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> LUBA mini AWD 800 Robot Lawn Mower with 4G for 0.2 Acre, All-Wheel-Drive for 80% Slope, No Perimeter Wire, UltraSense AI Vision+RTK Auto-Mapping, Cutting Height 0.8"-2.6"

Mammotion LUBA mini AWD 800

LUBA mini AWD 800 Robot Lawn Mower User Manual

Model: LUBA mini AWD 800

INTRODUCTION

The Mammotion LUBA mini AWD 800 is an advanced robotic lawn mower designed for efficient and autonomous lawn care. Featuring All-Wheel-Drive (AWD) for superior terrain navigation, UltraSense AI Vision, and RTK auto-mapping, it eliminates the need for perimeter wires. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your LUBA mini AWD 800.



The LUBA mini AWD 800 robot lawn mower, its charging station, and a smartphone displaying the control app.

SETUP

Setting up your LUBA mini AWD 800 involves positioning the RTK reference station and defining your mowing zones through the Mammoth app. The UltraSense AI Vision and RTK navigation system enable precise auto-mapping without manual operation, simplifying the initial setup process.

RTK Reference Station Placement

Ensure the RTK reference station is placed in an open area with a clear view of the sky to receive optimal satellite signals. Proper placement is crucial for the mower's precise positioning and mapping capabilities.

Auto-Mapping and Zone Management

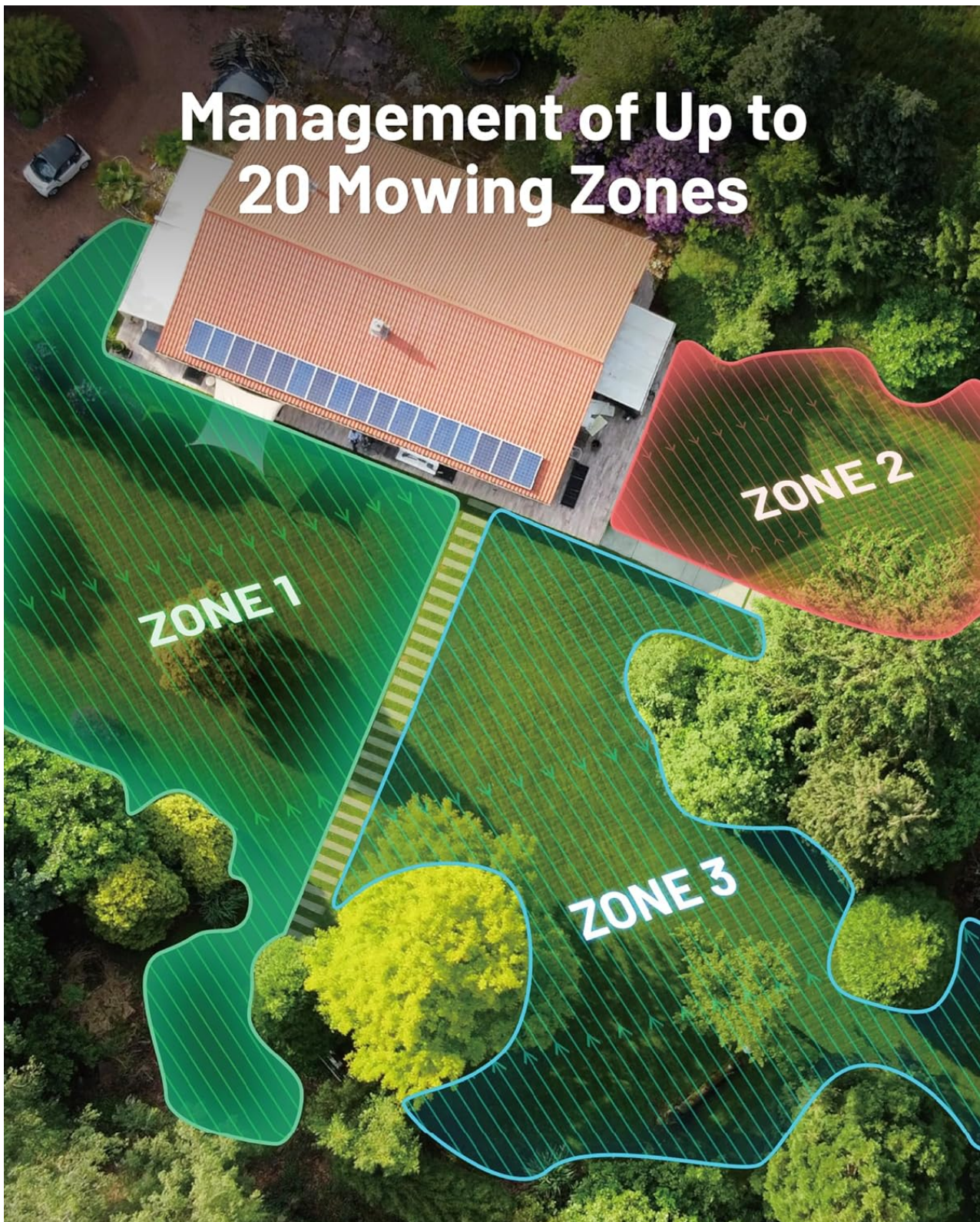
The LUBA mini AWD 800 supports auto-mapping for areas up to 0.37 acres, completed efficiently through the app. You can easily manage up to 20 mowing areas, including front and back yards, roadsides, and define no-go zones like pools and flower beds. The system automatically optimizes mowing paths for efficiency.

Auto Mapping without Manual Operation



The LUBA mini AWD 800 performing auto-mapping around a pool area.

Management of Up to 20 Mowing Zones



An aerial view illustrating the management of multiple mowing zones with the LUBA mini AWD 800.

OPERATING INSTRUCTIONS

The LUBA mini AWD 800 is designed for effortless and intelligent lawn care, offering various features to optimize mowing performance.

Terrain Navigation and Obstacle Avoidance

Equipped with All-Wheel-Drive and an adaptive suspension system, the LUBA mini can smoothly traverse steep slopes (up to 80%), potholes, rough terrain, and tall grass. Its UltraSense AI Vision system, combined with RTK

navigation, ensures mowing even under trees without satellite signals. It precisely recognizes lawns and boundaries for zero-distance edge cutting and intelligently avoids over 200 objects.

Unmatched Off-Road Capacity

35% ↑

Better climbing ability
Compared with competitors



80% Slope



Adaptive Suspension System



Bumper



Zero-turn Technology

The LUBA mini AWD 800 demonstrating its ability to navigate steep slopes.

Beyond Positioning

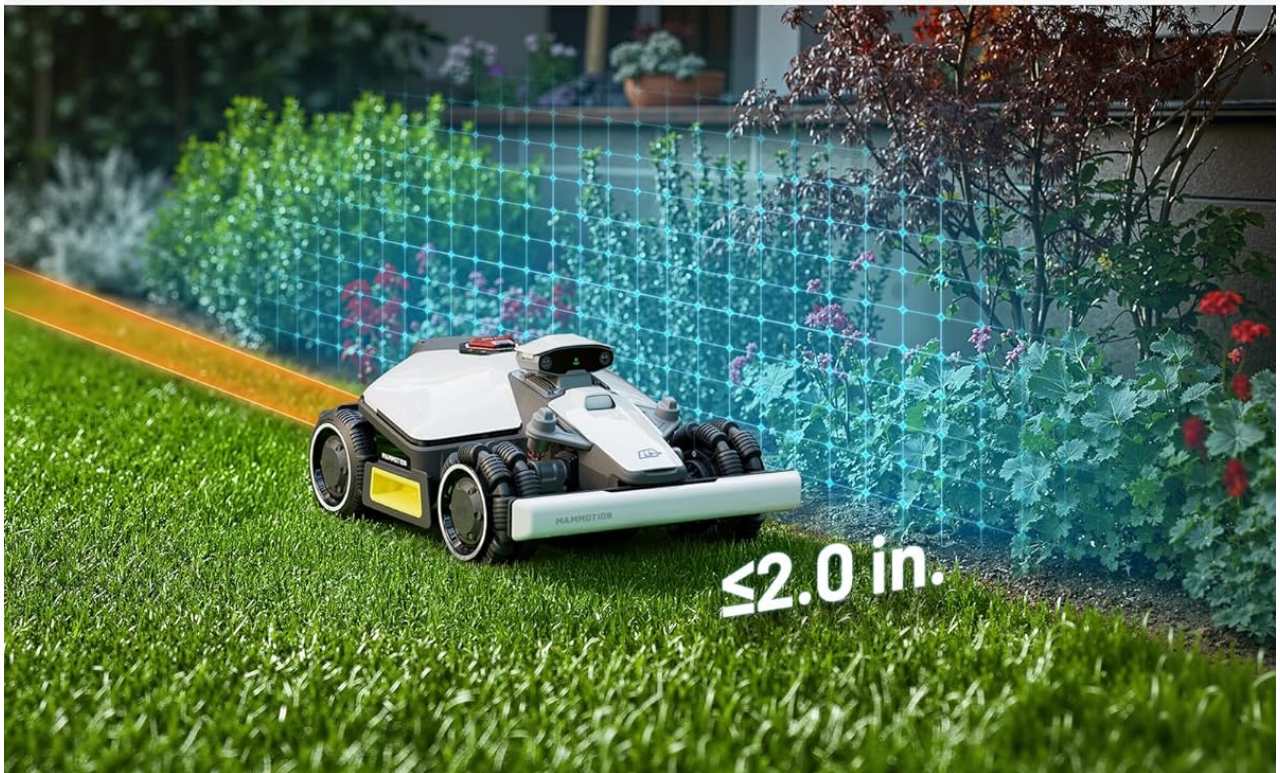
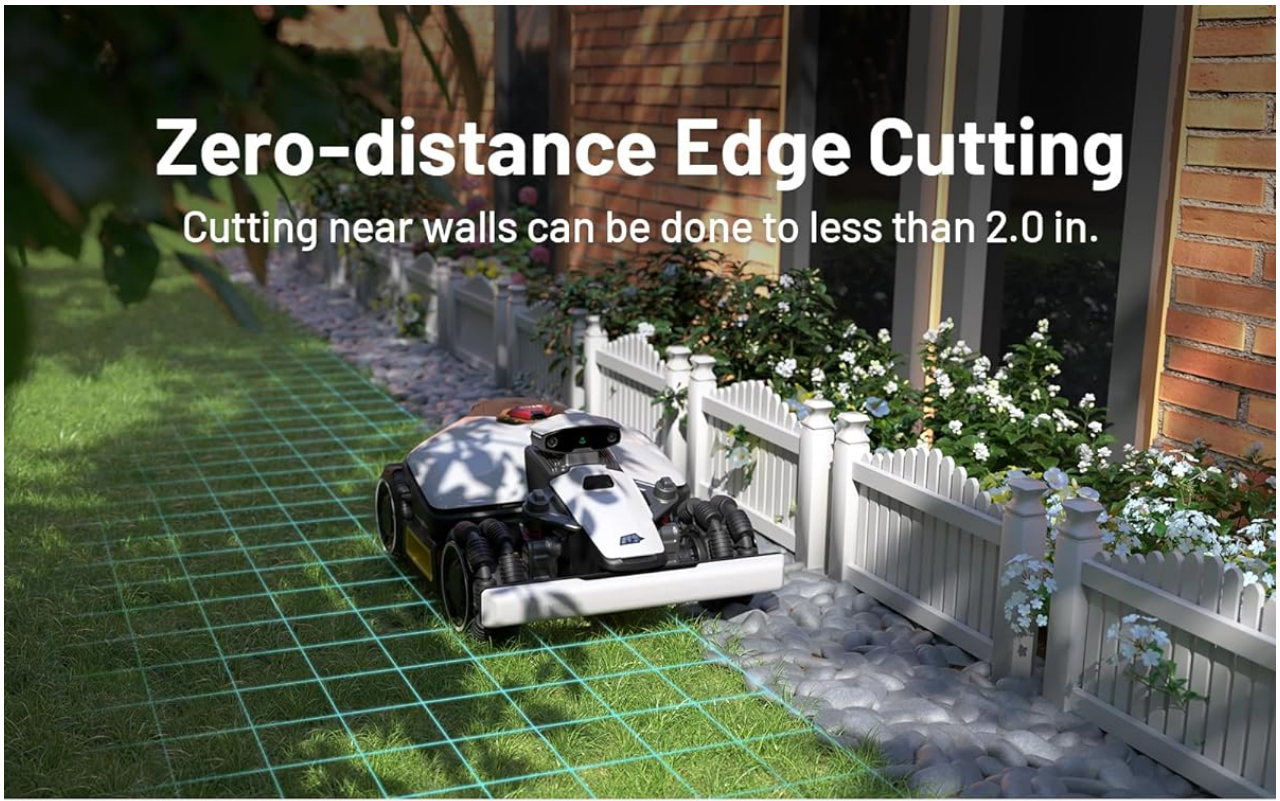
UltraSense AI Vision Delivers More



The mower utilizing UltraSense AI Vision for precise navigation and object identification.

Zero-distance Edge Cutting

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

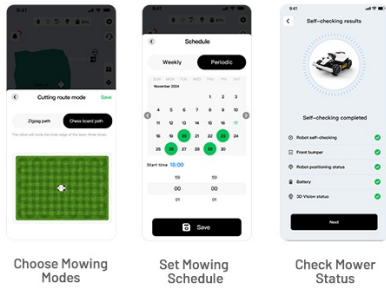


The LUBA mini AWD 800 executing zero-distance edge cutting.

Custom Mowing and Connectivity

Through the Mammotion app, you can conveniently track LUBA's status and select different mowing patterns, including Parallel, Checkboard, and Diamond Grid. The 3D lawn printing technology adjusts mowing routes, cutting height, and angle to create desired patterns. Connectivity options include 4G, Bluetooth, and Wi-Fi.

Mow Exactly the Way You Want



The Mammotion app allows selection of mowing modes, scheduling, and checking mower status.

Cutting System

The mower is equipped with an 88W blade motor and zero-turn design omni-wheels, maximizing mowing efficiency. It features a cutting width of up to 7.9 inches and adjustable cutting heights from 0.8 to 2.6 inches.

88W Cutting Motors Mow up to 0.04 Acre/charge



6

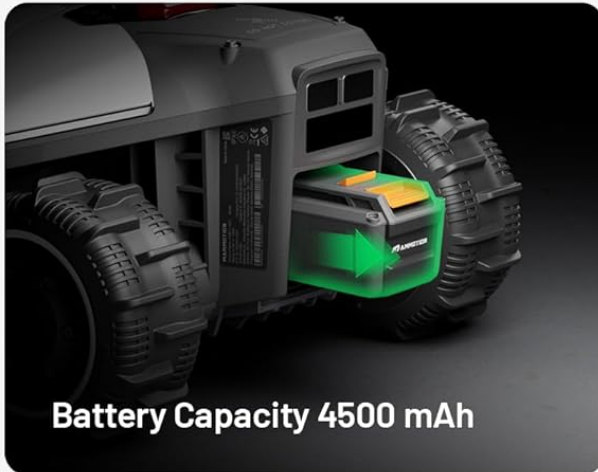
More blades

120 mins

Mowing time per charge

4.5 Ah

Larger battery capacity



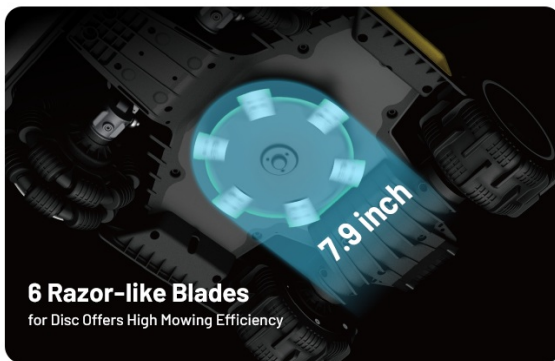
Battery Capacity 4500 mAh



Cutting Width 7.9 inch

Illustration of the 88W cutting motors and cutting width.

High Efficiency Cutting System



Cutting Height



Details on the high-efficiency cutting system and adjustable cutting height.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your LUBA mini AWD 800. Keep the cutting deck and wheels free from grass clippings and debris. Periodically inspect the blades for wear and replace them as needed. Ensure the charging contacts are clean for reliable recharging. Store the mower in a dry, protected area when not in use, especially during off-season periods.

Battery Care

The LUBA mini AWD 800 features an auto-recharge function, returning to its charging station when the battery level is low. It provides up to 120 minutes of mowing time per charge. For optimal battery life, avoid prolonged storage with a completely depleted battery.

Auto-recharge & Powerful Lithium Battery



The mower's auto-recharge capability and mowing duration per charge.

TROUBLESHOOTING

If you encounter issues with your LUBA mini AWD 800, consider the following common troubleshooting steps:

- **Connectivity Issues:** Ensure your mower, RTK station, and smartphone are within range of your Wi-Fi network or have strong 4G signal. Restarting the app or the mower can often resolve temporary connection problems.
- **Mapping Accuracy:** If mapping seems inaccurate, verify that the RTK station has an unobstructed view of

the sky. Environmental factors or physical obstructions can interfere with satellite signals.

- **Mowing Performance:** Check the cutting blades for sharpness and ensure the cutting deck is clear of excessive grass buildup. Adjust the cutting height as needed for different grass types or conditions.
- **Obstacle Avoidance:** While the AI Vision is robust, ensure the mower's camera is clean and unobstructed. Large, unexpected objects may still require manual intervention.
- **Anti-Theft Features:** If the mower exceeds designated zones, you will receive an app notification. Utilize the GPS tracking feature to locate the mower if it is moved without authorization.

For persistent issues, refer to the detailed troubleshooting guide available in the Mammotion app or contact customer support.

SPECIFICATIONS

Feature	Detail
Brand	Mammotion
Power Source	Battery Powered
Material	Plastic
Color	white
Style	Cut Height 0.8"-2.6"
Cutting Width	7.9 Inches
Operation Mode	Automatic
Product Dimensions	23"D x 16.9"W x 11.1"H
Manufacturer	Mammotion
ASIN	B0FCY44GYQ
Country of Origin	China
Item model number	LUBA mini AWD 800
Batteries	1 Lithium Ion batteries required. (included)

WARRANTY AND SUPPORT

Mammotion offers a 3-year warranty for the LUBA mini AWD 800. We provide 24/7 after-sales service to address any questions or concerns you may have. Please feel free to contact us for support.

Additionally, the LUBA mini includes anti-theft features such as GPS tracking and a "lost" feature that prevents unauthorized use. Users receive app notifications if the mower exceeds designated mowing zones, providing peace of mind.