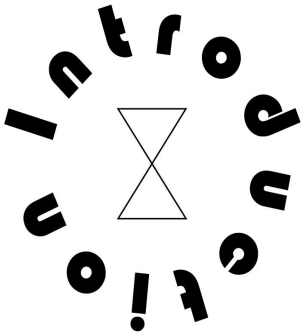
Operations Manual | Orphek Atlantik v3+



Introduction

Orphek Atlantik v3+

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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Section 1

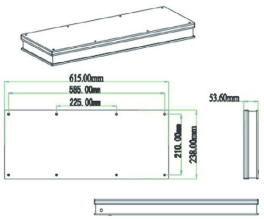
Orphek Atlantik v3+

Setup

1.1 Understanding the Components

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 Specifications



Color /Materials

Light Unit Body Material: Black acrylic houisng and silver stainless steel grill

Weight

Light Unit Weight: 16.7 lbs (7.6kg)
Power box Weight: 2.2 lbs (1.02kg)

Package Dimensions / Weight

Length: 28.3" (720mm)
Width: 16.5" (420mm)
Height: 7" (180mm)
Package Weight: 22 lbs (10kg)
Package V.W.: 24.2 lbs (11kg)

Cords

Power extension cord with waterproof connector from light Unit to power Box: total 112" (2.85m)

Power Cord: 59"(1.5m)

Electrical

Mean Well Driver Model: HLG-240H-48A
Input Voltage: 100 - 240VAC
277VAC for North America only
Frequency: 47 - 63Hz
Power consumption: 220~230 watts
PF(Power factor) 0.973
Input Current(Amps) 0.883
Output Voltage(V) 48
Electrical outlet: Region appropriate

Hanging Kit

2 steel cables: 9.84" (250mm)
1 steel cable: 70.86" (1.8m)

Dimensions

Length: 24.21" (615mm)
Width: 9.37" (238mm)
Height: 2.11" (53.6mm)

1.3 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.

i. Screw the external antennae into the Orphek Atlantik Gateway

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

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

iv. Plug the power adaptor into your wall socket

v. The LEDs on the front of the Gateway will light up

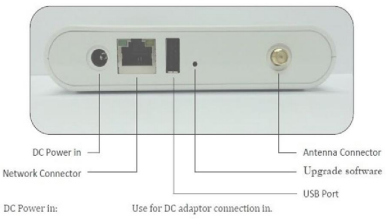
vi. When the Gateway is ready to use LED "A" lights up

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.

i. Download the upgrade software to a standard USB flash drive. (Update notices will be posted on the Orphek.com website)

ii. Power the Gateway off by unplugging the power cable.

iii. Plug your USB flash drive into the USB port on the back of the Gateway.

iv. 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.

v. Plug your Gateway back in.

vi. LED "C" will begin flashing to signal that the update has started.

vii. Once the update has begun you can stop pressing down the update button.

viii. After the update is complete, LED "C" will stop flashing and the Gateway will restart and be ready to use.

1.4 Getting Started

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

- Connect all Orphek Atlantik components together, Driver, power cord and light array.
- 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.
- Wait 2 minutes to allow the light to power up. The light will begin "breathing" (slowly ramping up and down).
- Connect the Orphek Atlantik Gateway to your home router via Ethernet cable. (user supplied)
- Connect Orphek Atlantik Gateway to your selected outlet. As with all equipment relating to your tank, we recommend a GFCI protected outlet or device.
- 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.
- You are now ready to download the Orphek app and begin using your lights.

