iRobot Roomba 504 (K151020)

iRobot Roomba Plus 504 Vac Robot Vacuum Instruction Manual

Model: Roomba 504 (K151020)

Your guide to advanced robotic cleaning.

1. PRODUCT OVERVIEW

The iRobot Roomba Plus 504 Vac Robot Vacuum with AutoEmpty Dock is designed to provide a superior, hands-free cleaning experience. Featuring PrecisionVision AI, advanced LiDAR navigation, and powerful suction, it intelligently cleans your home while automatically emptying its dustbin for up to 75 days.

The Roomba Plus 504 Vac Robot Vacuum and its AutoEmpty Dock, alongside the companion mobile application.

Key Features:

- **PrecisionVision AI Technology:** Recognizes and avoids obstacles like cords, socks, and pet waste.
- **Extreme Power-Lifting Suction:** Combined with anti-tangle Dual Rubber Brushes for thorough cleaning.
- **ClearView Pro LiDAR:** Expertly maps your home for maximized coverage and efficient navigation.
- **AutoEmpty Dock:** Automatically empties the robot's dustbin, providing up to 75 days of hands-free cleaning.
- **Advanced Dirt Detect Technology:** Identifies and focuses on dirtier areas for a more thorough clean.
- **Roomba Home App:** Offers advanced 3D mapping, object recognition, personalized settings, and control.
- **Voice Assistant Compatibility:** Works with Alexa, Siri, and Google Assistant-enabled devices for convenient control.

2. SETUP GUIDE

2.1 Unpacking and Placement

1. Carefully remove the robot vacuum and AutoEmpty Dock from the packaging.
2. Choose a suitable location for the AutoEmpty Dock. Ensure it is on a hard, level surface, against a wall, with at least 1.5 feet (0.45 meters) clear space on each side and 4 feet (1.2 meters) in front. Avoid placing it near stairs or heat sources.
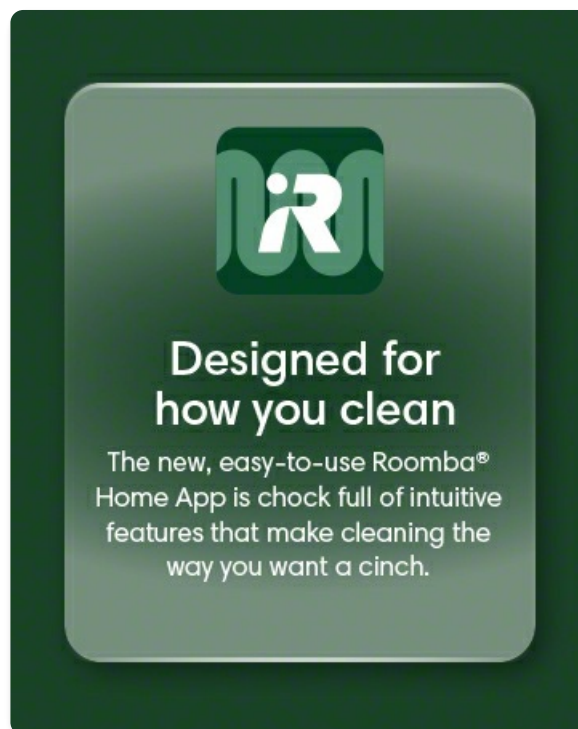3. Plug the dock's power cord into a wall outlet.

2.2 Initial Charging

Place the Roomba robot onto the AutoEmpty Dock. Ensure the charging contacts on the robot align with those on the dock. The robot will begin charging automatically. Allow the robot to fully charge before its first cleaning mission, which typically takes several hours.

2.3 Connecting to the iRobot Home App

The iRobot Home App is essential for controlling your Roomba, setting up cleaning schedules, and accessing advanced features.

1. Download the iRobot Home App from your device's app store (available on iOS and Android).
2. Open the app and follow the on-screen instructions to create an account or log in.
3. Select "Add a Robot" and choose your Roomba model.
4. Follow the app's prompts to connect your robot to your home Wi-Fi network. This process typically involves pressing a button on the robot and confirming the connection in the app.

