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## Redroad R11

# Redroad Robot Vacuum R11 User Manual

Model: R11

## 1. INTRODUCTION

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Welcome to the Redroad Robot Vacuum R11 User Manual. This guide provides essential information for setting up, operating, and maintaining your new robot vacuum and mop. Please read this manual thoroughly before using the device to ensure safe and efficient operation.

## 2. SAFETY INFORMATION

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**WARNING: Read all safety instructions before use to prevent fire, electric shock, or injury.**

- Keep the device away from water and moisture.
- Do not allow children or persons with reduced physical, sensory, or mental capabilities to operate the device without supervision.
- Ensure the charging station is placed on a flat, stable surface, away from heat sources.
- Do not use the device to pick up large or sharp objects, liquids, or burning materials.
- Regularly check and clean the brushes and filters to maintain optimal performance.

## 3. PACKAGE CONTENTS

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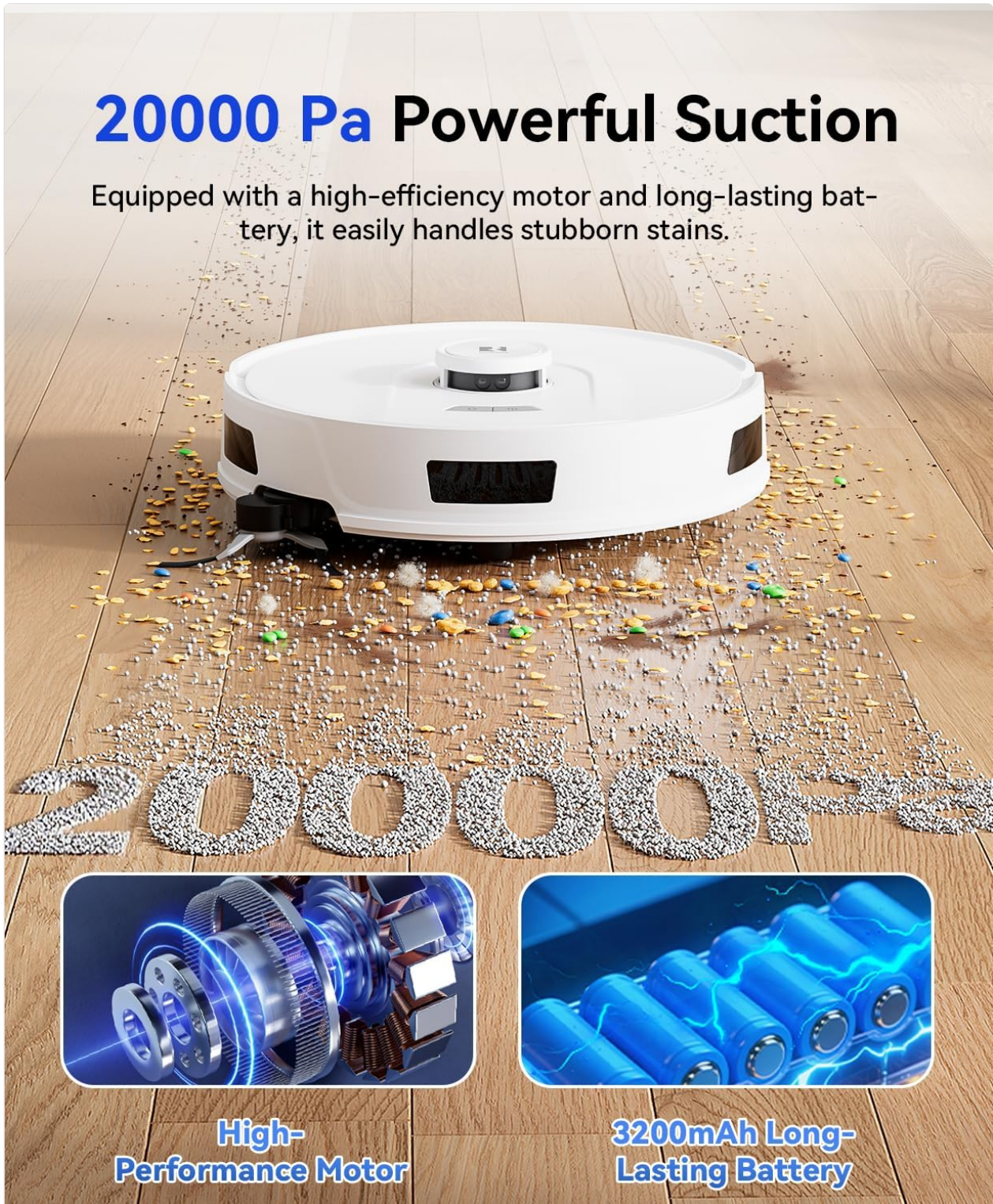
Verify that all items are present in your package:

