

# LUBA



LUBA 2 AWD Series

# Perimeter Wire Free Robot Lawn Mower

A Trusted Choice for Large or Uneven Lawn



## About Mammotion

Mammotion is dedicated to cultivating an intelligent and high-quality eco-friendly outdoor lifestyle through innovative robotic solutions. Our mission commences with revolutionizing robot lawn mowers for both professionals and consumers, paving the way for a more sustainable and efficient outdoor experience.

**70%+**

R&D Staff  
Proportion

**410+**

Patents

**6000m<sup>2+</sup>**

Production Base

## About LUBA

As the world's only Perimeter Wire Free Robot Lawn Mower able to deliver long-term, stable, and flawless performance on large or complex lawns. Through a one-time setup via app, LUBA offers customized cutting heights, patterns, and schedules for multi-zone lawns. It utilizes proprietary algorithms to calculate the optimal route, adjusting tasks in response to real-time weather changes, also featuring auto-recharging, anti-theft and yard monitoring. It truly achieves labor-free, 24/7 lawn maintenance.

**Hands-free** Mowing

**24/7** Freshly Cut Lawn

**Residential** Use



# A Trusted Choice For Large or Uneven Lawn



**80%**

Slope with  
All-Wheel-Drive System ( 38.6° )

**18 mins**

to Setup with No  
Perimeter Wire

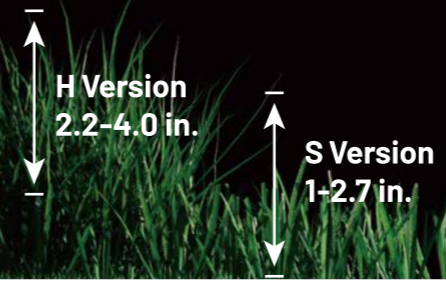
**0** Corner

Missed with  
Dual-guarantee Positioning

**66%**

Higher Efficiency than  
the Second-best

## In-APP Cutting Height Adjustment



## 3D Visual Obstacle Avoidance



Multi-zone  
& No-go-zone Management

## APP Control Everywhere



GPS Tracking

## Voice Control Alexa & Google Home



Auto-Recharge

## 100% Solar Powered RTK



# How To Use

1

Install the RTK and charging stations in the yard



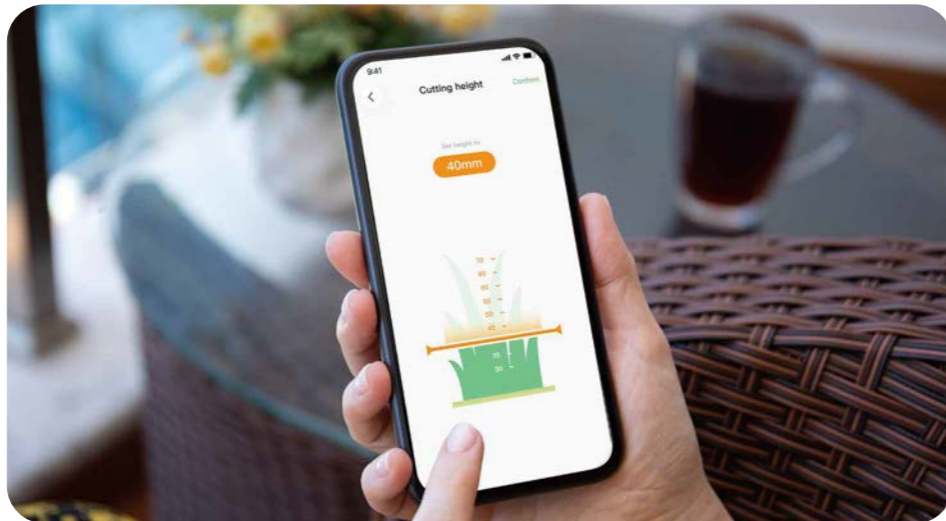
2

Drive LUBA like an RC car to set a virtual boundary. Creating multi-zones and no-go-zones is just as straightforward.



