REEF FACTORY

| User manual
|
| ver. 1.3

Reef flare Bar

S / M / L

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> **!** IMPORTANT INFORMATION: When the lamp is on, do not look directly at the light source!
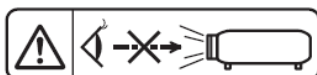
> **!** IMPORTANT INFORMATION: Before setting up and using the device, read the entire manual carefully. In the content of the manual, there may be slight differences between what is presented on the screen of the device and the descriptions in the manual. This manual contains information about the features of a device with the latest firmware version installed. The firmware version is always displayed in the bottom right corner of the screen, below the product serial number. If your firmware version is older, update your device firmware to access the latest features. Apart from the Reef flare Bar itself, the package contains the following elements: a dedicated power supply unit, dedicated fastening system, a magnet that can be used to reset the device and an abbreviated manual.

> **?** Do you need our help? Write to support@reeffactory.com

ATTENTION: UNPACKING

During transportation, protective packaging was used to protect the appliance against any damage. After unpacking, please dispose of all elements of packaging in a way that will not cause damage to the environment. All materials used for packaging the appliance are environmentally friendly; they are 100% recyclable and are marked with the appropriate symbol. Caution! During unpacking, the packaging materials (polythene bags, polystyrene pieces, etc.) should be kept out of reach of children.

ATTENTION: DISPOSAL OF THE APPLIANCE

Old appliances should not simply be disposed of with normal household waste, but should be delivered to a collection and recycling centre for electric and electronic equipment. A symbol shown on the product, the instruction manual or the packaging shows that it is suitable for recycling. Materials used inside the appliance are recyclable and are labelled with information concerning this. By recycling materials or other parts from used devices you are making a significant contribution to the protection of our environment. Information on appropriate disposal centres for used devices can be provided by your local authority

I.   Initial Reef flare Bar lamp configuration

In order to set up the device correctly, follow the steps below.

1. Install the lamp above the aquarium so that it illuminates the maximum area of the tank bottom.

2. If you install the lamp using the dedicated fastening system, assemble it in accordance with the attached instruction. After assembly check whether all elements are screwed together correctly to avoid possible device damage.

3. After installation, connect lamp power supply using a dedicated power supply unit included in the set.

4. The device can be set up via a browser on a computer, laptop, tablet or smartphone. To do so, you'll first need to view the list of Wi-Fi networks available on the device. Then connect to the network with a name corresponding to the serial number of your device, in accordance with the following pattern: **RFLBXXXXXXXXXXXX**. Our device is compatible with 2.4 GHz networks.

5. To log in, enter the following password: **reeffactory**

6. Open an Internet browser on the same device and type the following address in the "website address" field: **www.reefflare.io**

    If you entered the address correctly and you see the following message, it means that a connection with the device couldn't be established, and the connection with your home Internet network (wired or wireless) is still active.

    This domain is used to configure **Smart Reef** device.
    If you see this text it means that you are not logged properly into device Wi-Fi.

    Please connect to the Wi-Fi device only (Wi-Fi password is *reeffactory*) and refresh this page.

    REEF FACTORY

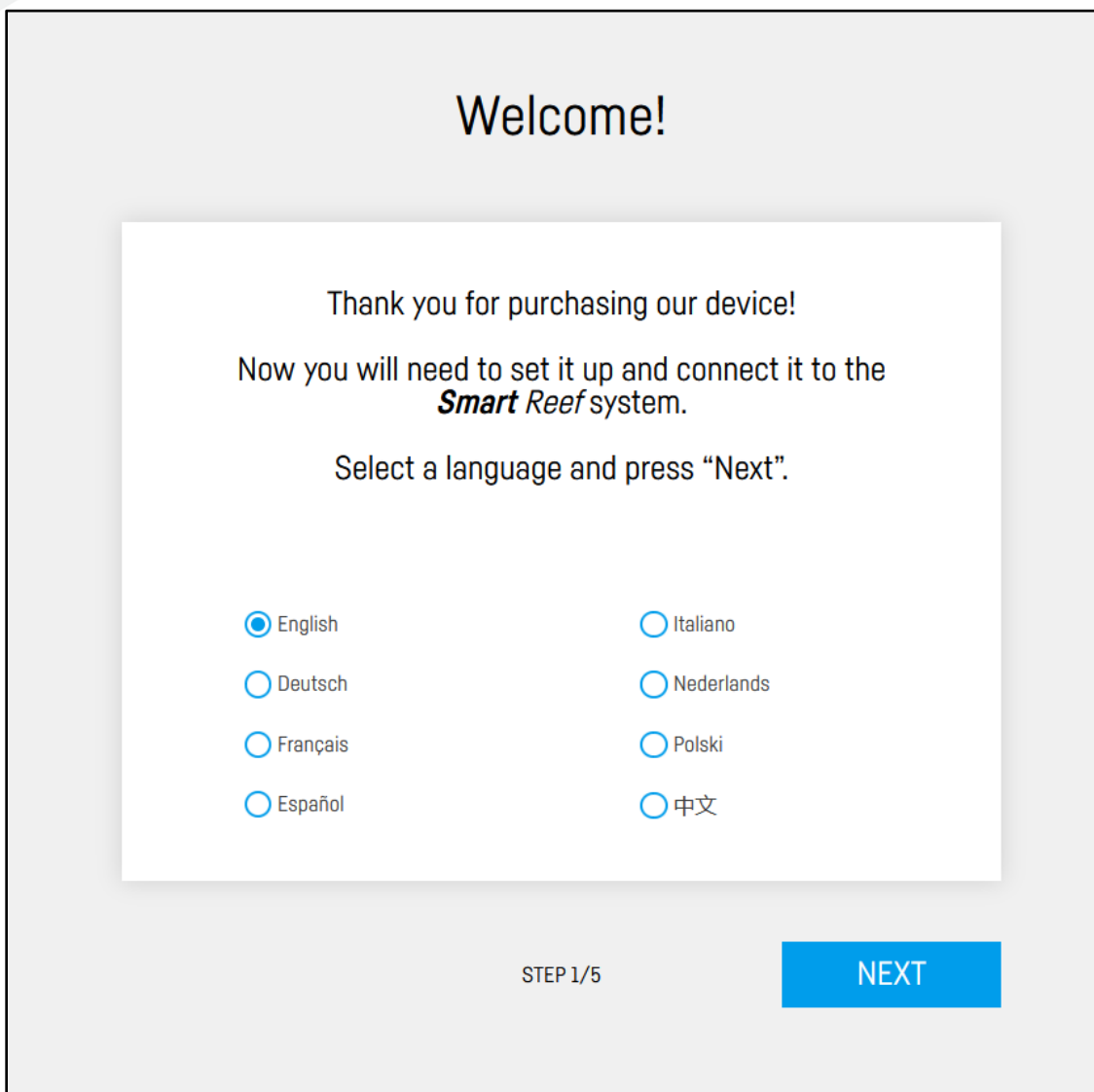   Try to reconnect to the device and repeat the steps described above.

