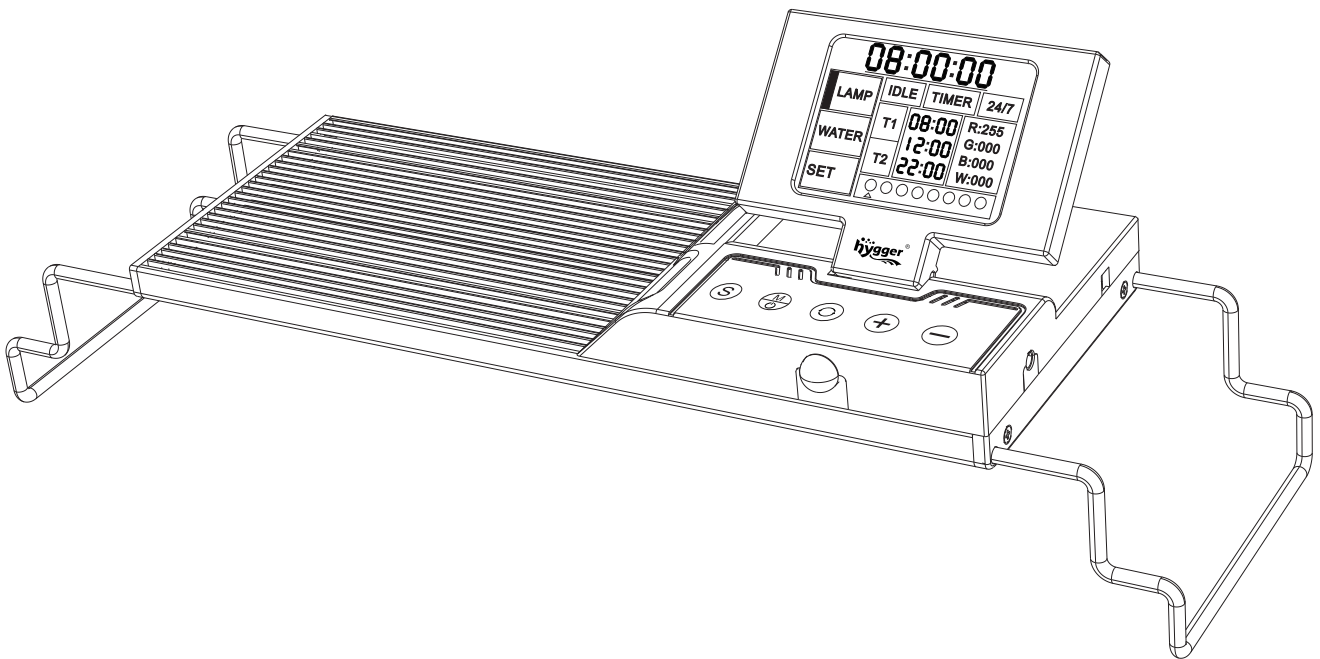




HGY0007 USER MANUAL

hygger AquaSense Aquarium Light



It is the best choice to light your aquarium. We have many years of professional technology and are one of the pioneers in full-spectrum lighting. This lighting is easy to use and convenient to set up. It is very suitable for beginners who want to light their first aquarium and for professionals who wish to upgrade their lighting. Please read this manual carefully before using it and in strict accordance with the manual use.

