Quick Installation Guide

What's included:
1 - Orbit Marine LED light fixture with dual actinic/dual daylight LEDs with adjustable docking legs
1 - 12VDC transformer
1 - Ramp Timer Pro LED controller
1 - Wireless IR remote

Installing the Orbit Marine
1. Unpack light fixture and components, remove any plastic film on light fixture.
2. Slide the adjustable docking legs on the side of the fixture to match the length of your aquarium.
3. Set fixture on aquarium and connect to the Ramp Timer Pro (included) as per instructions below.

Connecting the Ramp Timer Pro to the Orbit Marine
1. Connect your 12VDC transformer to the female DC plug on the timer, plug transformer into GFCI protected AC outlet. Ensure a drip loop is created before the outlet as shown on page 6.
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.
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 Ramp Timer Pro to mounting location.
6. Press SET CLOCK.
7. Press HOUR and MINUTE until the current time of day is displayed
8. Press ENTER clock is now set
9. Press TIMER M1 or TIMER M3. Pre-programmed lighting schedule is complete.**

** See following page for pre-programmed lighting schedules.

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

Please read the following guides before following the detailed programming instructions located on page 4.

Programming Feature Guide

The Ramp Timer Pro features two independent lighting channels with the following:
- Program on/off times for each channel
- Adjustable intensity (0-100%) for each channel
- Adjustable ramp up (sunrise) / dim down (sunset) (0-30 minutes)
- Adjustable moonlight duration (0-6 hours)
- On-demand color spectrum adjustment
- On-demand weather simulation including cloud cover, fading moonlight and storm with lightning
- Four memory locations for storing custom lighting schedules each are pre-programmed by default, see below.

Pre-programmed Lighting Schedule Guide

The Ramp Timer Pro features four pre-programmed lighting schedules. These schedules are located in memory buttons labeled TIMER M1, TIMER M2, TIMER M3, TIMER M4. To customize any of the settings, please follow the detailed Programming Instructions located on Page 4.

Using the graph and table below, select from any one of the pre-programmed lighting schedules. Once you select a lighting program, simply press TIMER M1, TIMER M2, TIMER M3 or TIMER M4 and the controller will automatically enter into the selected lighting schedule.

<table>
<thead>
<tr>
<th>Button</th>
<th>Lighting Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIMER M1</td>
<td>10 hours full intensity, 15 minute sunrise/sunset, with 4 hours of 10% blue moonlight. This is a great lighting schedule for most aquariums.</td>
</tr>
<tr>
<td>TIMER M2</td>
<td>7 hours of low/medium intensity lighting, 30 minute sunrise/sunset, with no moonlight. A perfect coral acclimation program. Run this a few days when adding new corals to your tank.</td>
</tr>
<tr>
<td>TIMER M3</td>
<td>12 hours full intensity, 15 minute sunrise/sunset, with 4 hours of 10% blue moonlight. A longer lighting schedule for power growers.</td>
</tr>
<tr>
<td>TIMER M4</td>
<td>7 hours of medium/high intensity lighting, 30 minute sunrise/sunset, with no moonlight. Great for fish and coral acclimation. Run a couple days when adding new fish, invertebrates or corals.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Light Program</th>
<th>M1 10 Hour Full Intensity</th>
<th>M2 Coral Acclimation</th>
<th>M3 12 Hour Full Intensity</th>
<th>M4 Coral Acclimation</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH1 Blue</td>
<td>8:00 am</td>
<td>8:00 am</td>
<td>8:00 am</td>
<td>8:00 am</td>
</tr>
<tr>
<td>CH2 White</td>
<td>8:15 am</td>
<td>8:30 am</td>
<td>8:30 am</td>
<td>8:30 am</td>
</tr>
<tr>
<td>M2 Blue</td>
<td>8:00 am</td>
<td>8:00 am</td>
<td>8:00 am</td>
<td>8:00 am</td>
</tr>
<tr>
<td>CH2 White</td>
<td>8:30 am</td>
<td>8:30 am</td>
<td>8:30 am</td>
<td>8:30 am</td>
</tr>
<tr>
<td>M3 Blue</td>
<td>8:00 am</td>
<td>8:00 am</td>
<td>8:00 am</td>
<td>8:00 am</td>
</tr>
<tr>
<td>CH2 White</td>
<td>8:30 am</td>
<td>8:30 am</td>
<td>8:30 am</td>
<td>8:30 am</td>
</tr>
<tr>
<td>M4 Blue</td>
<td>8:00 am</td>
<td>8:00 am</td>
<td>8:00 am</td>
<td>8:00 am</td>
</tr>
<tr>
<td>CH2 White</td>
<td>8:30 am</td>
<td>8:30 am</td>
<td>8:30 am</td>
<td>8:30 am</td>
</tr>
<tr>
<td>Minimum Intensity</td>
<td>10%</td>
<td>0%</td>
<td>10%</td>
<td>0%</td>
</tr>
<tr>
<td>CH1 Blue</td>
<td>15 min</td>
<td>30 min</td>
<td>15 min</td>
<td>30 min</td>
</tr>
<tr>
<td>CH2 White</td>
<td>15 min</td>
<td>30 min</td>
<td>15 min</td>
<td>30 min</td>
</tr>
<tr>
<td>M2 Blue</td>
<td>10%</td>
<td>10%</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>CH2 White</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>M3 Blue</td>
<td>60%</td>
<td>60%</td>
<td>60%</td>
<td>60%</td>
</tr>
<tr>
<td>CH2 White</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>M4 Blue</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>CH2 White</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Maximum Intensity</td>
<td>4 hours</td>
<td>4 hours</td>
<td>4 hours</td>
<td>4 hours</td>
</tr>
<tr>
<td>CH1 Blue</td>
<td>0 hours</td>
<td>0 hours</td>
<td>0 hours</td>
<td>0 hours</td>
</tr>
<tr>
<td>CH2 White</td>
<td>0 hours</td>
<td>0 hours</td>
<td>0 hours</td>
<td>0 hours</td>
</tr>
<tr>
<td>Moonlight Duration</td>
<td>0 hours</td>
<td>0 hours</td>
<td>0 hours</td>
<td>0 hours</td>
</tr>
<tr>
<td>CH1 Blue</td>
<td>0 hours</td>
<td>0 hours</td>
<td>0 hours</td>
<td>0 hours</td>
</tr>
<tr>
<td>CH2 White</td>
<td>0 hours</td>
<td>0 hours</td>
<td>0 hours</td>
<td>0 hours</td>
</tr>
</tbody>
</table>
When using your wireless remote, point the remote directly at the IR sensor located on the Ramp Timer Pro. It is important to have a direct line of sight between the remote and the controller.