> **!** **Install the lamp over the aquarium so that it illuminates as much area of the bottom of the tank as possible. The lamp should be installed at least 20 cm above the water surface.**

II.   Reef flare Bar operation configuration.

Set up your device in five simple steps..

Step one - choose the language you want to use when operating the device.

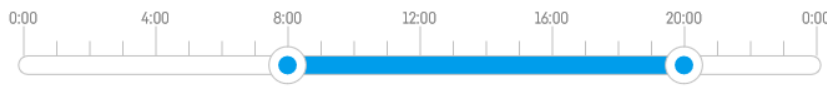**Step two** - set up the lamp operation parameters, set the time and date, set the hour the lamp is switched on and off as well as the white light strength..

Device setup

Select lamp working time: **12:00**
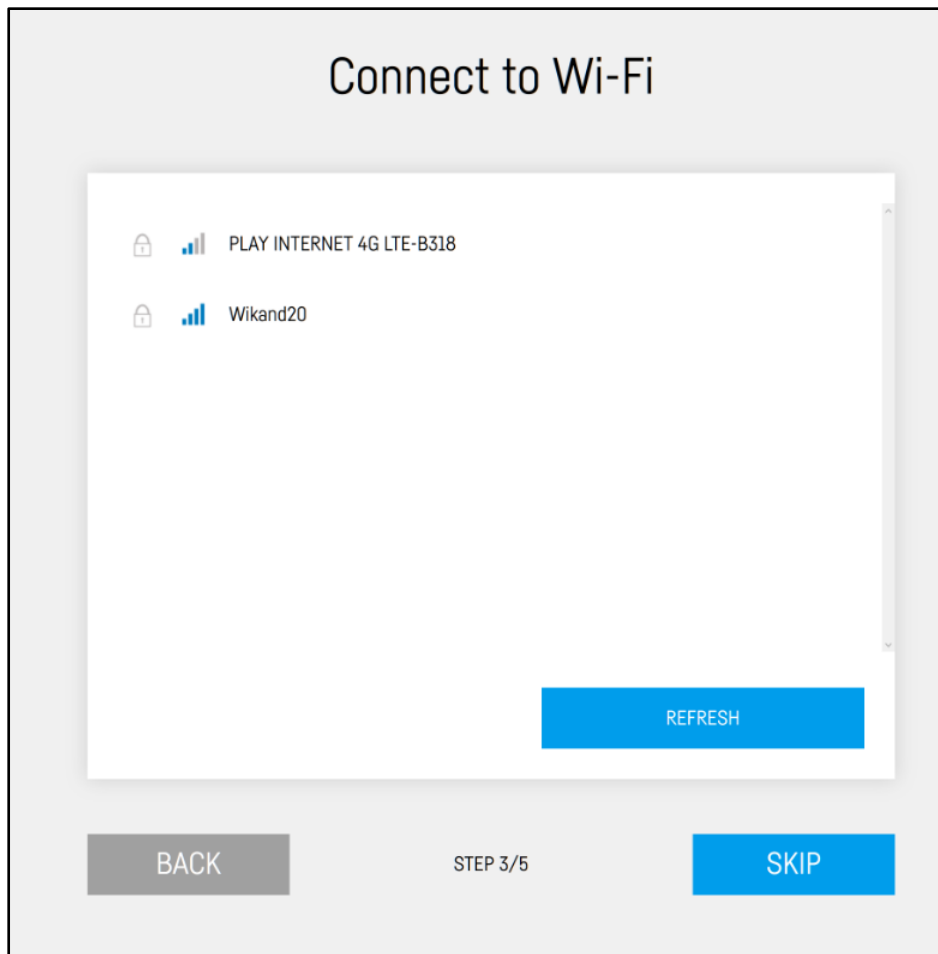(recommended 10-12 h)

