

Wonderfactory Aquarium User Manual



Whatsapp Support Hub

Official customer service email: support@wonderfactory.vip

Facebook: @WonderFactoryGlobal ; Facebook Group: @WonderFactoryUS

During your use of the fish tank, if you encounter operational issues, you can consult through various after-sales service channels provided by Wonderfactory.

Safety Instructions

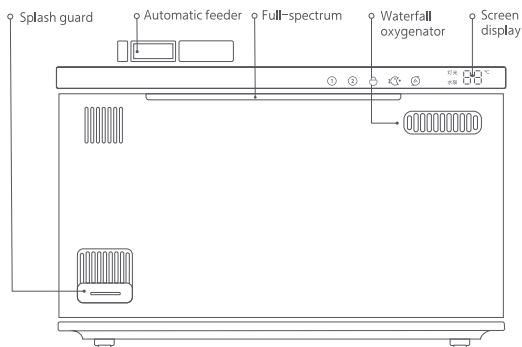
Safety Precautions

- Before using the product, please carefully read this manual and keep it properly.
- This product is not removable (except for cleaning the water pump and the filter cotton at the water pump). Only authorized repair personnel from the company can repair the product. Please do not attempt to repair it yourself to avoid accidents.
- Note that this product can only be connected to the matching power adapter and must not be mixed with adapters from other electronic products.
- When installing or cleaning and maintaining, please disconnect the power first. After cleaning, install and fix each accessory before powering on.
- Place the aquarium power adapter in a secure and concealed location to prevent children from touching it.
- When installing, using, or maintaining the aquarium, do not operate with wet hands to avoid electric shock.

Instructions for Use

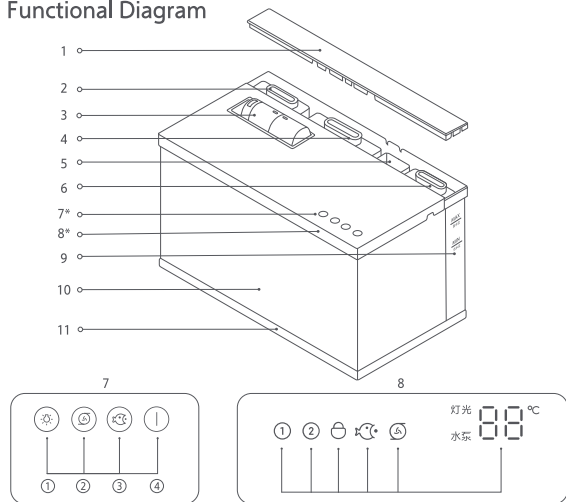
- The tank body is made of glass material. Please do not place this product in areas where it may come into contact with corrosive chemical solvents.
- The upper cover of this product contains electronic components, and direct rinsing with water is prohibited. If cleaning is necessary, wipe it with a clean towel.
- During the fish-raising process, avoid changing a large amount of water to prevent destabilizing water quality.
- During the fish-raising process, if dead fish are found, please promptly remove them to prevent bacterial contamination of water quality.
- If gravel is to be placed in the aquarium, the thickness of the gravel should be lower than the sand blocking plate to prevent blockage of the water inlet.

Product Introduction



Frontal view

Functional Diagram



1.Back Filter Compartment Cover	Conceals the module to ensure the overall aesthetics of the aquarium.
2.Physical Filtration Module	Filters out large particle impurities.
3.Automatic feeder	Dual-mode adjustment, single-click feeding button to feed
4.Biochemical Filtration Module	Three sets of biochemical filtration to cultivate nitrifying bacteria.
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.Smart Display	From left to right, it includes Filter Media Indicator 1, Filter Media Indicator 2, Keypad Lock Indicator, Feeder Indicator, Pump Indicator, and 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-white 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