Digital LCD Display Guide

Ramp Timer Pro LCD Display
The backlit LCD display features the indicators pictured to the right. The indicators are shown on the display when you are using the remote in one of the programming modes listed above.
The following detailed steps will guide you through customizing and programming your Ramp Timer Pro. Please be sure to follow our Quick Installation Guide and set the clock before following the below steps.

### Programming Individual Lighting Channels

The Ramp Timer Pro features two channels of lighting which can be independently controlled. Channel 1/Line 1 should be connected to your blue spectrum lights for dawn/dusk/actinic/moon lighting; Channel 2/Line 2 should be connected to your white spectrum lights for daylight.

The following diagram is a simple flow chart showing the programming steps available for each lighting channel.

- **ON TIME** - Determines what time your lights will begin to turn on
- **OFF TIME** - Determines what time your lights will begin to turn off
- **SUNRISE/SUNSET FADE** - The duration of the ramp up and dim down (0-30 minutes)
- **MOONLIGHT** - The duration of the moon light schedule (0-6 hours)
- **MAXIMUM INTENSITY** - The maximum brightness (0-100%)
- **MINIMUM INTENSITY** - The minimum brightness (0-100%)

**Please note:** each programming step can be completed independent of the others by simply pressing CH1 or CH2 followed by the program, adjusting the setting with HOUR+ and/or MINUTE-, then ENTER.

For example, to change the duration of sunrise and sunset duration for channel 2, simply:
- Press CH2
- Press SUNRISE SUNSET
- Adjust duration by pressing +
- Press ENTER

### Before Programming

The Ramp Timer Pro features four pre-programmed lighting schedules located in memory buttons Timer M1, M2, M3, M4. Schedules can be reviewed on page 2. We highly suggest choosing one of these programs for a lighting schedule or adjusting your settings from one of them manually. To choose one, press Timer M1, M2, M3 or M4 and SL-1, SL-2, SL-3 or SL-4 will flash on the LCD. Adjust any the programmed settings using the below steps, then press the same memory button for 5 seconds (Timer M1, M2, M3 or M4). SL-1, SL-2, SL-3 or SL-4 will flash and any changes are now saved into the memory. To reset the memory settings to the factory default, press DEFAULT for 5 seconds (see pg. 5).

This will reset the controller memory for all four memory settings.

### Set On/Off Times

- **To program Channel 1 or 2, press CH1 or CH2.**
- Press ON TIME; ON1 or ON2 will quickly flash and the display indicator will blink "ON TIME". Press HOUR and MINUTE until the desired on time is displayed.
- Press OFF TIME; OFF1 or OFF2 will quickly flash and the display indicator will blink "OFF TIME." Press HOUR and MINUTE until the desired off time is displayed.
- Press ENTER

### Program Channel Sunrise/Sunset Suration

- **To program Channel 1 or 2, press CH1 or CH2.**
- Press SUNRISE SUNSET; FADE will quickly flash and the display indicator will blink both SUNRISE and SUNSET. F will display with the number of minutes currently programmed for the gradual ramp and dim. The number of minutes can be changed using the HOUR+ and MINUTE-. The gradual ramp/dim is adjustable from 0-30 minutes.
- Press ENTER

### Program Moonlight Duration

- **To program moonlights on Channel 1 or 2, press CH1 or CH2.**
- Press MOONLIGHT; N1 or N2 quickly flashes and the display indicator will blink MOONLIGHT. Adjust the duration of your moon light setting from 0 to 6 hours using the HOUR+ and MINUTE-. Complete programming by pressing ENTER.

