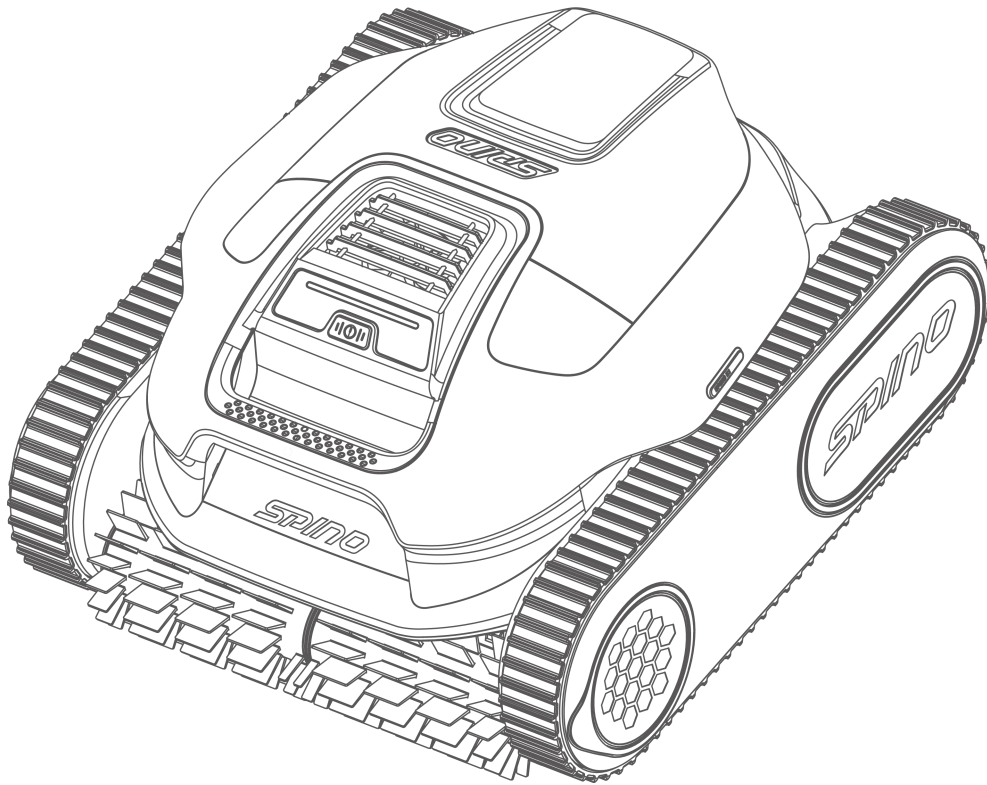




USER MANUAL

Robotic Pool Cleaner

SPINO E1



Original Instructions **Version 2.0**

08/2025

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Unless explicitly agreed otherwise, this manual serves solely as a usage guide, and all statements and information contained herein do not constitute any form of warranty.

Revision Log

Date	Version	Description
05/2025	V1.0	Initial version
08/2025	V2.0	1. Updated beta features 2. Added the Chapter 10 3. Updated technical specifications

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1 Safety Instructions

1.1 General Safety

READ AND FOLLOW ALL INSTRUCTIONS

- Carefully read and fully understand the instructions before operating the robotic pool cleaner.
- Keep the robot out of reach of children and those with reduced physical, sensory, or mental capabilities unless properly supervised. Do not allow anyone in the pool while the robot is operating, or allow children to place it into or remove it from the pool.
- Children must not play with the robot.
- Cleaning and user maintenance shall not be made by children without supervision.
- Ensure that children do not attempt to access the robot while it is operating.
- Only use the robot and accessories recommended by Mammotion. Using unauthorized items may result in incorrect operation or damage.
- This robot must only be supplied at SELV.
- Ensure the robot is turned off and the charger is unplugged before performing any maintenance.
- Pollution of the liquid could occur due to leakage of lubricants.
- Use the robot for regular pool cleaning. If the pool hasn't been cleaned for an extended period, manually remove large debris before using the robot.
- Do not strike, throw, or mishandle the robot to avoid damage or injury.
- The charger must be connected only to a supply circuit that is protected by a ground-fault circuit-interrupter (GFCI). This GFCI should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the charger without the test button being pushed, a ground current may be flowing, indicating the possibility of an electric shock. Do not use the charger. Disconnect the charger and contact the manufacturer for assistance.
- Warning: Use only with TS-A081-2703003 charger.

1.2 Battery Safety

Lithium-ion batteries can explode or cause a fire if disassembled, short-circuited, exposed to water, fire, or high temperatures. Handle them with care, do not dismantle or open the battery, and avoid any form of electrical/mechanical abuse. Store them away from direct sunlight.

- For the purposes of recharging the battery, only use the charger provided with this robot, and operate this charger at least 3.5 meters from the edge of the pool.
- DO NOT ATTEMPT TO REPAIR OR MODIFY BATTERIES! Repair attempts may result in severe personal injury, due to explosion or electrical shock. If a leak develops, released electrolytes are corrosive and toxic.
- This robot contains batteries that are only replaceable by authorized persons.

1.3 Intended Use

Mammotion robots are designed for residential pool cleaning and are not intended for commercial use.

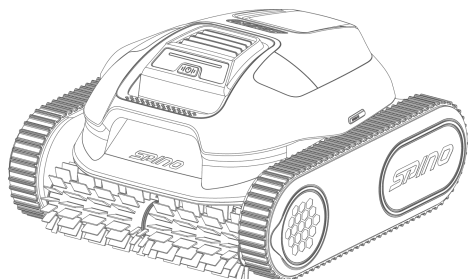
1.4 Disposal

Dispose of this product in compliance with local electronic waste (WEEE) regulations. Do not dispose of it with regular household waste. Instead, bring it to an authorized recycling center or collection point to ensure safe handling and environmentally responsible disposal of electronic components.

