

PALOTR S1

PALOTR S1 Robot Vacuum Cleaner User Manual

Model: S1

1. INTRODUCTION

Thank you for choosing the PALOTR S1 Robot Vacuum Cleaner. This device is designed to provide efficient and convenient cleaning for your home, combining sweeping, vacuuming, and mopping functionalities. This manual provides essential information for the safe operation, maintenance, and troubleshooting of your robot vacuum cleaner. Please read it thoroughly before use and retain it for future reference.

2. SAFETY INSTRUCTIONS

To reduce the risk of injury or damage, read these safety instructions carefully before setting up, using, and maintaining your robot.

- The robot is for indoor use only. Do not use it outdoors or in commercial/industrial environments.
- Do not use the robot in areas with open flames or fragile objects.
- Keep the robot away from children and pets. Supervise children when the robot is operating.
- Ensure the power adapter voltage is compatible with your local power supply.
- Do not handle the power adapter or robot with wet hands.
- Turn off the robot and unplug the power adapter before cleaning or maintenance.
- Do not use the robot to pick up large debris, liquids, burning or smoking materials.
- Regularly check the brushes and wheels for tangled hair or debris.
- If the power cord is damaged, it must be replaced by the manufacturer or a qualified service agent to avoid hazards.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- Host machine (Robot Vacuum Cleaner) x 1
- Power Adapter x 1
- Recharging Station x 1
- Side Brush x 2
- Dust box with HEPA filter x 1

- Mop x 1
- Instruction Manual x 1
- Remote Control x 1

4. PRODUCT OVERVIEW

Familiarize yourself with the main components and features of your PALOTR S1 robot vacuum cleaner.



Figure 4.1: Top view of the PALOTR S1 Robot Vacuum Cleaner, showing the power button and home button.

4.1 Key Features

- **Slim Design:** With a height of 2.87 inches, the S1 can easily clean under furniture like cabinets, sofas, and beds.
- **3-in-1 Cleaning:** Sweeps, vacuums, and mops simultaneously for comprehensive cleaning.
- **Anti-Drop Sensors:** Cliff sensors identify steps and prevent the robot from falling.
- **Anti-Collision Sensors:** Obstacle avoidance sensors detect and navigate around furniture and other objects.
- **Obstacle Climbing:** Capable of climbing over small obstacles and carpets up to 20 degrees.
- **App Control & Mapping:** Manage cleaning plans, view clean maps, and control the robot via a dedicated mobile application.

- **Voice Announcement:** Real-time control and status updates through voice announcements.
- **Remote Control:** Includes a remote control for convenient operation.



Figure 4.2: The slim profile of the PALOTR S1, measuring 2.87 inches in height, allows it to clean under low-lying furniture.

Multiple Scenes

Anti-Drop

Cliff sensor, it can identify steps and avoid falling.



Anti-Collision

Obstacle avoidance sensor, capable of identifying obstacles anti-collision.

Figure 4.3: Illustration of the robot's anti-drop sensors preventing falls from stairs and anti-collision sensors navigating around obstacles.



Obstacle Climbing

Climbing hills and overcoming obstacles, there are no barriers or carpet obstacles at home, making it easy to cross.



Figure 4.4: The robot demonstrating its ability to climb over obstacles, such as carpet edges, up to a 20-degree incline.

5. SETUP

5.1 Charging Station Placement

1. Place the recharging station against a wall in an open, uncluttered area.
2. Ensure there is at least 0.5 meters (1.6 feet) of clear space on either side of the charging station and 1.5 meters (4.9 feet) in front of it.
3. Plug the power adapter into the charging station and then into a wall outlet. Ensure the indicator light on the charging station illuminates.

5.2 Initial Charging

1. Place the robot onto the charging station, ensuring the charging contacts on the robot align with those on the station.
2. The robot will begin charging automatically. A full charge takes approximately 4-5 hours.
3. For optimal battery life, fully charge the robot before its first use.

5.3 App Connection (Optional)

To utilize advanced features like mapping and scheduling, download the PALOTR app from your smartphone's app store. Follow the in-app instructions to connect your robot to your home Wi-Fi network.

6. OPERATING INSTRUCTIONS

6.1 Starting/Stopping Cleaning

- **Start Cleaning:** Press the power button on the robot or the 'Clean' button on the remote control/app. The robot will begin cleaning in its default mode.
- **Pause Cleaning:** Press the power button on the robot or the 'Pause' button on the remote control/app during operation.
- **Return to Charging Station:** Press the home button on the robot or the 'Home' button on the remote control/app. The robot will return to its charging station.

6.2 Using the Remote Control

The included remote control allows for direct command of the robot's basic functions, including starting/stopping, directing movement, and selecting cleaning modes.