**Note:** The moonlight intensity is programmed by using your minimum intensity setting for each channel. The moon light mode is designed to replicate natural moonlight, so it is only programmable for a 0-6 hour duration.
Programming Light Channels continued

Find the Minimum And Maximum Intensity Of Color Spectrums

Before setting your minimum and maximum lighting levels for each channel, we highly recommend utilizing the Manual Color Spectrum Mode key (M1) located at the top of the remote. This button allows you to manually adjust the lighting intensity for each channel on-demand, and will display the intensity from 0-100% on the LCD. Minimum intensity = moonlight spectrum, maximum intensity = daylight spectrum.

To adjust:
- Press M1 (M1)
- P-01 will display on LCD
- Press Blue arrows up or down to manually adjust Channel 1
- Press White arrows up or down to manually adjust Channel 2
- Adjust the colors until your desired brightness and color spectrum are achieved.
- The intensity % can be used as a reference when programming your minimum and maximum settings.

Setting Minimum And Maximum Intensity Of Each Channel

- Press CH1 or CH2

- Press MAX INTENSITY; b1H or b2H quickly flashes and the display indicator will blink MAXIMUM. Adjust the maximum light intensity for channel using the HOUR+ and MINUTE-. Intensity can be adjusted from 0-100%.
- Press MIN INTENSITY; b1L or b2L quickly flashes and the display indicator will blink MINIMUM. Adjust the minimum light intensity for channel using the HOUR+ and MINUTE-. Intensity can be adjusted from 0-100%.
When your lights ramp down, they will reach your minimum lighting level and run per the programmed moonlight duration time (0-6 hours.)

- Press Enter Settings are now complete.

Memory Functions

The Ramp Timer Pro features five memory locations:

Main Color Spectrum (M1)

This memory location stores color spectrum only. Pressing M1 (M1) allows you to use the blue and white manual adjustment arrows to find color spectrums you like. The intensity of each channel is displayed on the LCD as the arrow buttons are pushed. You can use this as a reference or simply exit the program by pressing the RESUME key. Your last color settings will be saved in the M1 memory and can be changed at any time.

Customizing the Pre-Programmed Lighting Schedules

These four memory locations store complete 24 hour lighting schedules. To make things easy, we have pre-programmed all four memory locations, providing two lighting schedules and two coral acclimation modes. Please review each of the pre-programmed schedules on page 2.

Each pre-programmed timer schedule can be customized at any time by simply:
- Press TIMER M1, TIMER M2, TIMER M3, or TIMER M4. SL-1, SL-2, SL-3 or SL-4 will display on the screen.
- Adjust any of the channel settings by following the steps.
- When programming changes are complete, press the same memory key again and hold for 5 seconds. SF-1, SF-2, SF-3 or SF-4 will appear on the LCD display, indicating the changes have been saved successfully.

Reset to factory default settings:
To reset the controller memory schedules back to the factory defaults, simply press DEFAULT SETTINGS and hold for 5 seconds. This will reset the controller memory for all four memory settings.

Step 4: Dynamic Lighting Modes

Four dynamic fade modes are available on-demand using the wireless remote. These modes mimic common weather patterns found in nature and add amazing lighting effects to your aquarium. To use, simply:

- Point the wireless remote to your controller and press one of the four dynamic modes:
  Partly Cloudy (P-02 will display)
  Very Cloudy (P-03 will display)
  Fading Moonlight (P-04 will display)
  Storm with lightning (P-05 will display)

- When your weather pattern is complete, simply press RESUME and the controller will go back to your last programmed time mode. Note: If your controller is left on a dynamic mode (maybe to help you fall asleep), it will remain in this mode until you press RESUME.
**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.

**Current USA, Inc. One-Year Limited Warranty**

Current USA, Inc. warrants this product against defects in materials and workmanship of a period of ONE (1) YEAR from the date of original retail purchase and is not transferable.

Warranty on all Products, including Aquariums, is limited to replacement of the product and does not cover fish loss, personal injury, property loss or direct, incidental or consequential damage arising from the use of this product.

Note: Current-USA, Inc. One-Year Limited Warranty does not cover damage caused by the following: improper installation, saltwater corrosion, electrical surges, or modifications.

If you discover a defect, please see your retail store or point of purchase. Current USA, Inc. will, at its option, repair or replace the product at no charge to you, provided you return it during the warranty period. A copy of the bill of sale is required as proof of original purchase date in the event the product needs repairs within the warranty period. Please see your dealer for return options and warranty replacement parts. This warranty applies only to products by or for Current USA, Inc. that can be identified by trade name, or logo affixed to them. Current-USA, Inc. does not warrant any products that are not Current-USA, Inc.

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**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