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## Mammotion LUBA 2 AWD 10000

# Mammotion LUBA 2 AWD 10000 Robot Lawn Mower Instruction Manual

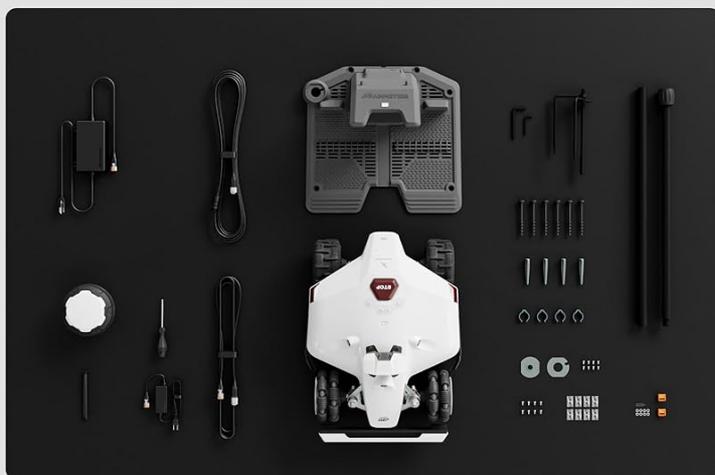
Model: LUBA 2 AWD 10000

[Box](#) [Setup](#) [Operating](#) [Maintenance](#) [Safety](#) [Specifications](#) [Troubleshooting](#) [Warranty](#) [Support](#)

## 1. INTRODUCTION

The Mammotion LUBA 2 AWD 10000 is an advanced robotic lawn mower designed for efficient and autonomous lawn care. This model is capable of managing lawns up to 2.5 acres and handling slopes up to 80% (38 degrees). It features a perimeter wire-free setup, precise RTK-GNSS and multi-sensor navigation, and convenient control via a smartphone app or voice commands. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your LUBA 2 AWD 10000 to ensure optimal performance and longevity.

## 2. WHAT'S IN THE BOX



### What's in the Box

- Quick Start Guide
- LUBA 2 AWD
- Power Supply
- Extra One Set of Blade
- Security Keyinstallation Kits
- Charging Station
- RTK Reference Station
- RTK Extension Cable (10m)
- RTK Power Supply
- RTK Ground Mount

**Image:** Contents of the Mammotion LUBA 2 AWD 10000 box, including the mower, charging station, RTK reference station, and accessories.

Upon unpacking, please verify that all the following items are present:

- LUBA 2 AWD Unit
- Quick Start Guide
- Power Supply
- Extra One Set of Blades
- Security Key Installation Kits
- Charging Station
- RTK Reference Station
- RTK Extension Cable (10m)
- RTK Power Supply
- RTK Ground Mount

## **3. SETUP**

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### **3.1 Perimeter Wire-Free Mapping**

The LUBA 2 AWD 10000 eliminates the need for physical perimeter wires. Its advanced 3D Vision and RTK Fusion-mapping System allows for precise, centimeter-level accurate positioning and virtual boundary setup.

# 3D Vision + RTK Fusion-mapping System

18mins to Setup with No Perimeter Wire



**Image:** The LUBA 2 AWD 10000 utilizes a 3D Vision and RTK Fusion-mapping System for precise, wire-free lawn mapping and navigation.

To set up your lawn boundaries, use the Mammotion App to 'drive' the LUBA 2 AWD 10000 like a remote control car. This process defines the virtual boundaries for your mowing zones.

# 3D Vision Positioning Technology

The 3D vision module is equipped with deep learning capabilities, enabling intelligent boundary recognition.



**Image:** Drive LUBA like a remote control car to set virtual boundaries. With 3D Vision & RTK Fusion-mapping System, precise positioning and boundary compliance are guaranteed, eliminating the need for any wiring.

## 3.2 Vision Module Installation

Ensure the vision module is correctly installed for optimal navigation and obstacle avoidance.



**Image:** Instructions for installing the vision module: Connect the vision module wires (black to black and white to white), then attach the module to the Luba using four screws and tighten with a 2.5mm hex screwdriver.

## 3.3 RTK Reference Station

The RTK Reference Station is crucial for maintaining centimeter-level positioning accuracy. An optional solar panel is available for charging the RTK unit, promoting environmental friendliness.

