

A. Contents

- FL5100B
- IEC 60320 C13 to NEMA 5-15 AC Power Cable
- USB to Mini-USB Cable
- LightMix Software

B. Connector and Switch Diagram

| Connectors | Function |
|------------|--|
| | A IEC 60320 C14 Plug for AC Input |
| | B Power Switch |
| | C DIP-Switch for DMX Addressing |
| | D Pushbuttons for Manual Control (2) |
| | E Mini-USB Port for Programming Standalone Operations |
| | F RJ45 Connectors for DMX (2) |
| | G Male XLR5 Connector for DMX |
| | H Femal XLR5 Connector for DMX |

C. Set-up

1. Use Power Cable to connect FL5100B to AC mains
2. Set the power switch so that the (-) symbol is pressed down

D. Using the Pushbutton

Press the Mode Pushbutton to find the output setting in sequence as shown in the table below:

| Mode | RGBW | RGBA |
|------|--|--|
| 0 | Non-programmable: Blank | Non-programmable: Blank |
| 1 | Static Color: White | Static Color: Blue |
| 2 | Static Color: Red | Static Color: Red |
| 3 | Static Color: Green | Static Color: Amber |
| 4 | Static Color: Blue | Static Color: Green |
| 5 | Static Color: Yellow | Static Color: Orange |
| 6 | Static Color: Cyan | Static Color: Chartreus |
| 7 | Static Color: Max Intensity 5000K White | Static Color: Max Intensity 5000K White |
| 8 | Timed Color Sequence: Rainbow | Timed Color Sequence: Rainbow |
| 9 | Timed Color Sequence: Default Blank | Timed Color Sequence: Default Blank |
| 10 | Timed Color Sequence: Default Blank | Timed Color Sequence: Default Blank |
| 11 | Timed Color Sequence: Default Blank | Timed Color Sequence: Default Blank |

Press the Wheel Speed Pushbutton to activate the twinkle wheel with speed in sequence as shown in the table below:

| Mode | 1 | 2 | 3 | 4 | 5 |
|---------|------|----------|--------|----------|------|
| Setting | Slow | Slow-Med | Medium | Med-Fast | Fast |

E. DMX Controls

DMX Addressing

The DIP-Switch settings are binary. The value of these settings represents the DMX address of the first of the series of eight DMX channels shown in the following table.

| DMX ADDRESS | | | | | | | |
|-------------|--|--|--|--|--|--|----|
| 1 | | | | | | | 10 |
| | | | | | | | |

Examples of Dip-switch settings

■U= UP ■D= Down ■N= Null

| Dip-Switches | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | *Totals |
|------------------------|---|---|---|---|----|----|----|-----|-----|----|---------|
| Value when switched up | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 256 | N | - |
| Example 1 | U | U | D | D | U | D | U | U | D | N | 211 |
| Example 2 | D | D | U | U | U | D | U | D | D | N | 92 |

*Totals: DMX address of fixtures first control channel

DMX Channels / DMX Channel Table for RGBW:

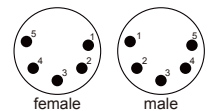
| Channel | Definition | Values |
|---------|------------------------|--|
| 1 | White channel | 0-255 |
| 2 | Red channel | |
| 3 | Green channel | |
| 4 | Blue channel | |
| 5 | Max 5000K White | |
| 6 | Master light intensity | |
| 7 | Twinkle Wheel | 0-1: Wheel stopped; 2-125: Wheel turns clockwise from slow (2) to fast (125); 126-131: Wheel Stopped; 132-255: Wheel turns counter clockwise from fast (132) to slow (255) |
| 8 | Strobe control | 0-1: No Blinking; 2-255 blink rate increases from slow (2) to fast (255) |

DMX Channel Table for RGBA:

| Channel | Definition | Values |
|---------|------------------------|--|
| 1 | Blue channel | 0-255 |
| 2 | Red channel | |
| 3 | Amber channel | |
| 4 | Green channel | |
| 5 | Max 5000K White | |
| 6 | Master light intensity | |
| 7 | Twinkle Wheel | 0-1: Wheel stopped; 2-125: Wheel turns clockwise from slow (2) to fast (125); 126-131: Wheel Stopped; 132-255: Wheel turns counter clockwise from fast (132) to slow (255) |
| 8 | Strobe control | 0-1: No Blinking; 2-255 blink rate increases from slow (2) to fast (255) |

DMX Pin-outs

The DMX data Pin-outs for the respective connector types on the FL5100B are as follows:



| RJ45 | XLR5 | Function |
|------|------|-------------------|
| 1 | 3 | Data (+) |
| 2 | 2 | Data (-) |
| 3 | 5 | Not Assigned |
| 4 | - | Internal Use Only |
| 5 | - | Internal Use Only |
| 6 | 4 | Not Assigned |
| 7 | 1 | DMX Ground |
| 8 | 1 | DMX Ground |

F. Fiber Installation Precautions

When using stranded fiber, make certain that no fibers come into contact with the twinkle effect wheel. Contact over time can cause accelerated failure of the twinkle effect wheel motor.