



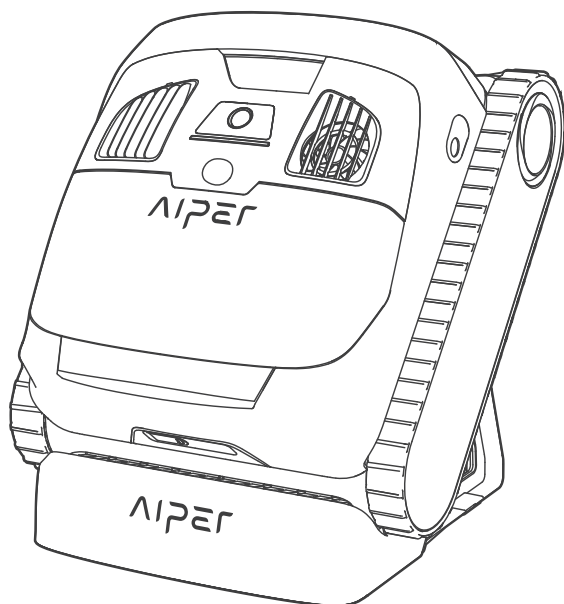
— bring vacation home —

CORDLESS ROBOTIC POOL CLEANER

User Manual

Original Instructions

Aiper Scuba X1



Thank you for choosing Aiper.

You've now joined millions who have already trusted Aiper to care for their pools and are enjoying the convenience of a pristinely clean pool.

This user manual will help you maintain your device and ensure it performs at its maximum efficiency for years to come. Please take a moment to read through it.

If you have any questions, please visit our website at www.aiper.com and contact our customer service team for assistance or more information.

Aiper Customer Service:



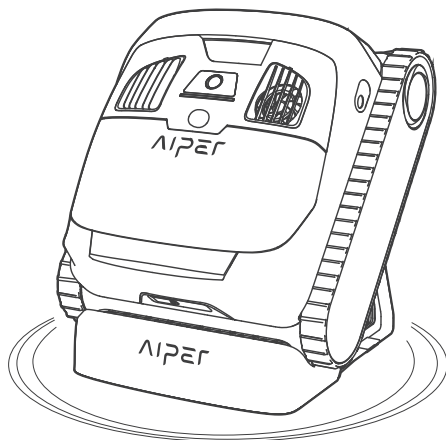
Email: service@aiper.com



Scan for
Video Guide



Scan the QR
Code to Access
Customer Support



1. IMPORTANT SAFETY INSTRUCTIONS

Please read this manual carefully and follow all warnings and instructions when using your Aiper Cordless Robotic Pool Cleaner (hereinafter referred to as *device*). Failure to comply may result in electric shock, fire, or serious injury. Aiper is not liable for any losses or injuries caused by improper use of this device.

For your safety and the optimal performance of this device, please read and follow these instructions:

1. This device is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the device by a person responsible for their safety.
2. Children shall not play with the device. Cleaning and user maintenance shall not be made by children without supervision.
3. Children should be supervised to ensure that they do not play with the device.
4. Ensure that children do not attempt to touch the device while it is operating.
5. Do not allow children to ride the device under any circumstance.
6. Do not operate the device with people or animals in the pool.
7. While operational, do not place your hands into any part of the device as this may result in injury.
8. Do not run your device out of the water as it may lead to over-heating.
9. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
10. WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this device.
11. The lithium battery in this device is a DC 21.6V, 7800 mAh, 18-cell battery, compatible with charger model GM95-252300-2FG. The battery must be removed and discarded according to local laws and regulations before disposing of the device.

12. This device can only be used with C1264C4 model lithium battery packs and CR1225 model button cell battery.
13. The device contains batteries that are only replaceable by skilled persons. To replace the device's battery, please contact Customer Service.
14. This device contains batteries that are non-replaceable. When the battery is at end of life, the device shall be properly disposed of.
15. Be aware of the risk of terminals of the battery-operated device or battery being short-circuited by metal objects.
16. In the event a damaged device produces an unfamiliar liquid, avoid contact with the liquid. If coming into contact with a foreign liquid, especially the eyes or other sensitive parts, immediately flush with water. Liquid ejected from a damaged battery may cause skin irritation or burns.
17. Do not expose the device or battery to fire or excessive temperature. Exposure to fire or temperature above 130°C (265°F) may cause explosion.
18. Remove the device from the charger, and turn OFF the power button to the device before removing the battery for disposal of the device.
19. The battery must be removed and discarded according to local laws and regulations before disposal of the device.
20. Please dispose of used batteries according to local laws and regulations.
21. Do not incinerate the device even if it is severely damaged. The batteries can explode in a fire.
22. Ensure your device is turned off and the charging port is dry before charging with the charger. While charging, your device should be kept in a cool, well-ventilated area. Do not cover your device while charging, as this may cause components to overheat.
23. **WARNING:** To reduce the risk of electric shock, replace damaged cord immediately.
24. If the power cord is damaged, it must be replaced or repaired by a qualified electrician or Aiper Customer Care to avoid any hazards.

25. The power supply is not to be repaired and not to be used any longer if it is damaged or defective.
26. Only certified professionals should disassemble the sealed drive kit of your device.
27. Only use as described in this manual. Only use attachments recommended or sold by the manufacturer.
28. Do not operate your device simultaneously with any other pool equipment, such as a pool filter, cleaner, or skimmer.
29. When putting your device into the water, the front of the device must face upwards and should never be placed upside down or thrown into the swimming pool.
30. Watch your steps and maintain balance when working near the poolside.
31. Do not drop, pierce the shell, or intentionally damage the device in any way, as this may void your warranty.
32. To prevent RF exposure, a separation of 20 cm or more is recommended between the persons operating the device and the device itself. Operation at closer distances is not recommended. The antenna used for this device's transmitter must not be co-located with any other antenna or transmitter.
33. Disconnect the robotic pool cleaner from the supply mains before carrying out user maintenance such as cleaning the filter.
34. The plug must be removed from the receptacle before cleaning or maintaining the charger.
35. When not using the charger for a long period of time, please unplug it.
36. When not in use, store the device indoors, in a cool, well-ventilated area.