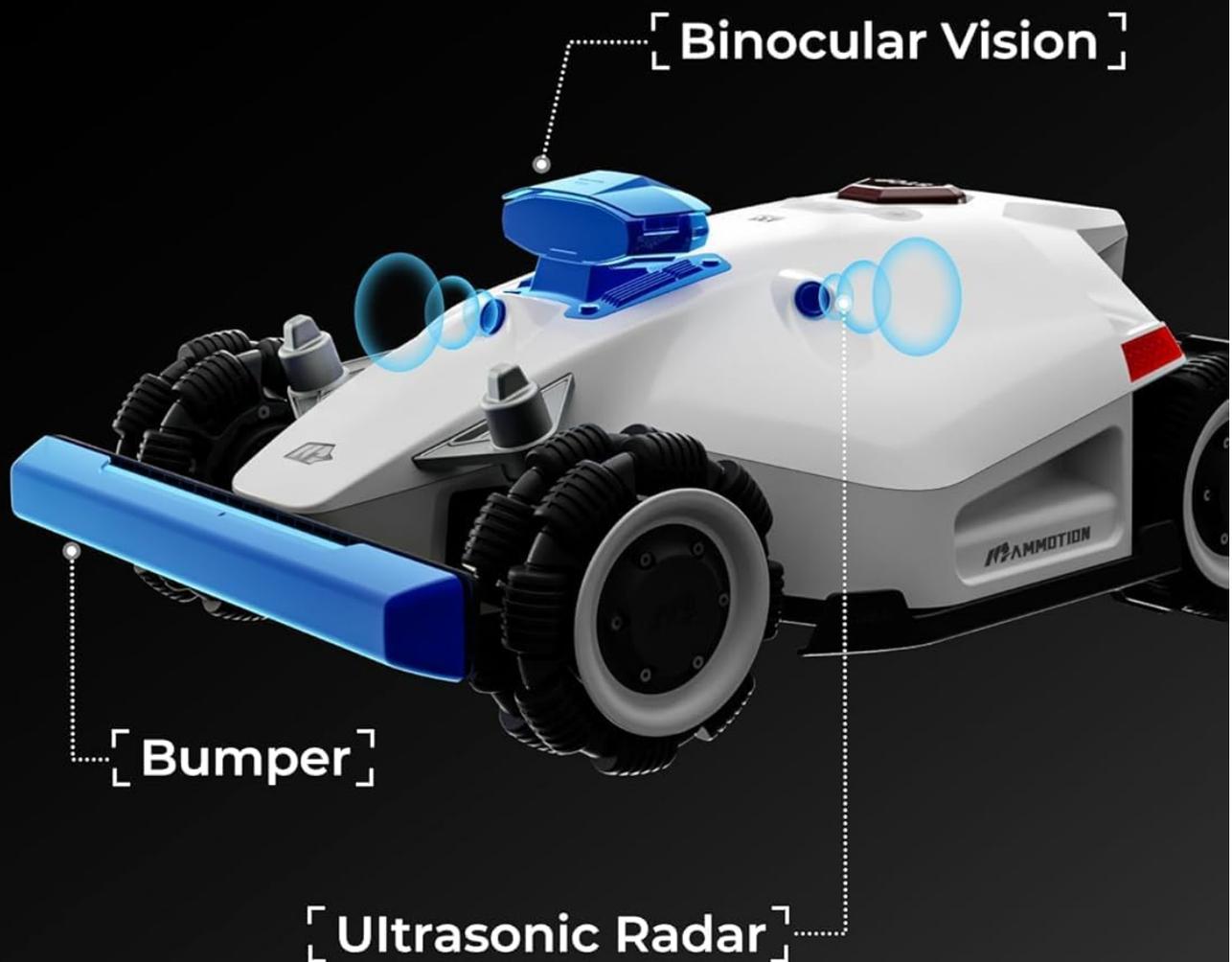
## 4. OPERATING INSTRUCTIONS

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### 4.1 App and Voice Control

Control your LUBA 2 AWD 10000 conveniently through the Mammotion App or integrate it with smart home systems like Amazon Alexa or Google Home for voice commands.

# Triple-reductant Obstacle Avoidance



**Image:** Control your LUBA 2 AWD 10000 via the Mammotion App or integrate with smart home systems like Alexa and Google Home for convenient operation.

