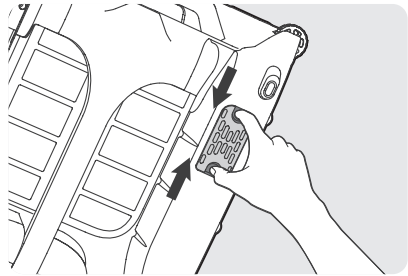
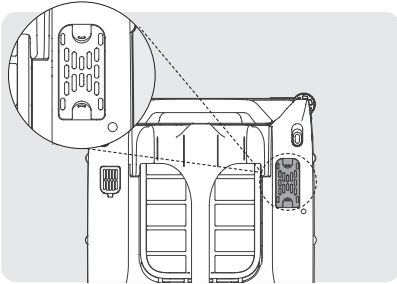


6 Maintenance

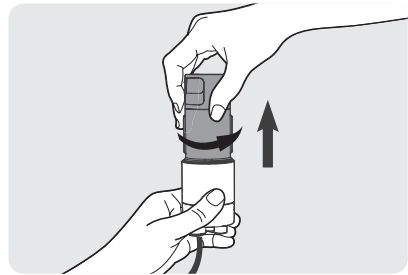
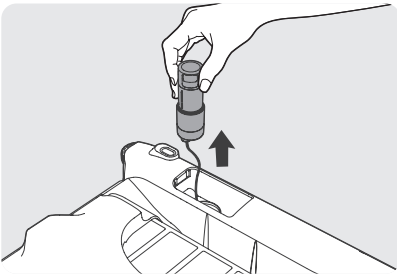
6.1 Replacing the Senti-Probe

The service life of the Senti-Probe is approximately 1 year. Replace the probe as prompted by the Aiper App's timely reminder.

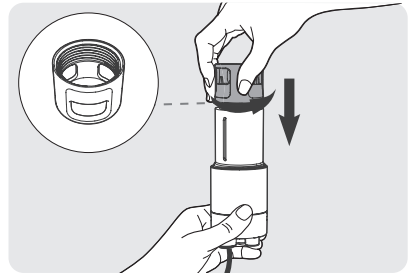
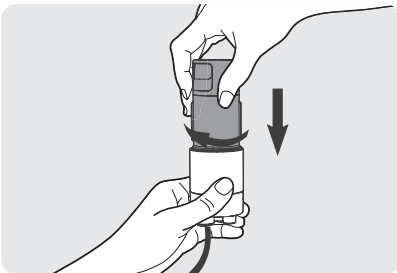
1. Remove the Senti-Probe chamber cover: Lay the device upside down, and locate the Senti-Probe chamber cover on the bottom. Press both side locking buttons inward to unlock and remove the cover.



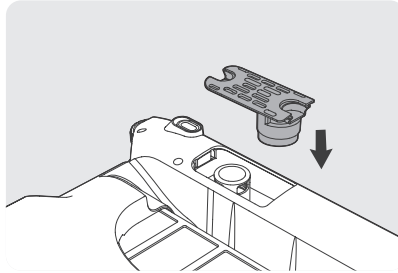
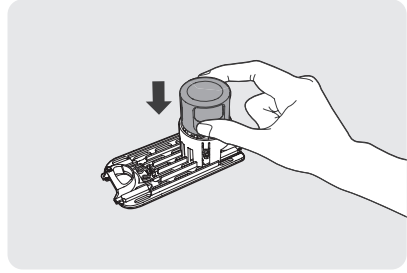
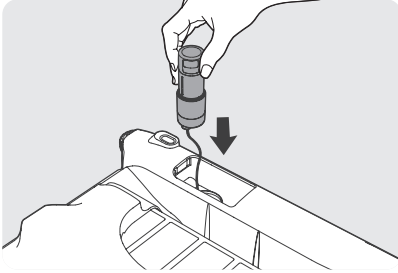
2. Take out the old probe from the slot, hold the bottom position and unscrew in counterclockwise direction to remove it.



3. Take out the new probe, and screw it to the probe slot in clockwise direction. Replace the storage cover with the perforated protective cover.



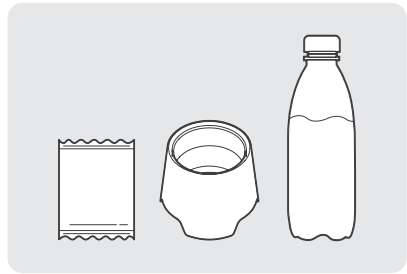
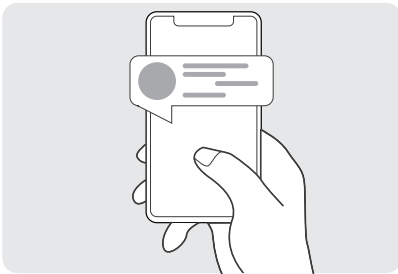
4. Reinstall the probe into the slot, and place the storage cover into the chamber cover slot for easy storage. Fit the Senti-Probe chamber cover securely.



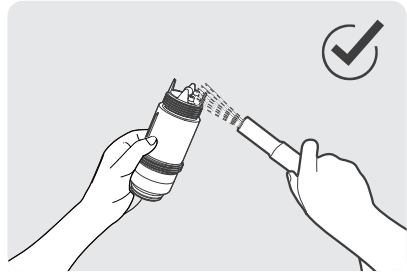
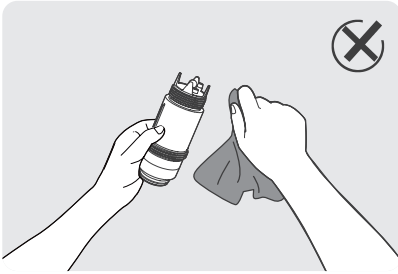
6.2 Calibrating & Cleaning the Senti-Probe

CAUTION: Be careful when operating the device or replacing the probe. The front sensor of the Senti-Probe is fragile and easy to be damaged.

- **Calibrating the Probe:** The probe will require calibration after use for a period of time. Every 60 days, the app will prompt for re-calibration. Active calibration is optional if necessary. Please prepare the probe calibration cup and calibration powder, bring purified water, and follow the steps in the app to perform calibration.



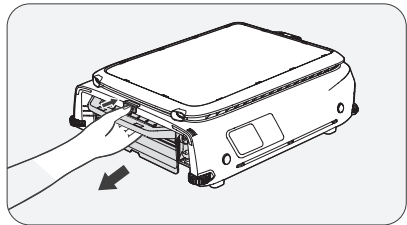
- **Cleaning the Probe:** If the front sensor of the Senti-Probe is dirty, DO NOT wipe it. Only rinse with tap water or purified water.



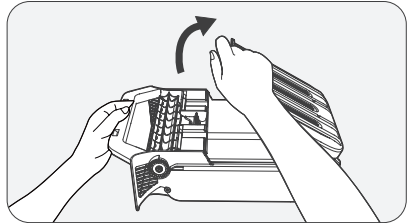
6.3 Cleaning the Filter Box

To maintain optimal performance, clean the filter box every 2–3 days.

1. Place the device on a flat surface. Hold the device with one hand, press the filter box access button with another hand and pull the filter box out gently.

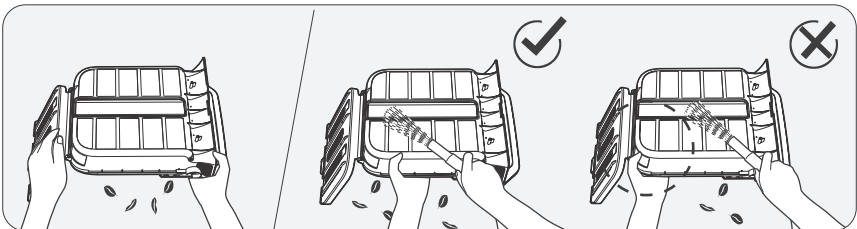


2. To open the filter box, use your hand to release the filter box fixing clip and lift the lid.



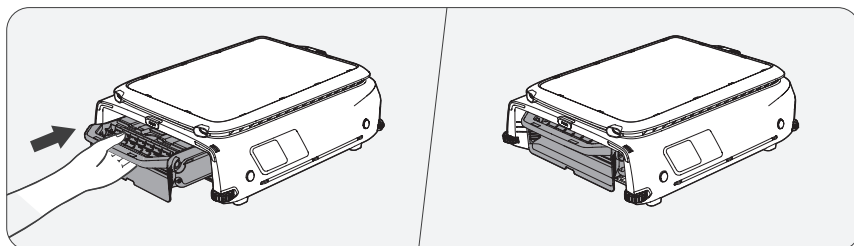
CAUTION: When opening the filter box, keep the suction port upright to prevent the debris from spilling out.

3. Empty the debris inside the filter box and rinse it with water. It is recommended to rinse with high-pressure water gun to ensure thorough cleaning.



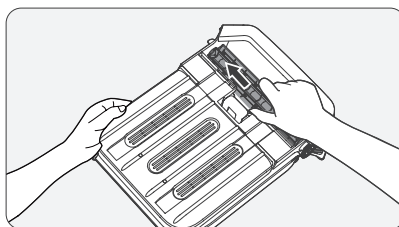
CAUTION: Keep hands clear of the pinch point while rinsing.

- Slide the filter box back into the device along the guides until you hear a click, indicating that the filter box is securely in place.

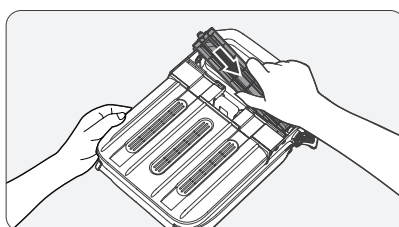
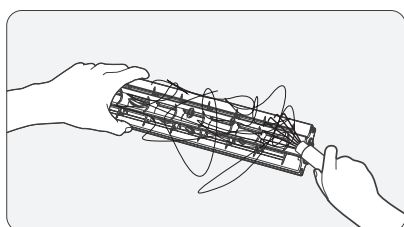


6.4 Cleaning the Impeller

- Push the impeller to one side with hand, then gently remove it.

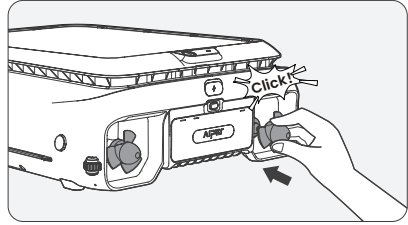
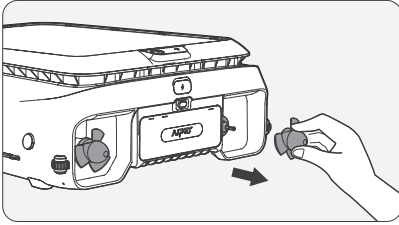


- Clean any debris tangled on the impeller, and then reinstall them. Ensure the impeller are securely fixed into the slots on both sides.



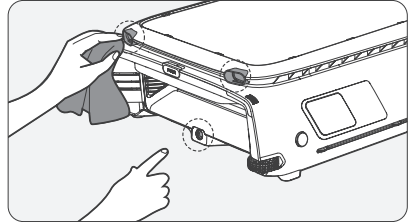
6.5 Cleaning the Propeller

1. If the propeller is tangled with debris, please ensure the device is turned off, remove and clean the propeller's blades.
2. After cleaning the propeller's blades, reattach the blades to their original position until you hear a click, indicating the blades are securely in place.



6.6 Cleaning the Camera and Sensor

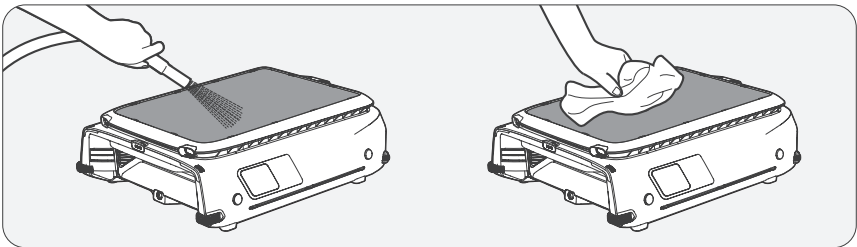
Use a soft, dry cloth to clean the camera and sensor lens to keep it free from dust.



6.7 Cleaning the Solar Panel

White residue from pool water chemicals/minerals may appear on the solar panel after use. Rinse with clean water and wipe dry with a soft cloth..

To ensure optimal charging efficiency, it is recommended to clean the solar panel every week.

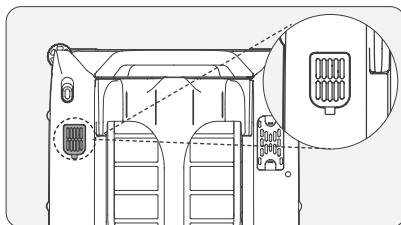


WARNING: Avoid using a high-pressure water gun or abrasive tools to clean the solar panel, as this may damage the panel and void the warranty.

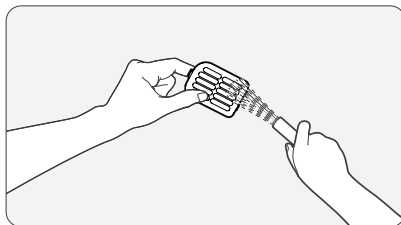
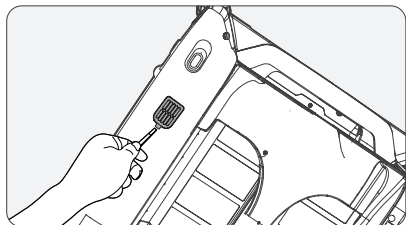
6.8 Cleaning the Water Pump Filter

To ensure effective filtration, clean the water pump filter regularly.

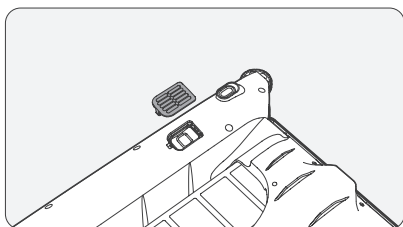
1. Place the device upside down, and find the water pump filter at the bottom.



2. Use a flathead screwdriver to remove the water pump filter, and rinse the filter with water thoroughly.



3. After cleaning the water pump filter, reattach it back in its original position.



6.9 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 storage. Ensure the device is turned off and disconnected from the charger before storage.
2. Thoroughly clean the entire device, including the top and bottom shells, wheels, and charging port to remove any dirt.
3. Dry the device with a tissue or soft cloth, and ensure the silicone plug for the charging port 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.

7 Specifications

Model: SKB30-D

Rated Input: 16.8V $\approx$ 1.0A

Charger Model: GC16-168100-1C/GC16-168100-4C

Charger Input: 100-240V~, 50/60Hz, 1.0A

Charger Output: 16.8V $\approx$ 1.0 A

Charging Time: 6 Hours

Battery Pack Life: 30+ Hours

Battery Pack Capacity: 5200mAh (74.88Wh)

Battery Pack Voltage: 16.8V $\approx$

Water Protection Rating: IPX8

Water Quality Testing Range:
Temperature: 41-113°F (5°C-45°C)
pH Value: 0-14
ORP: 0-1000mV
Altitude: < 6560 ft (2000 m)
Mains Voltage Fluctuation: +/- 10%
Operation Temperature: 41-113°F (5-45°C)
Humidity: ≥ 80% RH
Pollution Degree 2

Water Quality Testing Accuracy:
Temperature: ±1°F (±0.5°C)
pH Value: ±0.2
ORP: ±30mV

Note: Based on industry standards, the water quality testing accuracy is the deviation of the device from the standard solution.

	Direct current.
	Alternating current.
	For indoor use only.
	Read user's manual.

8 LED Indicator

Indicator Type	Indicator Status	Status Description
LED Status Indicator	Solid Green	Operating normally or the device is fully charged.
	Solid Blue	Sun-seeking.
	Solid Orange	Low battery. Automatic shutdown soon.
	Pulsing Green	Charging.
	Pulsing Blue	
	Pulsing Orange	
	Flashing Red	An error has occurred.
	Pulsing Yellow (1-second interval)	Firmware updating.
	Blinking Yellow (5-second interval)	Resetting the device.
Water Quality Status Indicator	Solid Green	pH and ORP are in ideal status.
	Solid Orange	pH, ORP, or both are in fair status.
	Solid Red	pH, ORP, or both are in poor status.
Wi-Fi Indicator	Pulsing Green	• Wi-Fi connection available. • Wi-Fi resetting in progress.
	Solid Green	Wi-Fi connected.
	Pulsing Red	Wi-Fi disconnected.
	Off	

9 Troubleshooting

NO.	Malfunction	Possible Causes	Solutions
1	Device fails to turn on.	Insufficient battery level.	Fully charge the device before using it to clean the pool.
		Battery temperature too high/low.	Only operate the device in an environment between 50°F (10°C) and 104°F (40°C).
2	Device fails to charge.	Charger is damaged or not powered.	Check if the charger 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 50°F (10°C) and 104°F (40°C).
		Extended non-use of the device has caused the battery to discharge.	Follow the Powering Off and Storing Your Aiper section in the Maintenance 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. If the issue persists, please contact Aiper customer service.

NO.	Malfunction	Possible Causes	Solutions
4	Device spins in circles.	If the LED status indicator is flashing red, the propeller may be jammed.	Check the Aiper App for any fault notifications. If any faults are detected, stop the device and refer to <i>Maintenance</i> section for the <i>Cleaning the Propeller</i> .
		Sensor lens is dirty.	Use a soft, dry cloth to clean the sensor lens to prevent obstructions. If the device continues to spin after cleaning, the sensor may be faulty, please contact Aiper customer service.
5	Impeller not spinning during cleaning.	The filter box may not be properly installed.	Reinstall the filter box by sliding it along the guides until you hear a click, ensuring the part is securely in place.
		Impeller may be jammed.	Check the Aiper App for any fault notifications. If there are any, stop the device and refer to <i>Maintenance</i> , paying special attention to the <i>Cleaning the Impeller</i> section.
6	Decreased cleaning performance.	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.
7	Device has stopped working.	If the LED status indicator turns off, it usually indicates low battery power.	Usually indicates low battery power. No action is required; the device will automatically charge and resume operation with ample sunlight. For quicker charging, remove the device from the pool and use the provided DC charger.

NO.	Malfunction	Possible Causes	Solutions
7	Device has stopped working.	If the LED status indicator is flashing red, the propeller or impeller may be jammed.	Check the Aiper App for any fault notifications. If any are found, stop the device and refer to the Maintenance section for Cleaning the Propeller and Cleaning the Impeller .
		If the LED status indicator is pulsing blue, it means the device has a low battery and is charging using sunlight.	No action is required; the device will automatically continue operating with ample sunlight.
8	Device stuck while cleaning.	Device stuck in pool's built-in skimmer.	Reduce the suction power or turn off the pool's skimmer completely while using the device.
		Device is stuck on steps, sun bathing area, or other obstruction.	Adjust the device's built-in anti-stranding bars. For details, refer to Using Anti-Stranding Bars .
		Device is stuck on water tubes, cables, or other narrow area.	Because vision camera cannot recognize cables, it is not recommend to use the skimmer and a robotic pool cleaner with cable simultaneously. If the device gets stuck, it will attempt to free itself automatically. If it fails to do so, you can use the Aiper App's remote control mode to maneuver the skimmer out of the stuck area, or use a hook (not included) attached to a pole to remove it.

NO.	Malfunction	Possible Causes	Solutions
9	Monitor charging status.	Plug-in charging.	The LED status indicator will pulse while charging. For details, refer to the LED Indicator section. When charging is completed, the LED status indicator will turn solid green.
		Solar charging.	Check the battery icon in the Aiper App. If a sun symbol is displayed, the device is charging via sunlight.
10	Device does not perform targeted cleaning of debris.	The VisionPath switch is turned off.	Check if the VisionPath switch is toggled on or not via the Setting section in the app.
		The vision camera is dirty.	Use a soft, dry cloth to clean the camera to prevent obstructions.
		The device is not equipped with fill lights, so that the camera cannot recognize debris at night or when the ambient light is relatively dim, and targeted cleaning cannot be performed.	Under this condition, the device will automatically switch to Full Coverage Mode, and continue cleaning until completion of the cleaning task.

10 Warranty

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

1. This product comes with a 24-month warranty that covers your item's battery and motor from the date of purchase.
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.



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.

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