hygger HG160

hygger 46W LED Aquarium Light Instruction Manual

Model: HG160

1. INTRODUCTION AND OVERVIEW

The hygger 46W LED Aquarium Light (Model HG160) is designed to provide optimal lighting for freshwater aquariums ranging from 35 to 41 inches. This full-spectrum light features advanced LED technology, multiple operating modes, and intelligent functions to support plant growth and enhance the vibrant colors of your aquatic life.

Key Features:

- **Heavy-duty Design:** Crafted with a premium aluminum alloy shell for exceptional heat dissipation. Features a silicone-sealed lens for IP68 waterproof protection. Includes an LCD remote and extendable brackets for secure fit on 35-41 inch aquariums.

- **High Quality LED:** Equipped with a powerful 5050 RGB and 2835 LED array (180 total LEDs: 116 White, 7 Red, 16 Blue, 7 Green, 36 RGB). Delivers 1459 lumens, a Color Rendering Index (CRI) > 90, and a dedicated color temperature of 15745K.

- **DIY Mode:** Allows customization of timing, 8 colors (White, Blue, Red, Green, Yellow, Azure, Orange, Purple), and 10 brightness levels (10%–100%) to create unique lighting scenes.

- **24/7 Default Mode:** Provides a hands-free natural cycle, automatically transitioning through dawn, daylight, dusk, and moonlight phases from 6:00 AM to 11:00 PM.

- **Smart Memory & Reliable Operation:** Features intelligent power recovery, restoring previous settings after a power outage. The system seamlessly resumes the 24/7 automatic cycle if no adjustment is made within 5 minutes of reboot.

— High Quality Aquarium Light —

Set the color, brightness, and duration for each stage according to your own preferences.
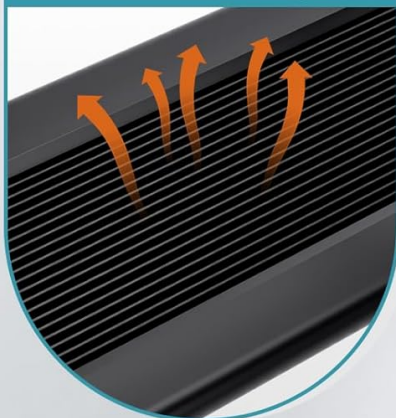
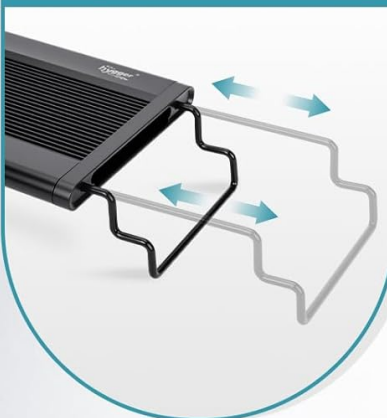**LCD Display Controller**

Powerful 5050 RGB and 2835 LED arrays

Premium Aluminum Alloy Housing

Fin-type Design for Efficient Heat Dissipation

Extendable Bracket

IP68 Waterproof

Image: The hygger 46W LED Aquarium Light installed on a freshwater aquarium, showcasing its full spectrum illumination over aquatic plants and fish.
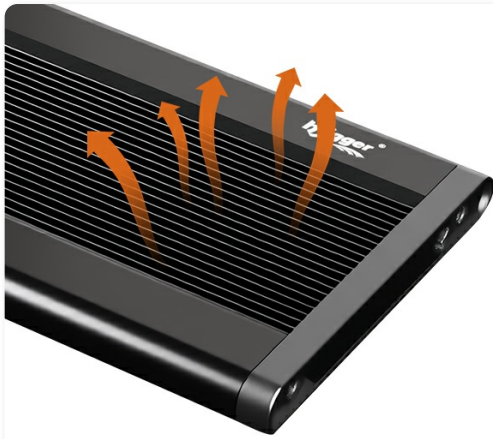
2. SETUP AND INSTALLATION

Package Contents:

- hygger 46W LED Aquarium Light fixture
- LCD Remote Controller
- Extendable Brackets (2)
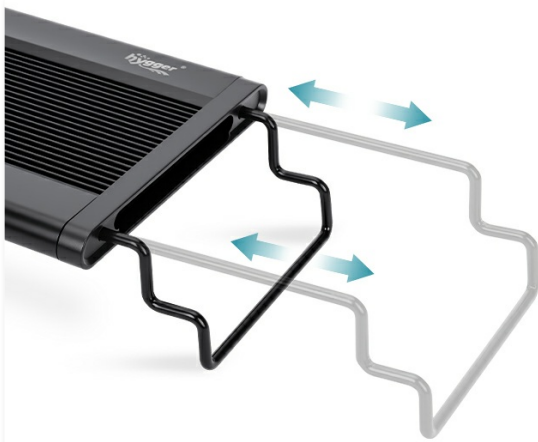- Power Adapter

Installation Steps:

1. Attach the extendable brackets to both ends of the light fixture. Ensure they are securely fastened.
2. Place the light fixture on top of your aquarium, adjusting the brackets to fit the tank's width (35-41 inches).
3. Connect the power adapter to the light fixture and then plug it into a power outlet.
4. The light will power on in a default mode. Refer to the 'Operating Modes' section to customize settings.

