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SEAOURA SR-659

SEAOURA SR-659 Aquarium LED Light with Thermometer User Manual

Model: SR-659

Brand: SEAOURA

1. INTRODUCTION

The SEAOURA SR-659 Aquarium LED Light is a full-spectrum lighting solution designed for freshwater aquariums, promoting plant growth and enhancing fish colors. It features advanced programmability, including 24/7 natural light cycles, WRGB customization, 20-level dimmable brightness, and a unique integrated thermometer with high/low temperature alarms. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance and longevity of your aquarium light.



The SEAOURA SR-659 Aquarium LED Light, designed for optimal aquatic environments.

2. WHAT'S IN THE BOX

Upon unpacking your SEAOURA SR-659 Aquarium LED Light, please ensure all the following components are present:

- Aquarium Light (SR-659)
- Extendable Mount (Adjustable Brackets)
- Adapter Cable
- User Manual
- CR1220 Battery (for power-off memory)



10 Preset Light



C01 Full Spectrum



C02 Red



C03 Green



C04 Deep Blue



C05 Orange



C06 Light Blue



C07 Purple



C08 Yellow



C09 Cyan



C10 Cycle

WRGB Custom Light

W 20%

R 20%

G 0%

B 100%

20 Level of Adjustable Brightness

All components included in the SEAOURA SR-659 package.

For a visual guide on the package contents, please refer to the video below:

Video demonstrating the unboxing and contents of the SEAOURA SR-659 Aquarium LED Light. This video is provided by a third-party reviewer.

3. KEY FEATURES

- **WRGB DIY & 20-Level Dimmable:** Customize the ratio of 4 WRGB channels and adjust brightness with 20 levels. High-quality 5054 and 2835 LED chips provide a high-PAR full spectrum for plant growth and enhanced fish colors. Features 455nm blue and 660nm red light.
- **3 Timer Modes:** Choose from S1 (DAY-L/MOON-L with preset colors, separate or alternating), S2 (24/7 natural mode with 5 preset stages), or S3 (DIY mode with 8 customizable WRGB stages). Includes a 15-minute gradient for smooth light transitions.
- **Power-off Memory:** A CR1220 battery maintains time and settings during power outages, ensuring the light resumes its original working mode without repeated setup. Features intelligent power-saving backlight.
- **Real-time Temperature Monitoring:** An upgraded waterproof temperature probe displays real-time temperature on the controller. Supports high and low temperature alarms with an audible beep to protect aquatic life.
- **High PAR Full Spectrum:** Optimized full spectrum with enhanced red/blue wavelengths maximizes photosynthesis, supporting lush plant growth and vibrant coral/fish colors with up to 90% light penetration. LED QTY: 120Pcs (W:54Pcs/R:6Pcs/G:4Pcs/B:8Pcs/RGB:48Pcs). PAR: 102, Lux: 5229, Lumen: 2580, Color Temperature: 10000K, CRI: 93.
- **Taller Retractable Stand:** Adjustable mounts fit tanks from 24 to 30 inches (20-28 gallons). The light board is IP68 waterproof with a silicone coating, and the aluminum housing ensures efficient heat dissipation.



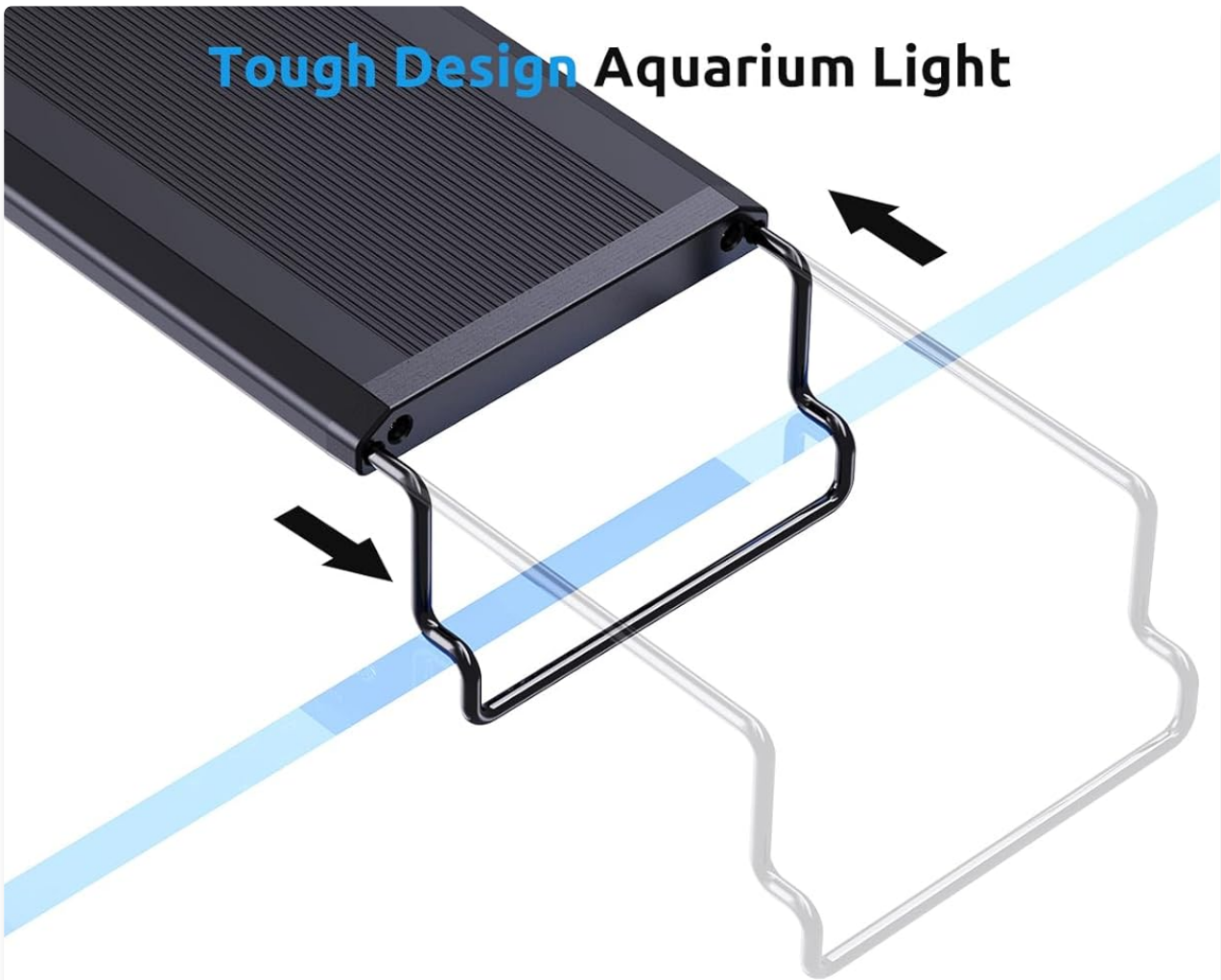
Overview of the SEAOURA SR-659's key features including WRGB, Timer Modes, Power-off Memory, and Temperature Monitor.

4. SETUP INSTRUCTIONS

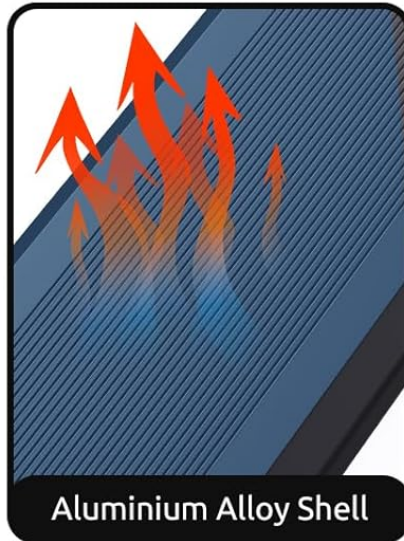
4.1. Mounting the Light

1. Insert the extendable metal brackets into the sockets on both ends of the light fixture.
2. Adjust the length of the mounts to fit your aquarium (24-30 inches for this model).
3. Carefully place the light fixture with the adjusted mounts onto the edges of your aquarium.

Tough Design Aquarium Light



IP68 Waterproof



Aluminium Alloy Shell



Improved Detector

The adjustable brackets allow the light to fit various tank sizes.

4.2. Connecting the Controller and Temperature Probe

1. Connect the power adapter cable to the light fixture.
2. Insert the CR1220 battery into the controller unit. This battery is essential for the power-off memory function.
3. Place the temperature probe into the aquarium water. Ensure the probe is fully submerged but not obstructing any equipment or fish movement.
4. Plug the power adapter into a suitable electrical outlet.

Available in 6 Sizes



28cm-11.2in

14W

For
12"-18"



43cm-16.9in

22W

For
18"-24"



58cm-22.8in

26W

For
24"-30"



73cm-28.7in

36W

For
30"-36"



88cm-34.7in

42W

For
36"-42"



118cm-46.5in

48W

For
48"-54"

The controller unit with its display and the temperature probe for real-time monitoring.

For a quick visual overview of the product and its features, including the controller and temperature probe, please watch this video:

Short preview video showcasing the SEAOURA WRGB Programmable Aquarium Light with Thermometer. This video is provided by the seller, DDMark.

5. OPERATING INSTRUCTIONS

5.1. Controller Overview

The controller features an LCD screen displaying current time, timer settings, and temperature. Buttons include SET, M (Mode), +, and - for navigation and adjustments.

5.2. Setting Time

1. Press the **SET** button to enter time setting mode.
2. Use **+** and **-** buttons to adjust the hour. Press **SET** to confirm.
3. Repeat for minutes.

5.3. Setting Timer Modes (S1, S2, S3)

The light offers three programmable timer modes:

- **S1: DAY-L / MOON-L Mode** - Allows separate or alternating day and moon lighting periods with preset colors.
- **S2: 24/7 Natural Mode** - Simulates a full 24-hour natural light cycle with 5 preset stages (sunrise, daylight, sunset, moonlight, off).
- **S3: DIY Mode** - Provides 8 customizable stages for WRGB color and brightness.

To select a mode, press the **M** button repeatedly until the desired mode (S1, S2, or S3) is displayed on Screen 1.

5.3.1. S1 DAY-L / MOON-L Setup

This mode allows you to set a daytime period (DAY-L) and a nighttime period (MOON-L) with preset colors. You can choose to have them run separately or alternate.

1. Select S1 mode using the **M** button.
2. Hold the **M** button for 3 seconds to enter DAY-L setting.
3. Adjust the DAY-L start and end times using **+** and **-**, confirming each with **M**.
4. Adjust the brightness ratio for each WRGB channel using **+** and **-**, confirming with **M**.
5. After setting DAY-L, the controller will automatically move to MOON-L setup.
6. Adjust the MOON-L start and end times. MOON-L only supports preset colors (C01-C10).
7. Press the color button to cycle through preset colors (C01-C10) and adjust total brightness.
8. Confirm all settings with **M**.

For a visual guide on setting up S1 mode, please refer to the video below:

Video tutorial on setting up the S1 DAY-L and MOON-L modes. This video is provided by the seller, DDMark.

5.3.2. S2 24/7 Natural Mode Setup

This mode automatically simulates a natural 24-hour light cycle with 5 stages. The times and colors are preset and cannot be customized.

1. Select S2 mode using the **M** button.
2. The light will automatically follow the preset 24/7 cycle.

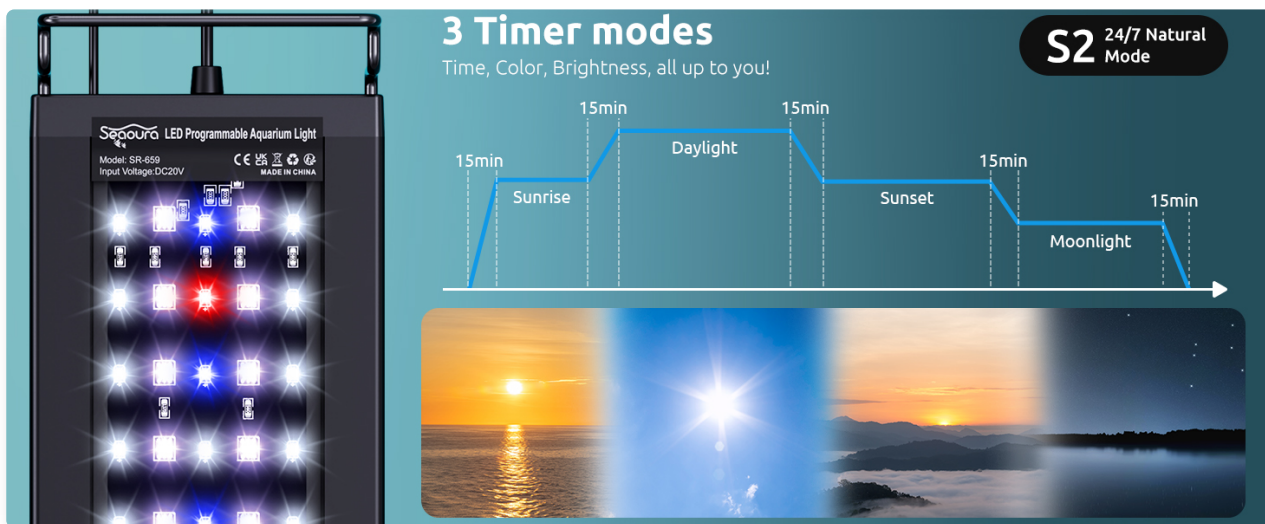


Illustration of the 24/7 Natural Mode (S2) light cycle.

5.3.3. S3 DIY Mode Setup

This mode allows for full customization of 8 stages (L1 to L8) with individual WRGB color and brightness settings.

1. Select S3 mode using the **M** button.
2. Hold the **M** button for 3 seconds to enter L1 setting.
3. For each stage (L1-L8), set the start time, end time, and individual WRGB brightness ratios using **+** and **-**, confirming each with **M**.
4. The end time of L8 is fixed 1 minute before the next L1.
5. To reset the controller to factory settings if S3 becomes messy, hold **+** and **-** for over 7 seconds.

For a visual guide on setting up S3 DIY mode, please refer to the video below:

Video tutorial on setting up the S3 DIY Mode for customized lighting. This video is provided by the seller, DDMark.

5.4. Customizing WRGB Colors and Brightness

In modes that allow customization (S1 DAY-L, S3 DIY), you can adjust the individual brightness of White (W), Red (R), Green (G), and Blue (B) channels.

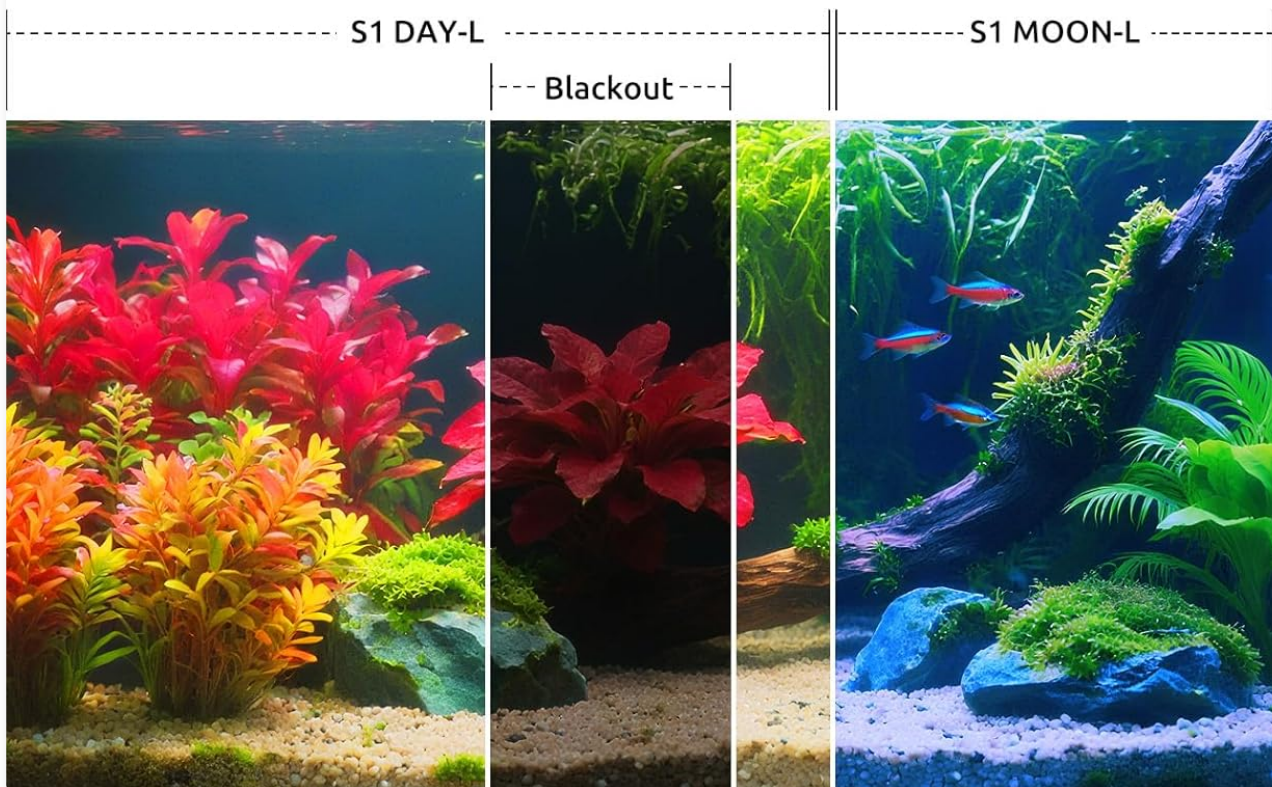
1. While in the setting for a specific stage, press the **M** button to cycle through W, R, G, B channels.
2. Use **+** and **-** to adjust the brightness percentage (0-100%) for the selected channel.
3. The light will display the real-time mixed color.
4. Confirm with **M** to move to the next channel or save the settings.

Power off Memory

The CR1220 battery helps the controller keep all settings and the passage of time during power outages



The battery is only for memory function, the light and controller can work without a battery installed.



The controller interface for customizing WRGB light channels and brightness levels.

For a visual guide on setting colors and brightness, please refer to the video below:

Video tutorial on how to set custom colors and brightness levels. This video is provided by the seller, DDMark.

5.5. Temperature Alarm Settings

The controller allows you to set high and low temperature alarms to protect your aquatic environment.

1. Press the temperature icon button on the controller to enter temperature alarm settings.
2. Use **+** and **-** to set the desired high temperature limit. Press **SET** to confirm.
3. Repeat to set the desired low temperature limit. Press **SET** to confirm.

4. If the water temperature goes outside these limits, the controller will emit an audible beep.

6. MAINTENANCE

- **Cleaning:** Regularly wipe the light fixture and temperature probe with a soft, damp cloth to prevent mineral buildup and ensure optimal performance. Do not use abrasive cleaners.
- **Connections:** Periodically check all cable connections to ensure they are secure and free from damage.
- **Battery Replacement:** If the power-off memory function fails, replace the CR1220 battery in the controller unit.
- **Waterproof Integrity:** While the light board is IP68 waterproof, avoid submerging the controller unit or power adapter.

7. TROUBLESHOOTING

- **Light Not Turning On:** Check power connections, ensure the adapter is plugged in, and verify the controller is not in an 'OFF' state.
- **Programming Confusion:** Refer to the detailed steps in Section 5 for each timer mode. If S3 (DIY Mode) settings become complex, hold **+** and **-** for over 7 seconds to reset the controller to factory settings.
- **Temperature Alarm Beeping:** Check the aquarium water temperature immediately. Adjust your aquarium heater/cooler as needed. Verify the high/low temperature alarm settings on the controller.
- **Settings Lost After Power Outage:** Ensure the CR1220 battery is correctly installed in the controller. Replace if necessary.
- **Algae Growth:** If excessive algae growth occurs, consider reducing the light intensity or duration. High PAR lights can sometimes lead to algae if not balanced with CO2 and nutrients.

8. SPECIFICATIONS

Attribute	Value
Model Number	SR-659
Tank Size Compatibility	24" - 30" (20-28 gallons)
Light Source Type	Light Emitting Diode (LED)
LED Quantity	120 Pcs (W:54Pcs/R:6Pcs/G:4Pcs/B:8Pcs/RGB:48Pcs)
Wattage	26 Watts

Light Output Maximum	2580 Lumens
PAR	102
Lux	5229
Color Temperature	10000 Kelvin
Color Rendering Index (CRI)	93
Voltage	20 Volts
Amperage	1.2 Amps
Material	Aluminum, Polycarbonate (PC)
Waterproof Rating	IP68
Cord Length	7.2 ft
Special Features	10 Color 20 Brightness, 3 Timer Modes 15Min Gradient, Memory Function, Temperature Alarm, WRGB DIY

For more detailed product information, including energy efficiency, please refer to the official product information sheet: [EPREL Product Information Sheet](#)

9. WARRANTY & SUPPORT

For warranty information, technical support, or any inquiries regarding your SEAOURA SR-659 Aquarium LED Light, please refer to the product packaging or contact SEAOURA customer service directly. Contact details are typically provided in the included user manual or on the official SEAOURA website.