

## Instructions for installation of the Lighting Kit “Pool”

The **Lighting Kit “POOL”** includes:

Basic kit components:

FOT (Fiber Optic Track)



FOC (Fiber Optic Cable)



The Light Case



Shrink Tubing



**Application:** Highlighting the perimeter of your in ground and above ground pool. The products of the Lighting Division are compliant with the electrical codes in the United States. However, this is not our responsibility to ensure your safety due to hazardous installation of our products. The transformer must be plugged into ground fault receptacle. Extension cords are not to be used around water due to risk of shock. Do not submerge the light case into water.

The intensity of light coming out of the box is very strong. Therefore, to avoid overpowering effect of light we suggest for you to use shrink tubing supplied in your lighting kit. The first 6 inches of fiber coming from the light source and last six inches of fiber can be blackened if desired. In case you wish to avoid lighting in certain areas of your pool, you are free to purchase any length of shrink tubing from us.

### Working with a single light case

Step 1. To determine the length of fiber and track, please measure the perimeter you wish to light.

Step 2. **FOT installation.**

Install the track along the area you wish to light. Cut the track with sharp scissors or razor cutters



to fit where needed. Please leave 1 inch of space uncovered by track before every corner. See pictures.



Our FOT is a flexible channel but it can be deformed if bent to 90 degrees or more. FOT is a channel for the fiber optic cable that can be used as a whole or modified by removing of wings if necessary for the narrow surfaces. The track comes with the double-sided tape that helps to hold it temporarily. Remove the backing of the tape. In addition, for wet locations we recommend Silicone Adhesive Sealant



for outdoor use. Apply a small bead of silicone adhesive sealant along the length of the track. Press gently along the length of the track.

**NOTE:** It is important to clean the surface you wish to attach to the track for proper adhesion. Gently wipe excess silicone adhesive sealant away for a clean look.

### Step 3. **FOC installation**

Once the track installation is complete, you may now work with fiber optic cable (FOC). Do not cut excess fiber before installation. Place the fiber into the groove of the FOT and push it inside. The fiber should be fully embedded into the track channel.

Repeat installation all along the path of the FOT. When going around the corners of the surface keep the fiber snug without stretching it.

Once you completed the installation of your fiber, you can either leave the end of the fiber uncovered for an end emitting effect or cover the end of the fiber with the shrink tubing and wire tie provided. See picture.



**Step 4. Connection of a light source to cable.**

Cut off a quarter of an inch of fiber with clean razor cutters to ensure optimal light transition. Cover the end of the fiber with the shrink tubing (6 inches long) leaving 3/4' uncovered by the tubing.

Insert the fiber optic cable inside the light case grip approximately 1 inch. There should not be a bare cable between the cord grip and shrink tubing. Tighten cable grip snug but not too tight.

Step 5. Plug in the provided power supply and attach to the light case.

Step 6. With the dimmable capabilities of the light case you can control light intensity for your pool lighting system.

Step 7. Enjoy!

**Working with two light cases**

Two light cases can be used for longer lengths, higher intensities, or for mixing of colors. Please check the information about color spectrum mixing

<http://latiumsoftware.com/en/articles/00015.php#1>

Repeat steps 4 through 7.

We supply 1 foot of shrink tubing with every light case order. Please keep the light cases and power supplies away from water.