Designed for how you clean

The new, easy-to-use Roomba® Home App is chock full of intuitive features that make cleaning the way you want a cinch.

The iRobot Home App provides intuitive control and features for your Roomba.

3. OPERATING INSTRUCTIONS

3.1 Starting a Cleaning Job

You can start a cleaning job using the robot's button, the iRobot Home App, or a voice assistant.

- **Robot Button:** Press the CLEAN button on the robot once to start a cleaning cycle. Press it again to pause, and a third time to end the job and send the robot back to its dock.
- **iRobot Home App:** Open the app and tap the "CLEAN" button. You can also select specific rooms or zones to clean, adjust suction levels, or set up cleaning passes.
- **Voice Assistant:** If connected to Alexa, Siri, or Google Assistant, use commands like "Alexa, tell Roomba to start cleaning" or "Hey Google, vacuum the living room."

Control your Roomba using voice commands through compatible smart devices.

3.2 Navigation and Mapping

The Roomba Plus 504 uses advanced technologies for efficient navigation:

- **PrecisionVision AI:** Helps the robot identify and avoid obstacles in its path, such as shoes, cords, and pet waste, ensuring a smooth cleaning run.
- **ClearView Pro LiDAR:** Creates detailed maps of your home, allowing the robot to navigate logically, cover all areas, and avoid missing spots. It also helps the robot detect stairs and prevent falls.
- **Smart Mapping:** Through the app, the robot learns your home's layout, allowing you to define specific rooms, zones, and even 'Keep Out Zones' for targeted cleaning or exclusion.

PrecisionVision™ AI Technology
IMMEDIATELY RECOGNIZES AND AVOIDS OBJECTS OF ALL SIZES

PrecisionVision AI allows the Roomba to intelligently recognize and avoid obstacles.

ClearView Pro LiDAR expertly maps your home to ensure comprehensive cleaning coverage.

3.3 Cleaning Performance

- **Dual Rubber Brushes:** Patented anti-tangle rubber brushes flex and adjust to stay in constant contact with various floor types, effectively loosening and lifting dirt.
- **Carpet Boost:** The robot automatically increases suction power when it detects carpets, ensuring a deeper clean for embedded dirt and pet hair.
- **Dirt Detect Technology:** Sensors identify concentrated areas of dirt, prompting the robot to perform extra cleaning passes for a more thorough result.
- **Edge-Sweeping Brush:** Designed to sweep debris away from edges and corners into the robot's cleaning path.

3
STAGES

Extreme power, expert clean.

Edge-Sweeping Brush

Extreme Suction + Carpet Boost

Anti-tangle
Dual Rubber Brushes

The Roomba's 3-stage cleaning system, including the edge-sweeping brush, dual rubber brushes, and powerful suction.

The Roomba provides enhanced edge and corner cleaning for comprehensive coverage.

4. MAINTENANCE

Regular maintenance ensures your Roomba continues to operate at peak performance. The iRobot Home App's "Health Dashboard" provides guidance on when to clean or replace parts.

4.1 AutoEmpty Dock Maintenance

The AutoEmpty Dock automatically empties the robot's dustbin into an enclosed bag, providing up to 75 days of hands-free cleaning. When the bag is full, the app will notify you, and you will need to replace it.

75 DAYS Captures debris for up to 75 days
WITHOUT RELEASING A CLOUD OF DUST

The AutoEmpty Dock captures debris for up to 75 days, keeping your home dust cloud-free.

4.2 Robot Components Maintenance

Periodically inspect and clean the following components:

- **Edge-Sweeping Brush:** Remove any hair or debris wrapped around the brush.
- **Dual Rubber Brushes:** Remove the brushes and clear any hair or debris, especially from the ends.
- **Filter:** Tap out debris from the filter or replace it as indicated by the app.
- **Sensors and Charging Contacts:** Wipe clean with a dry cloth to ensure proper function.