3

Set cutting height, frequency, and mowing mode for different zones within the Mammotion APP



# With APP & Voice Control Mowing is a Breeze



**APP Control**  
Customize mowing with  
Mammotion APP

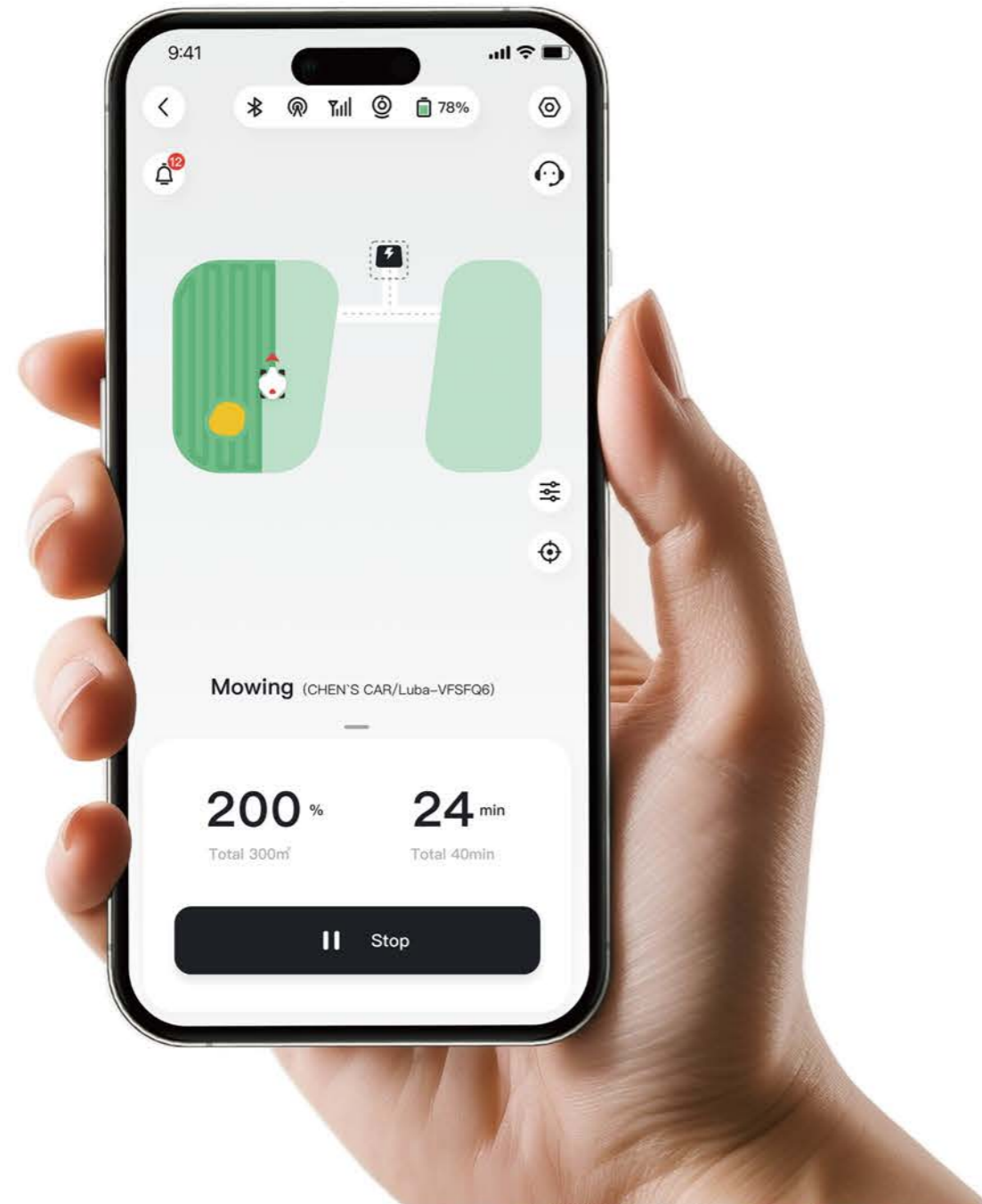


**Voice Control**  
Alexa enabled  
Google Home enabled



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

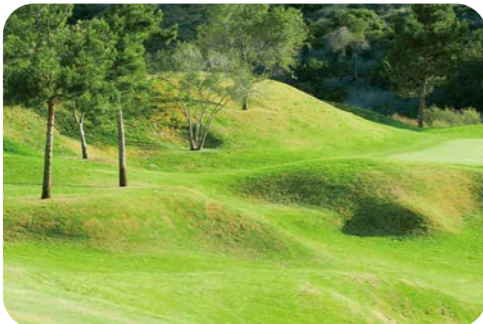
- ▶ Real-time Yard Monitoring
- ▶ Set Cutting Height & Mowing Modes
- ▶ Set/Adjust Mowing Schedule
- ▶ Check Mower Status



# When Others **Get Stuck** LUBA Prevails



**Steep Slopes**



**Potholes**



**Rough Terrain**



**Tall and Thick Grass**



## All-Wheel-Drive System

Featuring four powerful in-hub motors, LUBA can effortlessly handle slope with 38.6° and traverse the most demanding terrain without getting stuck.