## When Others Get Stuck, LUBA Prevails



Steep Slopes



Potholes



Rough Terrain



Tall and Thick Grass



All-Wheel-Drive System



Adaptive  
Suspension Arm



Omni-Wheel

**Image:** Use voice commands with Alexa or Google Home for 'Speak-and-Mow' functionality.

### 4.2 Multi-Zone and No-Go Zone Management

The Mammotion App allows you to define multiple mowing zones, each with customizable cutting heights (25-70mm) and schedules. You can also set 'no-go zones' to prevent the mower from entering specific areas.



**Image:** Manage multiple mowing zones with adjustable cutting heights (25-70mm) and schedules. Set no-go zones for areas to be avoided.

### 4.3 Terrain Navigation

The LUBA 2 AWD 10000 features an All-Wheel Drive system and adaptive suspension, enabling it to navigate challenging terrains, including steep slopes up to 80% (38 degrees), potholes, rough ground, and tall grass, while maintaining a smooth mow.

# When Others Get Stuck, LUBA Prevails

All-Wheel Drive for 80% Slope (38.6°)



Steep Slope



Patholes



Rough Terrain



Tall and  
Thick Grass



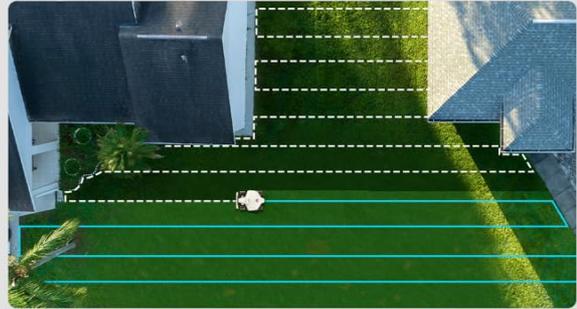
**Image:** The LUBA 2 AWD 10000 is designed to navigate challenging terrains including steep slopes, potholes, rough ground, and tall grass.

## 4.4 Mowing Schedules and Patterns

Set mowing schedules and choose from various mowing modes and patterns directly from the Mammotion App. You can even create custom lawn art designs.

## No Boundaries, No Worries

Drive LUBA like a remote control car to set virtual boundaries. With our **3D Vision & RTK Fusion-mapping System**, precise positioning and boundary compliance are guaranteed, eliminating the need for any wiring.



## Planned-Route

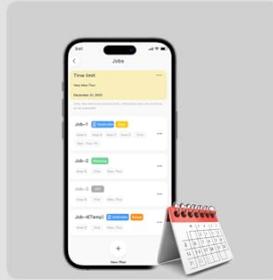
Utilizing patented algorithms, LUBA automatically optimizes mowing paths for different areas, ensuring efficient cutting while leaving behind beautiful lawn stripes.

**Image:** Adjust cutting height, set mowing schedules, choose mowing modes, and check mower status remotely via the app.

## Experience Hassle-free Lawn Care Even When You're on Holiday



Adjust Cutting Height



Set Mowing Schedule



Choose Mowing Modes



Check Mower Status

**Image:** The Mammotion app allows you to choose different mowing patterns and create custom designs, adjusting the mowing route, cutting height, and angle for precise lawn patterns.

## 4.5 Video Overview

**Video:** This official product video from Mammotion U.S. demonstrates the key features of the LUBA 2 AWD Robot Lawn Mower, including its wire-free setup, multi-zone management, all-wheel drive capabilities, cutting performance, smart home integration, and safety features.

## 5. MAINTENANCE

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### 5.1 Cutting System

The LUBA 2 AWD 10000 features a unique dual-cutting-disc design, offering a cutting width of 15.7 inches (400mm). Regularly inspect the blades for wear and replace them as needed to maintain optimal cutting performance. An extra set of blades is included in the box.

# 66% Higher Efficiency than the Second-best

Cutting Width 15.70"



**Image:** The LUBA 2 features dual cutting discs with a 15.7-inch cutting width for efficient and precise lawn trimming.

## 5.2 Battery Management

The intelligent battery system detects low power levels and automatically guides the mower back to its base station for recharging. Ensure the base station is clear of obstructions for seamless docking.