The iRobot Home App's Health Dashboard helps you track and manage robot maintenance needs.

5. TROUBLESHOOTING

If your Roomba encounters an issue, the iRobot Home App often provides specific error messages and troubleshooting steps. Here are some common issues and general advice:

- **Robot Not Charging:** Ensure the AutoEmpty Dock is plugged in and the robot is properly seated on the charging contacts. Clean the charging contacts on both the robot and the dock with a dry cloth.
- **Robot Stuck or Error Message:** Check for any obstructions around the wheels, brushes, or sensors. Clear any tangled hair or debris. Refer to the iRobot Home App for specific error codes and solutions.
- **Poor Cleaning Performance:** Clean the brushes, filter, and dustbin. Ensure the AutoEmpty Dock bag is not full. Check for any objects blocking the robot's path or preventing it from reaching certain areas.
- **Mapping Issues:** Ensure good lighting conditions during mapping runs. Clear the floor of excessive clutter. If the map is inaccurate, consider resetting the map in the app and allowing the robot to remap your home.
- **Wi-Fi Connectivity Issues:** Ensure your Wi-Fi router is on and within range. Restart your router and the robot. Follow the in-app instructions for reconnecting to Wi-Fi if necessary.

For persistent issues, consult the iRobot Home App's help section or contact iRobot Customer Support.

6. SPECIFICATIONS

Feature	Detail
Brand	iRobot
Model Name	Roomba 504
Item Model Number	K151020
Color	Black

Product Dimensions	13.8"L x 14"W x 4.1"H
Item Weight	16.63 pounds
Included Components	Docking Station
Filter Type	Cartridge
Battery Life	210 minutes
Power Source	Battery Powered
Control Method	App, Push Button, Voice
Form Factor	Round
UPC	885155046000

7. WARRANTY AND SUPPORT

iRobot stands by the quality of its products. For specific warranty details, please refer to the documentation included with your purchase or visit the official iRobot website. It is recommended to purchase iRobot products from authorized resellers to ensure warranty coverage and access to genuine service and replacements.

Customer Support:

If you require assistance with setup, operation, maintenance, or troubleshooting, please contact iRobot Customer Support. You can find contact information on the iRobot website or within the iRobot Home App.

Award-winning customer service & data privacy

Dependable robots. Excellent service. Our specially trained Customer Care agents are ready to assist if ever you need help.

Your privacy is our priority. We use the highest standards of data encryption to make sure your data stays private and secure.

iRobot offers dedicated customer service and prioritizes data privacy.

Related Documents

	iRobot Q1 2025 Shareholder Letter: Innovative Product Launch and Strong Financial Outlook iRobot Corporation's First Quarter 2025 Shareholder Letter detailing the successful launch of new Roomba products, operational restructuring, cost reductions, and positive financial results, with a focus on future growth and innovation.
	iRobot Roomba 105 Vac Combo Robot Owner's Guide: Setup, Cleaning, and Maintenance Comprehensive guide for the iRobot Roomba 105 Vac Combo robot and AutoEmpty dock. Learn about setup, daily cleaning, mopping, maintenance, troubleshooting, and best practices for optimal performance.
	iRobot Launches Roomba Max 705 Vac Robot + AutoEmpty™ Charging Station with Enhanced Suction Power iRobot Japan announces the launch of the Roomba Max 705 Vac Robot + AutoEmpty™ Charging Station, featuring the highest suction power in Roomba history and advanced sensor technology for a superior cleaning experience. This flagship model offers advanced navigation, object recognition, and automatic dirt disposal.
	Roomba 105 Vac Combo Robot + AutoEmpty Dock Owner's Guide This guide provides instructions for setting up, operating, and maintaining the iRobot Roomba 105 Vac Combo robot with AutoEmpty dock. Learn about charging, cleaning patterns, troubleshooting, and care for your robot and dock.