| 0:00 | 4:00 | 8:00 | 12:00 | 16:00 | 20:00 | 0:00 |

Set the maximum white light power: **90%**

| 0% | 20% | 40% | 60% | 80% | 100% |

| BACK | STEP 2/5 | NEXT |

Step three - connect the device to your home Wi-Fi network. If the network is secured, enter the password that protects your home network against unauthorized access.
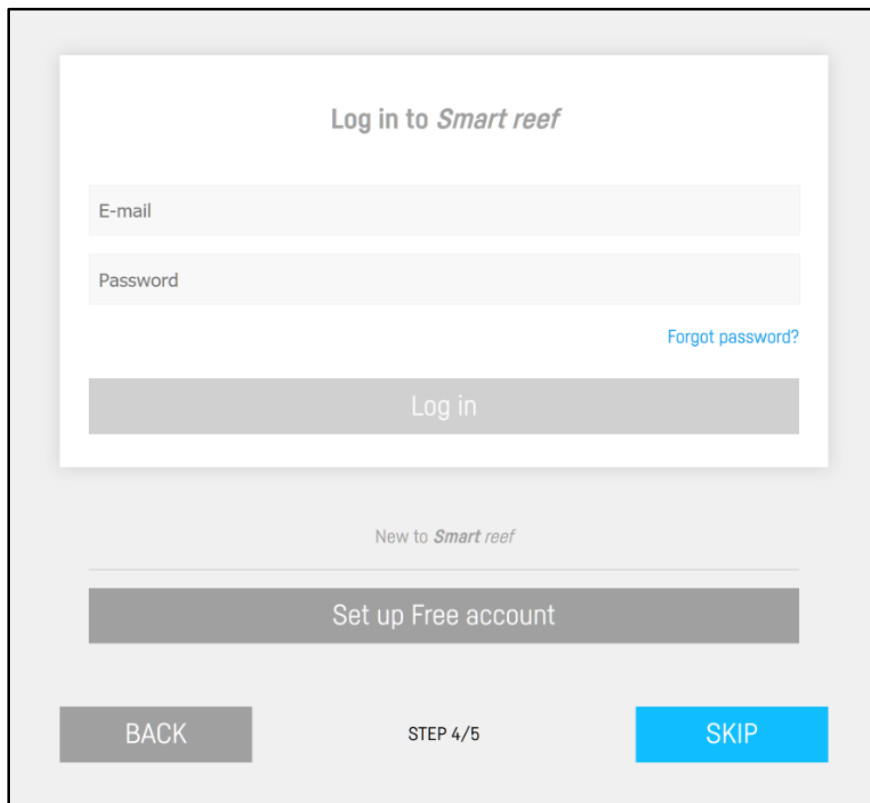

If the device cannot connect to your home Wi-Fi network at first, repeat the procedure. Successful connection may depend on the type of network device you use and its manufacturer. The signal of your wireless network should be as strong as possible. Remember that in order to enable communication with the **Smart Reef** system, the network device which is connected to **Reef flare Bar** needs to have Internet access.

When the **Reef flare Bar** device successfully connects to your Wi-Fi network, its IP number will appear in the upper left corner of the screen. The appearance of the IP number means that everything is alright.
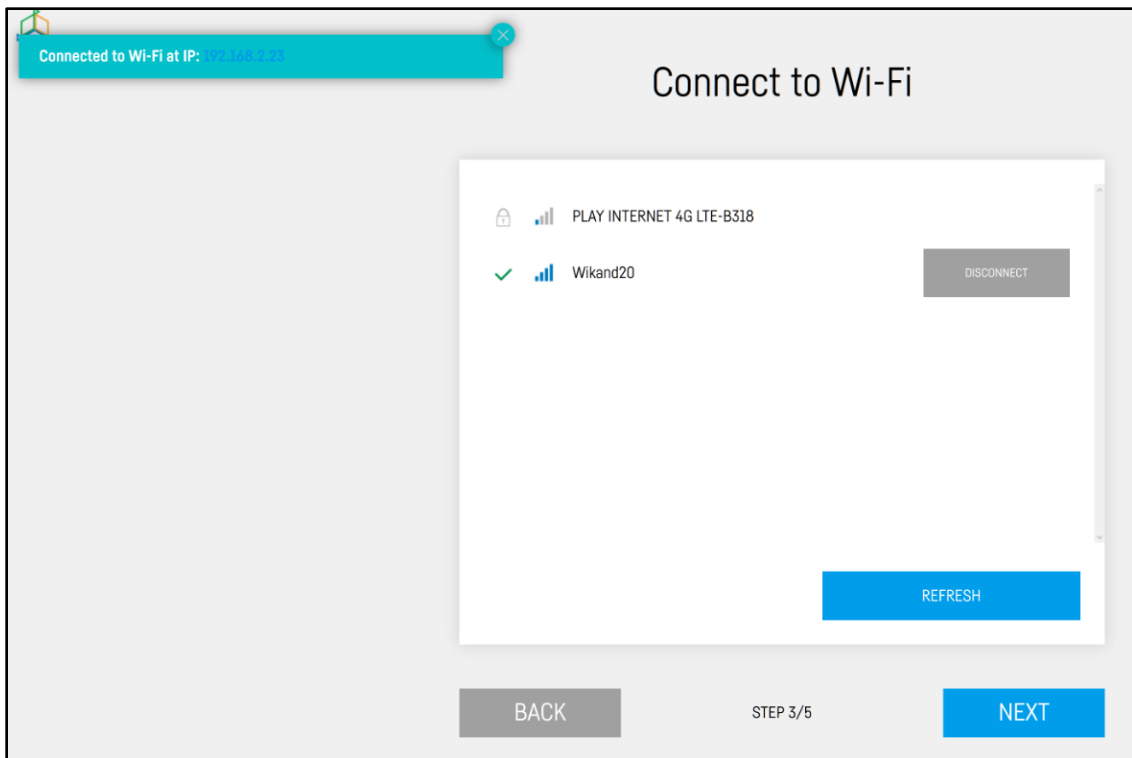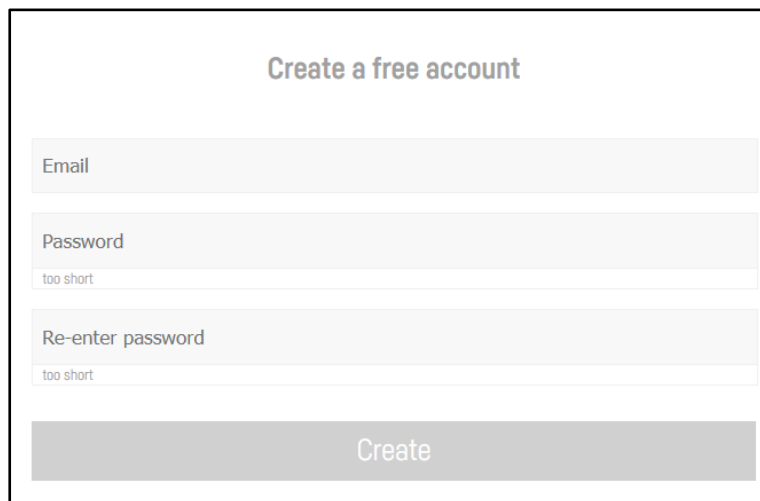
Step four - create a free Smart Reef account by pressing the "Create a free account" button. Please note that in order to do so, you will need to connect to a wireless Internet network and not to the device itself.

