

9. DISPOSAL

Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary. This product must not be disposed together with the domestic waste. This product has to be disposed at an authorized place for recycling of electrical and electronic appliances. By collecting and recycling waste, you help save natural resources, and make sure the product is disposed in an environmental friendly and healthy way.



10. Contact information:

Website: www.hygger-online.com
E-mail: mago@hygger-online.com

Thank you for choosing hygger, making aquarium keeping easier one product at a time.
If you have any problems or suggestions for the aquarium light, please contact us by email before leaving feedback or opening a case, it will be the fastest way to solve your problem. If you are satisfied with the aquarium light, please leave positive feedback for our product, in order to let more customers enjoy it. Thanks again!

Brand owner: Shenzhen MagoTrading Co., Ltd
Add: Bantian Group Business Central, Longgang District, Shenzhen City, Guangdong Province, China
E-mail: mago@hygger-online.com
Website: <http://www.hygger-online.com>



EC	REP	Puhai Import und Export GmbH Bismarckstraße 65 Frankfurt(oder) 15234 Briefkasten: admin@puhai-jk.de Telefonnummer: +03381-2697990
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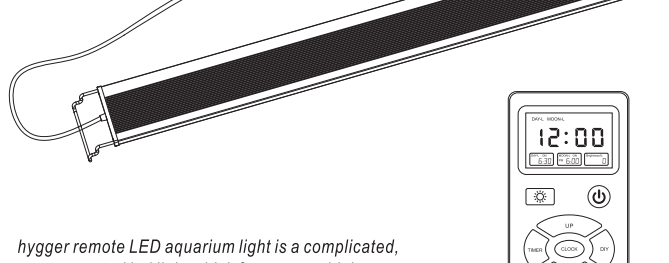
MADE IN CHINA

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hygger®

HG-016 USER MANUAL

hygger remote control LED aquarium light



hygger remote LED aquarium light is a complicated, remote control led light which features multiple weather simulation options: sunrise, sunset, stormy, etc. With remote, advanced aquarists can create a customized lighting for its own need. Please read this manual carefully before using and follow strictly in accordance with the manual.

For additional help, please email us:

E-mail: mago@hygger-online.com

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1. PACKAGE INCLUDED:

- 1 x Led Light
- 1 x LCD Remote Control
- 1 x DC Power Supply
- 2 x Metal Brackets
- 1 x User Manual

NOTE: If you LED light is missing any parts, please contact us directly with your order number, mago@hygger-online.com

2. INSTRUCTIONS

STEP 1- Remote LED Light Installation

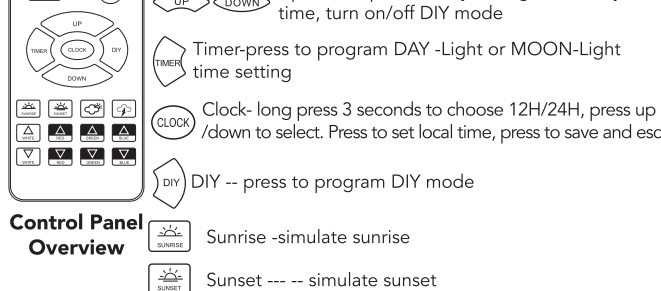
- Unpack light fixture and components.
- Slide the adjustable legs on the side of the light fixture to match the length of aquarium.
- Set fixture on aquarium and ensure metal brackets fit snug on edges of aquarium-or slide end of wire mounts into rimless tank brackets until they snap into place.

STEP 2- Remote Controller Installation

- IMPORTANT: Plug-in light before mounting controller
- Remove plastic cover from remote controller
- Install 2 (3A) batteries

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STEP 3- Remote Light Overview



Control Panel Overview

- Sunrise -- simulate sunrise
- Sunset --- -- simulate sunset
- Cloud -- simulate cloud
- Lighting -- simulate thunder
- White up -- turn up brightness of white
- Red up -- turn up brightness of red
- Green up -- turn up brightness of green
- Blue up -- turn up brightness of blue
- White down -- turn down brightness of white
- Red down -- turn down brightness of red
- Green down -- turn down brightness of green
- Blue down -- turn down brightness of blue

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RF Remote Controller: suitable for receiving and transmitting signals at a distance in 10 meters, and can be remote controlled through the wall.