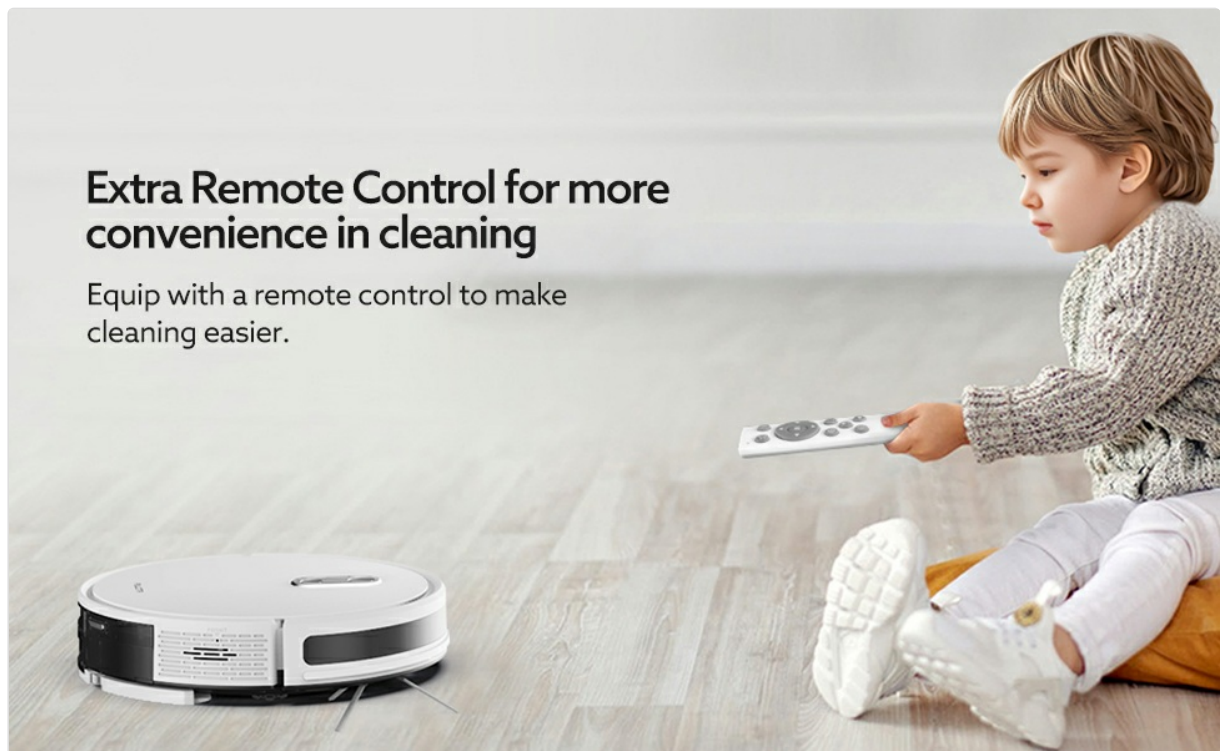


Figure 6.1: The remote control provides an additional method for convenient operation of the robot vacuum cleaner.

6.3 Using the Mobile Application

The PALOTR app offers enhanced control and monitoring capabilities:

- **Scheduling:** Set specific cleaning times for automated operation.
- **Cleaning Modes:** Select from various cleaning modes.
- **Clean Map Reports:** View detailed reports of cleaned areas and cleaning duration.
- **Dynamic Planning:** Adjust cleaning plans and target specific areas.



Know where it's been, see what it's doing

Clean Map* Reports show where your robot has cleaned and display details, such as coverage and duration for complete jobs.



Figure 6.2: The mobile application displays a 'Clean Map Report' showing the areas the robot has covered during a cleaning cycle.

6.4 Voice Control

The PALOTR S1 supports voice control through compatible smart home assistants like Alexa and Google Assistant. Once connected via the app, you can issue commands such as "Alexa, start cleaning" to initiate cleaning cycles.

