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hygger HG221-50W

hygger LED Aquarium Light with Timer (HG221-50W) - Instruction Manual

Model: HG221-50W

1. PRODUCT OVERVIEW

The hygger LED Aquarium Light with Timer is designed to provide optimal lighting for freshwater aquariums, supporting vibrant plant growth and reducing fish stress. It features a 24/7 mode that simulates natural sunrise and sunset, full spectrum LEDs for photosynthesis, and dual pre-programmed modes for customizable lighting. The light includes an adjustable bracket for various tank sizes, a durable aluminum alloy housing for efficient heat dissipation, and an IPX4 splash-proof design with power-off memory functionality.

2. PACKAGE CONTENTS

- 1 x hygger LED Aquarium Light (HG221-50W)
- 1 x Power Adapter
- 2 x Extendable Brackets
- 1 x User Manual

24 Hour Remote Control

Timer+Color+Brightness

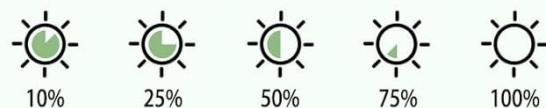


Moon-Light Timer

4 Timer Options



5 Level Brightness



Power/Mode Button

- Press once to turn on, press and hold (3s) to turn off
- Press to cycle 10 colors (Quick double press switches to full spectrum)



Day-Light Timer (simulates sunrise, full spectrum and sunset)

6 Timer Options



Image: Hygger LED Aquarium Light with its components: the light bar, inline controller, power adapter, and adjustable brackets.

3. SPECIFICATIONS

Feature	Detail
Model	HG221-50W
Wattage	50 Watts
Light Source Type	LED (5050/2835 LEDs)
Color Temperature	6500K White, 665nm Red, 460nm Blue
Color Rendering Index (CRI)	>92
Brightness Levels	5 (10%-100%)
Color Options	10 colors + Full Spectrum

Timer Modes	Day-L (2H/4H/6H/8H/10H/12H), Moon-L (4H/6H/8H/12H), 24/7 Mode
Gradual Transition	15-minute gradual sunrise/sunset
Tank Compatibility	48-52 inch tanks
Material	Aluminum Alloy Shell
Waterproof Rating	IPX4 Splash-proof
Special Features	Power-Off Memory, Extendable Brackets

① Mode function: Mode (M) + Dimmer (W) Setting

- Step 1: Press  to switch the light on, and press again to select a desired light color; you can choose from nine different light colors : full spectrum-red-blue-green-pink-yellow-cyan-orange-white-random color cycling.
- Step 2: Then press  on to adjust brightness in the following five levels (10%-25%-50%-75%-100%).

Note: In Mode mode, the color and brightness can be adjusted using the Moon-L button.

② Mode (M) + Dimmer (W) + Moon-L (D) = DIY Moon-L Timer (4H/6H/8H/12H)

- Press  to choose a single color, the  button to adjust the light brightness, and the  button to set a timer as needed. Indicator lights will activate, and the device will operate according to your customized color and timer settings.

Daylight Mode Button: 24-hour cycle daylight mode simulates the natural daytime progression (sunrise, full spectrum, sunset, and lights off) over the aquarium. During the first 15 minutes, orange light intensity gradually increases until transitioning to white light. During the final 15 minutes, orange light intensity gradually decreases.

① Press the button briefly to cycle through lighting durations: 2H->4H->6H->8H->10H->12H->all indicator lights off, exiting daylight mode.

② Long press (Day-L button), the indicator light flashes. Adjust brightness using the dimmer button. Confirmed by illuminated indicators, which activate the set brightness.

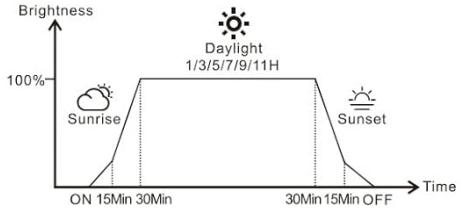
6.PACKING LIST

- 1x LED light
- 1x AC/DC power adapter
- 2x Extendable metal bracket
- 1x User manual

③ Day-L Setting (2H/4H/6H/8H/10H/12H)

- Press  button to set 2H, 4H, 6H, 8H, 10H and 12H timers for the daylight setting. During the first 15 minutes of operation, the orange light intensity gradually increases until transitioning to white light. During the final 15 minutes, the orange light intensity gradually decreases.

