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› Redkey R10 Robot Vacuum and Mop Combo Instruction Manual

Redkey R10

Redkey R10 Robot Vacuum and Mop Combo Instruction Manual

Model: R10

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation, maintenance, and troubleshooting of your Redkey R10 Robot Vacuum and Mop Combo. Please read this manual thoroughly before using the product and retain it for future reference.

The Redkey R10 is designed to provide automated cleaning for various floor types, combining powerful vacuuming with effective mopping capabilities. Its advanced features include self-emptying, precise navigation, and smart app control.

2. PRODUCT OVERVIEW

2.1 Key Features

- **90-Day Self-Emptying Convenience:** The robot vacuum automatically empties debris into a 4L dust bag after each cleaning cycle, offering up to 3 months of hands-free operation.
- **Omnidirectional Floating Roller Brush:** Adapts to ground conditions for enhanced dust collection and stronger static air pressure.
- **4000Pa Pro-Level Suction:** Features 4-stage power adjustment with auto-boost on carpets.
- **Integrated Mopping Function:** A 350ml water tank cleans over 2000 sqft, with triple water flow control to prevent over-wetting.
- **Whole-Home Customization:** Allows personalized cleaning routines, including room-specific suction levels, number of cleanings, and water volume.
- **LDS Precision Laser Mapping:** Accurately recognizes environments, builds maps quickly, and saves up to 5 floor plans. Supports no-go zones and virtual walls.
- **Smart App & Voice Control:** Compatible with Alexa and Google Assistant for convenient operation.

2.2 Package Contents

Verify that all components are present in the package:

- Redkey R10 Robot Vacuum
- Self-Empty Dock
- Dust Bag (pre-installed or spare)
- Mop Pad
- Charging Adapter
- Instruction Guide (this manual)
- Remote Control
- Battery (pre-installed)

2.3 Product Components

Familiarize yourself with the main parts of your Redkey R10 robot vacuum and self-empty dock.





Figure 1: Redkey R10 Robot Vacuum and Mop Combo. This image shows the robot vacuum unit on a hard floor, illustrating its vacuuming and mopping capabilities with water droplets and dust particles.



Long-lasting cleaning

The 3200 mAh battery ensures that the robot can run for up to 150 minutes, enough time to clean your entire home.

 **3200mAh**
Large Battery

 **4 Hours**
Quick Charge

 **150 Running**
Time (max.)


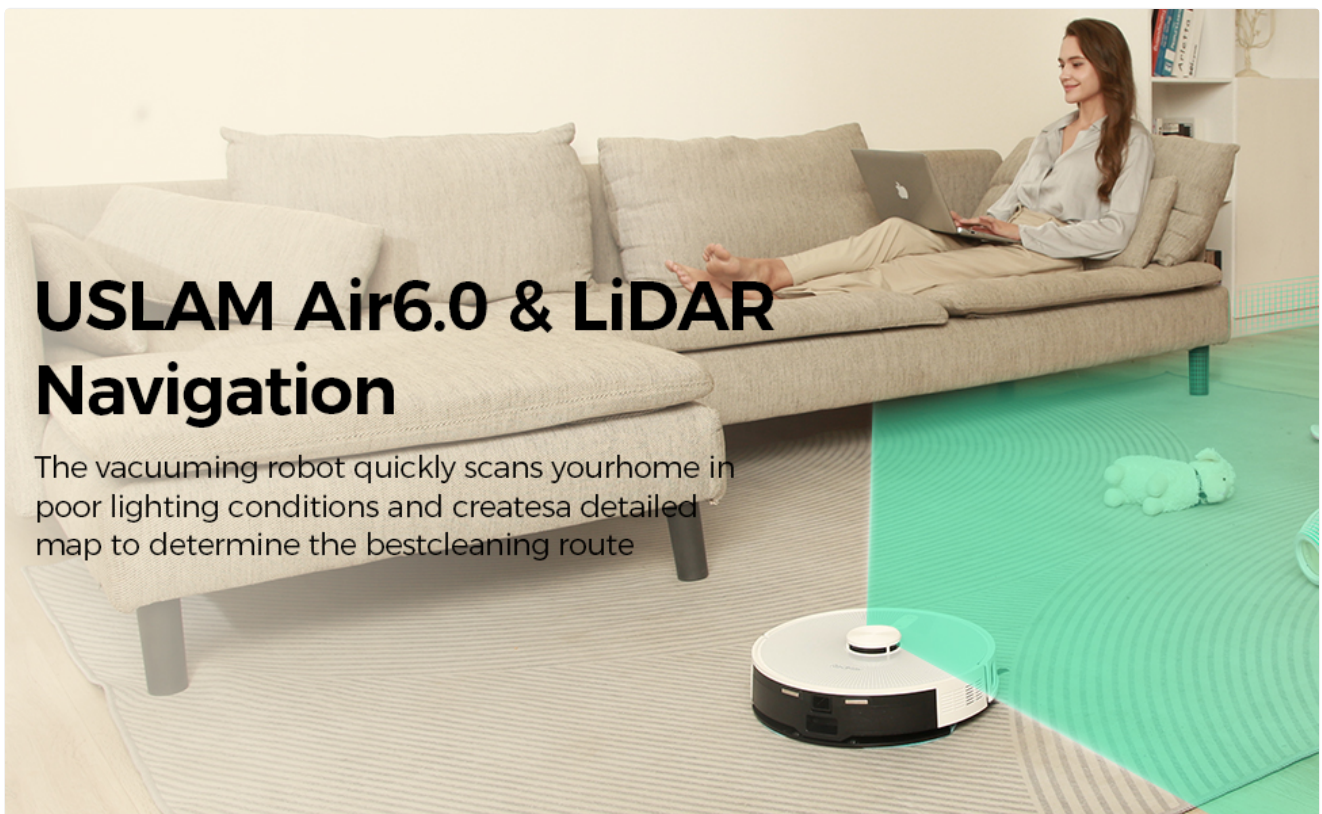
 **180 sq. ft.**
Cleaning Area(max.)

Figure 2: Redkey R10 Self-Empty Dock. This image highlights the self-emptying feature, showing the robot docked and debris being transferred into the 4L dust bag within the dock.



USLAM Air6.0 & LiDAR Navigation

The vacuuming robot quickly scans your home in poor lighting conditions and creates a detailed map to determine the best cleaning route

Figure 3: Redkey R10 with LDS Navigation. The image depicts the robot vacuum using its LiDAR sensor for precise mapping and navigation within a room.

3. SETUP

3.1 Unpacking and Placement

1. Carefully remove all components from the packaging.
2. Remove any protective films or packing materials from the robot and the self-empty dock.
3. Place the self-empty dock against a wall in an open area, ensuring there is at least 0.5 meters (1.6 feet) of clear space on both sides and 1.5 meters (4.9 feet) in front. Ensure it is near a power outlet.
4. Connect the charging adapter to the self-empty dock and plug it into a power outlet.

3.2 Initial Charging

Place the robot vacuum onto the self-empty dock. Ensure the charging contacts on the robot align with those on the dock. The robot will begin charging automatically. For first-time use, fully charge the robot before operation (approximately 4 hours).

3.3 App Installation and Pairing

1. Download the official Redkey app from your smartphone's app store (iOS or Android).
2. Open the app and create an account or log in.
3. Follow the in-app instructions to add your Redkey R10 device. This typically involves turning on the robot, connecting your phone to a 2.4GHz Wi-Fi network, and scanning a QR code on the robot or dock.
4. Once paired, the app will guide you through the initial mapping process.

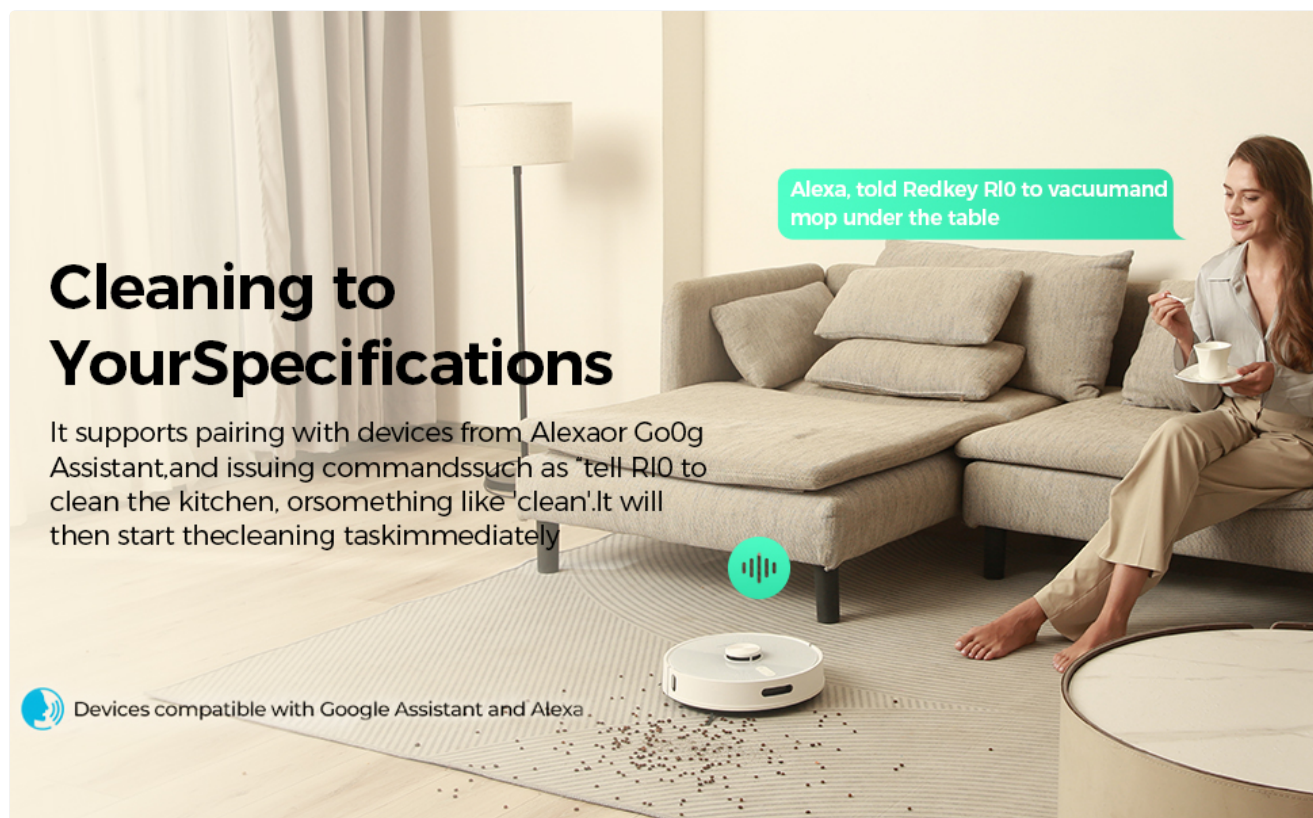


Figure 4: Smart App and Voice Control. This image illustrates a user interacting with the Redkey R10 via a smartphone app, showing features like setting cleaning schedules, cleaning specific rooms, and setting cleaning sequences.

4. OPERATING INSTRUCTIONS

4.1 Starting and Stopping Cleaning

- **Start Cleaning:** Press the power button on the robot, use the remote control, or initiate cleaning via the Redkey app.
- **Pause Cleaning:** Press the power button on the robot or the pause button in the app.

- **Return to Dock:** Press the home button on the robot, the remote control, or in the app. The robot will automatically return to the self-empty dock.

4.2 Cleaning Modes

The Redkey R10 offers various cleaning modes to suit different needs:

- **Vacuuming Modes (4 levels):**
 - Quiet: For light cleaning and minimal noise.
 - Standard: Default mode for everyday cleaning.
 - Strong: For deeper cleaning on carpets and heavily soiled areas.
 - Maximum: Highest suction power for stubborn dirt.
- **Mopping Modes (3 levels):** Adjust water flow for different floor types and cleaning intensity.
- **Vacuum & Mop Combo Mode:** Simultaneously vacuums and mops for comprehensive cleaning.

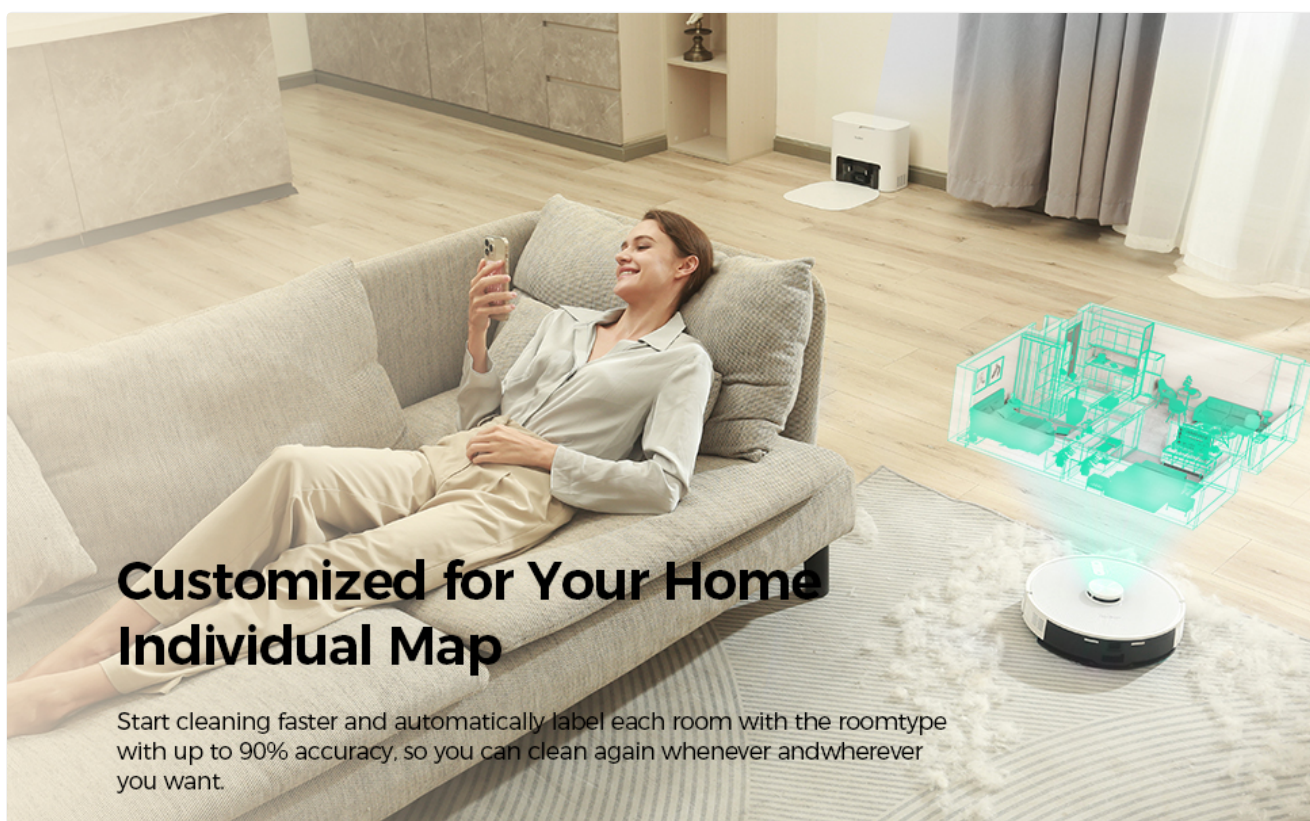


Figure 5: Redkey R10 Suction Power. This image demonstrates the robot vacuum's powerful suction, showing it effectively picking up various debris from a floor.

4.3 Smart Features (App Control)

- **Map Management:** View and edit saved floor plans (up to 5).
- **No-Go Zones & Virtual Walls:** Define areas the robot should avoid.
- **Zone Cleaning:** Select specific areas on the map for targeted cleaning.
- **Scheduled Cleaning:** Set daily or weekly cleaning schedules.
- **Room-Specific Settings:** Customize suction power and water volume for individual rooms.
- **Voice Control:** Integrate with Alexa or Google Assistant for hands-free commands (e.g., "Alexa, tell Redkey R10 to start cleaning").

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your Redkey R10. Always power off the robot before performing any maintenance.

5.1 Self-Empty Dock Dust Bag Replacement

The 4L dust bag in the self-empty dock typically lasts up to 90 days, depending on usage and debris volume. Replace the dust bag when the indicator light on the dock or the app notifies you.

