



# Orbit Marine LED Light

## with 24 hour Ramp Timer Pro LED Controller

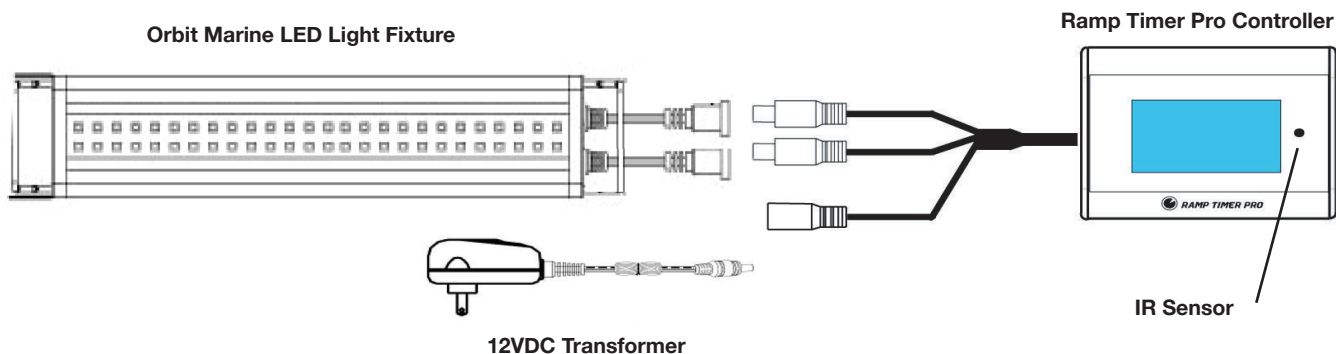
### Quick Installation Guide

#### 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.

### Button Lighting Schedule



10 hours full intensity, 15 minute sunrise/sunset, with 4 hours of 10% blue moonlight.  
This is a great lighting schedule for most aquariums.



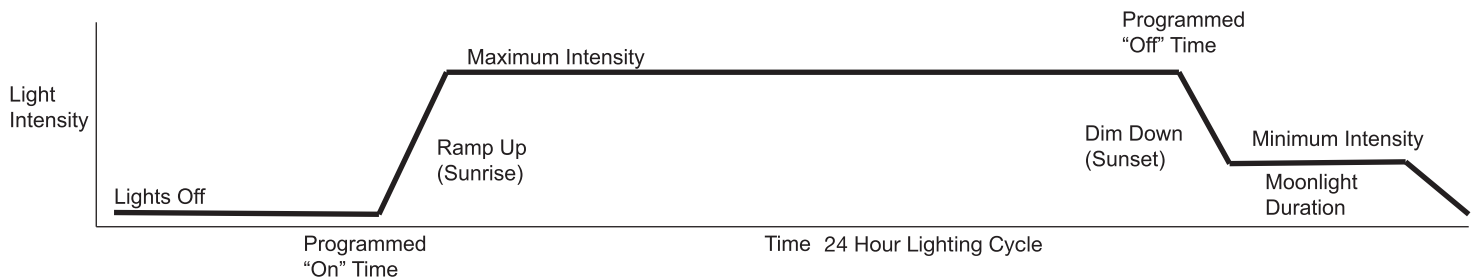
7 hours of low/medium intensity lighting, 30 minute sunrise/sunset, with no moonlight.  
A perfect coral acclimation program. Run this a few days when adding new corals to your tank.







12 hours full intensity, 15 minute sunrise/sunset, with 4 hours of 10% blue moonlight.  
A longer lighting schedule for power growers.



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.



Light Program	M1 10 Hour Full Intensity 		M2 Coral Acclimation 		M3 12 Hour Full Intensity 		M4 Coral Acclimation 	
	CH1 Blue	CH2 White	CH1 Blue	CH2 White	CH1 Blue	CH2 White	CH1 Blue	CH2 White
On Time	8:00 am	8:15 am	8:00 am	8:30 am	8:00 am	8:30 am	8:00 am	8:30 am
Off Time	6:00 pm	6:15 pm	4:00 pm	3:00 pm	8:00 pm	7:30 pm	4:00 pm	3:00 pm
Sunrise/Sunset Fade	15 min	15 min	30 min	30 min	15 min	15 min	30 min	30 min
Minimum Intensity	10%	0%	0%	0%	10%	0%	0%	0%
Maximum Intensity	100%	100%	60%	60%	100%	100%	80%	80%
Moonlight Duration	4 hours	0	0	0	4 hours	0	0	0