- Redroad Robot Vacuum R11 Main Unit
- Self-Emptying Station (4L capacity)
- 2-in-1 Dustbin & Water Tank
- Mop Cloths (2 included)
- High-Efficiency Filter (2 included)
- Anti-Tangle Side Brush (2 included)

- Cleaning Brush
- User Manual

# 20000 Pa Powerful Suction

Equipped with a high-efficiency motor and long-lasting battery, it easily handles stubborn stains.



**High-Performance Motor**

**3200mAh Long-Lasting Battery**

Figure 3.1: All components included in the Redroad Robot Vacuum R11 package.

## 4. SETUP

### 4.1. Charging Station Placement

Place the self-emptying station against a wall in an open area, ensuring there are no obstacles within 1.5 meters (5 feet) in front and 0.5 meters (1.6 feet) on either side. Plug the station into a power outlet.

# 90 Days of Automatic Dust Collection

4L upgraded high-capacity dust bag, no need to take out the trash for 13 weeks



Figure 4.1: The Redroad Robot Vacuum R11 docked at its self-emptying station.

## 4.2. Initial Charging

Place the robot vacuum onto the charging station. The indicator lights on the robot will illuminate, indicating it is charging. Allow the robot to fully charge before its first use (approximately 3 hours).

## 4.3. Installing Side Brushes and Mop Pad

1. Turn the robot vacuum upside down.
2. Align the side brushes with the designated slots on the bottom of the robot and press firmly until they click into place.
3. Attach a mop cloth to the mop pad holder using the Velcro strips.
4. Slide the mop pad holder into the slot at the rear of the robot until it locks.

## 4.4. Filling the Water Tank

1. Remove the 2-in-1 dustbin and water tank from the robot by pressing the release button.
2. Open the water tank cap (blue piece) and fill with clean water. Close the cap securely.
3. Reinsert the dustbin and water tank into the robot until it clicks into place.

## 4.5. App Connection

Download the Redroad app from your smartphone's app store. Follow the in-app instructions to connect your robot vacuum to your home Wi-Fi network (supports dual-band 5GHz & 2.4GHz). This enables smart control features.

# 5. OPERATING INSTRUCTIONS

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## 5.1. Power On/Off

Press and hold the power button on the robot or use the app to turn the device on or off.

## 5.2. Cleaning Modes

The Redroad R11 offers three cleaning modes: vacuuming, sweeping, and mopping. You can select these modes via the mobile app.

- **Vacuum Only:** For dry debris collection. The large-capacity dustbin efficiently collects more debris.
- **Mop Only:** For wet cleaning. The next-generation air valve precisely controls three water flow levels, effortlessly removing stubborn stains while preventing leaks or over-wetting floors.
- **Vacuum & Mop:** Combines both functions for comprehensive cleaning.

# 360° Smart LiDAR Navigation

Precise mapping for optimal cleaning routes



Figure 5.1: The Redroad R11 supports Vacuum Only, Mop Only, or combined Vacuum & Mop operations.

## 5.3. Smart Navigation and Mapping

The robot uses 360° Smart LiDAR Navigation to create accurate room maps and smart sweeping routes, avoiding repetition and omissions. It stores up to 4 maps, catering to multi-floor homes.

# One for All - Vacuum, Mop or Do Both

Carpet Cleaning Tip: Remove the mop module and enjoy a professional vacuuming experience.



Figure 5.2: The R11 utilizes LiDAR for precise navigation and multi-level mapping.

## 5.4. Suction Power Adjustment

The R11 robot vacuum boasts a powerful suction of over 20,000 Pa. You can adjust the suction levels via the app to suit different cleaning needs and floor types (e.g., carpets, hardwood, tiles).



Figure 5.3: The R11's powerful 20,000 Pa suction for deep cleaning.

## 5.5. Edge Cleaning

The mechanical arm-extended side brush flexibly extends and retracts, providing over 30% more horizontal coverage than standard side brushes. This allows for effortless sweeping of dust from wall edges and cabinet corners.

# Professional Extended Mechanical Edge Brushes

Solve the problem of cleaning edges thoroughly!



Figure 5.4: Professional extended mechanical edge brushes for thorough corner cleaning.

## 5.6. App & Voice Control

Control your robot vacuum via the smart app to set cleaning schedules, switch cleaning modes, adjust suction levels, and more. The device also supports voice control through Alexa and Google Home (supports dual-band WiFi: 5GHz & 2.4GHz).

# APP & Voice Control

Make cleaning easy, save your mind and energy



2.4GHz/5GHz  
Dual Band WiFi



Compatible  
Amazon Alexa



Compatible  
Google Home

Hi Alexa, Start Cleaning

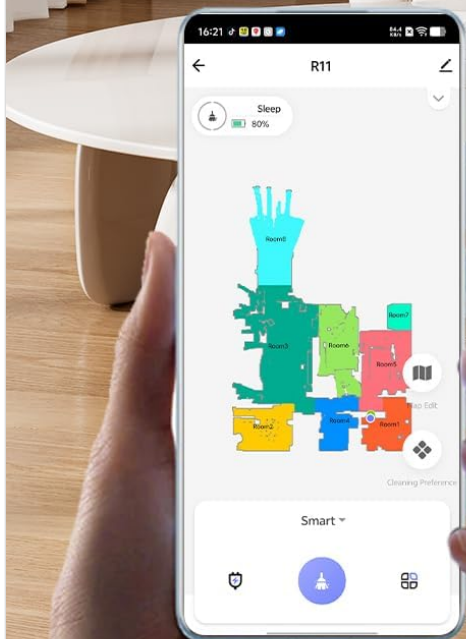


Figure 5.5: Control the R11 using the smart app or voice commands.

## 5.7. No-Go Zones & Virtual Walls

Set no-go zones and virtual walls through the app to prevent the machine from getting stuck in narrow spaces or entering specific areas, ensuring smarter and safer cleaning management.

