

# Orphek Atlantik v3+

## Operations Manual

### Introduction

Thank You for choosing the Orphek Atlantik v Series light. Your Atlantik LED light system is designed to provide years of use and excellent growth and color that rivals metal halide. We invite you to learn everything you can about using and implementing a solid lighting schedule using your Atlantik to its fullest potential. This manual is designed to be your first and main source of information regarding the use and programming of the light.

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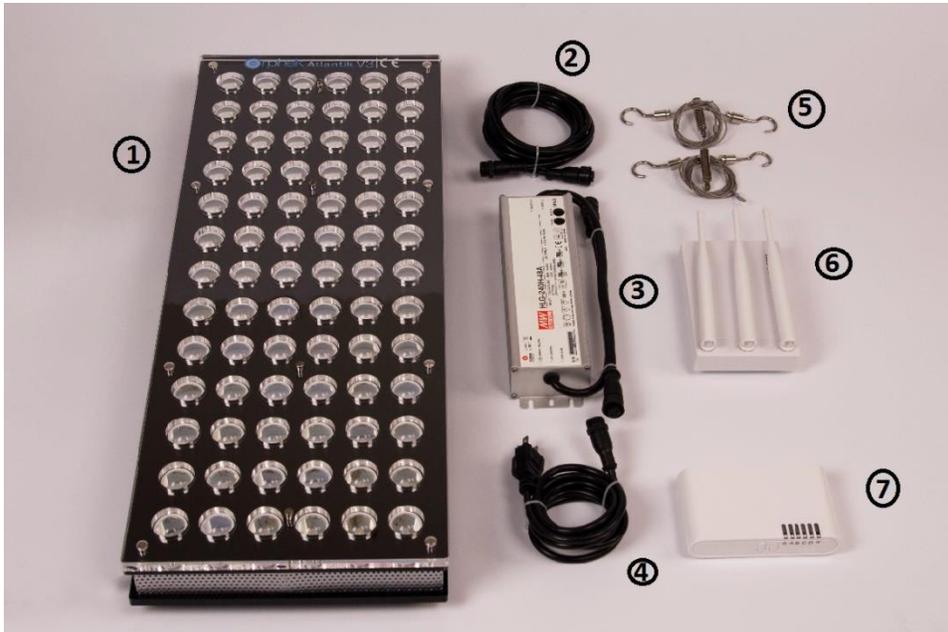
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## Section 1- Setup

### 1.1 Understanding the Components



1. Orphek Atlantik v3+ Array- included
2. 3m Extension Cable (Optional Accessory)
3. Meanwell Fanless IP65 Driver- included
4. Power Cord- included
5. Stainless Steel Hanging Kit- included
6. Orphek Router- (Optional Accessory)
7. Orphek Atlantik Gateway REQUIRED\*- (Optional Accessory)

\*- The Orphek Atlantik Gateway is a required device to link all of your Atlantik v3+ units to your home router and allow control via Wi-Fi. Only one Gateway is needed regardless of the number of Orphek products to be connected.

### 1.2 Understanding the Orphek Atlantik Gateway

The Orphek Atlantik Gateway is a device powered by the Internet of Things (IoT) technology that allows your Atlantik LED lighting systems to be easily accessible and controllable from any location in the world with internet access. It is designed to be a simple plug and play system that operates continuously. In order to control your Atlantik

LED system the Gateway device must be connected to an Ethernet port on your local router.

1. Screw the external antennae into the Orphek Atlantik Gateway.



2. Connect the Gateway to your router using a standard Ethernet cable.



3. Plug the power adaptor into the DC in port on the back of the Gateway.



4. Plug the power adaptor into your wall socket.
5. The LEDs on the front of the Gateway will light up.
6. When the Gateway is ready to use LED “A” lights up.

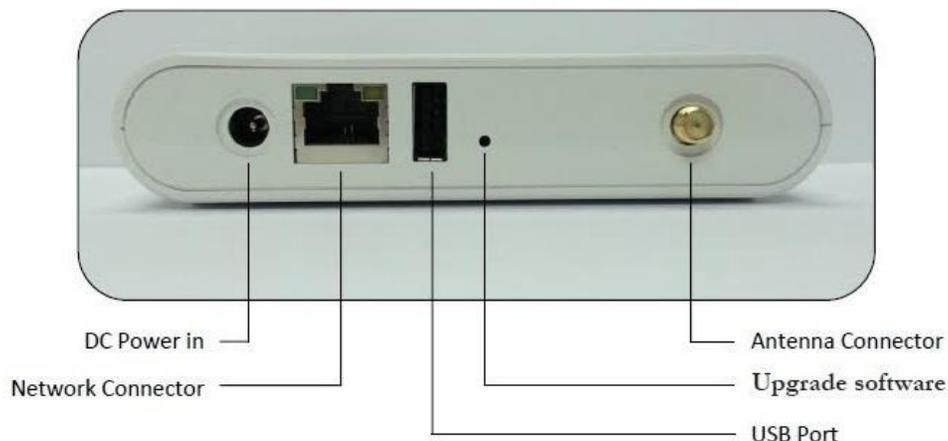
## Power Adaptor Options



The Universal power adaptor comes with four different plugs for different regions power supply requirements.

Use the desired plug for your region and connect it to the face of the power supply.

## Rear Side



DC Power in:	Use for DC adaptor connection in.
Network connector:	Connect this gateway to router through Network cable
Antenna Connector:	Use to connect the supplied external antenna.
USB port:	This USB port is reserved for further firmware update usage

## Specifications of Gateway

Model Number	SH-GWAYL20A
RF Interface	JenNet-IP Protocol
RF Output Power	+8dBm
Antenna	Dipole Antenna 1.5dBi Gain
Power Source	5Volts @ 1000mA
Ethernet	RJ45 10/100Mbps
USB	USB2.0 or compatible
Operating Temperature	-20 to 70C
Humidity	95% TH Non-condensing
Net Weight	110g

### Updating the Gateway-

Should the need arise in the future; your Atlantik Gateway can be updated with new firmware. This is not necessary for units shipping to you initially.

1. Download the upgrade software to a standard USP flash drive. (Update notices will be posted on the Orphek.com website)
2. Power the Gateway off by unplugging the power cable.
3. Plug your USB flash drive into the USP port on the back of the Gateway.
4. Using a non-metallic object such as a toothpick, depress the update button located inside the small hole on the back of the Gateway and hold it down.

5. Plug your Gateway back in.
6. LED “C” will begin flashing to signal that the update has started.
7. Once the update has begun you can stop pressing down the update button.
8. After the update is complete, LED “C” will stop flashing and the Gateway will restart and be ready to use.

### **1.3 Getting Started**

Setting up your Orphek Atlantik v3 unit is as simple as plugging in a TV.

1. Connect all Orphek Atlantik components together, Driver, power cord and light array.
2. Plug Orphek Atlantik LED unit into your selected outlet. As with all equipment relating to your tank, we recommend a GFCI protected outlet or device.
3. Wait 2 minutes to allow the light to power up. The light will begin “breathing” (slowly ramping up and down).
4. Connect the Orphek Atlantik Gateway to your home router via Ethernet cable. (user supplied)
5. Connect Orphek Atlantik Gateway to your selected outlet. As with all equipment relating to your tank, we recommend a GFCI protected outlet or device.
6. Wait two minutes to allow the lights time to connect to the gateway device. You should see a red light flashing on the Gateway device to signal connection with your lights.
7. You are now ready to download the Orphek app and begin using your lights.