## Wireless Infrared IR Remote Guide



**Main on/off**  
Manually turns lights on/off



**Manual color spectrum mode**  
Allows you to select a color spectrum/brightness to memory



**Factory Default settings**  
Resets the four memory settings to factory default



**Resume programming**  
Exits a dynamic mode and resumes timer lighting schedule



**Sets 24hr. clock**  
Used for setting the current time of day



**Main adjustment**  
Used for setting hour, minutes or +/- settings



**Enter**  
Stores setting in memory



**Controls line 1**  
Used for programming channel 1 (usually blue)



**Program on/off**  
Used for programming on/off for each channel



**Dawn/dusk**  
Used to program ramp and dim



**Controls line 2**  
Used for programming channel 2 (usually white)



**Intensity adjust**  
Used for setting the min/max intensity for each channel



**Moonlight**  
Used to program lunar light duration



### Manual color adjustment

Provides manual adjustment of each channel. Blue buttons adjust line 1 (blue), white buttons adjust line 2 (daylight)



### Memory

Used for storing lighting schedules in memory. See page 2 to review pre-installed lighting schedules



### Dynamic lighting modes

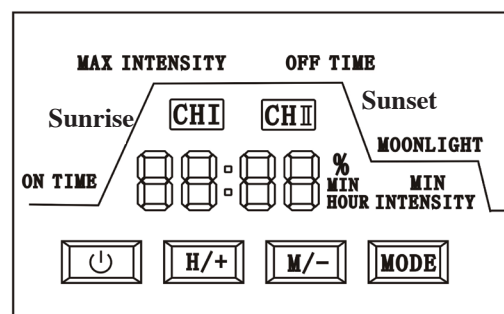
Provides on-demand weather effects. Two cloud cover modes, fading moonlight and storm with lightning

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.



# Detailed Programming Instructions

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

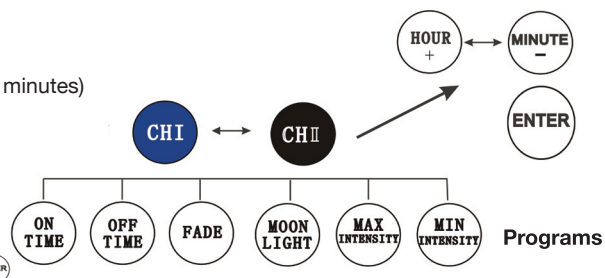
**SUNRISE/SUNSET FADE** - The duration of the ramp up and dim down (0-30 minutes)

**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 Duration

• 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** (CH1) or **CH2** (CH2)
- Press **MAX INTENSITY** (MAX INTENSITY); b1H or b2H quickly flashes and the display indicator will blink MAXIMUM. Adjust the maximum light intensity for channel using the **HOUR+** (HOUR+) and **MINUTE-** (MINUTE-). Intensity can be adjusted from 0-100%.
- Press **MIN INTENSITY** (MIN INTENSITY); b1L or b2L quickly flashes and the display indicator will blink MINIMUM. Adjust the minimum light intensity for channel using the **HOUR+** (HOUR+) and **MINUTE-** (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** (ENTER). Settings are now complete.

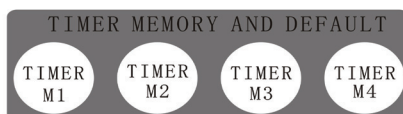
## Memory Functions

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** (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** (Default) 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** (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** (RESUME).



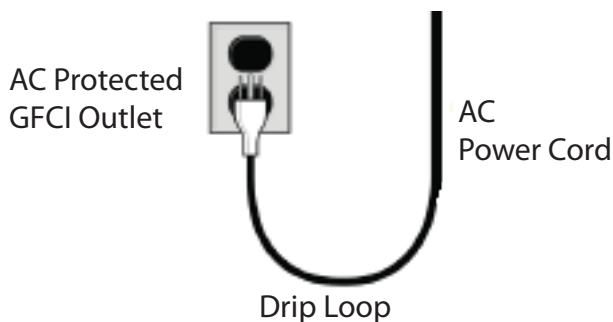
## IMPORTANT WARNINGS | SAVE THESE INSTRUCTIONS

**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](http://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.



## 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..

This warranty does not apply if the product has been damaged by accident, abuse, misuse or misapplication or if the product has been modified without the written permission of Current-USA, Inc.; or if any Current-USA, Inc. logos have been removed or defaced.

THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS, WHETHER ORAL OR WRITTEN, EXPRESSED OR IMPLIED. CURRENT USA, INC. SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO LOST PROFITS, DOWNTIME, GOODWILL, DAMAGE TO OR REPLACEMENT OF EQUIPMENT AND PROPERTY, AND ANY COSTS OF RECOVERING ANIMALS, PLANTS, TANKS OR OTHER AQUARIUM RELATED ITEMS AND/OR EQUIPMENT. CURRENT USA, INC. IS NOT RESPONSIBLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY, OR REPLACEMENT OF EQUIPMENT OR PROPERTY, OR ANY COSTS OF RECOVERING OR REPRODUCING ANY EQUIPMENT, ANIMALS OR PLANTS USED OR GROWN WITH CURRENT USA, INC. PRODUCTS. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or exclusions of implied warranties, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from jurisdiction to jurisdiction.

### 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](http://www.current-usa.com)