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LUBA mini AWD 1500 Robot Lawn Mower Instruction Manual

Model: LUBA mini AWD 1500 | Brand: Mammotion

1. PRODUCT OVERVIEW

The Mammotion LUBA mini AWD 1500 is an advanced robotic lawn mower designed for efficient and autonomous lawn care. It features all-wheel-drive for superior terrain navigation, UltraSense AI Vision with RTK for precise mapping and obstacle avoidance, and 4G connectivity for remote management. This manual provides essential information for the safe and effective operation and maintenance of your LUBA mini AWD 1500.



Image: The Mam motion LUBA mini AWD 1500 robot lawn mower, showcasing its compact design and all-wheel-drive system.

Key Features:

- **Unparalleled Off-Road Capability:** Equipped with powerful obstacle-crossing capabilities and an adaptive suspension system, allowing smooth traversal of steep slopes (up to 80%), potholes, rough terrain, or tall and thick grass.
- **Smart Features for Effortless Lawn Care:** Combines UltraSense AI Vision with RTK navigation for precise mowing, even under trees without direct satellite signals. Features visual positioning for accurate lawn and boundary recognition.
- **Intelligent Visual Fence & Obstacle Avoidance:** Automatically detects invisible boundaries to stay within designated lawn areas and identifies over 200 objects for appropriate avoidance strategies.
- **Customizable Mowing:** Offers 4G/Bluetooth/WIFI connectivity for remote control via the Mam motion app. Supports various mowing patterns like Parallel, Checkboard, and Diamond Grid, and 3D lawn printing technology for customized designs.
- **Multi-zone Management:** Capable of managing up to 20 mowing areas, including front/back yards, roadsides, and no-go zones (e.g., pools, flower beds). Optimizes mowing paths for efficiency.
- **Anti-Theft Features:** Includes GPS tracking, ownership authentication, geofence alarms, and app notifications for enhanced security.

2. SETUP AND INSTALLATION

2.1 Unboxing and Initial Charge

Carefully remove all components from the packaging. Before first use, ensure the LUBA mini is fully charged. Connect the charging station to a power outlet and place the mower on the station. The indicator lights will confirm charging status.

2.2 App Installation and Connection

Download the Mammotion app from your device's app store. Follow the in-app instructions to pair your LUBA mini with your smartphone via Bluetooth or Wi-Fi. This app is essential for controlling and managing your mower.

2.3 Lawn Mapping and Zone Setup

The LUBA mini utilizes UltraSense AI Vision and RTK for automatic mapping. Drive the mower manually or use the app to guide it around the perimeter of your lawn to create a precise map. Define mowing zones and no-go zones (e.g., flower beds, pools) within the app. The system can manage up to 20 distinct mowing areas.

Auto Mapping without Manual Operation



Image: The LUBA mini robot mower automatically mapping a lawn area, illustrating the auto-mapping feature without manual operation.