## Adaptive Suspension Arm

The adaptive suspension arm system, combined with terrain sway, ensures LUBA's agile traversal of rugged terrain.



## Omini-Wheel

The omni-wheels ensure zero-turn agility without damaging the lawn, and the gap between the small wheels provides excellent traction, ensuring LUBA operates smoothly on steep slopes without slipping.

# No Corner Missed with Fusion-mapping System



Dense Shade



Narrow Nook



Angled Corner



Unfenced Lawn

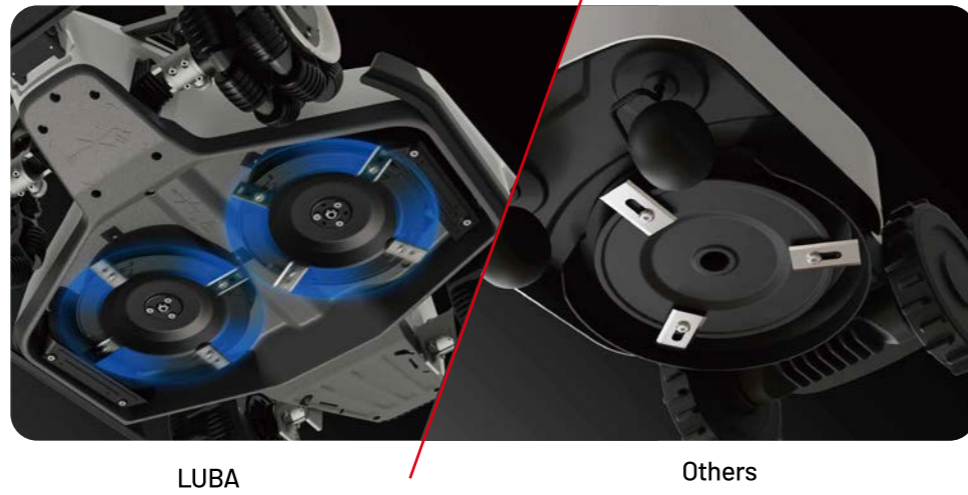


▶ Enhanced RTK Signal Coverage

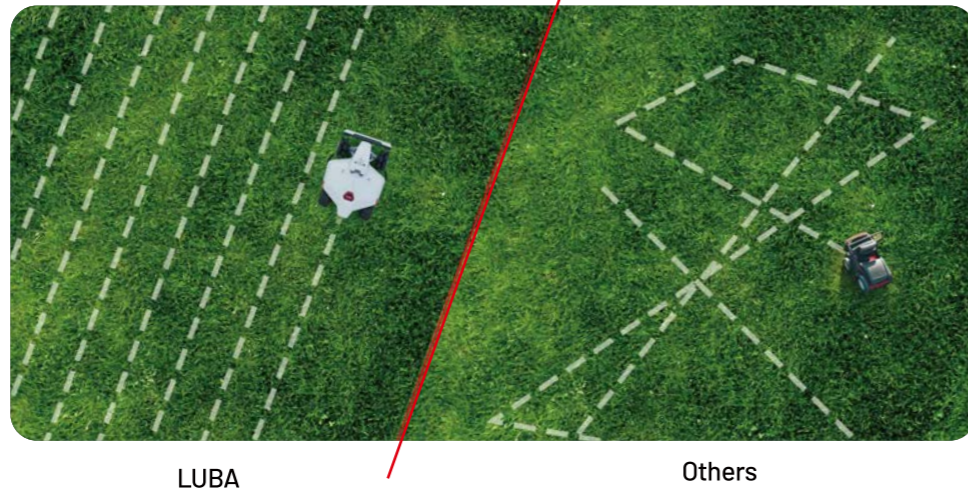
▶ 3D Vision Positioning Technology

# A 66% Higher Mowing Efficiency Than the Second-best

Dual-cutting Disc



Planned Route Mode



In-app Cutting Height Adjustment



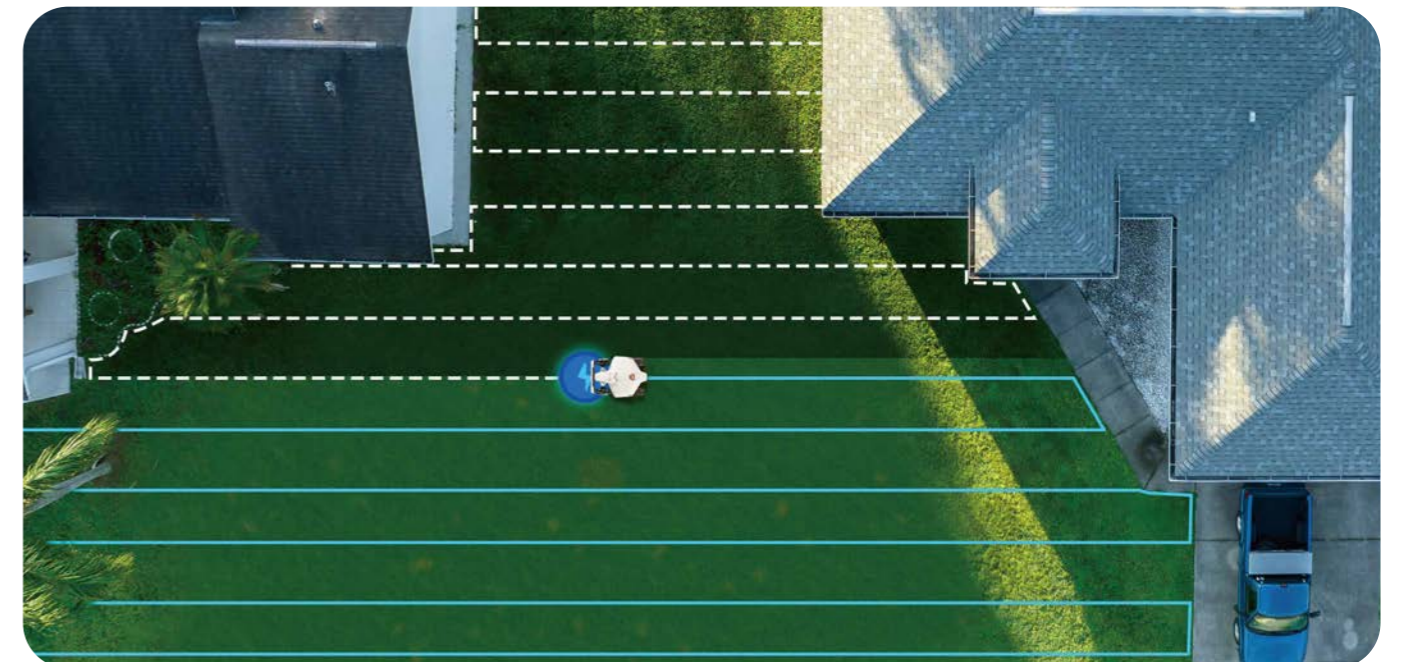
## Powerful Battery & Auto-recharge

LUBA's lithium battery has sufficient capacity to allow for 180 minutes of continuous operation and the ability to mow up to 500 square meters (0.13 acres) per hour. When the battery level is low, LUBA autonomously returns to the charging dock and resumes the interrupted mowing session.



## Re-Cutting at Stoppage Point

Experience uninterrupted mowing with LUBA. After automatically recharging, LUBA seamlessly resumes mowing where it last left off, ensuring a consistently well-maintained lawn.





# Unleash Lawn Artistry with Lawn Printing Technology

- In the Mammotion APP you can choose different mowing patterns and create custom designs
- LUBA uses advanced algorithms to adjust themowing route, cutting height and angle,ensuring
- Precise mowing of desired lawnpatterns.

\* FOTA (Firmware Over-The-Air) updates regularly add new patterns, giving users a wide range of options and the latest designs.



## 1.Stripes



Parallel



Checkboard



Diamond Grid

## 2.Systematic Pattern



Heart Shape



Football Shape



Pentagram Shape

## 3.Customized Pattern



Unlimited English letters can be freely combined with 26 English letters to choose from.