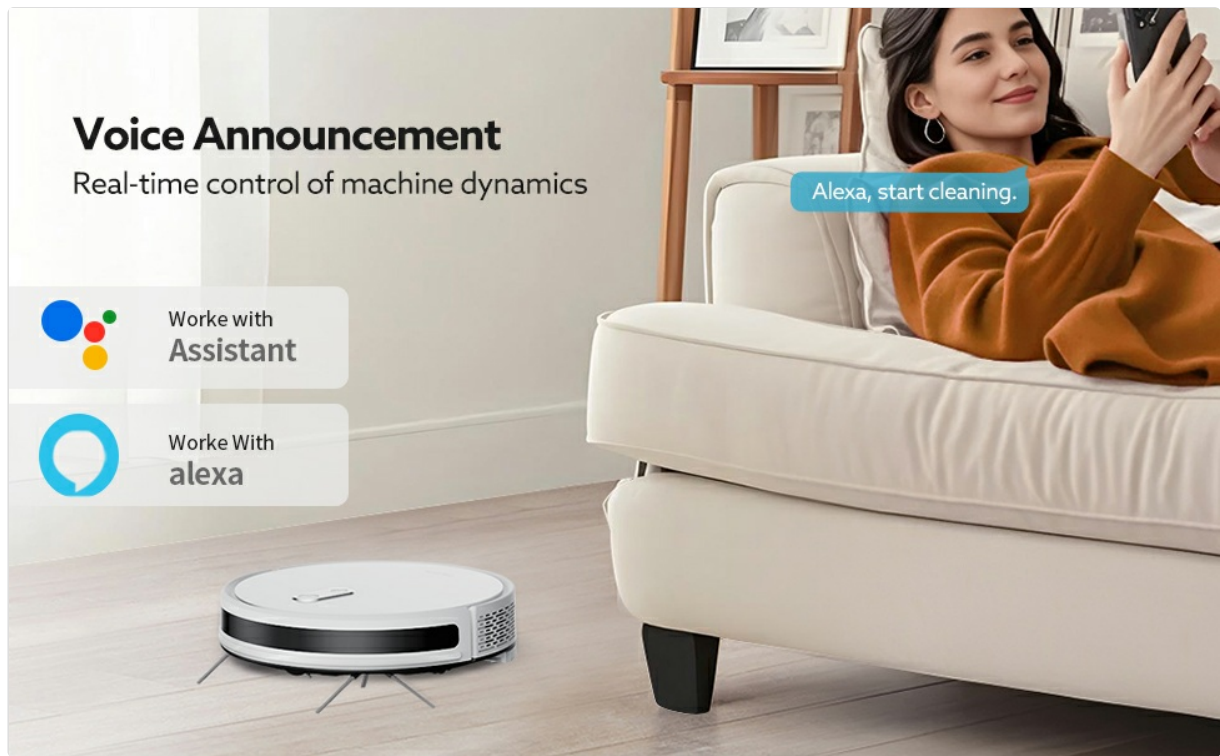


Figure 6.3: The robot supports voice commands through Google Assistant and Alexa for convenient control.

7. CLEANING MODES

The PALOTR S1 offers multiple cleaning modes to suit different cleaning needs:

- **Zig-zag Cleaning:** The robot cleans in an efficient, back-and-forth pattern, covering the entire area systematically.
- **Spot Cleaning:** Concentrates cleaning on a specific small area, ideal for spills or concentrated dirt.
- **Edge Cleaning:** The robot follows along walls and furniture edges to ensure thorough cleaning of corners and perimeters.
- **Random Cleaning:** The robot navigates randomly, changing direction upon encountering obstacles.



Figure 7.1: Visual representation of the four distinct cleaning modes: Zig-zag, Spot, Edge, and Random cleaning.

8. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your robot vacuum cleaner.

8.1 Emptying the Dustbin

1. Press the dustbin release button and pull out the dustbin.
2. Open the dustbin cover and empty its contents into a trash bin.
3. Clean the HEPA filter and primary filter with the cleaning brush or rinse with water (ensure completely dry before reinstallation).
4. Reinstall the filters and dustbin.

8.2 Cleaning the Side Brushes

Periodically remove any hair or debris tangled around the side brushes. If brushes are worn, replace them with new ones.

8.3 Cleaning the Sensors

Wipe the anti-drop sensors and anti-collision sensors on the robot's underside and front bumper with a clean, dry cloth to ensure proper functionality.

8.4 Cleaning the Mop Pad and Water Tank

1. Remove the mop pad from the water tank module and wash it thoroughly. Allow it to air dry completely.
2. Empty any remaining water from the water tank. Rinse the tank and allow it to air dry.
3. Ensure the water tank is properly installed before mopping.