If you already have a Smart Reef account, enter your login data to add your new device to the system.

! **Your account password should be appropriately obscure and difficult to crack.**

If you already have a **Smart Reef** account, enter your login data to add your new device to the system. If you don't need to manage your device remotely, you may ignore this step. However, by doing so you will miss out on several additional features, such as access to device updates.

Step five - congratulations, you have successfully set up your **Reef flare Bar**.
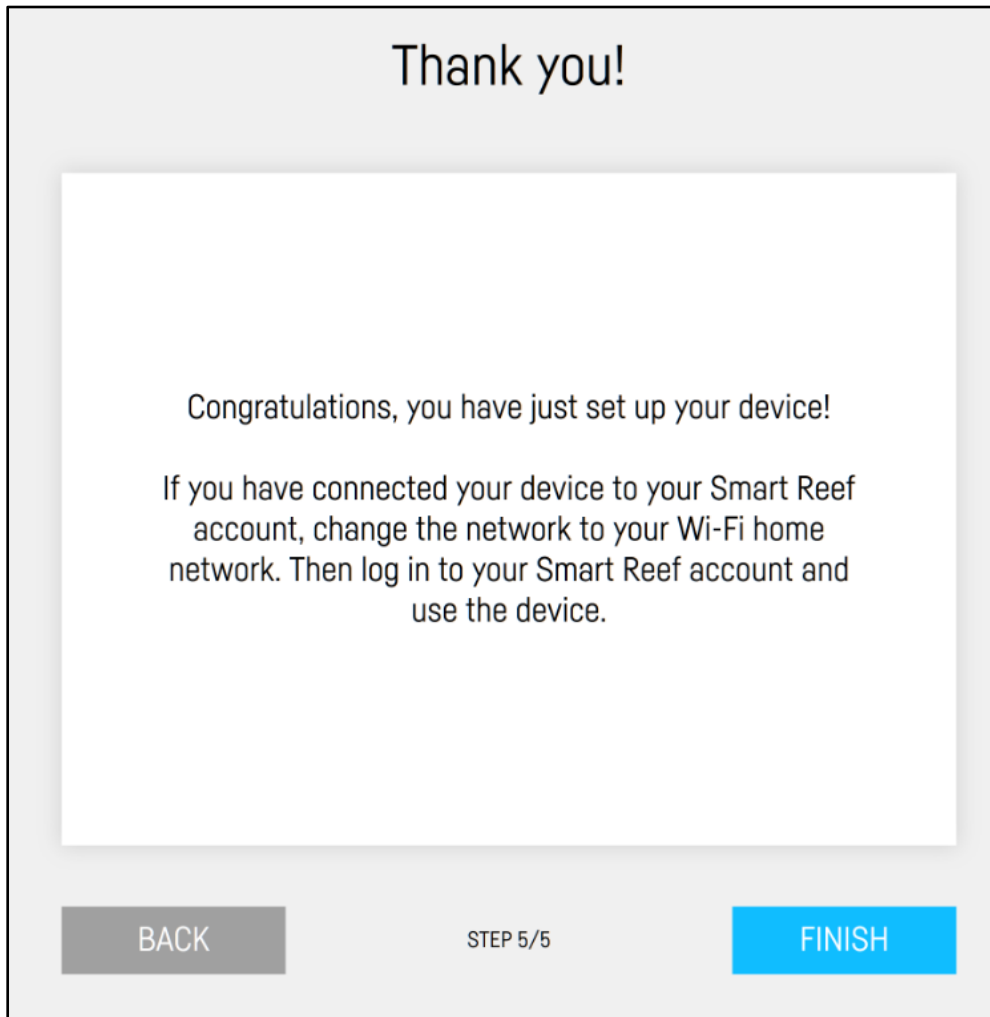
Pay attention to the icons in the upper right corner of the screen. They allow you to set the date and time, change the language, view the history of notifications that the device has registered, contact us and access many other interesting functions that are worth learning about.
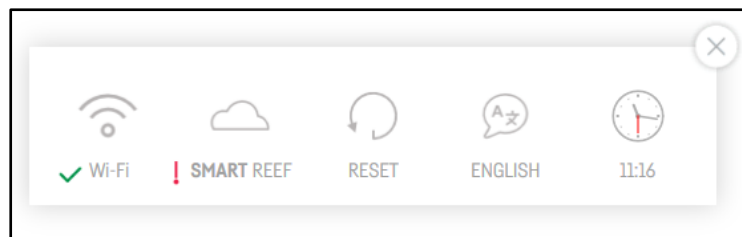
After the setup procedure is finished (after pressing the "FINISH" button), the screen will display the current status of your device as well as additional configuration options such as: Programs, Timer mode and Lamp switch off.