High Quality Aluminum Alloy Material

Built in smooth metal aluminum shell, easy to clean; Top fin texture design for efficient heat dissipation

Image: Illustration of the adjustable extendable brackets, demonstrating how they fit different aquarium sizes.

Adjustable Extendable Bracket

Perfect for different-sized aquariums within a extendable range

Image: Close-up view of the IP68 waterproof design, highlighting the silicone-sealed LEDs that protect against water vapor and droplets.

Video: This video demonstrates the IP68 waterproof feature and the full spectrum capabilities of the hygger aquarium plant light, showing its robust design and light output.

3. OPERATING MODES AND CONTROL

The hygger 46W LED Aquarium Light offers various modes to suit your aquarium's needs, all controlled via the included LCD remote.
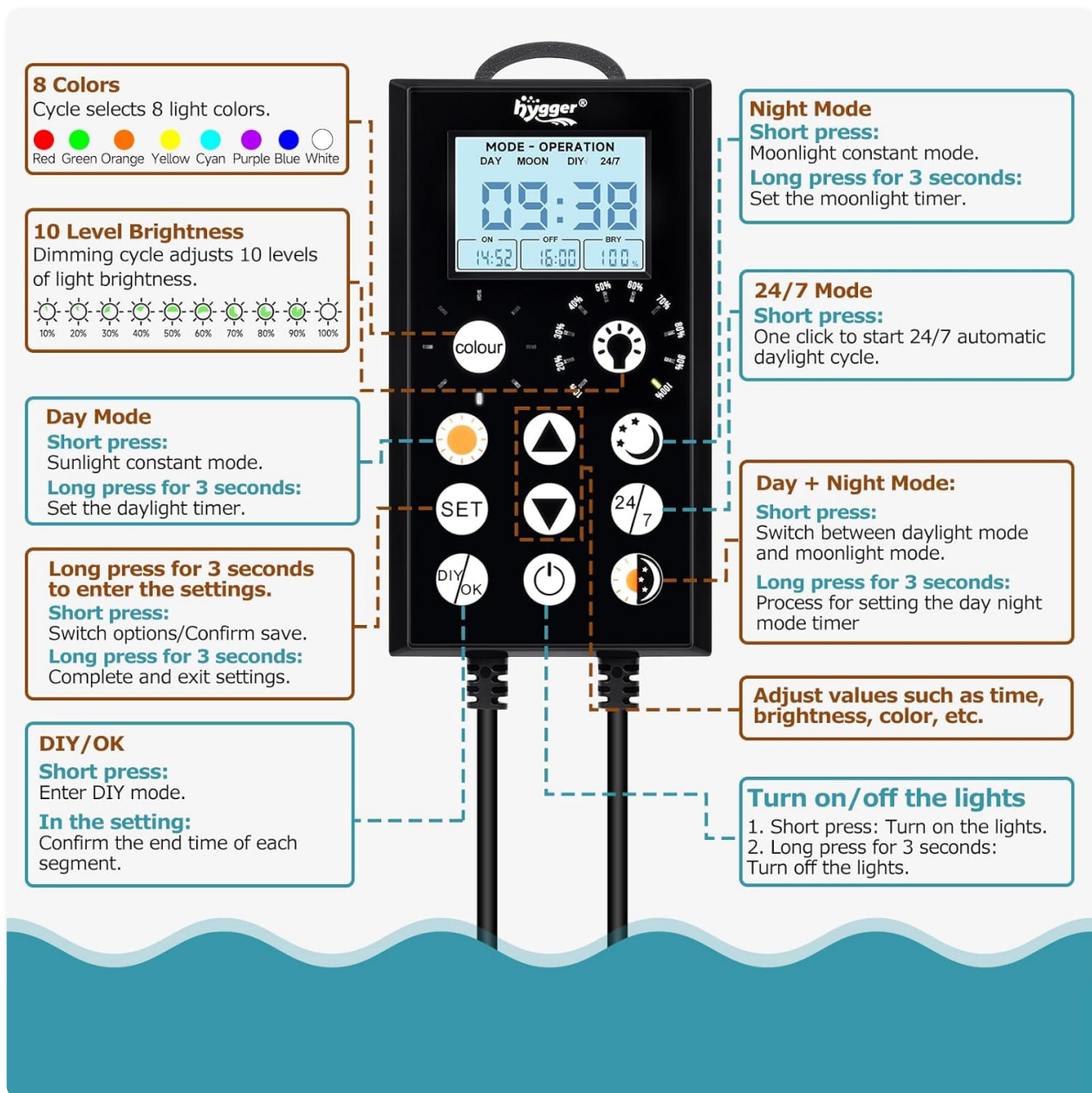
Image: Detailed diagram of the LCD Remote Controller, labeling each button and its function for easy navigation and setting adjustments.

