Thank you for purchasing Orphek Atlantik V2 Wireless!

In this manual you will find all the information needed to install, connect and program one Orphek Atlantik V2 Wireless unit.

You can also find in our website additional information that is useful for the advanced user as well as the entry-level hobbyists.

We expect that you will use your system well for many years to come and look forward to hearing from you about your success.

Please feel free to contact us at any time at info@orphek.com.

This guide does not substitute any electrical safety guide. It intends only to deliver basic information on how to install your purchased Orphek Atlantik V2 Wireless.

All information in this safety guide may be subjected to change without notice.

Please be fully familiarized with the information included in the Safety Guide and in this operational Guide before beginning installation or use of Orphek Atlantik V2 Wireless. Orphek is not liable for any damages of any kind resulting from the purchase, use, misuse, or inability of/to use the product(s) or arising directly or indirectly from the use or loss of use of the product(s), from the purchaser’s lack of knowledge or comprehension, including incidental, special, consequential or similar damages, or loss of anticipated profits or benefits. Also be aware that Orphek is not liable for damages arising from any sort (including negligence or gross negligence) on the part of the purchaser or faults in this safety guide. If in doubt please contact Orphek Customer Assistance Team.
Orphek Atlantik V2 Wireless at Glance

What are the features?
1. 78 customized high efficiency power LEDs
2. Wi-Fi/ WLAN/ Wireless technologies
3. Android technology
4. Built-in battery backup memory
5. High efficiency Mean Well drivers
6. Eight pre-installed programs & four channels
7. Full dimming capacity in all channels
8. Built-in calendar
9. Large storage with capacity for additional programs
10. Ability to program multiple Atlantiks simultaneously
11. Dawn to dusk & cloud simulators
12. Highest PAR/PUR
13. Ideal Spectrum for coral growth, color & health
14. 42 exclusive UV/violet/white LEDs with increased intensity of lm/w
15. New blue/cyan for more fluorescence coral color
16. 8 Different types of LEDs
What are the LED features?

1. 10 pcs 410nm - wide range 18k UV - white LEDs
2. 21pcs 420nm - wide range 6k violet - white LEDs
3. 7 pcs 470nm wide range blue - cyan LEDs
4. 10 pcs 450nm royal blue LEDs
5. 7 pcs 430nm violet LEDs
6. 4 pcs 410nm UV LEDs
7. 12 pcs full spectrum18000k white LEDs
8. 7 pcs Wide range red LEDs

What are the Operational System features?

1. Quick setting
2. Simultaneous wireless controlling and programming of up to 252 units in one tablet
3. Each unit is assigned its own digital address
4. Tanks can be distributed in different locations in the range of the wireless router
5. Eight pre-installed programs
6. Built-in calendar allowing storage of up to eight programs per month
What is in the box?
1 One Light Unit
2 One Power Box
3 One Power Cord
4 One Hanging Kit

What are the dimensions?
Length: 24.21" (615mm)
Width: 9.37" (238mm)
Height: 2.11" (53.6mm)

Orphek Atlantik V2 Wireless dimensions
What are the specifications?

**Color/Materials**

Light Unit Body Material: White acrylic housing and silver stainless steel grill

**Weight**

Light Unit Weight: 215 lbs (7.6 kg)

Power box Weight: 3.97 lbs (1.02 kg)

**Cords**

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

Power Cord: 59" (1.5 m)

**Hanging Kit**

2 steel cables: 9.84" (250 mm)

1 steel cable: 70.86" (1.8 m)

**Electrical**

Mean Well Driver Model: NES-350-48

Input voltage: 90~132 VAC / 180~264 VAC (Selectable by switch)
Frequency: 47–63 Hz
Power consumption: 180 – 186 watt
Electrical outlet: Region appropriate

What is optional at an additional cost?
1 Customized Ratio
2 2 chips in one LED (Orphek Atlantik V2 B)
3 Mean Well Waterproof no fans driver
4 7” Android tablet
5 Extension Cables from Light Unit to Power Box (118”/3m)

Contact Orphek for further details!
Orphek Atlantik V2 Wireless looks like this!

Orphek Atlantik V2 Wireless accessories look like this!
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First Observations
1. 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). 2. 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 V2 Wireless by yourself bring a professional with the correct skills to assist you or install the unit(s) for you. 3. Do not install your unit(s) near children or animals. Also place the contents of the package far from their reach. 4. 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.

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!

Reduce Electrical Shock Risk
1. Do not work on electrical equipment in a wet area or when touching an object that may provide a hazardous earth ground path. 2. Do not immerse your Orphek Atlantik V2 Wireless 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. 3. Never rely on your memory, read our manual and the safety guide before you start to install your Orphek Atlantik V2 Wireless 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.
**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.

**More Tips for Injury Prevention**

1. Test if your electricity is operating correctly in the area installed and switches it off before installing your Orphek Atlantik V2 Wireless.
2. Ensure equipment, tools and equipment are in good operating condition.
3. Never use equipment, tools or equipment that are in disrepair or not properly maintained.
4. Ensure electrical components (switches, resistors, capacitors, inductors, transistors, etc.) are appropriate for the circuit or apparatus.
5. Never overload circuits.
7. Never place containers of liquid on electrical systems.
8. Ensure to turn off the power supply first before disassembling the circuit.
9. Use only tools and equipment with non-conducting handles when working on electrical devices.
10. Never use metallic pencils or rulers, or wear rings or metal watchbands when working with electrical equipment.
11. 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.
12. 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.
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 craft knife or edged tool – it may damage your 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 V2 Wireless 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 V2 Wireless 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.

Safety Instructions for Installing your Orphek Atlantik V2 Wireless
1. 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). 2. Double check if the mounting option is well installed to avoid personal injuries or to
avoid dropping/breaking your unit(s). 3. 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. 4. Carefully examine your Orphek Atlantik V2 Wireless after installation and before you plug it into the GFCI and wall outlet. 5. 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. 6. 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 travelling 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. 7. 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. 8. Ensure the unit(s) is securely installed before supplying power to the unit. 9. DO NOT use any form of alcohol or solvent to clean your Orphek Atlantik V2 Wireless. 10. Never place any objects or instruments on top of your unit(s) ordinances. 11. Do not pull or cut the cord.

Safety Instructions for Storing your Orphek Atlantik V2 Wireless
Improper storage will damage temporarily or permanently your Orphek Atlantik V2 Wireless unit(s) (Please check for our warranty policies before storing your Orphek products) Please keep the original package(s) to store the unit(s).
1. Please store your unit(s) placed on a plain surface. 2. Do not place any heavy object or heavy packages on your unit(s) package(s). 3. 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. 4. Do not store your unit(s) in a wet or humid place or exposed to dust. 5. Do not store your unit(s) in a
place close to children or animal reach. 6. Do not store your unit(s) close to any kind of chemical or corrosive liquids, cleaning products, bleach, pool cleaning or maintenance product, etc…

**Safety Instructions for Cleaning your Orphek Atlantik V2 Wireless**

Improper cleaning will damage temporarily or permanently your Orphek Atlantik V2 Wireless unit(s) (Please check for our warranty policies before cleaning your Orphek products)

1. Do not clean your unit(s) when turned on. 2. Do not apply excessive wiping pressure or your body weight on the unit(s) to clean it (them). 3. Do not use dirty, abrasive or linty cloths. 4. Do not use any alcohol except isopropyl alcohol. 5. Do not use any cleaners, such as acetone, which contain ketones, as they will destroy the acrylic and the metal surfaces. 6. Do not use ammonia-cleaning products. 7. Do not use metal or any kind polishing to clean your unit. 8. Do not allow liquid to run into the air exits (fans) or inside the metal grill. 9. Do not use sponges to clean your unit(s), they will scratch the surfaces and damage it. 10. Do not use sharp tools in attempt to clean your unit(s).