In the upper right corner of the screen you will find a drop-down menu icon. There you can introduce any necessary changes or repeat the device setup procedure. It also contains ad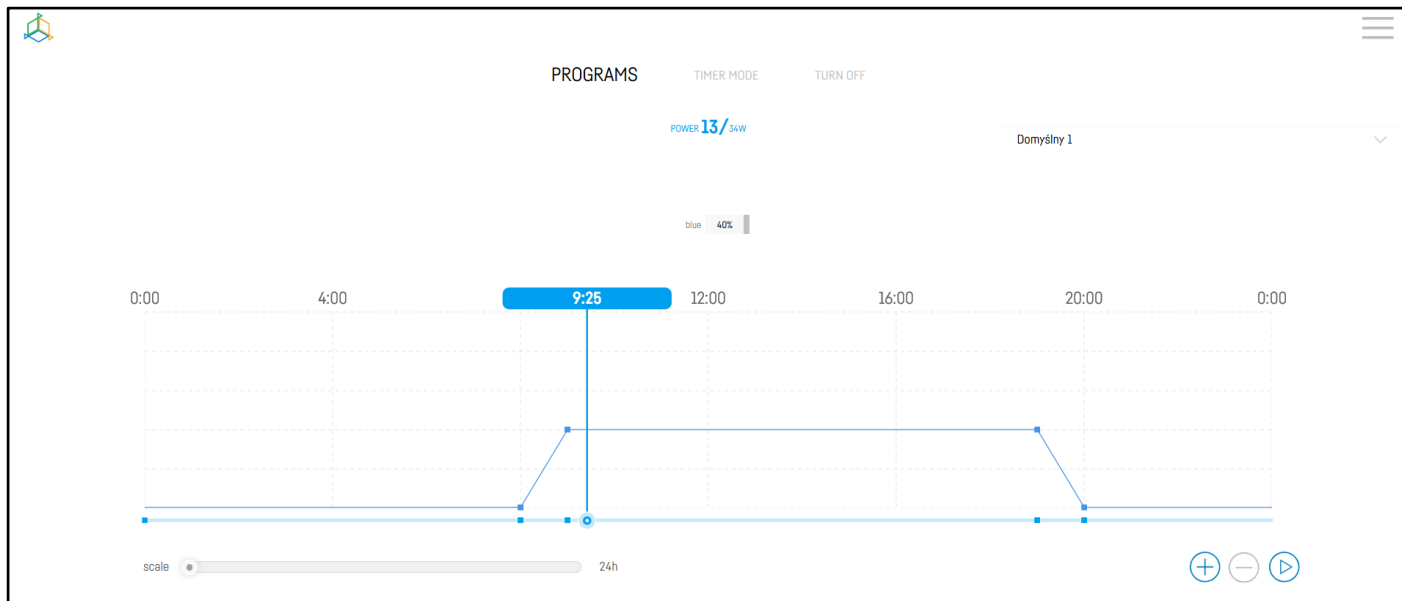ditional functions, including options for Wi-Fi network management, device network password, which protects your device against any unauthorized remote access, **Smart Reef** account management, time and date setting, language selection and the possibility to restore your device to default settings. Moreover, the icons indicate the current status of connection to your wireless network and to the **Smart Reef** system.
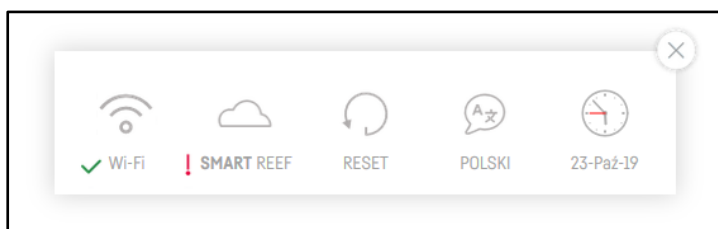
The ✓ symbol means that the connection is OK, while the ! symbol means that there is no connection.

III. Reef flare Bar operation mode.

As a default, the lamp is programmed to emit the light spectrum corresponding to the natural day and night cycle. The user may change these parameters by using additional functions described below:

- PROGRAMS – makes it possible to set the switch on and switch off times. It is also possible to regulate light intensity. After setting the lamp operation parameters remember to save them by adding your program (function available in the upper right part of the screen). You can create many lamp operation presets and save or load them anytime you like. You can also export your settings (for instance to share them with another person) or import other settings (for example settings exported by other users).

The image above shows a view of the lamp set up process in the PROGRAMS mode. From bottom to top, we have the following functions:

- scale - extends or narrows the time scale in order to fine-tune the lamp.
- the ⊕ button makes it possible to set individual light colors and light intensity on a timeline, while the ⊖ button can be used to remove light colors entered earlier.
- The last button ▷ launches the simulation of your daily lamp configuration.

To get the hang of it, test all the lamp functions described above. This way, it will be easier for you to create the best setup modes for your aquarium.