1.5 Downloading/installing and using the Orphek app

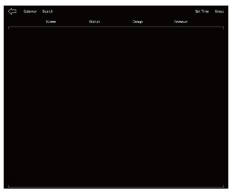
In order to begin controlling and programming your Orphek Atlantik v series light, you will need to download the Orphek application from the Apple App store. You can do this on your chosen apple device by entering the app store and searching for "Orphek." Once the app appears, select the app and download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

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

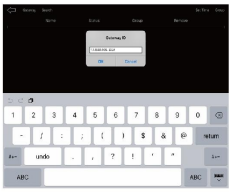
1.6 Connecting to your light

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

- Choose SETTING

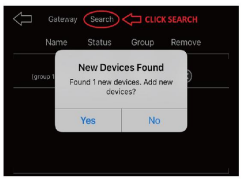


- In the upper left hand corner- select GATEWAY. Enter the Gateway ID off of the sticker on your Orphek Atlantik Gateway into the dialogue box.



- 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.

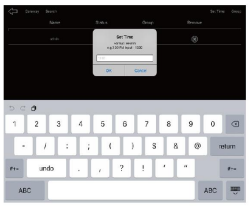
- IMPORTANT NOTE: This step only needs to be done the first time that you connect the lights. If you lose connection at any point you can power cycle the Gateway and the lights and they will automatically reconnect.



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

1.7 Setting Time

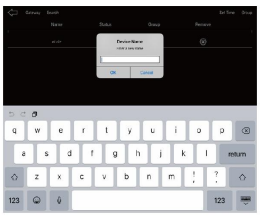
When you click SET TIME in the upper right hand corner of the Settings page you can change the time and the units will operate on this new time. Time must be entered in 24hr format. For Example: 1:30 pm would be entered as 1330.



1.8 Changing Light Name

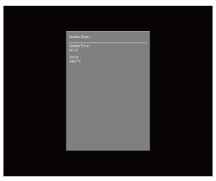
You can change the name of your light to enable you to quickly reference which light is which in the application. For example: in a three light setup you may name them Left, Center and Right.

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.



1.9 Checking the status of a light

Under the status heading, clicking "▽" will show the time and the temperature of the unit.

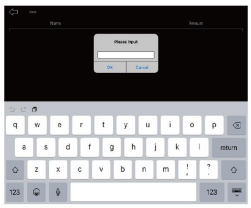


1.10 Creating and Managing Groups

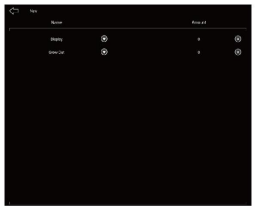
You can create groups and assign specific lights to certain groups in order to stay organized with different lights on different systems and running different programs.

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.



Section 2

Orphek Atlantik v3+

TWO

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.

Color	Name of the mode	CH 1 %	CH 2 %	CH 3 %	CH 4 %
	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

Orphek Atlantik v3+

T H R E E

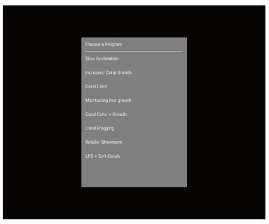
Programming

3.1 Understanding the Program Page

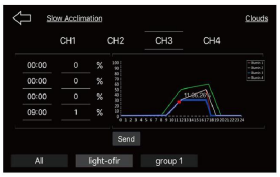
The program page is designed to handle all of the programming features of the Atlantik system. It allows you to select the light you want to program as well as each channel, time and intensity. You can also access all of the preprogrammed modes as well as any custom programs that you have saved in the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

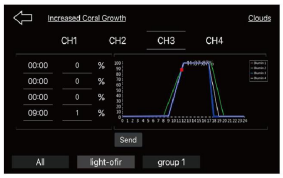


Slow Acclimation



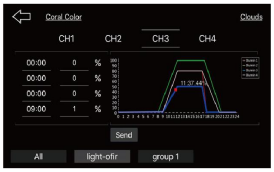
The functions much the same as it's name. It is designed to slowly acclimate coral to LED lighting. We recommend starting with this program for a period of one week. When this period is complete you can now use the program below.

Increased Coral Growth



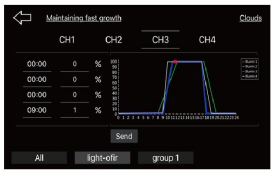
Increased Coral Growth raises the intensity of all channels to 100% for the highest PAR available. If you have a shallow tank you should reduce the intensity of all channels and save this modified program as another program with a name of your choice.

