

Royal Exclusiv

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Since 1986



Operating- and maintenance manual Royal Exclusiv® LED Lamp - RE-LIGHT

LED-Panel luminaire especially for seawater aquariums - modular -

v1.0

ENG



Operating- and maintenance manual Royal Exclusiv® LED Lamp - RE-LIGHT-

LED-Panel luminaire especially for seawater aquariums - modular -

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*Please keep these instructions for use carefully! In case of change of ownership,
please pass on the complete instructions for use.*



Do not connect the power supply to the mains until the LED cables are connected.



For more information, please visit: www.royal-exclusiv.de.

Simply enter the part number or name into the search box or email: info@royal-exclusiv.de.

All information subject to change. We try our best, but printing errors reserved.

0. Introduction

Dear customer, thank you very much for the trust and the purchase of our **Royal Exclusiv® LED lamp RE-Light**. During development, our special focus was on illuminating the surface and evenly and creating daylight that is as nature-identical as possible. The animals thus receive a spectrum that comes close to their natural habitat. This allows them to form and grow strong color pigments. We have thought of the night owls among the animals by means of a moonlight with integrated moon phase calendar.

We wish you a lot of fun and joy with your lamp.

1. Foreword

1.1. Applications

The **Royal Exclusiv® LED lamp RE-Light** is suitable for illumination of freshwater and saltwater aquariums, as well as for terrariums AquaScaping, hydroponics and botany applications.

The lamp is always to be used for use in a „clean environment“ indoor.

Ambient temperature : 0 °C bis max. +50 °C
Supply voltage : 100 - 240 V / 50/60Hz

1.2. Before installation

Attentions: Before installing the lamp, you must read this guide carefully. Damage caused by non-compliance with the instructions is not covered by the warranty.

The lamp may only be operated with the beam surface facing downwards and at least on the supports (basin holder) or with a minimum height of 10 cm above a base or water surface. The

LED lamp RE-Light must be stable and safe installed.

When unpacking the lamp, check that all parts are complete and undamaged. Any damage found must be reported to your supplier within 24 hours of purchase.

The lamp is tested before it leaves the factory. Before packaging, the lamp was treated with a biodegradable disinfectant to kill any bacteria present.

Before you put the lamp into operation, the lamp must be checked for damage. If the lamp is damaged, it must not be put into operation. Inform your supplier immediately! In the event of commissioning despite external damage, any warranty and liability claims are excluded.

Unplug the power outlet and make sure the lamp cannot be turned on. During the entire installation work, the lamp must not be connected to the mains.

These instructions should inform you correctly and completely, e.g. also about possible dangers caused by this lamp. The user, installer or maintenance technician, is responsible for controlling and following the instructions in this manual. **The Royal Exclusiv® LED lamp RE-Light** is built according to the current state of the art and the existing safety regulations. Nevertheless, this device can pose a risk to persons and property if it is used improperly or not in accordance with its intended purpose or if the safety instructions are not observed.

In the event of improper use, our liability and the general operating permit shall expire. For safety reasons, children and adolescents under the age of 16 as well as persons who cannot recognize possible dangers or who are not familiar with these instructions for use are not allowed to use this device!

**Please keep these instructions
for use carefully!**

**In case of change of ownership, please
pass on the complete instructions for use.**

The combination of water and electricity can lead to serious danger if not properly connected or handled properly.

1.3. Use of the lamp

Compare the electrical data of the power supply with the nameplate on the packaging or on the device. Make sure that the device is protected by a residual current protection device with a rated residual current of up to 30 mA (DIN VDE 0100T739). Only operate the device from a properly installed power outlet.

Keep the power plug and all connection points dry! Lay the connection cable protected so that damage is excluded.

**IT IS NOT ALLOWED TO USE THE PLUG
CUT OFF. IT EXPIRES IMMEDIATELY
ALL WARRANTY AND LIABILITY CLAIMS.**

Use only cables, installations, adapters, extension or connection cables with safety contact that are approved for use. (DIN VDE 0620 and with sufficient cable diameter). Do not carry or pull the device on the connection cable! If the cable or housing is defective, the device must not be

operated! Protect the connector and accessory cables against heat, oil, UV light and sharp-edged parts.

The manufacturer assumes no liability for damages in any form caused by improper use or negligence of the user / installer. Make sure that the connector of the lamp never falls into the water or gets damp. If the connector plug gets wet in any way, it must be opened by an expert and rinsed with demineralized water.

After that, it must be carefully dried.

Cables may not be altered or replaced. Electrical installations must always comply with national and international requirements, directives and standards. Never open the housing of the device or its associated parts, unless expressly stated in the instructions for use or instructions by **Royal Exclusiv®**. Never make technical changes to the device.

Use only original spare parts and accessories. Repairs can only be carried out by authorized service centers.

(Exception: Extension / installation and removal after consultation with RE Support)

If you have any questions or problems, contact an electrician, your dealer or the manufacturer **Royal Exclusiv®** directly for your own safety.

ATTENTION: First connect the power supply without power to the Royal Exclusiv RE Light – Multi-pole rotary joint.



Netzteil erst an das Stromnetz anschließen, wenn die LED Kabel angeschlossen sind.



