A. Contents

- FL5600
- IP67 rated 24VDC power supply
- IEC 60320 C13 to NEMA 5-15 AC Power Cable
- USB to Mini-USB Cable

B. Connector and Switch Diagram

Connectors	Function
Portable Cabinet Light	IP67 rated DC connector
ON/OFF	Power Button
MODE / WHEEL SPEED	Pushbuttons for Manual Control (2)
Mini-USB	Mini-USB Port for Programming (Light Mix) Standalone Operations
DMX IN / DMX OUT	RJ45 Connectors for DMX (2)
DIP-Switch	DIP-Switch for DMX Addressing, See Section C
Intensity Bar	Intensity Bar, See Section C

C. Accessing the DIP-Switch and Intensity Bar

The DIP-Switch and Intensity Bar are located within the FL5600 IP65 rated housing. To access the DIP-switch and Intensity bar, use a T10 Torx screw driver to remove the top cover of the FL5600.

Important: Access the DIP-switch and Intensity Bar only when the present conditions are dry and dust / debris free. Make sure to reinstall the top cover properly before placing the FL5600 back into wet conditions.

D. Set-up

1. Use the Power Supply to connect between the FL5600 and AC mains.
2. Press down the Power Button to turn the lights on

E. Using the Pushbutton

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

Mode	RGBW	RGBA	Single Color
0	Blank	Blank	Blank
1	White	Blue	Programmable: Single Color
2	Red	Red	Programmable: Blank
3	Green	Amber	Programmable: Blank
4	Blue	Green	Programmable: Blank
5	Yellow	Orange	Programmable: Blank
6	Cyan	Chartreus	NA
7	Programmable: Mixed 5000K White	Programmable: Mixed 5000K White	NA
8	Programmable: Rainbow	Programmable: Rainbow	NA
9	Programmable: Blank	Programmable: Blank	NA
10	Programmable: Blank	Programmable: Blank	NA
11	Programmable: Blank	Programmable: Blank	NA

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

F. DMX Controls

DMX Addressing

DMX ADDRESS

Refer to section C to access the DIP-switch for 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 DMX Control Channels tables.
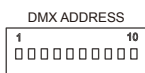
Examples of Dip-switch settings

■U= UP ■D= Down

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	D	-
Example 1	U	U	D	D	U	D	U	U	D	D	211
Example 2	D	D	U	U	U	D	U	D	D	D	92

*Totals = DMX address of fixtures first control channel

DMX Channels

DMX Control Channels	RGBW	RGBA	Single Color
1	White	Blue	Single Color
2	Red	Red	Twinkle Wheel
3	Green	Amber	Strobe Control
4	Blue	Green	NA
5	Mixed 5000K White	Mixed 5000K White	NA
6	Master Light Intensity	Master Light Intensity	NA
7	Twinkle Wheel	Twinkle Wheel	NA
8	Strobe Control	Strobe Control	NA

Notes
Light intensity: 0-255
Twinkle wheel: 0-1 Wheel stopped, 2-125 clockwise rotation slow to fast, 126-131 Wheel stopped, 132-255 Counter clockwise rotation fast to slow.
Strobe Control: 0-1 No blinking, 2-255 Blink rate slow to fast.

DMX Pin-outs

The DMX for the RJ45 connector are as follows:

RJ45	Typical Cat-5e Wire Color	Function
1	Orange/White	Data (+)
2	Orange	Data (-)
3	Green/White	Not Used
4	Blue	Not Used
5	Blue/White	Not Used
6	Green	Not Used
7	Brown/White	DMX Ground
8	Brown	DMX Ground

G. 0-10V Dimming

The 0-10V feeds are delivered through the RJ45 connectors. RJ45 pins are configured as shown in the table below:

RJ45	Typical Cat-5e Wire Color	Function
1	Orange/White	Not Used
2	Orange	Not Used
3	Green/White	10V Source
4	Blue	0-10V Sink
5	Blue/White	Not Used
6	Green	Not Used
7	Brown/White	Reference
8	Brown	Reference

To set the FL5600 in 0-10V dimming mode, set the DIP-switch pin #10 to the up position (reference section C).

- When using a 0-10V Dimmer that is a current sink, connect the variable feed of the controller to both pins 3 and 4. Connect the reference feed of the controller to pins 7 and 8.
- When using a 0-10V Dimmer that is a current source, connect the variable feed of the controller to pin 4 only. Connect the reference feed of the controller to pins 7 and 8.

H. 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.