3.1. 24/7 Default Mode

This mode simulates a natural 24-hour light cycle, gradually transitioning from dawn to daylight, dusk, and moonlight. It automatically turns on at 6:00 AM and off at 11:00 PM.

1. Press the '24/7' button on the remote to activate this mode.
2. The light will follow the preset schedule.
3. To adjust the local time, long-press the 'SET' button for 3 seconds. Use the up/down arrows to set the current hour and minute, pressing 'SET' to switch between them and confirm.
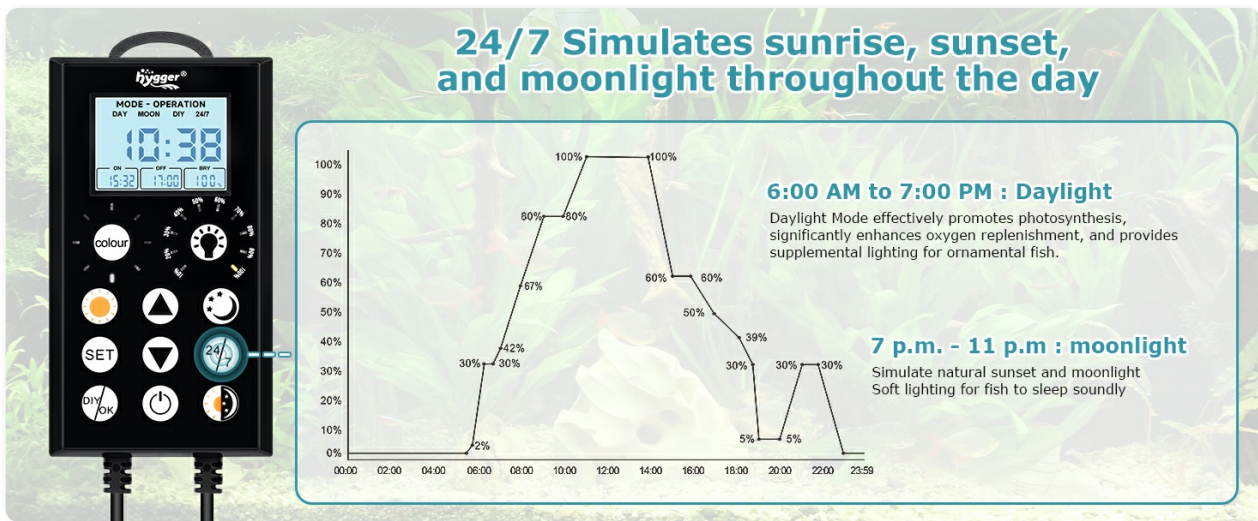
Image: A graph illustrating the 24/7 mode's light intensity and color temperature changes throughout a natural day-night cycle.

Video: This video demonstrates the automatic day and night light transitions of the hygger aquarium light in 24/7 mode, showing the gradual changes in illumination.

3.2. DIY Mode

The DIY mode allows you to customize up to 5 time segments (L1-L5) with specific start times, colors, brightness levels, and end times.

1. Press and hold the 'DIY/OK' button for 3 seconds to enter DIY mode.
2. Press and hold the 'SET' button for 3 seconds to enter the settings.
3. For each segment (L1-L5) in sequence:

   - Press ▲/▼ to set the start time (press 'SET' to switch between hours/minutes), then press 'SET' to confirm.
   - Briefly press the 'COLOR' button to select a color, then press 'SET' to confirm.
   - Briefly press the brightness button (light bulb icon) to adjust brightness, then press 'SET' to confirm.
   - Briefly press ▲/▼ to set the end time for the current segment, then press 'DIY/OK' to proceed to the next segment.

4. After setting L5, briefly press the 'DIY/OK' button to save all settings.

Image: Visual representation of the DIY 5 Stages Mode, showing how different light colors and intensities can be programmed across five distinct time segments.

Video: This video provides a step-by-step guide on how to set up and customize the DIY mode of the LED aquarium light,

3.3. Day Mode

In Day Mode, the light provides full-spectrum white light. You can set a specific start and end time for this mode and adjust its brightness.