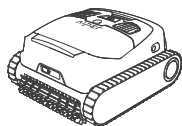
37. CAUTION:

- FOR USE WITH SWIMMING POOLS ONLY.
- DO NOT RUN PUMP DRY.
- FOR USE ONLY WITH AUTHORIZED AIPER CHARGER, MODEL:
GM95-252300-2FG.

SAVE THESE INSTRUCTIONS

2. Product Components

2.1 Package Contents



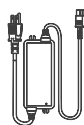
Robotic Pool Cleaner *1



Charging Dock *1



User Manual *1

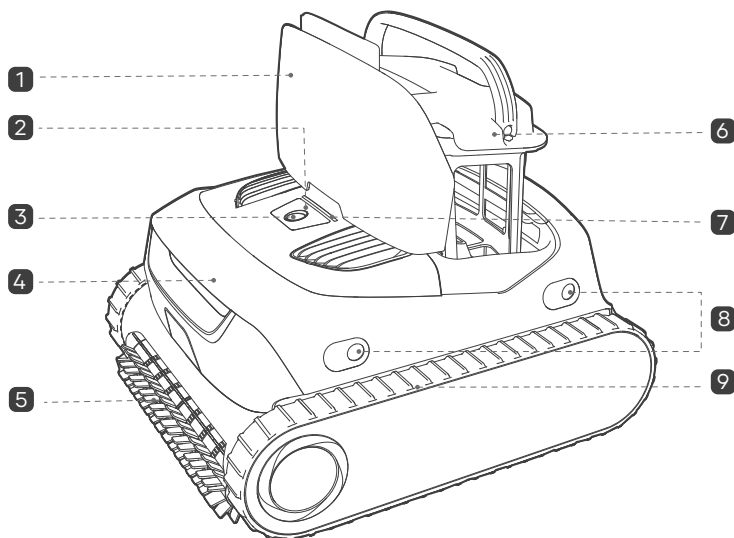


Charger *1



Hook *1

2.2 Component Overview



Robotic Pool Cleaner (Side View)

- | | | |
|----------------------|----------------|----------------------|
| 1 Top Shell | 4 Handle | 7 LED Mode Indicator |
| 2 : Wi-Fi Indicator | 5 Roller Brush | 8 OmniSense™ Sensor |
| 3 : Power Button | 6 Filter Box | 9 Caterpillar Tread |

3. How to Use Your Aiper Scuba X1

3.1 Operating Conditions

Please ensure the device is only used within the specified pool environments. Damage resulting from use outside these conditions will not be covered under warranty.

• Water Temperature: 10–40°C (50–104°F)
• pH Value: 7.0–7.8
• Chlorine: Maximum 4 ppm
• NaCl: Maximum 5000 ppm

3.2 Downloading App


Download the Aiper App to unlock more features for your device:
You can download and install the Aiper App by scanning the QR code below or by searching for *Aiper* in your App store.



Notes:

- iOS 12.0 or later, or Android 8.0 or later is required for full App functionality on your smartphone or device.
- Once installed, follow the App's instructions to complete registration, login, and network setup.

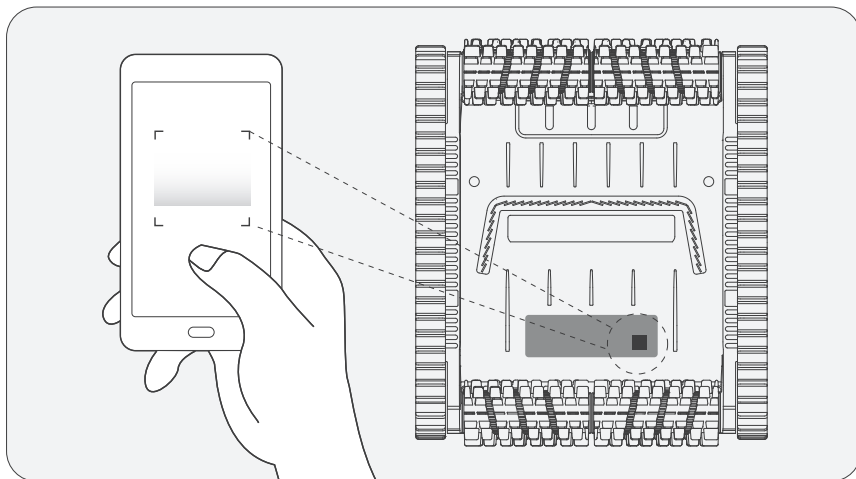
3.3 Network Setup

When first powering on the device, it will enter Network Setup Mode. If this process is interrupted, press  for 5 seconds to re-enter Network Setup Mode.

Once in Network Setup Mode, please select either Bluetooth Setup or QR Code Setup.

- **Bluetooth Setup:** Enable Bluetooth on your phone and grant access to the Aiper App. In the App, tap the [+] symbol in the top right corner, then select *Add via Bluetooth*. The App will detect nearby Bluetooth devices. Select your network, enter the Wi-Fi password, and tap *Next* to finish network setup.