Management of Up to 20 Mowing Zones

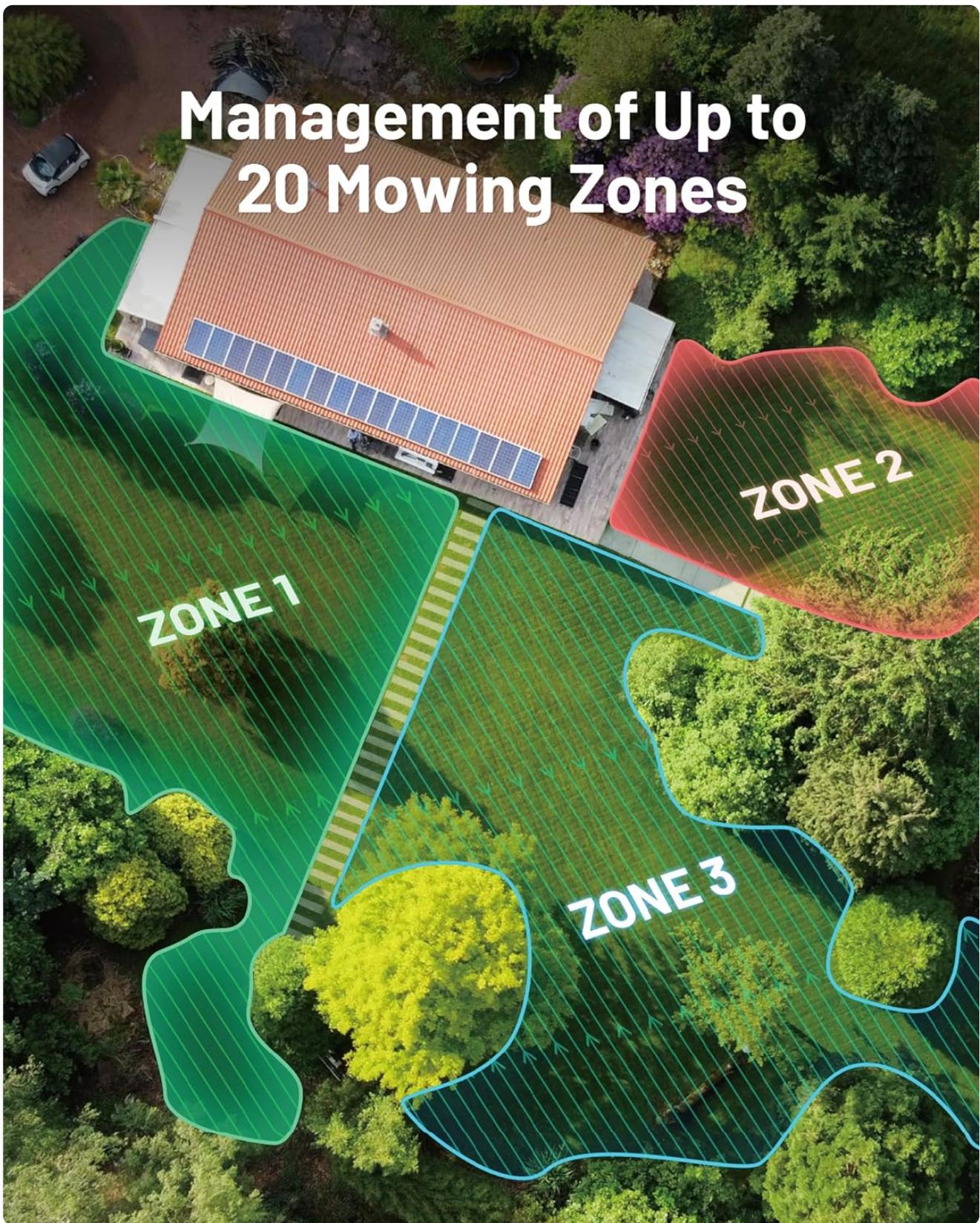


Image: An aerial view demonstrating the multi-zone management capability of the LUBA mini, showing different designated mowing zones.

3. OPERATING INSTRUCTIONS

3.1 Starting a Mowing Task

Initiate mowing tasks directly from the Mammotion app. Select the desired mowing zone(s) and choose a mowing pattern (e.g., Parallel, Checkboard, Diamond Grid). The mower will automatically begin its operation.

3.2 Adjusting Cutting Height

The cutting height can be adjusted within the app, ranging from 0.8 inches to 2.6 inches (2.03 cm to 6.6 cm). Adjust the height according to your lawn's needs and grass type.



Image: Illustration showing the adjustable cutting height range of the LUBA mini, from 0.8 to 2.6 inches.

3.3 Obstacle Avoidance and Edge Cutting

The UltraSense AI Vision system enables the LUBA mini to detect and avoid obstacles in its path. It also performs zero-distance edge cutting, allowing it to mow very close to boundaries and obstacles, minimizing the need for manual trimming.

Zero-distance Edge Cutting

Cutting near walls can be done to less than 2.0 in.

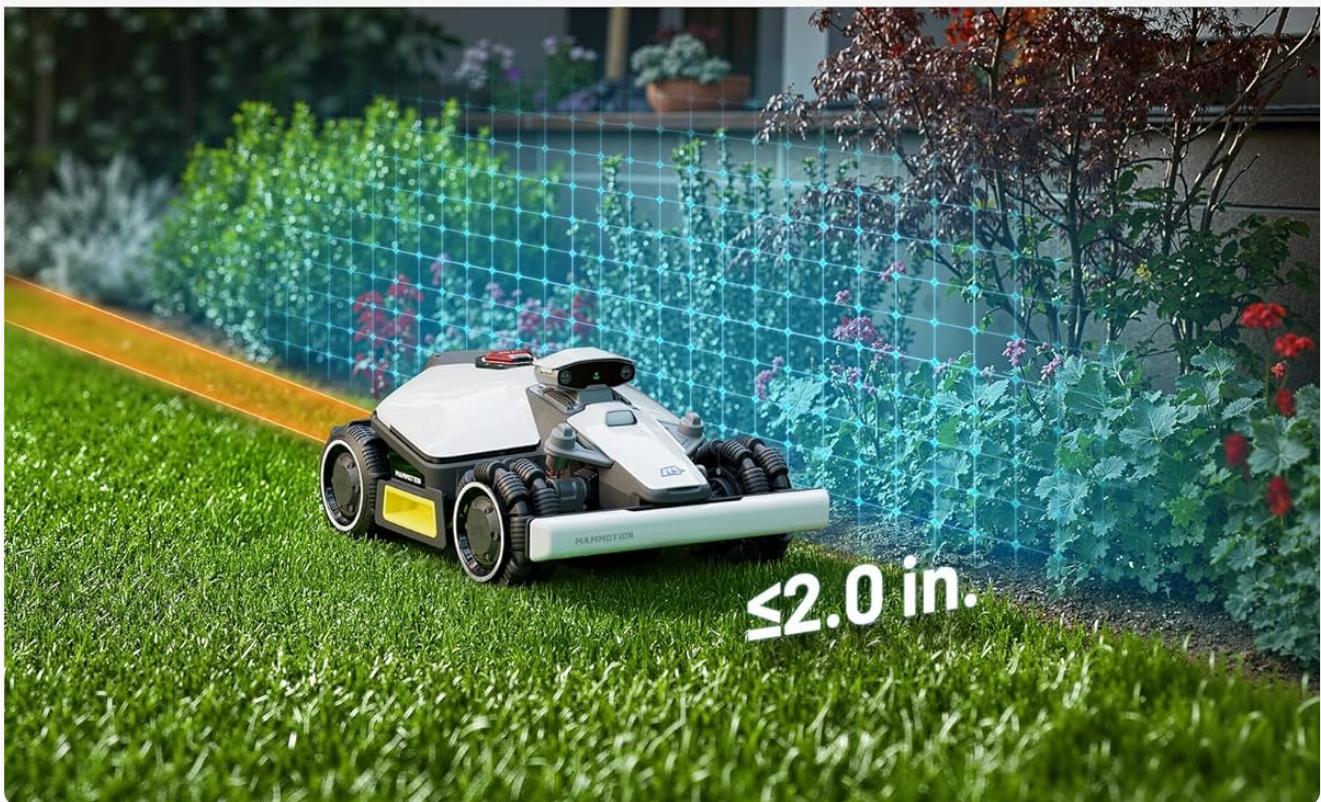
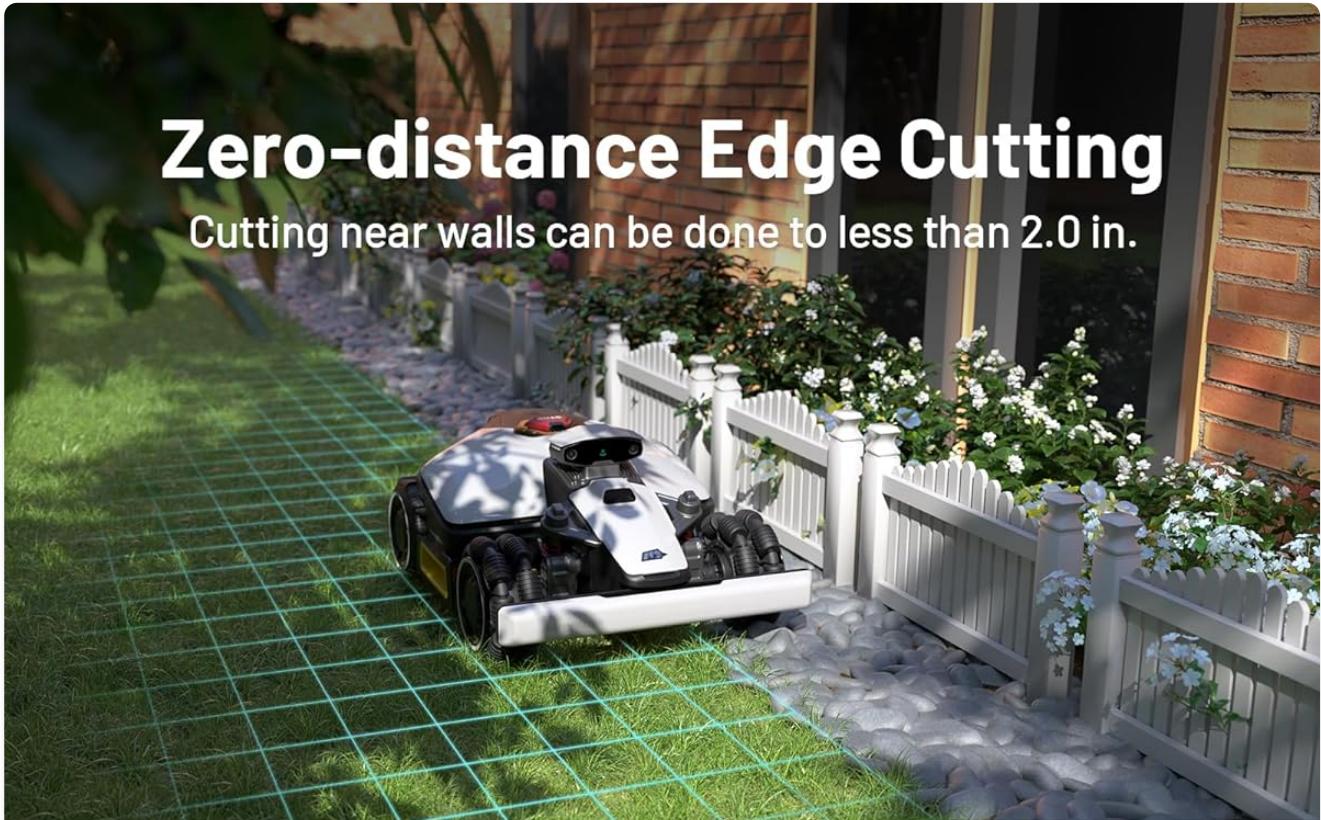


Image: The LUBA mini performing zero-distance edge cutting near a wall, demonstrating its ability to mow close to boundaries.

3.4 Auto-Recharge Functionality

When the battery level is low, the LUBA mini will autonomously return to its charging station. Once fully charged, it will resume mowing from where it left off, ensuring continuous lawn care.

3D Lawn Printing, Your Lawn's "Tattoo"



Image: The LUBA mini returning to its charging station when battery is low, and a diagram showing its mowing path after resuming.

4. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your LUBA mini.

4.1 Cleaning

- Periodically clean the underside of the mower to remove grass clippings and debris. Use a brush or damp cloth.
- Ensure sensors and cameras are clean and free from obstructions for accurate navigation and obstacle detection.
- Do not use high-pressure water jets directly on the mower.

4.2 Blade Inspection and Replacement

- Regularly inspect the cutting blades for wear or damage. Dull or damaged blades can affect cutting quality.
- Replace blades as needed. Refer to the product packaging or Mammotion's official website for compatible replacement blades and detailed instructions.

88W Cutting Motors

Mow up to 0.06 Acre/charge

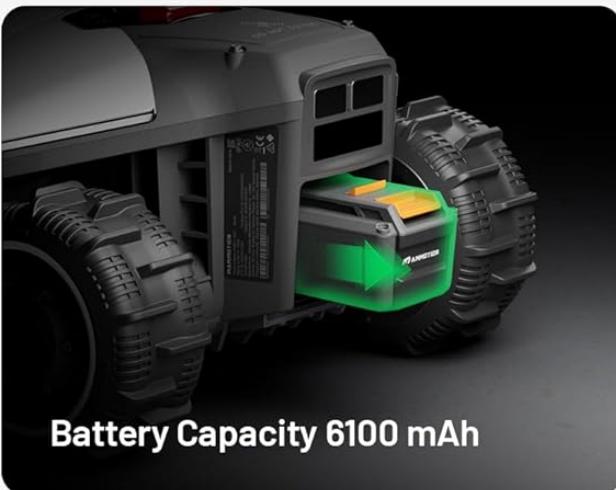


Image: Internal view of the LUBA mini's 88W cutting motors and blade system, highlighting the six razor-like blades.

4.3 Battery Care

- Store the mower in a dry, protected area when not in use, especially during off-season.
- For long-term storage, ensure the battery is partially charged (around 50%) and store in a cool, dry place.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your LUBA mini.

Problem	Possible Cause	Solution
Mower not starting/responding	Low battery; App connection issue; Emergency stop engaged.	Charge the mower; Reconnect via app; Disengage emergency stop button.
Poor mowing performance	Dull/damaged blades; Excessive grass height; Clogged cutting deck.	Replace blades; Mow more frequently or adjust cutting height; Clean the cutting deck.
Mower getting stuck frequently	Rough terrain; Large obstacles; Steep slopes beyond capability.	Clear obstacles; Adjust no-go zones; Ensure terrain is within specified slope limits (80%).
App connectivity issues	Weak Wi-Fi/Bluetooth signal; App outdated; Mower firmware outdated.	Move closer to mower/router; Update app; Check for firmware updates in app.
GPS/RTK signal loss	Dense tree cover; Tall buildings; RTK station obstruction.	LUBA mini's UltraSense AI Vision can operate without satellite signals for up to 300 meters. Ensure RTK station has clear sky view.

For further assistance, please contact Mammotion customer support.

6. SPECIFICATIONS

Attribute	Detail
Brand	Mammotion
Model Number	LUBA mini AWD 1500
Power Source	Battery Powered (1 Lithium Ion battery included)
Material	Plastic
Color	White
Cutting Width	7.9 Inches
Adjustable Cutting Height	0.8" - 2.6" (2.03 cm - 6.6 cm)
Operation Mode	Automatic
Product Dimensions (D x W x H)	23" x 11.1" x 16.9"
Maximum Mowing Area	Up to 0.37 Acre (1500 m ²)
Slope Capability	Up to 80% (38.6°)

7. WARRANTY AND SUPPORT

Mammotion offers comprehensive after-sales support for your LUBA mini AWD 1500.

7.1 Warranty Information

The product comes with a standard manufacturer's warranty. For detailed terms and conditions, please refer to the warranty card included with your product or visit the official Mammotion website. Extended protection plans may also be available for purchase.

7.2 Customer Support

Mammotion provides 24/7 after-sales service. If you have any questions, require technical assistance, or need to report an issue, please contact us through the following channels:

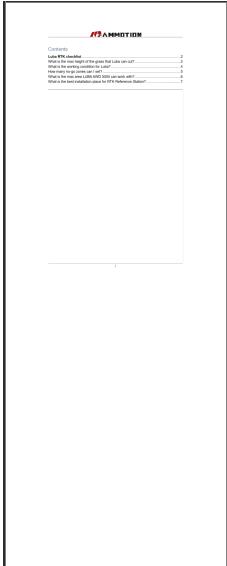
- **Email:** Refer to your product documentation or the Mammotion website for the support email address.
- **Live Chat:** Available on the official Mammotion website.
- **Phone:** Refer to your product documentation or the Mammotion website for the support phone number.

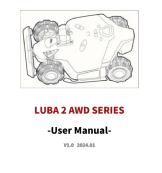
Please have your product model number (LUBA mini AWD 1500) and purchase details ready when contacting support.

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For the latest information and updates, please visit www.mammotion.com

Related Documents - LUBA mini AWD 1500

	<p><u>MAMMOTION Luba RTK Robot Lawn Mower: FAQs and Installation Guide</u></p> <p>A comprehensive guide to MAMMOTION Luba RTK robot lawn mowers, covering essential information such as cutting height, working conditions, no-go zones, maximum working area for the AWD 5000 model, and optimal installation locations for the RTK Reference Station. Includes a checklist for purchasing.</p>
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 <p>Original Instructions LUBA Robotic Lawn Mower — User Manual V1.2 —</p>	<p>MAMMOTION LUBA Robotic Lawn Mower User Manual V1.2</p> <p>Comprehensive user manual for the MAMMOTION LUBA Robotic Lawn Mower (V1.2), detailing installation, operation, safety, maintenance, and app usage for this RTK GNSS-enabled, virtual-mapping robotic mower.</p>
 <p>Original Instructions LUBA Robotic Lawn Mower — User Manual V1.2 —</p>	<p>MAMMOTION LUBA Robotic Lawn Mower User Manual</p> <p>Comprehensive user manual for the MAMMOTION LUBA Robotic Lawn Mower, covering safety instructions, installation, operation, maintenance, and specifications. Learn how to set up and use your 4WD robotic lawn mower for efficient lawn care.</p>
 <p>Original Instructions LUBA 2 AWD SERIES — User Manual — V1.0 2024.05</p>	<p>Mammotion Luba 2 AWD Series User Manual</p> <p>Comprehensive user manual for the Mammotion Luba 2 AWD Series robotic lawn mower, covering safety instructions, installation, operation, product specifications, and troubleshooting.</p>
 <p>USER MANUAL LUBA mini AWD Original Instructions Version 001.00 2023.05</p>	<p>Mammotion LUBA mini AWD User Manual: Setup, Operation, and Maintenance</p> <p>Comprehensive user manual for the Mammotion LUBA mini AWD robotic lawn mower. Learn about installation, operation, safety, maintenance, and product specifications for efficient lawn care.</p>
 <p>USER MANUAL LUBA mini AWD Original Instructions Version 001.00 2023.05</p>	<p>Mammotion LUBA mini AWD User Manual</p> <p>Comprehensive user manual for the Mammotion LUBA mini AWD robotic lawn mower, covering safety instructions, installation, operation, maintenance, and technical specifications.</p>