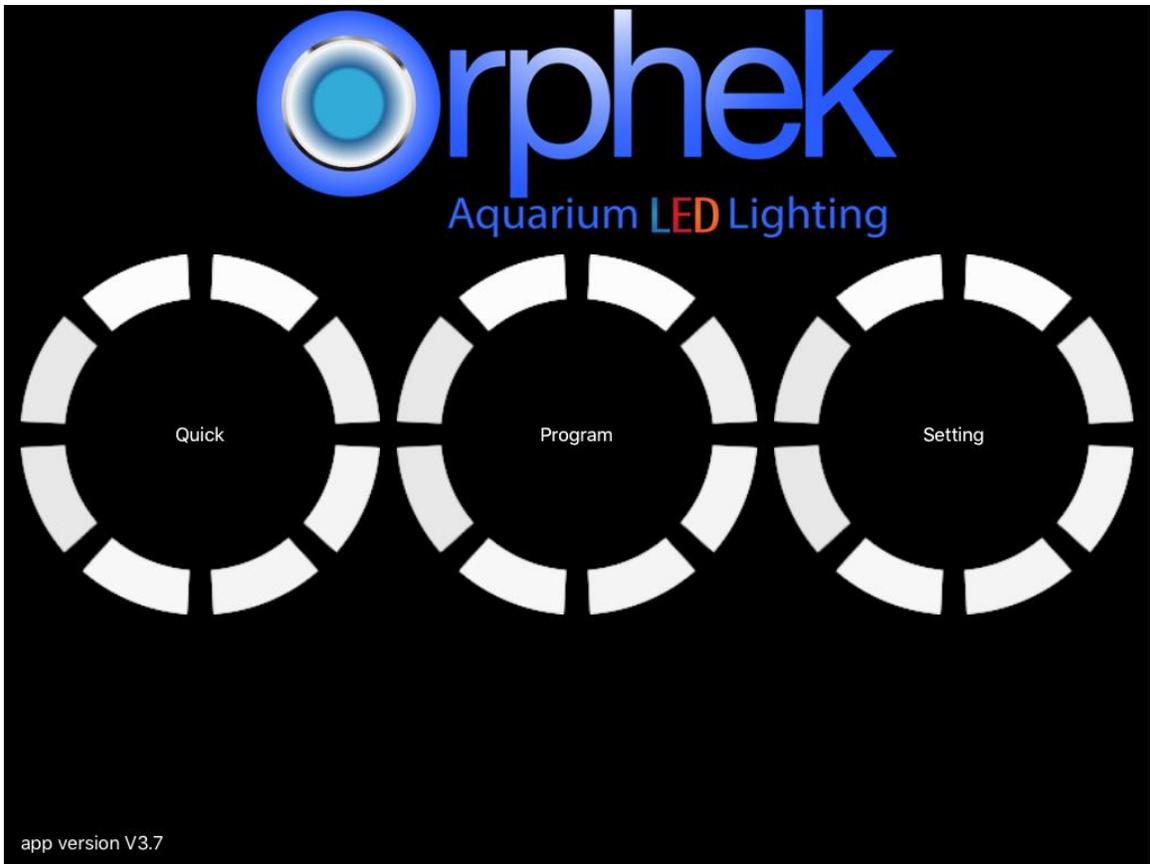
### **1.4 Downloading/installing and using the Orphek app**

In order to begin controlling and programming your Orphek Atlantik v series light, you will need to download the Orphek application from the Apple App store. You can do this on your chosen apple device by entering the app store and searching for “Orphek.” Once the app appears, select the app and download it.

Once you have the app installed on your device you are ready to begin controlling and programming your lights.

### **1.5 Connecting to your light**

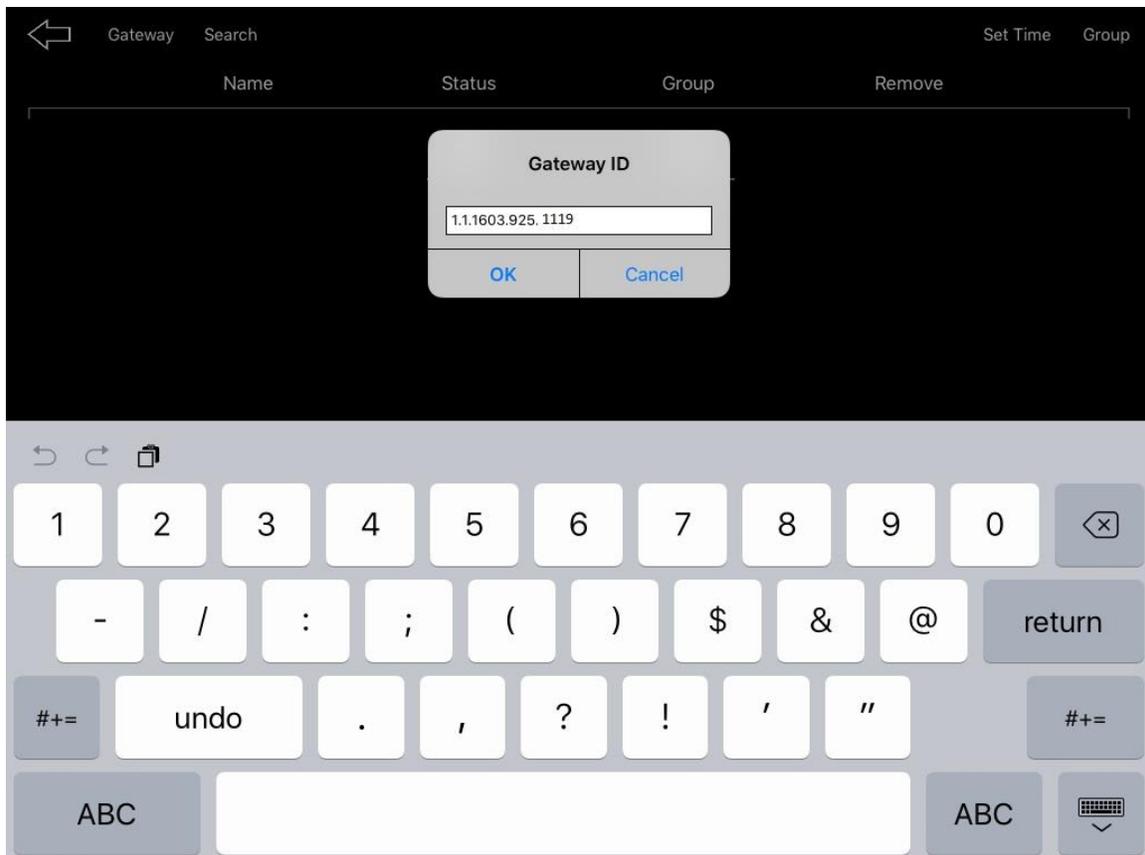
Open the Orphek app and you will be brought to the Main Screen



Choose SETTING

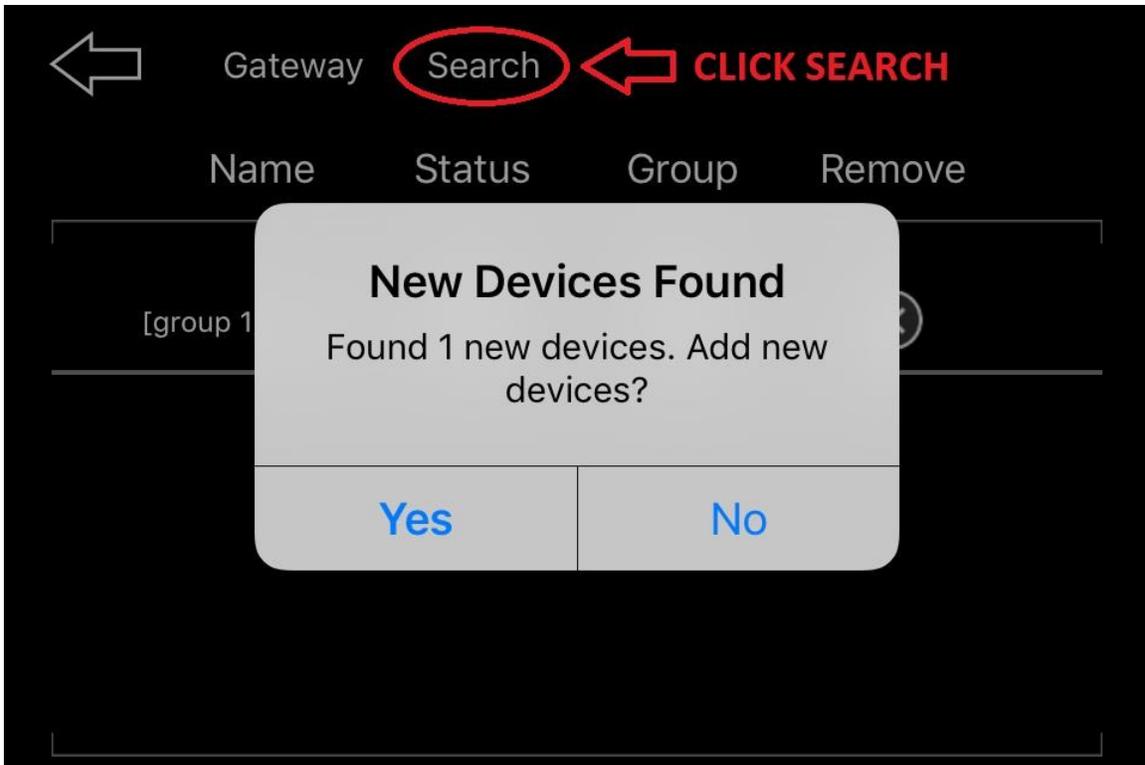


In the upper left hand corner- select GATEWAY. Enter the Gateway ID off of the sticker on your Orphek Atlantik Gateway into the dialogue box.