- **TIMER MODE** – in this mode you can set the lamp to operate for a specified time with individual settings. After this time, the lamp will return to the PROGRAMS mode and will operate in accordance with the specified schedule. On the right-hand side of the screen there is an active time counter that shows how much time is left until the TIMER MODE ends. The timer mode was developed with aquarists and their animals in mind. It makes it possible to return to the previously programmed lamp settings after the specified time. A lamp that does not return to the programmed state and operates continuously may negatively influence the health of animals. The timer mode also allows you to save your presets, just like in the PROGRAMS mode. This mode may be also used to temporarily change the lamp operation settings, for instance to take photos. During the photo shoot, you may load a preset you prepared earlier and set the time after which the lamp automatically returns to the previously planned operation mode.
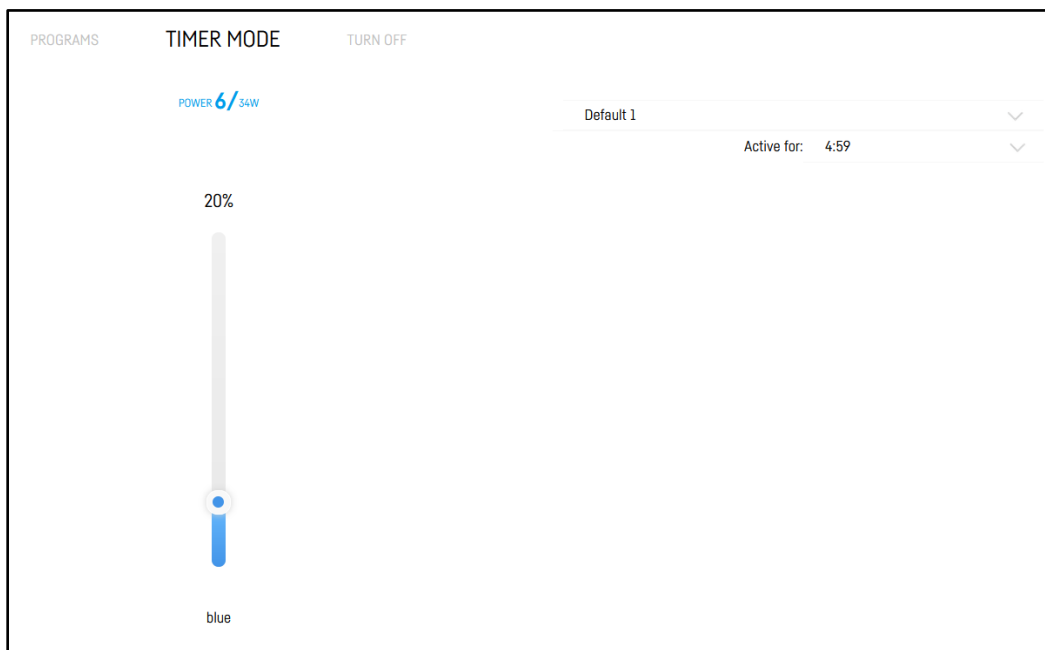
At any moment you can choose to extend the operation time by opening the drop-down menu.
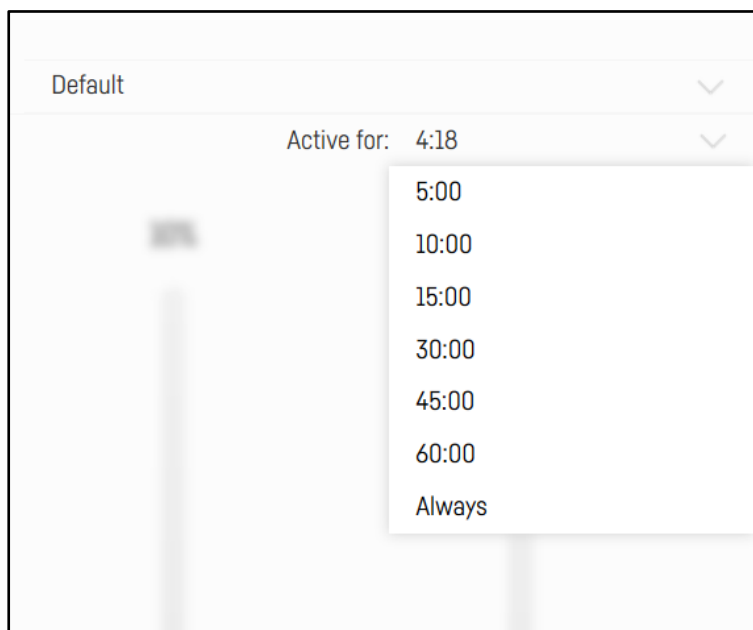
- DISABLE – in this mode the lamp is disabled.
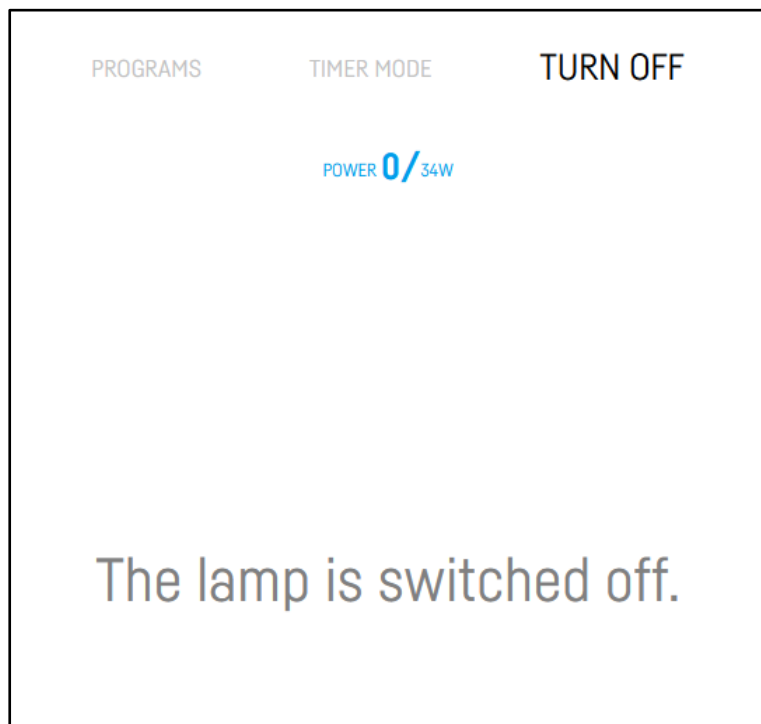
IV.   Reseting the device.