- **QR Code Setup:** Open the App and tap the [+] in the top right corner, then select *Add via QR Code*. Scan the QR Code located on your Aiper device. When the device is recognized, follow the App's instructions to connect to the device's Wi-Fi. Once connected, return to the App and follow the prompts to complete the network setup.



Wi-Fi Network Requirements:
Use a 2.4GHz or 2.4/5GHz mixed network.

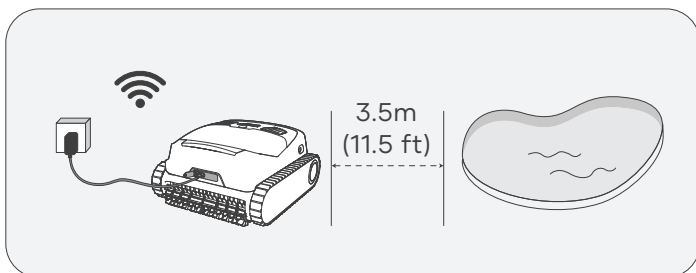
3.4 Charging

CAUTION:

Please fully charge the device before using it to clean the pool.

Do not charge the device in direct sunlight.

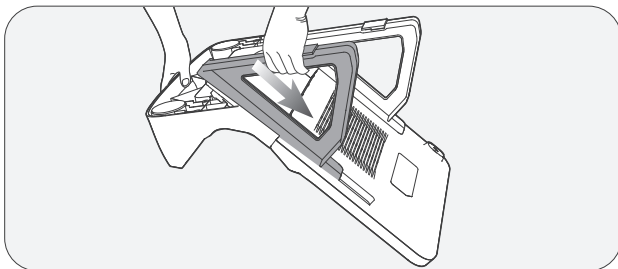
It's advised that a minimum distance of 3.5m (11.5 ft) separates your pool and charging location. For the best results, your charging location should have Wi-Fi coverage, as this will expedite OTA updates.



Charging Options :

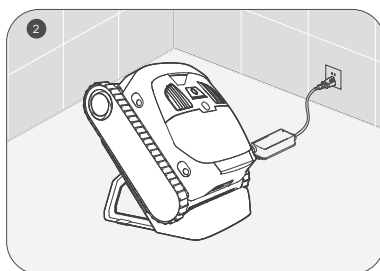
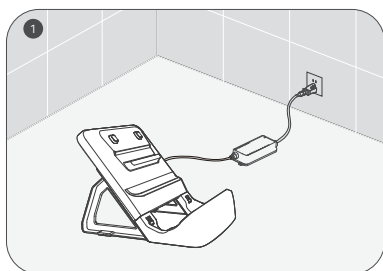
• Charging Dock :

1. Install the Charging Dock: Insert the support leg into the charging panel. Then, attach the front cover.



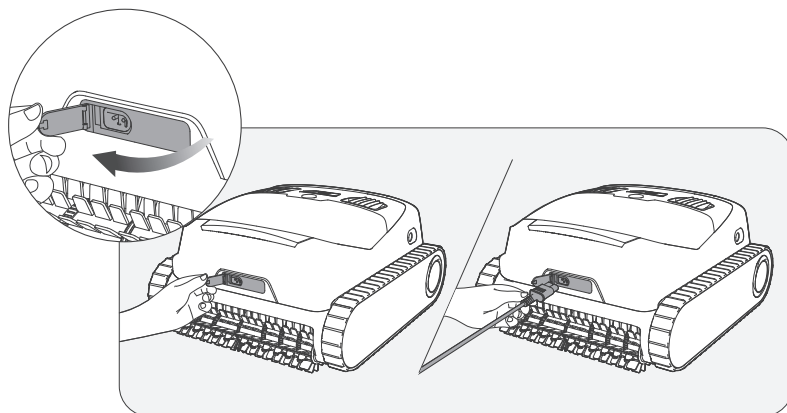
2. Before charging, ensure that both the charging dock and the device are dry. Do not place a wet device on the dock for charging. Use a tissue or dry cloth to thoroughly dry the metal contacts on the bottom of the device for the best charging quality.

3. Connect the charger's cable to the charging port on the dock, and plug the adapter into any available outlet. Place the dry device onto the charging dock. The LED status indicator on the device will pulse while charging and turn solid green when fully charged.



• Charging Port:

1. Before charging, remove the charging port cover and ensure the charging port is dry. If there's any water or dampness in the port, wipe it dry with a clean cloth before charging your device.
2. Connect the charger to the device's charging port, then plug the charger into any available outlet. The LED status indicator will pulse while charging and turn solid green when fully charged.

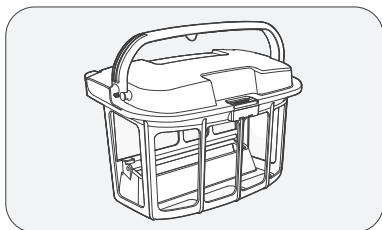


3.5 Choosing Filter

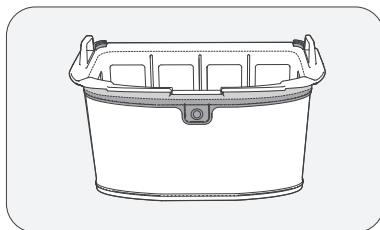
Two filters of different thickness are provided: replaceable MicroMesh™ ultra-fine filter and filter box.

The replaceable MicroMesh™ ultra-fine filter can trap particles as small as 3-10µm, such as silt and some algae. When visible debris is minimal (e.g., stones, leaves, sand, debris, hair) and the water appears cloudy or some algae, it is recommended to use both the filter box and the replaceable MicroMesh™ ultra-fine filter.

If there is a significant amount of visible debris, it is recommended to use only the filter box and not use the replaceable MicroMesh™ ultra-fine filter.