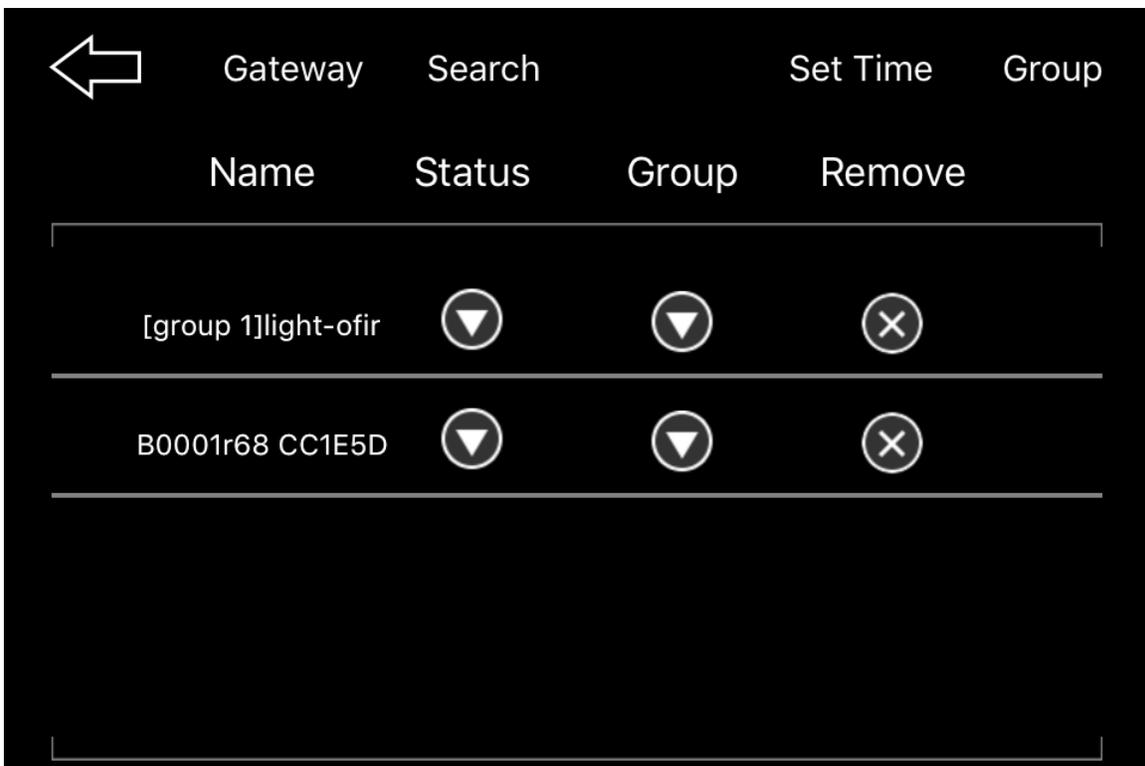


Once you have entered the Gateway info click OK. Then you will be brought back to the settings screen where the device will tell you that if found new devices and ask you if you wish to add them. If this does not occur automatically you may have to click SEARCH.

**IMPORTANT NOTE:** This step only needs to be done the first time that you connect the lights. If you lose connection at any point you can power cycle the Gateway and the lights and they will automatically reconnect.

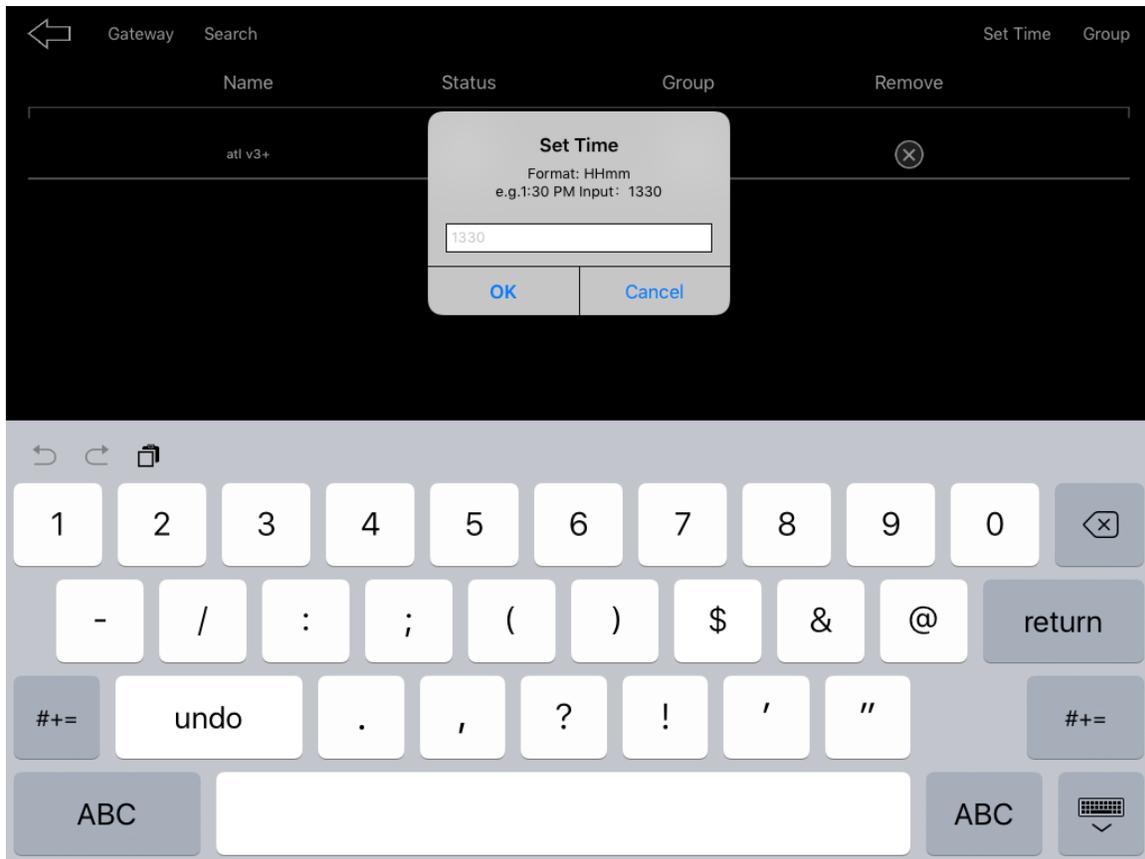


After the lights have been added they will appear in your list.



## [1.6 Setting Time](#)

When you click SET TIME in the upper right hand corner of the Settings page you can change the time and the units will operate on this new time. Time must be entered in 24hr format. For Example: 1:30 pm would be entered as 1330.