1.PRODUCT FEATURES

- **Lighting Control:** Users can set and switch lighting parameters and timing modes via a 2.8-inch (240*320mm) TFT display and touch keys. The hygger LED light has ten brightness levels and eight different colors (Red, Green, Blue, Orange, Yellow, Cyan, Purple, White), and four color channels (red, green, blue, white). Color brightness can be adjusted to support different lighting needs and applications.
- **Built-in LCD Monitor for Easy Programming:** The display has two independently controllable time phases (T1 and T2) to simulate sunrise and sunset.
- **Intelligent Sensing Technology:** Utilizing a pyroelectric infrared sensor, when a human presence is detected within 0.8 meters of the light, the motor-driven screen rotation mechanism automatically lifts the screen to display the current interface content for user viewing and operation. In the event of absence (>1 minute outside 0.8 m), the screen automatically retracts and switches off, achieving energy efficiency and intelligent human-machine interaction.
- **Water Quality Detection:** By inserting the probe of the water quality sensor into water and connecting the sensor cable to the 3.5mm jack on the middle right side of the lamp body, users can view real-time on-screen data including water temperature (TEMP), electrical conductivity (EC), total dissolved solids (TDS), and salinity (SAL). If the probe is damaged, has poor contact, or is disconnected, the Water interface will not display water quality data, and users need to check the sensor cable and probe status.
- **Energy efficiency:** The high color rendering index with efficient lighting minimizes energy consumption. Paired with a DC adapter, it provides safer and more stabilized power delivery.
- **Extendable Bracket:** The extendable bracket allows the light to accommodate a wide range of aquarium sizes.
- **Ideal for Planted and Freshwater Aquariums:** This LED light provides a full spectrum of light essential for growing healthy aquatic plants.
- **Lamp Housing Material:** The housing of this aquarium light is made of aluminum, offering excellent heat dissipation, corrosion resistance, metallic texture, and aesthetic appeal.

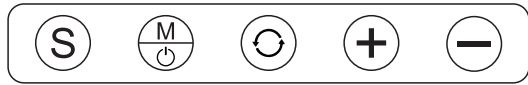
2.PRODUCT SPECIFICATIONS

Model	HGY0007-18W	HGY0007-24W	HGY0007-30W
Input Voltage	AC 100-240V	AC 100-240V	AC 100-240V
Output Voltage	DC 12V/1.5A	DC 24V/1A	DC 24V/1.5A
Light Size	10.8 inches (27.5 cm)	16.7 inches (42.5 cm)	22.6 inches (57.5 cm)
Applicable Aquarium Size	12-18 inches (30-45cm)	18-24 inches (45-60cm)	24-30 inches (60-75cm)
LED Quantity	White: 42PCS	White: 60PCS	White: 71PCS
	Red: 2PCS	Red: 4PCS	Red: 4PCS
	Blue: 2PCS	Blue: 4PCS	Blue: 5PCS
	Green: 2PCS	Green: 4PCS	Green: 4PCS
	RGB: 12PCS	RGB: 18PCS	RGB: 24PCS
	Total: 60PCS	Total: 90PCS	Total: 108PCS
Lumen	810lm	1095lm	1375lm
Color Rendering Index	90	90	90
Color Temp	16568K	14207K	15755K
Probe Cable Length	1.6ft (0.5m)	1.6ft (0.5m)	1.6ft (0.5m)
Power Cord Length	1.6ft+4.9ft (0.5m+1.5m)	1.6ft+4.9ft (0.5m+1.5m)	1.6ft+4.9ft (0.5m+1.5m)

Model	HGY0007-42W	HGY0007-48W	HGY0007-60W
Input Voltage	AC 100-240V	AC 100-240V	AC 100-240V
Output Voltage	DC 24V/2A	DC 24V/2A	DC 24V/2.5A
Light Size	28.5 inches (72.5 cm)	34.5 inches (87.5 cm)	46.3 inches (117.5 cm)
Applicable Aquarium Size	30-36 inches (75-90cm)	36-42 inches (90-105cm)	48-55 inches (120-140cm)
LED Quantity	White: 101PCS	White: 122PCS	White: 158PCS
	Red: 6PCS	Red: 7PCS	Red: 11PCS
	Blue: 7PCS	Blue: 8PCS	Blue: 12PCS
	Green: 6PCS	Green: 7PCS	Green: 11PCS
	RGB: 30PCS	RGB: 36PCS	RGB: 48PCS
	Total: 150PCS	Total: 180PCS	Total: 240PCS
Lumen	1885lm	2218lm	2480lm
Color Rendering Index	90	90	90
Color Temp	12781K	15745K	16227K
Probe Cable Length	1.6ft (0.5m)	1.6ft (0.5m)	1.6ft (0.5m)
Power Cord Length	1.6ft+4.9ft (0.5m+1.5m)	1.6ft+4.9ft (0.5m+1.5m)	1.6ft+4.9ft (0.5m+1.5m)