# Leading the Way in **Safe & Secure** Lawn Maintenance

## Enhanced Safety Features

Physical Stop Button

Security Key

Lift/Tilt Sensor

Blade Halts during Abnormal Situation

## Triple-reductant Obstacle Avoidance

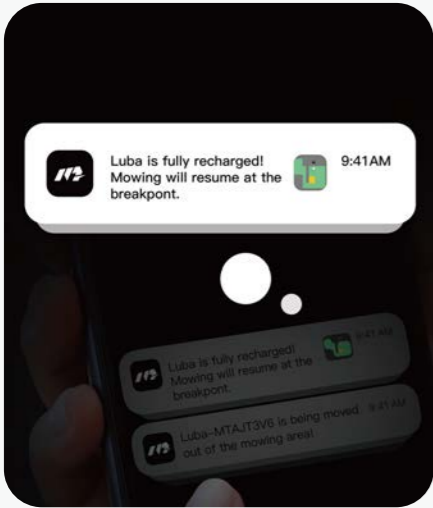
3D Vision Recognition  
& Obstacle Avoidance

Ultrasonic Radar Detection  
& Obstacle Avoidance

Physical Bumper Protection



# Intelligent Security and Tracking Features



### App Notification

Receive APP notification if LUBA exceeds designated mowing zones.



### GPS Tracking

Track LUBA's location in real-time in the Mammotion APP using GPS tracking.



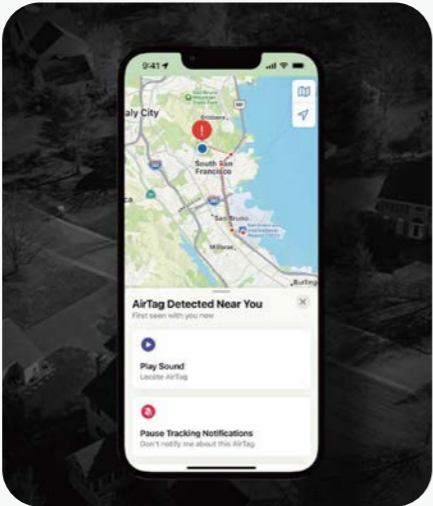
### Ownership Authentication

The first user to activate the device becomes the rightful owner and can grant access to family members. LUBA supports a "lost" feature, preventing unauthorized use.



### Geofence Alarm

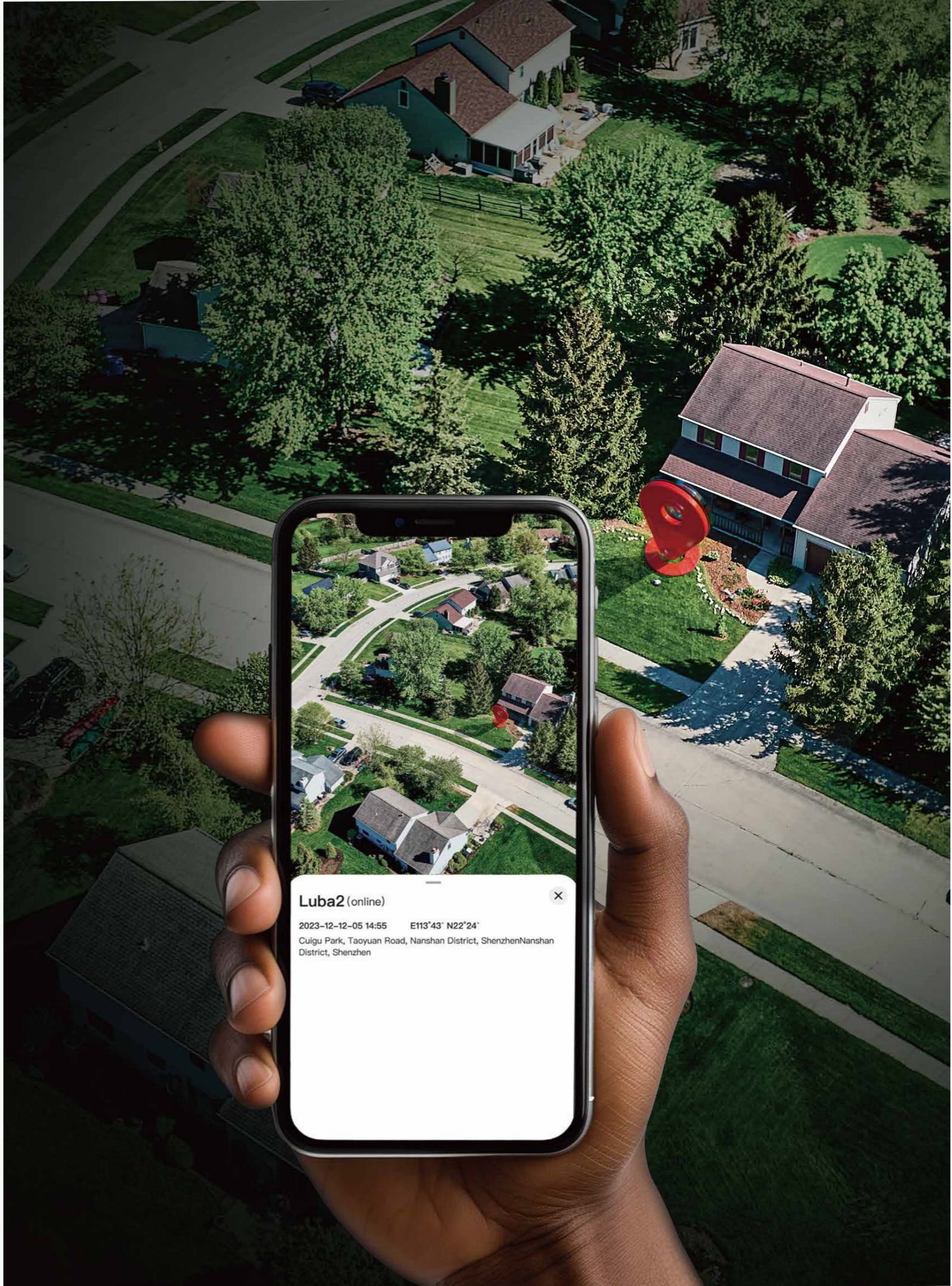
When LUBA is moved out of the geofence, the alarm will be automatically triggered.