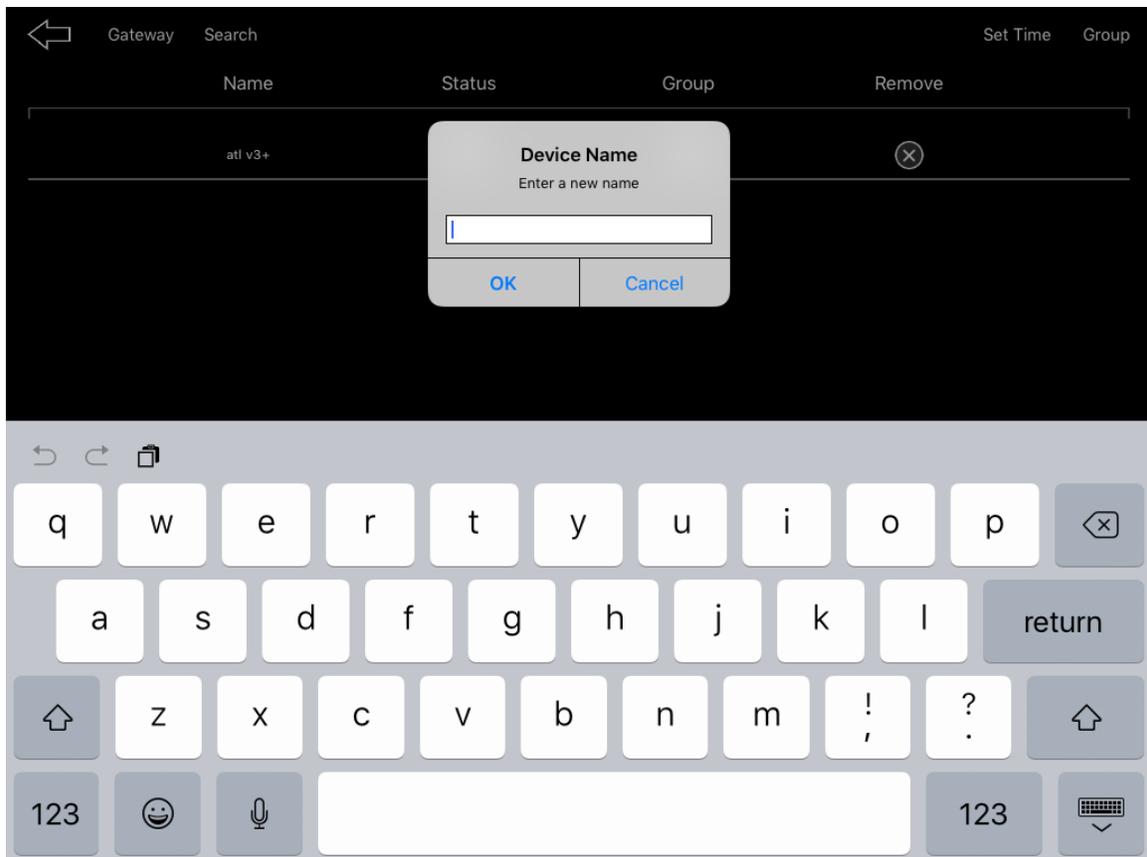


For locations that change time seasonally, you will need to make these changes manually as your Atlantik LED system does not automatically adjust for these seasonal changes.

### [1.7 Changing Light Name](#)

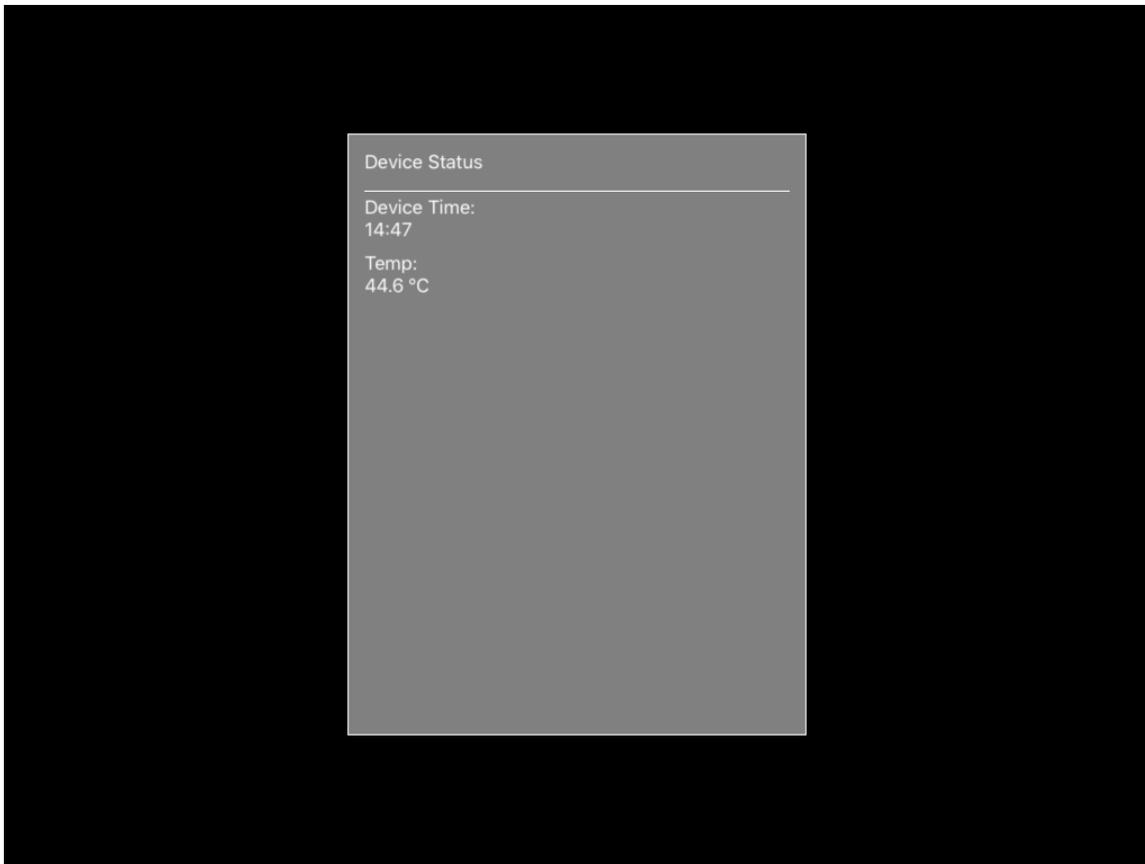
You can change the name of your light to enable you to quickly reference which light is which in the application. For example: in a three light setup you may name them Left, Center and Right.

To change the name of the light, touch on the light in the Settings screen. The Device Name dialogue box will appear. Type in the name you wish for that light and click OK. Repeat the process for any lights that you wish to change the name of.



### [1.8 Checking the status of a light](#)

Under the status heading, clicking “▼” will show the time and the temperature of the unit.

