User Manual

Jengu

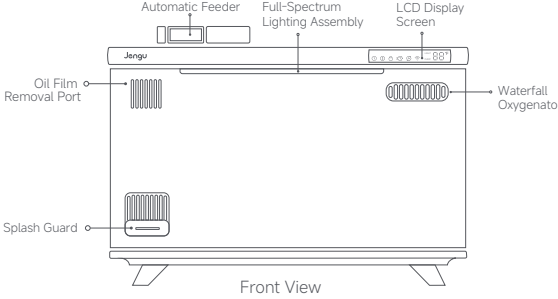
Important Safety Precautions

- Please read this manual carefully before using this product for the first time. Keep the manual handy for future reference.
- Other than this product's water pump and filter, the other main components, including the LED display and controls, are not user serviceable. Only authorized Jengu repair personnel can repair the product when under manufacturer's warranty. Please do not attempt to repair it yourself to avoid damage and potential injury.
- This product should only be connected to power using the supplied original power adapter and must not be powered with aftermarket power adapters or repurposed adapters from other consumer electronics products.
- When assembling, cleaning, or completing regular maintenance, please disconnect the power first and, once completed, reconnect power.
- Place the aquarium power adapter in a secure and concealed location to prevent children from touching it.
- When assembling, cleaning, or completing regular maintenance, do not attempt to connect the power adapter with wet hands to avoid electric shock. Avoid plugging the aquarium's power adapter into power strips along with other electric devices. Connect to the main nearby power outlet directly.

Instructions for Use

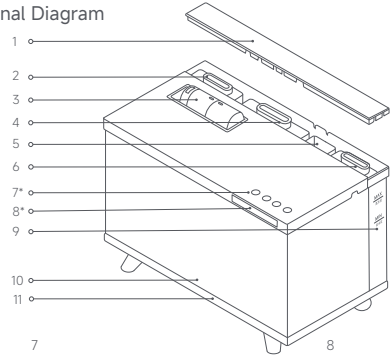
- The tank body is made of glass material. Please do not place this product in areas where it may be damaged by flying objects, accidentally pushed over, or come into contact with corrosive chemical solvents.
- The upper cover of this product contains sensitive components, and direct rinsing with water is prohibited. If cleaning is necessary, wipe it with a clean dry cloth.
- During the fish-keeping process, avoid changing a large amount of water all at once to prevent destabilizing the water quality.
- During the fish-keeping process, if dead fish are found, please promptly remove them to prevent bacterial contamination of water quality.
- When gravel is used in the aquarium, the maximum thickness of the gravel should be lower than the sand-blocking plate to prevent blockage of the water inlet.

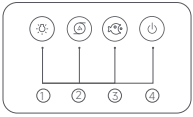
Product Introduction



Note: The illustrations of products, accessories, and user interfaces in this user manual are for illustrative purposes only. Due to product updates and upgrades, the actual product may differ slightly from the illustrations. Please refer to the actual product.

Functional Diagram



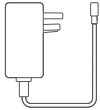


1. Back Filter Compartment Cover	Conceals the module to protect components and to enhance the overall aesthetics of the aquarium.
2. Physical Filtration Module	Filters out large particle impurities.
3. Automatic feeder	Single-click feeding button.
4. Biochemical Filtration Module	Three stage biochemical filtration to cultivate beneficial nitrifying bacteria to counteract the build up of fish waste.
5. Reserved Compartment for Heating Module	Reserved area for placing heating rods.
6. Pump Module	Multi-functional pump with one-key drainage function.
7. Touch Buttons	① Light Button ② Pump Button ③ Feeding Button ④ Power Button
8. Intelligent Display	From left to right, the indicators are: Filter material indicator 1, filter material indicator 2, key lock indicator, feeder indicator, water pump indicator, Wi-Fi indicator, numeric display area.
9. Water Level Mark	MAX for maximum water level. MIN for minimum water level.
10. Glass Tank Body	Made of high-definition transparent gold crystal ultra-clear glass.
11. Suspended Base	Designed with a suspended base for easy transportation of the aquarium by users.

Note: Do not place any products other than the heating rod in the reserved compartment for the heating module. It is recommended to purchase the officially recommended heating rod.

