Connecting the Dual Ramp Timer to your LED light(s)

1. Connect your 12-24VDC transformer to the female DC plug on the timer.

2. Connect your LED light(s) to the male DC plugs on the timer. Blue light channel (dawn/dusk/moonlight) connects to Line 1. White light channel (daylight) connects to Line 2 (refer to tags on controller cable).

3. Remove plastic cover from wireless remote and remove clear plastic tab located at the bottom of the remote.

4. Locate a dry location not near water or salt creep. Clean area thoroughly.

5. Use velcro included to mount Dual Ramp Timer to mounting location.

Note: Ramp Timer Pro and remote are NOT waterproof. Ensure neither are located in a location of splashing water or salt creep.
Quick Installation Guide Continued

The Dual Ramp Timer includes a wireless infrared IR remote for easy programming. Please review the following remote features:

- **Resume programming** Exits a dynamic mode and resumes timer lighting schedule
- **Sets 24hr. clock** Used for setting the current time of day
- **Controls line 1** Used for programming channel 1 (usually blue)
- **Controls line 2** Used for programming channel 2 (usually white)
- **Main on/off** Manually turns lights on/off
- **Main adjustment** Used for setting hour, minutes or +/- settings
- **Program on/off** Used for programming on/off for each channel
- **Intensity adjust** Used for setting the min/max intensity for each channel
- **Manual color adjustment** Provides manual adjustment of each channel. Blue buttons adjust line 1 (blue), white buttons adjust line 2 (daylight)

When programming, point the remote at the IR sensor on the Dual Ramp Timer. It is important to have a direct line of site when using the wireless remote.

Dual Ramp Timer features two independent light channels which feature the following:
- Program on/off times
- Adjustable minimum and maximum intensity (0-100%)
- Pre-programmed 15 minute ramp (sunrise) and dim (sunset)

Programming Using the Wireless IR Remote

### Step 1: Setting the clock

- Press **SET CLOCK**
- Press **HOUR** and **MINUTE** until the current time of day is displayed.
- Time will flash for 5 seconds and will then be stored in memory.

### Step 2: Setting On/off times

- To program on and off times for lighting channels, press either Ch1 Time or Ch2 Time.
- Press **On Time**, ON1 or ON2 will flash.
- Press **HOUR** and **MINUTE** until the desired “on” time is shown.
- Press **Off Time**, OFF1 or OFF2 will flash.
- Press **HOUR** and **MINUTE** until the desired “off” time is shown.
- Allowing the programmed time to flash for 5 seconds at any stage will store programmed time in memory.

### Step 3: Setting Minimum and Maximum Intensity

- To program the intensity for each lighting channel, press either Ch1 Time or Ch2 Time.
- Press **Min Intensity** CH1L or CH2L will flash.
- Press **HOUR** and **MINUTE** until the desired % minimum light intensity is shown (see page 3 for moon light recommendations.)
- Press **Max Intensity** CH2H or CH2H will flash.
- Press **HOUR** and **MINUTE** until the desired maximum lighting intensity time is shown.
- Allowing the programmed time to flash for 5 seconds at any stage will store programmed time in memory.
Programming Using the Controller Keypad

Press Enter on the controller keypad to cycle through all of the programmable settings. You can adjust the time or % settings at any time by pressing either or . Allowing the setting to flash for 5 seconds will store it in memory.

The entire program cycle includes in order (simply press to cycle through each setting):

Current time flashes - program time of day
ON1 - programs on time for channel 1
OFF1 - programs off time for channel 1
CH1H - programs maximum light intensity for channel 1 from 0-100%
CH1L - programs minimum light intensity for channel 1 from 0-100%
ON2 - programs on time for channel 2
OFF2 - programs off time for channel 2
CH2H - programs maximum light intensity for channel 2 from 0-100%
CH2L - programs minimum light intensity for channel 2 from 0-100%

You can program any setting by simply cycling through the other settings until the mode you would like to program is reached.

For example:

Setting the clock

• Press Enter the current programmed time of day will flash.
• Press to change the hour, press to change the minutes until the current time is displayed.
• Time will flash for 5 seconds and will then be stored in memory.

Setting the “ON” time for channel 2

• Press Enter 6 times until ON2 flashes .
• Press until the on hour time is reach, press until the minute on time is reached.
• Allow the time to flash for 5 seconds, on time for channel 2 is now stored in memory.

Manual Color Adjustment

The color spectrum of either channel can be adjusted manually at any time simply by pressing the arrows on the right side of the remote. Pressing the blue keys increases/decreases the blue spectrum lights, pressing the white keys increases/decreases the white spectrum lights.

To go back into the timers programmed light schedule, simply press RESUME .

Moonlighting

The minimum intensity setting is ideal for programming an all-nite moon light. You can use either your blue channel (or white channel) and set the minimum intensity between 5%-10% to mimic a soft moon light. If you don’t want any moonlight, simply program each channels minimum intensity setting to 0%.

Recommended Lighting Schedules

Here are a few example lighting schedules we recommend for aquariums:

<table>
<thead>
<tr>
<th>10 Hour Full Intensity with 5% Blue Moonlight</th>
<th>12 Hour Full Intensity with 5% White Moonlight</th>
<th>14 Hour 85% Intensity with 7% Blue Moonlight</th>
<th>12 Hour 90% Intensity with 10% Blue Moonlight</th>
<th>10 Hour 75% Intensity with no Moonlight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON1: 07:00</td>
<td>ON1: 06:00</td>
<td>ON1: 06:00</td>
<td>ON1: 07:00</td>
<td>ON1: 08:00</td>
</tr>
<tr>
<td>OFF1: 17:00</td>
<td>OFF1: 18:00</td>
<td>OFF1: 20:00</td>
<td>OFF1: 19:00</td>
<td>OFF1: 18:00</td>
</tr>
<tr>
<td>ON2: 08:00</td>
<td>ON2: 07:00</td>
<td>ON2: 07:00</td>
<td>ON2: 08:00</td>
<td>ON2: 09:00</td>
</tr>
<tr>
<td>OFF2: 16:00</td>
<td>OFF2: 17:00</td>
<td>OFF2: 19:00</td>
<td>OFF2: 18:00</td>
<td>OFF2: 17:00</td>
</tr>
<tr>
<td>CH1H: 100%</td>
<td>CH1H: 100%</td>
<td>CH1H: 85%</td>
<td>CH1H: 90%</td>
<td>CH1H: 75%</td>
</tr>
<tr>
<td>CH1L: 5%</td>
<td>CH1L: 0%</td>
<td>CH1L: 7%</td>
<td>CH1L: 10%</td>
<td>CH1L: 0%</td>
</tr>
<tr>
<td>CH2H: 100%</td>
<td>CH2H: 100%</td>
<td>CH2H: 85%</td>
<td>CH2H: 90%</td>
<td>CH2H: 75%</td>
</tr>
<tr>
<td>CH2L: 0%</td>
<td>CH2L: 5%</td>
<td>CH2L: 0%</td>
<td>CH2L: 0%</td>
<td>CH2L: 0%</td>
</tr>
</tbody>
</table>
**Current-USA LED and Fixture Compatibility**

- TrueLumen Pro LED Strips and Striplight Kits (#3001 thru #3033, #3100 thru #3107)
- TrueLumen LED Padlight (#1694)
- TrueLumen LED Strips and Lunar LED Lights (#1660 thru #1635, #1664 & #1666)
- Satellite LED and LED+ Flexible Strips (#4004 & #4009)
- Orbit Marine LED Fixtures (#4100 thru #4103)
- Satellite LED and LED+ Fixtures (#4000 thru #4008)
- Most 12-24VDC LED fixtures not exceeding 120 watts (24V) with a compatible DC barrel jack connector

**IMPORTANT WARNINGS | SAVE THESE INSTRUCTIONS**

This is NOT a page of legalese. It contains important safety information that you should read and save for future reference. Remember you can always quickly access instructions for all our products at www.current-usa.com.

- Never attempt repairs yourself; return the appliance to an authorized service facility for service or discard the appliance.
- Carefully examine the fixture after installation and BEFORE you plug it into the GFCI wall outlet. Be sure there is no water on any part of the light fixture or the timer.
- Never plug in a wet cord. If a plugged in unit or socket does get wet, DON'T touch it. Instead, promptly disconnect the fuse or circuit breaker that supplies power to the fixture. Then, you may unplug the fixture and examine for the presence of water.
- Never operate a fixture that is damaged or malfunctioning; discontinue use immediately and return the appliance to an authorized service facility.
- Close supervision is necessary when any appliance is used by or near children.
- Always unplug the fixture when not in use, before putting on or taking off parts, and before cleaning. Never pull the cord to unplug from the GFCI.
- Do not use the fixture for anything other than intended use. The use of attachments not recommended or sold by the fixture manufacturer may cause an unsafe condition and will void your warranty.
- Do not install or store the fixture where it will be exposed to the weather or to temperatures below 0° Celsius or 32° Fahrenheit.
- Do not operate at temperatures above 50° Celsius or 122° Fahrenheit.
- Ensure the fixture is securely installed before supplying power to the unit.
- Read and observe all the important notices and warnings on the fixture and power cord. **DO NOT REMOVE THE WARNING LABEL.**
- If an extension cord is necessary, a cord with a rating at least 15 amperes should be used. A cord rated for less amperes or watts than the fixture rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
- Do not look directly into the LEDs.

**Important Warnings | Drip Loops**

Drip Loops should always be used to help prevent water from traveling along the cord and coming into contact with an electrical outlet. Drip loops must always be below the level of the outlet. If the plug or outlet does get wet, DO NOT TOUCH the cord. Disconnect the fuse or circuit breaker that supplies power to the system. After disconnecting the power, unplug and examine for the presence of water.

**Grounding Instructions**

This LED timer must be powered with an ETL or UL Listed Transformer. To avoid possible electric shock, this transformer must be plugged into a GFCI wall outlet that is installed and grounded in accordance with all appropriate codes and ordinances.

For more information and to register your product, please visit www.current-usa.com