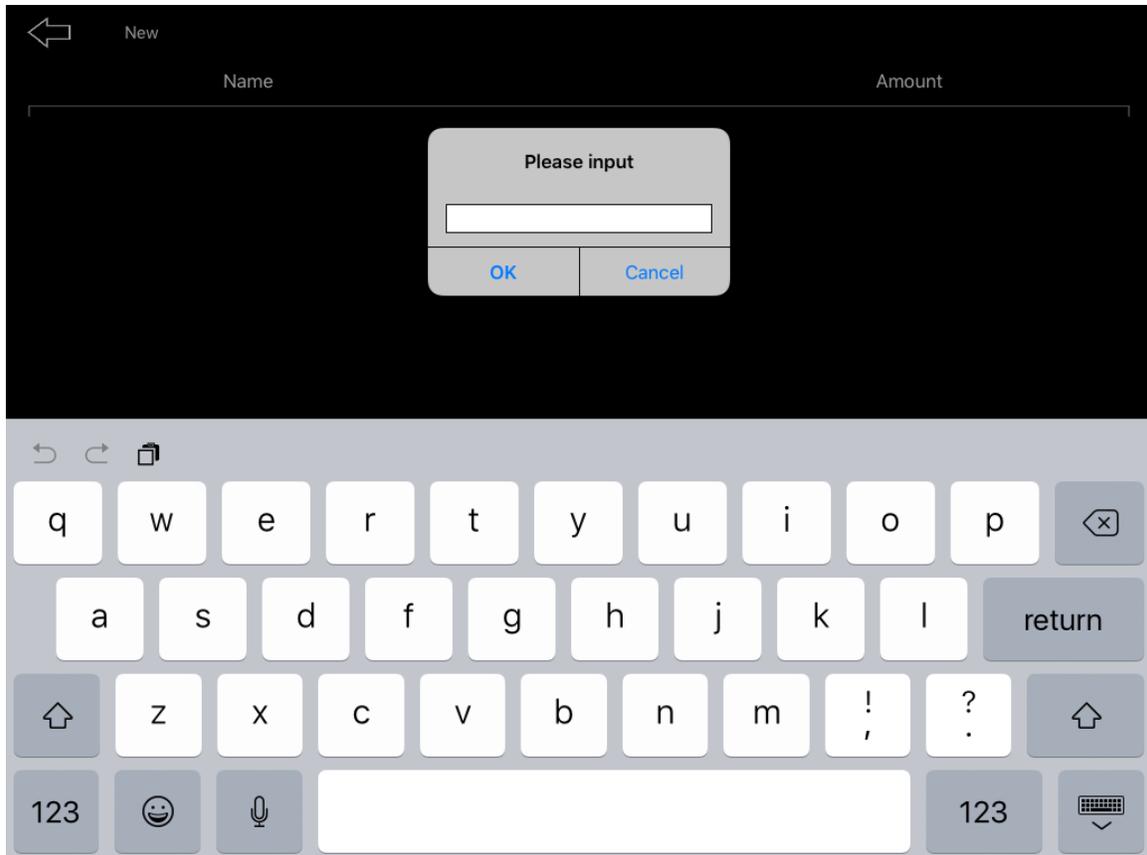


## [1.9 Creating and Managing Groups](#)

You can create groups and assign specific lights to certain groups in order to stay organized with different lights on different systems and running different programs.

Example: In a home with a display system and a frag/grow out system. The user can create a group titled “Display” and groups titled “Grow out” and then, assign the lights over each system to a specific group. Then the lights can be programmed and controlled based upon their assignments.

Creating a group is done from the Settings page by clicking on GROUP and then NEW and typing the name of the group in the dialogue box and selecting OK to save.



After you have create the group you can add individual lights to the group in the Settings page by clicking on “▽” under the Group heading and choosing the group you want to assign the light to.



New

Name		Amount	
Display	▼	0	⊗
Grow Out	▼	0	⊗



Gateway

Search

Set Time

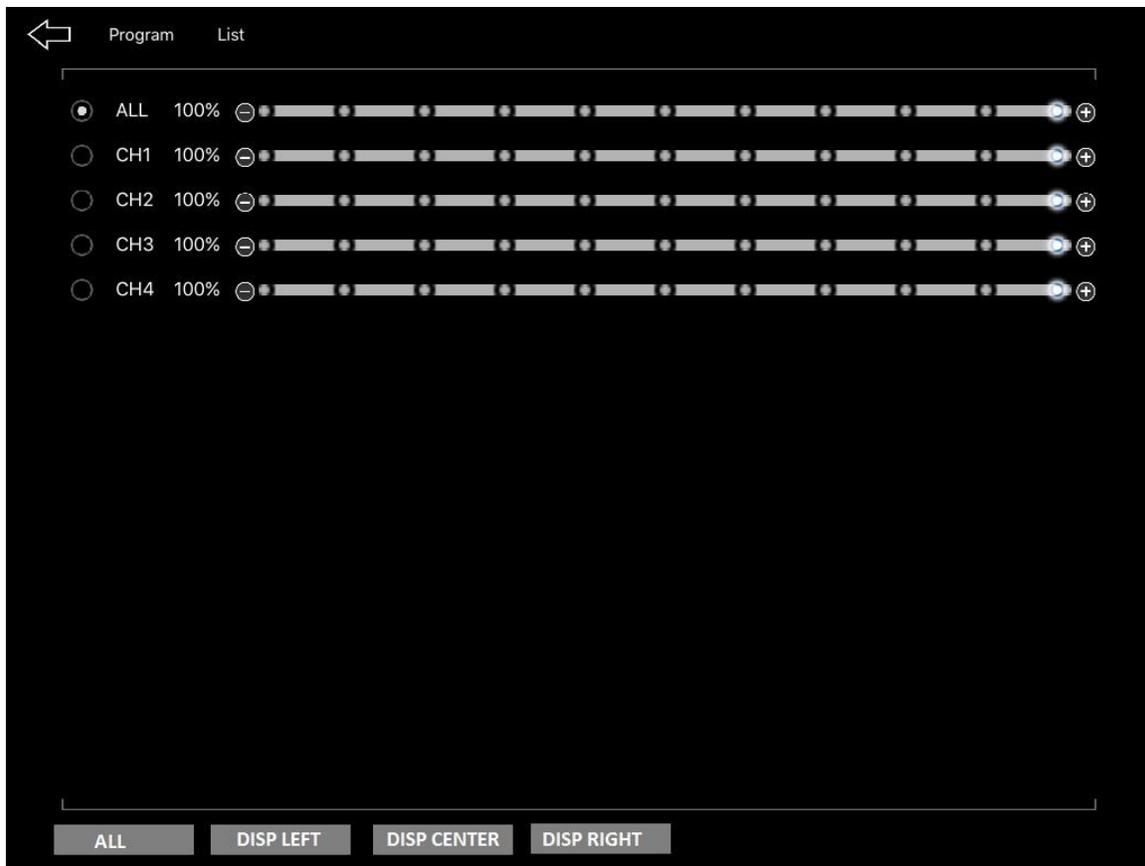
Group

Name	Status	Group	Remove
[Display]atl v3+	▼	▼	⊗

## **Section 2- Quickset**

### **2.1 Choosing Light to Control-**

At the bottom of the Quickset screen is a list of lights that are connected to your system. You can select to control ALL or each light individually.



## [2.2 Adjusting Intensity-](#)

Adjusting intensity can be accomplished by sliding the button back and forth or by using the “+/-“ buttons at the end of the scale. You can adjust all channels or each channel individually by selecting from the channels on the left.



### [2.3 Quick Set Presets](#)

To access the list of preset Quick Set settings, select LIST in the upper left hand corner of the Quick Set page. This will bring up a list of quickset modes. Choose a preset and select it to immediately change the light to this setting.



	<b>Name of the mod</b>	<b>CH 1 %</b>	<b>CH 2 %</b>	<b>Ch 3 %</b>	<b>Ch 4 %</b>
	Actinic Violet	0	0	100	0
	Actinic Deep Blue	0	40	100	0
	Clear Blue	0	100	0	0
	Actinic Full Spec.	0	40	100	40
	Full spec. 25K	60	100	100	40
	Full spec. 20K	60	100	100	60
	Full spec. 14K	80	100	100	80
	Full Spec. 10K	100	50	100	100
	Maintenance	30	80	80	30

## [2.4 Resuming Previously Loaded Program](#)

After you are done with quickset, you can immediately resume the last program that was loaded into the light by clicking PROGRAM in the top left corner of the of the Quickset screen.

NOTE: If you leave the lights in quickset mode, they will automatically resume their last program after 2 hours. This is a built-in safety feature to help prevent the lights from being left on.

## Section 3- Programming

### 3.1 Understanding the Program Page

The program page is designed to handle all of the programming features of the Atlantik system. It allows you to select the light you want to program as well as each channel, time and intensity. You can also access all of the preprogrammed modes as well as any custom programs that you have saved in the system.



### 3.2 Choosing a Pre-Programmed Mode

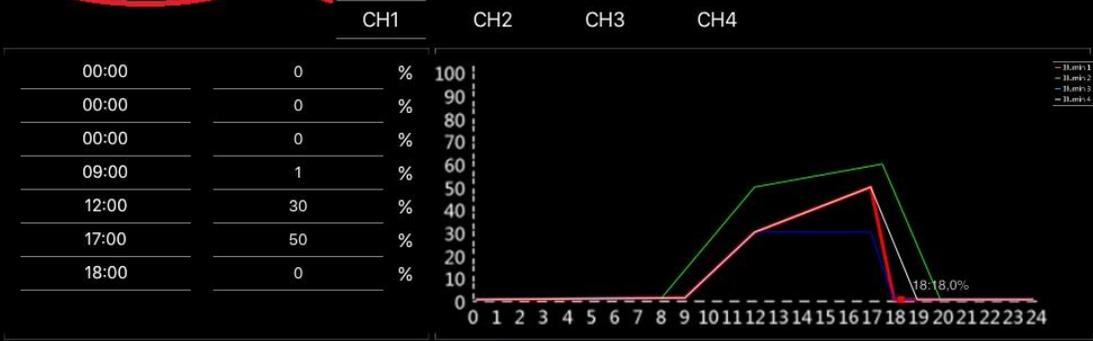
In the top left corner of the Program Page, select the program that is currently listed. This will bring up a list of the Pre-Programmed modes and any custom programs that you have saved. Select one of the programs and then you will be returned to the Program Page and the selected program will be displayed. If you wish to send this program to the light, simply select SEND and the program will be sent to the light and you will receive a confirmation that it has been sent.



