

hygger HG160

hygger Programmable LED Aquarium Light (Model HG160) User Manual

Full Spectrum for Planted Tanks with 24/7 Sunrise Sunset Cycle

1. INTRODUCTION

Thank you for choosing the hygger Programmable LED Aquarium Light, Model HG160. This light is designed to provide a full spectrum lighting solution for planted aquariums, featuring a 24/7 sunrise and sunset cycle, adjustable colors, and brightness levels. This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance and longevity of your aquarium light.

2. SAFETY INSTRUCTIONS

- Always unplug the light from the power outlet before performing any maintenance, cleaning, or installation.
- This product is designed for indoor use only. Do not expose to rain or extreme moisture.
- Ensure your hands are dry when handling the power adapter and controller.
- Do not operate the light if any part is damaged, especially the power cord or adapter.
- Keep out of reach of children.
- Ensure the light is securely mounted on the aquarium to prevent accidental falls into the water.
- The light unit is IP68 waterproof, but the controller and power adapter are not. Keep them away from water.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- LED Aquarium Light Unit
- External Controller
- Extendable Brackets (pre-attached or separate)
- Power Adapter (100-240V AC to 24V/2A DC)
- User Manual (this document)

4. SETUP AND INSTALLATION

Follow these steps to install your hygger LED Aquarium Light:

1. **Unpack Components:** Carefully remove all items from the packaging.
2. **Attach Brackets:** If the extendable brackets are not pre-attached, slide them onto the ends of the light unit.
3. **Position Light:** Place the light unit on top of your aquarium. Adjust the extendable brackets to fit your tank size (e.g., 29-35 inches for the L size model) securely. Ensure the light is centered and stable.



Image: hygger LED Aquarium Light mounted on an aquarium.



Image: Close-up of the adjustable extendable brackets.

4. **Connect Controller:** Plug the light unit's cable into the designated port on the external controller.
5. **Connect Power:** Plug the power adapter into the controller, then plug the adapter into a standard electrical outlet.

5. OPERATING INSTRUCTIONS

5.1 Controller Overview

The external controller features an LCD display and several buttons for programming and adjusting the light settings. Familiarize yourself with the button functions:

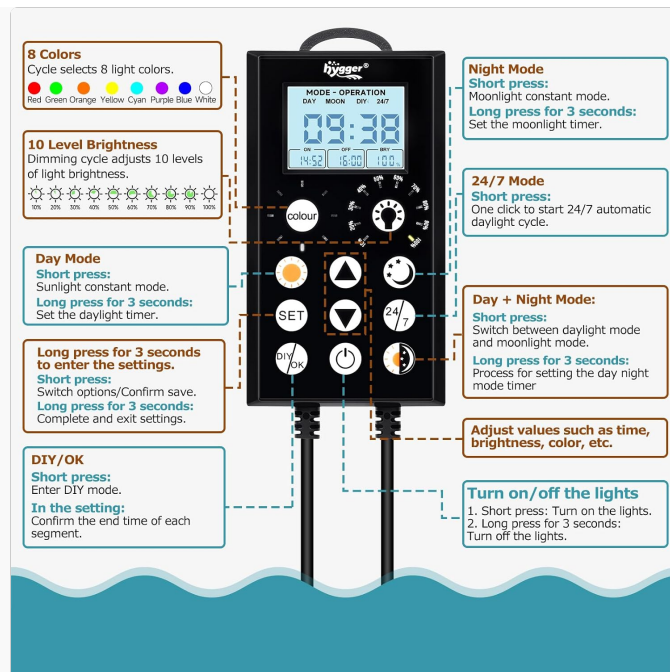


Image: Detailed diagram of the controller and its functions.