## 6. SAFETY FEATURES

## 6.1 Obstacle Avoidance

The LUBA 2 AWD 10000 is equipped with a triple-redundant obstacle avoidance system for enhanced safety. This system includes a physical bumper, ultrasonic radar, and binocular vision, allowing the mower to detect and avoid objects, pets, and children in its path.

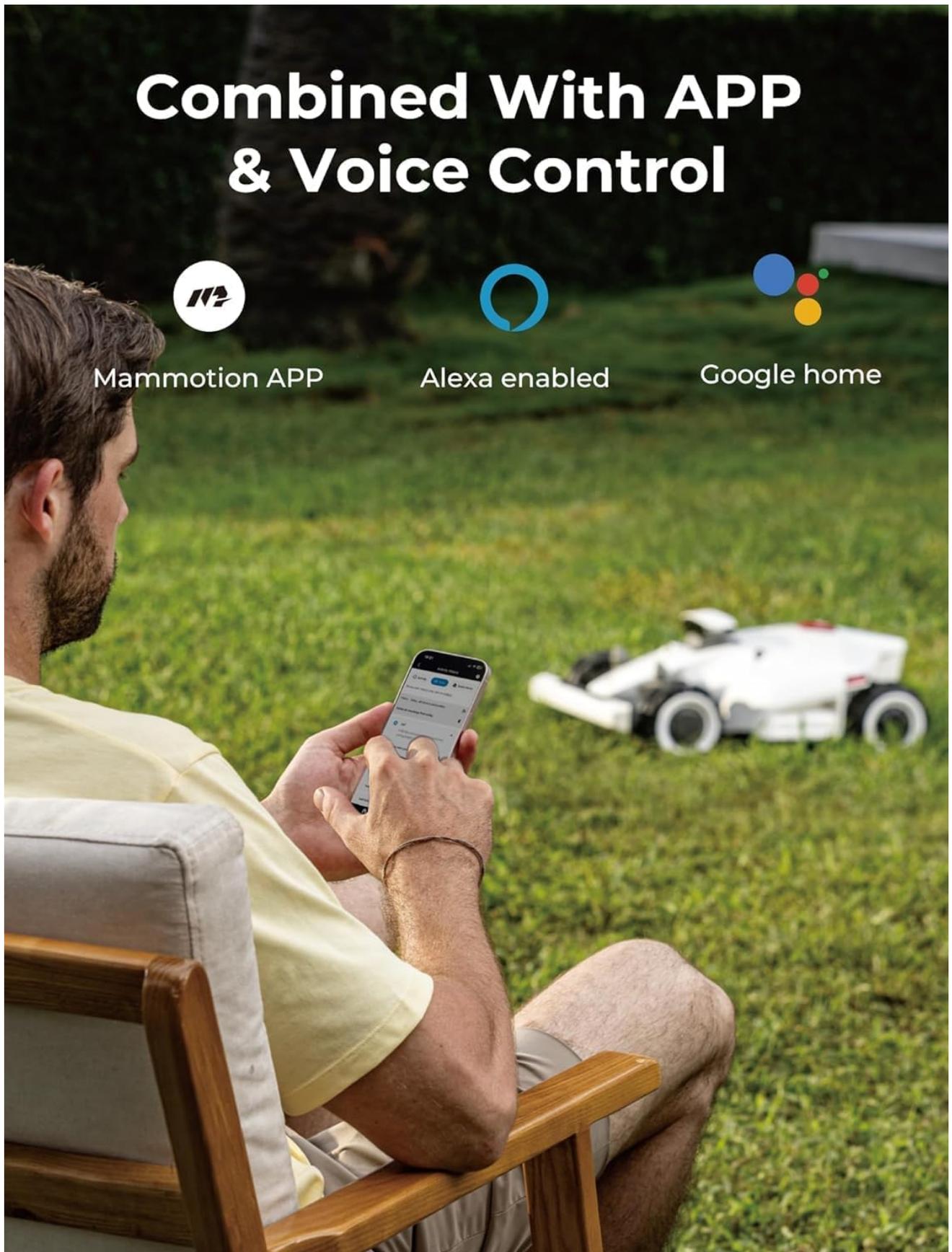
# Hassle-free Lawn Care with No Perimeter Wire



**Image:** The LUBA 2 AWD 10000 is equipped with a bumper, ultrasonic radar, and binocular vision for triple-redundant obstacle avoidance, ensuring safety around pets and children.