Slow Acclimation



Clouds



Send

- All
- atl v3+
- Display
- Grow Out

Choose a Program

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Slow Acclimation

Increased Coral Growth

Coral Color

Maintaining fast growth

Coral Color + Growth

Coral Fragging

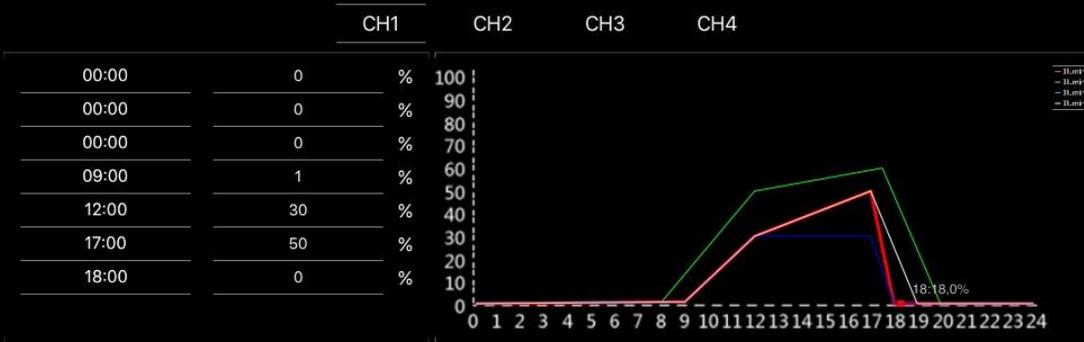
Retailer Showroom

LPS + Soft Corals



Slow Acclimation

Clouds



Send

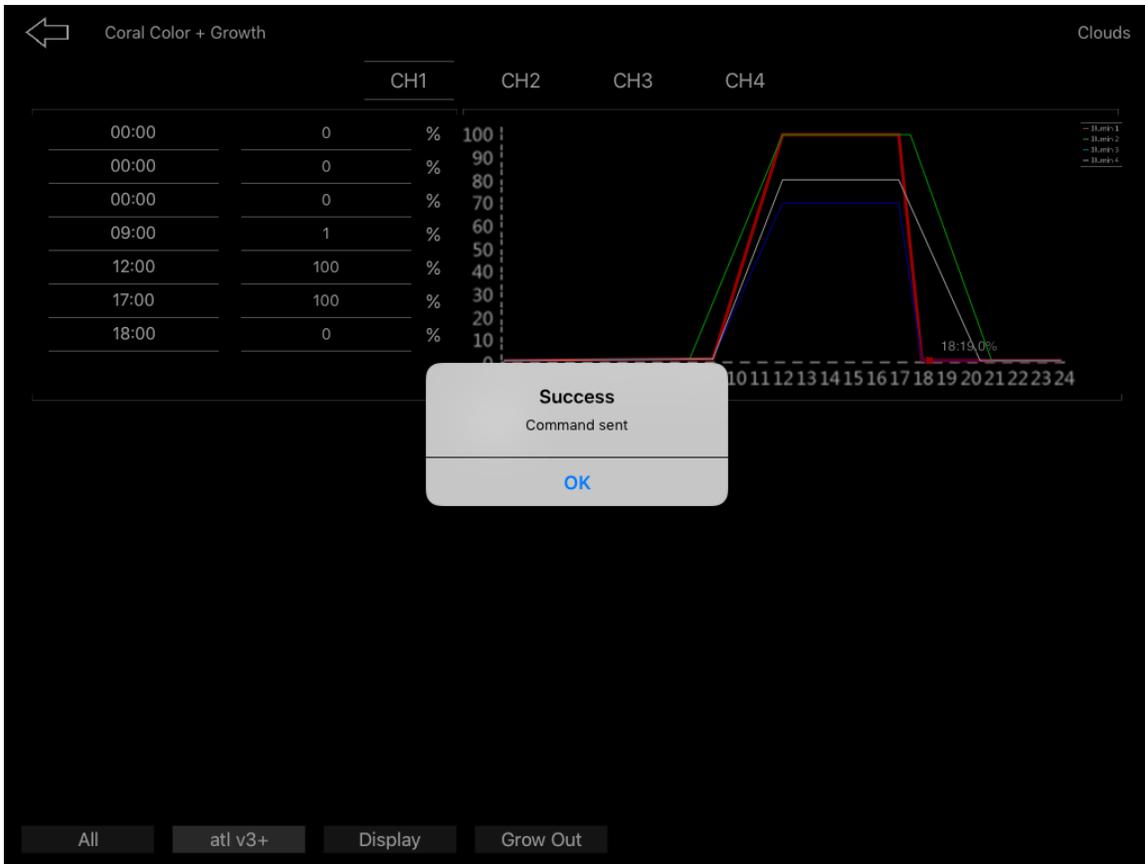


All

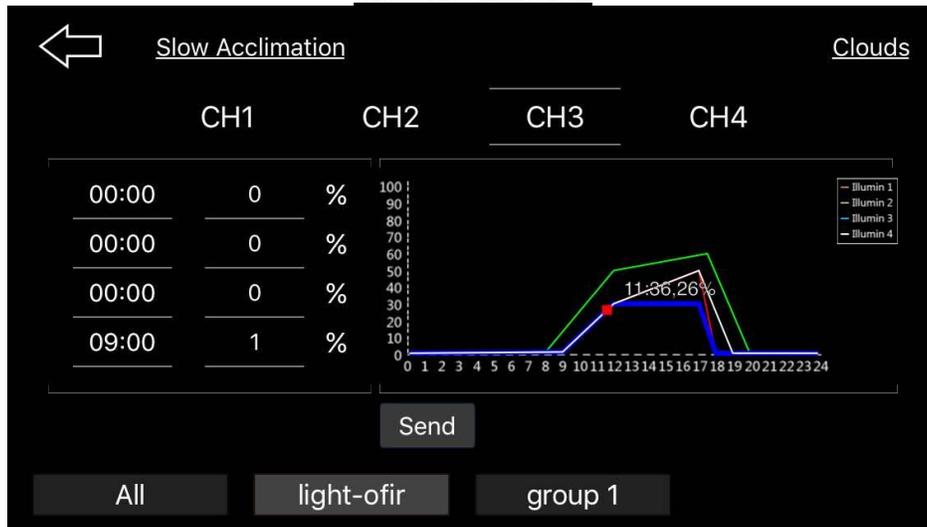
atl v3+

Display

Grow Out



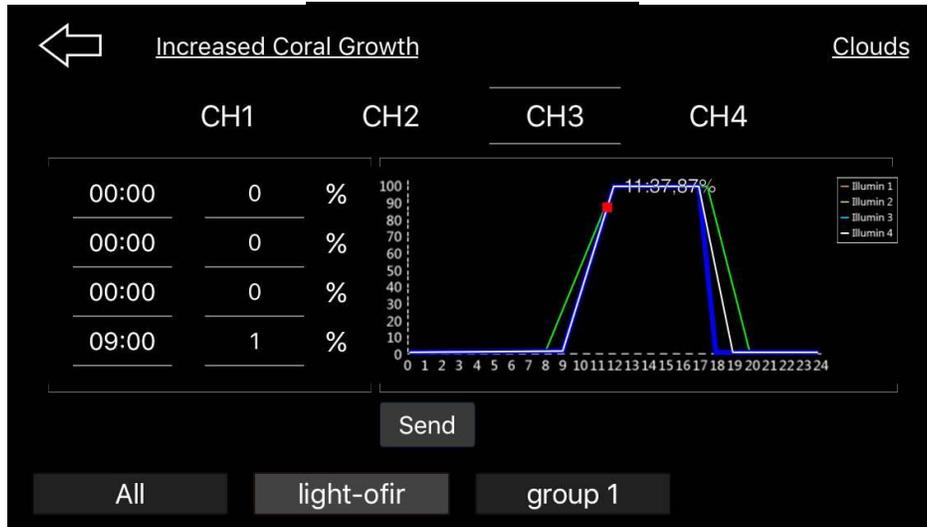
### Slow Acclimation



The functions much the same as it's name. It is designed to slowly acclimate coral to LED lighting. We recommend starting with this program for a period of one week.

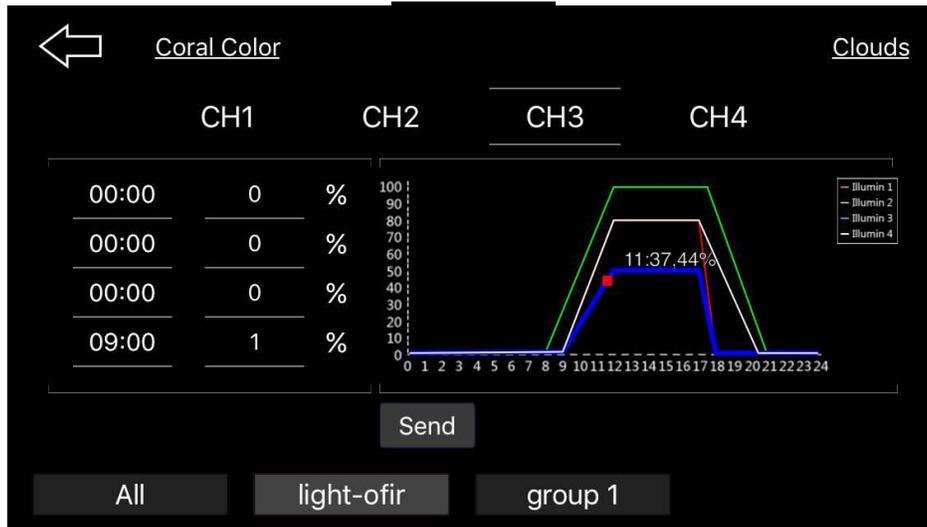
When this period is complete you can now use the program below.

## Increased Coral Growth



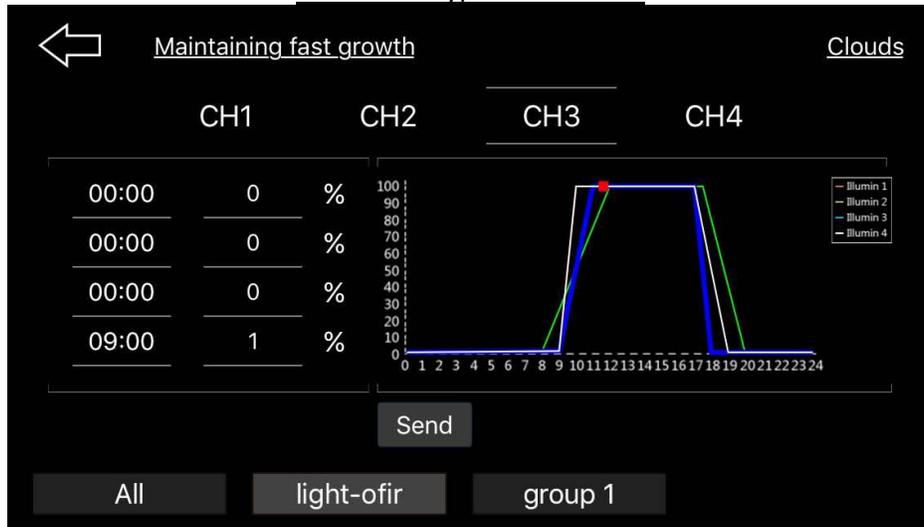
Increased Coral Growth raises the intensity of all channels to 100% for the highest PAR available. If you have a shallow tank you should reduce the intensity of all channels and save this modified program as another program with a name of your choice.

## Coral Color



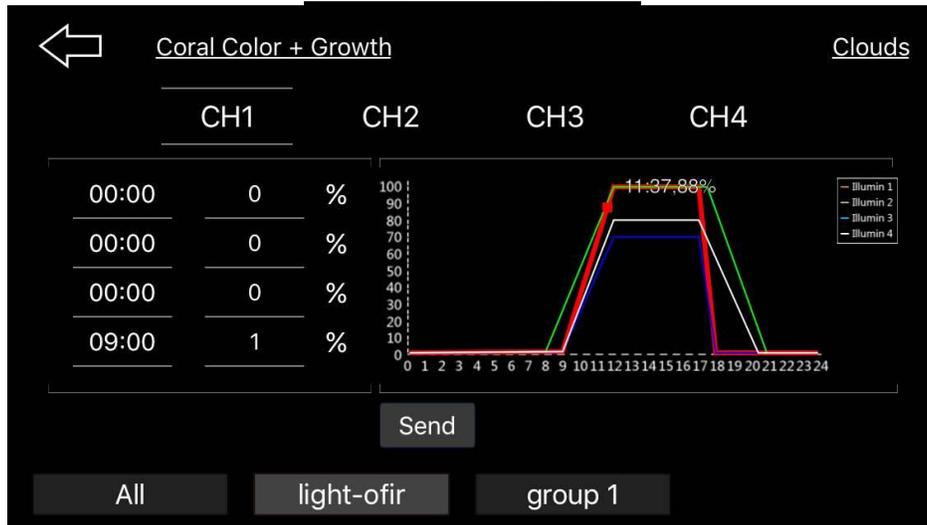
Coral Color is an interesting channel as it raises the intensity of the 28, 460nm blue LEDs to 100% and lowers the UV channel (3) to 50% to bring out very nice coral color. You can tweak the channels if you desire and again, save as another program with a name you choose.

## Maintaining Fast Growth



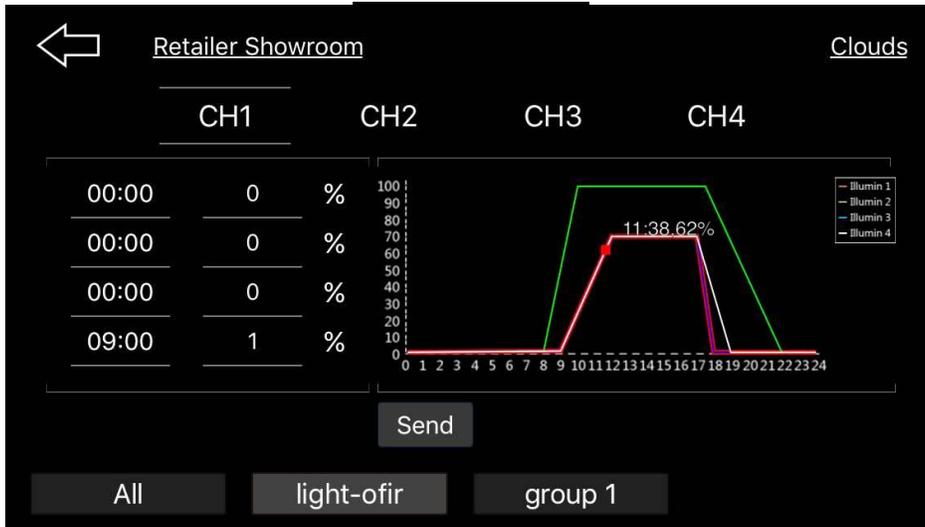
The above screen shot for this channel explains what this channel does very well. Here we have all channels at 100% intensity but for an increased time span at 100%. This channel provides all the PAR/PUR the Atlantik V3 can deliver. This channel is not recommended for fragging.