SAVE THESE INSTRUCTIONS

2 Introduction

2.1 In the Box



SPINO E1

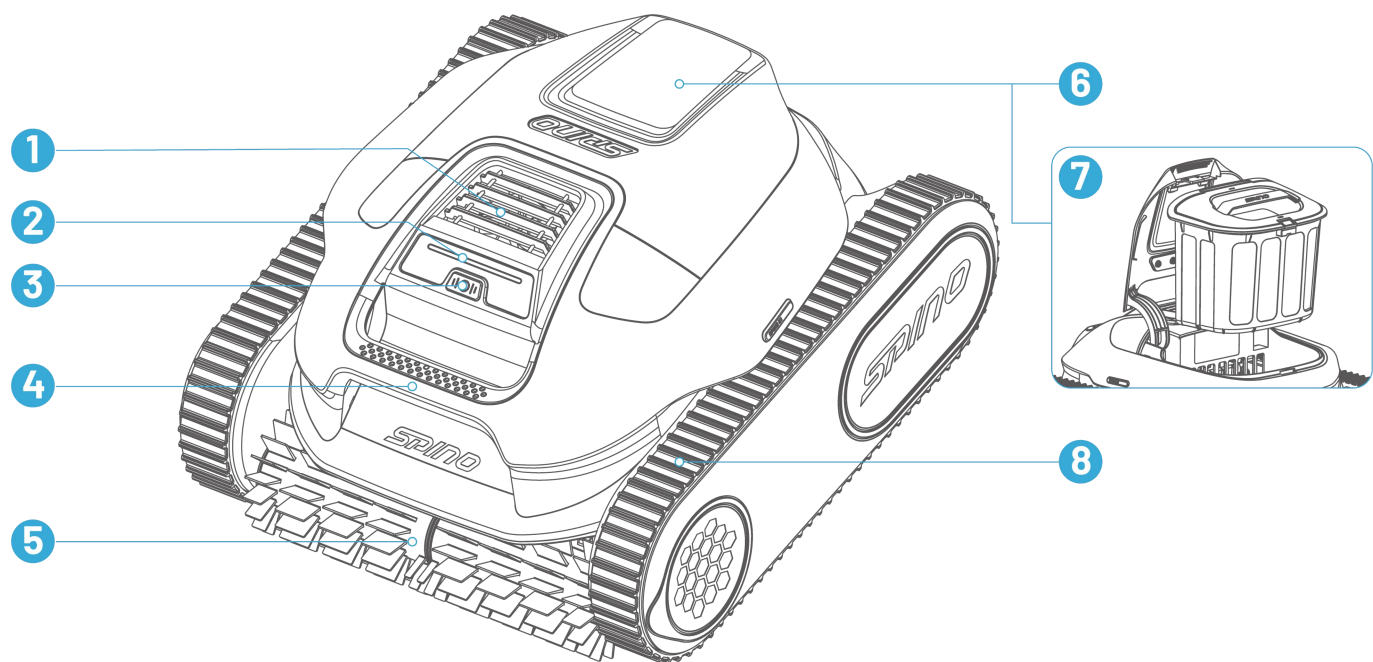


Charger



Hook

2.2 Product Overview



1.

Water Outlet
2.

LED
3.

Power Button
4.

Handle
5.

Roller Brush
6.






Filter Basket Cover
7.

Filter Basket
8.








Caterpillar Tread*2

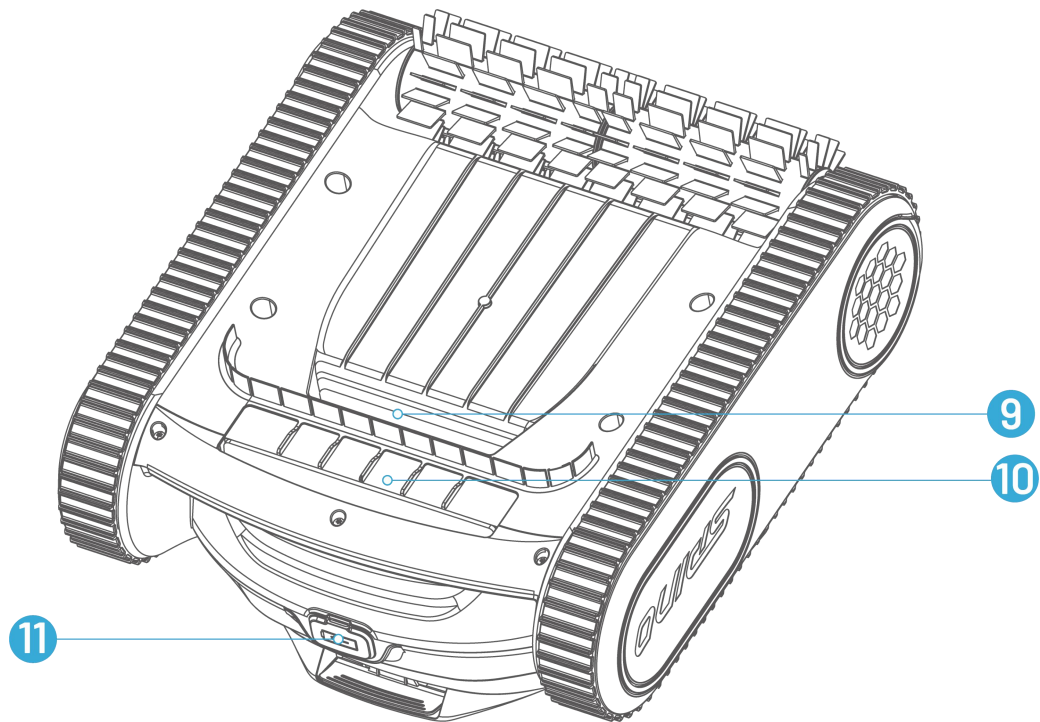
● LED Codes

When the robot is charging:

