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› ANTHBOT M9 Robotic Lawnmower User Manual

ANTHBOT M9

ANTHBOT M9 Robotic Lawnmower User Manual

Model: M9

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your ANTHBOT M9 Robotic Lawnmower. Please read this manual thoroughly before using the product and keep it for future reference.

The ANTHBOT M9 is an advanced robotic lawnmower designed to maintain your lawn with minimal effort, featuring RTK navigation, intelligent mapping, and obstacle detection.

2. SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your ANTHBOT M9. The M9 utilizes RTK (Real-Time Kinematic) technology for precise positioning, eliminating the need for perimeter wires.

2.1 Unpacking and Initial Placement

Carefully unpack all components. Ensure the charging station and RTK reference station are placed in an open area with a clear view of the sky to ensure strong satellite signal reception. The RTK reference station should be securely fixed to the ground or a stable structure to prevent any movement that could affect mapping accuracy.

2.2 RTK Installation and App Configuration

The ANTHBOT M9 features a quick setup process. Installation of the RTK system, configuration through the dedicated mobile application, and automatic mapping of your lawn can typically be completed in approximately 10 minutes.

Programación Inteligente de Corte



Figure 2.2.1: The ANTHBOT M9 system eliminates the need for physical boundary wires, saving significant installation time compared to traditional robotic lawnmowers.

The RTK system uses a GPS rod, and the package includes 1m and 3m extension cables to allow flexible placement of the GPS station further from the base if needed.

2.3 Dual RTK Coverage

The M9 supports dual RTK coverage, allowing it to operate effectively across both front and rear garden areas, provided the RTK signal is consistent.

RTK Dual, Con Cobertura en El Jardín Delantero y Trasero



NetRTK, Navegación con Tecnología 4G Global

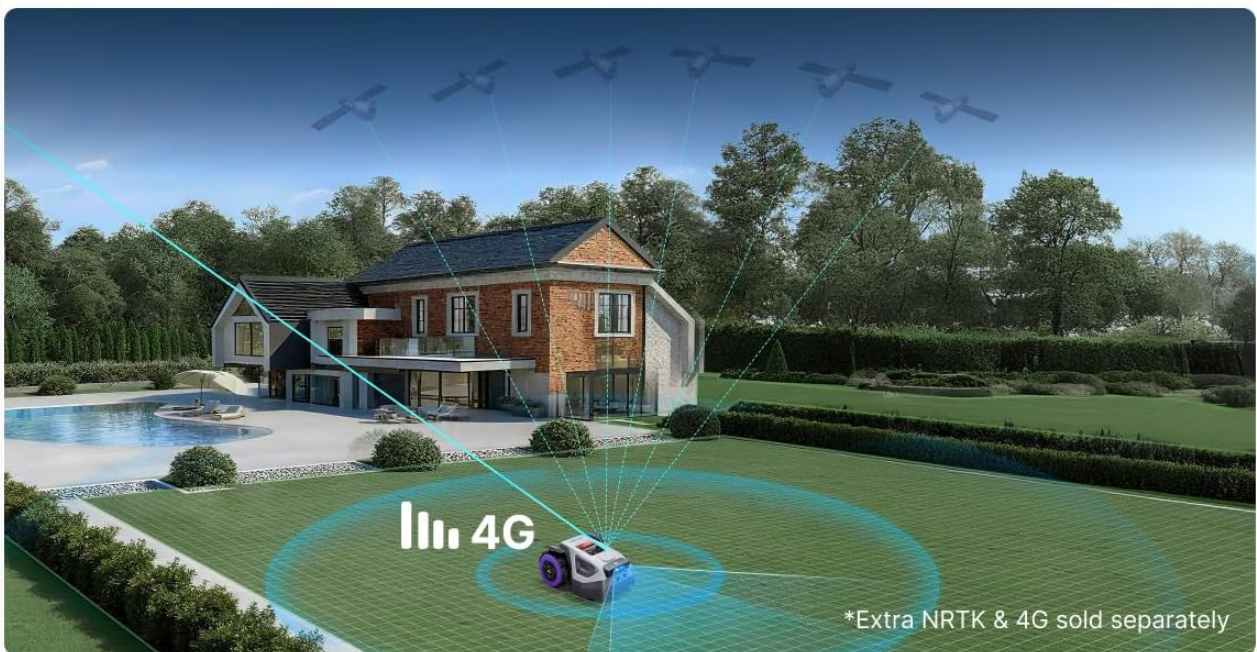


Figure 2.3.1: Illustration of the ANTHBOT M9 utilizing dual RTK for comprehensive coverage of both front and rear garden areas, alongside its 4G global navigation capabilities.

3. OPERATION

The ANTHBOT M9 is designed for autonomous and intelligent lawn care.

3.1 Intelligent Cutting Programming

Utilize the mobile application to set up intelligent cutting schedules for different zones of your lawn. You can program specific days and times for the mower to operate in designated areas.



Figure 3.1.1: The ANTHBOT M9's intelligent cutting programming allows users to define specific mowing schedules for various lawn sections via the mobile application.

3.2 Ultra-Precision Navigation

The M9 employs full-band RTK and dual vision technology for highly accurate navigation. This system ensures precise positioning and efficient mowing patterns, even in complex environments.

Sin Cables, Ahorro de Tiempo y Molestias

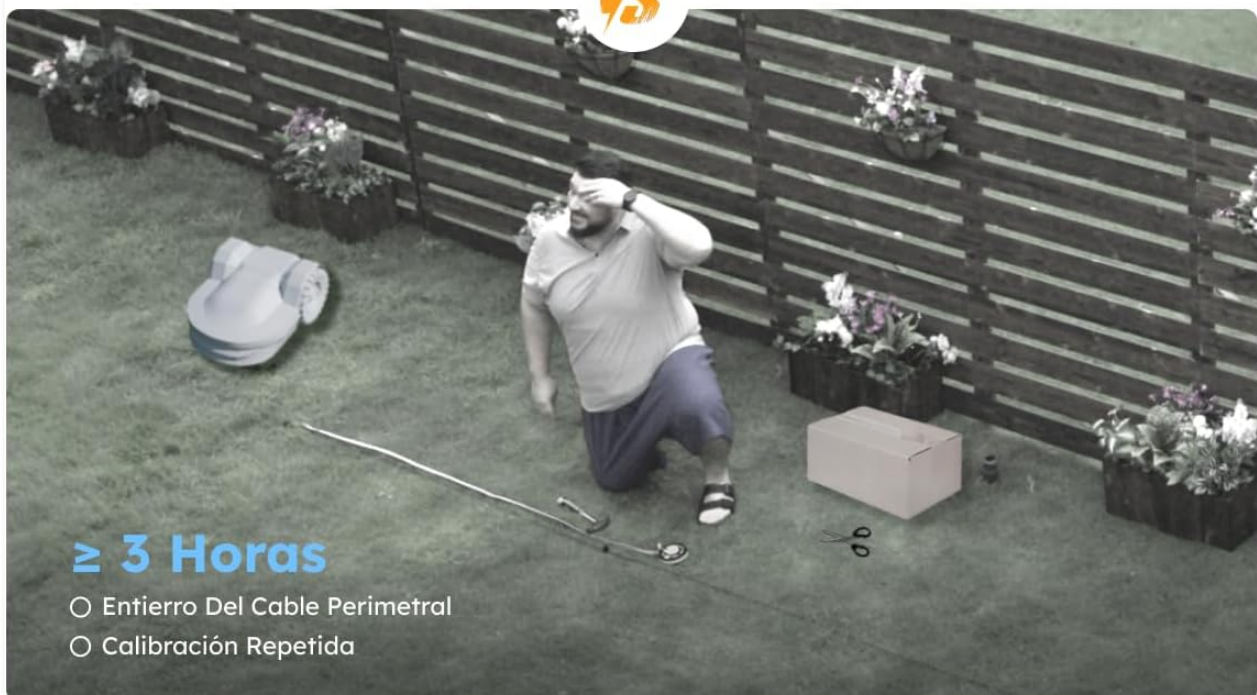
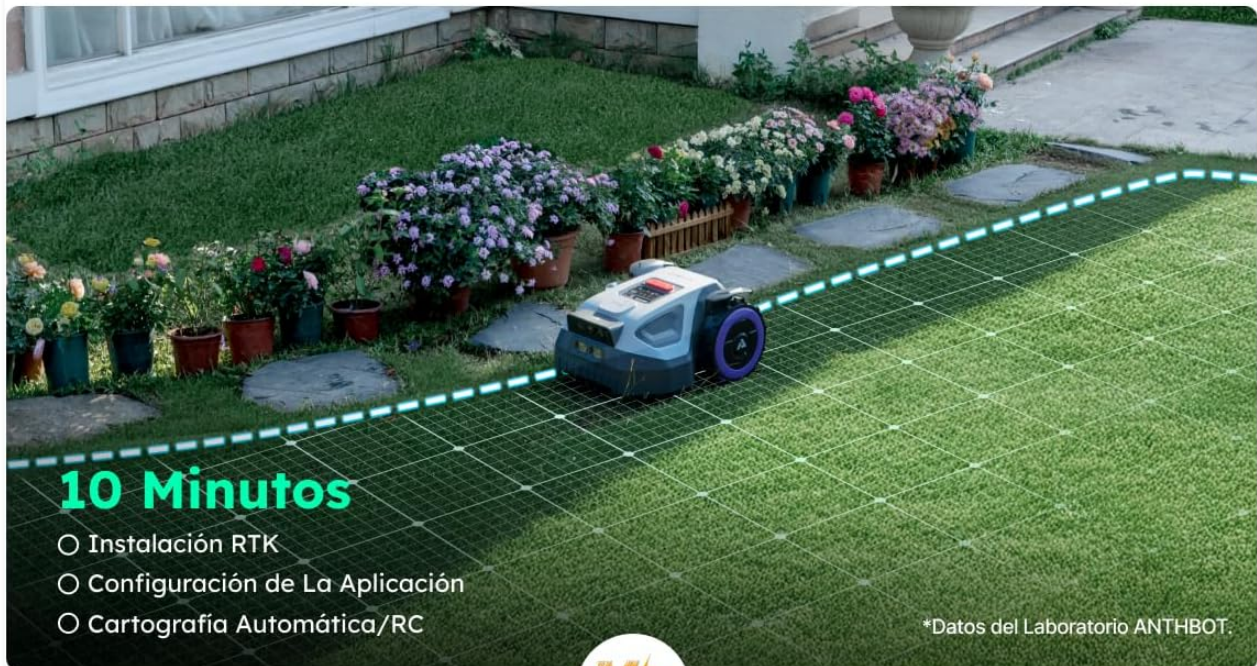


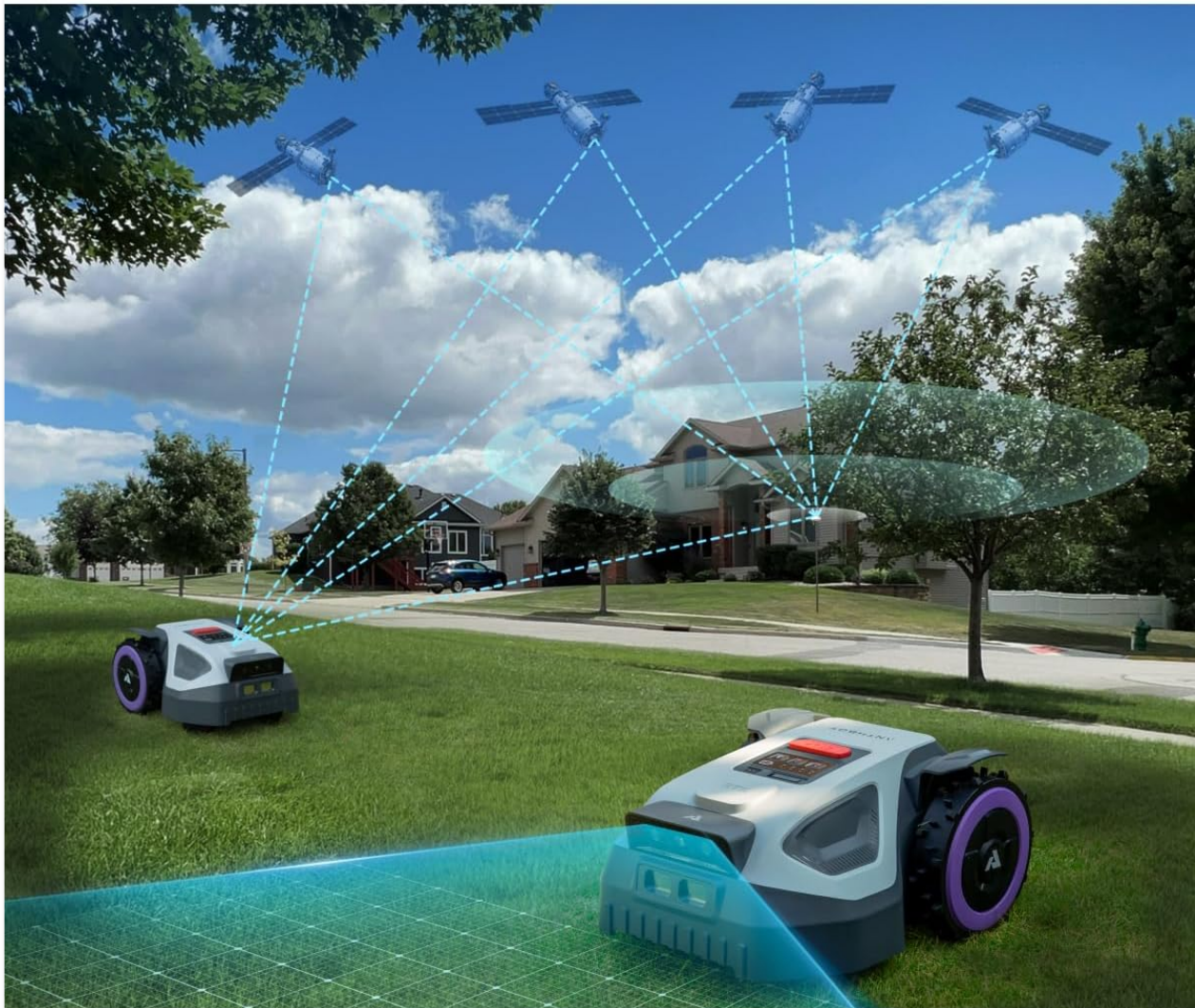
Figure 3.2.1: The ANTHBOT M9's ultra-precision navigation system, combining full-band RTK with dual vision, ensures accurate movement and efficient lawn coverage.

3.3 AI Obstacle Detection

Equipped with 150° AI vision, the M9 can detect over 1000 types of obstacles, including people, pets, and garden items, ensuring safe operation and protection of wildlife.

Navegación de Ultraprecisión

RTK de Banda Completa + Visión Dual





RTK de Banda Completa		Visión Dual		
155 Satélites GPS	5x Velocidad de Conexión 5 Veces Mayor	150% Estabilidad de Señal Del 150 %	 Navegación en Zonas Sin Señal	 Adaptación a Condiciones de Iluminación Complejas

Figure 3.3.1: The ANTHBOT M9's AI vision system actively detects and avoids over 1000 types of obstacles, enhancing safety during operation.

3.4 Adjustable Cutting Height

The cutting height of the M9 can be easily adjusted via the mobile application, allowing you to customize the lawn length between 3-7 cm according to your preference and grass growth conditions.

Altura de Corte Ajustable a Través de la Aplicación.



Figure 3.4.1: The ANTHBOT M9 allows for convenient adjustment of cutting height through its mobile application, offering flexibility for different lawn conditions.

3.5 4G Global Navigation (NetRTK)

For enhanced connectivity and navigation, the M9 supports NetRTK with Global 4G technology. This feature provides reliable positioning even in areas with challenging GPS signals. Note that 4G service may require a separate subscription and network compatibility in your area.

3.6 Low Noise Operation

The ANTHBOT M9 operates at a low noise level, typically ≤ 58 dB, allowing for quiet operation at any time of day or night without disturbing your neighbors.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your robotic lawnmower.

4.1 Cleaning

Periodically clean the rotating plate and cutting blades to remove grass clippings and debris. Ensure the mower is turned off and disconnected from power before cleaning. The M9 is designed with IPX6 water resistance, allowing for easy cleaning with water.

4.2 Software Updates (OTA)

The ANTHBOT M9 supports Over-The-Air (OTA) updates, allowing for convenient software enhancements and bug fixes directly through the mobile application. Regularly check for and install available updates to ensure your mower has the latest features and performance improvements.

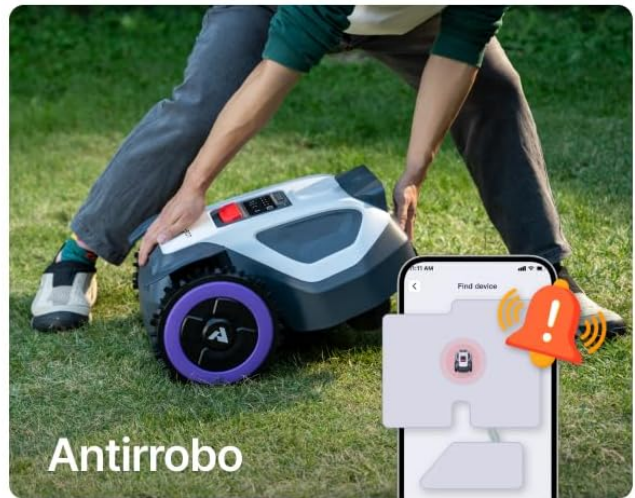


Figure 4.2.1: Overview of key ANTHBOT M9 features: IPX6 water resistance for easy cleaning, quiet operation (≤ 58 dB), an anti-theft system, convenient OTA software updates, and an accessible emergency stop button.

5. SAFETY FEATURES

Your ANTHBOT M9 is equipped with several safety features to protect users and the device.

5.1 Anti-theft System

The mower includes an anti-theft system that can alert you if the device is moved outside its designated area or tampered with.

5.2 Emergency Stop Button

An easily accessible emergency stop button is located on the mower. Press this button immediately to halt all operations in case of an emergency.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your ANTHBOT M9.

6.1 Signal Loss or Navigation Issues

- **Problem:** Mower loses signal or navigates erratically.
- **Solution:** Ensure the RTK reference station has a clear, unobstructed view of the sky. Avoid placing it near tall buildings or dense foliage. Verify that the base station is securely fixed and has not moved, as any movement can require re-mapping.
- **Problem:** 4G navigation not working.
- **Solution:** Check if 4G service is active and compatible with your region and network provider. Some providers may not be supported (e.g., Vodafone in some regions, as noted by users). Ensure the mower is in an area with good cellular coverage.

6.2 Mapping Errors

- **Problem:** Mower does not follow the mapped area correctly or requires frequent re-mapping.
- **Solution:** The stability of the base station is critical for map accuracy. Ensure it is very firmly anchored to the ground or a stable structure. Any slight movement of the base station can necessitate re-creating the map.

6.3 General Performance Issues

- **Problem:** Mower not cutting effectively or getting stuck.
- **Solution:** Clean the cutting deck and blades regularly. Ensure the lawn is free of large debris or obstacles. Check for any pending software updates via the app.

7. SPECIFICATIONS

Feature	Detail
Brand	ANTHBOT
Power Source	Battery Powered
Style	M9 + garage
Product Weight	9.8 Kilograms
Cutting Width	20 Centimeters
Operation Mode	Automatic

Feature	Detail
Product Dimensions (L x W x H)	49.8 x 39.2 x 27.8 cm
Assembly Required	Yes
Number of Units	1.0
Manufacturer	ANTHBOT
Model Number	M9
Part Number	M9
ASIN	B0G7Z8HCWM

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or contact ANTHBOT customer service directly. You can typically find contact details on the manufacturer's official website or through your retailer.

Please have your model number (M9) and purchase details ready when contacting support.