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> Mammotion LUBA mini 2 AWD 1500H Robot Lawn Mower User Manual

## Mammotion LUBA mini 2 1500H

# Mammotion LUBA mini 2 AWD 1500H Robot Lawn Mower User Manual

Model: LUBA mini 2 1500H

## 1. PRODUCT OVERVIEW

The Mammotion LUBA mini 2 AWD 1500H is an advanced robotic lawn mower designed for efficient and autonomous lawn maintenance. It features 360° LiDAR and dual-camera AI vision for precise navigation and obstacle detection, all-wheel-drive for handling slopes up to 80%, and smart battery management for optimized performance.



Image: The Mammotion LUBA mini 2 AWD 1500H robot lawn mower.

## Key Features:

- **360° LiDAR + Dual-Camera AI Vision:** Provides comprehensive environmental awareness, improving obstacle detection and navigation precision.
- **Dual Cutting Discs:** Includes a main cutting disc with automatic height adjustment (2.2"-4.0") and a dedicated edge cutting disc for clean borders.
- **All-Wheel-Drive (AWD):** Equipped with two independent 88W motors, enabling climbing on slopes up to 80% (38.6°) and smooth pivoting.
- **DropMow Mode:** Allows for immediate mowing without prior mapping, ideal for temporary tasks.
- **Multi-Zone Management:** Capable of managing up to 20 independent mowing zones for lawns up to 0.37 acres.
- **Smart Battery Management:** Features custom charge limits and off-peak charging options to extend battery life and reduce energy costs.
- **4G Module:** Includes a free 4G module with 3-year traffic for enhanced connectivity and location tracking.

## 2. SETUP GUIDE

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### 2.1 Unboxing and Package Contents

Carefully unpack all components from the box. Ensure all items listed below are present.

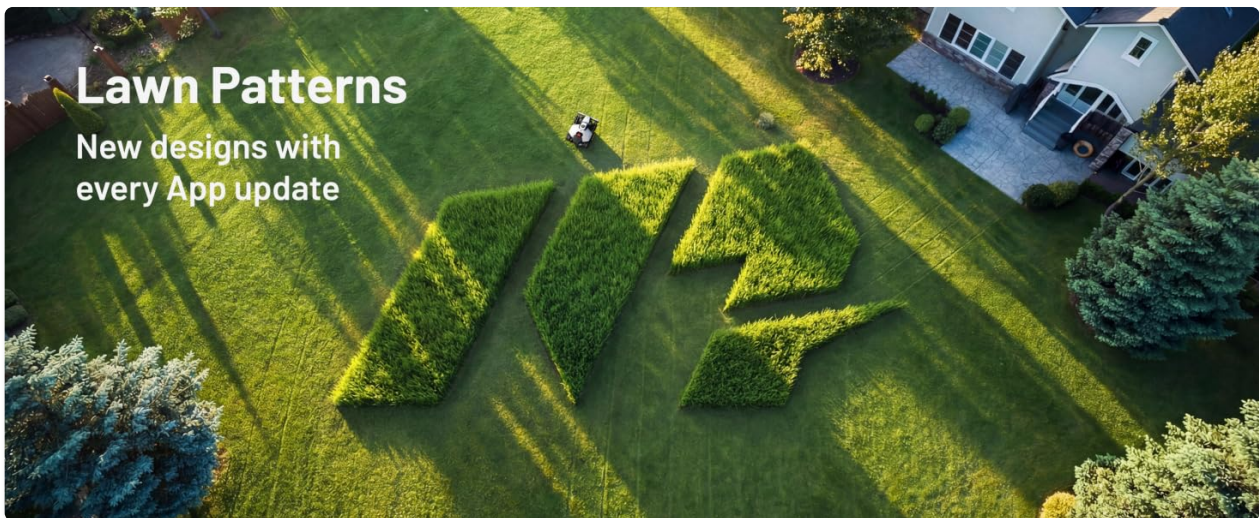


Image: Contents of the Mammotion LUBA mini 2 AWD 1500H package, including the mower, charging station, spare blades, and other accessories.

The package includes:

- LUBA mini 2 1500H Robot Lawn Mower (x1)
- Charging Station (x1)
- Set of Blades (12 PCS)
- Other Accessories (e.g., power adapter, stakes)
- Product Guide

### 2.2 Charging Station Placement

Select a suitable location for the charging station. It should be on a flat surface, preferably in a shaded area, with access to a power outlet. Ensure there is enough clear space around the station for the mower to dock easily.

## 2.3 Initial Charging

Place the LUBA mini 2 onto the charging station. The mower will begin charging automatically. Allow the mower to fully charge before its first operation. The Mammotion app will indicate the charging status.

## 2.4 App Installation and Initial Setup

Download the Mammotion app from your device's app store. Follow the in-app instructions to connect your LUBA mini 2. This process typically involves:

- Creating an account.
- Pairing the mower via Bluetooth or Wi-Fi.
- Performing initial self-checks and firmware updates.