## 6.2 Anti-Theft and Monitoring

The mower includes a robust anti-theft system with GPS tracking, a built-in alarm, geofence alerts, and ownership authentication. In case of unauthorized movement, you will receive app notifications and can track its location.



**Image:** Features include AirTag compatibility, ownership authentication, geofence alarm, GPS tracking, and app notifications for real-time monitoring and theft protection.



## Multi-zone Management

You can also set multiple mowing zones with varying **cutting heights (25-70mm)** and schedules for each zone. Luba will traverse automatically between them.



## No-go-zone Management

Setting up no-go zones for areas that do not require mowing, LUBA will strictly avoid those designated areas.

**Image:** Enable yard monitoring in the visual module to access real-time yard status playback recordings and manage your yard smartly through the Mammotion APP.

## 7. SPECIFICATIONS

Feature	Specification
Brand	Mammotion
Model Number	LUBA 2 AWD 10000
Power Source	Battery Powered
Material	Plastic
Color	White
Cutting Width	15.7 Inches (400mm)
Adjustable Cutting Height	1.0" - 2.7" (2.54 cm - 6.86 cm)
Operation Mode	Automatic
Product Dimensions	27.17"D x 20.2"W x 10.75"H
Item Weight	38.9 Pounds
Slope Capability	Up to 80% (38 degrees)
Lawn Coverage	Up to 2.5 Acres
Smart Home Compatibility	Amazon Alexa, Google Home

## 8. TROUBLESHOOTING

If you encounter issues with your LUBA 2 AWD 10000, consider the following general troubleshooting steps:

- **Check App Status:** Open the Mammotion App to view the mower's current status, error messages, and battery level.
- **Clear Path:** Ensure the mowing area and the path to the charging station are free of obstructions.
- **RTK Signal:** Verify that the RTK reference station has a clear view of the sky and is receiving a strong signal.
- **Power Cycle:** Try turning the mower off and on again.

- **Consult Support:** For persistent issues, refer to the support section for contact options.

## 9. WARRANTY INFORMATION

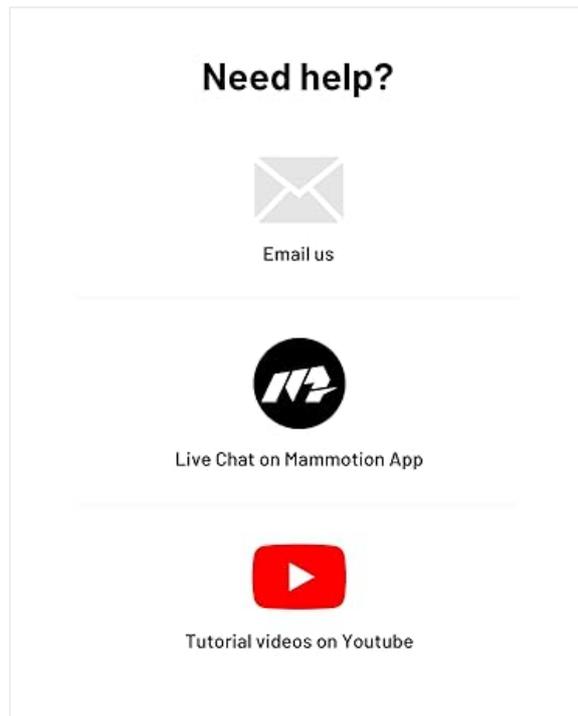
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Specific warranty terms and conditions for the Mammoth LUBA 2 AWD 10000 are typically provided with your product documentation or can be found on the official Mammoth website. Please retain your proof of purchase for warranty claims. It is recommended to review the warranty details upon receipt of your product to understand coverage and procedures.

## 10. SUPPORT

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For further assistance, technical support, or inquiries regarding your Mammoth LUBA 2 AWD 10000, please use the following resources:



**Image:** For assistance, contact Mammoth via email, live chat on the Mammoth App, or refer to tutorial videos on YouTube.

- **Mammoth App:** Utilize the built-in live chat feature within the Mammoth App for direct support.
- **Email Support:** Contact Mammoth customer service via email for detailed inquiries.
- **Online Tutorials:** Visit the official Mammoth YouTube channel for instructional videos and guides.
- **Manufacturer Website:** Check the [Mammoth Store](#) or official website for FAQs and additional resources.