The timer(2H, 4H, 6H, 8H, 10H, 12H) light chart is as follows:

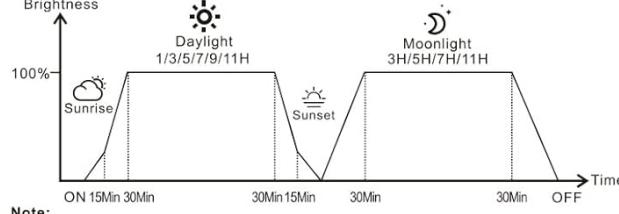


④ Day-L (2H/4H/6H/8H/10H/12H) + Moon-L (4H/6H/8H/12H) setting :Operates dual timers for daylight and moonlight.

- Press  , the indicator light flashes to select the desired timer. To adjust brightness, long-press this button until the indicator light flashes rapidly, then use dimmer button  to set the intensity.
- Press  to select night timer(4H/6H/8H/12H).

Note: Before activating the night timer, first set the color and brightness in the Mode, and the light will run the color and brightness settings in the Mode.

The Day-L timer (2H/4H/6H/8H/10H/12H) light chart + Moon-L timer (4H/6H/8H/12H) light chart are as follows:



Note:

1. The timer countdown resets to 0 upon power disconnect or timer duration adjustments.
2. Daylight mode ONLY can adjust brightness. Moonlight mode offers customizable settings for timing, color, and brightness.

Image: Aquarium Light Size Chart for various models, including the 50W model for 48-52 inch tanks.

4. SETUP INSTRUCTIONS

4.1 Mounting the Light

1. Attach the extendable brackets to both ends of the light bar.
2. Place the light bar on top of your aquarium. Adjust the brackets to fit the width of your tank (48-52 inches for the 50W model). Ensure the light is securely seated on the tank edges.

Image: Adjustable brackets allow the light to fit various aquarium widths.

4.2 Connecting Power

1. Connect the power adapter to the inline controller.
2. Plug the power adapter into a standard 100-240V electrical outlet.

5. OPERATING INSTRUCTIONS

5.1 Control Panel Overview

Full Spectrum Aquarium Light for Healthy Plants & Fish

2835 LED Bulbs+5054 RGB Bulbs

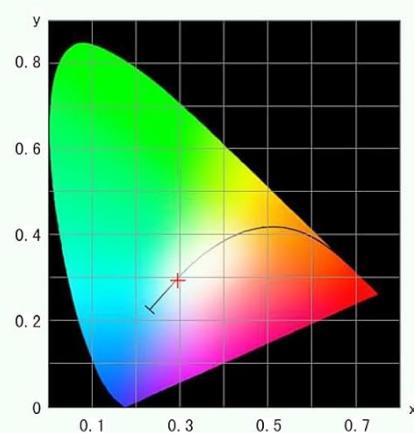
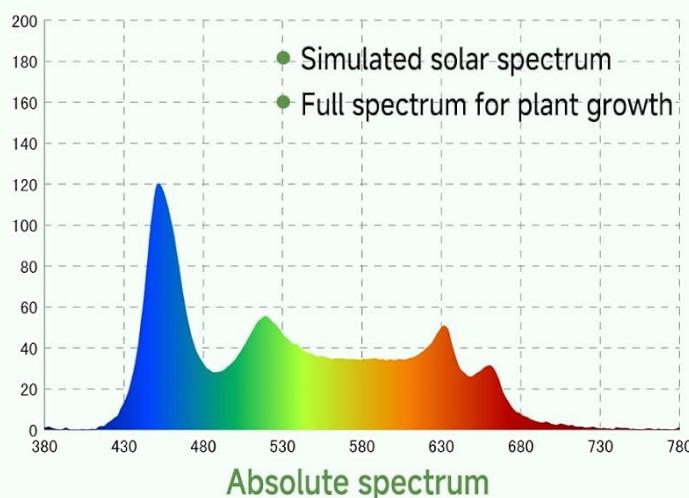
50W

LED quantity: **186 PCS**

White: **120** Red: **12**

Green: **12** Blue: **12**

RGB: **30** CRI: **>92**



Chromaticity diagram

Image: Inline controller with Moon-L, Dimmer, Power/Mode, and Day-L buttons.

- **Moon-L Button:** Activates moonlight mode and sets its duration (4H/6H/8H/12H).
- **Dimmer Button:** Adjusts light brightness (5 levels: 10%-100%).
- **Power/Mode Button:** Turns the light on/off, cycles through 10 colors, and activates full spectrum mode.
- **Day-L Button:** Activates daylight mode and sets its duration (2H/4H/6H/8H/10H/12H).

5.2 Power On/Off

- Press the **Power/Mode** button once to turn the light on.
- Press and hold the **Power/Mode** button for 3 seconds to turn the light off.

5.3 Color Adjustment

- With the light on, press the **Power/Mode** button repeatedly to cycle through 10 different colors (Full Spectrum, Red, Blue, Green, Pink, Yellow, Cyan, Orange, White, Random Color Cycling).
- Double-press the **Power/Mode** button quickly to switch directly to full spectrum white light.



Image: Visual representation of the 10 color options.

5.4 Brightness Adjustment

- With the light on, press the **Dimmer** button to cycle through 5 brightness levels: 10%, 25%, 50%, 75%, and 100%.



Image: Brightness levels from 10% to 100%.

5.5 Day-L Timer Setting

1. Press the **Day-L** button to select the desired timer duration (2H/4H/6H/8H/10H/12H). The indicator light will flash to confirm.
2. Long-press the **Day-L** button until the indicator light flashes rapidly. Then use the **Dimmer** button to set the desired brightness.
3. The light will gradually increase in intensity over the first 15 minutes (orange light to full spectrum) and gradually

decrease over the final 15 minutes (orange light to off) to simulate sunrise and sunset.

5.6 Moon-L Timer Setting

1. Press the **Moon-L** button to select the desired timer duration (4H/6H/8H/12H). The indicator light will flash to confirm.
2. Long-press the **Moon-L** button until the indicator light flashes rapidly. Then use the **Dimmer** button to set the desired brightness.
3. The light will gradually increase in intensity over the first 15 minutes and gradually decrease over the final 15 minutes.

5.7 24/7 Mode (Automated Daylight Cycle)

The 24/7 mode combines the Day-L and Moon-L timers to simulate a natural day-night rhythm. This mode automatically transitions through sunrise, full spectrum daylight, sunset, and moonlight phases.

1. First, set your desired color and brightness in **Power/Mode** and **Dimmer**.
2. Then, select your preferred **Day-L** timer duration.
3. Finally, select your preferred **Moon-L** timer duration. The light will operate according to your customized color and timer settings.



Image: Dual timer modes for Day and Night, with customizable settings.



Image: 24/7 Natural Mode simulating light phases with gradual transitions.

5.8 Power-Off Memory

The light features a power-off memory function. In case of a power outage, the light will retain its last settings and resume operation once power is restored.

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Video: Official hygger video demonstrating the features and operation of the HG221 LED Aquarium Light with Timer, including color changes, brightness levels, and timer settings.

6. MAINTENANCE

- Cleaning:** Regularly wipe the light bar with a soft, damp cloth to remove dust and water spots. Do not use harsh chemicals or abrasive materials.
- Splash-proof:** The light is IPX4 splash-proof, meaning it is resistant to water splashes from any direction. However, it is not fully submersible. Do not immerse the light in water.
- Heat Dissipation:** The aluminum alloy shell is designed for efficient heat dissipation. Ensure adequate airflow around the light to prevent overheating.



7. TROUBLESHOOTING

- Light not turning on:** Check if the power adapter is securely connected to both the light and the electrical outlet. Ensure the outlet is functional.
- Light flashing or erratic behavior:** This could indicate a power supply issue or potential overheating. Ensure the light is not covered and has proper ventilation. Try unplugging and replugging the power adapter. If the issue persists, contact customer support.
- Timer not working as expected:** Ensure you have correctly set both the desired duration and brightness for Day-L and Moon-L modes. Remember that the timer countdown resets to 0 upon power disconnect or timer duration adjustments.
- Light feels hot:** While the aluminum housing is designed for heat dissipation, prolonged use can make it warm. If the light feels excessively hot to the touch or exhibits erratic behavior, unplug it immediately and contact customer support.

8. WARRANTY AND SUPPORT

This hygger aquarium light comes with a 2-year manufacturer's warranty. For any product inquiries, technical support, or warranty claims, please refer to the contact information provided in your product packaging or visit the official hygger website.