### AirTag Compatibility

Reserve a spot on LUBA for an AirTag. Add an optional AirTag to secure your LUBA for added peace of mind.

\*Note: Airtag is not included and must be purchased separately.



**Luba2 (online)** [Close]

2023-12-12-05 14:55    E113°43' N22°24'

Cuigu Park, Taoyuan Road, Nanshan District, ShenzhenNanshan District, Shenzhen

# Take a Step towards Sustainability

## Lithium-Battery Powered LUBA

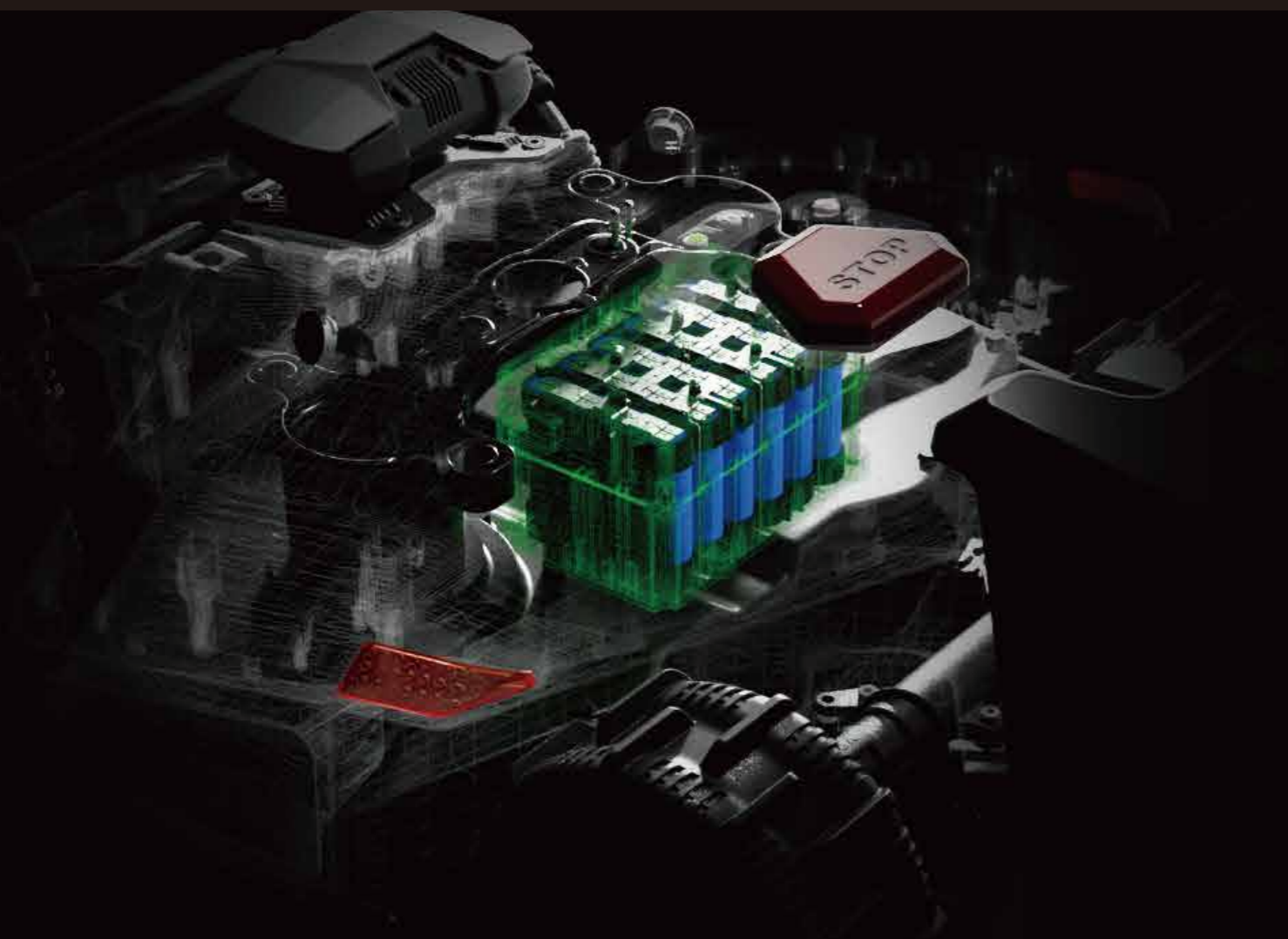
Contrasting with traditional gas-powered mowers, Luba runs on lithium battery power, providing a clean and emission-free solution. Besides, our advanced energy management system optimizes LUBA's energy consumption, enhancing overall energy utilization and reducing expenditure.