**How to clean your Orphek Atlantik V2 Wireless**

1. Read the special considerations above. 2. Turn your unit(s) off and allow it (them) to cool. 3. Make sure your cloth is dry, clean and free of any grit before starting. 4. Using light pressure wipe the acrylic surfaces to evenly remove any humidity or dust. 5. Be very careful when cleaning the bottom side where the LEDs are placed! Do not turn the unit(s) to clean. 6. If possible uninstall each and every unit before cleaning. 7. Wipe gently and **do not overwork or apply excessive pressure** to avoid damaging the LEDs. 8. Finally clean the edges and corners by lifting any dust or debris onto the cloth or use a clean soft brush. 9. Do not pull cords while cleaning your unit(s).

Remember: Keeping your units clean is very important to keep your Orphek Atlantik V2 Wireless running well, but over or unnecessary cleaning may cause temporarily or permanently damage! So don’t over do it!
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Getting Started

1 Turning on the unit for the first time

After carefully reading the safety guide and following its procedures you are all set to plug on your unit for the first time. A blink of light will shortly appear and all the LEDs will be in off mode. Once you have switched on the unit move to the installation of the program as follows:

2 Checking your Wi-Fi connection

**IMPORTANT:** To install and use Orphek’s operational system you must have an Internet connection! Please go to settings in your android and turn Wi-Fi to ON as shown in the pictures:

![Wi-Fi settings](image)

![Wi-Fi on](image)
3 Downloading Orphek App

Please enter to Orphek Atlantik product website page
http://orphek.com/orphek-atlantik-v2-wifi/ to download the
program. Go to download folder in your android tablet or mobile:

Inside your download files you will find Orphek App.
Click on the App. to start installing the program.
The next screen will ask if you want to install the application.
Please click on the option INSTALL.

Please wait until the installation is completed. Once it is completed the next screen confirming installation should appear. Please click on OPEN if you wish to open the program at this moment. If not, click DONE.
If you don't want to open the program and you have clicked the option DONE an Orphek App (with logo) should be displayed in your desktop screen:

To open the Orphek App just click on the logo.

OBS: Either by touching the Orphek App or by choosing OPEN at installation, Orphek’s first screen should open to start the program.

Before setting up the unit you will need to set a wireless connection of the Android tablet/mobile to your Atlantik unit.
4 Set Ups

4A How to set a wireless connection of the Android tablet/mobile to the Atlantik unit

**IMPORTANT:** The first step to set up the connection is to turn on your unit. Once you have completed this step please enter to settings in your Android tablet/mobile. At settings please enter to Wi-Fi settings. The `wifi-socket` name should appear in your listed Wi-Fi connections.

![Wi-Fi settings](image)

Please click on `wifi-socket` to connect it to the wireless network and to move to the next screen.
In the next screen please click on the CONNECT button. Once the wifi-socket wireless connection is connected go to Orphek App.

OBS: The wifi-socket name will appear in your wi-fi connection list only when your unit is turned on.

YOU ARE NOW READY FOR AN ORPHEK EXPERIENCE!
4B Starting Set up for one unit

Click on the Orphek App to enter to the program again. The first Orphek screen should appear to you:

Once the first screen has appeared the next screen should open in seconds automatically. It is the operational system’s home screen.
4B.1 Searching unit
Since it is the first time you are using the program, the unit is not going to be displayed on screen. In this case click on SEARCH ID button and in about 10 seconds unit should be listed on screen. If not, try SEARCH ID button one more time.

4B.2 Organizing your Home Screen

4B.2.1. Changing the name of your light
If you wish to rename your light click on LIGHT. A window should appear with a keyboard. Change the name and click on DONE.
4B.2.2 Changing the date format of your light
At the right side of the screen there is a DATE button, if you wish to alter the format click on it. A window with a menu of 9 options of date formats should appear on your screen. Please click to choose the date format of your preference. It will automatically change it on the main screen.
5 Main menu
To start programming your unit goes to operational home screen and click on SUBMIT button to enter to the programs’ menus: Quick set, Program, Clouds, Feedback.

