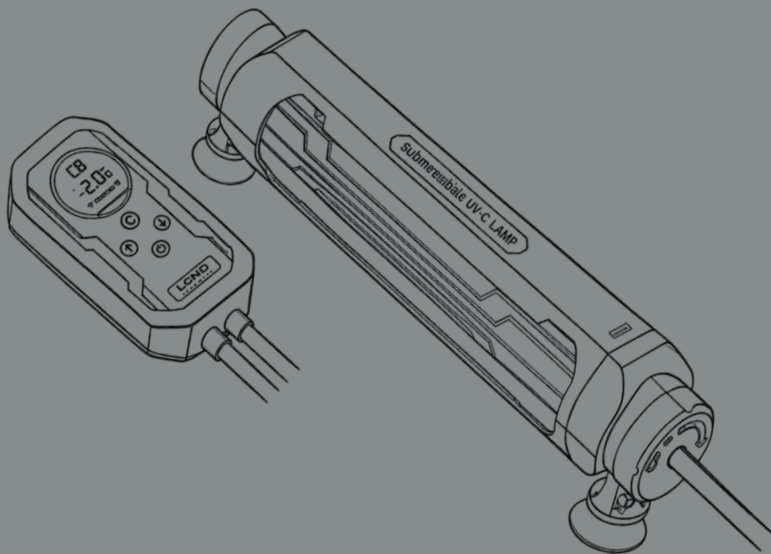
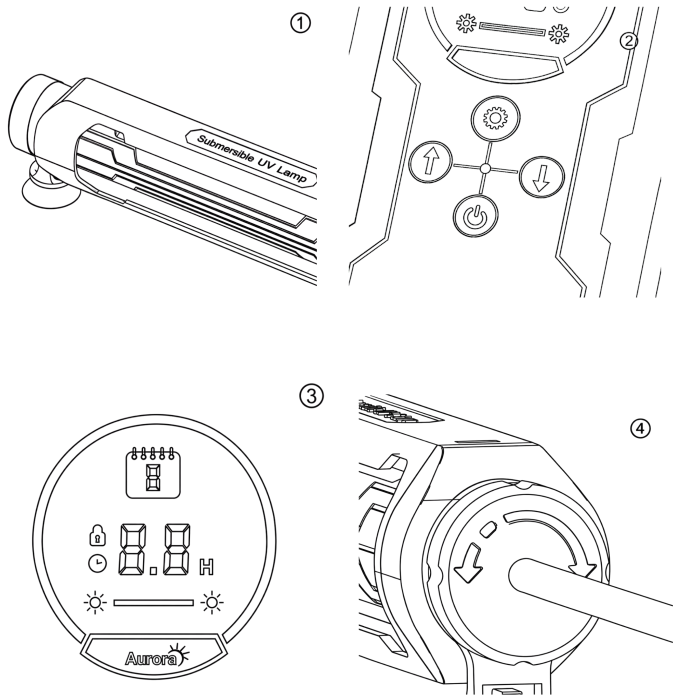




# AURORA

Submersible UV-C Lamp

## INSTRUCTION MANUAL



① Sterilising Lamp Unit    ② Control Buttons    ③ Display Screen    ④ Adjustment Knob

Programmable Submersible UV-C Sterilising Lamp

**SUBMERSIBLE UV-C LAMP**

# SUBMERSIBLE UV-C LAMP

## Aurora Sterilising Lamp

The LGND UV-C sterilising lamp has been tested and inspected to ensure safe and reliable performance. To prevent unnecessary injury or damage caused by improper operation or maintenance, please read and understand these instructions carefully before use. Keep this manual for future reference.