Reducing Carbon Emissions



Cutting Energy Costs



## 100% Solar-Powered RTK

RTK is powered by the robust lithium battery that can be charged using solar energy, providing an extended 14-day battery life. This ensures ample power reserves, even during cloudy or rainy seasons.



### Eco-friendly

It operates solely on solar power, resulting in zero emissions and promoting eco-friendliness.



### Convenient

With no need for extended power cables, it offers hassle-free installation and operation.



### Cost-effective

It reduces energy costs, making it an economical choice.



### Flexible

The RTK can be installed in any outdoor open area without the need to consider power sources.

\*Note: Solar Panel Kit is not included and must be purchased separately.

# Explore More Exciting Features



## Whisper-Quiet Noise Level

During operation, LUBA maintains a noise level consistently below 60dB, ensuring no noise pollution is generated.



## Waterproof Performance

LUBA machine is IPX6 waterproof rated, while the RTK reference station boasts an IPX7 waterproof rating. It ensures exceptional durability, even in rainy and humid areas.



## Rain Detection

LUBA automatically adjusts its mowing schedule based on real-time weather conditions, thanks to its rain sensor and the seamless integration of the Mammotion app with local weather forecasts.



## FOTA Updates

Mammotion software continuously introduces new features and enhances user experience. It can be effortlessly downloaded at any time using FOTA (Firmware-Over-The-Air) technology.



## TUV Privacy Protection Certified

As part of our commitment to privacy, we have obtained the TUV Privacy Safety Certification for our product.

# Select Your Ideal Model

Standard Version (Cutting Height:1-2.7 inches)				
Specifications	LUBA 2 AWD 10000	LUBA 2 AWD 5000	LUBA 2 AWD 3000	LUBA 2 AWD 1000
Max. Mowing Size	2.5 acres	1.25 acres	0.75 acres	0.25 acres
In-App Area Storage Capacity	3 acres	1.5 acres	0.9 acres	0.3 acres
Max. Multi-zone Management	60	30	20	10
Engine	All-Wheel-Drive (AWD)	All-Wheel-Drive (AWD)	All-Wheel-Drive (AWD)	All-Wheel-Drive (AWD)
Max. Climbing Ability	80% (38.6°)	80% (38.6°)	80% (38.6°)	80% (38.6°)
Max. Slope at the Edge	45% (24°)	45% (24°)	45% (24°)	45% (24°)
Vertical Obstacle Passing Ability	2.0 in.	2.0 in.	2.0 in.	2.0 in.
Cutting Wedith	15.7 in.	15.7 in.	15.7 in.	15.7 in.
In-APP Cutting Height Adjustment	1-2.7 in.	1-2.7 in.	1-2.7 in.	1-2.7 in.
Charging Time	150 min	150 min	150 min	90 min
Mowing Time per Charge	180 min	180 min	180 min	120 min
Auto-recharge	Yes	Yes	Yes	Yes
Positioning & Navigation	Stereo Vision & RTK	Stereo Vision & RTK	Stereo Vision & RTK	Stereo Vision & RTK
Obstacle Avoidance	Stereo Vision Ultrasonic Radar Physical Bumper	Stereo Vision Ultrasonic Radar Physical Bumper	Stereo Vision Ultrasonic Radar Physical Bumper	Stereo Vision Ultrasonic Radar Physical Bumper
Voice Control	Alexa & Google Home	Alexa & Google Home	Alexa & Google Home	Alexa & Google Home
Vision Monitoring	Yes	Yes	Yes	Yes
Connectivity	4G & Wifi & Bluetooth	4G & Wifi & Bluetooth	4G & Wifi & Bluetooth	4G & Wifi & Bluetooth
Noise Level	60 dB	60 dB	60 dB	60 dB
Waterproof	LUBA Machine: IPX6 Charging Station: IPX6 RTK Station: IPX7	LUBA Machine: IPX6 Charging Station: IPX6 RTK Station: IPX7	LUBA Machine: IPX6 Charging Station: IPX6 RTK Station: IPX7	LUBA Machine: IPX6 Charging Station: IPX6 RTK Station: IPX7
Rain Detection	Yes	Yes	Yes	Yes
Weight	38.9 lbs	38.9 lbs	38.9 lbs	38.9 lbs
Size (l*w*h)	27.2*20.2*10.7 in.	27.2*20.2*10.7 in.	27.2*20.2*10.7 in.	27.2*20.2*10.7 in.

H Version (Cutting Height:2.2-4.0 inches)				
Specifications	LUBA 2 AWD 10000H	LUBA 2 AWD 5000H	LUBA 2 AWD 3000H	LUBA 2 AWD 1000H
Max. Mowing Size	2.5 acres	1.25 acres	0.75 acres	0.25 acres
In-App Area Storage Capacity	3 acres	1.5 acres	0.9 acres	0.3 acres
Max. Multi-zone Management	60	30	20	10
Engine	All-Wheel-Drive (AWD)	All-Wheel-Drive (AWD)	All-Wheel-Drive (AWD)	All-Wheel-Drive (AWD)
Max. Climbing Ability	80% (38.6°)	80% (38.6°)	80% (38.6°)	80% (38.6°)
Max. Slope at the Edge	45% (24°)	45% (24°)	45% (24°)	45% (24°)
Vertical Obstacle Passing Ability	3.1 in.	3.1 in.	3.1 in.	3.1 in.
Cutting Wedith	15.7 in.	15.7 in.	15.7 in.	15.7 in.
In-APP Cutting Height Adjustment	2.2-4.0 in.	2.2-4.0 in.	2.2-4.0 in.	2.2-4.0 in.
Charging Time	150 min	150 min	150 min	90 min
Mowing Time per Charge	180 min	180 min	180 min	120 min
Auto-recharge	Yes	Yes	Yes	Yes
Positioning & Navigation	Stereo Vision & RTK	Stereo Vision & RTK	Stereo Vision & RTK	Stereo Vision & RTK
Obstacle Avoidance	Stereo Vision Ultrasonic Radar Physical Bumper	Stereo Vision Ultrasonic Radar Physical Bumper	Stereo Vision Ultrasonic Radar Physical Bumper	Stereo Vision Ultrasonic Radar Physical Bumper
Voice Control	Alexa & Google Home	Alexa & Google Home	Alexa & Google Home	Alexa & Google Home
Vision Monitoring	Yes	Yes	Yes	Yes
Connectivity	4G & Wifi & Bluetooth	4G & Wifi & Bluetooth	4G & Wifi & Bluetooth	4G & Wifi & Bluetooth
Noise Level	60 dB	60 dB	60 dB	60 dB
Waterproof	LUBA Machine: IPX6 Charging Station: IPX6 RTK Station: IPX7	LUBA Machine: IPX6 Charging Station: IPX6 RTK Station: IPX7	LUBA Machine: IPX6 Charging Station: IPX6 RTK Station: IPX7	LUBA Machine: IPX6 Charging Station: IPX6 RTK Station: IPX7
Rain Detection	Yes	Yes	Yes	Yes
Weight	40.3 lbs	40.3 lbs	40.3 lbs	40.3 lbs
Size (l*w*h)	27.2*20.2*12.0 in.	27.2*20.2*12.0 in.	27.2*20.2*12.0 in.	27.2*20.2*12.0 in.

\*Notes: The data is obtained in a specific test environment, and may be slightly different in actual use due to individual product differences, software versions, use conditions and environmental factors, etc. The actual usage should prevail.