1. Open the lid of the self-empty dock.
2. Carefully remove the full dust bag, ensuring the opening is sealed to prevent dust leakage.
3. Insert a new dust bag into the slot, ensuring it is properly seated.
4. Close the dock lid.

5.2 Roller Brush and Side Brush Cleaning

- **Roller Brush:** Turn the robot over. Remove the brush cover and lift out the roller brush. Use the cleaning tool (if provided) to cut and remove tangled hair or debris. Reinstall the brush.
- **Side Brushes:** Check side brushes for tangled hair or damage. Remove and clean them as needed. Replace if worn.

5.3 Dustbin and Filter Cleaning (Robot Unit)

Even with the self-empty dock, it is recommended to periodically check and clean the robot's internal dustbin and filter.

1. Open the robot's top cover and remove the dustbin.
2. Empty the dustbin contents.
3. Remove the filter from the dustbin. Tap it gently to remove dust. Do not wash the HEPA filter with water unless specified.
4. Rinse the dustbin with water if necessary, ensuring it is completely dry before reinstallation.
5. Reinstall the filter and dustbin into the robot.

5.4 Water Tank and Mop Pad Cleaning

- **Mop Pad:** Remove the mop pad after each use and wash it thoroughly. Air dry completely before reattaching.
- **Water Tank:** Empty any remaining water from the tank after each mopping session. Rinse the tank and allow it to air dry to prevent mold or odors.

5.5 Sensor Cleaning

Wipe all sensors (cliff sensors, wall sensors, charging contacts) on the robot and dock with a clean, dry cloth to ensure proper operation.

6. TROUBLESHOOTING

If you encounter issues with your Redkey R10, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Robot does not turn on or charge.	Low battery; charging contacts are dirty or misaligned; power adapter not connected.	Ensure the robot is properly docked and charging contacts are clean. Check power connection to the dock.
Robot gets stuck frequently.	Obstacles in the cleaning path; cliff sensors are dirty.	Clear cables, toys, and other obstacles. Clean cliff sensors with a dry cloth.
Poor cleaning performance.	Dustbin full; roller brush tangled; filter clogged; suction mode too low.	Empty dustbin. Clean roller brush and filter. Select a higher suction mode via the app.
Robot cannot connect to Wi-Fi/App.	Incorrect Wi-Fi password; 5GHz Wi-Fi network; robot too far from router.	Ensure you are using a 2.4GHz Wi-Fi network. Verify password. Move robot closer to router. Reset Wi-Fi on robot if necessary.
Self-empty dock not emptying.	Dust bag full or improperly installed; suction port blocked.	Replace dust bag. Ensure dust bag is correctly installed. Check for blockages in the dock's suction port.

For issues not listed here, please contact Redkey customer support.

7. SPECIFICATIONS

Feature	Detail
Brand	Redkey
Model Name	R10
Model Number	R10-CA
Colour	White
Product Dimensions	41.4L x 40.3W x 34H Centimetres
Item Weight	9.2 kg
Voltage	14.4 Volts
Battery Cell Composition	Lithium Ion
Suction Power	4000Pa (Pro-Level)
Dust Bag Capacity (Dock)	4L (up to 90-day hands-free)
Water Tank Capacity	350ml
Navigation Type	LDS Precision Laser Mapping (USLAM Air 6.0)
Connectivity	2.4G Wi-Fi (App Control), Voice Control (Alexa/Google Assistant)
Surface Recommendation	Multi-Surface
Included Components	Self-Empty Dock, Dust Bag, Mop Pad, Charging Adapter, Instruction Guide, Remote Control, Battery

8. WARRANTY AND SUPPORT

8.1 Warranty Information

Redkey products are manufactured to high quality standards. For specific warranty terms and conditions, please refer to the warranty card included in your product packaging or visit the official Redkey website. The warranty typically covers manufacturing defects for a specified period from the date of purchase.

Please retain your proof of purchase for warranty claims.

8.2 Customer Support

If you have any questions, require technical assistance, or need to report an issue with your Redkey R10, please contact our customer support team:

- **Email:** after-sales@redroadglobal.com
- **Online Support:** Visit the official Redkey website for FAQs and support resources.

When contacting support, please provide your product model (R10) and a detailed description of the issue.