For more information, please visit: www.royal-exclusiv.de.

Simply enter the part number or name into the search box or email: info@royal-exclusiv.de.

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2. General information

2.1. Intended use

Our luminaires are mainly designed for illuminating freshwater and saltwater aquariums, as well as for terrariums aquascaping, hydroponics and botany applications. The lamp bodies must be installed at a minimum distance of 10 cm from the water surface above the aquarium. The luminaire itself must not come into contact with water.

2.2. Scope of delivery

- RE-Light luminaire with connection cable for Power supply
- Multirange power supply with connection cable for Luminaire and to the mains
- Upstand or ceiling attachment
- Operating instructions

Please check the scope of delivery immediately after unpacking your luminaire. Important: **Important:** Damaged luminaires or components must not be put into operation under any circumstances!

Our luminaires are equipped with the CE mark. This can usually be found on the type plate.



2.3. Safety

Please note the following information on operation:

The luminaire must be mounted at a minimum distance of 10 cm from the water surface. Use our stand-up feet or our rope system. The rope system must be checked at regular intervals for possible corrosion.

The luminaire must not be operated without a splash screen.

The luminaires are intended exclusively for operation via aquariums inside the building. They must not be operated under water.

During maintenance work, the luminaire must be completely disconnected from the electrical mains.

When working in the aquarium, it is recommended to disconnect the lighting from the mains for safety reasons.

During operation, the luminaire heats up, so care must be taken to ensure that the cooling surfaces of the luminaire remain free and sufficient heat can be dissipated.

ATTENTION: Do not look at the light/beam surface when switching on the lamp and during operation!!!

Please do not „do it yourself“ Repair attempts. Contact your dealer or call our service hotline 02236-880550.

We are happy to help you.



3. Overview

3.1 Controller

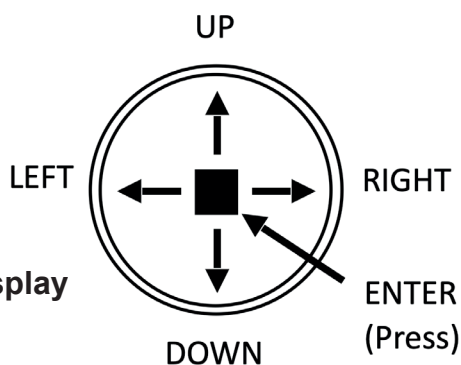
The lamp controller of the **Royal Exclusiv® RE-Light** is located on the side of the lamp and can be operated directly. As soon as the lamp is energized, an internal battery charges within seconds. This prevents the date and time as well as all settings from being lost in the event of a power failure. The battery has a capacity of about 2-3 days.

3.2 Saving Settings

Settings are saved and activated as soon as you get to the start or overview view with the „Start“ button from the menu (see point 4).

3.3 Joystick

On the housing, the entire operation is carried out via the built-in 5-point joystick



3.4 Display

Date

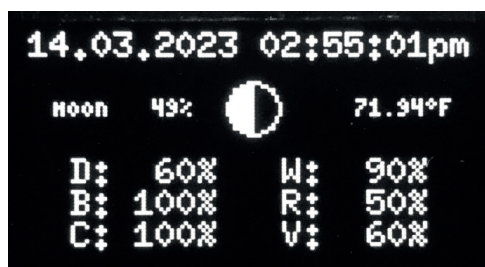
Current moon phase

Current intensity

Dark blue 1 + 2 channel

Blue Channel

Turquoise Channel



Time

Lamp temperature

Current intensity

White Channel

Red Channel

Violet Channel

3.5 Lamp temperature

The lamp temperature indicates the current temperature of the lamp. Overheating of the lamp is prevented by an automatic light intensity reduction from a lamp temperature of 60°C.

This prevents increased aging of the LEDs.

As a rule, the automated decrease in light intensity is imperceptible to the human eye.

4. Installation

4.1 Installation of the luminaire

For the two suspensions, drill holes in the load-bearing structure, e.g. ceiling, according to the cable system.

Assembly equipment such as dowels, screws, etc. must be chosen according to local conditions. Let your specialist dealer advise you. After successfully attaching the rope suspension, the luminaire can be hung with the help of the Y-mount.

4.2 Commissioning of the luminaire

Connect the power connector of the **Royal Exclusiv® LED lamp RE-Light** to the power supply (-without power-) and connect the controller to the supplied cable with network connection.

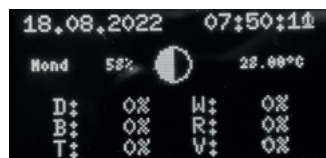
ATTENTION: First connect the power supply without power to the Royal Exclusiv RE Light – Multi-pole rotary joint.

Then check all connections again carefully!
You can now connect the power supply to the mains via safety plug.

ATTENTION: When switching on or operating the luminaire, do not look at the light/beam surface!!!

There is a risk of delusion

The controller will take about 2-10 seconds to start and starts once with the appearance of the Royal Exclusiv logo.



The LEDs will run at full power for a short time during this initialization. Then they automatically switch to factory settings or the previously saved settings.

The power supply and the light get warm during operation. Therefore, make sure that sufficient heat dissipation is ensured.

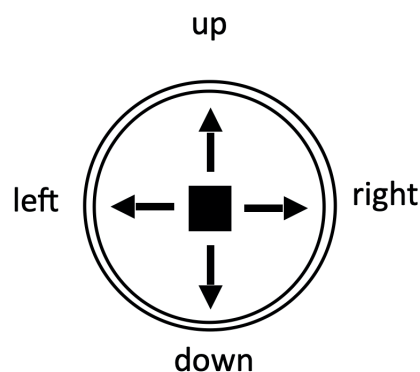
5. Preview and Quick View (demo mode)

In order to obtain a rough setting of the desired target spectrum or for demonstration purposes, the lamp controller has a quick view of the 7 lamp channels that can be mixed individually. Here,

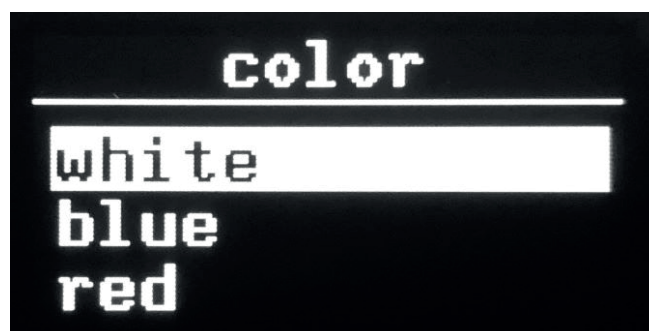
the light intensity of the individual channels is adjustable between 0-100%.

Procedure

a. On the running controller (whether in display standby or screensaver mode) where the controller is in the overview view, the joystick is initially moved in one direction.



b. Then a submenu opens where you can select a color channel by moving the joystick up or down. By pressing the joystick you can now get to the intensity setting.

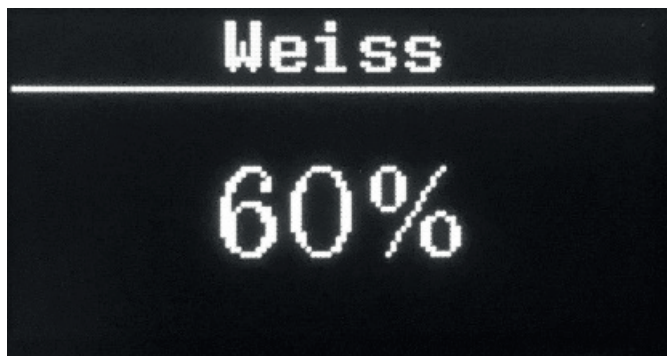


c. In the respective selected channel, the intensity can then be changed by the four directions of movement of the joystick.

The intensity can now be changed live in this program mode.

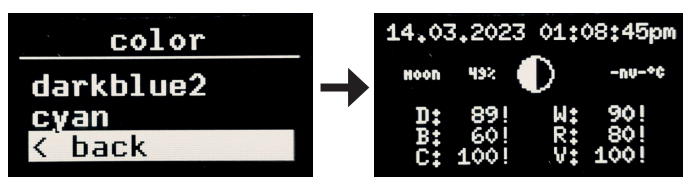
If you move the joystick to the right or left, the intensity level changes in 10 percentage steps.

If you move the joystick up or down, the intensity level changes in 1 percentage steps.



d. As soon as you have confirmed the respective intensity by pressing the joystick, you get back to the color channel selection list. **Note:** All channels except the initially selected one in this so-called demo mode now switch to the intensity level 0%. Each channel can be adjusted, mixed and confirmed, stored in the described way.

e. It is now possible to get from the color channel selection list to the start screen to get the intensities of the individual set channels as an overall overview. To do this, navigate down or up with the joystick until the navigation command „back“ appears. Enter then takes you to the start screen:



f. You can now see on the start screen by the exclamation marks (!) instead of the percent sign (%) next to the color channels that you are still in the so-called demo mode.

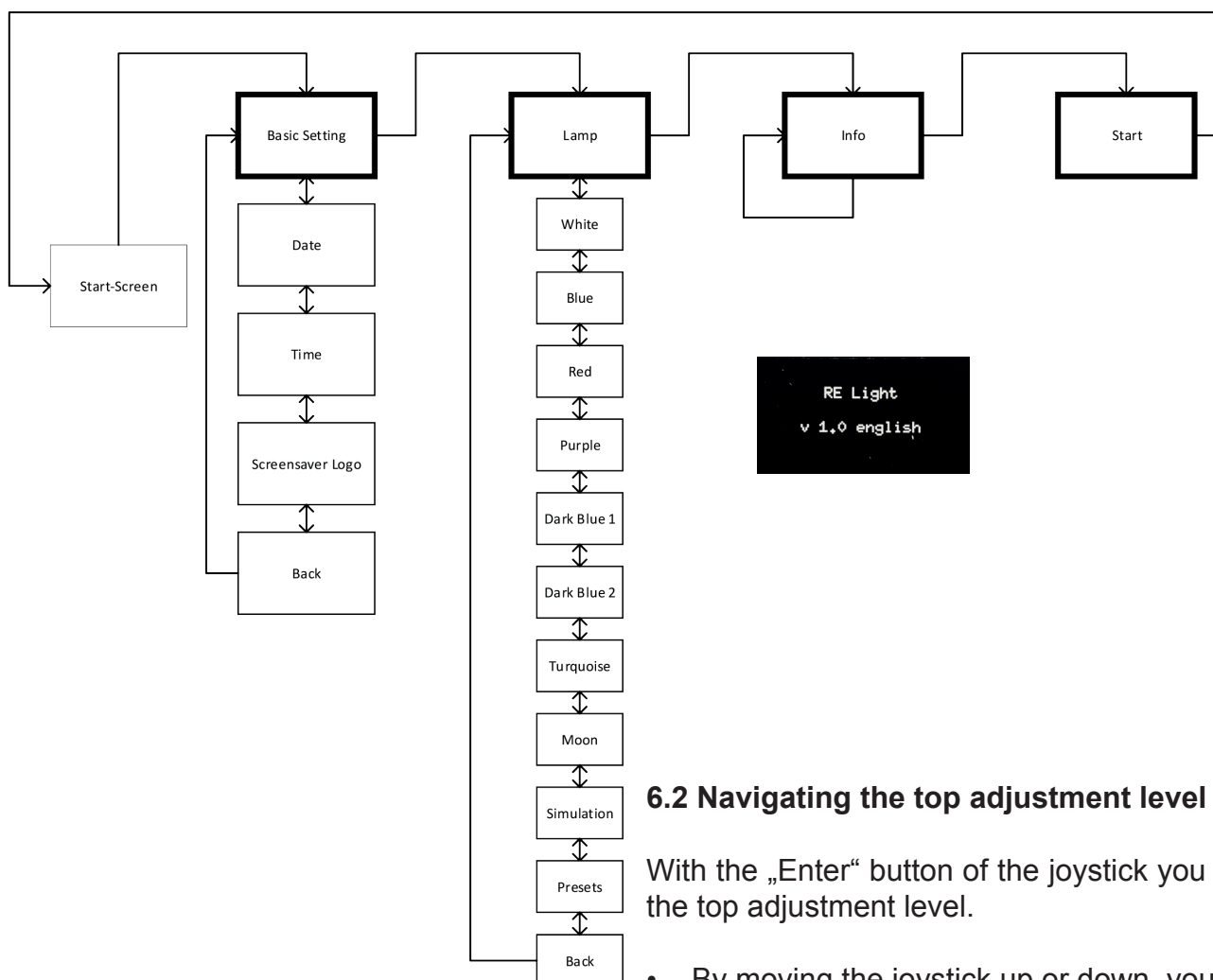
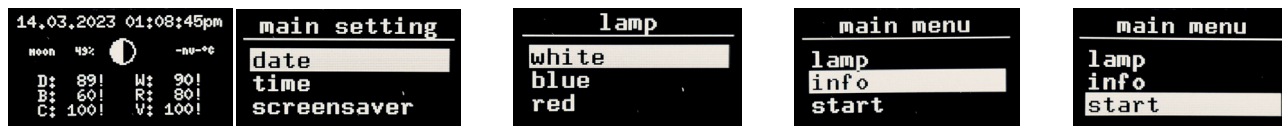
If there is now a desire to continue mixing the color channels in this demo mode, the joystick must be pressed back in one of the respective directions as described under a. You can then proceed as described under b. and c.

g. If you now wish to return to automatic mode, this is done by pressing the joystick key „Enter“. This takes you back to the basic settings menu.

From there you navigate down to the menu item „Start“ and confirm by pressing the joystick „Enter“ that you want to switch from demo mode back to automatic mode.

6. Settings menu (light sets)

6.1 Top-Level Menu Scheme

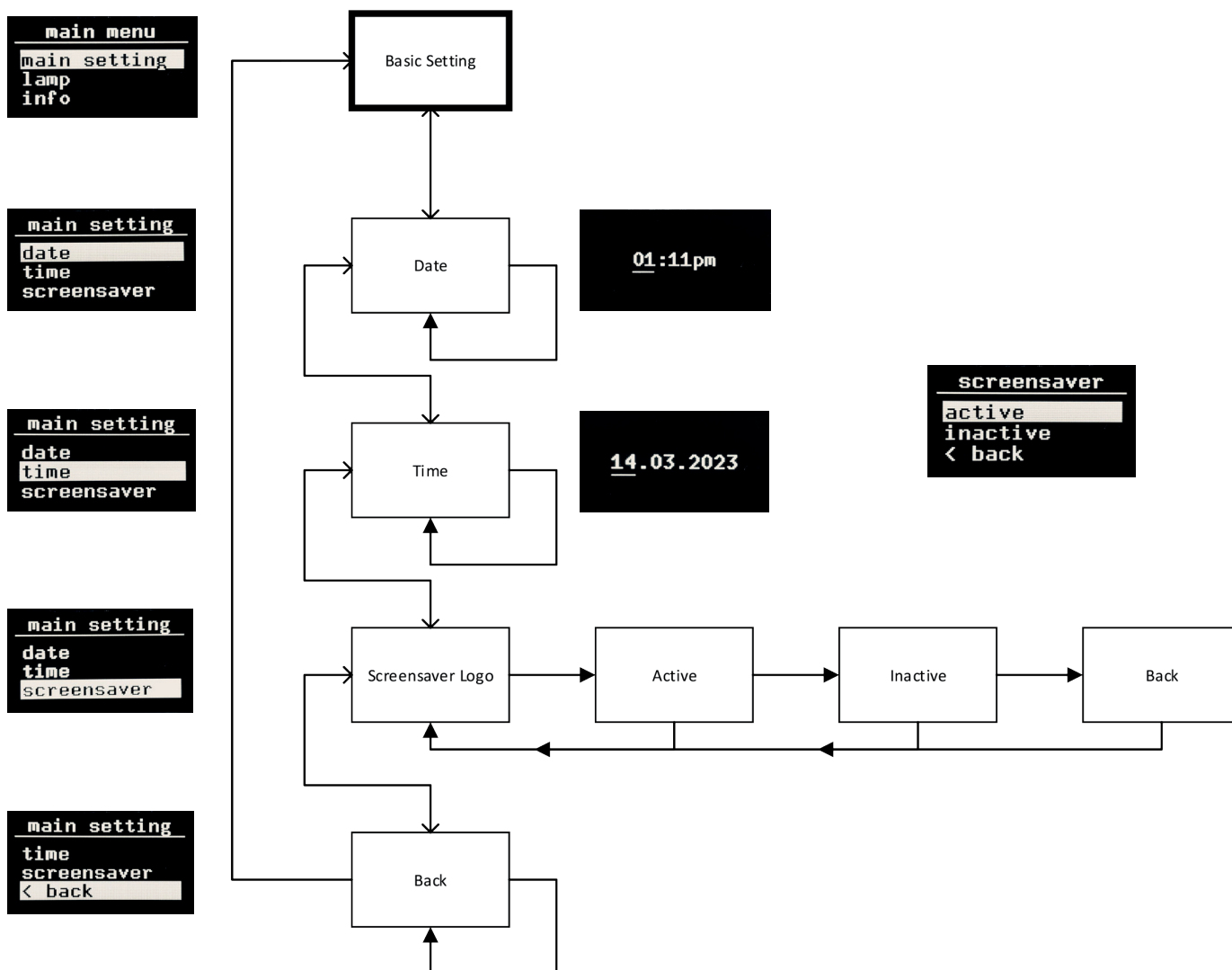


6.2 Navigating the top adjustment level

With the „Enter“ button of the joystick you get to the top adjustment level.

- By moving the joystick up or down, you move through the individual points in the menu.
- In the top level you move either to the basic setting, lamp setting or to the info page of the controller.
- By pressing the joystick again, you get to the respective lower level as shown in the diagram.

6.3 Menu schema level basic setting



6.4 Setting the time and date

By default, set the date and time. The blinking cursor shows which field you are currently in. With the joystick, the respective number is increased or decreased upwards or downwards, by moving the joystick to the left and to the right you move the cursor to the next field to be set.

6.5 Saver logo

It is possible to „activate“ or „deactivate“ the screensaver. When disabled, the display turns black after about 1 minute. In the menu screensaver the option „activate“ or „deactivate“ can be selected. After confirming the respective field by pressing the joystick, you return to the overview of the basic setting.

If the screensaver has appeared or the display has become dark depending on the setting, you can get to the overview by pressing the joystick.



6.6 Menu scheme level lamp setting

The **Royal Exclusiv® RE-Light** already has a factory preset and three additional „presets“. The presets are stored for pure PLC, LPS filling and a mixed setting of PLC-LPS so that you can start directly.

If you want to change individual channels, fine-tune the „presets“ (e.g. because you have a higher cymbal and want to increase the intensity or times.), there is the possibility in the lamp setting menu. 7 channels are adjustable: White, Blue, Red, Violet, Dark Blue 1, Dark Blue 2 and Turquoise, as well as a feature that simulates the moon phase at night when the main light has been dimmed down.

Therefore, the „presets“ can be adapted to personal feeling and taste. This so-called fine tuning is maintained as long as the LED is connected to the mains, unless the lamp remains disconnected from the power for a longer time (2-3 days) so that the internally installed back-up battery discharges. If the period is exceeded, the initial „presets“ are preset again. You can fine-tune again.

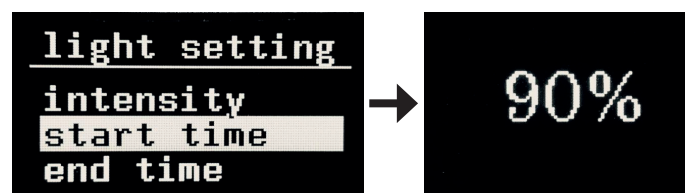
**graphical overview see next page*

After all settings have been made, there is another possibility. You can quickly view the adjusted lamp setting with „simulation“. Fast forward is a 24-hour day in fast motion.

For each of the 7 lamp channels and the moon channel, it is possible to set the intensity, start, end time, the duration start of the dimming process and the duration end of the dimming process.

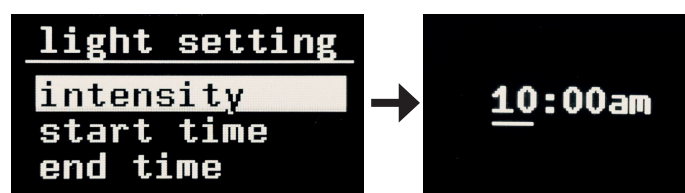
6.7 Intensity

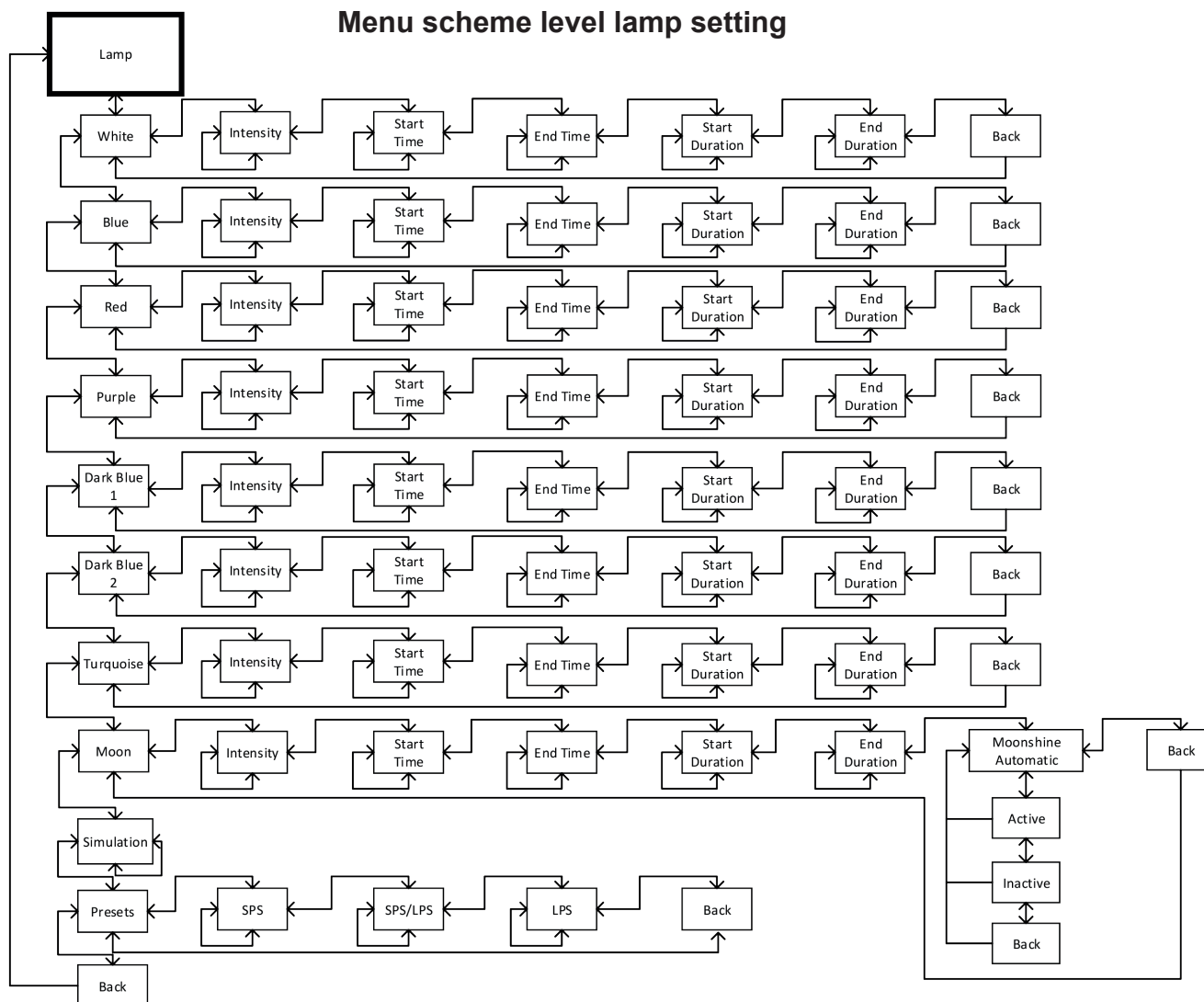
The „Intensity“ is given as a percentage between 0-100%. It indicates how bright or how strong the lamp lights up after the dimming process starts. If you move the joystick to the right or left, the intensity level changes in steps of 10. If you move the joystick up or down, the intensity level changes in steps of 1.



6.8 Start Time

The „Start Time“ indicates at what time the lamp should start with the start of the dimming process, i.e. from dark to light. With the joystick, the respective number is increased or decreased upwards or downwards, by moving the joystick to the left and to the right you move the cursor to the next field to be set.

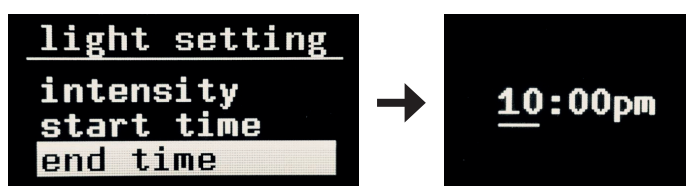




6.9 End Time

The „**End Time**“ indicates the time at which the dimming process from light to dark should be finished.

With the joystick, the respective number is increased or decreased upwards or downwards, by moving the joystick to the left and to the right you move the cursor to the next field to be set.



6.10 Duration Start

„**Duration Start**“ indicates how long the dimming process should take from dark to reaching the maximum specified percentage value (light). The duration is counted in minutes and runs a preset profile for the respective channel. No further setting is required.

If you move the joystick to the right or left, the intensity level changes in steps of 10

If you move the joystick up or down, the intensity level changes in steps of 1.

light setting
start time
end time
durat. start



60min

6.11 Duration End

Duration End indicates how long the dimming process should take from light to reach the minimum percentage value (dark).

light setting
end time
durat. start
durat. end



60min

The duration is counted in minutes and runs a preset profile for the respective channel. No further setting is required.

If you move the joystick to the right or left, the intensity level changes in steps of 10

If you move the joystick up or down, the intensity level changes in steps of 1.

6.12 Automatic moon

With the moonlight setting, it is also possible to choose between a moon phase automatic or a manual moonlight setting.

moon setting
durat. start
durat. end
moon autom.

In contrast to the „moon automatic“, you set the maximum intensity yourself with the inactive setting.

This means that the maximum intensity does not change from day to day according to the respective moon phase, but remains constant every

moon autom.
active
inactive
< back

day between the selected start-up and time-out. With active moon automatic, the maximum intensity in percent (%) is reached at full moon. In the days between new and full moon (completely off or full on), certain maxima automatically set after the dimming process.

6.13 Disable moonlight

If the moonlight is to be switched off throughout the night, only the intensity of 0% must be set in both active and inactive mode.

6.14 Simulation

By pressing the „Simulation“ version, the selected lamp setting is carried out for 24 hours in fast forward (about 30 seconds). The respective mixed profile (all 7 channels together) is displayed live graphically.

lamp
moon
simulate
presets



6.15 Presets

The „Presets“ contain preset optimal lighting situations for PLC, PLC/LPS and LPS.

Lampe
Simulation
Presets
< zurück

light setting
sps
sps/lps
lps

7. Default setting

It is possible to reset the lamp to factory settings, this concerns the lamp channel settings of the user.

Procedure:

- a. Unplugging the power plug
- b. While holding down the joystick (hold down Enter key) power plug it back into the socket and press and hold for about 5 seconds.
- c. Release the joystick pushers.
- d. The lamp channel setting is located is now back in factory settings!

8. Warranty

8.1 Scope

This limited warranty applies from the date of purchase for all newly purchased products of **Royal Exclusiv® Aquarien-Anlagenbau Christian Walter GmbH & Co. KG** for regular personal use and not for resale.

8.2 Period

The warranty period is limited to one year, which begins on the date of purchase. The exact warranty period depends on when and where the product was purchased. The warranty claim must be proven by a valid proof of purchase.

8.3 Disclaimer of Warranties

The following are not part of this warranty agreement:

Misuse, accidents or changes to hardware or software, manipulation, an unsuitable physical or operational environment that does not comply with product specifications, causal maintenance or defects caused by a product for which is not responsible. For products whose nameplate has been removed or altered, any warranty claim ex-

pires. Royal-Exclusiv GmbH & Co. KG does not warrant any other assurances of any kind, including, but not limited to, implied promises or conditions regarding the ability to act or fitness for a particular purpose. Royal-Exclusiv GmbH & Co. KG is not obliged to exchange products that do not fall within the scope of this limited warranty.

9. claims for defects and compensation, Disclaimer

9.1 Claims for defects and compensation

We are liable for ensuring that our delivered goods are free of defects at the time of transfer of risk. However, insignificant deviations from the agreed quality or insignificant impairments of usability are irrelevant. The owed quality, durability and use of our delivered goods is based exclusively on the specification, product description and/or operating instructions agreed in writing.

Further information, in particular in preliminary discussions, advertising and/or industrial standards referred to, shall only become part of the contract if expressly agreed in writing. Our warranted characteristics expressly apply. We cannot accept warranted or promised characteristics expressed by third parties. The properties guaranteed in this operating manual shall apply explicitly.

If the customer wishes to use the delivered goods for purposes other than those agreed, he must carefully examine the suitability for this and/or the admissibility himself at his own responsibility. We exclude liability for usability not expressly confirmed by us in writing. In the event of manipulation of the lamp itself, the controller, the individual LED modules or the electronics, as well as the attempt to change or influence the electronics, the manufacturer's warranty expires immediately.

Each user is responsible for the proper operation of his **Royal Exclusiv® LED lamp RE-Light**. The operating instructions do not relieve you of the obligation to handle safely during use, installation, operation and maintenance. By using this manual, you acknowledge that under no circumstances can the manufacturer be held liable for any damage to property and/or personal injury that may occur as a result of use. This applies in particular to damage that is to be expected from improper operation. Missing or completely missing maintenance and cleaning intervals and the resulting possible damage are not covered by warranty claims.

9.2. Our liability for defects is generally limited to subsequent performance. Supplementary performance is, at our discretion, remedy of defects or delivery of defect-free goods. In the event of rejection, impossibility or failure of supplementary performance, the customer has the right to reduce or withdraw from the contract at his discretion. Increased expenses for subsequent performance arising from the fact that the customer has taken the purchased item to a location other than the customer's branch after delivery shall be borne by the customer.

The manufacturer expressly limits the warranty to the lamp itself. Further damages, e.g. a loss of fish caused by lamp failure or other consequential damages, are generally not accepted. Each user is responsible for ensuring that reserve units are available in the event of a possible lamp failure.

9.3. The customer must carefully inspect the delivered goods immediately upon receipt – also for product safety – and report obvious defects immediately in writing, hidden defects immediately after discovery. The customer must immediately report transport damage to the carrier within 24 hours. In the event of non-compliance with the obligation to inspect and give notice of defects, claims for defects are excluded.

9.4. Furthermore, we are not liable for consequences of improper handling, use, maintenance and operation of the delivered goods by the customer or his agents as well as normal wear and tear. This applies in particular with regard to consequences of thermal, chemical, electrochemical or electrical influences, as well as violations of our operating instructions. The same applies if the defects are due to interventions or orders of the customer not confirmed by us.

9.5. Our liability for gross negligence is limited to claims for injury to life, limb and health, to claims under the Product Liability Act as well as to claims arising from culpable breach of essential contractual obligations which endanger the purpose of the contract. In all other respects, our liability for grossly negligent breach of essential contractual obligations for the typically occurring damage foreseeable by us at the time of conclusion of the contract is excluded.

Beschädigungen, die eindeutig auf unsachgemäße BedienungDamage that is clearly attributable to improper operation of the goods is the responsibility of the customer. In the case of returns, the customer must ensure that the goods are packed in a shatterproof manner. In the event of damage caused by improper packaging, he shall be fully liable.

9.6. Claims for defects against us shall become statute-barred within one year after delivery of the goods to the customer. The same applies to claims for damages regardless of the legal grounds.

The limitation of the limitation period does not apply to claims due to fraudulent concealment of a defect, to claims under the Product Liability Act as well as to damages resulting from injury to life, limb or health and to other damages based on intent or gross negligence.

9.7. If it turns out during our examination of a defect notified by the customer or in the course of our rectification work that the notice of defect was raised through gross negligence without justification, we may demand appropriate remuneration for the inspection and/or repair work. The customer has the right to refuse a necessary repair and request the return of the lamp. In principle, the inspection of the defect is associated with a lump sum for costs if it turns out that the customer himself is responsible for the notified defect.

9.8. Spare parts

Our obligation to stock/supply spare parts is limited to a period of 5 years after delivery. For spare parts, our respective list prices apply.

9.9. Disposal

We offer our customers the opportunity to take back our old appliances covered by the Electrical and Electronic Equipment Act, which were placed on the market after 13 August 2005, free of charge within Germany and to take over the recycling/disposal. If the customer does not have the disposal carried out by us, he assumes at his own expense the obligation of disposal in accordance with the statutory provisions and indemnifies us from the obligation according to § 10 Abs. 2 ElektroG (take-back obligation of the manufacturer) and related claims of third parties.

9.10. Subject to change

The manufacturer has the right at any time to make hardware and software changes to the products without prior notice, provided that this improves the operational safety and quality of the lamp. No claims can be made if, for example, the design, functions or performance of the lamp have changed fundamentally. It is guaranteed that the assured properties of the lamp are always guaranteed.

10. Technical data

RE-Light ONE - TWO - THREE - FOUR

Dimensions (H/W/D)	Weight (kg)	Current consumption max. (W)
ONE 360/325/40 mm	6	120
TWO 630/325/40 mm	9	240
THREE 910/325/40 mm	12	360
FOUR 1180/325/40 mm	18	480

If you have any further questions, please contact our support at
support@royal-exclusiv.de or by phone
+49(0)2236 - 88 0 55 0.

Please also visit our homepage at
<https://royalexclusiv.net/en/led-light/led-lamps-re-light/>

11. Manufacturer's declaration / Contact

Claims against **Royal Exclusiv®** based on the products described in this manual are governed exclusively by **Royal Exclusiv®** warranty provisions.
Due to constant technical improvements and innovations, product specifications may differ from those provided in this manual.

11.1. Manufacturer

**Royal Exclusiv® Aquarien-Anlagenbau
Christian Walter GmbH & Co. KG**

Vorgebirgsstr. 28 // 50389 Wesseling // Deutschland

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Made in Germany

Royal-Exclusiv® EAR-number: WEE.Reg.Nr. 83082352

11.2. Information and Support

Thank you for choosing an **LED lamp RE-Light** from the company **Royal Exclusiv®**. The **LED lamp RE-Light** is a high-quality product that is manufactured according to the highest craftsmanship standards on state-of-the-art CNC machines. This manual is intended to help you get the product up and running and make the necessary adjustments and maintenance.

To ensure that you can enjoy the device for a long time, we ask you to read the operating and maintenance instructions carefully and to adhere to our recommendations.

Royal Exclusiv® guarantees a spare parts warranty of at least 5 years on the **LED lamp RE-Light**.

If the quality of your device does not meet the high expectations that you associate with the name **Royal Exclusiv®**, please contact the dealer through whom you purchased this product. This is usually the fastest and best way. Alternatively, you can contact the support on our website: **<https://www.royal-exclusiv.de>**