# No-Go Zone & Virtual Wall

Smarter, safer cleaning management

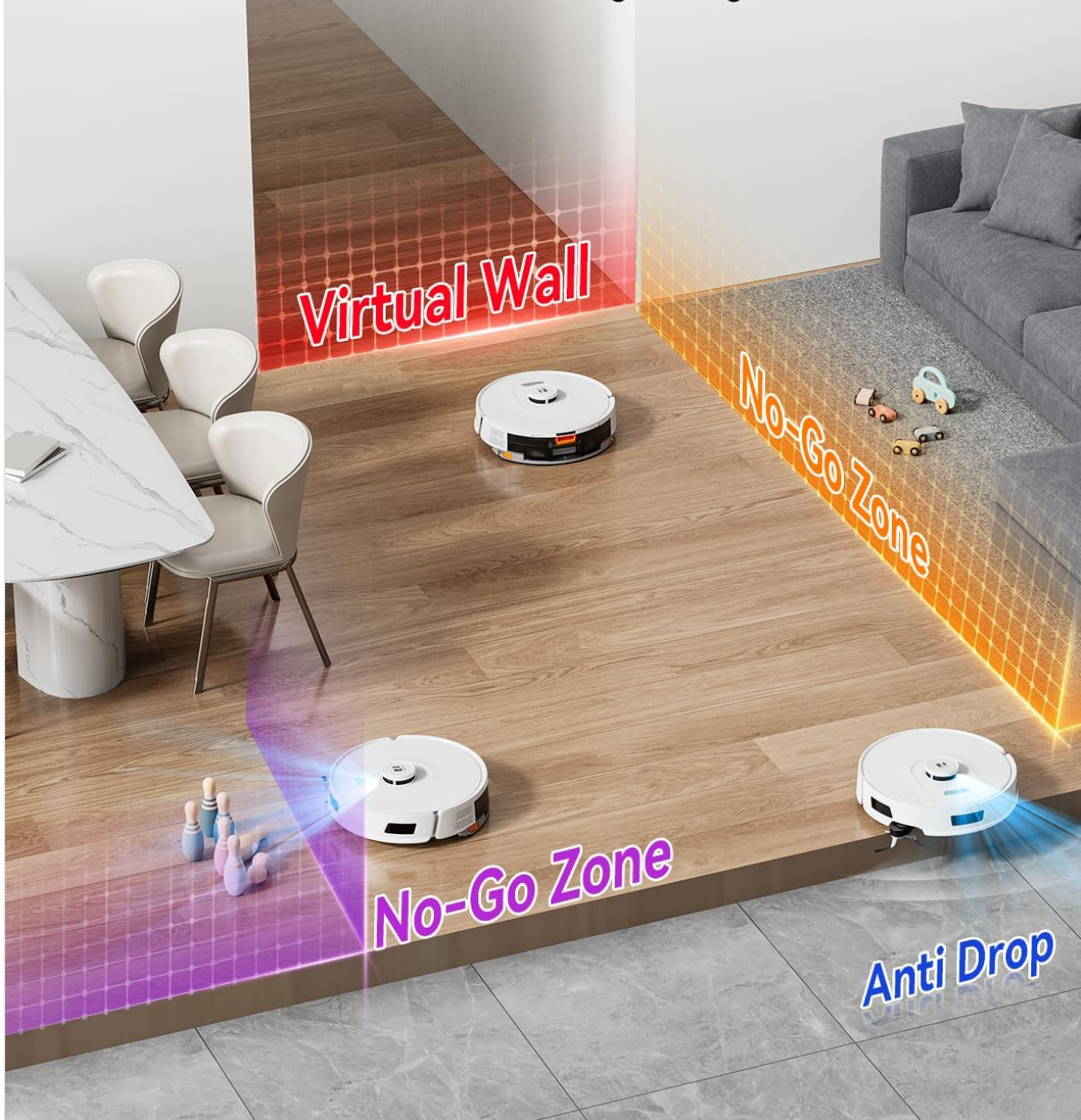


Figure 5.6: Define no-go zones and virtual walls for customized cleaning.

## 5.8. Automatic Dust Collection

Enjoy up to 90 days of hands-free cleaning with the 4L extra-large dust bag in the self-emptying station. The powerful suction vacuum base station efficiently empties the collected dirt and debris into the dust bag, ensuring uninterrupted cleaning sessions.



Figure 5.7: The 90-day automatic dust collection feature.

## 5.9. Official Product Video

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Video 5.1: An overview of the Redroad Robot Vacuum and Mop R11 features and operation.

## 6. MAINTENANCE

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### 6.1. Cleaning the Dustbin and Filter

The 2-in-1 dustbin and water tank should be emptied and cleaned regularly. The high-efficiency filter can be rinsed with water and allowed to air dry completely before reinstallation.

### 6.2. Cleaning Brushes

Periodically remove and clean the main brush and side brushes. The side brush features an anti-tangle design that minimizes hair entanglement, reducing maintenance hassle. Use the included cleaning brush to remove any tangled hair or debris.

### 6.3. Replacing Dust Bags

The self-emptying station uses 4L dust bags. The package includes two dust bags, providing approximately 180 days of dust collection. Replacement dust bags are expected to be available for purchase soon.



Figure 6.1: Replacing the dust bag in the self-emptying station.

### 6.4. Cleaning Sensors

Wipe all sensors (LiDAR, anti-drop, collision) with a soft, dry cloth to ensure proper functionality.

## 7. TROUBLESHOOTING

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If you encounter any issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Robot does not power on	Low battery; not on charging station	Place robot on charging station and allow to charge fully.
Robot gets stuck frequently	Obstacles; no-go zones not set	Clear obstacles. Use the app to set no-go zones or virtual walls.
Poor cleaning performance	Full dustbin; clogged filter/brushes	Empty dustbin. Clean or replace filter and brushes.
Mop not dispensing water	Empty water tank; clogged water nozzle	Refill water tank. Clean water nozzles.

For further assistance, please contact Redroad customer support.

## 8. SPECIFICATIONS

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Feature	Detail
Brand	Redroad
Model Name	Robot Vacuum R11
Suction Power	20,000 Pa
Battery Capacity	3200 mAh
Battery Life	Up to 3 Hours
Navigation System	360° Smart LiDAR
Dust Bag Capacity	4 Liters (Self-Emptying Station)
Connectivity	5GHz & 2.4GHz Dual-Band WiFi
Voice Control	Alexa/Google Home Compatible
Filter Type	HEPA
Surface Recommendation	Carpet, Hardwood, Tile
Item Weight	16.04 pounds
Package Dimensions	15.51 x 15.04 x 12.95 inches

## 9. WARRANTY AND SUPPORT

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Redroad places high importance on product quality and customer satisfaction. The Redroad Robot Vacuum R11 comes with a 1-year warranty for peace of mind.

Should you encounter any operational issues or malfunctions during use, please contact our official after-sales team anytime. We guarantee an effective solution within 24 hours.

Thank you for choosing Redroad robotic vacuums.