

A. Contents

- FL5200
- IEC 60320 C13 to NEMA 5-15 AC Power Cable
- USB to Mini-USB Cable

B. Connector and Switch Diagram

Connectors	Function
	IEC 60320 C14 Plug for AC Input
	Power Switch
	DIP-Switch for DMX Addressing
	Pushbuttons for Manual Control (2)
	Mini-USB Port for Programming Standalone Operations
	RJ45 Connectors for DMX (2)
	Female XLR5 Connector for DMX
	Male XLR5 Connector for DMX
	Intensity Bar

C. Set-up

1. Use Power Cable to connect FL5200 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	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

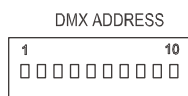
Press the Wheel Speed Pushbutton to activate the twinkle wheel with speed in sequence as shown in the table below:

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

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 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

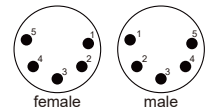
Notes

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 data Pin-outs for the respective connector types on the FL5200 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. 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	NA
2	Orange	NA
3	Green/White	10V Source
4	Blue	0-10V Sink
5	Blue/White	NA
6	Green	NA
7	Brown/White	Reference
8	Brown	Reference

To set the FL5200 in 0-10V dimming mode, set the DMX Address DIP-switch #10 to the up position.

- 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.

G. 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.