Efficient Composite Cleaning Module

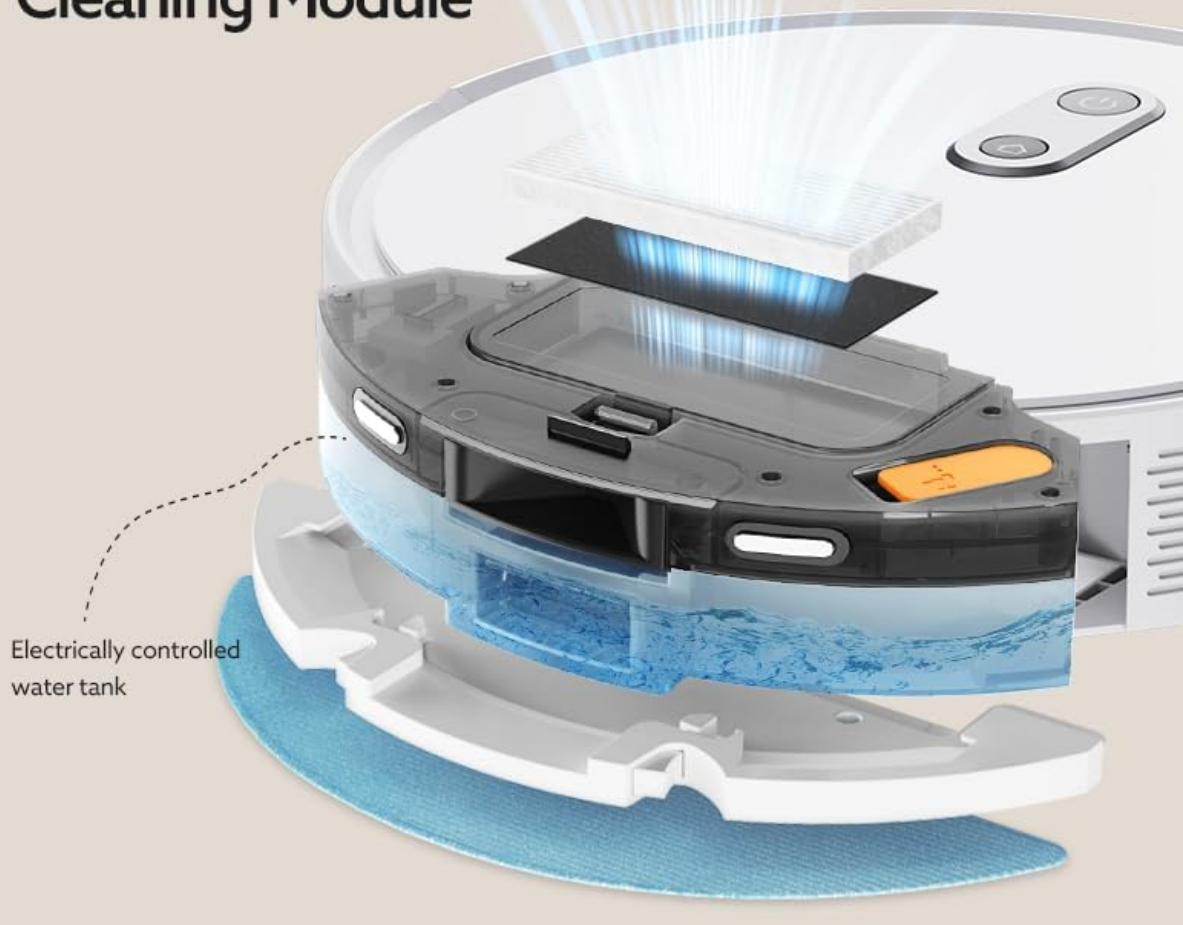


Figure 8.1: Exploded view of the composite cleaning module, highlighting the electrically controlled water tank and mop pad for maintenance.

9. TROUBLESHOOTING

If your robot encounters an issue, refer to the following table for common problems and solutions.

Problem	Possible Cause	Solution
Robot does not turn on	Low battery; Power switch off	Charge the robot; Ensure power switch is on
Robot cannot charge	Charging contacts dirty; Charging station unplugged	Clean charging contacts; Plug in charging station
Suction power is weak	Dustbin full; Filter clogged; Main brush tangled	Empty dustbin; Clean/replace filter; Clean main brush
Robot gets stuck frequently	Obstacles on floor; Sensors dirty	Clear floor of cables/small objects; Clean sensors

Problem	Possible Cause	Solution
Mop function not working	Water tank empty; Mop pad not attached	Fill water tank; Attach mop pad correctly

10. SPECIFICATIONS

Detailed technical specifications for the PALOTR S1 Robot Vacuum Cleaner:

Feature	Specification
Model No.	S1
Navigation	Gyroscope
Motor	Brushless Motor
Battery	7.4V / 2600mAh
Suction Power	2000Pa (up to 4000Pa in some modes)
Working Time	120-150 minutes
Charging Time	4-5 hours
Rated Power	20W
Dust Box Capacity	230 ml
Water Tank Capacity	240 ml
Product Dimensions	12.6"L x 12.6"W x 2.87"H (320mm x 320mm x 73mm)
Item Weight	9.7 pounds
Filter Type	HEPA

BASIC PARAMETER



Model No : S1	Battery : 7.4V	Rated Power : 20W
Suction : 4000Pa	Battery Capacity : 2600mAh	Recharge Time : 4-5HOURS
Work Time : 120~150min	Water Tank : 240ML	Dust Box : 230ML

Figure 10.1: Visual summary of key specifications for the PALOTR S1 robot vacuum cleaner.

11. WARRANTY AND SUPPORT

PALOTR products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the contact information provided on your product packaging or visit the official PALOTR website. Please have your model number (S1) and purchase details ready when contacting support.