–215 LEE793 (wheel slot 46) 216–219 CUSTOM 1 (wheel slot 47) 220–223 CUSTOM 2 (wheel slot 48) 224–227 CUSTOM 3 (wheel slot 49) 228–231 CUSTOM 4 (wheel slot 50) 232–235 CUSTOM 5 (wheel slot 51) 236–239 CUSTOM 6 (wheel slot 52) 240–243 CUSTOM 7 (wheel slot 53) 244–247 CUSTOM 8 (wheel slot 54) 248–251 CUSTOM 9 (wheel slot 55) 252–255 CUSTOM 10 (wheel slot 56)
8	Strobe Frequency	0	0–200 Strobe 201–230 Store 1 231–255 Store 2

RGBW (continued)

Ch	Function	Default	DMX values
9	Control1	0	0–5 Inactive 6–11 Off 12–17 50ms 18–23 100ms 24–29 240ms 30–35 400ms 36–41 600ms 42–47 800ms 48–53 1000ms 54–59 1200ms 60–65 1600ms 66–71 2000ms 72–77 Linear 78–81 Quadratic 82–83 S Curve 84–85 Halo 86–87 Gamma 2:6 88–89 Gamma 2:8 90–95 600Hz 96–101 900Hz 102–107 1200Hz 108–113 2100Hz 114–119 4200Hz 120–125 6000Hz 126–131 10200Hz 132–137 15600Hz 138–143 19800Hz 144–149 ON 150–155 OFF 156–161 Auto 162–167 Standard 168–173 Silent 174–179 Standard 180–185 Rotated 186–191 Off 192–197 On 198–203 LED Calibration 204–209 Default Settings 210–255 FREE

FULL

16 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer
3	Red	0	
4	Red Fine	0	Fine byte of Red
5	Green	0	
6	Green Fine	0	Fine byte of Green
7	Blue	0	
8	Blue Fine	0	Fine byte of Blue
9	White	0	
10	White Fine	0	Fine byte of White

FULL (continued)

Ch	Function	Default	DMX values
11	Color Wheel	0	0–35 NONE (wheel slot 1) 36–39 Red (wheel slot 2) 40–43 Green (wheel slot 3) 44–47 Blue (wheel slot 4) 48–51 Cyan (wheel slot 5) 52–55 Magenta (wheel slot 6) 56–59 Yellow (wheel slot 7) 60–63 LEE004 (wheel slot 8) 64–67 LEE019 (wheel slot 9) 68–71 LEE026 (wheel slot 10) 72–75 LEE058 (wheel slot 11) 76–79 LEE068 (wheel slot 12) 80–83 LEE071 (wheel slot 13) 84–87 LEE101 (wheel slot 14) 88–91 LEE102 (wheel slot 15) 92–95 LEE103 (wheel slot 16) 96–99 LEE106 (wheel slot 17) 100–103 LEE111 (wheel slot 18) 104–107 LEE115 (wheel slot 19) 108–111 LEE116 (wheel slot 20) 112–115 LEE117 (wheel slot 21) 116–119 LEE119 (wheel slot 22) 120–123 LEE124 (wheel slot 23) 124–127 LEE126 (wheel slot 24) 128–131 LEE128 (wheel slot 25) 132–135 LEE131 (wheel slot 26) 136–139 LEE132 (wheel slot 27) 140–143 LEE134 (wheel slot 28) 144–147 LEE136 (wheel slot 29) 148–151 LEE138 (wheel slot 30) 152–155 LEE147 (wheel slot 31) 156–159 LEE154 (wheel slot 32) 160–163 LEE158 (wheel slot 33) 164–167 LEE165 (wheel slot 34) 168–171 LEE169 (wheel slot 35) 172–175 LEE180 (wheel slot 36) 176–179 LEE201 (wheel slot 37) 180–183 LEE202 (wheel slot 38) 184–187 LEE203 (wheel slot 39) 188–191 LEE204 (wheel slot 40) 192–195 LEE205 (wheel slot 41) 196–199 LEE206 (wheel slot 42) 200–203 LEE247 (wheel slot 43) 204–207 LEE248 (wheel slot 44) 208–211 LEE778 (wheel slot 45) 212–215 LEE793 (wheel slot 46) 216–219 CUSTOM 1 (wheel slot 47) 220–223 CUSTOM 2 (wheel slot 48) 224–227 CUSTOM 3 (wheel slot 49) 228–231 CUSTOM 4 (wheel slot 50) 232–235 CUSTOM 5 (wheel slot 51) 236–239 CUSTOM 6 (wheel slot 52) 240–243 CUSTOM 7 (wheel slot 53) 244–247 CUSTOM 8 (wheel slot 54) 248–251 CUSTOM 9 (wheel slot 55) 252–255 CUSTOM 10 (wheel slot 56)

FULL (continued)

Ch	Function	Default	DMX values
12	C TC	100	0–15 1500K 16–45 2700K 46–75 3000K 76–105 3200K 106–135 3500K 136–165 4000K 166–195 5600K 196–225 6500K 226–255 8000K
13	Intensity MSpeed	50	0–45 None 46–55 0ms 56–65 50ms 66–75 100ms 76–85 150ms 86–95 200ms 96–105 240ms 106–115 300ms 116–125 350ms 126–135 400ms 136–145 450ms 146–155 500ms 156–165 550ms 166–175 600ms 176–185 800ms 186–195 900ms 196–205 1000ms 206–215 1200ms 216–225 1400ms 226–235 1600ms 236–245 1800ms 246–255 2000ms
14	Fans	0	
15	Strobe Frequency	0	0–200 Strobe 201–230 Store 1 231–255 Store 2

FULL (continued)

Ch	Function	Default	DMX values
16	Control1	0	0–5 Inactive 6–11 Off 12–17 50ms 18–23 100ms 24–29 240ms 30–35 400ms 36–41 600ms 42–47 800ms 48–53 1000ms 54–59 1200ms 60–65 1600ms 66–71 2000ms 72–77 Linear 78–81 Quadratic 82–83 S Curve 84–85 Halo 86–87 Gamma 2:6 88–89 Gamma 2:8 90–95 600Hz 96–101 900Hz 102–107 1200Hz 108–113 2100Hz 114–119 4200Hz 120–125 6000Hz 126–131 10200Hz 132–137 15600Hz 138–143 19800Hz 144–149 ON 150–155 OFF 156–161 Auto 162–167 Standard 168–173 Silent 174–179 Standard 180–185 Rotated 186–191 Off 192–197 On 198–203 LED Calibration 204–209 Default Settings 210–255 FREE