## 2.5 Mapping Your Lawn

The LUBA mini 2 uses 360° LiDAR and dual-camera AI vision for mapping. Use the Mammotion app to create a map of your lawn. This involves guiding the mower around the perimeter of your mowing areas and defining no-go zones or obstacles. The system is designed for wire-free operation, eliminating the need for physical boundary wires.



*Image: The LUBA mini 2 utilizing its 360° panoramic sensing to map a lawn, showing its range and angle capabilities.*

# 3. OPERATING INSTRUCTIONS

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## 3.1 Starting a Mowing Task

Once your lawn is mapped, you can initiate mowing tasks through the Mammotion app. Select the desired mowing zone(s) and schedule. The mower will automatically depart from its charging station, perform the task, and return when complete or when the battery is low.

Your browser does not support the video tag.

*Video: Demonstrates how to initiate and manage mowing tasks, turning your lawn care into auto mode.*

### 3.2 DropMow Mode

For quick, one-time mowing jobs in unmapped areas, use DropMow Mode. Simply place the mower in the desired location and press the "Mow & Start" button. The mower will operate based on its current orientation without saving a temporary map. This is useful for small, isolated patches of grass.

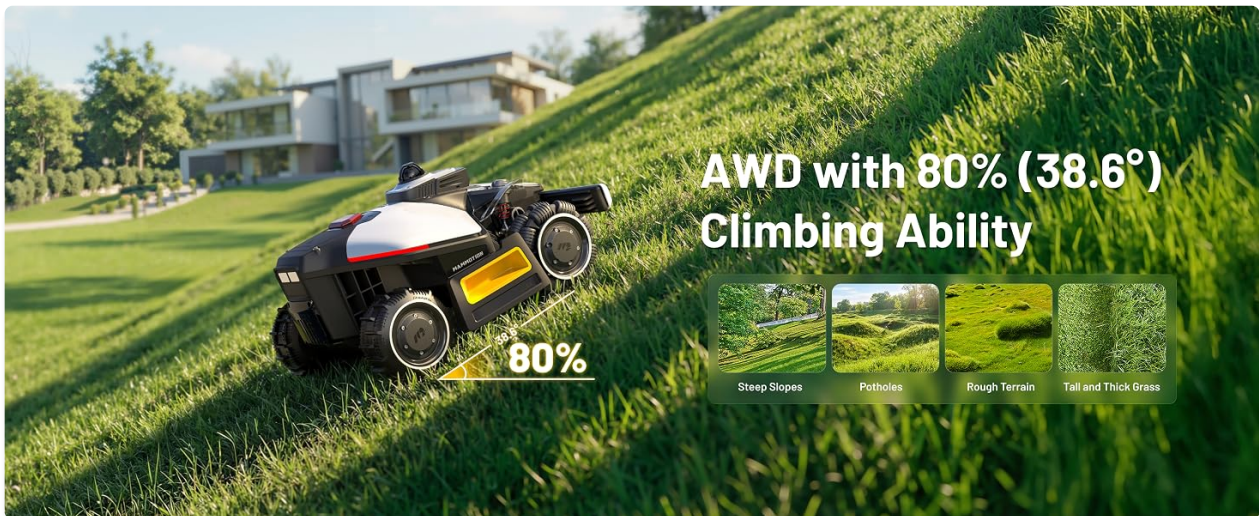


Image: The LUBA mini 2 being used in DropMow mode, ready to mow directly from its packaging without prior mapping.

### 3.3 Adjusting Cutting Height

The LUBA mini 2 features automatic cutting height adjustment. You can change the blade height (from 2.2" to 4.0") directly through the Mammotion app to suit different grass types or seasonal requirements.

#### 4.7" Fixed Edger Disc - Perfect Edges, Less Hand Trimming

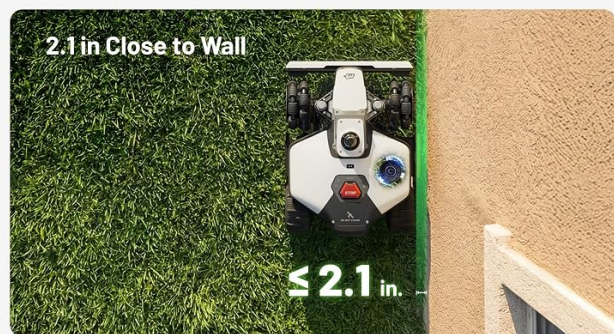


Image: Illustration of the main cutting disc and its automatic height adjustment feature, showing various cutting height options.

### 3.4 Obstacle Detection and Safety

The mower uses 360° LiDAR and dual-camera AI vision for advanced obstacle detection. It identifies objects and adjusts its path to avoid collisions. For safety, always ensure children and pets are clear of the mowing area during operation.