If your device does not work properly, or you want to repeat the setup procedure, or you cannot connect to it despite several attempts, you may restore it to its default settings by placing a magnet (included in the package) on the housing in the place shown in the picture at the beginning of this manual.

1 - place the magnet here to reset the device
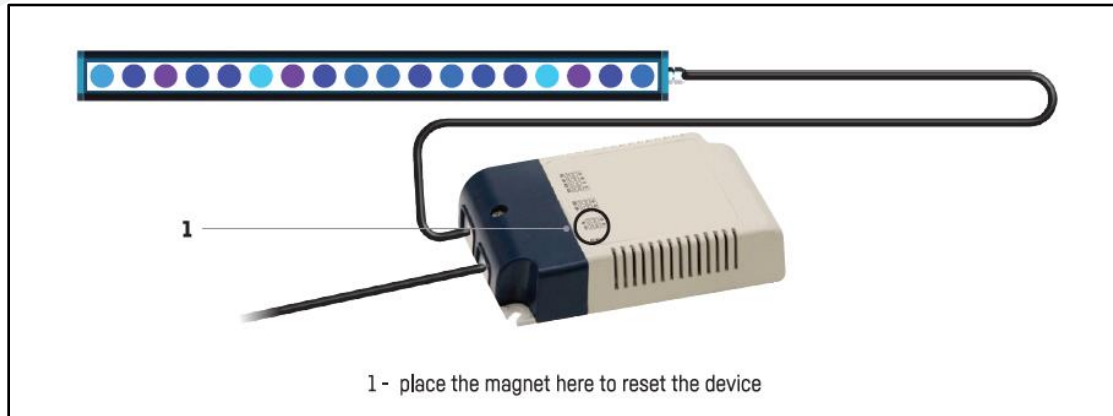
> **?** Place the magnet in the indicated place near the **Reset** sticker.

V.   SMART Reef System.

Connect to your Internet network via a computer or a mobile device. Next, go to www.reeffactory.com and log in to your **Smart Reef** account. Check, if your device has been properly added to the list of your devices.

You can change its name and assign it to one of your aquariums. The serial number of your device and its firmware version are displayed in the lower right corner of the screen.

Our devices are SMART; therefore, we constantly improve them. From time to time, you will receive information about firmware updates that will make your device work even better.
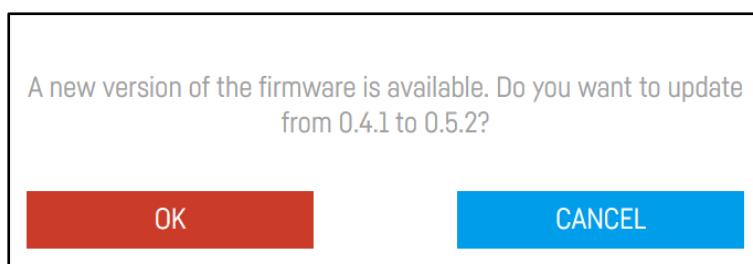
By pressing the OK button you will start the automatic device update process.
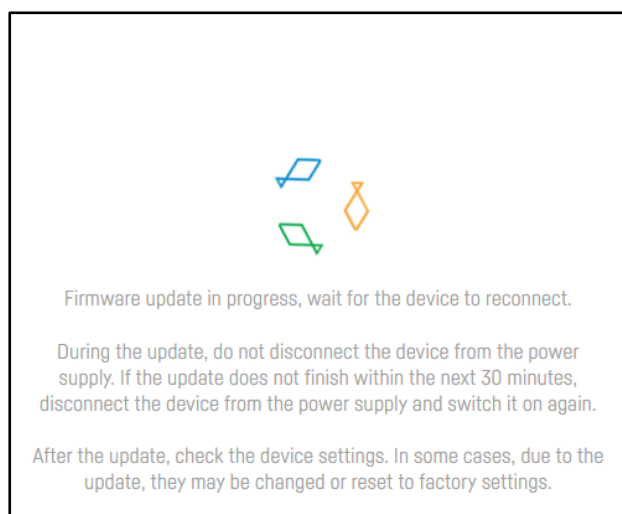
> **?** **Additional and up-to-date information about the device, its operation and setup can be found at our website www.reeffactory.com, in the relevant product tab.**

VI. Technical problems and possible causes of their occurrence.

The table presents problems that you may encounter while using the device, together with a suggestion of how to eliminate them yourself.

? Problem	! Possible cause	Solution
The device does not power on and does not broadcast Wi-Fi signal	No power	Check if the power cord is properly connected to the socket. Then, use the magnet to bring the device to the factory settings. Check if the problem has been resolved.
Can't log in to the device	No direct connection between the lamp and your phone/computer	Check if your computer or phone is connected to the device's network. Sometimes it automatically connects back to your home network. Check if the problem has been resolved.
The device is not visible in the Smart Reef	The device has not been properly connected to your home network or is not logged in to the Smart Reef	Log in to the device and check if the Smart Reef and Internet status icons are displaying that the device is properly connected. If they are not, please log in to your account or connect the device to your home network.
The device loses the connection to the Smart Reef	The range of your home network is not sufficient	Remember, that your home network can have different signal strength in different rooms. It could be too low in the vicinity of the device. Try to move the device closer to your router or use a repeater to extend your home network range in the area. Check if the problem has been resloved.
The device does not broadcast Wi-Fi or you can't log into the device.	The device may require factory reset	Put the magnet against the designated spot marked with the RESET sticker. Wait for 5 seconds and then try to find the device's network on the list. Connect with the device.

! If the above methods have not worked, please contact us and describe your problem by writing to support@reeffactory.com. Additional and up-to-date information about the device, its operation and setup can be found at our website www.reeffactory.com, in the relevant product tab.

REMEMBER: Never repair the device yourself unless you have the right expertise and experience. The device is powered by voltage ranging from 110 to 230 V, and working with live devices may cause electric shock, loss of health or even life.
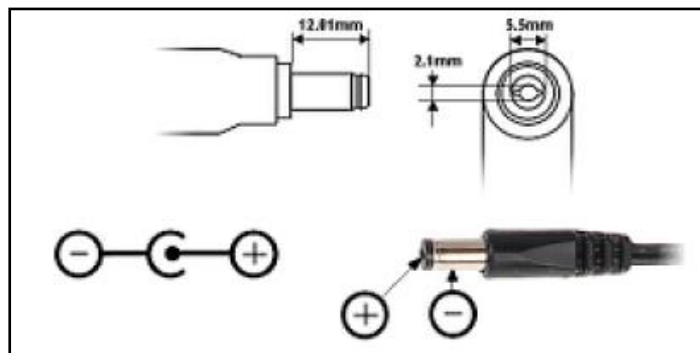
VII. Dedicated power adapter - user guide

1. Make sure to connect the power adapter first to the device and next to power supply.

2. The power adapter is supplied from the grid. There is a risk of electric shock. Do not remove the power adapter housing yourself!

3. There is a risk of fire or electric shock. Leave the power adapter vents exposed to enable natural air circulation and protect the device from foreign objects or liquid spillage.

4. Using a wrong DC plug or forcing the DC plug into an electronic device may cause damage to the device or its malfunction.

5. Desktop power adapters should be placed on a stable surface. Falling can lead to permanent damage.

6. Do not place power adapters in high humidity locations or near water.

7. Do not place power adapters in high ambient temperature locations or near sources of heat or fire.

8. The output current and output power must not exceed the rated values provided in the specification.

9. Disconnect the device from power supply before cleaning. Do not use liquid or aerosol cleaners. Only use a damp cloth for wiping.

10. To dispose of this product, contact a local licensed recycling company. Do not dispose of your power adapter with mixed municipal waste.

The table below lists the power adapters dedicated for our devices along with the models and names of the devices they can be used with.

Power adapter model	Power adapter parameters	Power adapter specification	List of compatible devices
TPS-1201000ZZ	Plug power adapter 12 V 1 A DC	Input voltage: 100-240 V AC Operating frequency: 50-60 Hz Maximum input current: 0.6 A Output voltage: 12 V DC (11.4-12.6 V) Output current: Max. 1 A Input connector type: DC 5.5/2.1	1. Level sensor * 2. Thermo view * 3. pH meter Plus * 4. TDS meter Plus * * First generation devices were powered by a 3.3 V 2 A power adapter. Before purchasing a power adapter, contact us to find out which power adapter is suitable for your device.
TPS-1202000ZZ	Plug power adapter 12 V 2 A DC	Input voltage: 100-240 V AC Operating frequency: 50-60 Hz Maximum input current: 0.6 A Output voltage: 12 V DC (11.4-12.6 V) Output current: Max. 2 A Input connector type: DC 5.5/2.1	1. Dosing pump 2. Dosing pump Pro 3. Dosing pump X3 4. Salinity guardian
TPS-1204000ZZ	Plug power adapter 12 V 4 A DC	Input voltage: 100-240 V AC Operating frequency: 50-60 Hz Maximum input current: 1.2 A Output voltage: 12 V DC (11.4-12.6 V) Output current: Max. 4 A Input connector type: DC 5.5/2.1	1. Dosing pump Large
GST120A24R7B	Desktop power adapter 24 V 5 A DC	Input voltage: 85-264 V AC Operating frequency: 47-63 Hz Maximum input current: 1.4 A Output voltage: 24 V DC (23.8-25.2 V) Output current: Max. 5 A Input connector type: R7B 4 PIN	1. Reef flare S 2. Reef flare Pro S
GST220A24R7B	Desktop power adapter 24 V 9.2 A DC	Input voltage: 85-264 V AC Operating frequency: 47-63 Hz Maximum input current: 1.7 A Output voltage: 24 V DC (23.8-25.2 V) Output current: Max. 9.2 A Input connector type: R7B 4 PIN	1. Reef flare M 2. Reef flare Pro M 3. Reef flare L

GST280A24R7B	Desktop power adapter 24 V 11.67 A DC	Input voltage: 85-264 V AC Operating frequency: 47-63 Hz Maximum input current: 2.0 A Output voltage: 24 V DC (23.8-25.2 V) Output current: Max. 11.67 A Input connector type: R7BF 4 PIN	1. Reef flare Pro L
GST280A24R7B	Desktop power adapter IDLC-45A-500	Input voltage: 90-295 V AC Operating frequency: 47-63 Hz Maximum input current: 0.16 A Output voltage: 35-50 V Output current: Max. 0.5 A Input connector type: N/A	1. Reef flare Bar S 2. Reef flare Bar M
GST280A24R7B	Desktop power adapter IDLC-45A-1050	Input voltage: 90-295 V AC Operating frequency: 47-63 Hz Maximum input current: 0.4 A Output voltage: 16.8-24 V Output current: Max. 1.05 A Input connector type: R7BF 4 PIN	1. Reef flare Bar L

DC 5.5/2.1 connector:

R7B and R7BF connector: