Mammotion YUKA mini 500

YUKA Mini 500 Robotic Lawn Mower User Manual

Model: YUKA mini 500 | Brand: Mammotion

Introduction | What's in the Box | Setup | Operation | Maintenance | Troubleshooting | Specifications | Warranty & Support

1. Introduction

The Mammotion YUKA Mini 500 is an advanced robotic lawn mower designed for efficient and autonomous lawn care in small to medium-sized yards. Featuring Ultrasense AI Vision and RTK Positioning, it offers wire-free setup and precise mowing. This manual provides essential information for the safe and effective operation and maintenance of your YUKA Mini 500.



Figure 1: The YUKA Mini 500 Robotic Lawn Mower. This image shows the compact design of the YUKA Mini 500, highlighting its sleek white and black body with robust wheels, ready for autonomous lawn maintenance.

2. What's in the Box

Upon unpacking, ensure all components listed below are present and in good condition. If any items are missing or damaged, please contact customer support.

- YUKA mini 500 Robotic Lawn Mower
- Charging Station
- One Set of Blades (6 PCS)
- RTK Reference Station
- Quick Start Guide
- Power Supply
- Security Key
- Installation Kits
- RTK Extension Cable
- RTK Ground Mount

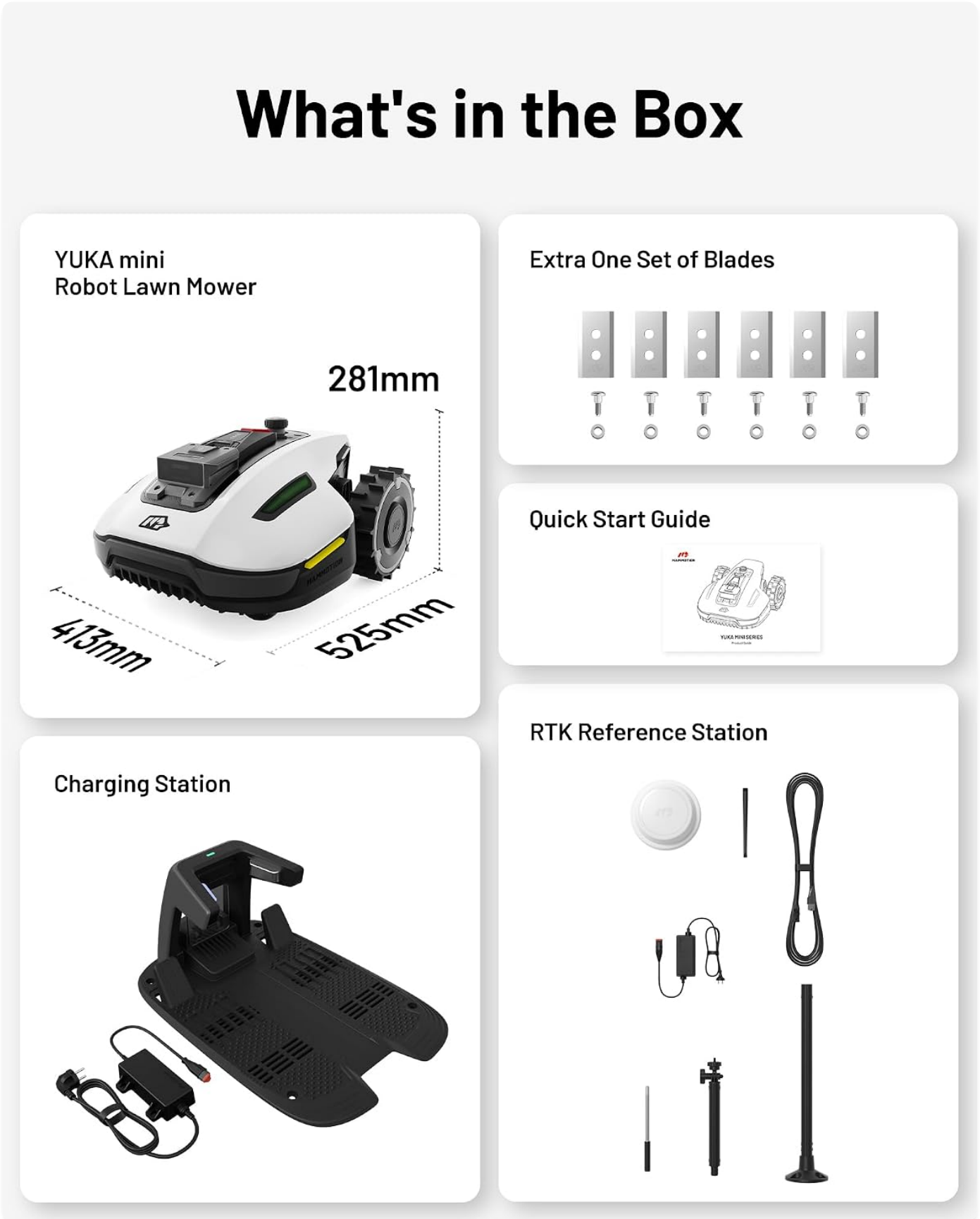


Figure 2: Package Contents. This image visually represents the items included in the YUKA Mini 500 package, showing the mower, charging station, RTK reference station, and accessories.

3. Setup

3.1 Initial Placement and Charging

Place the charging station in a suitable location with access to power and a clear view of the sky for optimal RTK signal

reception. Ensure the area around the charging station is clear of obstacles. Connect the charging station to a power outlet. The YUKA Mini 500 will automatically return to the charging station when its battery is low.

3.2 RTK Reference Station Setup

The RTK Reference Station is crucial for precise positioning. Install it in an elevated position with an unobstructed view of the sky and the mowing area. Connect it according to the Quick Start Guide. This station provides the high-precision location data for the mower.

3.3 App Installation and Auto Mapping

Download the Mammotion app from your device's app store. Follow the in-app instructions to connect your YUKA Mini 500. The mower utilizes advanced AI vision technology to create a virtual map of your lawn automatically within approximately 10 minutes. This eliminates the need for manual driving or physical perimeter wires.

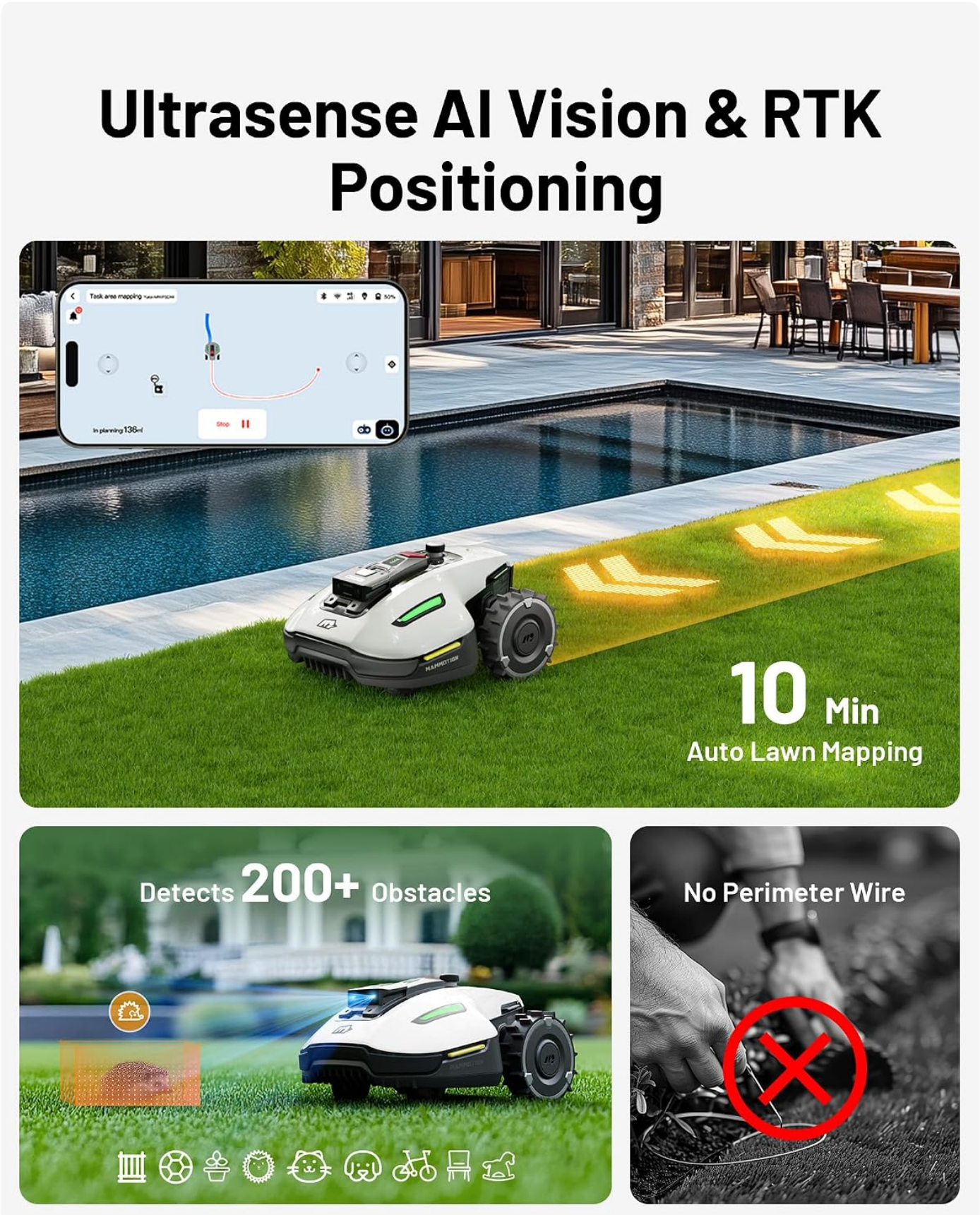


Figure 3: Ultrasense AI Vision & RTK Positioning. This image illustrates the YUKA Mini 500's ability to automatically map the lawn in 10 minutes using AI vision and RTK technology, eliminating the need for perimeter wires and detecting over 200 obstacles.

4. Operating Instructions

4.1 Mowing Zones Management

The Mammotion app allows you to manage up to 15 distinct mowing zones. You can define these zones, create seamless

pathways between them, and set customizable no-go zones (e.g., flower beds, pools) to prevent the mower from entering specific areas. This provides tailored lawn care for different sections of your yard.



Figure 4: Multi-Zone Management. This image displays an aerial view of a property divided into multiple mowing zones, illustrating how the YUKA Mini 500 can manage up to 15 distinct areas and avoid no-go zones.

4.2 Smart Route Planning and Cutting Performance

The YUKA Mini 500 employs smart route planning, allowing you to select various mowing paths via the app for optimal

coverage. It is capable of handling slopes up to 50% (27 degrees) and clearing vertical obstacles up to 1.4 inches. The adjustable cutting height ranges from 20-60mm (0.8-2.4 inches) and the floating cutting disc design ensures a consistent, carpet-like finish.



Figure 5: Strongest RWD Off-Road Capability. This image highlights the YUKA Mini 500's ability to climb slopes up to 50% and shows its 88W cutting motor and 7.5-inch cutting width, along with the flexible cutting height range.

The mower is designed for precise cutting, including narrow lanes (e.g., 35 inches wide) and cutting within 1.96 inches from walls, ensuring comprehensive coverage even in complex patio layouts.

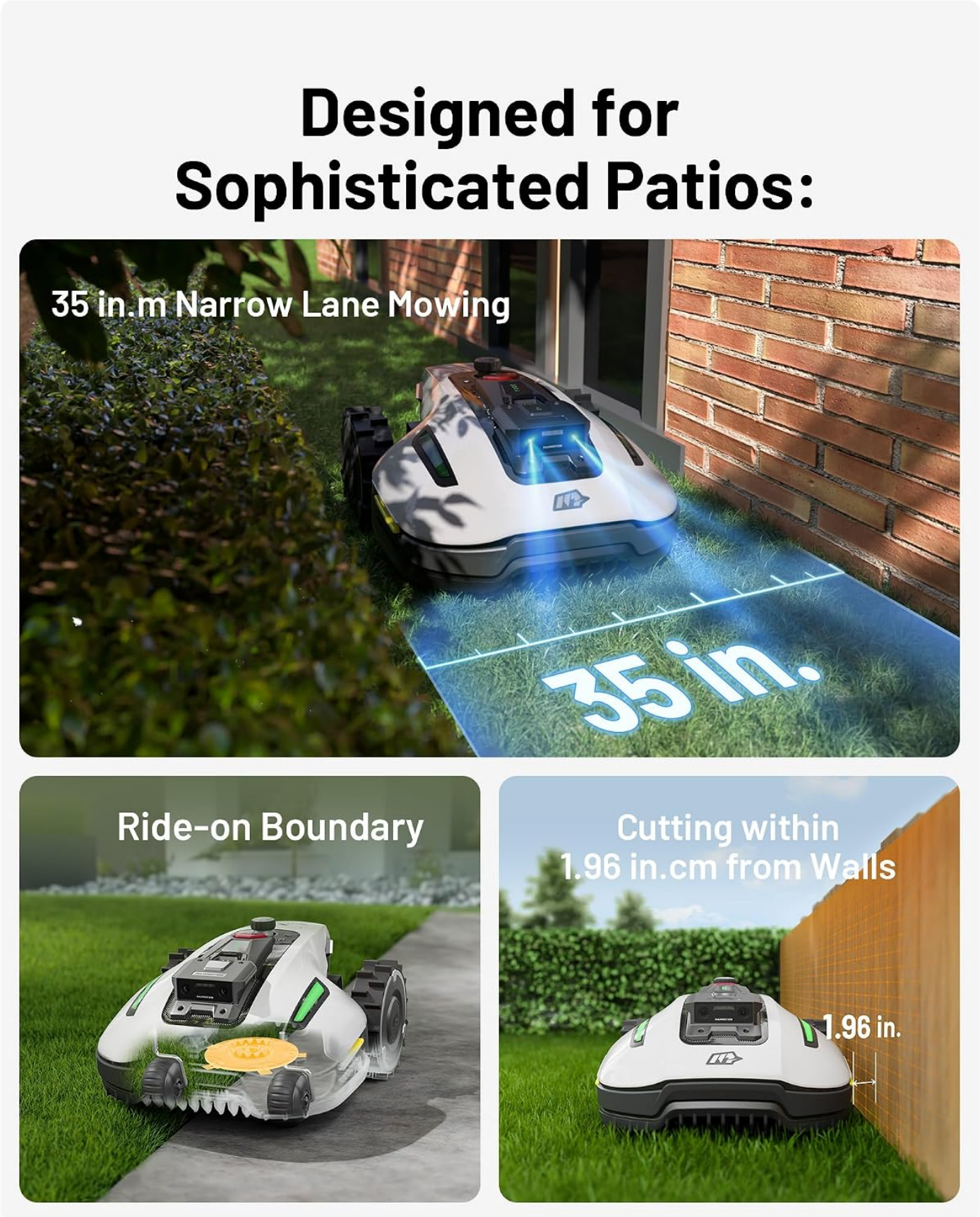


Figure 6: Designed for Sophisticated Patios. This image demonstrates the YUKA Mini 500's precision in narrow lane mowing (35 inches) and its ability to cut close to boundaries and walls (within 1.96 inches).

4.3 Anti-Theft Features

The YUKA Mini 500 includes robust anti-theft measures. It offers 24/7 monitoring with GPS tracking, app notifications for unauthorized movement, and ownership authentication for maximum security. These features help protect your investment.

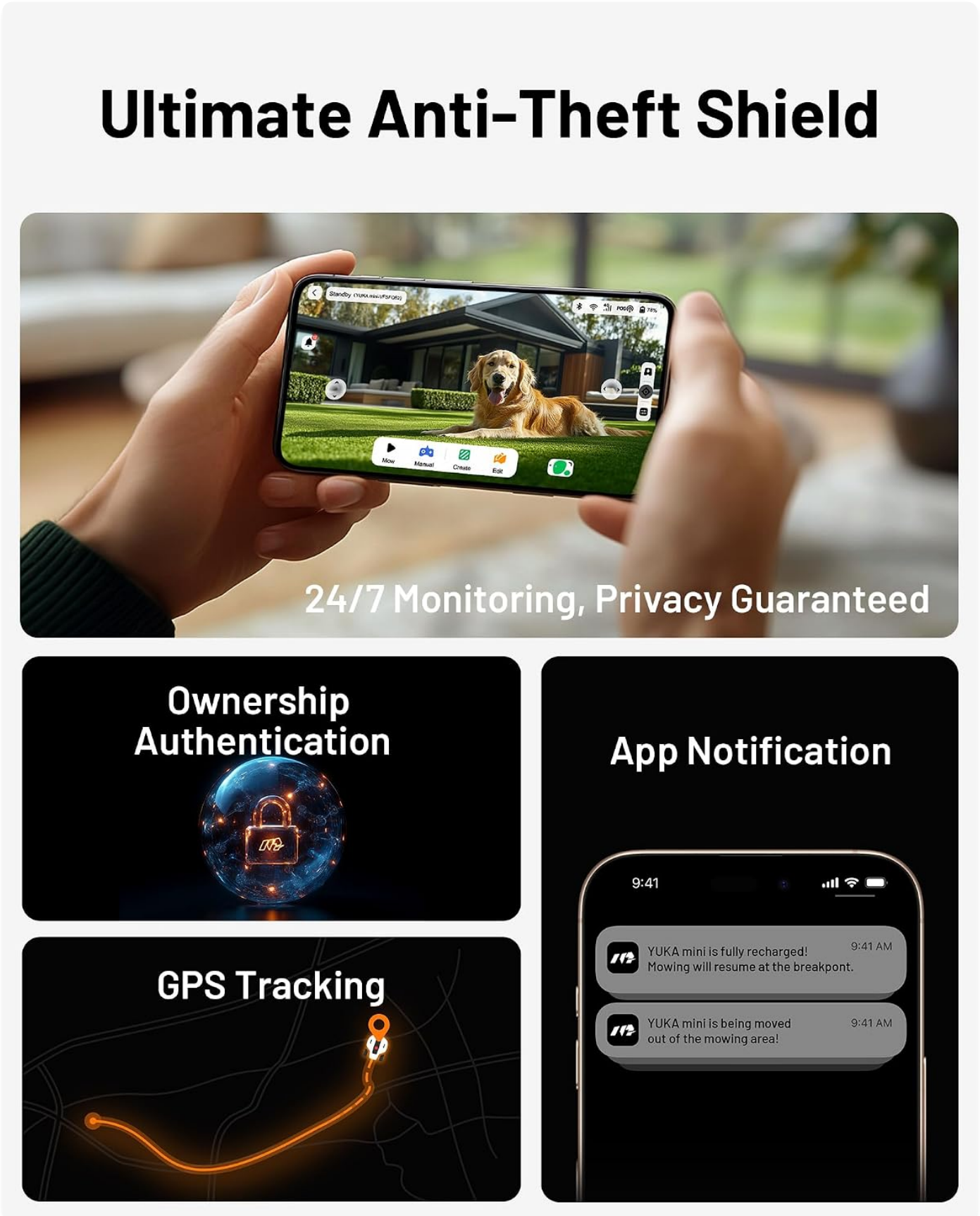


Figure 7: Ultimate Anti-Theft Shield. This image illustrates the anti-theft features including 24/7 monitoring via app, ownership authentication, app notifications, and GPS tracking.

5. Maintenance

Regular maintenance ensures optimal performance and longevity of your YUKA Mini 500.

5.1 Cleaning

The YUKA Mini 500 has an IPX6 waterproof rating, allowing for easy cleaning. Use a hose to rinse off grass clippings and dirt from the chassis and cutting deck. Avoid directing high-pressure water directly at sensitive electronic components. Ensure the mower is dry before storing or charging.

5.2 Blade Replacement

Dull blades can affect cutting quality. Regularly inspect the blades for wear and tear. Replace them as needed using the provided extra set of blades and the appropriate tools. Always ensure the mower is powered off and the security key is removed before performing any maintenance involving the blades.

5.3 Storage

During off-season or extended periods of non-use, store the YUKA Mini 500 in a dry, protected area. Ensure the battery is fully charged before storage to prolong its lifespan.

6. Troubleshooting

This section addresses common issues you might encounter with your YUKA Mini 500.

Problem	Possible Cause	Solution
Mower not starting	Low battery; Security key not inserted; Obstacle detected; Error in app.	Charge the mower; Insert security key; Clear obstacles; Check app for error messages and follow prompts.
Poor cutting quality	Dull or damaged blades; Incorrect cutting height; Uneven terrain.	Replace blades; Adjust cutting height; Ensure mowing area is suitable for robotic mower.
Mower not staying within boundaries	RTK signal interference; Mapping error; No-go zones not properly set.	Ensure RTK station has clear view; Redo mapping in the app; Verify no-go zone settings.
Mower not charging	Charging station not powered; Mower not properly docked; Dirty charging contacts.	Check power supply to charging station; Ensure mower is correctly docked; Clean charging contacts on both mower and station.

For more detailed troubleshooting, refer to the comprehensive user manual available for download or contact Mammotion customer support.

7. Specifications

Feature	Detail
Model	YUKA mini 500
Brand	Mammotion
Power Source	Battery Powered (Nonstandard Battery included)
Material	Plastic
Item Weight	23 Pounds (approx. 10.43 kg)

Feature	Detail
Product Dimensions (L x W x H)	20.7"D x 16.3"W x 11.1"H (approx. 52.5cm x 41.4cm x 28.1cm)
Cutting Width	7.5 Inches (approx. 19 cm)
Adjustable Cutting Height	0.8 - 2.4 Inches (20 - 60 mm)
Operation Mode	Automatic
Max Slope Capability	50% (approx. 27 degrees)
Waterproof Rating	IPX6
Mowing Area Capacity	Up to 0.12 Acre (approx. 500 sq meters)
Mowing Zones	Up to 15 zones

8. Warranty and Support

Mammotion offers comprehensive support for your YUKA Mini 500 Robotic Lawn Mower.

8.1 Warranty Information

The YUKA Mini 500 comes with a **3-year warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the official Mammotion website or the full user manual.

8.2 Customer Service

For any questions, technical assistance, or warranty claims, Mammotion provides 24/7 after-sales service. You can reach support via:

- Email support
- Live Chat
- Phone Call

Please visit the official Mammotion website for contact details and further support resources.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question