## Product Features

- Adjustable Healthy and High-Efficiency operating modes
- Timer and interval-day settings
- UV wavelength designed for aquarium sterilisation and algae control
- Effectively destroys harmful microorganisms and helps prevent disease
- Purifies the water and inhibits algae growth
- Made with high-grade quartz glass for more effective sterilisation
- Designed for submerged sterilisation
- Compact, detachable design
- UV-resistant housing and waterproof construction for long-lasting durability
- New Submersible Waterproof Design

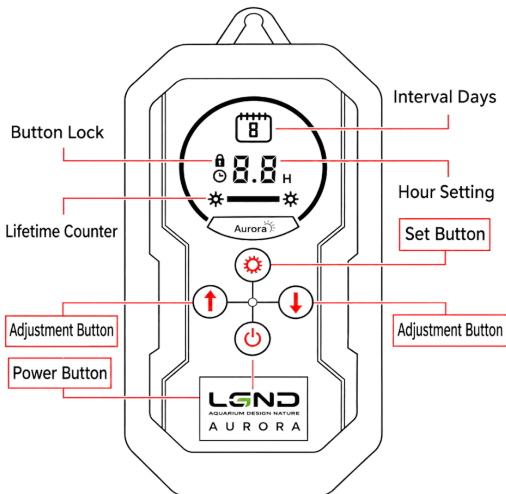
| Model NO. | Voltage          | Consumption(w) | Tank Volume |
|-----------|------------------|----------------|-------------|
| 5W-U1S    | 220-240v 50/60Hz | 5w             | 30-200L     |
| 11W-U2S   | 220-240v 50/60Hz | 11w            | 200-1000L   |

## New Submersible Waterproof Design

The integrated silicone waterproof end cap provides multiple seals around the lamp tube, offering excellent waterproof performance while allowing easy assembly and disassembly.

Compared with conventional rigid-plastic end caps, the new silicone waterproof end cap is more resistant to ultraviolet radiation. Its flexible material is also less likely to become damaged if knocked or impacted.

Rigid-plastic end caps can crack after prolonged exposure to ultraviolet radiation. This not only affects their appearance but can also compromise safety and make the product unsuitable for continued use.



## Operating Instructions

### Power Button:

After the sterilising lamp is connected to the power supply, the Power button indicator illuminates.

Press the Power button: the indicator turns off, the display illuminates and the lamp begins operating.

Press the button again to switch the lamp off; the display turns off and operation stops.

## Set Button

1. Press the Set button. The hour value will flash. Use the adjustment buttons to set the operating time. The time can be adjusted in 30-minute increments, from 0 to 8 hours per day.

2. Press the Set button again. The interval-day value will flash. Use the adjustment buttons to select an interval from 0 to 8 days

- When set to 1, the sterilising lamp operates every other day for the selected number of hours.
- When set to 2, the sterilising lamp operates every third day for the selected number of hours.

3. Press the Set button again to save the settings.

## Button Lock

Press and hold the Set button to lock or unlock the controls.

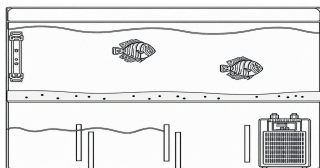
When the controls are locked, the lock symbol remains illuminated on the display. The symbol is not displayed when the controls are unlocked.

## Lamp-Life Indicator

The lamp-life indicator contains six segments. One segment turns off after each one-sixth of the lamp's service life has been used. When the lamp reaches the end of its service life, all remaining segments flash as a replacement reminder.

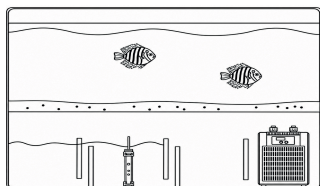
## Installation and Use

(Fig. A) Aquarium Installation



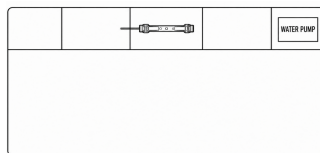
The sterilising lamp must be installed in a filter chamber that remains filled with water at all times.

(Fig. B) Sump Installation



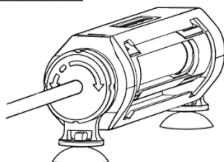
The sterilising lamp must be installed in a filter chamber that remains filled with water at all times.

(Fig. C) Overhead Filter Installation

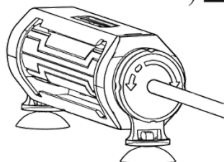


The sterilising lamp must be positioned horizontally inside the overhead filter chamber.

 **High-Efficiency Mode**



 **Health Mode**



## General user instructions

### Information on using the operating manual



- Before using the appliance for the first time, the operating manual must be read fully and understood.
- Consider the operating manual as part of the product and keep in a safe and accessible location.
- Enclose this operating manual if passing the appliance on to a third party

### Symbol explanation

The following symbols are used on the appliance.