Coral Color



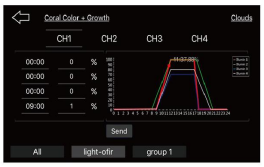
Coral Color is an interesting channel as it raises the intensity of the 28, 460nm blue LEDs to 100% and lowers the UV channel (3) to 50% to bring out very nice coral color. You can tweak the channels if you desire and again, save as another program with a name you choose.

Maintaining Fast Growth



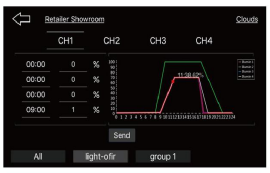
The above screen shot for this channel explains what this channel does very well. Here we have all channels at 100% intensity but for an increased time span at 100%. This channel provides all the PAR/PUR the Atlantik V3 can deliver. This channel is not recommended for fragging.

Coral Color and Growth



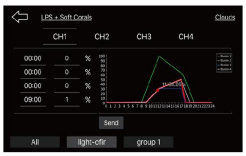
This channel is a two in one channel, it highlights coral color while at the same time increases coral growth by keeping the essential growth channels at a higher level.

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

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.

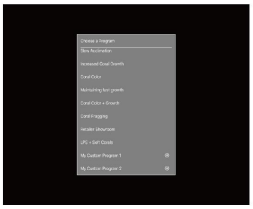
Description:

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.

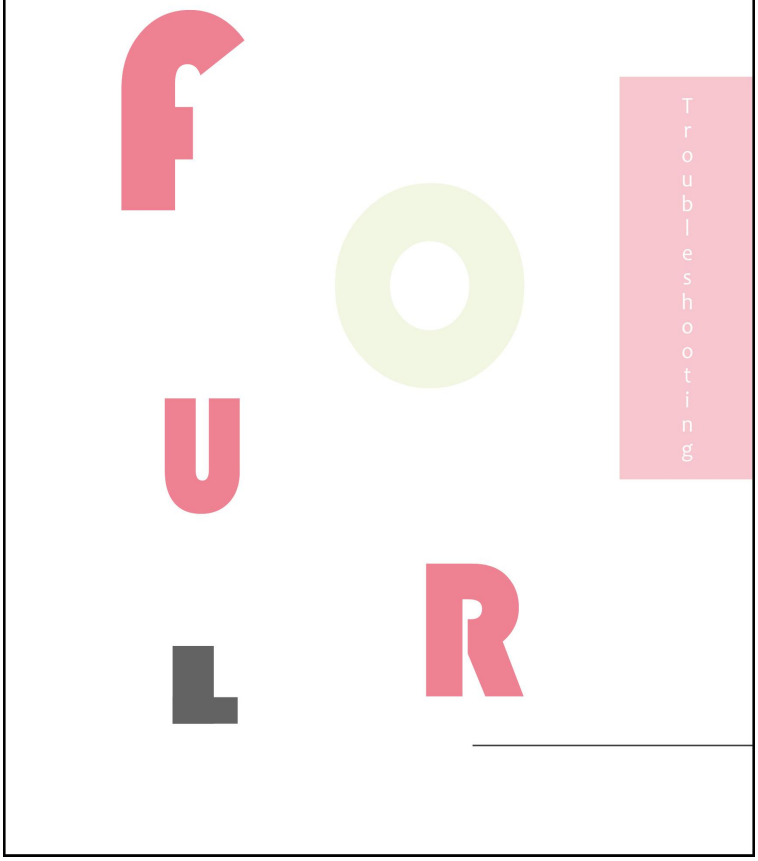
Custom Programs that you have saved in the program list can be deleted by clicking on the "X" to the right of the custom program and removing it from the list.

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

Orphek Atlantik v3+



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 accidently 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.