Product Accessories

Drainage Pipe

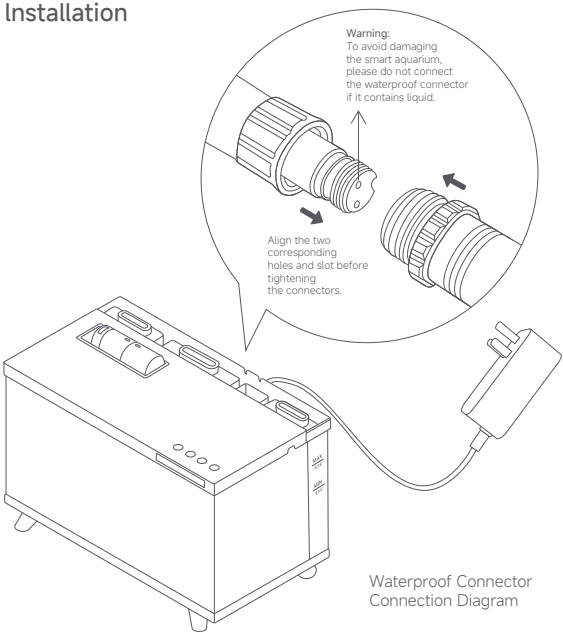


Power Adapter

Fish Care Knowledge Cards

User Manual

Installation



Waterproof Connector Connection Diagram

Please follow the diagram to connect the waterproof connector, then plug in the power adapter to supply power to the aquarium.

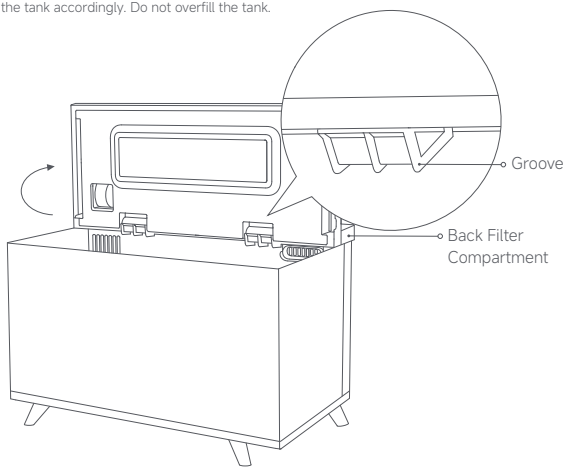
Warning: Do not connect the water pump with liquid inside the waterproof connector, as this may cause damage.

Usage

01. Preparing for Use

Note: The biochemical filtration module and the physical filtration module are pre-installed at the factory. No need to disassemble prior to using.

1. Place the aquarium in an area such as the living room, office, or foyer, on a stable and level base that will keep the aquarium safe from accidents and easy to access for regular feeding and cleaning.
2. Avoid putting the aquarium in a place with direct sunlight, as it can affect the temperature of the water beyond the ability for the thermostat to control.
3. Before using a new aquarium clean the glass portion of the tank thoroughly and disinfect it. Use a clean, lint-free cloth or paper towel dampened with plain water to wipe down all inside surfaces of the empty tank to remove any dust or debris. For a deeper clean, wipe down the inside with a white vinegar solution (1/2 cup vinegar per 1/2 gallon of water) and scrub with a soft non-abrasive pad or sponge. Rinse the tank thoroughly with clean plain water, making sure no vinegar odor or residue remains.
4. When setting up the tank, as shown in the diagram below, flip the aquarium cover upwards by 90°and slot it into the groove of the back filter compartment to flip it over. When flipping the cover, do not forcefully pull the power cord at the connection.
5. Observe carefully the water level indicators on the back filter panel and pour water into the tank accordingly. Do not overfill the tank.



Flip Cover Diagram

02. Power On/Off

Press and hold the power button for 3 seconds to turn the device on/off.

03. Touch Button Instructions

Button Names	Usage
Light Button	1. Single click to turn on the light or switch between light scene modes. 2. Press and hold for 3 seconds to turn the light off.
Pump Button	1. Single click to turn on the pump on or switch between pump speeds. 2. Press and hold for 3 seconds to turn off the pump off.
Feeding Button	1. Single click to feed once. 2. Press and hold for 7 seconds to toggle child lock.
Power Button	Press and hold for 3 seconds to power on/off.
Combination Buttons	1. Press and hold the light button and the feed button for 7 seconds to return to network configuration mode. 2. Press and hold Light Button + Feeding Button + Pump Button for 7 seconds to reset to factory settings. Note: When the aquarium cover is raised at an angle greater than 15-degrees, the Light Button and Feeding Button disabled to prevent accidental touching when flipping the cover.

04. Smart Display Instructions

Long Light: Filter media expired. Off: Filter media not expired.	Long Light: Filter media expired. Off: Filter media not expired.
Long Light: Child lock activated. Off: Child lock deactivated. Blinking: Key operations are ineffective due to child lock.	Off: Idle / Feeding. Blinking: Feeding failure - blinks for 30 seconds.
Long Light: Pump activated. Off: Pump not connected / Off. Blinking: Abnormal operation (low water level / blockage / malfunction). After resolving the abnormality, the pump needs to be restarted.	On: Device online Off: Wi-Fi is off, network configuration needs to be restored. Blinking: waiting for network configuration, connecting to the network, or disconnected

05. Numeric Display Instructions

LIGHT PUMP 88	Long Light on Pump + Number: Displays the pump speed. Long Light on Light + Number: Displays the light scene number. Cover Flip Turn Off: When the cover is raised at an angle greater than 15-degrees, the light automatically turns off to prevent eye damage vision.
88 °F	Long Light: Displays the current water temperature. Off: Pump plug not connected. Fault: Displays error codes E1, E2, E3, E4.
E1 - Low water level in the pump	Solution: 1.Check the water level in the fish tank and add water to the minimum level line. 2.Check and clean or change the physical filter.
E2-Pump blockage	Solution: Remove the water pump protective cover, take out the turbine, and then rinse it clean with water.
E3-Pump malfunction	Solution: 1.The water pump is malfunctioning. Please power off and restart it. 2.If the function still cannot be restored after restarting, please contact after-sales service.
E4-Temperature probe malfunction	1.The temperature probe may be dirty. Please take the water pump out and clean the probe promptly. 2.If it still does not work, please contact after-sales service.

06. Network connection

This product has been connected to Jengu and can be controlled through the Jengu App and interconnected with other smart devices.

1. Download and install the Jengu App. Using the Jengu App, scan the network configuration QR code. Device users can scan the QR code to view your customized network configuration guide. Users who have already installed the Jengu App will be directed straight to the device connection page.
2. You can also download and install the "Jengu" App from major app stores. Once installed, open the Jengu homepage, click on the"+" icon in the top right corner, and follow the app's prompts to add your device.

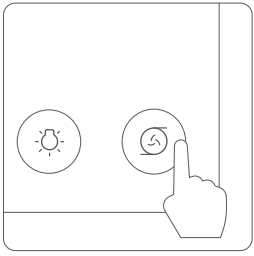
App download link: https://www.jengusmart.com/jengu/app

Note: Due to updates and upgrades of the Jengu App, actual operations may slightly differ from the description above.Please follow the most current in-app instructions for guidance.

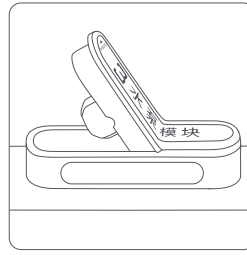
07. One-Key Drainage

The drainage pipe is not included as an pre-assembly accessory and is only used when water needs to be changed. Please store it properly between uses.

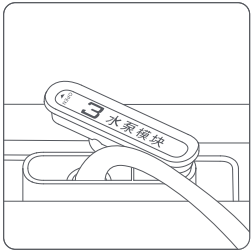
Note: Before draining, turn off the pump to prevent water from spilling when opening the silicone plug for the pump module.



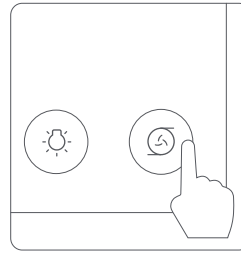
1.Before draining, press and hold the pump button for 3 seconds to turn off the pump



2.Open the back filter compartment cover and pull up the silicone plug of the pump module.



3. After rotating the silicone plug, insert the drainage pipe.



4.After maintenance, remove drainage pipe, replace pump module, and turn pump back on.

Maintenance and Care

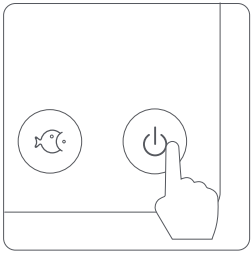
01. Cleaning the Aquarium

- If there are stains on the surface of the tank, use a soft cloth dipped in a small amount of clean water to wipe them off.
- If stains or algae appear on the tank wall during use, please use a professional algae scraper (purchased separately) or biological algaeremover (both sold separately) for cleaning.

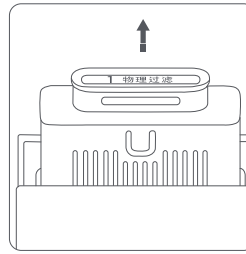
Note: Do not use gasoline, kerosene, ammonia, bleach, or other corrosive, volatile chemical solvents for cleaning, as they will seriously damage the appearance and internal structure of the tank. Do not directly rinse the cover (containing electronic components) with tap water. Ensure that the aquarium is powered off and the power adapter is unplugged during cleaning to avoid electric shock or serious malfunctions caused by water entering the electronic components.

02. Maintenance of Filter Media

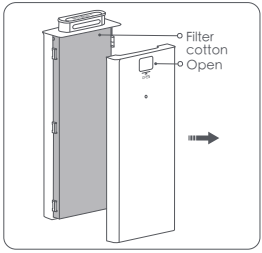
- It is recommended to clean the physical filter module once a month or replace it every three months.



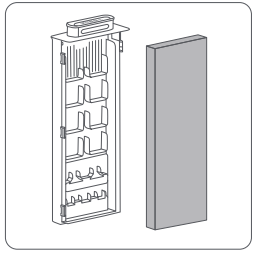
1. Press and hold the power button for 3 seconds to turn off the device or use the Jengu app.



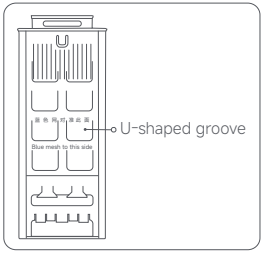
2. Open the back filter compartment cover and remove the physical filter module.



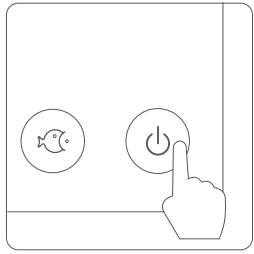
3. Disassemble the outer casing according to the diagram.



4. Clean the outer casing and clean or replace the filter media.



5. With the blue mesh side of the filter cotton facing the U-shaped groove, install the outer casing and place it into the back filter compartment.



6. Close the back filter compartment cover, press and hold the power button for 3 seconds, and then turn the device on for normal use.

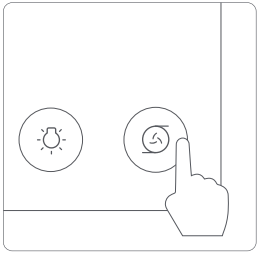
- It is recommended to replace the biochemical filter module (one each in gray, blue, and red) every six months.

Tip: When using filter media, do not use sterilizers, as filter media treated with sterilizers cannot be cultured again. The frequency of filter media replacement is closely related to the size of the fish, population density, and feeding amount.

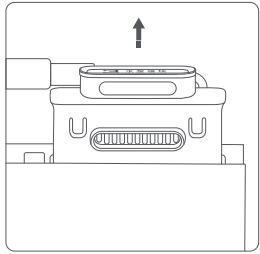
03. Cleaning the Pump

The pump and the filter cotton at the pump need to be regularly disassembled and cleaned. Prolonged use of the pump can lead to the accumulation of impurities in the impeller and rotor, such as fish feces, decaying water plants, and residual feed, which may cause a decrease in the pump's water flow, an increase in working temperature, increased noise, or even pump stoppage. Regularly cleaning the filter cotton at the pump can extend the pump's lifespan.

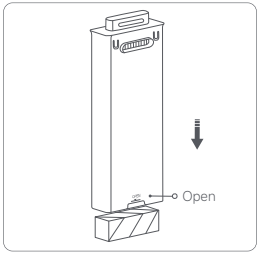
Tips: Clean the filter cotton at the water pump every two months according to steps 1-3. When the water pump malfunctions, please clean the water pump in time according to steps 1-7.



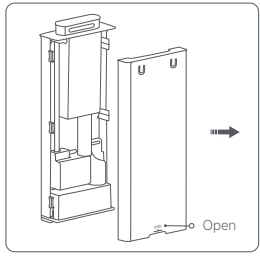
1. Press and hold the water pump button for 3 seconds to turn off the water pump, or turn it off through the Jengu app.



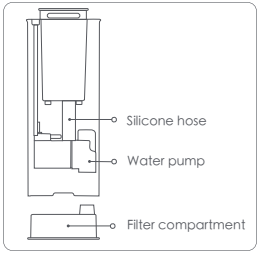
2. Open the back filter compartment cover, disconnect the waterproof connector, and remove the water pump module.



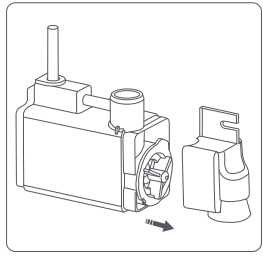
3. Remove the water pump filter cotton and clean it.



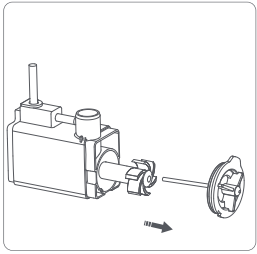
4. Disassemble the water pump compartment as shown.



5. Separate the filter compartment, water pump, and silicone hose for cleaning.



6. Remove the water pump protective cover and rinse with clean water.



7. Remove the turbine and rinse it with clean water.

Fish Care Tips

01. What kinds of fish are suitable for the Jengu Aquarium?

For beginners, it's recommended to raise fish such as zebrafish, danios, guppies, molly fish, platies, pearl fish, and swordtails, which are hardier species more tolerant of environmental conditions.

02. How many fish are suitable for the tank?

The maximum capacity of the Jengu Aquarium is 20 liters. It's suggested to keep 10-15 adult fish with a size of 5-6 cm, 6-9 adult fish with a size of 6-8 cm,or 3-5 adult fish with a size of 8-12 cm.

Your pet store's fish specialist can help with any questions on maintaining a proper mix of fish and environmental elements.

03. Proper Tank Setup

1. Dechlorination (Three effective methods to remove chlorine from water)

- Sun drying method: Place tap water in a container and expose it to sunlight for 24-48 hours before use.
- Oxygenation method: Use an air pump to oxygenate the water. It takes 8-12 hours to complete.
- Chlorine removal agent: Add an appropriate amount of dechlorination agent to the water. After 3 hours,the water can be used.

  Note: Purified water can be used directly.

2. Cleaning the Aquarium

It is recommended to wipe the inner walls of the tank with a light mixture of white vinegar and water and then rinse completely with clean water.

3. Filling the Tank with Water

It is recommended to use a small-capacity independent container and pour water slowly multiple times.

4. Introducing the Fish

When introducing new fish to the tank, they need to be acclimated to the water temperature and conditions to prevent stress and potential death.

- Temperature acclimation: Place the fish bag in the tank and let it sit for 30 minutes.
- Water acclimation: After temperature acclimation, transfer some water from the tank to the fish bag.

04. Handy Tips

1.In the following special situations, it's recommended to change the water promptly:

- Dead fish should always be promptly removed, as their bodies decompose, causing the water to become fouled.
- Multiple fish deaths that occur within a 5 day period.
- A large amount of algae grows on the tank walls within 3-5 days.
- There is a large amount of foam or parasites floating in the tank.

Tips: Adjust the frequency of water changes based on actual conditions. If the temperature is too high, more frequent water changes are advised. When changing water, complete it over 3 days, replacing one-third of the water each day.

