# 10W Dual Port Dimmable LED Fiber Optic Illuminator with Remote

**A. Safety Instructions:**

1. Make sure the Light Engine and Power Source have the same voltage
2. Keep out of rain or moist areas to avoid shock hazards.
3. Avoid use in high temperatures (< 40°C or < 104°F).
4. Keep Light Engine in ventilated area.

**B. Technical Data**

Power consumption: 12 Watts
Twinkle Wheel (Installed)
(Optional) Color Wheel or Color Twinkle Wheel Colors: White, Sky-Blue, Green, Yellow, Blue, Purple
Light Source: Two 5 Watts LEDs
Estimated Life of LEDs: 50000 hours
Fiber Quantity: 400 pcs at 0.75mm fiber per port
Size: L125 x W103 x H 80mm ( L 4.92 in x 4.05 in x 3.15 in)
Net weight of Light Engine: 0.6 Kg (1.4 lbs)

**C. Installation**

The installation dimension of the Light Engine. (See Fig. 1).

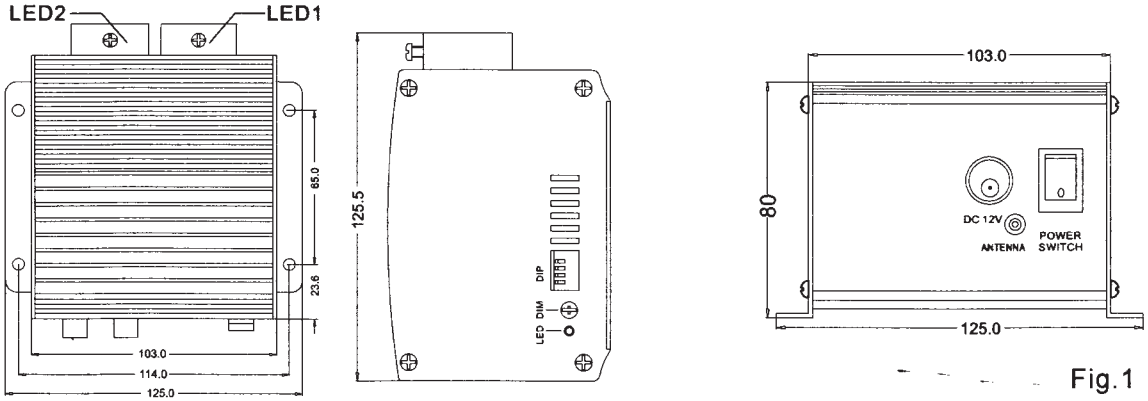



Fig.1

**D. Installation of Fiber Optic Cables.**

1. Cut the fiber to the specified length.
2. Peel off 4-10 cm of protection over of the fiber optic. (If there is no protection cover or "jacket" then there is no need peel of any fiber optic cable.)

**Note**: Take caution not to damage the Fiber Optic Cable.

3. Collect all the fibers into one bundle. Then wrap all the fiber at 10cm from the fiber end with electrical tape. Insert the wrapped fiber optic cables into the light engine's connector and screw the waterproof connector tightly.

Cut the fiber optic smoothly along with light engine's connector with a hot knife ( sold separately ).

4. Insert the whole light engine connector into the fiber fixing set.

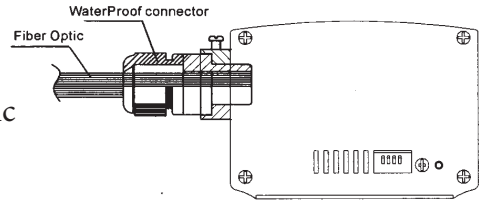



Fig.2

**5. Installation of the fiber Ends.**
Drill holes on the panel or ceiling you wish to install the fiber optic cables.
Pull the fibers through the holes and use glue (we recommend using Elmer's All Multipurpose White Glue) to secure the fibers in place.
For more tips on fiber installation visist our website and view our **Installation Videos** page.

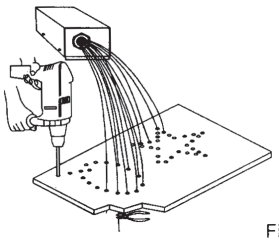


Fig. 3

**D. Light Engine Settings.**
Color change speed of this engine is controlled by the DIP switches. You can find the DIP switches on the rear of the panel. (See Fig. 1). Number 1-3 DIP switch address. Number 4-5 as blank and Number 6 as remote. Please see settings as follow.

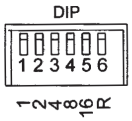
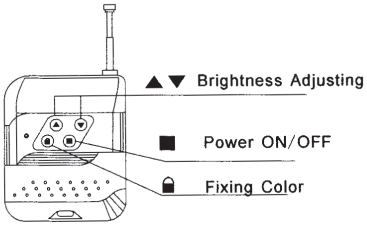



Fig. 4

| Pro. No. | DIP SWITCH (1=ON, 0=OFF) 6 5 4 3 2 1 | EFFECT |
|---|---|---|
| 00 | 0 0 0 0 0 0 | Motor stopped, LED working |
| 01 | 0 0 0 0 0 1 | W, PP, B, Y, G, Sky-B, fade ( 6RPM) |
| 02 | 0 0 0 0 1 0 | W, PP, B, Y, G, Sky-B, fade( 4RPM) |
| 03 | 0 0 0 0 1 1 | W, PP, B, Y, G, Sky-B, fade ( 2.5RPM) |
| 04 | 0 0 0 1 0 0 | W, PP, B, Y, G, Sky-B, fade( 2RPM) |
| 05 | 0 0 0 1 0 1 | W, PP, B, Y, G, Sky-B, fade ( 1.5RPM) |
| 06 | 0 0 0 1 1 0 | W, PP, B, Y, G, Sky-B, fade ( 1RPM) |




Wireless Remote Controller

**1. Use under "without wireless remote controller" mode:**
(1) Color Change: Use DIP switch to select the color change speed:
(2) Fixing Color: First, set the DIP #1 and #3 into the "ON" position to select the slowest speed. Then set all the DIP switches to the "OFF" when it displays the color that you want to stay on.

**2. Use under "with wireless remote controller" mode:**
First, set the DIP switch #6 into the "ON" position. Select the color by pressing the "Fixing Color" button. The "Power ON/OFF" button turns the light engine on and off.
Use the "Brightness Adjusting" buttons to adjust between the 8 levels of light brightness.
Note: The "Fixing Color" buttons is only used for stopping and starting the color wheel. It can not control the color SPEED. For speed control you will need to use the DIP switches.