Section 5

Orphek Atlantik v3+

Safety Guide

5.1 First Observations

- ☐ Only authorized and qualified electrical workers should install, repair or perform maintenance on electrical equipments. But if you still opt to do it yourself: Check basic safety guides for electrical works before you install any electrical device by yourself (there are plenty of them available in the internet!).
- ☐ Make sure you are following the safety procedures to avoid shock or fire hazard. If you are not sure that you can install your Orphek Atlantik v3+ by yourself bring a professional with the correct skills to assist you or install the unit(s) for you.
- ☐ Do not install your unit(s) near children or animals. Also place the contents of the package far from their reach.
- ☐ Do not install your unit(s)with the help of a child or any person who does not have the basic skills and does not know the basic safety procedures for installing electrical apparatus.

5.2 Warning

Electrical shock can cause death.

Electrical shock can often cause internal damage that may not be immediately apparent.

Never look directly into the LEDs. It may cause damage to your eyes!

5.3 Reduce Electrical Shock Risk

i. Do not work on electrical equipment in a wet area or when touching an object that may provide a hazardous earth ground path.

ii. Do not immerse your Orphek Atlantik v3+ in water. If the unit(s) falls into the water, **don't reach for it!** First unplug it and then retrieve it. If electrical components of the unit(s) get wet, unplug the unit(s) immediately.

iii. Never rely on your memory, read our manual and the safety guide before you start to install your Orphek Atlantik v3+ and have it with you for reference during installation.

If you have any questions, or did not understand any information of this guide please kindly contact Orphek Customer Assistance Team.

5.4 Epilepsy & Photosensitivity

Exposure to lights at certain intensities or to certain visual patterns can trigger seizures. This condition is known as photosensitive epilepsy. Many people are unaware that they are sensitive to flickering lights or to certain kinds of patterns until they have a seizure. Check with your doctor if you are concerned about light patterns triggering seizures. Although the exposure to blue light is very important to human beings, some people might have sensitive skin or eyes from it. Check with your doctor if you are concerned about a possible sensitivity.

5.5 More Tips for Injury Prevention

- ☐ Test if your electricity is operating correctly in the area installed and switches it off before installing your Orphek Atlantik v3+.
- ☐ Ensure equipment, tools and equipment are in good operating condition.
- ☐ Never use equipment, tools or equipments that are in disrepair or not properly maintained.
- ☐ Ensure electrical components (switches, resistors, capacitors, inductors, transistors, etc.) are appropriate for the circuit or apparatus.
- ☐ Never overload circuits.
- ☐ Never leave unprotected systems unattended.
- ☐ Never place containers of liquid on electrical systems.
- ☐ Ensure to turn off the power supply first before disassembling the circuit.
- ☐ Use only tools and equipment with non-conducting handles when working on electrical devices.
- ☐ Never use metallic pencils or rulers, or wear rings or metal watchbands when working with electrical equipment.
- ☐ When it is necessary to handle equipment that is plugged in, be sure hands are dry and, when possible, wear nonconductive gloves and shoes with insulated soles.
- ☐ If water or a chemical is spilled onto equipment, shut off power at the main switch or circuit breaker and unplug the equipment.

These are some of the safety tips. Orphek cannot provide you a full guide. Please check a complete electrical safety guide for all the safety rules of electrical installation procedures).

5.6 Important

Orphek warranty policy does not cover damage to products or loss of components incurred in shipping of the product(s). Orphek has chosen carefully its transportation & delivery partners, but sometimes damage may occur for many reasons. In this case you should verify our shipping policies provided in our website: www.orphek.com. We strongly advice you to open your package(s) in front of the person delivering it (them) to check for damages. If you unfortunately do find damages or missing components, please take photos and make the person delivering the package(s) sign for these damages.

- ▲ Ensure all accessories are included in the box. If any component is missing, please contact Orphek or the retailer and inform of any missing components.
- ▲ Do not open the package(s) with a cratt knife or edged tool – it may damage you unit(s).
- ▲ Do not use the unit(s) for other than intended use (Check our warranty policies).
- ▲ Do not drop your unit(s).
- ▲ Check instructions for maintenance and cleaning your unit(s).
- ▲ Your Orphek Atlantik v3+ comes with an Orphek power supply – do not use another power supply from any other company.
- ▲ Do not use extension cables provided by any other company. If extension cables and cords are needed, contact Orphek for a price quotation. (Check our warranty policies before installing your unit(s)).
- ▲ Do not replace the LEDs, the built-in battery or any part of your unit for components not provided/sold by Orphek LED Lighting company (Check our warranty policies), before, during or after installing your unit(s).
- ▲ Your Orphek Atlantik v3+ is not waterproof. Water can permanently damage it. This damage is not covered under the warranty. Protect these components from splashes, drips, or other contact with water.

5.7 Safety Instructions for Installing your Orphek Atlantik v3+

- ☐ Assemble the mounting option you have chosen and pre- install it using the instructions provided with the mounting kit before installing your Orphek light(s).
- ☐ Double check if the mounting option is well installed to avoid personal injuries or to avoid dropping/breaking your unit(s).
- ☐ Carefully unpack unit(s) and components from box. We suggest setting the unit(s) with the LED's facing up on a soft towel or carpet to ensure the housing is not scratched or damaged.

- [ ] Carefully examine your Orphek Atlantik v3+ after installation and **before** you plug it into the GFCI and wall outlet.

- [ ] 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 unit(s). Then, you may unplug the unit(s) and examine for the presence of water.

- [ ] A "drip-loop" should be employed for each cord connecting a unit to outlet. A "drip-loop" is the part of the cord below the level of the GFCI outlet (or the connector if an extension cord), to prevent water from traveling along the cord and coming in contact with the outlet. If the plug or outlet does get wet, **don't unplug the cord**. Disconnect the fuse or circuit breaker that supplies power to the unit, then unplug and examine for presence of water in the outlet.

- [ ] Do not install, operate your unit(s) in places to be exposed to temperatures below 0º Celsius or 32 Fahrenheit or above 50º Celsius or 122 Fahrenheit.

- [ ] Ensure the unit(s) is securely installed before supplying power to the unit.

- [ ] DO NOT use any form of alcohol or solvent to clean your Orphek Atlantik v3+.

- [ ] Never place any objects or instruments on top of your unit(s) ordinances.

- [ ] Do not pull or cut the cord.

5.8 Safety Instructions for Storing your Orphek Atlantik v3+

Improper storage will damage temporarily or permanently your Orphek Atlantik v3+ unit(s) (Please check for our warranty policies before storing your Orphek products) ▲ Please keep the original package(s) to store the unit(s).

- [ ] Please store your unit(s) placed on a plain surface.

- [ ] Do not place any heavy object or heavy packages on your unit(s) package(s).

- [ ] Do not store your unit(s) in places to be exposed to temperatures below 0º Celsius or 32 Fahrenheit or above 50º Celsius or 122 Fahrenheit.

- [ ] Do not store your unit(s) in a wet or humid place or exposed to dust.

- [ ] Do not store your unit(s) in a place close to children or animal reach.

- [ ] Do not store your unit(s) close to any kind of chemical or corrosive liquids, cleaning products, bleach, pool cleaning or maintenance product, etc...

5.9 Safety Instructions for Cleaning your Orphek Atlantik v3+

Improper cleaning will damage temporarily or permanently your Orphek Atlantik v3+ unit(s) (Please check for our warranty policies before cleaning your Orphek products)

- Do not clean your unit(s) when turned on.
- Do not apply excessive wiping pressure or your body weight on the unit(s) to clean it (them).
- Do not use dirty, abrasive or linty cloths.
- Do not use any alcohol except isopropyl alcohol.
- Do not use any cleaners, such as acetone, which contain ketones, as they will destroy the acrylic and the metal surfaces.
- Do not use ammonia-cleaning products.
- Do not use metal or any kind polishing to clean your unit.
- Do not allow liquid to run into the air exits (fans) or inside the metal grill.
- Do not use sponges to clean your unit(s), they will scratch the surfaces and damage it.
- Do not you sharp tools in attempt to clean your unit(s).

5.10 How to clean your Orphek Atlantik v3+

i. Read the special considerations above.

ii. Turn your unit(s) off and allow it (them) to cool.

iii. Make sure your cloth is dry, clean and free of any grit before starting.

iv. Using light pressure wipe the acrylic surfaces to evenly remove any humidity or dust.

v. Be very careful when cleaning the bottom side where the LEDs are placed! Do not turn the unit(s) to clean.

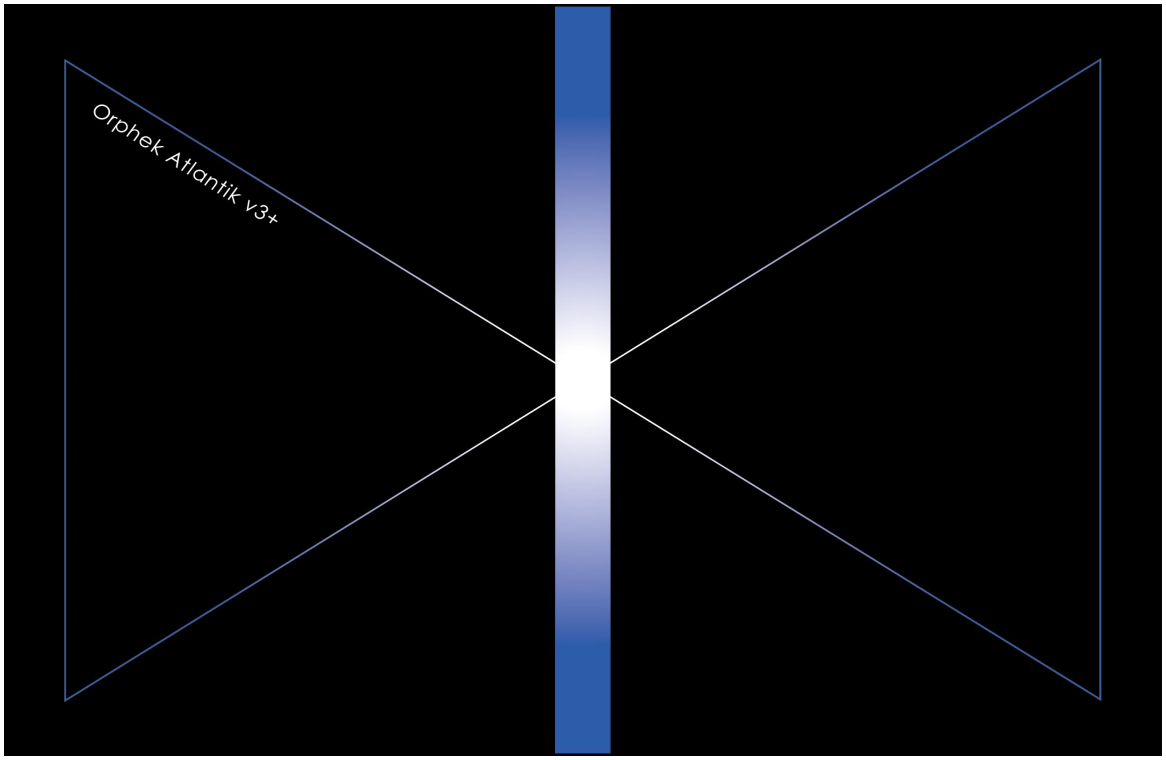
vi. If possible uninstall each and every unit before cleaning.

vii. Wipe gently and do not overwork or apply excessive pressure to avoid damaging the LEDs.

viii. Finally clean the edges and corners by lifting any dust or debris onto the cloth or use a clean soft brush.

IX Do not pull cords while cleaning your unit(s).

Remember: Keeping your units clean is very important to keep your Orphek Atlantik v3+ running well, but over or unnecessary cleaning may cause temporarily or permanently damage! So don't over do it!


Orphek Atlantik v3+