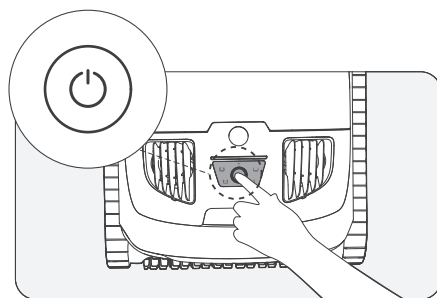
Filter box



Replaceable MicroMesh™
Ultra-fine Filter

3.6 Cleaning Process

1. Press and hold the  Button for 2 seconds to turn on/off the device.

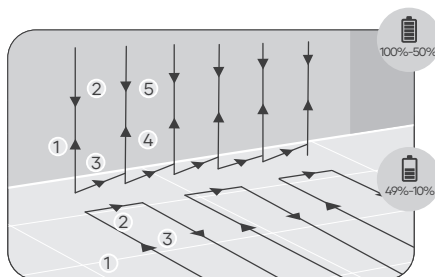
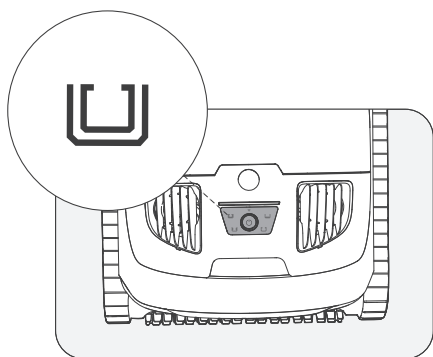


2. Press the  button briefly to cycle through and choose one of the four cleaning modes: Smart Mode, Floor Mode, Wall Mode, and Waterline Mode.

Once you have selected the desired cleaning mode, immediately place the device in the pool. After being submerged for a short period, the device will initiate the selected mode's cleaning task.

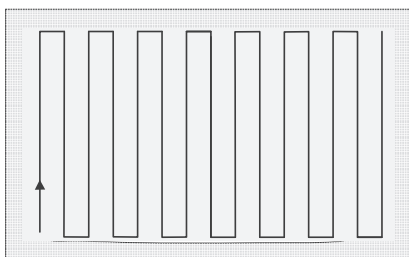
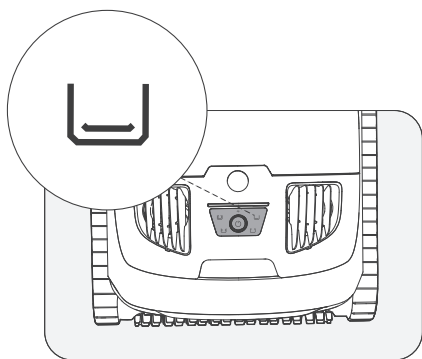
The details of each cleaning mode are described below:

- **Smart Mode:** The device will clean your pool walls and pool floor sequentially, planning its path based on the battery level.



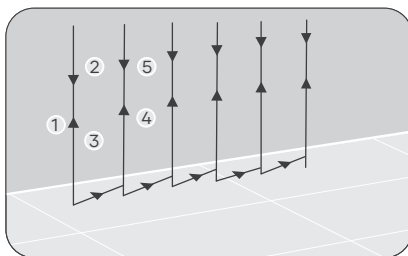
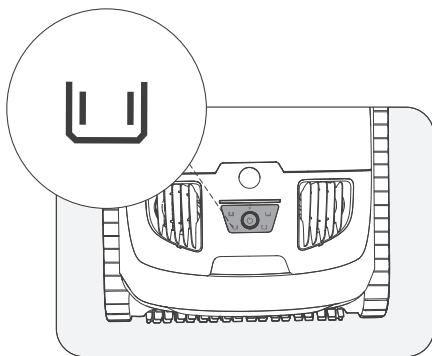
Smart Mode

- **Floor Mode:** The device will clean the pool floor utilizing an S-shaped route, without climbing or cleaning walls.



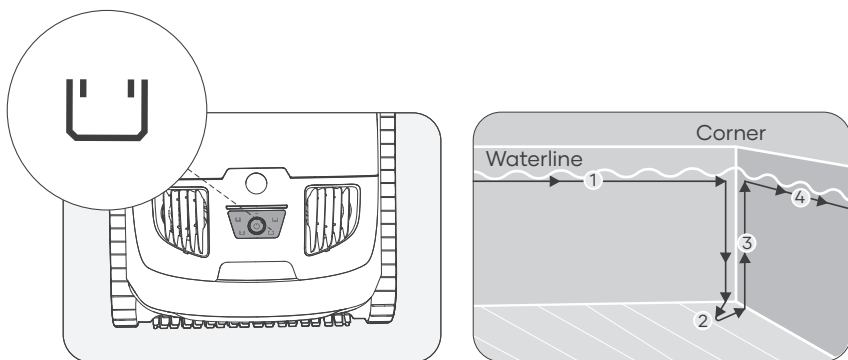
Floor Mode

- **Wall Mode:** The device will clean the pool walls utilizing an N-shaped route. The device will not clean the pool floor in the mode.



Wall Mode

- **Waterline Mode:** The device will move horizontally and clean along the pool waterline. When running into corners or obstacles along the pool walls, it will descend from the waterline, switch walls or bypass obstacles, and resume cleaning.

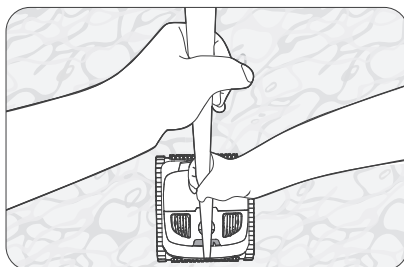
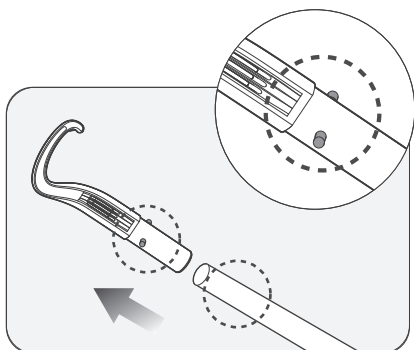


Waterline Mode

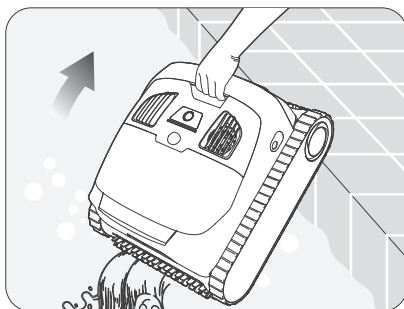
3. When the battery level is low, indicated by a solid red LED status indicator, the device will stop the current cleaning task and automatically park at the edge of the pool.



4. Users can attach the hook to any standard telescopic pool pole (not included) to extend, hook, and pull up the device from the pool floor.



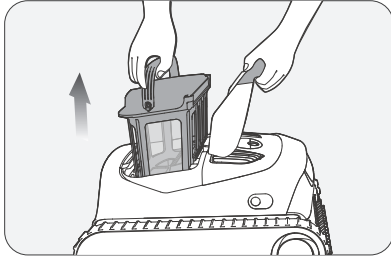
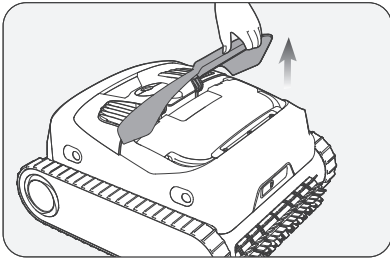
5. Allow the device to drain any stored water before storing or charging the device.



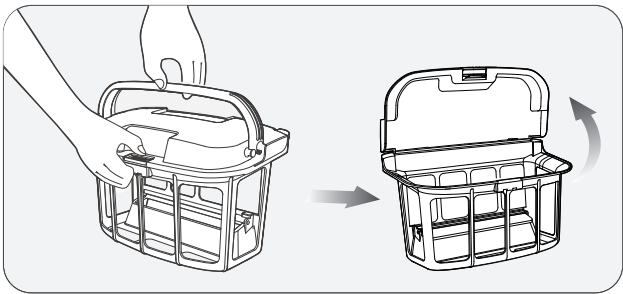
4. Maintenance

4.1 Cleaning the Filter Box

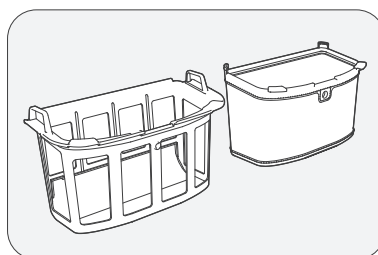
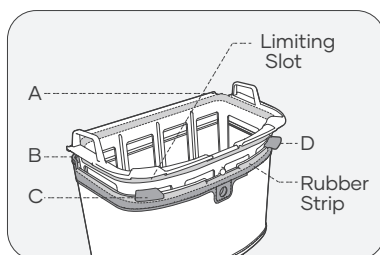
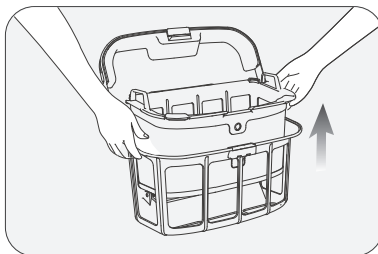
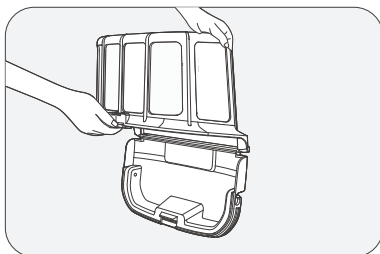
1. Place the device on a flat surface and lift the top shell.
2. Remove the filter box by lifting its handle.



3. Press the latch on the filter box and lift the top shell handle to open it.

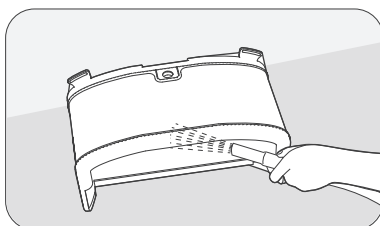
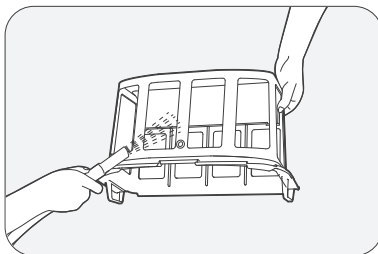
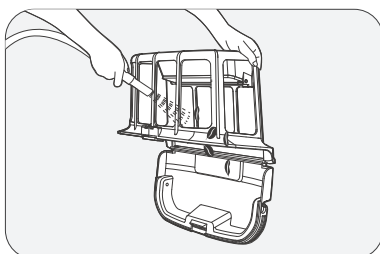


4. Empty the filter box and remove the replaceable MicroMesh™ ultra-fine filter.



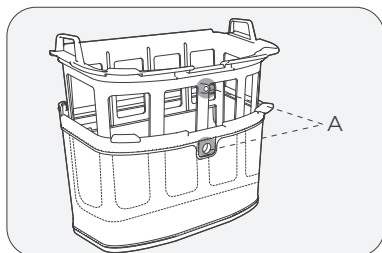
Remove the A, B, C, and D latches on the replaceable MicroMesh™ ultra-fine filter rubber strip from the limiting slot.

5. Rinse the replaceable MicroMesh™ ultra-fine filter and filter box separately.

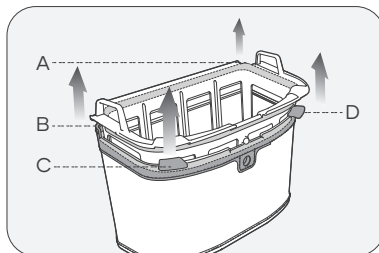


The replaceable MicroMesh™ ultra-fine filter needs to be rinsed inside and outside. Scrub it by hand if necessary.

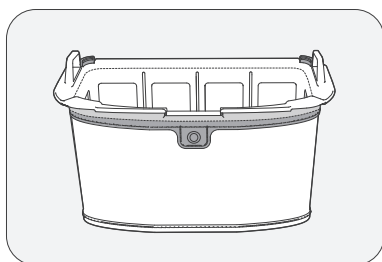
- After drying the replaceable MicroMesh™ ultra-fine filter and filter box, install the filter in the filter box, and insert the filter box back into the device.



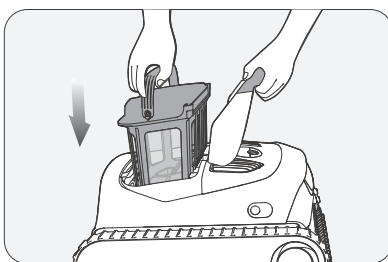
Ensure that A on the filter box is aligned with A on the replaceable MicroMesh™ ultra-fine filter.



Pull up the four corners A, B, C, and D on the rubber strip in turn. Ensure that they are stuck in the limiting slot of the replaceable MicroMesh™ ultra-fine filter.



After installation, check whether the rubber strip is all stuck into the limiting slot.



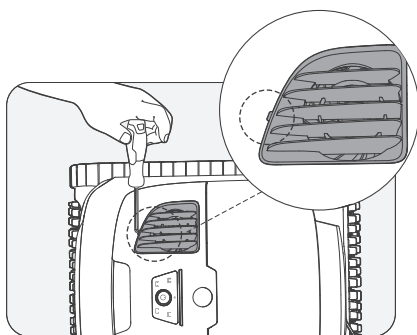
Notes:

- After each cleaning task, promptly remove the device from the pool and clean the filter box immediately. Avoid leaving the device in the pool for extended periods.
- Drying the replaceable MicroMesh™ ultra-fine filter and filter box after each cleaning is not required and is recommended solely to prevent moisture-related odors.
- When drying or storing your device, including the replaceable MicroMesh™ ultra-fine filter and filter box, it's recommended to store them in a well-ventilated area, out of direct sunlight.
- The replaceable MicroMesh™ ultra-fine filter can trap particles as small as 3-10μm, such as silt and some algae. When visible debris is minimal (e.g., stones, leaves, sand, debris, hair) and the water appears cloudy or some algae, it is recommended to use both the filter box and the replaceable MicroMesh™ ultra-fine filter. If there is a significant amount of visible debris, it is recommended to use only the filter box and not use the replaceable MicroMesh™ ultra-fine filter.

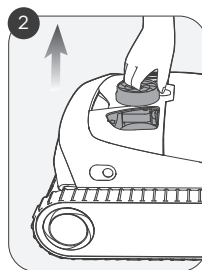
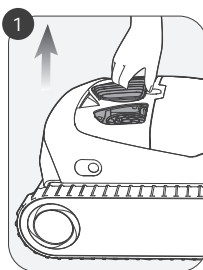
- It is advisable to use a high-pressure water gun to clean the replaceable MicroMesh™ ultra-fine filter and the filter box to ensure thorough cleaning.
- After several uses, the surface of the replaceable MicroMesh™ ultra-fine filter may show signs of wear, which does not impact its performance.
- The replaceable MicroMesh™ ultra-fine filter is a consumable item and should be replaced every 30 uses to maintain effective filtration.

4.2 Cleaning the Propeller

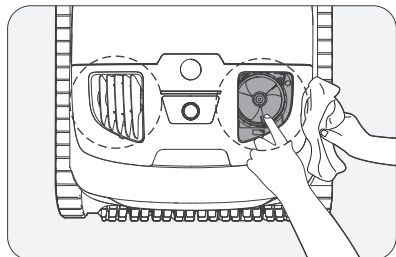
1. Use a flathead screwdriver to pry open the drain cover.



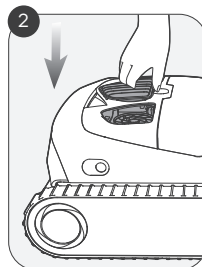
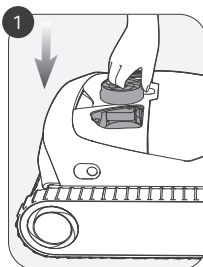
2. After removing the drain cover, remove the propeller cover to expose the propeller.