- **HOUR/MIN:** Adjusts time values.
- **SET:** Enters settings, confirms selections, or switches between hours/minutes.
- **COLOR:** Cycles through 8 available colors in DIY mode.
- **BRIGHTNESS:** Adjusts 10 levels of brightness.
- **UP/DOWN Arrows:** Adjusts values (time, brightness, color).
- **ON/OFF:** Short press to turn on, long press (3 seconds) to turn off.
- **24/7:** Activates the 24/7 automatic daylight cycle.
- **DAY:** Activates Sunlight constant mode. Long press (3 seconds) to set the daylight timer.
- **NIGHT:** Activates Moonlight constant mode. Long press (3 seconds) to set the moonlight timer.
- **DAY+NIGHT:** Switches between daylight mode and moonlight mode. Long press (3 seconds) to set the day/night mode timer.
- **DIY/OK:** Enters DIY mode, confirms end time of each segment.

5.2 Setting Local Time

Before using timed modes, set the current local time on the controller. Refer to the video below for a visual guide on operating the light, which includes time setting.

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Video: Instructions on how to operate the hygger HG160 smart aquarium light, including initial setup and time setting.

5.3 24/7 Default Mode

This mode simulates a natural 24-hour sunrise and sunset pattern, providing a stable lighting environment for your aquarium. It turns on at 6:00 AM and off at 11:00 PM with smooth transitions.

1. Ensure the local time is set correctly.
2. Briefly press the **24/7** button to activate this mode.

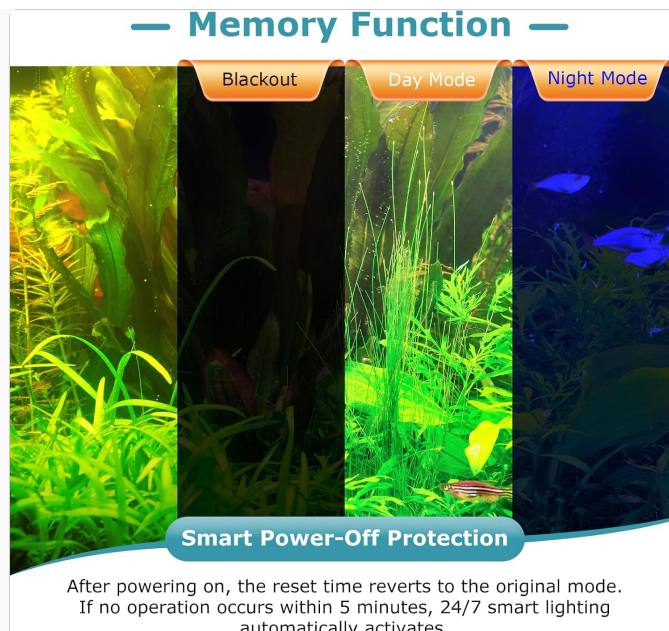


Image: Light intensity graph for the 24/7 mode, illustrating sunrise, daylight, dusk, and moonlight phases.

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Video: Demonstrates the hygger IP68 Waterproof LED Aquarium Light with Timer, showing its operation.

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Video: Shows the Day and Nightlight functionality of the aquarium light.

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Video: Demonstrates the Nightlight Mode of the LED Aquarium Light.

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Video: Demonstrates the Daylight Mode of the LED Aquarium Light.

5.4 DIY Mode

The DIY mode allows you to customize the timing, color, and brightness for up to 5 distinct stages (L1-L5) throughout the day, tailoring the lighting to your specific aquatic ecosystem needs.

1. Press the **DIY/OK** button to enter DIY mode.
2. For each segment (L1-L5) in sequence:
 - Press **UP/DOWN** arrows to set the start time. Press **SET** to switch between hours/minutes. Press **SET** to confirm.
 - Briefly press the **COLOR** button to select a color. Press **SET** to confirm.
 - Briefly press the **BRIGHTNESS** button to adjust brightness levels (10%-100%). Press **SET** to confirm.
 - Briefly press **UP/DOWN** arrows to set the end time for the current segment.
 - Press **DIY/OK** to proceed to the next segment.
3. Repeat for all 5 segments.

— 24/7 Mode —

Simulate a natural 24 hours sunrise and sunset pattern

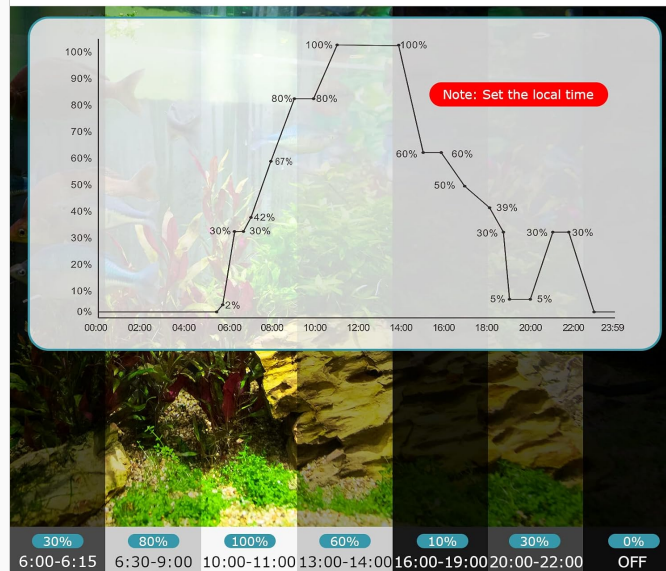


Image: Illustration of the DIY 5 Stages Mode, demonstrating customizable light phases.

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Video: Demonstrates the DIY Mode of the LED Aquarium Light, showing customization options.

5.5 Manual Modes (Day, Night, Daylight & Moonlight)

These modes allow for constant lighting at specific settings:

- **Day Mode:** Briefly press the **DAY** button for constant sunlight. Long press (3 seconds) to set a specific timer for this mode.
- **Night Mode:** Briefly press the **NIGHT** button for constant moonlight. Long press (3 seconds) to set a specific timer for this mode.
- **Daylight & Moonlight Mode:** Briefly press the **DAY+NIGHT** button to switch between daylight and moonlight. Long press (3 seconds) to set a specific timer for this combined mode.



Image: Comparison of Day Mode and Night Mode settings with the controller.



Image: Controller displaying Daylight & Moonlight Mode.

5.6 Color and Brightness Adjustment

In DIY or manual modes, you can adjust the light's appearance:

- **Colors:** Choose from 8 colors: White, Blue, Red, Green, Yellow, Azure, Orange, Purple. Use the **COLOR** button to cycle through options.
- **Brightness:** Adjust between 10 brightness levels (10% to 100%). Use the **BRIGHTNESS** button or **UP/DOWN** arrows.

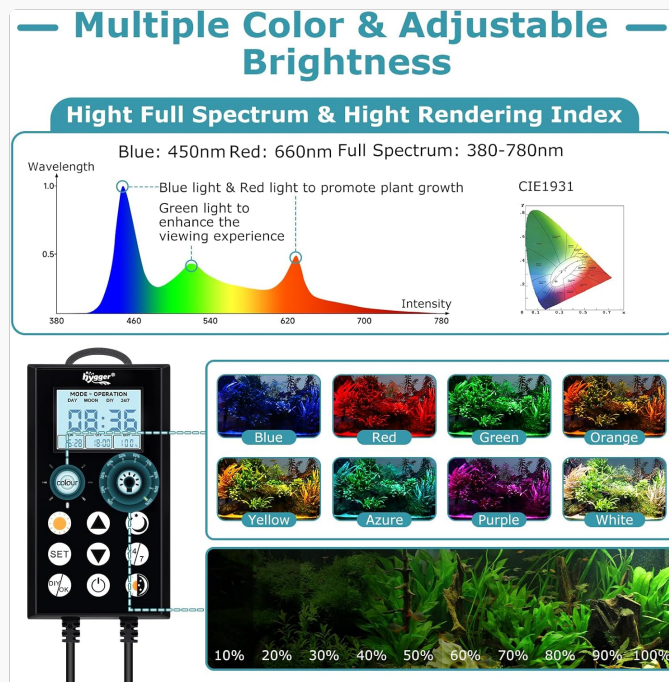


Image: Visual representation of the 8 color options and 10 brightness levels.

5.7 Smart Memory Function

The light features intelligent power recovery. In case of a power outage, all settings are restored. However, the local time may need to be reset. The 24/7 cycle will seamlessly resume if no adjustments are made within 5 minutes of reboot.



Image: Illustration of the Smart Memory Function, showing light states before and after a power interruption.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your aquarium light.

- **Cleaning:** Unplug the light before cleaning. Wipe the aluminum alloy shell with a soft, damp cloth. Do not use abrasive cleaners or immerse the controller or power adapter in water.
- **Heat Dissipation:** The light features a fin-like texture for efficient heat dissipation. Ensure these fins are not obstructed to maintain proper cooling.
- **Cable Inspection:** Periodically check the power cord and connections for any signs of wear or damage.



Image: Close-up of the aluminum alloy housing with fin-type design for heat dissipation.

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Video: Overview of the IP68 Waterproof Full Spectrum Aquarium Plant Light, highlighting its features and design.

7. TROUBLESHOOTING

If you encounter issues with your hygger LED Aquarium Light, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on.	No power, loose connection, damaged adapter.	Check power outlet. Ensure all connections are secure. Inspect power adapter for damage; replace if necessary.
Controller screen is blank or malfunctioning.	Power issue, internal fault.	Unplug and replug the power. If issue persists, contact customer support.
Specific colors are not working.	LED fault, wiring issue.	Ensure the light is not in a mode that restricts color. If problem persists, contact customer support.
24/7 mode not starting or ending correctly.	Incorrect local time setting.	Verify and reset the local time on the controller.

If troubleshooting steps do not resolve the issue, please contact hygger customer support for assistance.

8. SPECIFICATIONS

Key technical specifications for the hygger Programmable LED Aquarium Light (Model HG160):

Feature	Detail
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Feature	Detail
Model Number	HG160
Wattage	38 watts
LED Quantity	150 (94 white, 6 red, 14 blue, 6 green, 30 RGB)
Lumens	1398 lm
Color Temperature	12781K
CRI (Color Rendering Index)	>90
Product Dimensions	28.5"D x 4.3"W x 0.5"H (72.5 cm length)
Applicable Tank Size	29-35 inches (75-90 cm)
Power Source	Corded Electric (100-240V AC to 24V/2A DC adapter)
Material	Aluminum Alloy
Waterproof Rating	IP68 (light unit only)
Lifespan	50,000 hours

— Product Specifications —

Power	18W	24W	28W	38W	46W	58W
LED Quantity	60PCS	90PCS	108PCS	150PCS	180PCS	240PCS
Length Size	10.8" (27.5CM)	16.8" (42.5CM)	22.6" (57.5CM)	28.5" (72.5CM)	34.4" (87.5CM)	46.2" (117.5CM)
Lumens	591 lm	756 lm	851 lm	1398 lm	1459 lm	1695 lm
Color Temp	16568K	14207K	15755K	12781K	15745K	16227K
Applications	30-45 CM 12-18 INCH	45-60 CM 18-24 INCH	60-75 CM 24-29 INCH	75-90 CM 29-35 INCH	90-105 CM 35-41 INCH	120-135 CM 47-53 INCH
CRI	>90					

Image: Comprehensive product specifications table for different light sizes.

Premium 5050 and 2835 LEDs

Excellent bright illumination for plants and fish

Image: Details on the 38W full spectrum and high rendering index (CRI >90).

9. WARRANTY AND SUPPORT

This hygger LED Aquarium Light comes with a **2-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or any questions regarding your product, please contact hygger customer service:

- **Website:** www.hygger-online.com (Please check the official website for the most current contact information.)
- **Email:** Refer to your product packaging or official website for support email.

Please have your model number (HG160) and proof of purchase ready when contacting support.