5.1 Quick set
Quick set will show to your light immediately but ONLY when staying in this page. After leaving the page, the PC card will not remember these settings. Quick set program is used to temporarily lighting of your tank. For example: to feed corals, to take a picture of your tank, to check colors before programming, to measure PAR in different channels, etc.
5.1.1. Understanding the Quick set options

Once you enter to Quick set screen you will see at the bottom of the screen 2 buttons displayed: ALL and Light 1. ALL button sets ALL ATLANTIK UNITS. Light 1 button sets ONLY THIS UNIT.

You will also find 5 options for programming your Atlantik unit: ALL and 4 CHANNELS (1,2,3,4). ALL button displayed on top left of the screen is used to set ALL CHANNELS. Channels (1,2,3,4) buttons set EACH of these channels.

In the center of the screen you will find the intensity of light percentage field (from 0 to 100%) and on the right side the +/- scale to set this percentage according to your desire.

5.1.2 Setting the units at Quick set

![Quick Set Screen](image.png)

Click on the ALL button in the bottom of the screen to choose to set all units or on LIGHT 1 button to choose just this unit.
Click on the button for ALL option displayed on the list of channel options if you wish to set all four channels, or choose which channel(s) (1,2,3,4) you wish to program by clicking on the button of each channel.

**Option one:** Touch the button and move it from left to right to increase percentage (increase intensity). Touch the button and move it from right to left to decrease percentage (decrease intensity).

**Option two for fine-tuning:** Touch the (+) button on the right to increase percentage (increase intensity). Touch the (-) button on the left to decrease percentage (decrease intensity).

### 5.1.3 Quick set additional buttons

The button displayed on the top left side takes you back to the Quick set menu. Click on the button if you wish to go back one screen.
Click on the button to have the main menu display on the right side of your screen. The main menu can be used just as the previous main menu.
5B Program
By choosing program in the main menu screen you will be able to set the program for all 4 channels. The PC card will remember all your settings for a month. If you do not make any changes all programs will repeat in month cycle.

5B.1 Understanding Program buttons and functions

Once you enter to Program screen you will see at the bottom of
the screen 2 buttons displayed: ALL and Light 1. ALL button sets ALL ATLANTIK UNITS. Light 1 button sets ONLY THIS UNIT.

Under Program you will find SLOW ACCLIMATION button. This will allow you to choose one of the eight pre-installed programs.

Beside program you will find the DATE button, which allows you to select and set the date of the program.

Your Atlantik V2 Wireless unit comes with 4 channels: channel 1, channel 2, channel 3 and channel 4, as displayed on the screen. You will also find an Illumination Curve for each channel.

**Channel 1** features 8 white UV/violet 18K LEDs (410 nm) and 16 white violet 6.5K LEDs (420-430 nm) and it is tuned to increase levels of chlorophyll A in corals.

**Channel 2** features 4 UV LEDs (410nm), 7 violet LEDs (430nm), 7 wide blue/cyan LEDs (470nm) and 10 royal blue LEDs (450nm) and it is ideal for wide moonlight effects from 380nm to 520nm, color & fluorescence enhancement and lowering the risk of bleaching.

**Channel 3** features 12 white 18K LEDs and it is tuned to increase the general lighting of the tank due to high lumens of the white LEDs.

**Channel 4** features 2 white UV/violet 18K LEDs (410nm), 5 white violet, 6.5K LEDs (420-430nm) and 7 wide red LEDs and it provides full spectrum 380nm to 750nm to highly increase levels of Chlorophyll A, B, C, F and carotenoids.
For more detailed information, spectrographs and photos please enter to our website at:

Buttons: OPEN, SAVE, SEND, RESTORE and RESET are all used to program channels.

