Controller

Controller Compatibility ₹ • ÷ *Wireless adapter required. (Sold seperately)

What's in the Box

• Mini USB (use for firmware

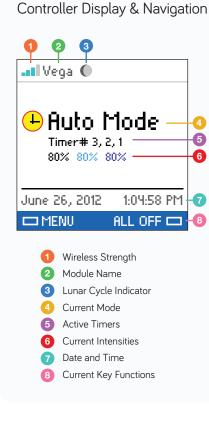
• 3.5 mm cable (use to connect

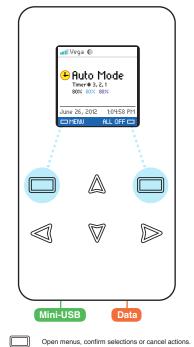
Controller

updates)

to module)

Power supply





back and forth from red to green **LED Indicator** Wireless Module

To connect a Sol or Nano module with the wireless adapter, press the reset button using a paperclip or other object for approximately seven seconds to change the light from green to red.

Set the Wireless

Connection

To connect the Controller with a Vega module,

make sure the LED on the side of the Vega

Press and hold the red button for approxi-

mately seven seconds. The light will alternate

(next to power supply plug in) is red.

To complete the wireless setup for the Vega:

- 1. From the Home screen, press
- 2. Scroll down to the Setup Lights menu option and press SELECT.
- 3. Select Vega as the model and wireless as the connection.
- 4. Press OK. The Wireless Setup window displays and the device searches for lights. A progress bar indicates the status.
- 5. A message displays, indicating whether lights are detected. If all lights are found, press OK.
 - If you have multiple modules connected, you need to indicate what order the lights are in above the tank (on the next screen that displays). The lights are counted from the left. A module in the middle needs to be set as Left +1.

Continue this process for all discovered lights and press

6. Return to the Home screen to see the signal strength of your wireless connection

Change the Wireless Options

This menu is grayed out/unavailable before you establish the wireless connection. You can set the sweep direction to uniform, left-to-right or right-to-left. You can set the sweep speed to auto, or anywhere from 1-10.

Set the Wired Connection

- 1. From the Home screen, press MENU.
- Scroll down to the Setup Lights menu option and press SELECT.
- 3. Select Sol Blue, Sol White or Nano as the model and Wired as the connection.
- 4. Press OK.



Timer Setup (Easy)

If you need a simple day and night ramp or you are just starting out with the timers, this is the recommended option for setting up timers. The easy setup creates six individual timers in the manual setup screen. The method behind the sunrise/sunset ramp up method is to begin with the least intensity and "ramp

up" throughout the day. Then, the colors "ramp down" in the reverse order during sunset to the lowest intensity again.

- 1. From the Home screen, press 2. Press SELECT to open the Timer
- Setup (Easy) menu option. 3. Set the hour/minute/AM/PM for the sunrise and sunset and the hour/
- minute for ramp time 4. Press OK. The Color Settings window displays
- Confirm or change the maximum and nite percentage values for each LED color. NOTE: The LED colors differ depending on the Al module you have connected to the controller
- 6. Press OK. You return to the main menu
- 7. After you confirm your settings in the Timer Setup (Easy) menu option, scroll down to the Timer Setup

(Manual) option. You will see the six individual timers you created in the easy setup mode.

Timer Setup (Manual)

You can individually set values for each timer using the Timer Setup (Manual) menu option after completing the Timer Setup (Easy) settings or you can move directly to the manual setup mode.

If you used the easy setup mode, you will see six individual timers generated from your settings. There are additional timers available, but you will notice that they are grayed out until you select them and set values. You can turn all timers on or off and you can modify them with your specific preferences. You can also add more timers, up to 30 total.

1. From the Home screen, press

- 2. Scroll down to the Timer Setup (Manual) menu option and press
- 3. For active timers, select your desired settings for time, color, level and ramp time. For inactive timers, use the right or left arrow to select Yes, and then change the settings.
- 4. Press OK. The main menu displays your real-time light settings.



Weather Effects

Weather effects are disabled by default and it is up to you if you want to enable them. You can set several weather effects to mimic a natural habitat, which benefits your entire lighting system.

1. From the Home screen, press

2. Scroll down to the Weather Effects menu option and press SELECT.

Modify selections.

Move through menu options.

3. Enable the weather effects, then select your desired settings for chances, # per day, coverage, lightning and limit to.



\(\dagger_{\pi} \) Lunar Cycle

By default, the lunar cycle is disabled. Enable the lunar cycle function to decrease the intensity of the lights based on the current cycle of the moon. The lunar cycle approximates the eight phases of the moon throughout a month's time.

For the lunar cycle to work correctly, the date and time need to be correct. You should set your night-time intensity to what you want a full moon to look like.

1. From the Home screen, press

- 2. Scroll down to the Lunar Cycle menu option and press SELECT.
- 3. Select Yes to enable the lunar
- 4. Select the start and end times for the lunar cycle.
- Press OK.
- Return to the Home screen. When the lunar cycle is active during the start and end time you selected, the moon icon displays on the Home screen.

Test Run

The New Controller is equipped with two light test functions. At any time, you can complete a test run to cycle through your 24-hour settings in two minutes. Use this function to quickly see if your settings function as you expected.

1. From the Home screen, press

- 2. Scroll down to the Test Run menu option and press SELECT. The controller runs through the 24-cycle of your timers in 2 minutes.
- 3. If the controller settings do not function as you expected, change your settings as needed.
- 4. Press OK.

Test Lights

You can test each individual color of LED and you can turn single colors on or off. This is helpful if you need to run module diagnostics.

- From the Home screen, press MFNU
- 2. Scroll down to the More menu option and press SELECT.
- 3. Press SELECT to open the Test Lights menu option.
- 4. Change the color using the left or

or previous color using the up or down arrow key.

right arrow key. Move to the next

Press OK.

Screen Saver

You can enable the screen saver and set the length of inactive time before the screen saver displays. You can set it from 1-30 minutes

- 1. From the Home screen, press
- 2. Scroll down to the More menu option and press SELECT.
- Scroll down to the Screen Saver menu option and press SELECT.
- Enable the screen saver.
- Select the length of inactive time before the controller goes into screen saver mode.
- Press OK.

increments and select start and end dates for the acclimation period.

- Scroll down to the More menu.
- and end date.
- 6. Your settings are reduced by the midnight on the end date.

Switch Modes

Use this menu option to switch back and forth between Auto and Manual modes. When you switch the controller to manual mode, the menu options change.

To switch from Auto to Manual mode:

- From the Home screen, press
- 2. Scroll down More menu option and 3. Scroll down to the Switch Modes
- menu option and press SELECT. A pop-up message asks if you want to switch to Manual mode.
- Press OK.
- 5. The menu options reconfigure to display only the relevant options for operating the controller manually.

To switch from manual to auto mode:

1. From the Home screen, press

- 2. Scroll down to the Switch Modes menu option and press SELECT. A pop-up message asks if you want to switch to auto mode.
- Press OK.
- 4. The menu options reconfigure to display only the relevant options for auto configuration. Your original settings for auto mode remain

Set the Clock

The clock must be set to the correct time and date for settings such as the lunar cycle to work properly.

- 1. From the Home screen, press MENU.
- 2. Scroll down to the More menu option and press SELECT.
- 3. Scroll down to the Set Clock menu option and press SELECT.

- 4. Set the correct hour, minutes, seconds and select AM or PM.
- 5. Set the correct month, day and
- 6. Set the Auto DST menu option to Yes if you want the controller to automatically adjust for daylight savings time or No if you do not want that setting.
- 7. Press OK.

Key Sensitivity

The key sensitivity is automatically set to 03 on the New Controller. To make the keys less sensitive, requiring more pressure/a harder press when you push a key, set the key sensitivity to a higher number. To adjust the keys so they are more sensitive, requiring less pressure when you press a key, select a lower number.

- From the Home screen, press MENU.
- 2. Scroll down to the More menu option and press SELECT. 3. Scroll down to the Key Sensitivity
- menu option and press SELECT. Select a key sensitivity setting from 1-10.
- 5. Press OK

Firmware Update

When your controller is connected to a module, you are prompted whenever a firmware update is available and you need to update your software. When your controller is not connected, you can visit the support website to see when the latest firmware updates are available.

For best performance, make sure the controller is located near your lights to prevent signal interruption

during firmware updates.

Factory Reset

- 1. From the Home screen, press
- 2. Scroll down to the More menu option and press SELECT.
- 3. Scroll down to the Factory Reset menu option and press SELECT. A warning message displays to remind you that all of your custom settings for timers and effects will be erased if you proceed.
- Press OK.

Videos

For videos on use and

to visit our YouTube™

setup scan the QR code

5. The controller restarts. The Setup Lights menu option displays so that you can customize your settings.

FCC Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation. Any changes or modifications not expressly approved by C2 Development Inc. could void the user's authority to operate the wireless radio module, and/or the product that incorporates the wire-

Declaration of Conformity

We, the undersigned,

certify and declare under our sole responsibility that the following

Product description / Intended use	Wireless lighting controller
EU / EFTA member states intended for use	EU: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Lat- via, Lithuania, Luxembourg, Malta, The Netherlands, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, United Kingdom EFTA: Switzerland, Iceland, Lichtenstein, Norway
Manufacturer	C2 Development, Inc.
Brand	Aqualllumination (AI)
Type (Model reference that will appear on product/ CE label)	Al Wireless Controller

s tested to and conforms with the essential requirements for protection of health and the safety of the user and any othe person and Electromagnetic Compatibility, as included in ollowing standards:

12
/

and is tested to and conforms with the essential radio test suites so that it effectively uses the frequency spectrum allocated to terrestrial/space radio communication and orbital resources so to as to avoid harmful interference, as included in following

ETSI EN 300 440-2 V1.4.1 (2101-08)	12/1/12
and therefore complies with the essential requirer provisions of the Directive 1999/5/EC of the Europment and of the council of March 9, 1999 on Radi	oean Parli o equipme

Issue date

recognition of their conformity and with the provisions of Annes
IV (Conformity Assessment procedure referred to in article 10) The technical documentation as required by the Conformit Assessment procedure is kept at the following address:

C2 Development, Inc. 127 S Bell Ave. mes, IA 50010 USA

Standard

TCF/TF reference nr.	C2 Development 2012304TCF
Drawn up in	Herndon, VA
Date	12/1/12
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Coral Acclimation By default, the coral acclimation setting

is disabled. Enable the coral acclimation setting to introduce new corals to light gradually to prevent burning or bleaching. Set the reduction factor using 10%

- 1. From the Home screen, press
- option and press SELECT 3. Scroll down to the Coral Acclimation menu option and press
- 4. Set the reduction factor, start date
- 5. Press OK.
- acclimation factor you selected The lower intensity continues until