3. Remove any debris entangled in the propeller.

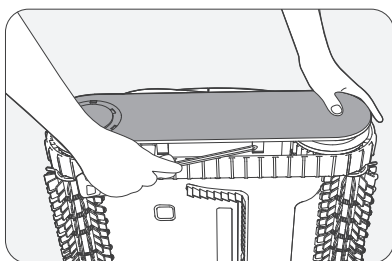


4. After cleaning the propeller, reattach the propeller cover followed by the drain cover.

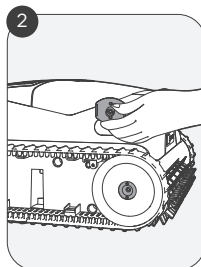
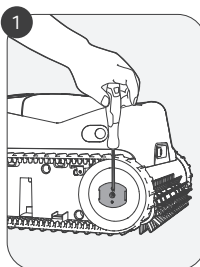


4.3 Replacing the Caterpillar Tread

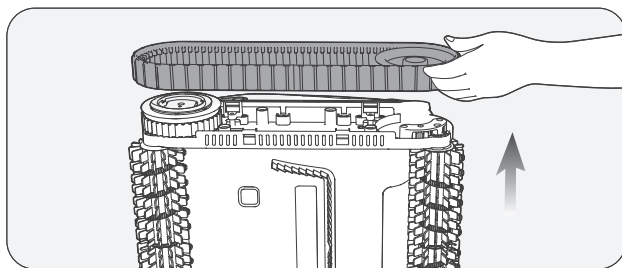
1. Remove the side cover plate from the device: Lay the device on its side, remove the 4 clips on the side cover plate with the flathead screwdriver, and pull out the side cover plate upwards.



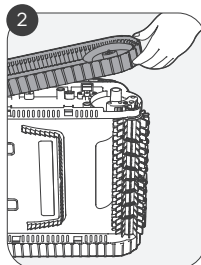
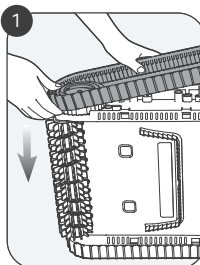
2. Remove the screws and the guide sleeve from the rear wheel.



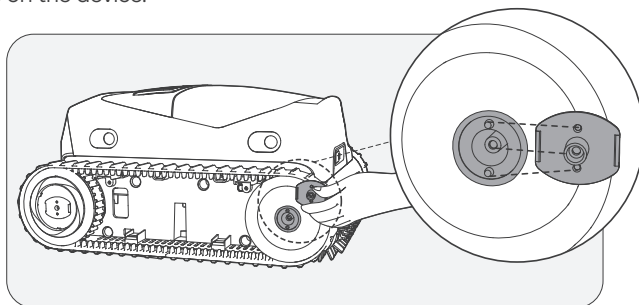
3. Remove the rear wheel and caterpillar tread of the device by gently pulling on each piece.



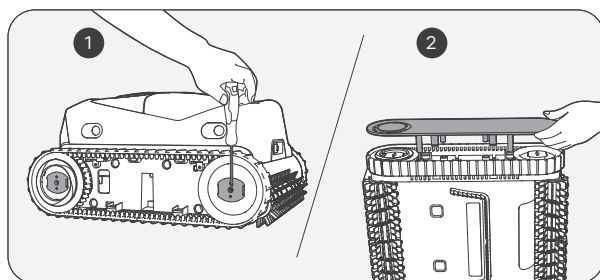
4. Align the gears of the replacement caterpillar tread with the gears on both wheels. Reinstall the rear wheel and the caterpillar tread, ensuring they are secured along the tread sleeves.



5. Install the rear wheel guide sleeve, ensuring the top of the three shafts aligns with the hole on the device.

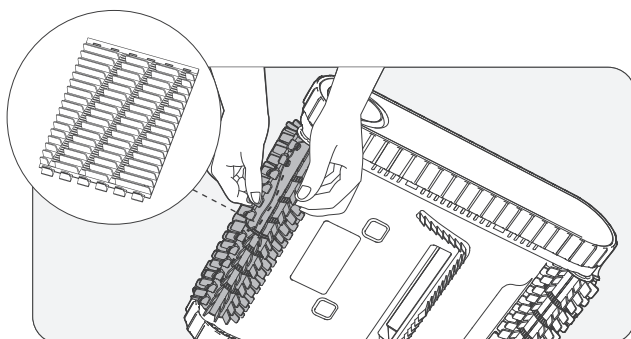


6. Tighten the screws and reinstall the side cover plate. Repeat this step for the other caterpillar tread.

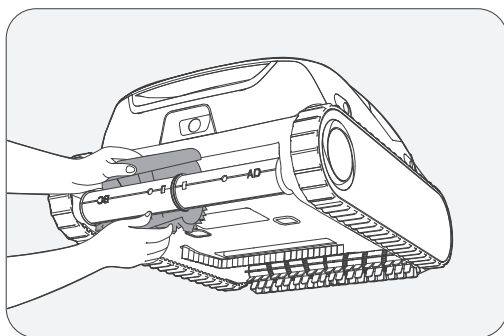


4.4 Replacing the Roller Brush

1. Remove all the silicone buckles from your current roller brush.



2. Once removed, take the replacement roller brush and align the silicone buckles with the slots. Press the buckles into each slot to secure the new roller brush to your device. Repeat this step for the other roller brush.












4.5 Powering Off and Storing Your Aiper

During off-seasons, such as winter or long vacations, when your Aiper device isn't in use, follow these steps to keep it in top shape:


1. Fully charge the device before storing it. Ensure the device is turned off and disconnected from the charger before storing.
2. Thoroughly clean the entire device, including the top and bottom shells, wheels, brushes, and charging port to remove any dirt.
3. Dry the device with a tissue or soft cloth, and ensure the charging port cover is properly closed.
4. Store the device in its original packaging in a cool, dry, and well-ventilated place.
5. Recharge the battery every six months to maintain its health.

5. Specifications

Model: PRT1
Pool Size: 200m ² (2150 Sq.Ft)
Rated Input: 25.2V \approx 3.0A
Charger Model: GM95-252300-2FGN
Charger Input: 100-240V \sim , 50/60Hz, 2.5A
Charger Output: 25.2V \approx 3.0A
Charging Time: 4-6 Hours
Suction Power: 25200 LPH (6600 GPH)
Battery Pack Life: 180 Minutes
Battery Pack Capacity: 7800mAh (168.48Wh)
Battery Pack Voltage: 21.6V
Water Protection Rating: IPX8
Charger Protection Degree: IPX7
Max Water Depth: 3m (10 ft)
Bluetooth Frequency Range: 2.400-2.484GHz, Maximum E.I.R.P: 12dBm
2.4G Wi-Fi Frequency Range: 2.400-2.483GHz, Maximum E.I.R.P: 20dBm

	Direct current.
	Alternating current.
	Class II equipment.
	Switch mode power supply.
	Polarity of d.c. power connector.
	Short-circuit-proof safety isolating transformer.
	For indoor use only.
	If the pins of the plug parts are damaged, the plug-in power supply shall be scrapped.
	Read user's manual.

6. LED Indicator

Device Status Indicators	Device Status	Status Description
LED Status Indicator	Pulsing Red	Charging (Battery < 15%).
	Pulsing Blue	Charging (Battery 15-50%).
	Pulsing Green	Charging (Battery > 50%).
	Solid Green	Charging complete.
	Pulsing Yellow	To Reset Your Device: Hold the  button for ten seconds. Your device will then be restored to its factory settings.
		OTA in Progress: Your device is automatically updating to the latest firmware.
	Flashing Red	Propeller malfunction or device is stuck.
	Solid Red	Low battery (Battery < 15%). Automatic shutdown soon.
	Solid Blue	Moderate Battery Level (Battery 15%-50%).
	Solid Green	Operating normally (Battery > 50%).
Wi-Fi Indicator	Pulsing Green	Connecting to Wi-Fi.
	Flashing Green	Wi-Fi is not connecting to the Internet. Please follow the troubleshooting instructions on the App's setup page.
	Solid Green	Wi-Fi Connected.
	Off	Wi-Fi Disconnected.

7. Troubleshooting

NO.	Malfunction	Possible Causes	Solutions
1	Device doesn't turn on.	Insufficient battery power.	Fully charge the device before attempting to clean your pool.
		Battery temperature too high/low.	Only operate the device in an environment between 10°C (50°F) and 40°C (104°F).
2	Device not charging.	Charger not powered or damaged.	Check if the charger plug is securely connected and if the indicator light on the charger is lit. If the plug is properly connected but the light is off, the charger might be faulty. Please contact Aiper customer service.
		Battery temperature too high/low.	Only operate the device in an environment between 10°C (50°F) and 40°C (104°F).
		Extended non-use of the device has caused the battery to discharge.	Follow the <i>Powering Off and Storing Your Aiper</i> section in the <i>Maintenance</i> guide for proper storage of the device. If the device won't charge due to extended non-use, please contact Aiper customer service.
3	Device doesn't avoid obstacles.	Sensor lens is dirty.	Use a soft, dry cloth to clean the sensor lens to prevent obstructions.
4	Device remains on the pool drain for too long.	The device has been caught by the pool drain.	Do not open the pool drain while the device is cleaning. If stuck, the device will free itself
5	Device stuck at waterline in Waterline Mode.	Small protrusion at waterline not detected by sensor.	No action is required; the device will sink to the pool bottom within 1 minute and continue cleaning after avoiding waterline obstacles.

6	Device tilts or shows decreased cleaning performance in water.	Filter box is full.	Please empty and thoroughly clean the filter box.
		Filter is clogged.	Please rinse the filter with a high-pressure water gun.
		If the LED status indicator is flashing red, the propeller may be jammed.	Check for any debris on the propeller and clean it if needed. For details, refer to the <i>Maintenance</i> section for <i>Cleaning the Propeller</i> .
7	Device has stopped working.	If the LED status indicator turns solid red, the battery is low.	If the cleaning task ends early, the device may have been low on battery. Ensure the device is fully charged before use.
		If the LED status indicator is flashing red, the propeller may be jammed.	Check for any debris on the propeller and clean it if needed. For details, refer to the <i>Maintenance</i> section for <i>Cleaning the Propeller</i> .

8. Warranty

This product has passed quality control and safety test conducted by our technicians.

1. This product comes with a warranty that covers your item's battery and motor from the date of purchase. The respective country's legal provisions for warranty conditions shall apply accordingly.
2. This warranty is voided if the product has been altered, misused, or has been repaired by unauthorized persons.
3. This warranty extends only to manufacturing defects and does not cover damage resulting from the mishandling of the product by the owner.
4. The order number or record of purchase must be presented at the request of any repair claim during the warranty period.
5. This is an additional warranty offered by AIPER INTELLIGENT SARL, 43-47 avenue de la Grande Armée, 75116 Paris, France. This warranty does not affect the free of charge remedies for lack of conformity that the consumer holds against the seller, according to law.
6. Warranty Email: service@aiper.com

Declaration of Conformity (CE)

Shenzhen Aiper Intelligent Co., Ltd. hereby declares that this product complies with all the requirements of the applicable EU directives 2014/53/EU & 2011/65/EU .- The full text of the Declaration of Conformity is available by visiting the following link:
<https://eu.aiper.com/aiper-europe-doc-user-manual/>

The EU declaration of conformity can be requested via the address below:
 AIPER INTELLIGENT SARL
 43-47 avenue de la Grande Armée, 75116 Paris, France



This symbol indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.