The symbol indicates imminent danger from UVC radiation that can result in injury to skin and eyes.



The symbol indicates imminent danger from UVC radiation that can result in injury to skin and eyes.

**IPX4**

The symbol indicates that the appliance is protected against splashing water from all directions.



Store the appliance in a frost-proof place



The appliance is certified according to the relevant national regulations and directives, and conforms to EU standards

The following symbols and signal words are used in this operating manual.



**DANGER!**

Risk of serious personal injury or death from a general source of danger



**DANGER! Electric shock!**

Danger of electric shock with the risk of serious personal injury or death.



**DANGER! Mercury poisoning!**

The symbol indicates imminent danger that can result in a health hazard.



**WARNING!**

Danger of serious personal injury or health hazard.



**WARNING! UV radiation!**

The symbol indicates imminent danger from UV radiation that can result in injury to skin and eyes.



**CAUTION!**

Note on the risk of material damage



Note with useful information and tips.

## Fig. A Note on the risk of material damage



Note with useful information and tips.

## Application

The appliance and all parts included in the scope of delivery are intended for private use and must only be used:

- to disinfect aquarium water
- in compliance with the technical data

The following limitations apply to the appliance:



- never operate the UVC lamp outside of the housing and never use it for other purposes.
- do not use for commercial or industrial purposes
- do not pump caustic, inflammable, aggressive or explosive substances, salt water or drinking water
- do not use in swimming ponds
- the water temperature may not exceed +35°C
- never operate without a water flow
- avoid placing in direct sunlight

## Safety

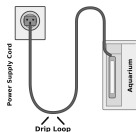
Risks for persons and property can arise from this appliance if the appliance is improperly used or not used as intended or if the safety instructions are not heeded.

### For your safety



- Do not let the appliance packaging and small parts get into the hands of children or people who are unaware of how to handle them, as hazards can arise (danger of suffocation!). Keep away from animals.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are under the supervision of someone responsible for their safety or have received instruction on usage of the appliance from said person. Children should be supervised to ensure that they do not play with the appliance.
- Only for European markets:
- This appliance can be used by children from the age of 8 and by persons with reduced physical, sensory or mental capabilities or lack of experience and/or knowledge if they are supervised and have been instructed in the safe use of the appliance and have understood the resulting dangers. Children must not play with the appliance. Cleaning and user maintenance must not be carried out by children unless they are supervised.
- Before use, carry out a visual inspection to ensure that the appliance, especially the mains cable and plug, are undamaged.
- Do not use the appliance if it is not working properly or is damaged.
- Do not pull or carry the appliance at the mains cable. Pull on the plug and not on the cable or appliance in order to disconnect from the power supply.
- Protect the mains cable against heat, oil and sharp edges. If the connection cable has been laid in the ground or in gravel without an empty conduit, it must not be possible to step on it.
- The mains cable of the appliance cannot be replaced. If the mains cable is damaged, the appliance must be scrapped.
- Only carry out the work described in these instructions.
- Never make technical modifications to the appliance.
- Only use original spare parts and accessories for the appliance.
- Repairs must only be carried out by an LGND service centre.
- Do not expose the appliance to temperatures below +4°C or over +35°C
- Avoid placing in direct sunlight.

-  The electrical installations must comply with the international and national erection specifications.
- The appliance must be protected by a residual current protection appliance with a maximum rated residual current of 30 mA.
- Immediately disconnect the appliance from the power supply if the residual current protection device trips.
- Unless it is being used, disconnect the appliance before you install or remove any parts and before all cleaning and maintenance work on the power supply.
- Protect the mains socket and mains plug against moisture and wetness. A drip loop must be formed with the mains cable. This prevents any water running to the mains socket, which would result in a short-circuit.
- The electrical data of the appliance must match the data of the power mains.
- This data is found on the type plate, the packaging and in these instructions.
- According to VDE, the appliance's safety distance from the water must be at least 2 m.
- Only connect the appliance to a correctly installed protective contact mains socket.
- Mains connection cables must not have a smaller cross-section than rubber hose lines with the abbreviation H05RN-F3G0,75. Extension cables must meet the requirements of DIN VDE 0620.
- Extension cables and power distributors must be suitable for outdoor use (protected against splashing water).



-  Never operate the UVC lamp outside the appliance. Unintended use of the appliance or damage to the housing may result in the emission of dangerous UVC radiation. UVC radiation can cause injury to eyes and skin, even at low dosage levels.
- Never look into the UVC lamp's light.
-  The tubes in the UVC lamp contain toxic mercury. If mercury vapours are inhaled, there is a risk of poisoning. Therefore exercise caution when using the UVC lamp and do not damage it. Never look into the UVC lamp's light.

## Commissioning

### Use

The LGND Aurora can be installed inside an aquarium or sump as shown in Figures A, B and C.

### Setting up the UVC lamp



#### **DANGER! UVC lamp contains mercury!**

- Handle the UVC lamp with care.
- DANGER OF BREAKAGE! Do not touch the glass element directly with your fingers. Instead, always use a soft cloth or similar item.



#### **WARNING! UV radiation!**

- Never operate the UVC lamp outside the appliance. Unintended use of the appliance or damage to the housing may result in the emission of dangerous UVC radiation. UVC radiation can cause injury to eyes and skin, even at low dosage levels.

1. Install the LGND Aurora in the selected position as described below.

(see **chapter Installation and Use**).

#### **Attaching the LGND Aurora inside the aquarium (Fig. A)**

For effective water treatment, attach the LGND Aurora to one of the side panels or to the rear glass of the aquarium. Position it so that the water flow from the filter is directed towards and around the unit. To do so, proceed as follows:

1. Clean the selected area of the aquarium glass.
2. Secure the LGND Aurora vertically to the side or rear glass using the supplied suction cups.
3. Ensure that the entire UV-C lamp assembly is fully submerged.
4. Position the filter outlet so that the water flow is directed towards the LGND Aurora and circulates freely around it.
5. Check that the unit is firmly secured before switching it on.

### Attaching the LGND Aurora inside the sump (Fig. B)

For effective water treatment, install the LGND Aurora in a sump chamber with continuous water circulation. The unit can be attached to one of the side panels, to the rear glass or to the bottom of the sump. To do so, proceed as follows:

1. Select a sump chamber that remains permanently filled with water.
2. Clean the selected glass surface.
3. Secure the LGND Aurora to the side panel, rear glass or bottom of the sump using the supplied suction cups.
4. Ensure that the entire UV-C lamp assembly is fully submerged.
5. Position the unit where water can flow freely around it and where the openings in the protective housing are not obstructed.
6. Check that the unit is firmly secured before switching it on.

### Attaching the LGND Aurora to the bottom of the aquarium or sump (Fig. C)

For effective water treatment, the LGND Aurora can be installed horizontally on the bottom of the aquarium or sump. It must be positioned in an area with strong and continuous water circulation. To do so, proceed as follows:

1. Select an area with strong and continuous water flow.
2. Clean the selected glass surface.
3. Secure the LGND Aurora horizontally to the bottom using the supplied suction cups.
4. Ensure that the entire UV-C lamp assembly is fully submerged.
5. Make sure that the protective housing openings are not covered or obstructed by substrate, equipment or other objects.
6. Check that water can circulate freely around the entire unit.
7. Check that the unit is firmly secured before switching it on.

## Operation

### Switching on the LGND Aurora UV-C Internal

-  **DANGER! Electric shock!**
- Ensure that the controller, mains plug and all electrical connections remain outside the aquarium or sump and completely dry.
  - Never connect or disconnect the appliance with wet hands.

-  **CAUTION! Material damage.**
- Never operate the LGND Aurora UV-C Internal outside the water or when only partially submerged.
  - The UV-C lamp assembly must be fully submerged before it is switched on. The surrounding water cools the UV-C lamp.

1. Secure the LGND Aurora UV-C Internal in the selected position using the supplied suction cups.
2. Ensure that the entire UV-C lamp assembly is fully submerged and that the openings in the protective housing are not obstructed.
3. Check that the unit is firmly attached and that water can circulate freely around it.
4. Insert the mains plug into the mains socket. The Power button indicator illuminates.
5. Press the Power button. The display illuminates and the UV-C lamp begins operating according to the selected programme.

### Switching off the LGND Aurora UV-C Internal

1. Press the Power button to stop operation.
2. Remove the mains plug from the mains socket.

 Important: Always switch off and unplug the LGND Aurora UV-C Internal before switching off the water circulation or removing the unit from the water.

## Maintenance

-  **DANGER! Electric shock!**
- All appliances must be disconnected from the power supply before any maintenance work is carried out.

-  **DANGER! Mercury hazard!**
- Handle the UVC lamp with care.
  - DANGER OF BREAKAGE! Do not touch the glass element directly with your fingers. Instead, always use a soft cloth or similar item.

-  **WARNING! UV radiation!**
- Never operate the UVC lamp outside the appliance. Unintended use of the appliance or damage to the housing may result in the emission of dangerous UVC radiation. UVC radiation can cause injury to eyes and skin, even at low dosage levels.

**CAUTION! Material damage.**

- Do not use hard objects or aggressive cleaning agents for cleaning.

## Clearing faults

**DANGER! Electric shock!**

- Before clearing faults, remove the mains plug.

| Fault                                         | Possible cause             | Remedy                                                                                                   |
|-----------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------|
| <b>UVC lamp does not illuminate</b>           | No mains voltage           | <ul style="list-style-type: none"> <li>Check the mains voltage</li> <li>Check the supply line</li> </ul> |
|                                               | Mains plug is not inserted | <ul style="list-style-type: none"> <li>Insert the mains plug in the mains socket</li> </ul>              |
|                                               | UVC lamp is defective      | <ul style="list-style-type: none"> <li>Replace the UVC lamp</li> </ul>                                   |
| <b>Water is not clear Glass bulb is dirty</b> |                            | <ul style="list-style-type: none"> <li>Clean the glass bulb</li> </ul>                                   |
|                                               | UVC lamp no longer works   | <ul style="list-style-type: none"> <li>Replace the UVC lamp</li> </ul>                                   |
|                                               | Mains plug is not inserted | <ul style="list-style-type: none"> <li>Insert the mains plug in the mains socket</li> </ul>              |

For other faults, please contact LGND Service.

## Decommissioning

**Storing and overwintering**

- Clean the appliance
- Store the appliance in a frost-proof place..

**Disposal**

When disposing of the appliance, pay attention to the relevant statutory regulations.

Information on the disposal of electrical and electronic appliances in the European Union: Within the European Union, disposal of electrically operated appliances is governed by national regulations that are based on the EU Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). The appliance may no longer be disposed of with the municipal or household waste. The appliance will be accepted free of charge at municipal collection points or recycling centres. The product packaging is made up of recyclable materials. Dispose of them in an environmentally responsible manner and take them for recycling.

## Guarantee

The LGND Aurora UV-C Internal is covered by a two-year limited guarantee beginning on the date of delivery to the original purchaser. This guarantee covers defects in materials and workmanship occurring during normal use and in accordance with the operating instructions. It includes premature failure of the integrated UV-C lamp, controller and other electrical components. The UV-C lamp is permanently sealed inside the unit and cannot be replaced by the user. Do not open, dismantle or modify the sealed lamp assembly. If a covered defect occurs during the guarantee period, the complete unit will be repaired or replaced at our discretion, free of charge.

**This guarantee does not cover:**

- Normal wear and deterioration;
- The normal reduction in UV-C output over time;
- Accidental damage;
- Damage caused by improper installation, operation or maintenance;
- Operation outside the water or while only partially submerged;

- Restricted water circulation or obstructed housing openings;
- Damage caused by limescale, dirt or inadequate cleaning;
- Unauthorised opening, dismantling, modification or repair;
- Use with an unsuitable power supply;
- Damage to the controller, mains plug or electrical connections caused by water ingress.

To make a guarantee claim, contact the retailer from whom the product was purchased and provide proof of purchase, the product model and a description of the fault. The product may need to be returned for inspection. Where the claim is valid, reasonable return costs will be covered.

This commercial guarantee is provided in addition to, and does not affect, your statutory rights under applicable consumer law.

# **AURORA**

## **Submersible UV-C Lamp**

Date of Purchase

| Model NO. | Serial NO. | Watt | Signature |
|-----------|------------|------|-----------|
|           |            |      |           |



Contact: LGND Service Center  
01293 510787 (Weekdays 10:30–17:30)  
E-mail: support@lgndadn.co.uk

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