Color	Battery Level
 Solid Green	Battery=100%
 Breathing Green	75%<Battery<100%
 Breathing Blue	50%<Battery≤75%
 Breathing Yellow	25%<Battery≤50%
 Breathing Red	Battery≤25%

When the robot is off charge:

Color	Battery Level	Description
 Solid Green	$75\% < \text{Battery} \leq 100\%$	/
 Solid Blue	$50\% < \text{Battery} \leq 75\%$	/
 Solid Yellow	$25\% < \text{Battery} \leq 50\%$	/
 Solid Red	$\text{Battery} \leq 25\%$	The robot stops cleaning and parks at waterline.
 Fast Blinking Red	/	An error has occurred.
 Fast Blinking Blue	/	The robot is upgrading.
 Fast Blinking Yellow	/	The filter basket is not properly installed.



9. Water Inlet

10. Drain Outlet

11. Charging Port

3 Operation

3.1 Charge Before Initial Use

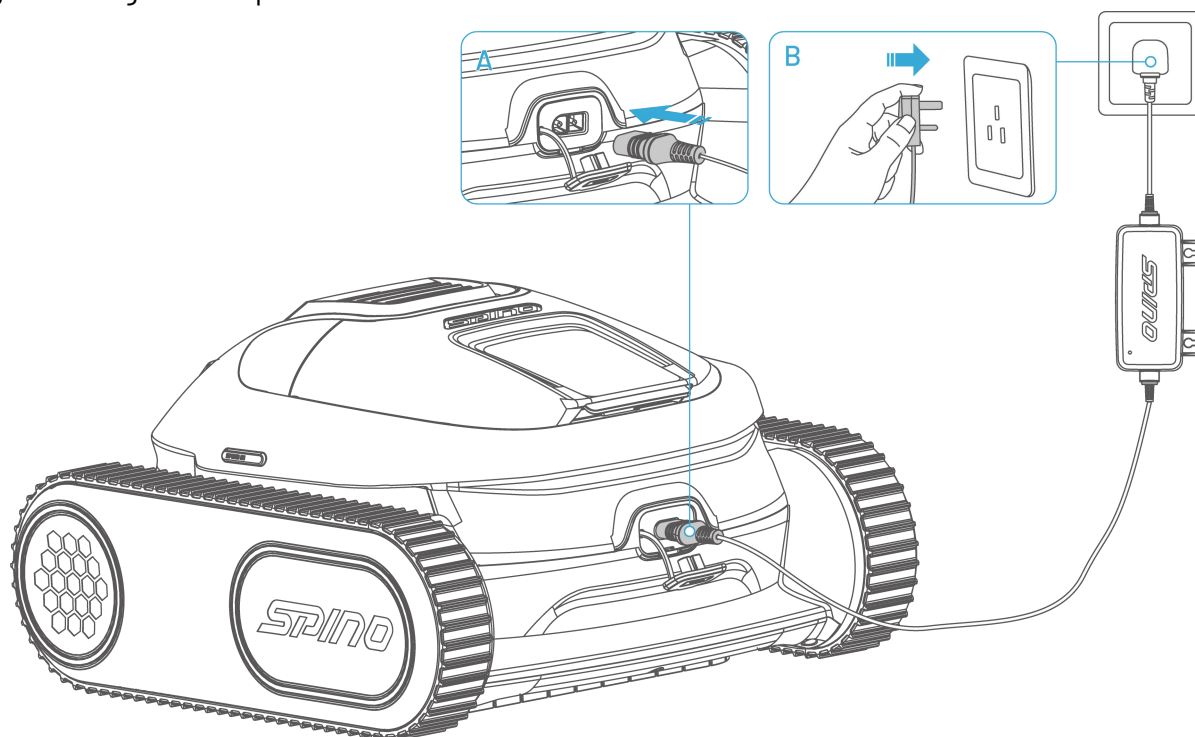


WARNING

DO NOT charge the robot outdoors in rainy conditions.

For initial use, please follow these steps to charge your robot:

1. Remove the rubber plug.
2. Connect the charger to the charging port.
3. Plug the charger into a power socket.



NOTE



- Ensure the charging port and charger connector are as dry as possible before charging.
- For long-term storage, apply an anti-rust agent to the metal contacts of the charging port and connector.

3.2 Cleaning

WARNING



Do not allow children to operate the robot, including placing it into or removing it from the pool. Keep all persons out of the pool while the robot is in operation.

3.2.1 Preparation

- Before cleaning, check whether the filter basket is attached properly.
- Before cleaning, ensure there are no foreign objects such as towels or toys in the pool.
- If the pool hasn't been cleaned for an extended period, manually remove large debris before using the robot.

NOTE

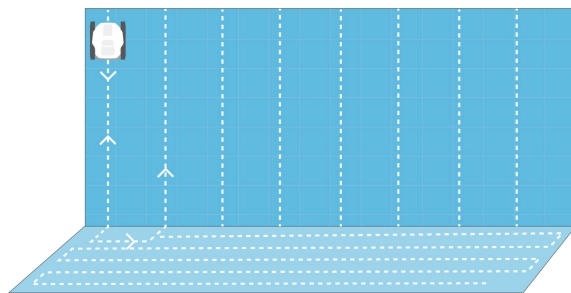
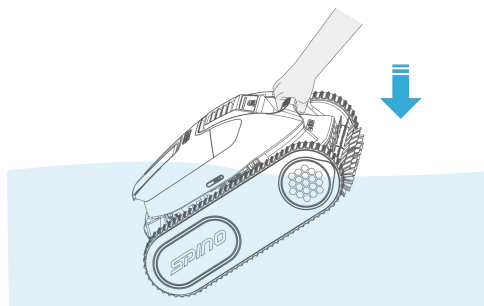
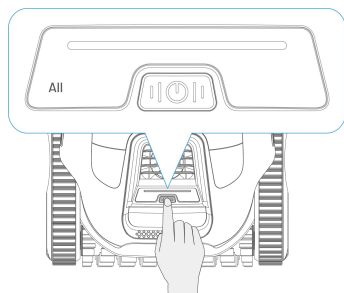


- Do not take out the filter basket during cleaning.
- Do not allow people or animals enter the pool during cleaning.

3.2.2 All Mode

Turn on the robot and briefly press the power button until the "**ALL**" mode indicator lights up. The robot is now set to ALL mode. Place the robot in the water pool. In this mode, the robot will clean the floor, walls, and waterline.

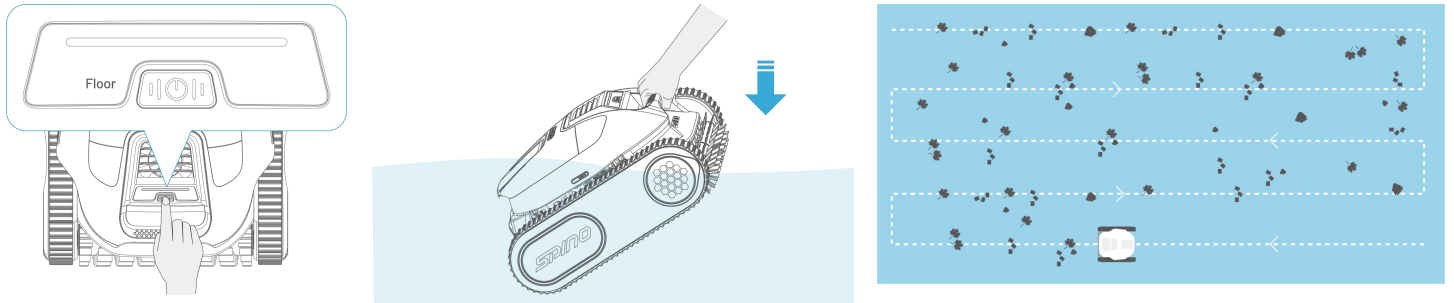
While cleaning the walls, the robot will return to the floor after completing each cleaning path, then move on to the next path.



3.2.3 Floor Mode

Turn on the robot and briefly press the power button until the "**Floor**" mode indicator lights up. The robot is now set to Floor mode. Place the robot in the water pool. In this mode, the robot will clean the floor only.

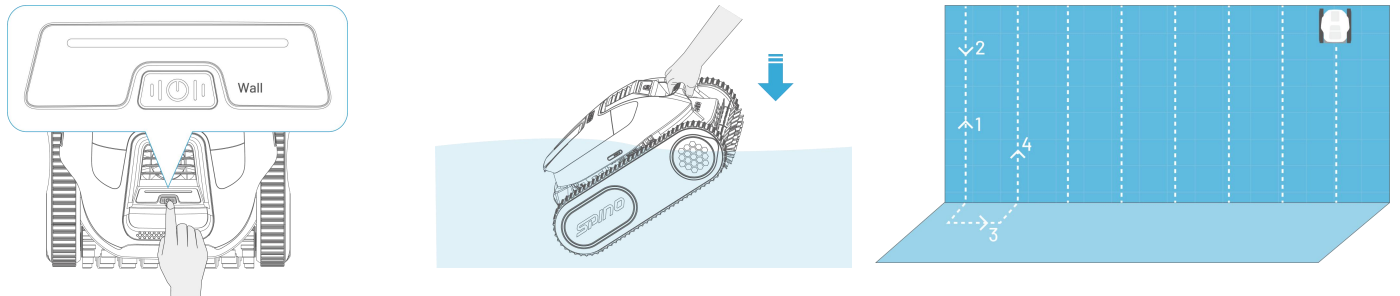
This mode is suitable for cleaning pool floors with leaves, stones, and other larger debris.



3.2.4 Wall Mode

Turn on the robot and briefly press the power button until the "**Wall**" mode indicator lights up. The robot is now set to Wall mode. Place the robot in the water pool. In this mode, the robot will clean the wall only.

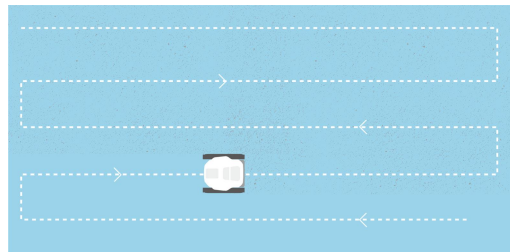
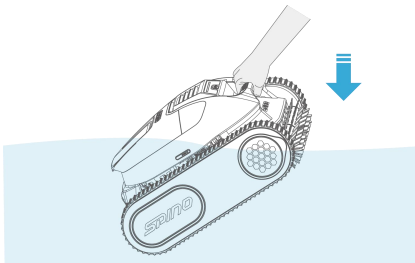
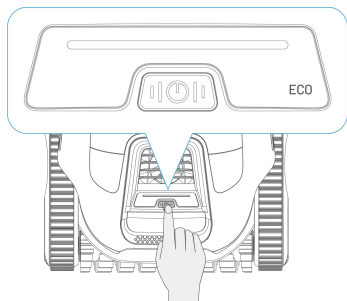
While cleaning, the robot will return to the floor after completing each cleaning path, then move on to the next path.



3.2.5 ECO Mode

Turn on the robot and briefly press the power button until the "**ECO**" mode indicator lights up. The robot is now set to ECO mode. Place the robot in the water pool.

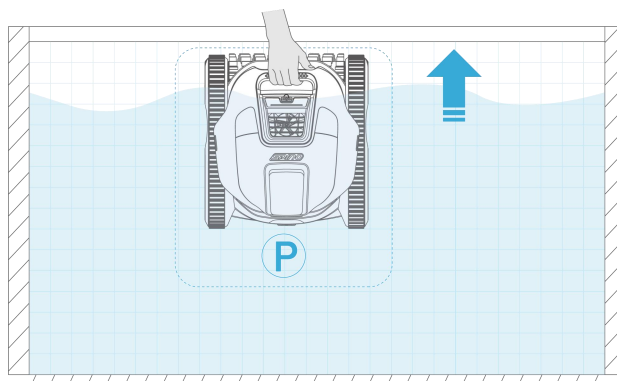
In this mode, the robot will clean the pool floor for 50 minutes every other day until battery is depleted.



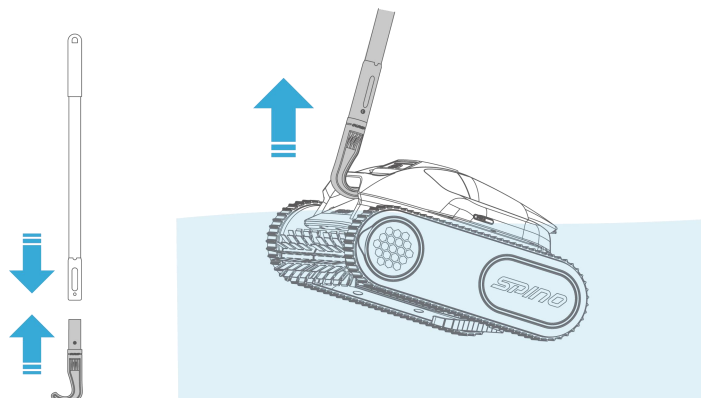
3.3 After Cleaning

3.3.1 Exit Water

After the cleaning task is complete, the robot will automatically climb to the waterline and park there for 15 minutes for your retrieval.



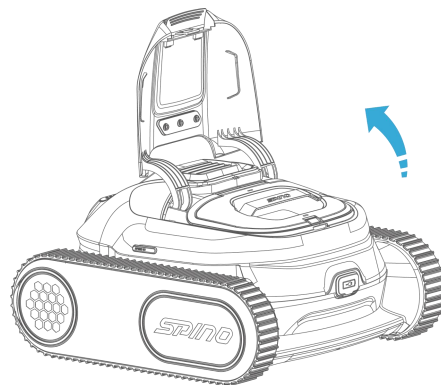
Or you can attach the hook to a standard pole (not included) and use it to lift the robot to the water surface. Then, manually grab the handle to remove the robot from the water.



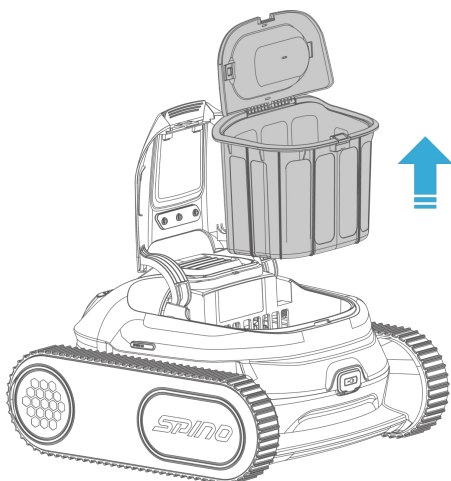
3.3.2 Clean After Use

1. Open the filter basket cover.
2. Take out the filter basket.
3. Empty and rinse the filter basket
4. Rinse the entire robot.
5. Reattach the filter basket.

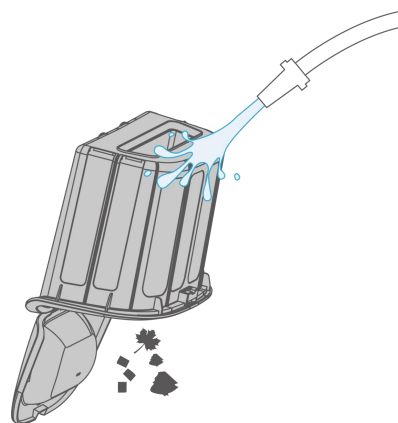
①



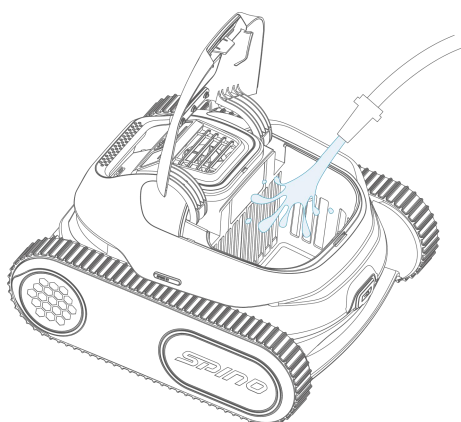
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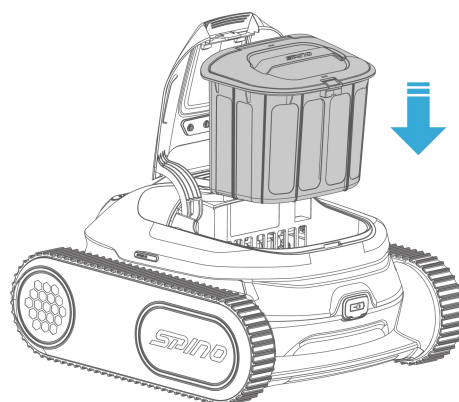
③



④



⑤



4 Mammotion App Operation



NOTE

The screens are only for reference. Please refer to the actual ones.

With the Mammotion app, you can manage your robot. The app allows you to:

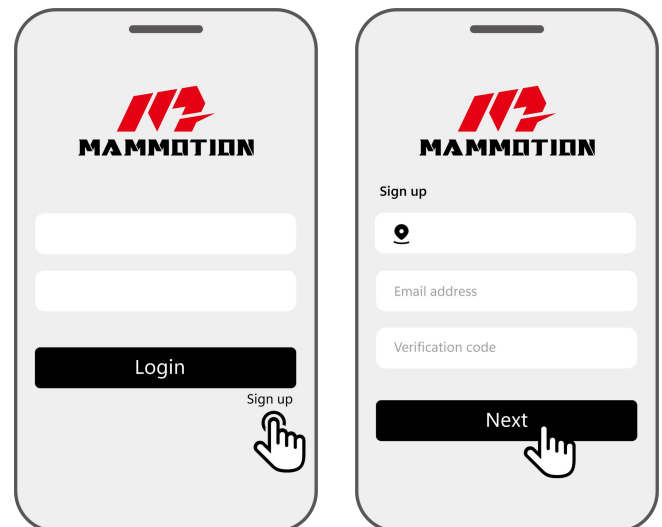
- Easily manage your robot and perform timely firmware updates to keep it running efficiently.
- Upload diagnostic logs directly to the Mammotion technical support team for quick assistance and troubleshooting.
- Seamlessly switch between different cleaning mode.

4.1 Download and Register



For initial use, you can scan the QR code to get it from the Android or Apple app stores, or search for Mammotion in these stores.



Register your account according to the on-screen instructions. If you already has a Mammotion account, input your email address and password to log it in.

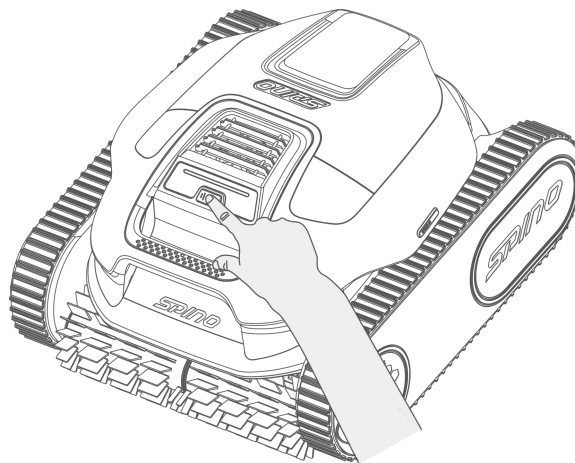


During use, the app may ask you for Bluetooth, Location, and local network access when necessary. For optimal use, it is recommended to allow the above access. For more information, please refer to our Privacy Agreement. Go to Mammotion app > **Me** > **About Mammotion** > **Privacy Agreement**.

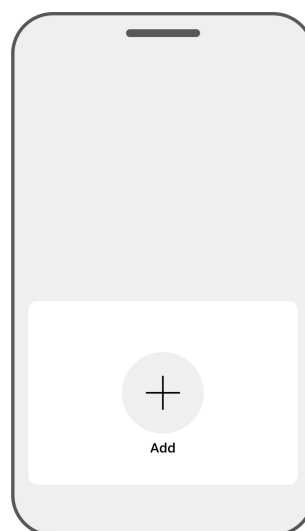
If you want to log in with a third-party account, tap  or  on the login page to continue. Mammotion app now supports logging in with Google and Apple accounts.

4.2 Connect to Mammotion Account

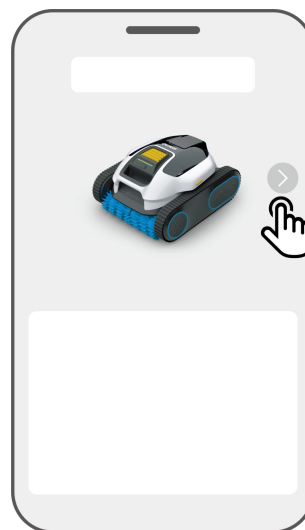
Long press the power button to turn on the robotic pool cleaner.



Tap **Add** to connect your robot to your account.



If you already bind another Mammotion product, switch to the last page and tap **Add** to connect a new one.



NOTE



You can only bind the robot to your phone when it is out of water. The connection will automatically disconnect when the robot enters water.

4.3 Update Firmware

For optimal experience, ensure your devices are updated to the latest firmware version.

➤ To update the firmware

1. Go to **Settings** > **Device information** > **Robot version** to update the firmware.
2. Ensure the robot is connected to a stable network.

During the update, please do not exit the app, perform other operations, turn off the robot, disconnect the Bluetooth, or place the robot into water.

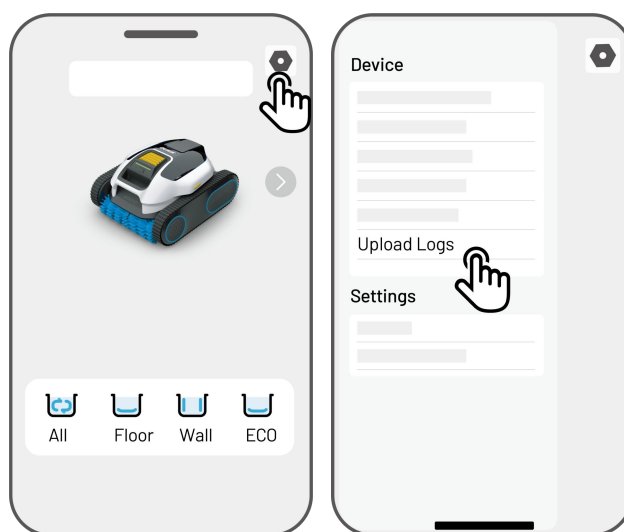


4.4 Upload Logs

➤ To upload logs

1. Go to **Settings** > **Upload Logs** to upload the logs.
2. Ensure the robot is connected to a stable network.
3. Follow the on-screen instructions to complete the process.

During the upload, please do not exit the app, perform other operations, turn off the robot, disconnect Bluetooth, or place the robot in water.



4.5 Beta Features

The Beta Features section provides early access to experimental functions and smart technologies under development.

- **Turbo Clean**

It is ideal for pools with heavy debris or those that haven't been cleaned in a while. It boosts spray and suction performance for a deeper clean, but also increases battery usage. This mode will automatically turn off after a restart.

- **Platform Clean**

Activate this feature for enhanced cleaning of platforms and walls in your pool. The robot will automatically climb these surfaces upon encounter. This feature deactivates when the robot turns off, so you'll need to manually reactivate it each time.

5 Inspection and Maintenance



WARNING

Ensure the robot is fully turned off before performing any inspection or maintenance.

5.1 Cleaning

- After each use, inspect and clear any debris, such as tangled hair or trapped sand, from the water outlet, caterpillar treads, and roller brush.
- Rinse the robot and filter basket thoroughly after each use.

5.2 Routine Inspection

- **Check the Water Outlet**

Inspect the water outlet for any foreign objects. Ensure the robot is turned off before the inspection. Remove any obstructions if found.

- **Check the Charging Port**

Examine the charging port for any signs of damage. If damage is detected, please contact our after-sales support for assistance.

- **Check the Caterpillar Tread**

Ensure the caterpillar treads are securely in place. If any caterpillar tread is loose, reattach it to its proper position on the track.

- **Check the Roller Brush**

Check for any wear on the roller brush. If wear is found, replace it with a new roller brush. You can purchase replacement parts from Mammotion official stores and follow the provided instructions for installation.

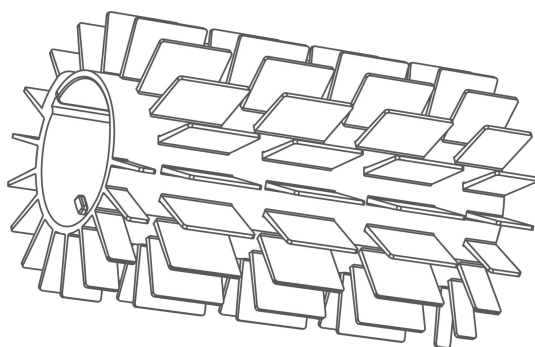
5.3 Storage

- Please thoroughly clean the robot and filter basket, then allow them to dry completely.
- Please apply an anti-rust agent to the metal contacts of the charging port and charger connector.
- Please store the robot in a well-ventilated, dry indoor space, away from direct sunlight, rain, and frost.
- Please ensure the robot is turned off during storage.
- Please make sure the robot is fully drained of water and completely dry before storing.
- Please fully charge the robot before storing it, and recharge it every 3 months to maintain battery health.

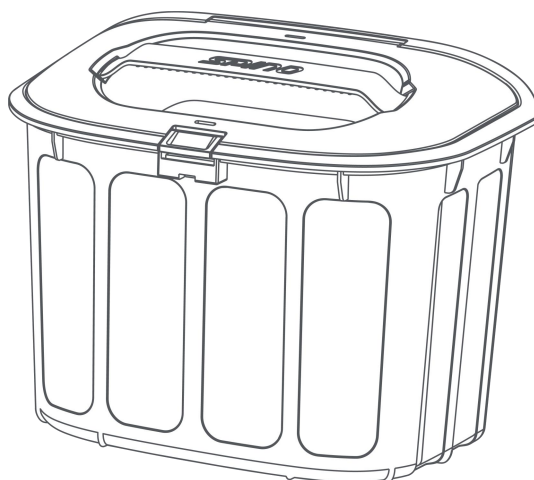
5.4 Replaceable Accessories

To ensure your robot operates smoothly and effectively, regularly inspect the following components and replace them if necessary:

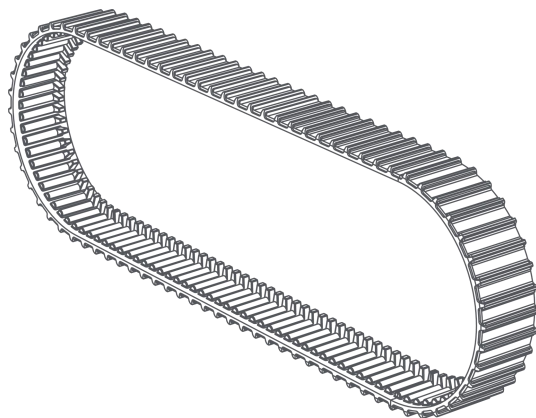
- Roller Brush



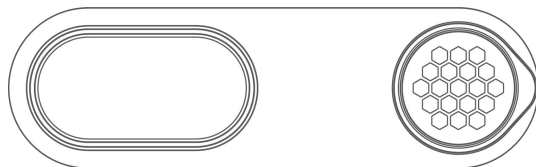
- Filter Basket



- Caterpillar Tread



- Side Cover



6 Product Specifications

6.1 Technical Specifications

Model Name	SPINO E1						
Working Voltage	Robotic Pool Cleaner: 21.6 V						
	Battery Charger: 100-240 V~, 50/60 Hz						
Battery Charger Input	100-240 V~, 50/60 Hz, 2.0 A Max.						
Battery Charger Output	27 V \Rightarrow 3 A, 81 W						
Battery Charger Model	TS-A081-2703003						
Battery Capacity	21.6 Vdc, 6.0 Ah, 129.6 Wh						
Charging Temperature	10°C-40°C (50°F-104°F)						
Charging Time	3 hours						
Working Time	Up to 210 min						
Working Water Depth	Max. 3 m (9.84 ft.)						
Cleaning Path	Smart Arc						
Wall Climbing	45°-110°						
Filter Basket	2.8 L						
Filter Layer	180 μ m Fine Filter Basket						
App Control	Mammotion App						
Automatic Surface Parking	YES						
Quick Water Release	YES						
OTA Upgrade	YES						
Dimensions (L*W*H)	444 x 412 x 243 mm (17.5 x 16.2 x 9.6 inches)						
Robot Net Weight	9.3 kg (21 lbs.)						
Waterproof	IPX8 & Battery Double Layer Waterproof						
Applicable Pool Conditions							
Pool Surfaces	Concrete	Fiberglass	Vinyl	Tile	Marble	Pebble Tec	
PH	6.5-8.3						
Temperature	5°C-40°C (41°F-104°F)						

NaCl	Max. 5000 ppm
Chlorine	Max. 3 ppm
Operating Frequency	
Bluetooth	2400-2483.5MHz
Wi-Fi	2400-2483.5MHz
Maximum Transmitter Power	
Bluetooth	<20dBm
Wi-Fi	<20dBm

7 Warranty

Shenzhen Mammotion Innovation Co., Ltd warrants that this product will be free from material and workmanship defects under normal use in accordance with the product materials published by Mammotion during the warranty period. The published product materials include but not limited to user manual, quick start guide, maintenance, specifications, disclaimer, in-app notifications, etc. The warranty period varies among different products and parts. Check the table below:

Component	Warranty				
	EU	US	UK	AU	CA
Motor Module	2 years	2 years	2 years	2 years	2 years
Top Cover	2 years	2 years	2 years	2 years	2 years
Chassis	2 years	2 years	2 years	2 years	2 years
Caterpillar Tread Drive System	2 years	2 years	2 years	2 years	2 years
Roller Shaft	2 years	2 years	2 years	2 years	2 years
Wearing Parts					
Left/Right Side Cover	3 months	3 months	3 months	3 months	3 months
Hook	3 months	3 months	3 months	3 months	3 months
Filter Basket	3 months	3 months	3 months	3 months	3 months
Caterpillar Tread	3 months	3 months	3 months	3 months	3 months
Roller Brush	3 months	3 months	3 months	3 months	3 months
Charger	3 months	3 months	3 months	3 months	3 months

If the product does not function as warranted during the warranty period, please contact Mammotion customer service for instructions.

- For products purchased from a local dealer, kindly reach out to the dealer first.

- Users must present a valid proof of purchase, receipt, or order number (for Mammotion Direct Sales). The serial number of the product is crucial for initiating warranty service.
- Mammotion will make every effort to address concerns through phone calls, email, or online chat.
- In some cases, Mammotion may advise you to download or install specific software updates.
- If issues persist, you may need to send the product to Mammotion for further assessment or to a local Mammotion-appointed service center.
- The warranty period for the product commences from the original date of purchase indicated on the sales receipt or invoice.
- For pre-ordered products, the warranty period begins from the shipping date from the local warehouse.
- Mammotion will need users to arrange the shipment by themselves if users would like to send the products to local service center or Mammotion factory for further diagnosis. Mammotion will repair or replace and send back to users at no cost if the problem falls under the warranty. If not, Mammotion or designated service center may charge a fee accordingly.

Here puts some examples of faults that warranty will not cover:

- Failure to follow the instructions outlined in the user manual.
- If the product arrives damaged during shipment and is not rejected upon delivery, or if no official documentation confirming the damages is provided by the shipping company. Inability to provide evidence of damage occurring during transit.
- Product malfunction due to accidents, misuse, abuse, natural disasters like floods, fires, earthquakes, exposure to food or liquid spills, incorrect electrical charging, or other external factors.
- Damage resulting from using the product in ways not permitted or intended as specified by Mammotion.
- Modification of the product or its components that significantly alters functionality or capabilities without obtaining written permission from Mammotion.
- Loss, damage, or unauthorized access to your data.
- Signs of tampering or alteration on product labels, serial numbers, etc.
- Failure to provide a valid proof of purchase from Mammotion, such as a receipt or invoice, or if there are suspicions of forgery or tampering with the documentation.

8 Compliance

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.

Caution: 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:

- 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.

ISED Compliance Statements

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two

conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation,

Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

(1) L'appareil ne doit pas produire de brouillage;

(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé.

RF Exposure Compliance

This equipment complies with FCC/IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé.

Cet émetteur ne doit pas être colocalisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

9 Simplified EU Declaration of Conformity

Hereby, Shenzhen Mammotion Innovation Co., Limited declares that the radio equipment type [Model:E1] is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<https://mammotion.com/pages/eu-declaration-of-conformity>.

10 Contact Us

If you experience any issues with your Mammotion robot's operation, maintenance, safety, or encounter any faults, please contact us.

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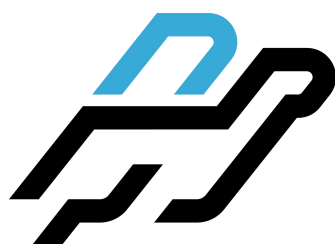
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