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Panda Plus AMG-R3PRO

Panda Plus AMG-R3 PRO Intelligent Robot Vacuum Cleaner User Manual

Model: AMG-R3PRO

1. Introduction

Thank you for choosing the Panda Plus AMG-R3 PRO Intelligent Robot Vacuum Cleaner. This 3-in-1 device is designed to sweep, vacuum, and mop your floors, providing an efficient and convenient cleaning experience. Equipped with advanced LDS laser mapping technology, Wi-Fi connectivity, and compatibility with smart assistants like Alexa and Google Assistant, the AMG-R3 PRO offers intelligent navigation and control. Please read this manual carefully before use to ensure proper operation and maintenance of your robot vacuum.

2. Safety Instructions

To reduce the risk of injury or damage, read and follow all safety precautions when setting up, using, and maintaining your robot vacuum. Keep this manual for future reference.

- This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children should be supervised to ensure that they do not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.
- Do not use the robot vacuum in wet environments or near water.
- Ensure the charging base is placed on a flat, stable surface and away from heat sources.
- Do not allow the robot to pick up large or sharp objects, liquids, or burning materials.
- Regularly clean the brushes and filters to maintain optimal performance.
- Only use the original power adapter and charging base provided with the device.
- Before cleaning or performing maintenance, ensure the robot is turned off and unplugged from the charging base.

3. Package Contents

Carefully unpack the box and ensure all items are present and in good condition. If any items are missing or damaged, please contact customer support.

- 1 x Panda Plus AMG-R3 PRO Robot Vacuum Cleaner (with integrated rechargeable battery and 2-in-1 dustbin/water tank)
- 1 x Charging Station (Base)
- 1 x Bivolt Power Adapter (AC/DC adapter)
- 2 x Side Brushes (one installed, one extra)
- 1 x Central Brush
- 2 x HEPA Filters (one for use, one extra)
- 1 x Cleaning Tool (small brush)
- 1 x User Manual



Image: All components included in the Panda Plus AMG-R3 PRO package, including the robot, charging base, power adapter, side brushes, central brush, HEPA filters, cleaning tool, and mop cloth.

4. Product Overview

The Panda Plus AMG-R3 PRO is an advanced robot vacuum designed for comprehensive floor cleaning. It features a slim design, powerful suction, and intelligent navigation.

Key Features:

- **3-in-1 Functionality:** Sweeps, vacuums, and mops for complete floor care.
- **LDS Laser Mapping:** Scans the environment in 360° to create a precise 3D map, enabling optimized cleaning routes and virtual boundaries.
- **Smart Control:** Control via the Panda Plus or Tuya app (Android/iOS) and compatible with Alexa and Google Assistant for voice commands.
- **Multiple Cleaning Modes:** Automatic, Corners, Spiral (Spot), and 3-in-1 (Sweep, Vacuum, Mop).
- **Obstacle Navigation:** Capable of overcoming obstacles up to 20mm (0.78 inches) high.
- **Safety Sensors:** Equipped with anti-fall and anti-collision sensors to protect the robot and your furniture.
- **Automatic Charging:** Returns to its charging base automatically when the battery is low.
- **High Suction Power:** 3000Pa suction for effective removal of dust, hair, and pet fur.
- **HEPA Filtration:** High-efficiency filter captures microscopic particles, beneficial for allergy sufferers.
- **Long Battery Life:** Up to 100 minutes of continuous cleaning on a single charge.
- **Compact Design:** With dimensions of 32 x 32 x 7.8 cm, it can easily clean under most furniture.

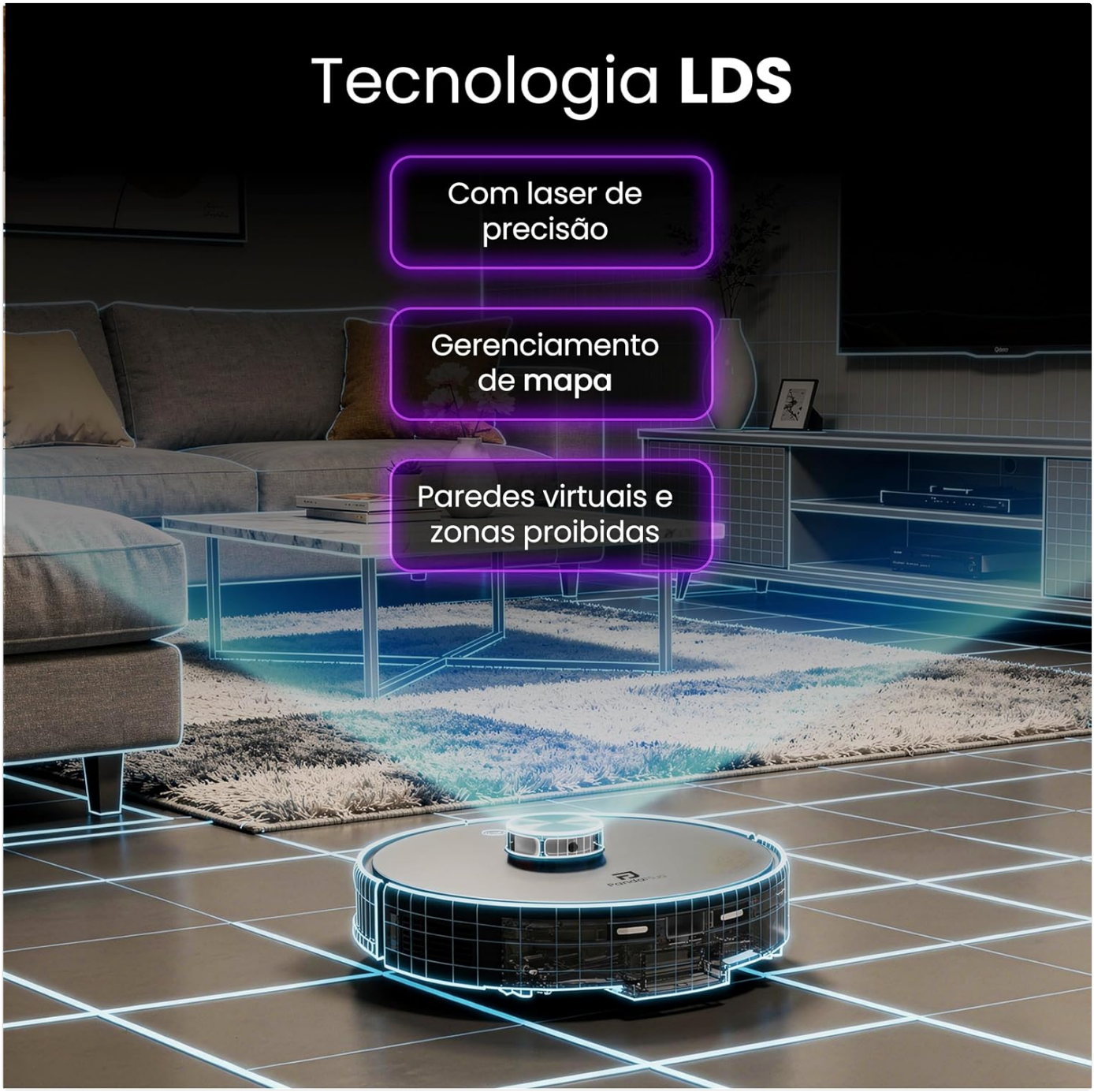


Image: The robot vacuum utilizing LDS laser technology to map its environment, showing precision laser scanning, map management, and virtual walls/restricted zones.



Image: The robot vacuum demonstrating its slim design (7.8 cm height) by cleaning under a sofa, highlighting its ability to reach difficult areas.

5. Setup

5.1 Installing Side Brushes

Align the side brushes with the corresponding slots on the bottom of the robot and press them down until they click into place. Ensure they are securely attached.

5.2 Placing the Charging Station

Place the charging station against a wall in an open area, ensuring there are no obstacles within 1 meter (3 feet) to the sides and 2 meters (6 feet) in front of the station. Connect the power adapter to the charging station and plug it into a power outlet. Ensure the power adapter is bivolt compatible (100-240V).

5.3 Initial Charging

Place the robot vacuum onto the charging station. The robot will automatically align itself and begin charging. For first-time use, fully charge the robot for approximately 4-5 hours before its initial cleaning cycle.



Image: The robot vacuum automatically returning to its charging base when its battery level is low (5%), demonstrating its impressive 3000 Pa suction power during operation.