Set local time

- Power on, hold the **CLOCK** until you see "12H" flashes, then press **UP** or **DOWN** to select 12 hours system or 24 hours system.
- Press **CLOCK** until you see "12" flashes, then press **UP** or **DOWN** to set the hours
- Press **CLOCK** until you see "00" flashes, then press **UP** or **DOWN** to set the minute
- Press **CLOCK** button, complete the local time setting.

hygger remote LED light controller features two timer functions:

- DIY mode for playing a custom scene with 8 sections ON/OFF time, selected light color and brightness.
- DAY-L/MOON-L mode for running a gradual sunrise, daylight, sunset, and moonlight programmed around a daily ON/OFF time.
- Weather mode for stimulating sunrise, sunset, cloudy, thunderstorm, you have

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DAY-L/MOON-L mode

A. DAY-L setting

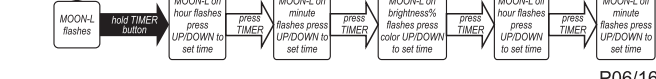
- press **DAY-L ON** flashing, press and hold **DAY-L ON** until hours of "DAY-L ON" flashing, press **UP** or **DOWN** to set the hours.
- press **DAY-L ON** minute of "DAY-L ON" flashing, press **UP** or **DOWN** to set the minute.
- press **DAY-L ON** until brightness flashing, then press these 4 light color button to set each light color's brightness. when you press **W**, **R**, **G**, **B** flashes on the brightness interface.
- press **DAY-L OFF** until the hours of "DAY-L OFF" flashing, press **UP** or **DOWN** to set the minute.
- press **DAY-L OFF** until the minute of "DAY-L OFF" flashing, press **UP** or **DOWN** to set the minute.
- press **DAY-L OFF** to save your setting.

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B. MOON-L setting

- press **DAY-L ON** flashing, press **DAY-L ON** again, "MOON-L ON" flashing.
- Hold **DAY-L ON** until hours of "MOON-L ON" flashing, press **UP** or **DOWN** to set the minute.
- press **DAY-L ON** minute of "MOON-L ON" flashing, press **UP** or **DOWN** to set the minute.
- press **DAY-L ON** brightness flashing, then press these 4 light color button to set each light color's brightness. press **DAY-L ON** until the hours of "MOON-L OFF" flashing, press **UP** or **DOWN** to set the minute.
- press **DAY-L ON** minute of "MOON-L OFF" flashing, press **UP** or **DOWN** to set the minute.
- press **DAY-L ON** to save your setting.

DAY-L/MOON-L mode setting Flow Chart



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ATTENTION:

All four LED's colors (white, red, green, blue) are adjustable in intensity in steps from 0 to 25%. you can control the light intensity from very dim to extremely bright. 0% means no light. 25% brightness of every single color is the most bright of each light. It depends on how you arrange light color and brightness.

For example, you prefer 17% white and 10% blue light, then you can see 27% brightness at the display, and W for white, B for blue. Press **W**, **B**, **R**, **G**, **B** all these button until the brightness display, W R G B disappear. Then press **W** to 17% brightness, Press **B** to 27% brightness.

DIY mode

- press and hold **DIY** until "DIY" flashing, then press **UP** or **DOWN** to turn on/off DIY mode.
- after turned on DIY mode, you can see L1 displays on LCD screen, press **DIY**, hour of L1 ON flashes, you can press **UP** or **DOWN** to adjust hour of L1 ON press **DIY** again, minute of L1 flashes, you can press **UP** or **DOWN** to adjust minute of L1 ON time.

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- press **DIY** again, hour of L1 OFF time flash, press **UP** or **DOWN** to adjust hour of L1 OFF time, press **DIY** again, minute of L1 flashes, you can press **UP** or **DOWN** to adjust minute of L1 OFF time.
- press **DIY**, Brightness flashing, then you can press these 4 light color button to increase or decrease the brightness of four colors.
- press **DIY** to set L2, L2 ON time is the L1 OFF time, and so on for L3-L8, so you just need to set L2 OFF time, the hour of L2 OFF time flashes, you can press **UP** or **DOWN** to adjust hour of L2 OFF time, press **DIY**, the minute of L2 OFF time flashes, you can press **UP** or **DOWN** to adjust minute of L2 OFF time, press **DIY**, the brightness flashes, then you can press these 4 light color button to increase or decrease the brightness of four colors. Repeat the flow above to set L3-L8.
- And so on to finish setting L7. The start time of L8 is the end time of L7, and the end time of L8 is one minute before the start time of L1, take note that L1-L8 must be set for the whole 24 hours in DIY mode.

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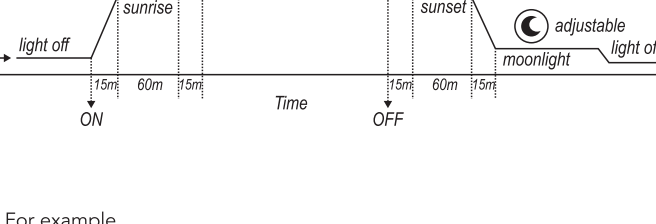
Weather Mode

You can press any of these weather button (Sunrise, Sunset, Cloudy, Lightning) which simulates sunrise, sunset, cloudy and lightning storm mode, you'd have to press **DIY** button manually turn the weather off. Otherwise, it will last until the ON time of DAY-L or MOON-L or L1.

For example: when the lights are running in DAY-L/MOON-L mode, then you press sunrise button at 8 a.m., the lights will slowly ramps up to full bright in 30 minutes. If you don't turn off the weather mode manually, it will stay on, until the 18:00 the light turns into blue light. At this time, the light runs on default day light moon light mode.

- Cloudy: Enabled by a **Cloudy** button on the remote. It is a non-adjustable color setting that is mostly blue and not very bright. Color Spectrum: W1%+R1%+B4%+G2%
- Lightning Storm: Enabled by a **Lightning** button on the remote. The lightning flashes is set to last for 2 seconds before returning back to dark clouds, then reciprocating cycle. Color Spectrum: W1%+R1%+B3%+G3%
- Sunset: Enabled by a **Sunset** button on the remote. The lights start 100% full spectrum slowly ramps down to orange lights until the light off. Duration 30 minutes. Sunset Color Spectrum: B 25%, W 25%, R 25%, G 25%----- Color Spectrum: B 0%, W 0%, R 0%, G 0%
- Sunrise: Enabled by a **Sunrise** button on the remote. The lights start gradient orange lights slowly ramps up to 100% full spectrum. Sunrise Color Spectrum: R25%+G3% -----Color Spectrum B 25%, W 25%, R 25%, G 25%

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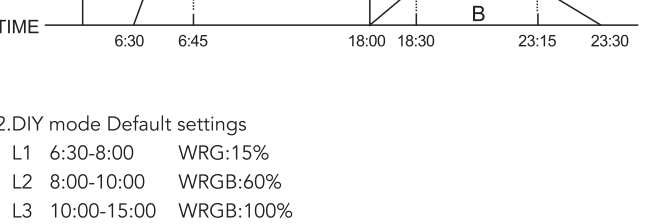
- For example,
- In DIY mode, if the L1 ON time is 6:00, you start cloudy weather before 6:00, the light will keep cloudy until 6:00, then start DIY mode at 6:00, but if you start cloudy weather after 6:00, the light will keep cloudy until next day 6:00 and start DIY mode.
 - In DAY-L/MOON-L mode, if the DAY-L ON time is 6:00, MOON-L ON time is 18:00, you start cloudy weather before 6:00, the light will keep cloudy until 6:00, then start DAY-L mode at 6:00, but if you start cloudy weather between 6:00-18:00, the light will keep cloudy until 18:00 and start MOON-L mode, if you cloudy weather after 18:00, the light will keep cloudy until next day 6:00 and start DAY-L mode.

Default setting day-light moon-light mode:

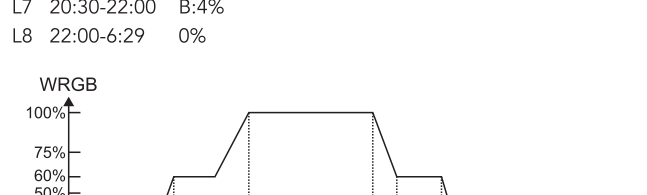
- Day Light: 6:30 ~18:30, R+W+G+B 100%
- Moon Light: 18:00~23:00, B 25%

The light slowly ramps up and down at the first and last 15 minutes.

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- DIY mode Default settings:
 - L1 6:30-8:00 WRGB:15%
 - L2 8:00-10:00 WRGB:60%
 - L3 10:00-15:00 WRGB:100%
 - L4 15:00-17:00 WRGB:60%
 - L5 17:00-18:30 W:2%,R:10%,G:3%,B:0%,orange
 - L6 18:30-20:30 B:25%
 - L7 20:30-22:00 B:4%
 - L8 22:00-6:29 0%



1.Memory Function

If power failure, the light turns on at 100% full spectrum once the restore. Then the light will revert back to the previous mode after one hour.

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3. PRODUCT PARAMETERS

MODEL	HG-016	HG-016	HG-016	HG-016	HG-016	HG-016
INPUT VOTAGE	AC100-24V	AC100-24V	AC100-24V	AC100-24V	AC100-24V	AC100-24V
OUTPUT VOTAGE	DC20V	DC20V	DC20V	DC20V	DC20V	DC20V
POWER	18W	24W	30W	36W	42W	58W
White LED QUANTITY	32	54	64	72	84	130
RGB LED QUANTITY	24	36	48	60	72	96
PURPLE LED QUANTITY	4	6	8	10	12	14
LIGHT SIZE	12" x 12"	18" x 24"	24" x 30"	30" x 36"	36" x 42"	48" x 54"
APPLICATION	12"-18"	18"-24"	24"-30"	30"-36"	36"-42"	48"-54"
POWER CORD	4.9ft+2.3ft	4.9ft+2.3ft	4.9ft+2.3ft	4.9ft+2.3ft	4.9ft+2.3ft	4.9ft+2.3ft
Color temperature	6000-10000K	6000-10000K	6000-10000K	6000-10000K	6000-10000K	6000-10000K
color render index	89	89	89	89	89	89
LUMENS	1000	1600	2100	2700	3100	3600

4. IMPORTANT SAFETY INSTRUCTIONS

Warning: To guard against injury, basic safety precautions should be observed, including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

- You should read all the important notices on the appliance before using. Failure to do so may result in loss of fish life or damage to this appliance.
- 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 by yourself. Return the appliance to an authorized service facility for service or discard the appliance.

A: Carefully examine the appliance after installation. Do not operate any appliance if it has a damaged cord or plug, or if it is malfunctioning or

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- It is dropped or damaged in any manner. The power cord of this appliance cannot be replaced. If the cord is damaged, the appliance should be discarded. Never cut the cord.
- To avoid the possibility of the appliance plug or receptacle to one side of a wall mounted receptacle to prevent water from dripping onto the receptacle or plug. A "drip loop" (see illustration) should be arranged by the user for the cord connecting appliance to a receptacle. The drip loop is that part of the cord below the level of the receptacle or the connector if an extension cord is used to prevent water travelling along the cord and coming in contact with the receptacle. If the plug or receptacle does get wet, do not unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then unplug and examine for presence of water in receptacle.

- This appliance is not intended for use by physical (including children) with significantly impaired physical or mental capabilities, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. Children should always be supervised to ensure that they do not play with the appliance.

- To avoid injury, do not touch moving parts or hot parts.

- CAUTION-Always unplug or disconnect all appliances in the aquarium from electricity supply before placing hands in water, before putting on or taking off parts and while the equipment is being installed, maintained or handled. Never yank cord to pull plug from outlet. Grasp the plug and pull it in use. Always unplug an appliance from an out let when not in use.

- Do not install or store the appliance where it will be exposed to weather or temperatures below freezing. For indoor household use only. Do not immerse.

- Make sure the appliance is mounted correctly and securely positioned on the aquarium before operating the appliance.

- If an extension cord is necessary, a cord with proper rating should be used. A cord rated for less 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. The connection should be carried out by a qualified electrical installer.

- The socket-outlet shall be installed near the equipment and shall be easily accessible.

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5. Maintenance:

For maximum LED performance, it is recommended that the fixture be cleaned on a weekly basis. Unplug transformer prior to cleaning the light fixture and remove from aquarium. Wipe exposed surfaces carefully with a damp cloth to remove any dust or mineral deposits that may collect over time. Do not use detergents or harsh cleaners as it can damage the light fixture.

6. Troubleshooting:

- Light stopped working, please check the remote control batteries. Replace it if it is run out of battery. If still not working, please contact us to get a new power supply. Maybe the power supply damaged.
- Light is not response to remote, unplug the light, take out the battery on the remote. Then put it back and plug in light, press on/off button to the step of taking out the battery would restore factory setting. You have to reset the light again.

7. FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the antenna and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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FCC Caution:

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 8 inches (20cm) between the radiator & your body.

8. One Year Limited Warranty:

This product MUST be purchased from an authorized hygger reseller. Visit our website for a list of unauthorized resellers. Hygger warrants this product against defects in materials and workmanship for ONE (1) YEAR from the date of original retail purchase and is none transferable.

Warranty on all Products, including Aquariums, is limited to replacement of the product and does not cover fish loss, personal injury, property loss or direct, incidental or consequential damage arising from the use of this product.

Note :hygger One-year Limited Warranty does not cover damage caused by the following : improper installation , saltwater corrosion , electrical surges , or modifications.

If you discover a defect, please contact hygger who will, at it's option, repair or replace the product at no charge to you, provided you return it during the warranty period. A copy of the bill of sale is required as proof of original purchase date in the event the product needs repairs within the warranty period. hygger does not warrant any products that are not hygger.

This warranty does not apply if the product has been damaged by accident , abuse , misuse or misapplication or if the product has been modified without the written permission of hygger.

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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction