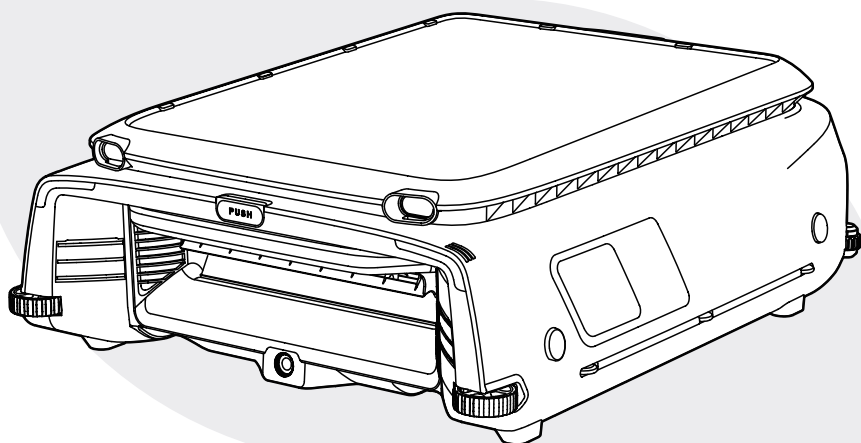




Aiper EcoSurfer Senti

Robotic Pool Skimmer
Écumeuse de piscine robotisée



User Manual / Manuel d'utilisation

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EN

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:

Country	Toll Free Number	Language
United States	+1 8668500666	English
Canada	+1 8338849230	English
Australia	+61 1800497023	English

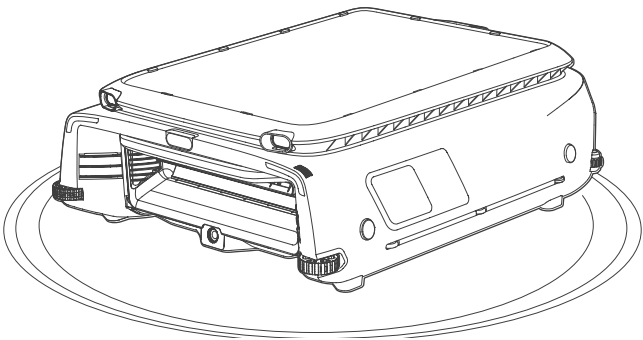
 Email: service@aiper.com



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 Robotic Pool Skimmer (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. READ AND FOLLOW ALL INSTRUCTIONS

2. This device can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the device in a safe way and understand the hazards involved.
3. **WARNING:** To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
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. Prevent unintentional starting. Ensure the power button is off before connecting to the battery pack, picking up, or carrying the device. Carrying the device with your finger on the power button or energizing the device with the power button on invites accidents.

9. Do not run your device out of the water as it may lead to overheating.
10. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
11. This device can only be used with HYY0345245 model lithium battery packs.
12. When the battery is at end of life, the device shall be properly disposed of.
13. 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.
14. Do not use a battery pack or device that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.
15. Do not expose a battery pack or device to fire or excessive temperature. Exposure to fire or temperature above 265°F (130°C) may cause explosion.
16. Follow all charging instructions and do not charge the battery pack or device outside of the temperature range specified in the instructions. Charging improperly or at temperatures outside of the specified range may damage the battery and increase the risk of fire.
17. **WARNING: Risk of Electric Shock.** Connect only to a grounding type receptacle. If replacement of the plug or cord is needed, use only identical replacement parts.
18. **CAUTION:** To reduce the risk of electric shock the pool must be installed no closer than 6 feet (1.8 m) from any electrical outlet. Do not place portable devices closer than 5 feet (1.5 m) from the pool.
19. 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.

20. WARNING: To reduce the risk of electric shock, do not use an extension cord to charge your device and instead only charge it via a dedicated wall outlet.
21. WARNING: To reduce the risk of electric shock, replace damaged cord immediately.
22. If the power cord is damaged, it must be replaced or repaired by a qualified electrician or Aiper Customer Care to avoid any hazards.
23. Only certified professionals should disassemble the sealed drive kit of your device.
24. Your device should only be serviced by a qualified technician using official replacement parts.
25. Do not operate your device simultaneously with any other pool equipment, such as a pool filter, cleaner, or skimmer.
26. When putting your device into the water, the top of the device must face upwards and should never be placed upside down or thrown into the swimming pool.
27. Do not drop, pierce the shell, or intentionally damage the device in any way, as this may void your warranty.
28. Ensure the device is turned off while not in use or while performing maintenance.
29. When not in use, store the device indoors, in a cool, well-ventilated area.
30. CAUTION:
 - FOR USE WITH SWIMMING POOLS ONLY.
 - SUBMERGE THE SENTI-PROBE IN WATER ALL THE TIME.
 - TO REDUCE THE RISK OR INJURY, USER MUST READ MANUAL.
 - FOR USE ONLY WITH AUTHORIZED AIPER CHARGER, MODEL: GC16-168100-1C/GC16-168100-4C.

SAVE THESE INSTRUCTIONS

FCC Statement

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

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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:

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

Radiation Exposure Statement:

1. This device complies with FCC radiation exposure limits set forth for an uncontrolled environment.
2. This device should be installed and operated with minimum distance 20cm between the radiator & your body.

Importer: Aiper Intelligent, LLC.

Address: 8735 Dunwoody Place, STE 6, Atlanta, Georgia 30350,
USA (Not for Returns)

US Toll-Free: +18668500666

CA Toll-Free: +18338849230

AU Toll-Free: +611800497023

ISED Statements

This device complies with Innovation, Science and Economic Development Canada license-ICES-003. Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

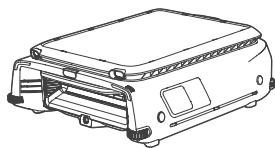
CAN ICES-003 (B)/NMB-003(B)

Radiation Exposure Statement:

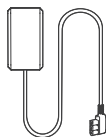
1. This device complies with ISED radiation exposure limits set forth for an uncontrolled environment.
2. This device should be installed and operated with minimum distance 20cm between the radiator & your body.

2 Product Introduction

2.1 In the Box



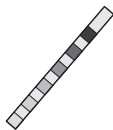
Skimmer × 1



Charger × 1



pH Decreaser
Cartridge × 1



Total Alkalinity
Test Strip × 1



Calibration Powder for
Senti-Probe × 5



Probe Calibration
Cup × 1



Stirring Rod
× 1

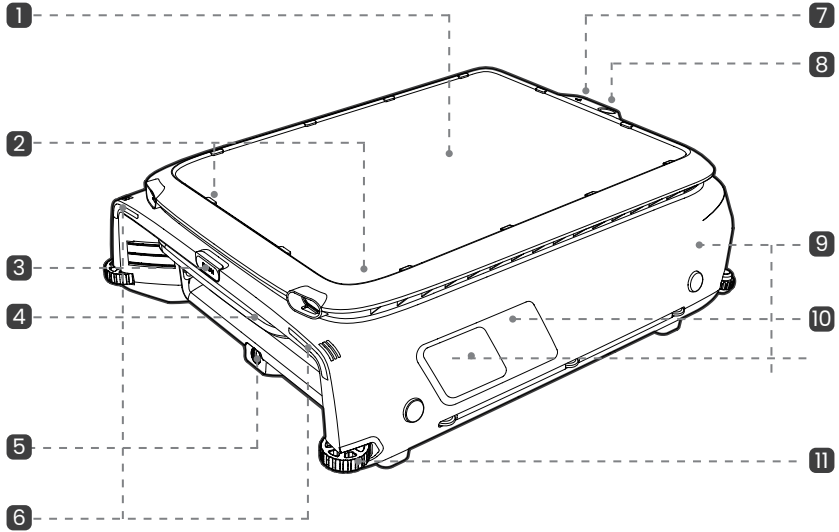


Quick Start Guide
× 1



User Manual × 1

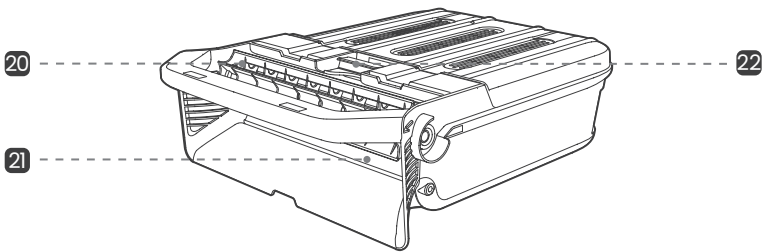
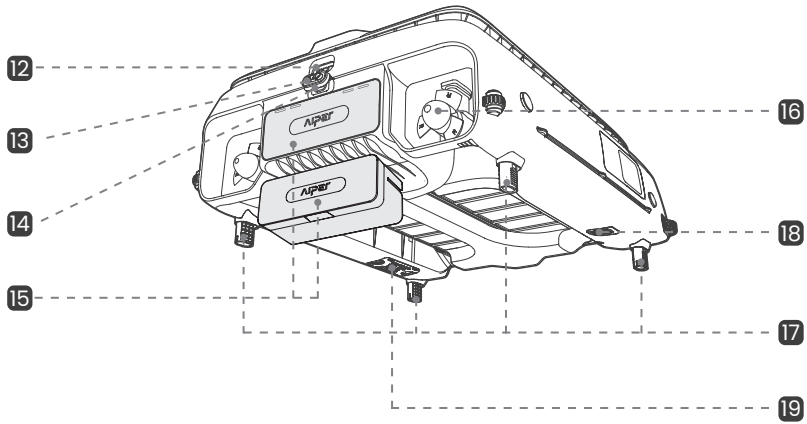
2.2 Component Overview



Skimmer (Side View)

- | | |
|----------------------------|--|
| 1 Solar Panel | 7 Wi-Fi Indicator |
| 2 Sensor | 8  : Power Button |
| 3 Filter Box Access Button | 9 Anti-stranding Bars Switch |
| 4 Filter Box Handle | 10 Water Quality Status Indicator & Senti-Probe Chamber |
| 5 Aiper Vision Camera | 11 Guide Wheel |
| 6 LED Status Indicator | |

Skimmer (Rear View)



Filter Box

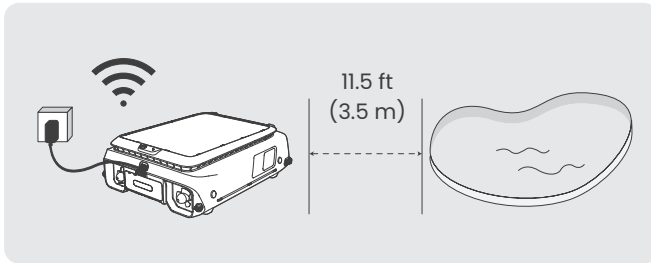
- | | |
|---|--------------------------------|
| 12 Charging Port | 17 Anti-stranding Bar |
| 13 Silicone Plug | 18 Water Pump Filter |
| 14 Chemical Cartridge Switch | 19 Senti-Probe Chamber Cover |
| 15 Chlorine Tablet Cartridge
(Pre-installed) / pH Decreaser
Cartridge (Replaceable) | 20 Impeller |
| 16 Propeller | 21 Overflow Guard |
| | 22 Filter Box Lid Latch Switch |

3 Preparation Before Use

3.1 Charging

Fully charge the device before using it to clean the pool. The LED status indicator will turn solid green when fully charged.

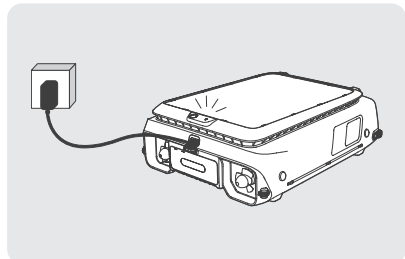
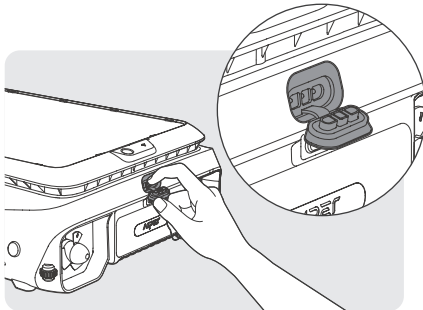
It is recommended that your pool and charging location be separated by a minimum distance of 11.5 ft (3.5 m). For optimal results, the charging location should have Wi-Fi coverage, as this will expedite OTA updates for better product experience.



Before charging, remove the silicone plug and ensure the charging port is dry. If there is any water or dampness in the port, wipe it dry with a clean cloth.

Charging Options:

- **Solar Charging:** The device charges automatically via solar panel in ample sunlight, whether on or off.
- **Plug-in Charging:** When sunlight is insufficient, use the provided DC charger. Connect one end of the charger to the device's charging port (reversible design; inserts either way), then plug the other end into any available power outlet. The LED status indicator will pulse while charging and turn solid green once fully charged.



3.2 Downloading App

Download the Aiper App to unlock more features for your device.

Search for **Aiper** in the App store or scan the QR code below to download and install the Aiper App.



Notes:

- iOS 12.0 or later, or Android 8.0 or later is required for full app functionality on your smartphone or device.
- Once the app is installed, proceed with registration, login, and network setup.
- To use the water treatment function, download the app, register an account, add the device to the app, and fill out all necessary information. Specifically, this information needs to cover the pool's alkalinity, which can be measured using the included total alkalinity test strip.

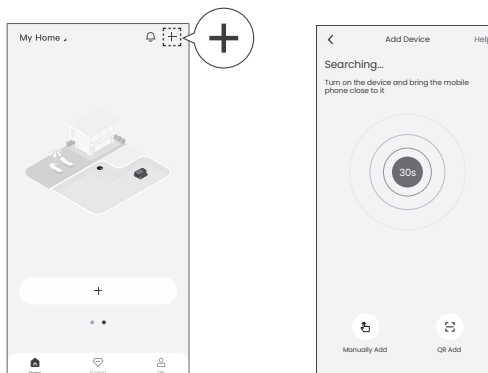
3.3 Network Setup

When the device is powered on for the first time, it will enter Network Setup Mode with a pulsing Wi-Fi indicator. If this process is interrupted, press and hold the  for 5 seconds to re-enter Network Setup Mode.

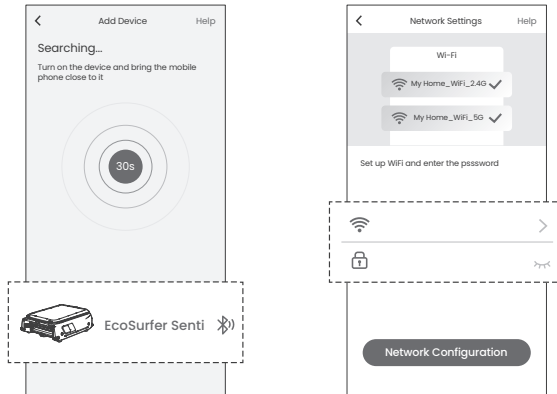
Once in Network Setup Mode, please add the device and complete the network configuration via Bluetooth or QR code.

• Bluetooth Setup:

1. Enable Bluetooth on your phone and grant access to the Aiper App.
2. In the app, tap the  symbol in the top right corner. Bluetooth setup will launch by default, and the app will detect nearby Bluetooth devices.

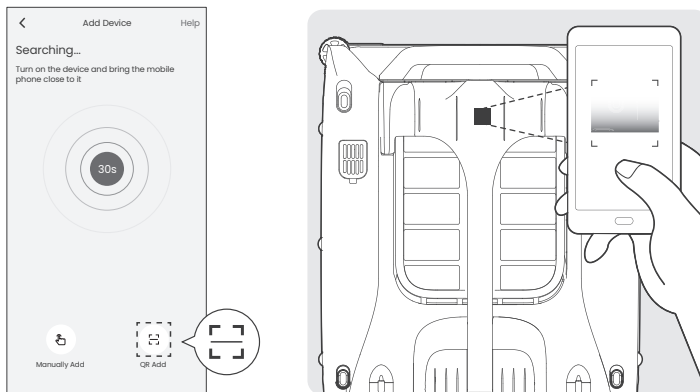


3. Select your device once it is detected, enter the Wi-Fi name and password, and tap **Network Configuration** to finish network setup.



• QR Code Setup:

1. If the device fails to be detected via Bluetooth, tap **QR Add** on the search page, and scan the QR code located on your Aiper device.



2. 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.

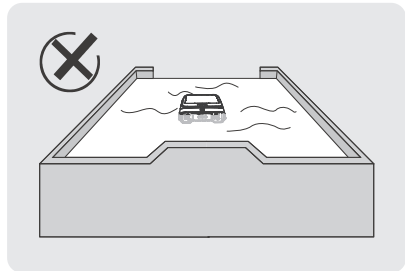
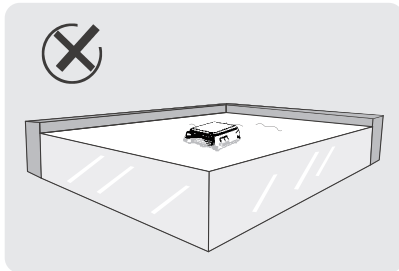
4 Using Your Aiper EcoSurfer Senti

4.1 Operating Conditions

Please ensure the device is only used in the specified pool environments. Use outside these conditions may result in damage not covered by the warranty.

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

- This device is intended only for cleaning pool water surface.
- This device works for most swimming pools but is not suitable for glass pools or infinity pools.



4.2 Water Quality Management

The device has a professional Senti-Probe that precisely detects water pH levels and Oxidation-Reduction Potential (ORP). It automatically dispenses chemicals to treat water based on the detected pH value. Additionally, it provides chlorine residual treatment recommendations in the app using ORP readings.

Note: To purchase replacement chemicals or supplies, visit Aiper official website or Aiper App.

4.2.1 Using Senti-Probe & Water Quality Monitoring

Probe Usage Limitations

CAUTION:

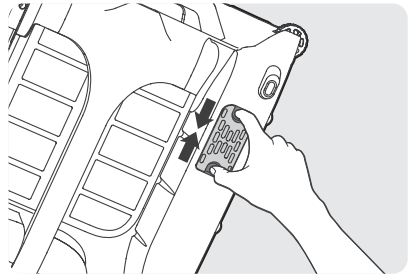
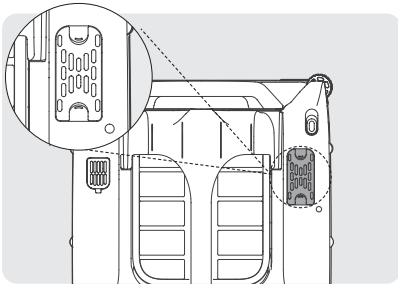
The Senti-Probe utilizes an industrial-grade sensor for precise pH testing. It is fragile and needs to be used with care. Ensure the probe is operated and stored as specified below. Using outside these conditions may cause permanent damage.

Operating and storage temperature range: 41-113°F (5°C-45°C).

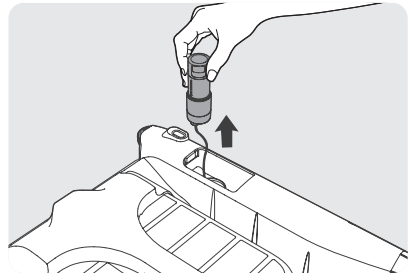
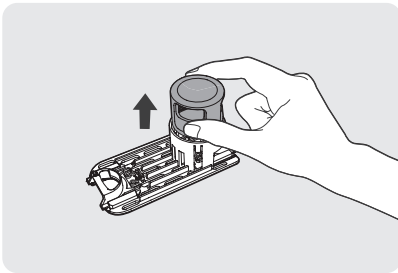
Probe Usage Instructions

For initial use, remove the storage cover from the probe, and replace with the perforated protective cover.

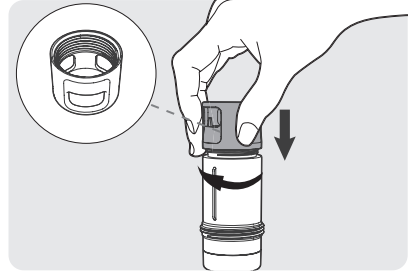
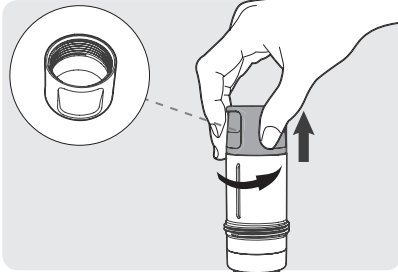
1. Remove the Senti-Probe chamber cover: Lay the device upside down, and locate the Senti-Probe chamber cover on the bottom. Press both side locking buttons inward to unlock and remove the cover.



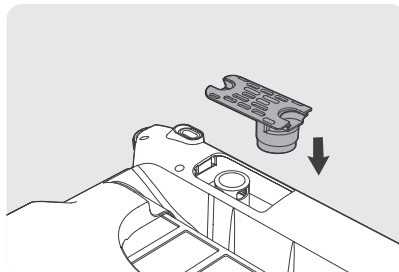
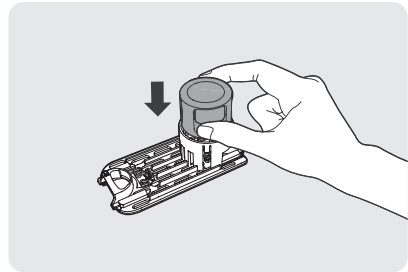
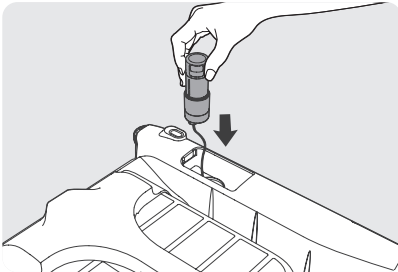
2. Before use, take the perforated protective cover in the chamber cover slot and take the probe out from the chamber.



3. Unscrew the storage cover from the probe first, and then replace with the perforated protective cover.

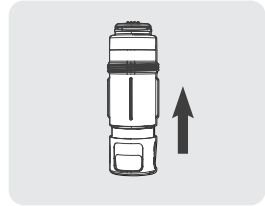
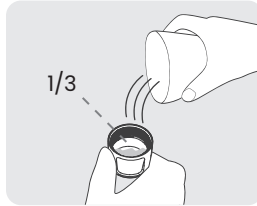
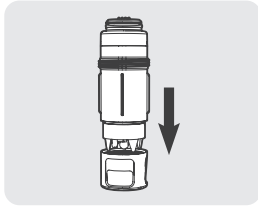


4. Reinstall the probe into the slot, and place the storage cover into the chamber cover slot for easy storage. Fit the Senti-Probe chamber cover securely.



CAUTION:

- Keep the Senti-Probe moist when not used in pool. Do not expose it to air for an extended period.
- If the device is away from pool for more than one day, add water to the storage cover to 1/3 of its volume for the probe, and then replace the perforated cover with storage cover.



Water Quality Monitoring

The water quality monitoring function detects the pH and ORP of the pool.

Before water quality monitoring, place the device in the pool. Both automatic monitoring and manual monitoring are supported.

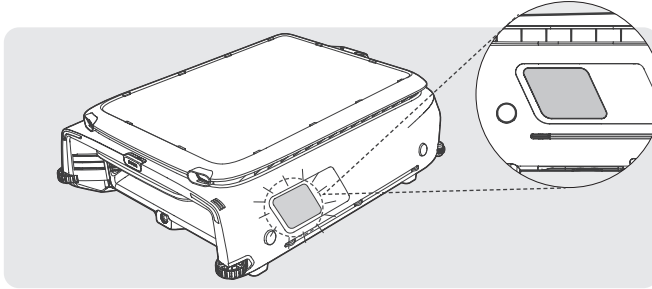
Automatic monitoring: Requires no user action. The device will test and report water quality results once every hour (on the hour).

Manual monitoring: Allows on-demand access to the latest water quality data. Tap the test button in the app, to manually to detect the current water quality status.

The water quality monitoring results are shown in two channels: the water quality status indicator on the left side of the device and the app interface. The indicator in the device shows general status of water quality, go to the app to view the details.

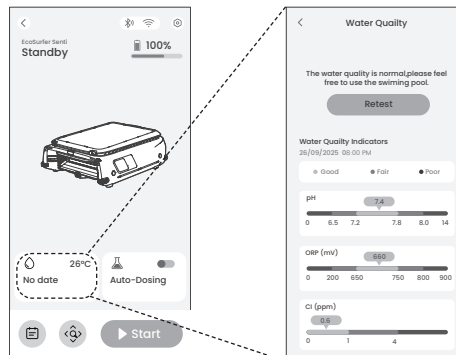
The water quality status indicator:

- If pH and ORP are both in normal status, the water quality status indicator will be in solid green.
- If pH, ORP, or both are in fair status, the water quality status indicator will be in solid orange.
- If pH, ORP, or both are in poor status, the water quality status indicator will be in solid red.



The app interface:

- The water quality status is displayed (Good/Fair/Poor) in the app. For details of each water quality indicator, tap the water quality status section to enter the details page. The details page shows only the latest water quality results. To view the historic data, go to the **History** section.

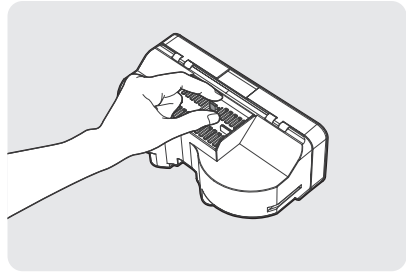
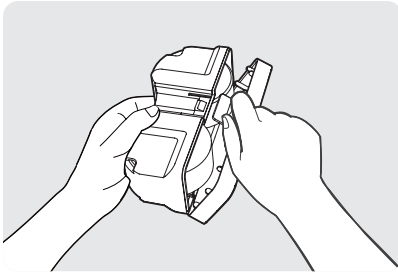


4.2.2 Using Water Treatment Function

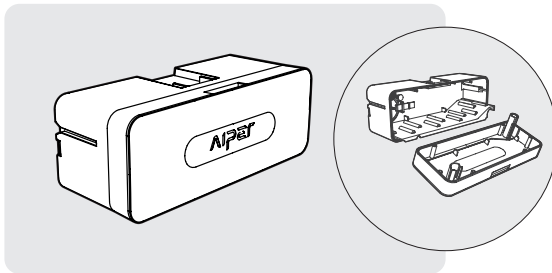
Before using the water treatment feature, please fill out all pool-related information in the Aiper App.

Three chemical cartridges for water treatment are compatible with the device: chlorine tablet cartridge, pH deceiver cartridge, and pH increaser cartridge. Install only one at a time, selecting it based on real-time water quality.

- **Chlorine Tablet Cartridge:** It is reusable and already installed on the device upon leaving factory. Place two 3-inch chlorine tablets on the cartridge. Adjust the dispenser rate as needed.



- **pH Decreaser Cartridge:** One disposable pH deceiver Cartridge is included in the package, and is a consumable item. Purchase a replacement if needed.



- **pH Increaser Cartridge:** Not included in the package, and is a consumable item. Purchase if needed.

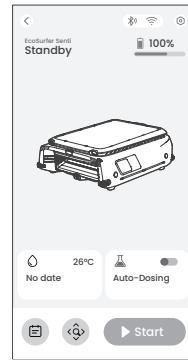
When the water quality status indicator is in solid orange or red, the device will calculate the chemical type and the chemical volume needed.

The device runs automatic water treatment only if the chemical Cartridge meets requirements and has chemicals. For improper or empty Cartridge, treatment pauses, the app alerts the user to replace the Cartridge, and follow-up treatment proceeds automatically.

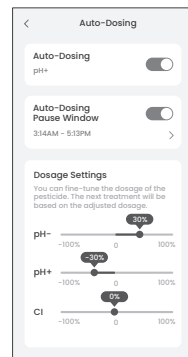
WARNING: Never enter the pool during the water treatment process.

Enabling/Disabling the Water Treatment Feature

Toggle the switch in the app's **Auto-Dosing** section to enable or disable the water treatment. If disabled, the device will not activate water treatment until the switch is re-toggled.



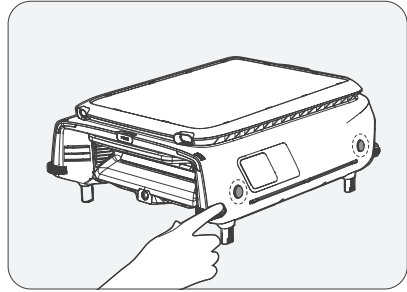
To prevent chemical delivery during pool usage time, set a custom schedule via the app. Tap the **Auto-Dosing** section, then specify a non-delivery time period.



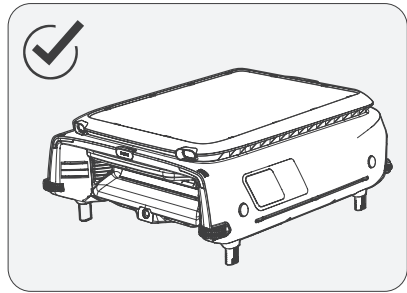
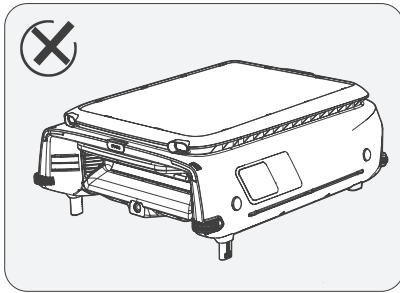
4.3 Using Anti-stranding Bars

If your pool has structures or obstacles near the water surface, such as steps, sunbathing area, the device may become stuck in these areas. Deploy the anti-stranding bars when the device is at risk of becoming grounded to prevent it from getting stuck.

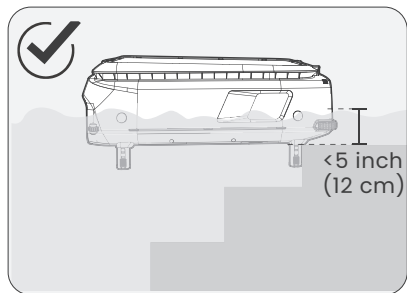
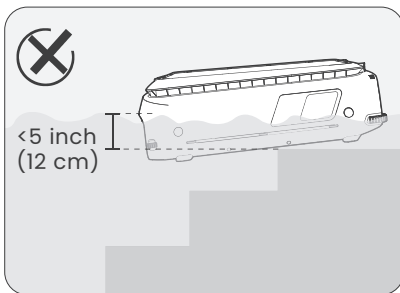
To extend the anti-stranding bars, press the anti-stranding bar switch on both sides of the device. The bars will automatically pop out and can be adjusted to the desired length. To retract them, press and hold the switch and push up on the bottom of the bars until they are locked into place.



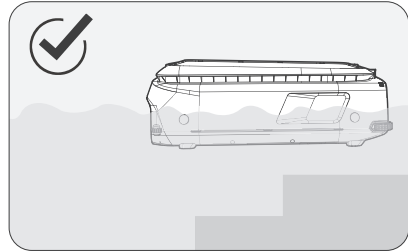
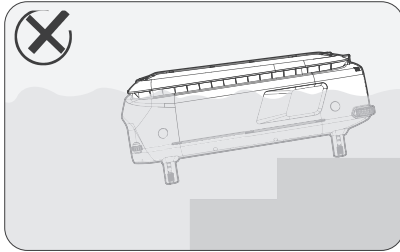
When the use of anti-stranding bars is needed, extend both the front and rear bars simultaneously to keep them balanced.



Typically, when the height difference between the obstacle and the water surface is less than 5 inch (12 cm), extend the anti-stranding bars.



When using the anti-stranding bars causes the device to get stuck, it indicates that the bars are not needed for your pool. Retract the bars in this situation.

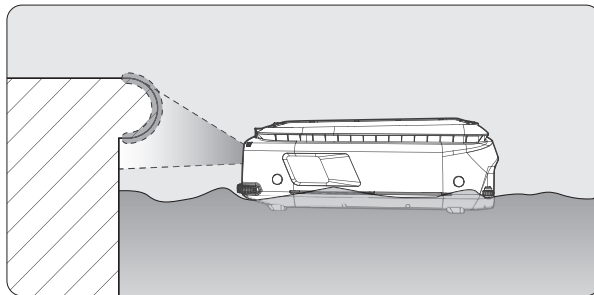


4.4 Setting Cleaning Path

The cleaning path can be set from the Aiper App. Set Full Coverage Mode or Edge Guard Mode based on your pool type. The device operates in Full Coverage Mode by default.

Full Coverage Mode: Suitable for most pools, this mode provides wider cleaning coverage and ensures a more thorough clean.

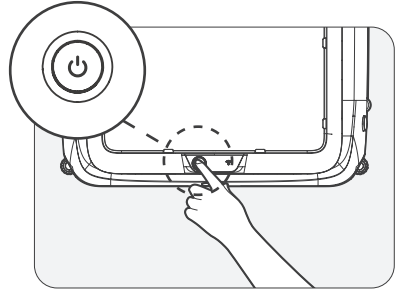
Edge Guard Mode: Ideal for pools with protruding edges. The device cleans without bumping into the pool's sides, helping to prevent scratches and protect both the device and your pool.



5 Cleaning Process

5.1 Turning On/Off

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

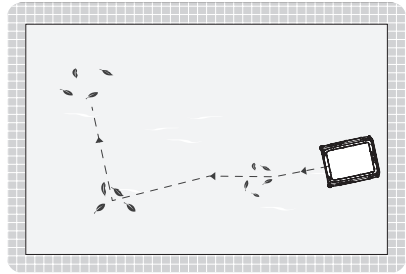
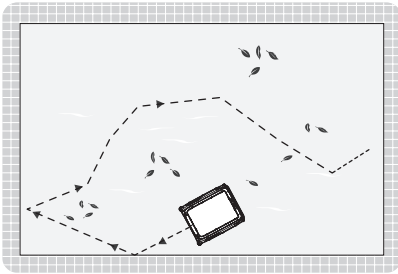


5.2 Working Modes

Turn on the device, and the propeller will start once placed in the water. The device will turn off if it is not placed in water within 5 minutes.

Three working modes are optional: Auto Mode, Scheduled Cleaning Mode and Remote Control Mode.

Auto Mode: The device starts in Auto Mode by default, and the Aiper vision camera can be enabled in the app under this mode. The Aiper vision camera can accurately identify different types of debris, to perform high-efficiency targeted cleaning. When the camera is not activated, the device cleans in random path. When the camera is activated, the device conducts targeted debris cleaning first, then resume random cleaning if debris cannot be detected after a period of time.

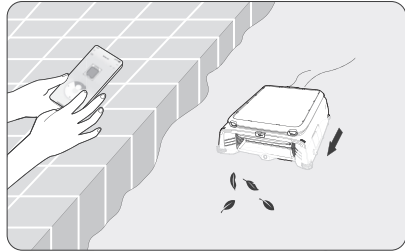


Note: The camera cannot recognize debris at night, and the device will clean in random path only.

Scheduled Cleaning Mode provides two options: Vision camera activated scheduled cleaning, or Standard scheduled cleaning without vision camera being activated.

- **Vision camera activated scheduled cleaning:** Allows to preset cleaning time via the app, the device will conduct targeted cleaning within the preset time, and stop cleaning if debris cannot be detected after a period of time.
- **Standard scheduled cleaning:** Allows to preset cleaning time via the app, and the device will clean according to the "Start Time" and "End Time".

Remote Control Mode: Under this mode, the direction is adjustable via the app, to clean a specific position or retrieve the device to the pool edge.



5.3 Placing and Retrieving the Skimmer

After turning on the device and selecting a working mode, place the device on the water surface from any water entry point, and it will start the selected cleaning task within a short period.



When the device needs to be retrieved for charging or storage, use the App's one-click return feature to guide the device to the nearest pool edge, and lift it out with hands.

In the App, tap **Return** and select a direction from the pop-up to make the device return to the specified position. To skip direction adjustment, tap **Return** again, and the device will return to the pool edge in its current direction.