1. Press the 'Day Mode' button (sun icon) on the remote.
2. To set the timer, long-press the 'SET' button for 3 seconds.
3. Use ▲/▼ to set the start time (hours/minutes), press 'SET' to confirm.
4. Adjust the brightness using the brightness button (light bulb icon), then press 'SET' to confirm.
5. Use ▲/▼ to set the end time (hours/minutes), then press 'SET' to confirm.

Image: The controller displaying options for Day Mode, Night Mode, and a combined Daylight & Moonlight Mode, illustrating the different lighting environments.

Video: This video demonstrates how to set the Daylight Mode on the hygger LED aquarium light, including adjusting the start time, brightness, and end time.

3.4. Night Mode

Night Mode provides a fixed blue light, with adjustable brightness, to simulate moonlight. You can set a specific start and end time for this mode.

1. Press the 'Night Mode' button (moon icon) on the remote.
2. To set the timer, long-press the 'SET' button for 3 seconds.
3. Use ▲/▼ to set the start time (hours/minutes), press 'SET' to confirm.
4. Adjust the brightness using the brightness button (light bulb icon), then press 'SET' to confirm.
5. Use ▲/▼ to set the end time (hours/minutes), then press 'SET' to confirm.

3.5. Smart Memory Function

The light features intelligent power recovery. In the event of a power outage, it will automatically restore all previous settings. After power is restored, you may need to reset the local time. If no adjustments are made within 5 minutes, the system will seamlessly resume the 24/7 automatic cycle.

Memory Function

Blackout | Day Mode | Night Mode

Smart Power-Off Protection

After powering on, the reset time reverts to the original mode.
If no operation occurs within 5 minutes, 24/7 smart lighting automatically activates.

Image: Visual explanation of the Smart Power-Off Protection and Memory Function, showing how the light restores settings after a power interruption.

4. SPECIFICATIONS

Feature	Specification
Brand	hygger
Model Name	Aquarium Light (HG160)
Wattage	46 watts
Light Source Type	LED (5050 RGB and 2835 LED array)
LED Quantity	180 (116 White, 7 Red, 16 Blue, 7 Green, 36 RGB)
Luminous Flux	1459 Lumens
Color Temperature	15745K
Color Rendering Index (CRI)	> 90

Feature	Specification
Product Dimensions	46.26 x 4.33 x 0.51 inches (117.5 cm length)
Recommended Tank Size	35-41 inch (90-105 cm) fish tank
Item Weight	2.9 Pounds
Waterproof Rating	IP68
Power Source	Corded Electric (100 Volts AC)
Control Method	Remote
Material	Aluminum (Base Material)

Image: A comprehensive table detailing product specifications across various wattage models, including LED quantity, length, lumens, color temperature, and application range.

5. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your hygger LED Aquarium Light, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the light fixture and lens with a soft, damp cloth to remove dust, water spots, and algae buildup. Ensure the light is unplugged before cleaning. Do not use harsh chemicals or abrasive materials.
- **Heat Dissipation:** Ensure the aluminum alloy shell's fin-like texture is not obstructed to allow for proper heat dissipation. Avoid placing objects on top of the light fixture.
- **Water Exposure:** While the light is IP68 waterproof, the controller unit is not. Keep the controller dry and away from water splashes.
- **Cable Management:** Ensure all cables are routed safely and are not pinched or exposed to excessive tension.

6. TROUBLESHOOTING

If you encounter any issues with your hygger LED Aquarium Light, please refer to the following common troubleshooting steps:

- **Light Not Turning On:**

    - Check if the power adapter is securely plugged into both the light fixture and the power outlet.
    - Verify that the power outlet is functional by plugging in another device.
    - Ensure the light is not in 'OFF' state or a programmed 'OFF' period in 24/7 or DIY mode.

- **Settings Not Saving After Power Outage:**

    - The light has a smart memory function. After a power outage, it should restore previous settings. However, the local time may need to be reset manually.
    - If settings are not restored, ensure you pressed 'SET' or 'DIY/OK' to confirm settings after making changes.

- **Incorrect Time Display:**

    - Long-press the 'SET' button for 3 seconds to enter time setting mode. Adjust hours and minutes using the ▲/▼ buttons and confirm with 'SET'.

- **Light Intensity Too Low/High:**

    - In Day or Night mode, adjust brightness using the brightness button (light bulb icon).
    - In DIY mode, ensure the brightness levels for each segment (L1-L5) are set correctly.

If the issue persists after following these steps, please contact hygger customer support for further assistance.

7. 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. Please retain your proof of purchase for warranty claims.

For technical support, warranty claims, or any product-related inquiries, please visit the official hygger website or contact their customer service department. Contact information can typically be found on the product packaging or the brand's official online store.

For additional resources and product information, you can visit the hygger Store on Amazon.