SEND button sends the program to the unit.
RESTORE button restore factory settings.
OPEN button opens a new window.
RESET button clears what you have set before.

5B.2 Built-in Programs:
If you wish to use Orphek's built-in programs please click on SLOW ACCLIMATION button. The built-in programs are pre-programmed photoperiods chosen by Orphek staff after years of intensive research involving different wavelengths/spectrums. We have optimized the programs for different types of aquariums and different kind of corals.

Slow Acclimation
Slow Acclimation was designed to be used for coral acclimation to our high intensity Atlantik unit LEDs and/or for introducing new corals into your system that may have come from a different lighting technology and/or different lighting spectrum and lower intensity. Program 1 should always be used when first introducing your new Atlantik unit to your corals.
OBS: The SLOW ACCLIMATION button is also used as default button for the screen menu of the eight built-in programs.

If you wish to stay and set slow acclimation please click on SEND button. The will send the slow acclimation program to the unit. Wait 5 seconds and the unit will operate accordingly.
Increased Growth
This program is designed to increase coral growth rate and is typically used when growing frags or immature coral colonies. Illumination 2 provides occasional cloud cast simulation while the remaining channels simulate changes in spectrum intensity throughout the day, which is typical on the reefs.

Coral Color
This program was designed to increase coral color while still providing plenty of PAR/PUR for good coral growth.

Fast Growth
This program is designed to accelerate growth and/or to be used with mature colonies.

Coral Fragging
This program was designed for shallow coral fragging systems to accelerate coral fragment growth.

Retail Show
This program was designed for retail stores to display their corals giving them a little more iridescence making them more attractive to the buyer while still maintaining the health of the coral.

LPS/ Soft Coral
This program is designed to be used with LPS and soft corals that do not require the light intensity required by SPS corals.

For each program to be set please click on SEND button. The unit will send the slow acclimation program to the unit. Wait 5 seconds and the unit will operate accordingly.
Changing intensities & time

You can also program several of your own photoperiods and adjust intensity of all four channels of light individually. This can be a useful feature in rooms flooded by sunlight or very dark rooms where adjustments in intensity will need to be made. It also allows you to control the lighting based on the types of corals you are keeping.

In this case change the fields on the left:

Click on channel 1 to change the settings of this channel. Move to channel 2, 3 or 4 to change all the other channels' settings.

Change time on the time filed and the intensity on the % field. In all cases click on the SEND button to send the changes to the unit.

**IMPORTANT:** save these changes by clicking the SAVE button otherwise they will not be memorized afterwards.
Once you click on the SAVE button a window will open. Give a name to your customized program (with the changes you have set) and click OK:

5C Clouds
This program will allow you to introduce clouds above your aquarium. It is good for acclimation of new corals when they are placed on the shallower areas of your aquarium. The cloud cast is also intended to give the corals a rest throughout the photoperiod.
5B.1 Understanding Cloud buttons and functions

Once you enter to Clouds screen you will see at the bottom of the screen 2 buttons displayed: ALL and Light 1. ALL button sets ALL ATLANTIK UNITS. Light 1 button sets ONLY THIS UNIT.

This program also offers you 2 options of programming: Strong Clouds and Soft Clouds.

If you choose Strong Clouds: 20% lights of all 4 channels will stay 15 minutes randomly.

If you choose Soft Clouds: 80% lights of all 4 channels will stay 15 minutes randomly.

Time Setting for Clouds: this program can be set from 5:00 to 22:00
After choosing the option and setting the time please click on SEND button to send this program to your unit.

Erasing the program:
If you wish to erase it please click on CLEAR button.

5D Feedback
Orphek wishes to hear from you!
By clicking on FEEDBACK you will enter to our website contact page. This will only work if your unit is connected to a router.
Final Observations

For installation, connecting and programming more than one unit please use the Orphek Atlantik V2 Wireless Advanced Operational & Safety Guide.