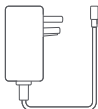
Physical Filtration Module



Biochemical Filtration Module



Drainage Pipe



Power Adapter

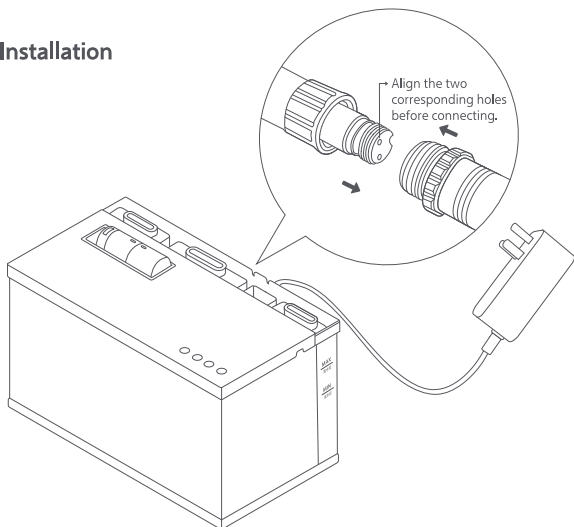


Fish Care Knowledge Cards



User Manual

Installation



Waterproof Connector Connection Diagram

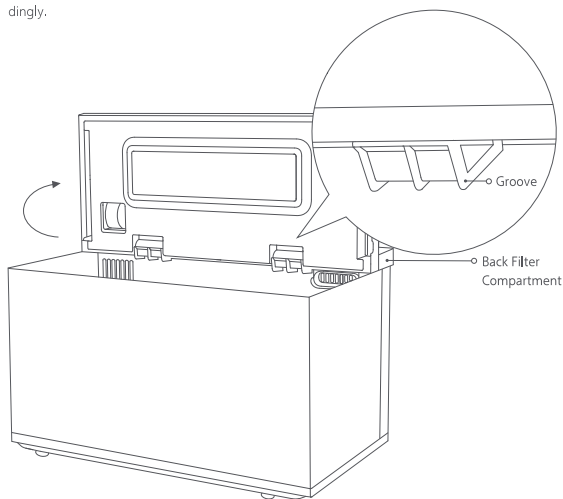
Please follow the diagram to connect the waterproof connector, then plug in the power adapter to supply power to the aquarium.

Usage

01. Preparing for Use

Note: The biochemical filtration module and the physical filtration module are already installed. No need to disassemble for initial use.

- 1.Place the aquarium in an area such as the living room, office, or foyer, avoiding direct sunlight.
- 2.Before using a new aquarium, clean it thoroughly and disinfect it.
- 3.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.
- 4.Strictly follow the water level indicators on the back filter panel and pour water into the tank accordingly.



Flip Cover Diagram

02. Power On

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 (01. South American Style, 02. Stream Style,03. White Light, 04. Night Light Mode, 05. Daylight,06. Flowing Light, 07. Plant Light). 2.Press and hold for 3 seconds to turn off the light.
 Pump Button	1.Single click to turn on the pump or switch between pump speeds(01 speed, 02 speed, 03 speed). 2.Press and hold for 3 seconds to turn off the pump.
 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	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 are 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: Not connected / Off. Blinking: Abnormal operation(low water level / blockage / malfunction). After resolving the abnormality, the pump needs to be restarted.	

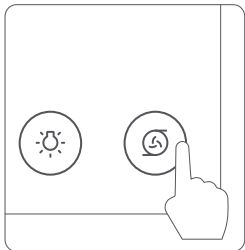
05.Numeric Display Instructions

灯光 88 水泵	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.
88 °C	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: Please add water to the aquarium above the Min line.
E2- Pump blockage	Solution: 1.Open the back filter compartment cover, disconnect the waterproof connector, remove the pump module, and open the pump compartment. 2.Disassemble the right side cover of the pump, clean the impurities from the impeller with clean water and cotton balls. 3.Assemble the pump for testing. If it works, it can be used normally. If it doesn't work, please contact customer service.
E3-Pump malfunction	Solution: 1.Confirm if the pump is turned on. If it's not, you can single-click the pump button to turn on the pump. 2.Confirm if the pump waterproof connector is properly connected. 3.Confirm if the pump is blocked. If the problem persists after troubleshooting, please contact customer service.
E4-Temperature probe malfunction	Solution: If it's not working, please contact customer service.

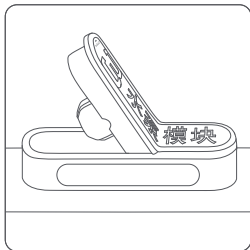
07.One-Key Drainage

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

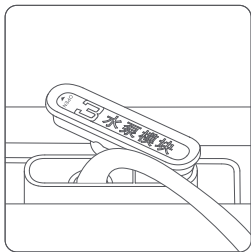
Note: Before draining, turn off the pump to prevent water from spilling when opening the silicone plug of the pump module.



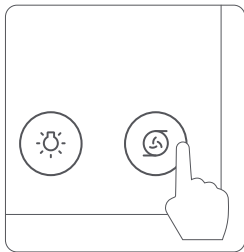
1.Before draining, press and hold the pump button for 3 seconds to turn off the pump



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 rotating the silicone plug, insert the drainage pipe.

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 algae remover (2-3 strands of 5-7cm Java moss or 10-20 black shrimp need to be purchased) for cleaning.

Note: Do not use gasoline, kerosene, 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.

Q2.Maintenance of Filter Media

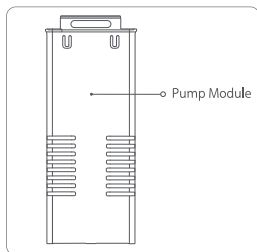
- It is recommended to replace the physical filtration module every 3 months. It is recommended to replace the biochemical filtration module(one red, one white, and one gray) every 6 months.

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, density, and feeding amount. It can also be adjusted according to the specific.

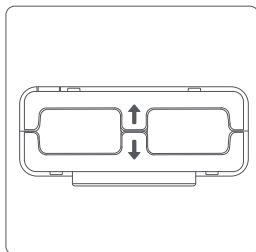
03.Conditions of the aquarium.

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 stoppage. Regularly cleaning the filter cotton at the pump can extend the pump's lifespan.

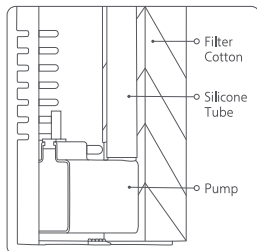
Tip: It is recommended to clean the pump and the filter cotton at the pump every two months. Open the protective cover of the pump, remove the baffle, clean the interior of the pump and the silicone tube with a damp cloth, and rinse the filter cotton at the pump with clean water.



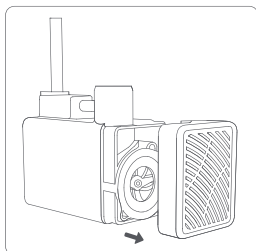
1. Press the pump button to turn off the pump, then remove the pump module.



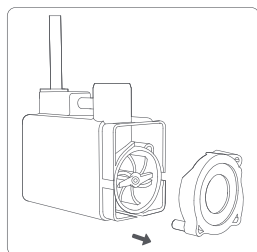
2. After removal, follow the indications at the bottom of the module to open the module casing.



3. After separating the pump and the silicone tube, clean the pump, silicone tube, and filter cotton.



4. After removing the pump, open the pump protective cover.



5. Remove the baffle and use tweezers and cotton balls to clean the impeller, then rinse the inside of the pump with clean water.

Fish Care Tips

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

For beginners, it's recommended to raise fish such as zebrafish, danios, guppies, molly fish, platies, pearl fish, and swordtails, which are easy to keep alive.

02.How many fish are suitable for the tank?

The maximum capacity of the wonderfactory 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.

Note:Due to different species of fish having different requirements for water quality, breeding methods, temperature, behavior, and feeding habits, it's not recommended to mix fish with significantly different body sizes in the same tank.

03.Proper Tank Setup

1.Cleaning the Aquarium

It's recommended to wipe the inner walls of the tank with alcohol cotton and then rinse with clean water.

2.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.

3.Filling the Tank with Water

It's recommended to use a small-capacity independent container and pour water slowly multiple times. Do not pour water directly into the bottom of the tank using a basin or bucket.

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.

Note: Before opening the fish bag, observe the live fish to check for any pathological features. If the fish shows abnormal behavior, it's advisable to contact the fish seller for advice and not to release them into the tank immediately.

04.Handy Tips

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

- Dead fish are not promptly removed, and their bodies decompose, causing the water to become cloudy.
- Continuous fish deaths occur within 5 days.
- 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, set the feeder to the smallest setting, and 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.

5.If stains or algae appear on the tank walls during use, please use a professional algae scraper (purchased separately) or biological algae remover (purchase 2–3 strands of 5–7cm Java moss or 10–20 black shrimp).

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 30cm from heat sources.
- 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 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 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.
- 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, 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

- Do not fill the tank with water when checking the tank.
- After receiving the fish tank, check for any defects in appearance and whether the tank is damaged.

05.When Using the Fish Tank

- To achieve the best viewing effect, the tabletop where the fish tank is placed must be flat, preferably corrected with a spirit level.
- Do not place any items on the cover.
- Do not place anything in the tank except for decorations.
- 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 waterproofed.
- Avoid powering the fish tank when it is dry 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 does not wobble 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 pu

Troubleshooting

Faults	Method of exclusion
Water Pump Malfunction	1.Verify if the water pump is properly turned on by pressing the water pump button to start it. 2.Check if the connection between the water pump and the silicone tube is loose. 3.Disassemble the water pump to inspect if the fan blades and impeller are blocked.
Water Overflowing from the Water Pump Outlet or Drainage Blockage	Check if there is mucus or debris blocking the water outlet, and clean it regularly.

Water Pump Running Dry
or Making Unusual Noise

1. Check if there is water in the fish tank and if the back filter compartment has water.
2. Regularly clean the water pump and the filter cotton in the water pump compartment. It is recommended to replace the physical filter module every three months.

Note: If there is water in the fish tank and it exceeds the minimum water level line, but there is no water in the back filter compartment, please replace the physical filter module promptly. Blockage of the physical filter module can cause the back filter compartment to run out of water.

Basic Parameters

Product Name	Smart Fish Tank
Product Model	S1
Product Material	Tank Body Ultra-white Glass、ABS Shell Material
Product Dimensions	446 x 246 x 295mm
Product Color	Deep Space Grey
Product Net Weight	7.3kg
Product Gross Weight	8.8kg
Execution Standard	Q / YYB 001
Adapter Output	12V = 2A
Rated Input	12V = 2A
Rated Power	23W
Adapter Model	100-240Vac, 50/60Hz, 0.5A 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	Shenzhen Huiyue Technology Co., Ltd.
Address	Room 410, 4th Floor, Building C2, Zhonghao Industrial City, XiangjiaotangCommunity, Bantian Street, Longgang District, Shenzhen City
FCC ID	2BFLI-S1



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 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.

The names and contents of harmful substances in the product.

Component name	Hazardous substances					
	Pb	Hg	Cd	(Cr(VI))	(PBB)	(PBDE)
control board assembly	×	○	○	○	○	○
power adapter	×	○	○	○	○	○
water pump	○	○	○	○	○	○
biochemical filtration module	○	○	○	○	○	○
physical filtration module	○	○	○	○	○	○
feeder	○	○	○	○	○	○
microswitch assembly	○	○	×	○	○	○

This table is prepared in accordance with the provisions of SJ/T 11364.

○ : Indicates that the content of the toxic and hazardous substances in all homogeneous materials of the component is below the limit requirements specified in the GBT 26572 standard.

×

: Indicates that the content of the toxic and hazardous substances in some homogeneous materials of the component exceeds the limit requirements specified in the GBT 26572 standard due to existing technology and processes.

Note: Due to production processes and technologies, some hazardous substances in the listed components may exceed the limit requirements but are exempted under EU hazardous substance control regulations. Please feel assured to use.

Environmental Protection Usage Period:

The marking period (ten years) refers to the period during which the hazardous substances contained in electronic and electrical products will not leak or mutate under normal conditions of use, and the use of the product by the user will not cause serious pollution to the environment or cause serious harm to their person or property.



Warranty Period:

After-Sales Service:

- During your use of the smart fish tank, if you have any questions regarding operation, maintenance, safety, etc., you can consult and request repairs through various after-sales service channels provided by Wonderfactory
- Official customer service email: support@wonderfactory.vip
Connect with us: Facebook: @WonderFactoryGlobal
Facebook Group: @WonderFactoryUS
- 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 "wonderfactory Aquarium Product Performance Failure List."
- Performance failures listed in the "wonderfactory Aquarium Product Performance Failure List" caused by human factors.

Wonderfactory Smart Fish Tank Product Performance Failure Table:

Product Name	Performance Malfunctions
Wonderfactory Smart Fish Tank	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.