5.4 Connecting to the App

1. Download the **Panda Plus** app or **Tuya Smart** app from the App Store (iOS) or Google Play Store (Android).
2. Register or log in to your account.
3. Ensure your mobile device is connected to a 2.4GHz Wi-Fi network.
4. Follow the in-app instructions to add your AMG-R3 PRO robot vacuum. This typically involves putting the robot into pairing mode (refer to the robot's specific indicator lights or button presses for pairing mode).
5. Once connected, you can control the robot, view cleaning maps, set virtual walls, and schedule cleaning tasks through the app.

6. Operating

6.1 Starting a Cleaning Cycle

- **Manual Start:** Press the power button on the robot once to start an automatic cleaning cycle.
- **App Control:** Open the Panda Plus or Tuya app and select the desired cleaning mode (Automatic, Corners, Spiral, or 3-in-1) to start cleaning.
- **Voice Command:** If connected to Alexa or Google Assistant, use voice commands such as "Alexa, turn on the robot vacuum" or "Hey Google, start cleaning with the robot vacuum."



Image: A user relaxing on a sofa while controlling the robot vacuum with voice commands via Alexa or Google Assistant, demonstrating the convenience of smart home integration.

6.2 Cleaning Modes

The AMG-R3 PRO offers four intelligent cleaning modes:

- **Automatic Mode:** The robot autonomously navigates and cleans the entire area.
- **Corners Mode:** Focuses on cleaning along walls and in corners.
- **Spiral (Spot) Mode:** Concentrated cleaning in a specific area with localized dirt.
- **3-in-1 Mode (Sweep, Vacuum, Mop):** Utilizes the integrated water tank and mop cloth for wet cleaning on hard floors.

6.3 Scheduling Cleaning

Use the Panda Plus or Tuya app to set up cleaning schedules. You can program specific times and days for the robot to automatically start cleaning.

6.4 Using the Mopping Function

To use the mopping function, ensure the 2-in-1 dustbin/water tank is filled with clean water. Attach the mop cloth to the bottom of the water tank. The robot will then sweep, vacuum, and mop simultaneously. This function is ideal for hard floors like tile and laminate.

7. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your robot vacuum. Always turn off the robot and unplug it from the charging base before performing any maintenance.

7.1 Emptying the Dustbin and Refilling the Water Tank

Press the release button to remove the 2-in-1 dustbin/water tank. Open the dustbin compartment, empty the collected debris, and rinse it with water if necessary. For mopping, open the water tank cap and fill it with clean water. Ensure the tank is properly reinserted until it clicks into place.

7.2 Cleaning the Filters

Remove the HEPA filter from the dustbin. Tap it gently to remove dust. Do not wash the HEPA filter with water; it can be cleaned with the provided cleaning tool or a small brush. Replace the HEPA filter every 3-6 months, or as needed, to maintain suction efficiency.

7.3 Cleaning the Brushes

- **Central Brush:** Remove the central brush cover and lift out the brush. Use the cleaning tool to remove any tangled hair or debris. Reinstall the brush and cover.
- **Side Brushes:** Gently pull the side brushes upwards to remove them. Clean any hair or debris wrapped around them. If the bristles are worn or damaged, replace them with new ones. Push them back into place until they click.

7.4 Cleaning Sensors and Charging Contacts

Use a clean, dry cloth to wipe the anti-fall sensors (located on the bottom of the robot), anti-collision sensors (on the bumper), and the charging contacts on both the robot and the charging station. Keep these areas clean for proper operation.

7.5 Resetting the Robot

If the robot is unresponsive or experiencing issues, locate the reset button (often a small pinhole) and press it with a pin for a few seconds. This will restart the robot without erasing its map data.



Image: Top view of the robot vacuum highlighting the LDS distance sensor and the reset button, emphasizing the device's robust design and safety features.

8. Troubleshooting

If you encounter any issues with your robot vacuum, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Robot does not turn on	Low battery; Power button not pressed correctly	Place the robot on the charging station; Press and hold the power button for a few seconds.
Robot cannot charge	Charging contacts are dirty; Charging station is unplugged	Clean the charging contacts on both the robot and the station; Ensure the charging station is plugged in.

Problem	Possible Cause	Solution
Robot gets stuck frequently	Too many obstacles; Side brushes tangled	Clear the cleaning area of excessive clutter; Clean the side brushes.
Poor cleaning performance	Dustbin full; Filter clogged; Brushes tangled/worn	Empty the dustbin; Clean or replace the HEPA filter; Clean or replace the brushes.
Robot cannot connect to Wi-Fi	Incorrect Wi-Fi password; Router is 5GHz only; Robot not in pairing mode	Verify Wi-Fi password; Ensure router supports 2.4GHz; Follow app instructions to put robot in pairing mode.
Mopping function not working	Water tank empty; Mop cloth not attached; Water outlet clogged	Fill the water tank; Attach the mop cloth correctly; Clean the water outlet.

9. Specifications

Detailed technical specifications for the Panda Plus AMG-R3 PRO robot vacuum cleaner.

Feature	Specification
Model Number	AMG-R3PRO
Brand	Panda Plus
Functions	Sweep, Vacuum, Mop (3-in-1)
Navigation	LDS Laser Mapping (360° scan, 3D map)
Suction Power	3000Pa
Noise Level	75dB
Dustbin Capacity	400ml
Water Tank Capacity	250ml
Battery Type	Lithium-Ion
Battery Capacity	2600mAh
Runtime	Up to 100 minutes
Charging Time	Approx. 4-5 hours
Power Adapter Input	100-240V ~ 50/60Hz (Bivolt)
Power Adapter Output	19V 0.6A
Dimensions (L x W x H)	32 x 32 x 7.8 cm (12.6 x 12.6 x 3.07 inches)

Feature	Specification
Item Weight	2.7 kg (5.95 lbs)
Obstacle Climbing Ability	Up to 20mm (0.78 inches)
Connectivity	Wi-Fi 2.4GHz, App Control (Panda Plus/Tuya), Voice Control (Alexa, Google Assistant)
Recommended Surface	Hard floors, low-pile carpets



Image: Overview of the AMG-R3 PRO's advanced features, including 100 min autonomy, bivolt compatibility, anti-fall/anti-collision sensors, 3000 PA suction, voice command, scheduling, and various cleaning modes. Also shows the 250ml water reservoir and 400ml dustbin.

PandaPlus			
MODELO	AMG-R1	AMG-R2	AMG-R3PRO
DIMENSÕES	Ø 290 × 78,5 mm	Ø 305 × 78 mm	Ø 320 × 95 mm
DURAÇÃO DA BATERIA	70 min	100 min	100 min
CAPACIDADE DO RESERVATÓRIO DE PÓ	400ml	400ml	400ml
POTÊNCIA DE SUCÇÃO	1000PA	2000PA	3000PA (com Carpet Boost)
SENSORES	Anti-queda e obstáculos por contato	Anti-queda e obstáculos por contato	Anti-queda + detecção sem contato / LDS identifica objetos >10 cm)
PROGRAMAÇÃO DE HORÁRIOS	✓	✓	✓
ULTRAPASSA OBSTÁCULOS	✓	✓	✓
CONEXÃO WI-FI	✓	✓	✓
RETORNO AUTOMATICO À BASE	✓	✓	✓
FUNÇÕES DE LIMPEZA	Automático, Pontual, Bordas	Automático, Pontual, Bordas, Passar pano	Automático, Pontual, Bordas, Modo Y
NAVEGAÇÃO	Aleatória (Wi-Fi)	Giroscópio (Wi-Fi)	LDS (Laser 360°)
ESCOVA CENTRAL	Não possui (entrada de sucção)	Não possui (entrada de sucção)	Sim (escova central, ideal para tapetes)
CAPACIDADE DE SUPERAR OBSTÁCULOS	≤ 15 mm	≤ 18 mm	≤ 20 mm
POTÊNCIA	15 W	24 W	40 W

Image: A comparison table detailing specifications and features across Panda Plus robot vacuum models AMG-R1, AMG-R2, and AMG-R3PRO, highlighting the superior features of the AMG-R3PRO.

10. Warranty

The Panda Plus AMG-R3 PRO Robot Vacuum Cleaner comes with a**6-month warranty** against manufacturing defects from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear. Please retain your proof of purchase for warranty claims.

11. Support

If you have any questions, require assistance, or encounter issues not covered in this manual, please contact Panda Plus customer support. Our team is available to help you.

- **Support Hours:** Monday to Friday, 8:00 AM to 5:30 PM (local time).

- **Contact Information:** Please refer to the contact details provided on the product packaging or the official Panda Plus website for the most up-to-date support channels.

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