2.Feeding Frequency: It is recommended to feed 2~3 times per week, with each feeding session lasting about 3 minutes. Feeding sparingly but frequently is advised; avoid overfeeding.

For example: for 15 zebrafish measuring 3-5cm, feed powdered food every other day (rotate the feeder once).
Important for beginners: Pay attention to the frequency and quantity of feeding.Overfeeding can lead to fish bloating and uneaten food polluting the water.

Note: Do not use fish food, live food, or wet food with a diameter larger than 2mm to prevent clogging of the feeding port.

3.The feeder has two settings, which can be adjusted based on the amount of food consumed by the fish in the tank.
4.Avoid keeping the light on for extended periods or placing the tank in direct sunlight to prevent algae blooms and potential fish deaths due to the impact on the filtration system.

Precautions

01. Usage Restrictions

- Do not place the fish tank near devices prone to electromagnetic interference.Keep away from other sources of fire or heat. Maintain a distance of at least three feet from nearest heat register.
- This product is not suitable for use by children or individuals with sensory or mental disabilities unless they are supervised or instructed by a person responsible for their safety.
- Children should be supervised to ensure they do not treat this product as a toy.
- Children should not clean or maintain this product unsupervised.
- Do not hang the power cord on sharp objects.
- Do not use power accessories other than those provided with this product to avoid injury.
- The light source of the fish tank fixture is not replaceable. When the light source reaches the end of its life, the fixture should be replaced.
- The light source inside the fish tank fixture should be replaced by the manufacturer, its service agent, or a similarly qualified person.

02. During Cleaning and Maintenance

Warning: Before cleaning and maintaining, unplug or disconnect the power adapter of all equipment in the fish tank.

- Do not immerse the fish tank cover in water.
- When cleaning or replacing filter media, move the tank carefully and steadily to prevent tilting and water overflow.
- Do not use hard cleaning tools such as wire balls to clean the fish tank and tank backboard.
- When the fish tank is not in use for a long time, unplug the power adapter, clean the interior of the tank, and protect against moisture, dust, and insects.
- The table where the fish tank is placed must be cleaned regularly and inspected for wear and tear.
- When cleaning the water pump, disconnect the waterproof plug of the water pump first before removing it.Be careful with the blades in the water pump turbine to avoid scratching.

03. When Using Power

- Be sure to unplug the power adapter to disconnect the power to prevent electric shock or short-circuiting and fire.
- If the power cord is damaged, it must be replaced by a professional from the manufacturer, its repair department, or a professional department to avoid danger.
- When moving the fish tank, ensure that the power is off and unplug the power adapter.
- Do not use other extension power cords, or power strips, and do not use components not designated by the company.
- Do not use inferior socket adapters to avoid fires.

04. Before Using the Fish Tank

- Be sure to unplug the power adapter to disconnect the power to prevent electric shock or short-circuiting and fire.
- If the power cord is damaged, it must be replaced by a professional from the manufacturer, its repair department, or a professional department to avoid danger.
- When moving the fish tank, ensure that the power is off and unplug the power adapter.
- Do not use other extension power cords, or power strips, and do not use components not designated by the company.
- Do not use inferior socket adapters to avoid fires.

05. When Using the Fish Tanks

- To achieve the best viewing effect, the tabletop where the fish tank is placed must be flat, and level, as verified with a bubble level tool.
- Do not place any items on top of cover.
- Do not place anything in the tank except fish and decorations designed specifically for an aquarium environment.
- Do not place any products with painted surfaces, such as dolls or action figures, in the tank. Prolonged immersion can cause death to live fish and damage to the surface of the dolls or action figures.
- All electronic devices in the fish tank need to be certified waterproof.
- Avoid powering the fish tank when it is empty to prevent the water pump from running dry. The water pump must be fully submerged in water during normal operation.
- Strictly follow the standard range to fill the tank with water. Excessive water level may cause overflow, while low water level may prevent normal water circulation and filtration.
- When using the fish tank, if the cover is not on the tank, first correctly place the tank cover into the groove on the back filter compartment to secure it, then lower the tank cover. During this process, avoid the tank cover falling into the water, and ensure that the tank cover fits firmly after being placed.
- Do not add any other filter materials to the back filter compartment of the fish tank to avoid affecting the filtration effect of the tank and the lifespan of the water pump.

Troubleshooting

Faults	Method of exclusion
Pump not working	1.Check the water pump is turned on, if not then click the water pump button to turn it on. 2.Check if the fish tank is in a feeding protection mode. 3.Check the water inlet for any debris or blockages. 4.Check if the connection between the water pump and the silicone tube has come loose.
Unstable water flow, accompanied by bubbles and noise	1.Check the fish tank water level to make sure it is above minimum level line. 2.Check and clean or change the physical filter and water pump filter cotton.
Wi-Fi connection failed	1.Check if the network communication is normal, and make sure the fish tank is close to a Wi-Fi signal source. 2.Make sure the Wi-Fi source is 2.4GHz. 3.Reset Wi-Fi, press and hold the light button and the feed button for 7 seconds to restore network configuration mode and reconnect the device.

Basic Parameters

Product Name	Smart Aquarium
Product Model	M1
Product Material	Tank Body Ultra-Clear Glass、
	ABS Shell Material
Product Dimensions	446x 246 x 318mm
Product Color	Dark Grey/Snow White
Product Net Weight	7.3kg
Product Gross Weight	8.8kg
Execution Standard	GB/T 4706.1-2024
Adapter Output	12V⎓ 2A
Rated Input	12V⎓ 2A
Rated Power	24W
Adapter Input	100-240Vac, 50/60Hz, 0.7A Max
Antenna	Model: MHCWB6G-B,onboard antenna type, with a maximum antenna gain of 2.6dBi, no line loss involved in the soldering test seat. Model: MHCWB6G-IB,external antenna type,using an IPEX seat for external antenna connection, no maximum gain or line loss involved.
Manufacturer Address	Desgeo (Shenzhen) Technology Co., Ltd. F10, Building E, Yujing Center, Qingquan Road No. 7, Longhua, Shenzhen, Guangdong, China
FCC ID	2ANDL-WBR1-IPEX

FCC Compliance Statements

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.
Note: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 or more of the following measures:
-- 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.
Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user' s authority to operate the equipment.
FCC 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 a minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Warranty Period:

After-Sales Service:

- During your use of the aquarium, if you have any questions regarding operation, maintenance, safety, etc., you can consult and request repairs through various after-sales service channels provided by Jengu.
- Official customer service email: https://www.jengusmart.com/ .
- This manual's images are for reference only. Please refer to the actual product for accuracy.
- Due to technological upgrades and firmware updates, the actual product's features may not completely match the contents of the manual.
  For the latest information on features and safety instructions, please contact the online customer service of the purchasing platform or official service mail.

Warranty Coverage

Type	Warranty Coverage	Warranty Period
Main unit	Control panel	1 year
Attachment	Power adapter, feeder, water pump	1 year

The following situations are not covered by the three guarantees:

- Unauthorized repairs, misuse, collisions, negligence, abuse, immersion in liquid, accidents,modifications, improper use.
- Non-original accessories, or tearing, altering labels, or anti-counterfeiting marks.
- Exceeded the validity period of the three guarantees.
- Damage caused by force majeure such as fire, flood, lightning, etc.
- Cases that do not meet the performance failure conditions listed in the "Jengu Aquarium Product Performance Failure List."
- Performance failures listed in the "Jengu Aquarium Product Performance Failure List" caused by human factors.

Jengu Smart Aquarium Product Performance Failure Table:

Product Name	Performance Malfunctions
Jengu Aquarium	1. Power failure, unable to power on. 2. Pump malfunction, not functioning. 3. Light malfunction, missing light color, unable to switch light colors, lights not turning on. 4. Switch malfunction, unable to control panel functions. 5. Feeder malfunction, unable to rotate for feeding.

Note: As packaging boxes are required to ensure the safety of the product during transportation, it is recommended that you keep the packaging boxes for at least 30 days from the date of receipt.

Website: https://www.jengusmart.com/ .
Manufacturer: Desgeo (Shenzhen) Technology Co., Ltd.
Address: F10, Building E, Yujing Center, Qingquan Road No. 7, Longhua, Shenzhen, Guangdong, China