3. INSTRUCTIONS

3.1 Key Function



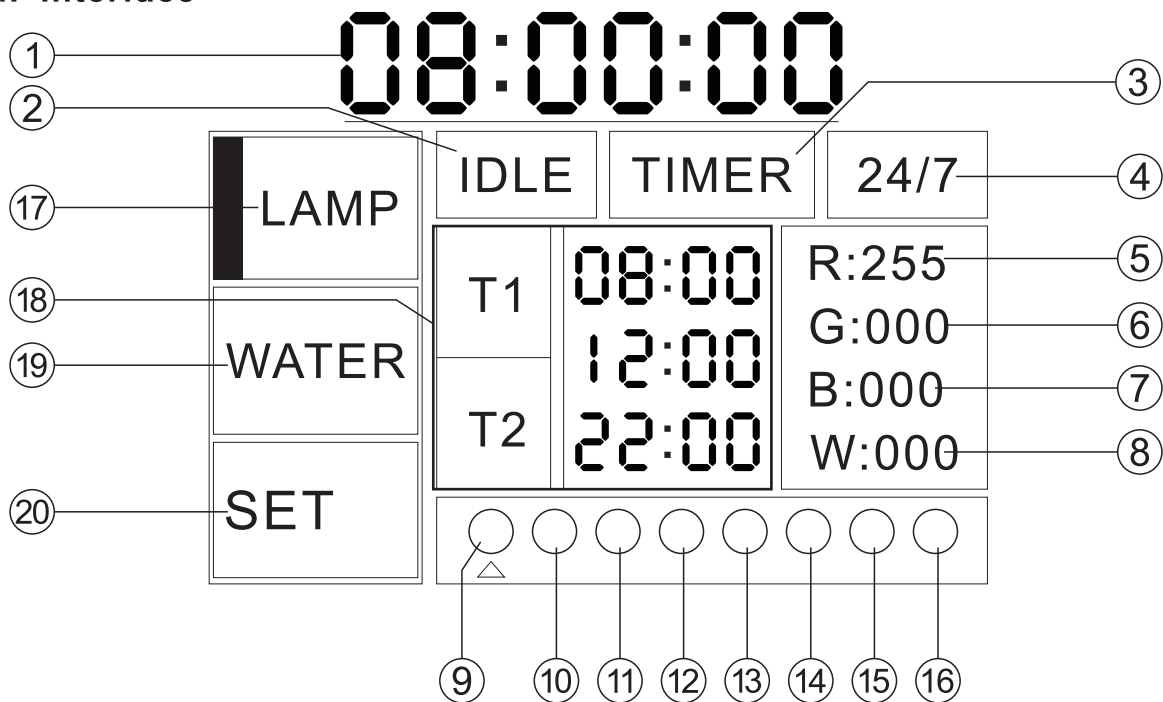
(S) Page/Setting Key: Short press to page through LAMP, WATER, and SET interfaces. Long-press to enter the time setting in the LAMP interface or the parameter setting in the SET interface.

(M) Mode/Power Key: First short press: Powers on the light. Then press to cycle through lighting modes (IDLE/TIMER/24/7) under LAMP interface. Long press: Powers off the light.

(Refresh) Color/T1/T2 Switching Key: Short press to cycle through 8 colors + RGBW color value in IDLE mode. Long press to switch between time phases T1 (daylight) and T2 (nightlight) in IDLE mode.






(+ -) Parameter Adjustment Key: Adjusts time, color, brightness, and related settings.

3.2 LAMP Interface

















- | | | |
|-----------------------|-----------------------|--|
| ① Local time | ⑧ Color value (white) | ⑮ Purple |
| ② IDLE Mode | ⑨ Red | ⑯ White |
| ③ TIMER Mode | ⑩ Green | ⑰ LAMP interface |
| ④ 24/7 Mode | ⑪ Blue | ⑱ T1/T2 time phases & lighting durations |
| ⑤ Color value (red) | ⑫ Orange | ⑲ WATER interface |
| ⑥ Color value (green) | ⑬ Yellow | ⑳ SET interface |
| ⑦ Color value (blue) | ⑭ Cyan | |

3.2.1 Time Setting

Long press  to set the lighting duration in time phases T1 and T2 in the current interface. Short press  to switch between hours and minutes. Use  or  key to adjust the values. Long press  to save the settings and exit setup. T1 and T2 (as shown in the diagram) stand for day and night lighting respectively.

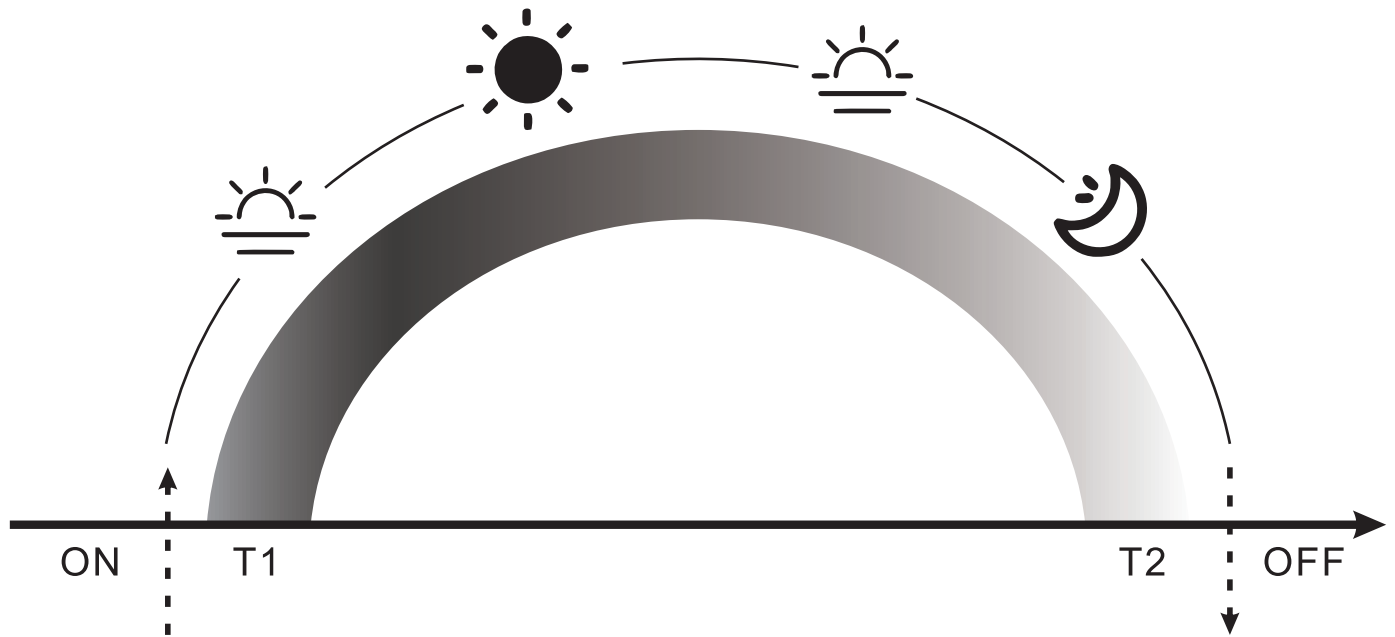
Example:In TIMER mode, using the time in the diagram as reference, T1 lighting activates at 8:00 am and turns off at 12:00, then T2 lighting activates and remains active until shutdown at 22:00 (10:00 pm).

3.2.2 IDLE Mode, TIMER Mode, 24/7 Mode Settings

①**IDLE Mode:** No working schedule configuration required. Short press  to select from 8 fixed colors (activated color indicated by a triangle displayed below it): Red, Green, Blue, Orange, Yellow, Cyan, Purple, White. R/G/B/W channels display the individual color value of selected color. Short press  or  to adjust brightness (10 levels: 0-255, proportional increments/decrements). If none of the preset 8 colors meet requirements, short press  to activate R/G/B/W custom color configuration. Users may skip custom configuration with a short press of , or short press  or  for individual color value of R/G/B/W. Subsequent short press of  to cycle color value through R/G/B/W and short press  or  for individual color value of R/G/B/W. Three methods to save and exit R/G/B/W custom color configuration: Long press , short press  to page, or short press  to switch modes. The lighting parameters of time phases T1/T2 can be configured by long pressing  to toggle between T1 and T2 in IDLE mode, and the lighting parameters for T1/T2 must be configured respectively.

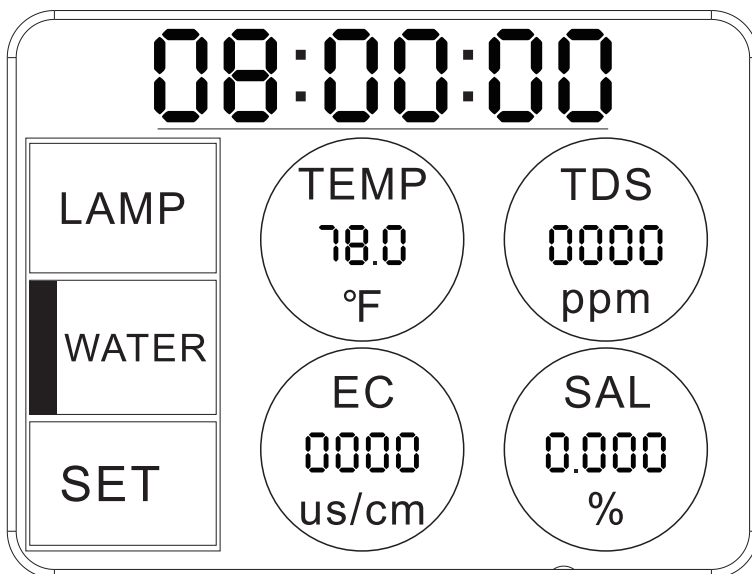
②**TIMER Mode:** In this mode, the light operates within predefined T1 (daylight) and T2 (nightlight) phases. The light only activates lighting during configured working hours and deactivates outside these phases. When operating in this mode, lighting parameters can only be configured for the current active phase. For example, the lighting parameters can only be configured during time phase T1. Configuration of T2 lighting parameters requires prior setup in IDLE mode.

③ **24/7 Mode:** In this mode, the light activates lighting only during set time phases and deactivates otherwise. It simulates a natural ecological daylight cycle: T1 Phase - Sunrise, gradual brightening to peak daylight, sustained peak brightness, gradual dimming to sunset. T2 Phase - Sunset to moonlight, gradual brightening of moonlight, gradual dimming to shutoff. (as shown in the following diagram)

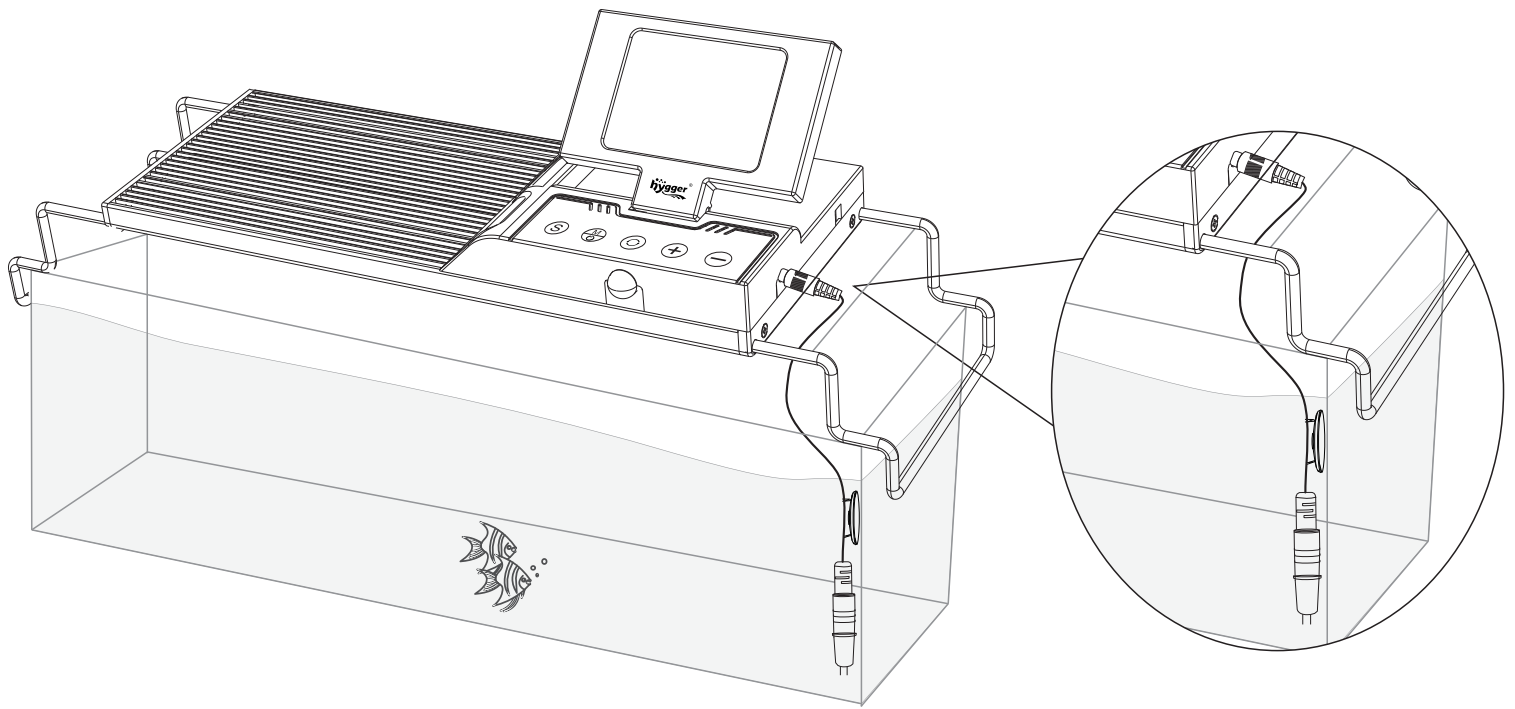


Note: The light automatically saves current configurations (working hours, mode, color, brightness, screen orientation [upright/flat], and power status [ON/OFF]) 5 seconds after the last key operation when no subsequent operations are detected.

3.3 WATER Interface

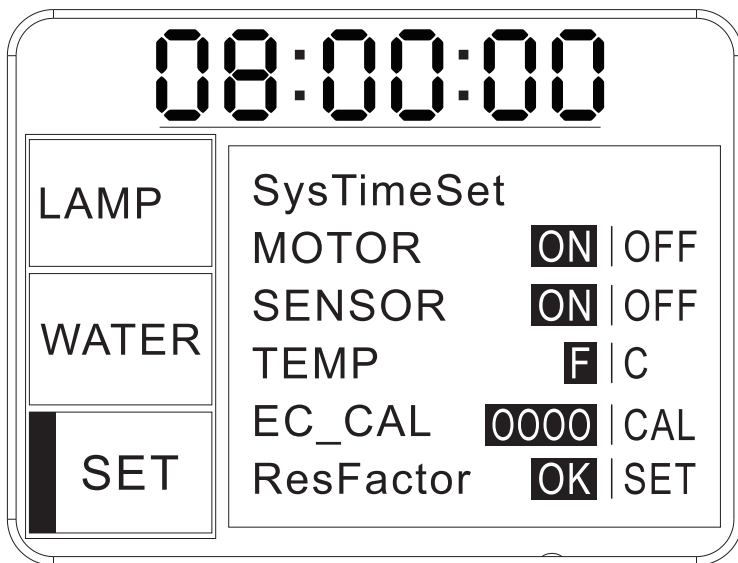


The WATER interface displays water quality parameters: Temperature (TEMP), Electrical Conductivity (EC), Total Dissolved Solids (TDS), and Salinity (SAL). This interface is non-configurable.



The above is a water quality sensor probe connection diagram. Note: Correct operation requires first submerging the probe end into water, then connecting the sensor cable to the 3.5mm jack on the middle-right side of the lamp body. Real-time water quality data will be displayed on the screen. This sensor is compatible with freshwater aquariums but not suitable for saltwater tanks. If the probe is damaged, has poor contact, or is disconnected, the Water interface will not display water quality data, and users need to check the sensor cable and probe status or clean the probe promptly.

3.4 SET Interface







In SET interface: Long press (S) to enter setup, then short press (S) to cycle through settings: Sys Time Set, MOTOR, SENSOR, TEMP, EC-CAL, Res Factor. Short press (+) or (-) to adjust levels, then short press (S) to confirm and proceed to next setting. After completion, long press (S) to exit current interface.

① **System Time (Sys Time Set):** The default time is 08:00:00.




Short press  or  to increase or decrease time, and long press to rapid adjust time.

② **Motor Switch (MOTOR):** Default ON. Switch to OFF to deactivate motor operation and disable automatic screen lowering.

③ **PIR Sensor (SENSOR):** Default ON. Switch to OFF to disable sensor (The screen does not go blank automatically). Long press  to power off/blank screen, short press  to power on/illuminate screen.

④ **Fahrenheit/Celsius (TEMP):** Default Fahrenheit. Short press  or  to select the desired temperature unit.

⑤ **EC Calibration (EC-CAL):** Default uses lab-standard reference values.

Short press  or  to adjust EC value, then short press  to initiate calibration (CAL indicator displayed on the screen). The updated EC value is displayed automatically after calibration.

⑥ **Factory Reset (Res Factor):** Short press  or  to erase user-saved data and reset to initial values.

4.ATTENTIONS

√ Please read this user manual carefully before use and follow it strictly.

√ Please keep the switch away from water since it is not waterproof.

√ Please keep the light away from flammable items to avoid accidents.

√ Please unplug the power and contact the seller if the light is not working properly.

****OPENING WILL VOID WARRANTY****

√ Please unplug the power before maintenance.

√ Please mind that the temperature range for the light is between 23°F~113°F (-5°C~45°C).

5.WARNING

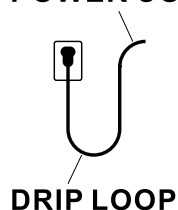
To avoid possible electric shock, do not immerse the switch in the water. If the switch falls into the water or becomes wet, do not touch it until you have unplugged it. Basic safety precautions that should be observed are as follows:

1. Read and follow this user manual strictly.

2. DANGER- To avoid possible electric shock, special care should be taken since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt to repair yourself. Instead, return the light to an authorized service facility for maintenance or discard it.

- A. If the light falls into the water, DO NOT touch it. First unplug it, then retrieve it. If electrical components of the light get wet, unplug it immediately.
- B. Carefully examine the light after installation. It should not be plugged in if there is water on parts that are not intended to be wet.
- C. Do not operate the light if it has a damaged cord or plug, is malfunctioning, dropped, or damaged in any manner. The power cord of this light cannot be replaced. If the cord is damaged, the light should be discarded.
- D. To avoid the possibility of the light plug getting wet, position the aquarium and its stand to one side of a wall mounted outlet to prevent water from dripping onto the outlet or plug. A “drip loop”, shown in the figure below, should be arranged by the user for each cord, which connects the light to the outlet. If an extension cord is used, the “drip loop” is the part of the cord below the level of the outlet or the connector that prevents water from traveling along the cord and coming in contact with the outlet. If the plug or outlet does get wet, DO NOT unplug the cord. Disconnect the fuse to the circuit breaker that supplies power to the light. Then, unplug and examine for the presence of water in the outlet. If you are not sure, consult a certified electrician.

POWER CORD



- 3. Close supervision is necessary when the light is used near children.
- 4. To avoid injury, do not contact moving or hot parts.
- 5. Make sure the light is securely installed before operating it.
- 6. Read and observe all the important notices on the light.
- 7. If an extension cord is necessary, a cord with a proper rating should be used, such as rated amperes or watts. A cord rated for fewer amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
- 8. The light is intended FOR HOUSEHOLD USE ONLY.
- 9. SAVE THIS USER MANUAL.

6.DISPOSAL

Do not dispose of this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary. This product has to be disposed of at an authorized place for the recycling of electrical and electronic appliances rather than being disposed of together with the domestic waste. Collecting and recycling waste is a way of saving natural resources. So, please consult with your local seller to make sure the product is disposed of in an environmentally friendly way.



7.PACKING LIST

1x Light

1x Adapter

1x Water Quality Sensor Probe

2x Bracket

1x User manual

1x Fixing suction cup for the probe

8.CONTACT INFORMATION

E-mail: service@hygger-online.com

Website: www.hygger-online.com

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