## 360° LiDAR Reliable in Any Condition

-Under Trees, Narrow Paths, or Night



*Image: The LUBA mini 2 detecting obstacles like a child and a dog using its dual-camera AI vision, demonstrating enhanced safety.*

### 3.5 Smart Battery Management

The mower's smart battery system allows you to set custom charge limits (e.g., 80%) to prolong battery health. It will only charge to 100% before a scheduled task. Off-peak charging can also be configured to utilize lower electricity rates.



*Image: Visual representation of the smart battery management features, including adaptive recharge and smart preheating for cold weather.*

## 4. MAINTENANCE

### 4.1 Blade Replacement

Regularly inspect the cutting blades for wear and damage. Dull or damaged blades can affect cutting performance. Replace blades as needed using the provided spare blades and tools. Always power off the mower and wear protective gloves when handling blades.

### 4.2 Cleaning

Keep the mower clean to ensure optimal performance. Regularly remove grass clippings and debris from the cutting deck, wheels, and sensors. The LUBA mini 2 is IPX6 waterproof, allowing for cleaning with a hose, but avoid direct high-pressure water jets on sensitive components.



Image: The Mammotion LUBA mini 2 being cleaned with a hose, highlighting its IPX6 waterproof rating.

### 4.3 Software Updates

Ensure the Mammotion app and mower firmware are kept up-to-date. Over-The-Air (OTA) updates provide performance improvements, new features, and bug fixes. The app will notify you when updates are available.

## 5. TROUBLESHOOTING

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This section addresses common issues you might encounter with your LUBA mini 2.

### 5.1 Mower Not Starting or Responding

- **Check Battery:** Ensure the mower is sufficiently charged. Return it to the charging station if the battery is low.
- **Power Button:** Verify the main power button on the mower is pressed.
- **App Connection:** Confirm the mower is connected to the Mammotion app and there are no communication errors.

### 5.2 Poor Mowing Performance or Missed Areas

- **Blade Condition:** Inspect blades for sharpness and damage. Replace if necessary.
- **Cutting Height:** Adjust the cutting height in the app to suit the grass length.
- **Lawn Map:** Review your lawn map in the app. Ensure all mowing zones are correctly defined and no-go zones are accurate. Re-map if significant changes have occurred or if the map is inaccurate.
- **Obstacles:** Clear any new obstacles from the mowing path that might be causing the mower to deviate.

### 5.3 Mower Getting Stuck or Collision Errors

- **Clear Path:** Remove any small objects, toys, or debris from the lawn that the mower might encounter.
- **Sensor Cleanliness:** Clean the LiDAR and camera lenses to ensure clear vision for obstacle detection.
- **Terrain:** While designed for slopes up to 80%, extreme uneven terrain or very deep ruts might cause issues. Consider adjusting the terrain or creating no-go zones.

### 5.4 Connectivity Issues (App/4G)

- **Wi-Fi/Bluetooth:** Ensure your mobile device's Wi-Fi or Bluetooth is enabled and within range.

- **4G Signal:** Check the 4G signal strength in your area. If the signal is weak, connectivity may be intermittent.
- **Router/Network:** Restart your home router if Wi-Fi connectivity is an issue.

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

## 6. SPECIFICATIONS

Detailed technical specifications for the Mammotion LUBA mini 2 AWD 1500H.

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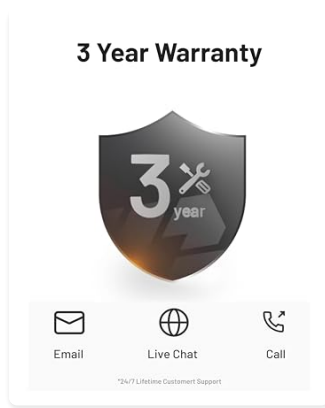
*Video: Provides a detailed overview of the LUBA Mini AWD Robotic Mower specifications.*

Feature	Specification
Brand	Mammotion
Model Number	LUBA mini 2 1500H
Power Source	Battery Powered
Color	White
Cutting Width	7.8 Inches
Cutting Height Range	2.2 - 4.0 Inches
Operation Mode	Automatic
Product Dimensions (D x W x H)	23" x 18" x 12.6"
Smart Home Compatibility	Smart Home Compatible
Max Mowing Area	0.37 Acres
Max Slope Climbing Ability	80% (38.6°)
Waterproof Rating	IPX6

## 7. WARRANTY AND SUPPORT

### 7.1 Warranty Information

The Mammotion LUBA mini 2 AWD 1500H comes with a **3-year warranty**. This warranty covers manufacturing defects and ensures the product meets its specified performance under normal use conditions. Please retain your proof of purchase for warranty claims.



*Image: A shield icon indicating a 3-year warranty for Mammoth products.*

## 7.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact Mammoth customer support. Support channels typically include:

- Email support
- Live Chat (via the Mammoth website or app)
- Phone Support

Refer to the official Mammoth website or the Mammoth app for the most up-to-date contact information and support resources.