## Coral Color and Growth



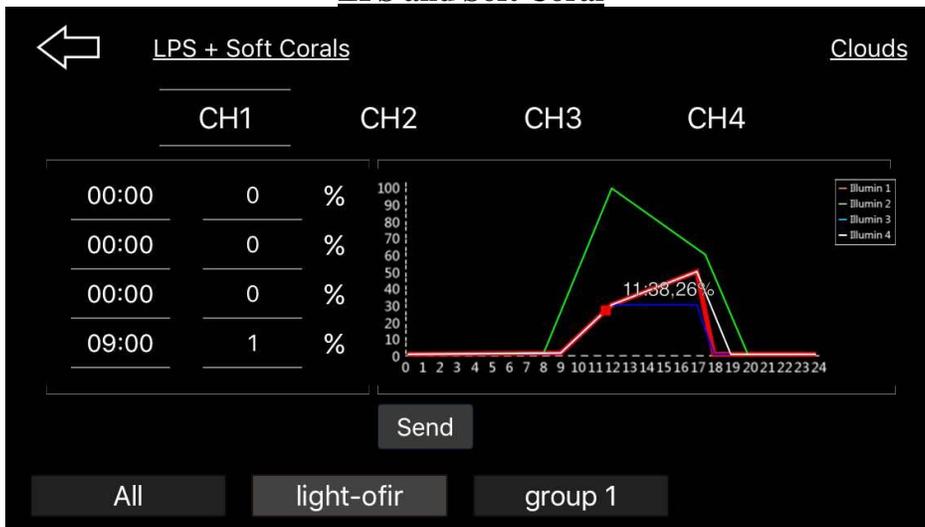
This channel is a two in one channel, it highlights coral color while at the same time increases coral growth by keeping the essential growth channels at a higher level.

### Retail Showroom



This channel is designed for which it was named. This channel highlights the intensity available in the 460nm range while at the same time highlighting great coral color.

### LPS and Soft Coral



This channel is designed for softie and LPS lovers using the Atlantik V3. It best highlights mushroom coral including Ricordea and zoanthids. This channel will provide the lower intensity these coral do best at. The peak in the blue channel (2) simulates high noon on the reef.

### [3.3 Using the Cloud Functions](#)

←

Soft Clouds      From      00:00      To      00:00      ON      OFF

Strong Clouds      From      00:00      To      00:00      ON      OFF

Send

All    atl v3+    Display    Grow Out

The default time for Strong Clouds and Soft Clouds is 0:00-00:00 and the default state is OFF.

Enabling a cloud function will allow cloud simulation three times per hour and for five minutes each time. The operation times that are preprogrammed for each hour are: H:15-H:20 H:30-H:35 H:45-H:50

Example: If you select the cloud function to operate between 0900 to 1000 and send it, you will have the cloud effect at 0915 to 0920, 0930 to 0935 and 0945 to 0950. For every hour of cloud function you program the cloud simulation will occur three times per hour and for five minutes each time. The normal program you selected will operate during the cloud function “off” times.

Note: When programming clouds for the first time, the time must be entered in the “To” box first. If you attempt to enter the time in the “From” box first, a message will appear saying start time cannot be later than end time.

Description:

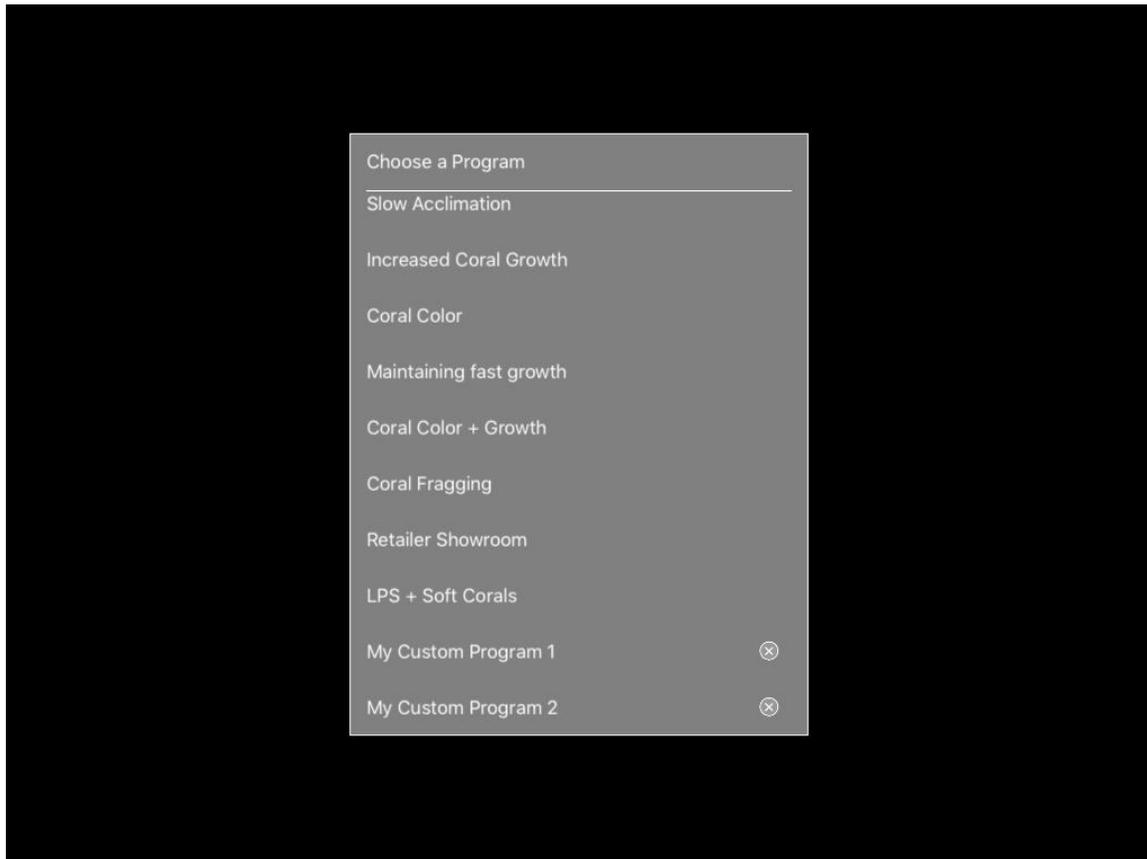
When Soft Clouds is selected the function will only occur if the light intensity is set to 80% or higher.

When Strong Clouds is selected the function will only occur if the light intensity is set to 50% or higher.

### **3.4 Creating a Custom Program**

The installed programs are just a sampling of the capabilities of the Atlantik V3 and we encourage you to develop your own program that matches your viewing schedule. Each installed program can be modified and saved as another program.

Custom programs will be listed at the bottom of the Program List as seen below.



### **3.5 Deleting Programs**

Factory installed Pre-Programmed modes cannot be deleted or modified.

Custom Programs that you have saved in the program list can be deleted by clicking on the “X” to the right of the custom program and removing it from the list.

### **3.6 Resuming Previously Loaded Program**

From the Programming Page, to resume the last program that was sent to a light, simply touch on the light that you wish to load the program from and the program will load and then it can be sent to the light using the SEND button.

## **Section- 4**

### **4.1 Unit Flashing Two Times**

If you experience your Atlantik unit flashing two times before resuming its program, this is a sign that there has been interference between the Orphek Atlantik Gateway and the Orphek Atlantik light itself.

To help alleviate this issue try the following remedies:

- Move the Gateway closer to the installation location of the lights.
- Position the antennae on the Gateway to enable better reception.
- Eliminate any items between the Gateway and the light that may be causing interference.

### **4.2 Setup/Initial connection Issues**

If you experience initial connection issues, unplug all units and begin with one light and one Gateway carefully following the instructions in section 1.2.

### **4.3 Timing Issue**

If your units are not following the correct time. Follow the steps in section 1.5 to reset the time and ensure the lights are operating on the correct time.

For locations that change time seasonally, you will need to make these changes manually as your Atlantik LED system does not automatically adjust for these seasonal changes.

### **4.4 Programming issues.**

If you experience timing issues or odd light schedules when using a custom program please review the following guidelines for programming.

- The times at the left of the programming screen need to follow a linear fashion from the beginning of the day to the end. Example: You cannot put 1:00pm after 5:00pm
- The first intensity at which you want the light to switch on should always be 1%
- The last intensity at which you want the light to switch off should always be 0%
- We do not recommend running moonlights all night. Your tank needs down time to allow the nocturnal creatures to do their jobs. We recommend at least 6 hrs of darkness.

- Utilize the Pre-Programmed modes as an example if you get stuck with programming.

#### **4.5 Light is no longer listed in app.**

If your light is no longer listed in the Orphek app or you accidentally hit REMOVE and cannot see your light any longer all you need to do is unplug power from the Gateway device, wait 1 minute and plug the device back in. Then after 2 minutes your light will show back up in the Orphek App.