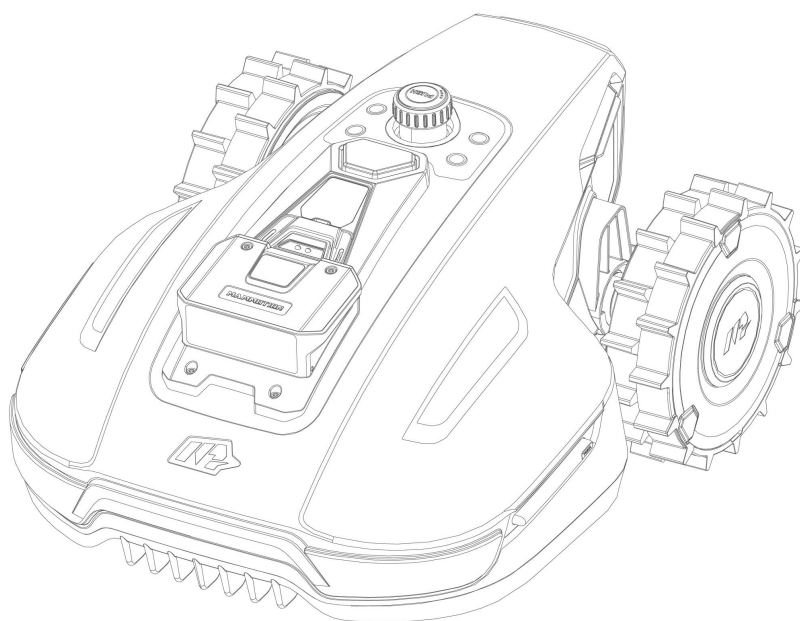


# USER MANUAL

EN

## YUKA mini Vision



Robotic Lawn Mower

**MAMMOTION**

Original Instructions

Version 1.0

08/2025

Thank you for choosing Mammotion as your garden care lawn mower. This user manual will help you learn and operate Mammotion robot, a perimeter-free lawn mower, to cut grass and maintain your lawn.

This manual is copyrighted by Mammotion company. Without the written permission of the company, any unit or individual shall not copy, modify, reproduce, transcribe or transmit in any way or for any reason. This manual is subject to change without notice at any time.

Unless explicitly agreed otherwise, this manual serves solely as a usage guide, and all statements and information contained herein do not constitute any form of warranty.

## Intended Use

Mammotion robots are designed for residential lawn care and are not intended for commercial use.

## Revision Log

Date	Version	Description
08/2025	V1.0	Initial version

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# 1 Safety Instructions

## **READ CAREFULLY BEFORE USE AND FOLLOW ALL INSTRUCTIONS**

- Carefully read and understand the user manual before using the robot.
- Only individuals who are legally considered adults in their state of residence are recommended to use the robot.
- Only use the equipment recommended by Mammotion with the robot. Any other usage is incorrect.
- Never allow children, persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge or people unfamiliar with these instructions to use the robot, local restrictions may restrict the age of the operator.
- Do not allow children to be in vicinity or play with the robot when it is operating.
- Do not use the robot in areas where people are unaware of its presence.
- When manually operating the robot with the Mammotion app, do not run. Always walk, watch your steps on slopes, and maintain balance at all times.
- Avoid touching moving hazardous parts, such as the blade disc, until it has completely stopped.
- Avoid using the robot when there are people, especially children or animals, in the task area.
- If operating the robot in public areas, place warning signs around the task area with the following text: "Warning! Automatic lawn mower! Keep away from the robot! Supervise children!"
- Wear sturdy footwear and long trousers when operating the robot.
- To prevent damage to the robot and accidents involving vehicles and

individuals, do not set task areas or channels across public pathways.

- Seek medical aid in case of injury or accidents.
- Turn off the robot and remove the security key before clearing blockages, performing maintenance, or examining the robot. If the robot vibrates abnormally, inspect it for damage before restarting. Do not use the robot if any parts are defective.
- Do not connect or touch a damaged cable until it is disconnected from the power outlet. If the cable becomes damaged during operation, disconnect the plug from the power outlet. A worn or damaged cable increases the risk of electrical shock and should be replaced by service personnel.
- Do not place cables in areas where the robot will cut.
- Only use the charging station recommended by Mammotion to charge the robot. Incorrect use may result in electric shock, overheating, or corrosive liquid leakage from the battery. In case of electrolyte leakage, flush with water/neutralizing agent and seek medical aid if the corrosive liquid comes into contact with your eyes.
- Only use original batteries recommended by Mammotion. The safety of the robot cannot be guaranteed with non-original batteries. Do not use non-rechargeable batteries.
- Keep extension cords away from moving hazardous parts to avoid damage to the cords which can lead to contact with live parts.

## **1.1 Installation**

- Avoid installing the charging station in areas where people may trip over it.
- Do not install the charging station in areas where there is a risk of standing water.
- Do not install the charging station, including any accessories, within 60

cm (24 in) of any combustible material. Malfunctioning or overheating of the charging station and power supply can pose a fire hazard.

- For users in the USA/Canada: If installing the power supply outdoors, there is a risk of electric shock. Only install it in a covered Class A GFCI receptacle (RCD) with a weatherproof enclosure, ensuring that the attachment plug cap is inserted or removed.

## 1.2 Operation

- Keep your hands and feet away from the rotating blades. Do not place your hands or feet near or below the product when it is turned on.
- Do not lift or move the product when it is turned on.
- Ensure that there are no objects such as stones, branches, tools, or toys on the lawn. Otherwise, the blades may be damaged when they come into contact with the object.
- Do not put objects on top of the robot and charging station.
- Do not use the product if the **STOP** button is not functioning.
- Avoid collisions between the product and people or animals. If a person or animal comes in the path of the product, stop it immediately.
- Always power off the robot when it is not in operation.
- Do not use the product simultaneously with a pop-up sprinkler.
- Avoid setting a channel where pop-up sprinklers are installed.
- Do not operate the product in the presence of standing water in the task area, such as during heavy rain or water pooling.

## 1.3 Maintenance

- Power off the robot when performing maintenance.
- Disconnect the plug from the charging station before cleaning or performing maintenance on the charging station.

- Do not use a high-pressure washer or solvents to clean the robot.
- After washing, ensure that the robot is placed on the ground in its normal orientation, not upside down.
- Do not reverse the robot to wash the chassis. If you do reverse it for cleaning purposes, make sure to restore it to its proper orientation afterward. This precaution is necessary to prevent water from leaking into the motor and potentially affecting normal operation.

## 1.4 Battery Safety

Lithium-ion batteries can explode or cause a fire if disassembled, short-circuited, exposed to water, fire, or high temperatures. Handle them with care, do not dismantle or open the battery, and avoid any form of electrical/mechanical abuse. Store them away from direct sunlight.

- Only use the battery charger and power supply provided by the Manufacturer. The use of an inappropriate charger and power supply can cause electric shocks and/or overheating.
- DO NOT ATTEMPT TO REPAIR OR MODIFY BATTERIES! Repair attempts may result in severe personal injury, due to explosion or electrical shock. If a leak develops, released electrolytes are corrosive and toxic.
- This appliance contains batteries that are only replaceable by skilled persons.

## 1.5 Residual Risks

To avoid injuries, wear protective gloves when replacing the blades.

## 1.6 Disposal

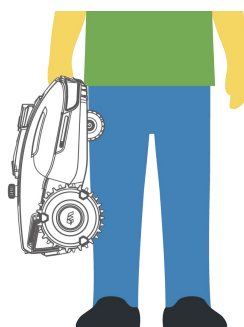
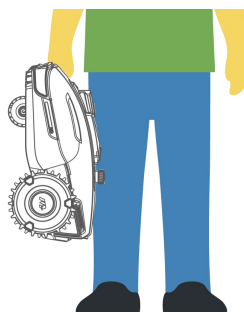
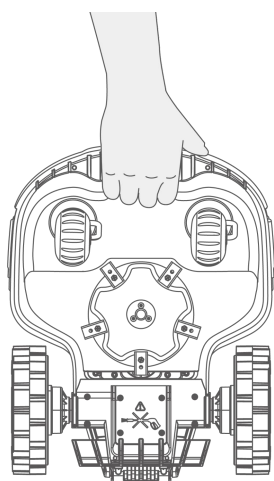
Dispose of this product in compliance with local electronic waste (WEEE) regulations. Do not dispose of it with regular household waste. Instead, bring it to an authorized recycling center or collection point to ensure safe handling and environmentally responsible disposal of electronic components.

## 1.7 Transportation and Moving

For long-distance transportation, Mammotion recommends using the original packaging for both the robot and the charging station.

### To safely move the robot:













- Turn off the robot.
- Lift the robot using its handle.
- Keep the blade disc away from your body.



## 1.8 Symbols on the Product

These symbols can be found on the product. Study them carefully.

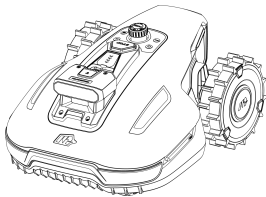
	Warning.
	Read user instructions before operating the product.
	Use a detachable supply unit TS-A081-2703002.
	This product complies with the applicable EU Directives.
<b>Made in China</b>	This product is manufactured in China.
	It is not permitted to dispose of this product as normal household waste. Ensure that the product is recycled in accordance with local legal requirements.
	This item can be recycled.
	Keep the pack of this product dry.
	The pack of this product should not be covered.
	Prohibit flipping.
	This product is fragile.
	The pack of this product/the product should not be tread.
	Class III appliance.

	Keep hands or feet away from movable blades.
	Do not ride on the product.
	Keep a safe distance from your product when operating.
	WARNING – Do not touch rotating blade.
 	WARNING – Read the user instructions before operating the product.
 	WARNING – Keep a safe distance from the machine when operating.
 	WARNING – Remove the disabling device before working on or lifting the machine.
 	WARNING – Do not ride on the machine. Never put your hands or feet close to or under the product.

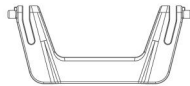
## 2 Introduction

### 2.1 In the Box

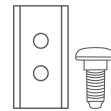
Ensure the parts can be found in the package according to your order. If any parts are missing or damaged, contact your local dealer or our after-sales support. Mammotion recommends you keep the package box and foam inserts for future use.



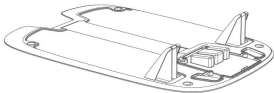
**Robot x1**



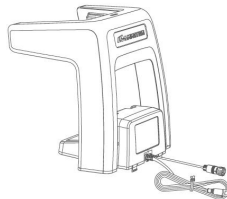
**Security Key x1 (for spare use)**



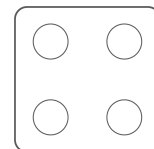
**Blade Kit x6 (for spare use)**



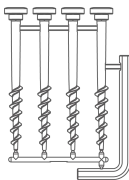
**Charging Base Plate x1**



**Charging Tower x1**



**Marker x1**



**Stake Kit x1**



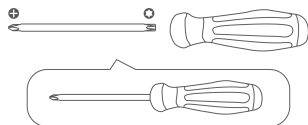
**Screw x4**



**Charging Station Power Supply x1**



## Tool Kit



**Screwdriver (Phillips  
bit+T20 bit) x1**



**Brush x1**

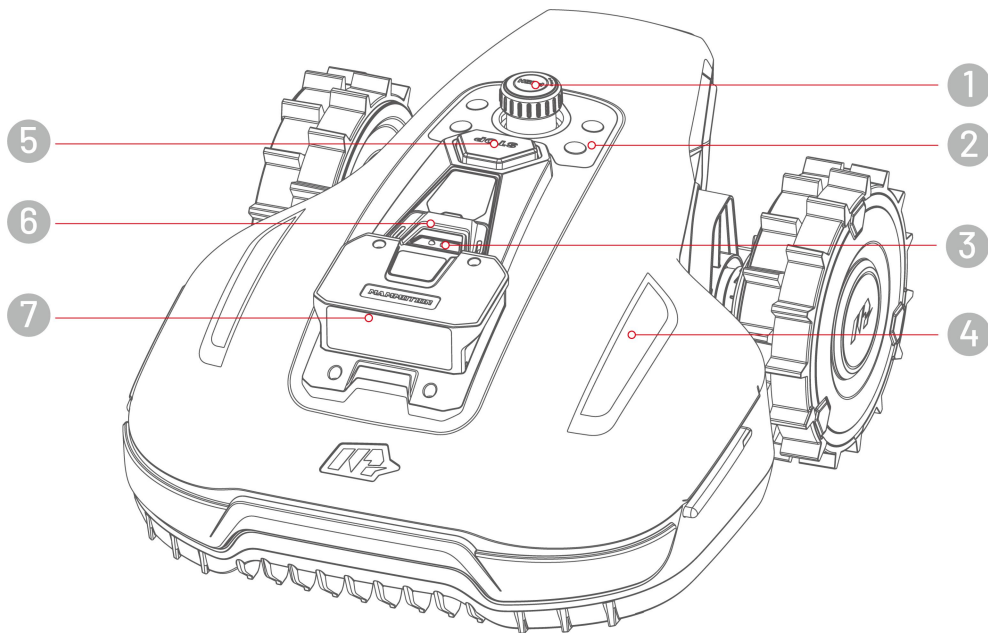


**Cable Peg x4**

## 2.2 Product Overview

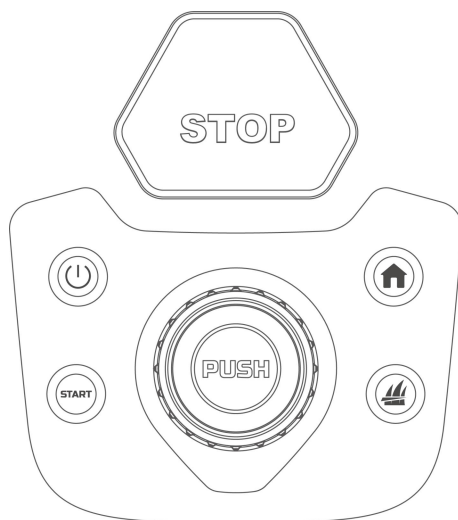
The illustrations are for reference only.







### Top View



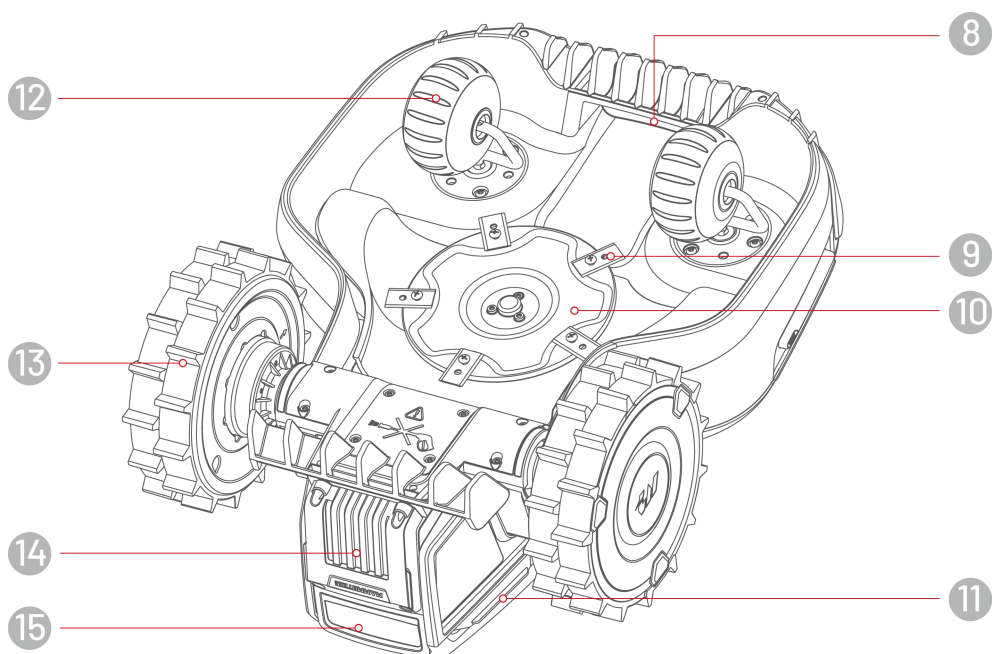
1. Cutting Height Adjustment Knob — Press and turn to adjust cutting height
2. Control Center
3. Rain Sensor
4. Side LED
5. STOP Button
6. Security Key — Do not lift the robot from this point
7. Vision Module — Triple Cameras

## Control Center



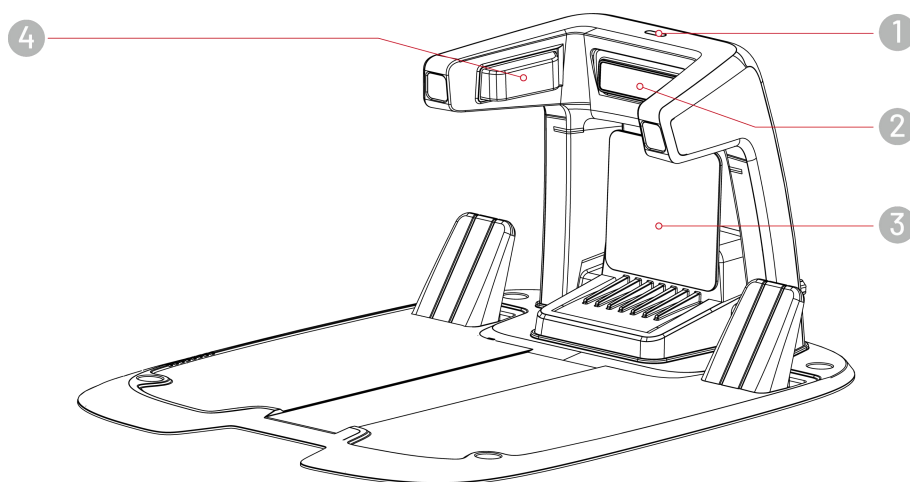
- Press , then press  to return to the charging station.
- Press , then press  to start or continue a task.
- Long press the button  to turn on/off the robot.
- Double-press  within 2s to unlock only the robot after an emergency stop.
- If any unexpected problems arise, press the **STOP** button to stop the robot immediately.

## Bottom View



- 8.** Handle
- 9.** Cutting Blade
- 10.** Cutting Disc
- 11.** Charging Contact
- 12.** Front Wheel
- 13.** Rear Wheel
- 14.** Removable Battery
- 15.** Infrared Receiver

## Charging Station



1. LED Indicator
2. Infrared Transmitter
3. Marker
4. Charging Contact

## 2.3 LED Indicator Codes

### YUKA mini Vision

Indicator	Color	Description
Side LED	Solid green	The robot is functioning properly.
	Breathing green	<ul style="list-style-type: none"><li>● OTA upgrade in progress.</li><li>● The robot is charging.</li></ul>
	Blinking blue	<ul style="list-style-type: none"><li>● STOP Button activated.</li><li>● Low battery.</li><li>● The robot got stuck.</li><li>● Security key not properly installed.</li><li>● The robot has been lifted/tilted/flipped over.</li></ul>
	Solid red	<ul style="list-style-type: none"><li>● The robot system malfunction.</li><li>● The robot system upgrade failed.</li></ul>
	Off	<ul style="list-style-type: none"><li>● The robot is turned off.</li><li>● The robot is sleeping.</li><li>● The side LED is turned off in the app.</li><li>● The robot is in manual control mode but is currently inactive.</li></ul>

## Charging Station

Color	Description
Blinking green	The robot is docked at the charging station.
Solid green	The robot is not at the charging station.
Solid red	The charging station malfunction.
Off	No power supply.

## 2.4 How YUKA mini Vision Works

YUKA mini Vision uses built-in cameras to capture real-time images and generate a digital map of your lawn. With smart visual technology, it continuously tracks its position by recognizing key features in the environment. The system accurately identifies grass areas, boundaries (such as sidewalks or flower beds), and no-go zones.

Additionally, the robot detects both static (e.g., rocks, toys) and dynamic (e.g., pets, people) obstacles, automatically adjusting its path in real time to avoid collisions and ensure smooth, uninterrupted operation.

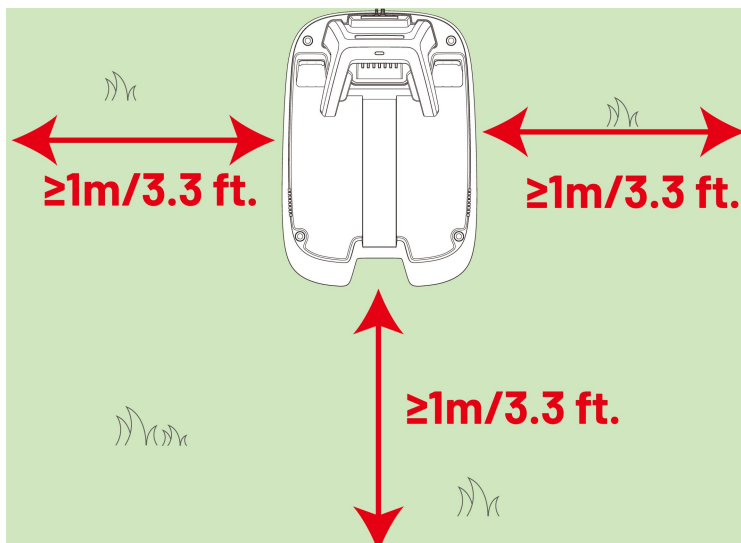
## 3 Installation

### 3.1 Choosing a Location for Charging Station

The charging station is where your robot parks and recharges.

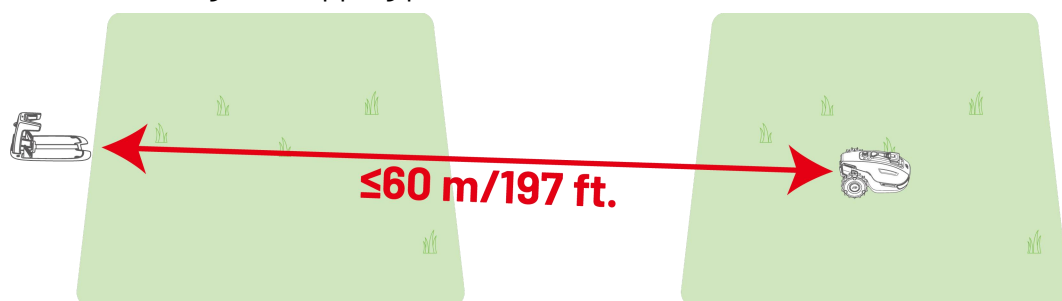
To ensure smooth docking and charging, please make sure the following conditions are met:

- **Flat surface:** The area should be free from significant bumps, slopes, or rocks.
- **Nearby power source:** An accessible power outlet is essential.
- **Strong Wi-Fi signal:** Both 2.4 GHz and 5 GHz networks are supported.
- **Well-lit area:** Good lighting helps the robot navigate.
- **Clear surroundings:** There should be no obstacles (like trees or houses) within 1 meter (3.3 feet) to the left, right, and front of the charging station.

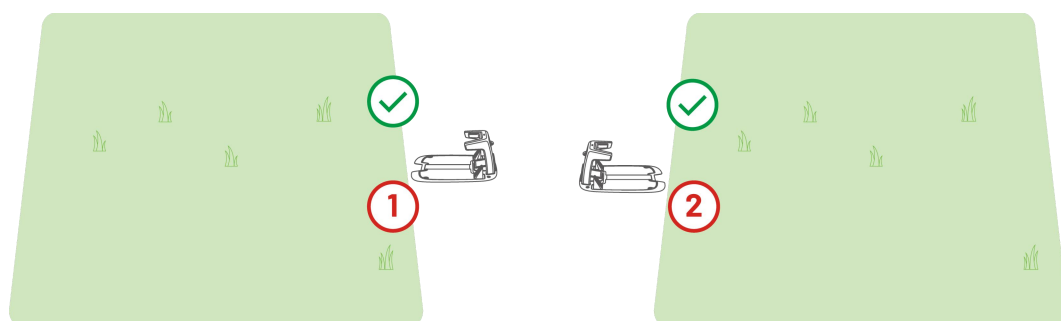




- **Within 60 m (197 ft.):** For the most accurate positioning, keep the distance between the charging station and the lawn under 60 meters (197 feet) during the mapping process.

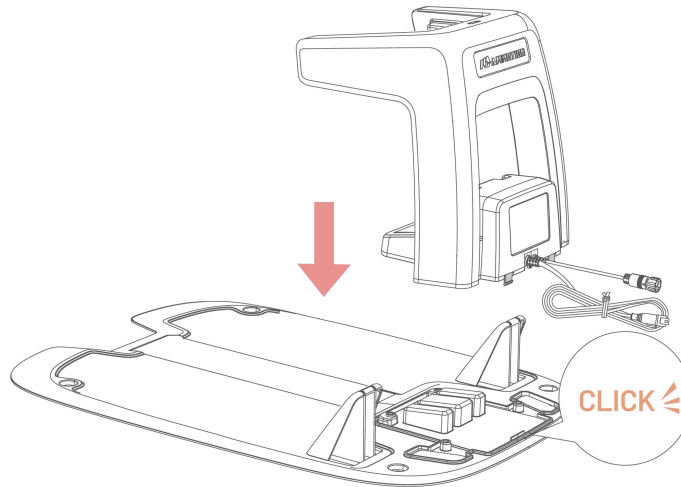


If you have more than one lawn, Mammotion recommends placing the charging station between them for optimal performance.

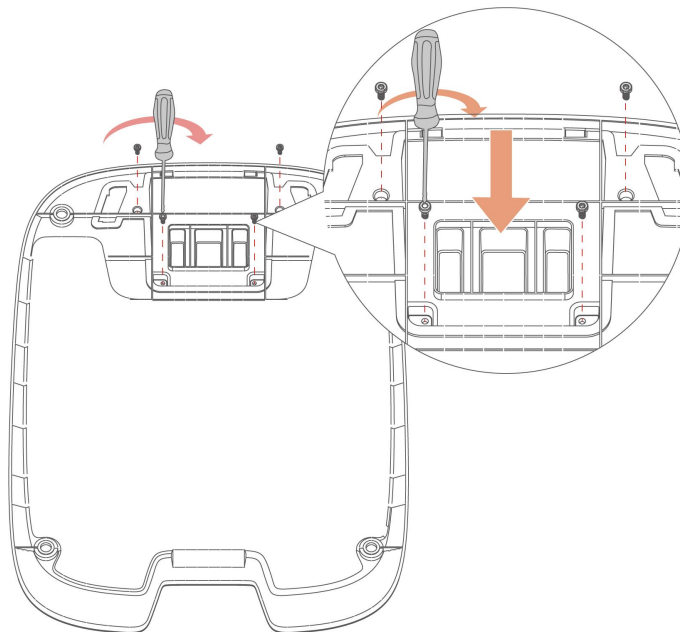


## 3.2 Install

1. Insert the charging tower into the charging base plate until you hear a CLICK sound.



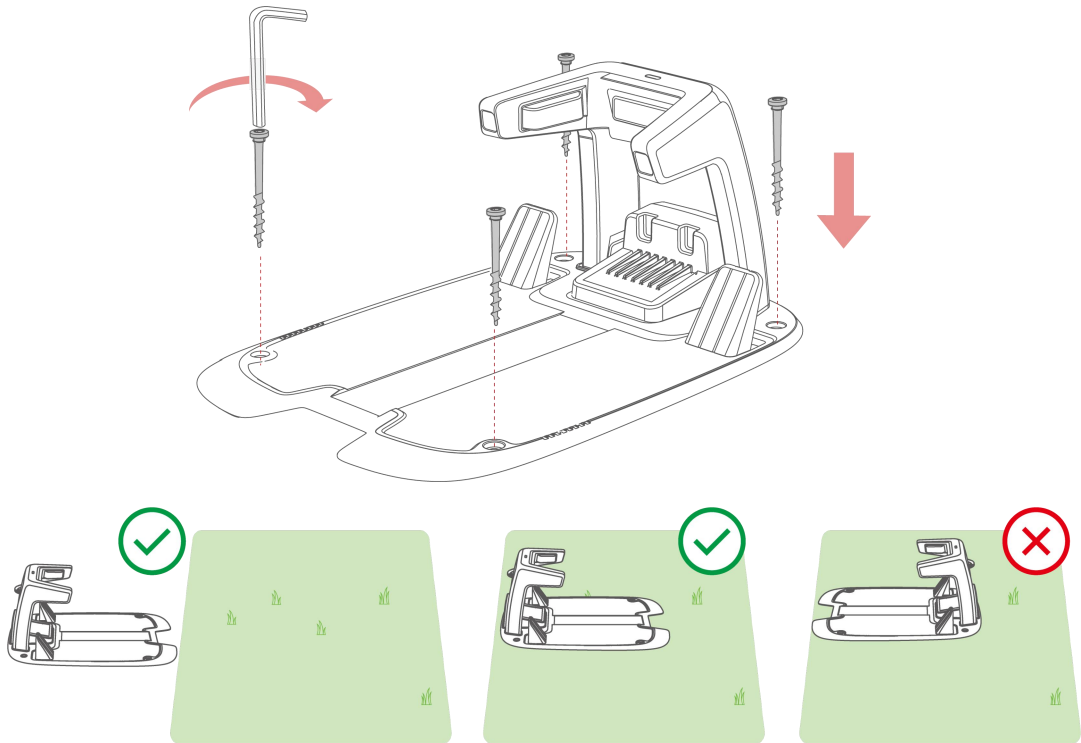
2. Install and tighten the four screws from the bottom of the charging base plate using the screwdriver with the T20 bit.



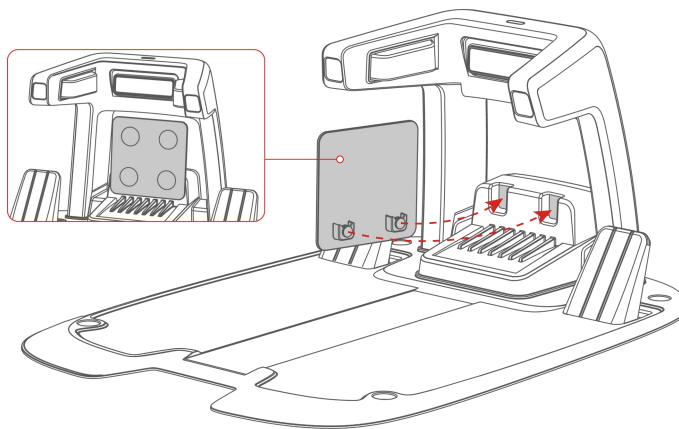
3. Use the four stakes to properly fasten the charging station in the position.  
Make sure the charging station is facing the lawn.



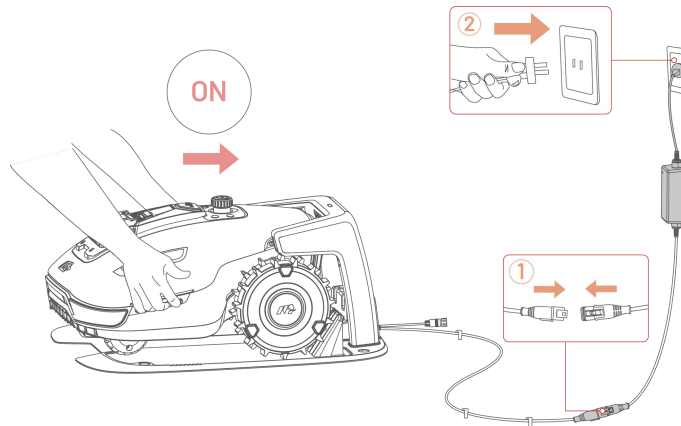
**NOTE:** If the charging station is installed on a concrete surface, please secure it with expansion bolts (not included).



4. Install the marker.



5. Connect the charging station cable (the longer one) with the charging station power supply.
6. Plug the charging station power supply into the wall socket.
7. Place the robot on the charging station to begin charging, the side LEDs light green.

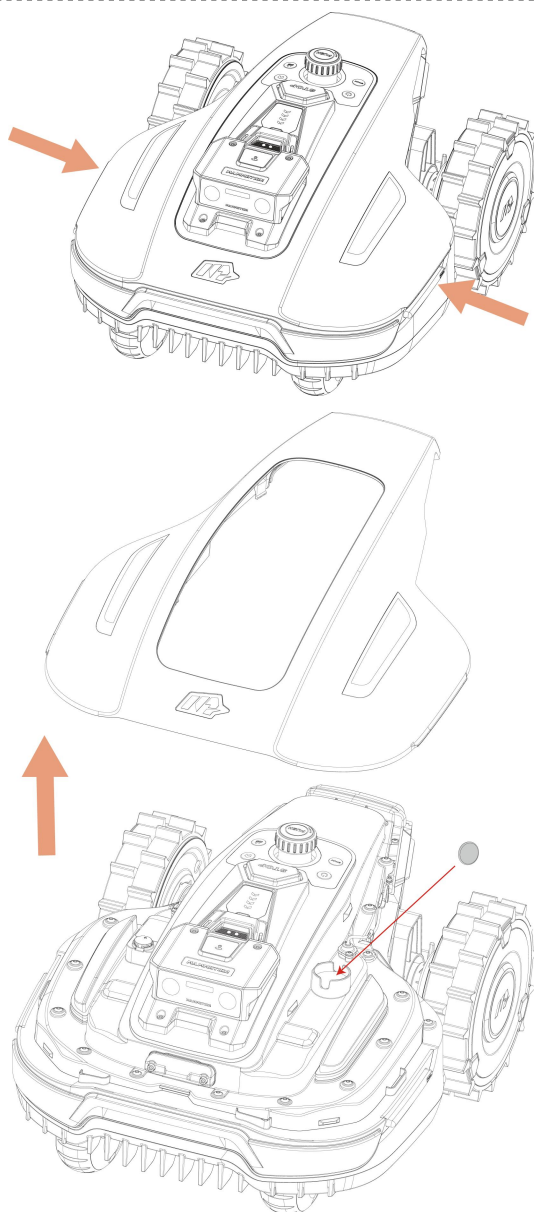


**NOTE:** Charge the robot for initial use to activate it.

## Install AirTag (Optional)



**NOTE:** AirTag is not included. The Mammotion app does not support AirTag functionality.



## 4 Operation

YUKA mini Vision is designed to work seamlessly with the Mammotion app.

Using the app, you can:

- Map your lawn and define task areas
- Set up and manage mowing tasks
- Monitor the robot's status in real time
- Receive alerts and notifications
- Manually control the robot when needed

For the best performance, ensure your mobile device has a stable internet connection and that the app is updated to the latest version.

We've highlighted some features in this chapter. Please explore the app to discover more.

### 4.1 Preparation



#### Download Mammotion App

You can scan the QR code below to get it from the Android or Apple app stores, or search for Mammotion in these stores.





After installing the app, please sign up and log in. During use, the app may ask you for Bluetooth, Location, and local network access when necessary. For optimal use, it is recommended to allow the above access. For more information, please refer to our Privacy Agreement. Go to Mammotion app >

## **Me > About Mammotion > Privacy Agreement.**

If you want to log in with a third-party account, tap  or  on the login page to continue. Mammotion app now supports logging in with Google and Apple accounts.



### **Trademark Notice:**

The icon "" is the trademark of Google LLC. The icon "" is the trademark of Apple Inc. All trademarks mentioned in this manual are the property of their respective owners, retaining their trademark rights.

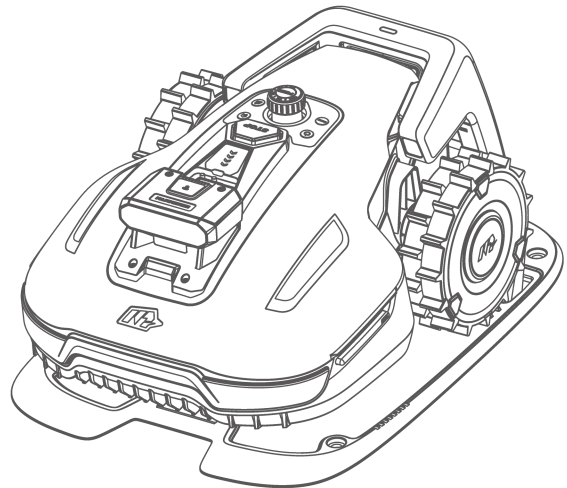
## 4.2 Add Your Product

**NOTE:**



- Make sure the distance between your phone and the device is less than 3 m (10 ft.).
- If you're using 4G cellular data, you can skip the Wi-Fi setup, but connecting to Wi-Fi is recommended for optimal performance.

1. Tap **+** to add your robot.
2. Select **Add**.
3. Follow the onscreen guidelines to set up the device.
4. Follow the onscreen instructions to connect the device and set network successfully.
5. Follow the onscreen instructions to activate the built-in SIM card.

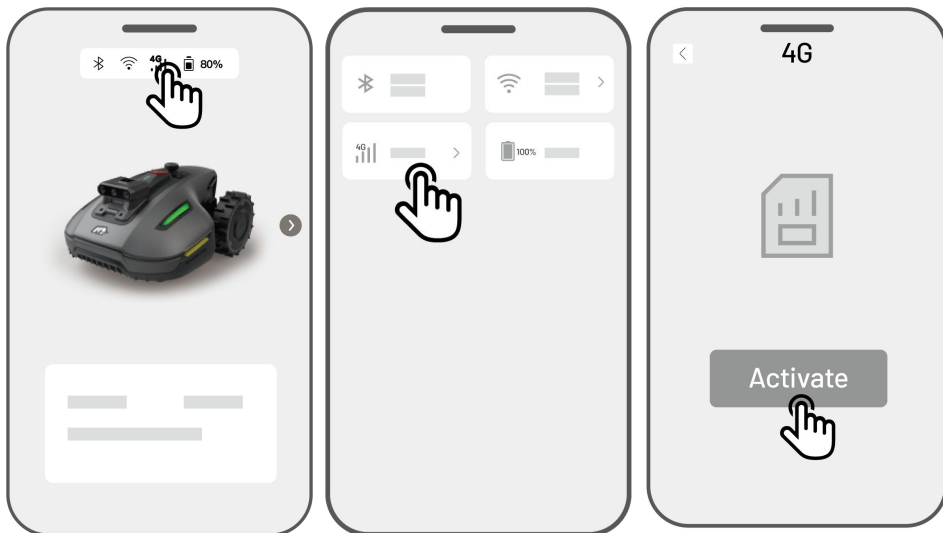




## 4.3 Activate SIM Card

If you didn't activate the SIM card during the device binding process, you can do so by tapping the Status Bar on the Home page:

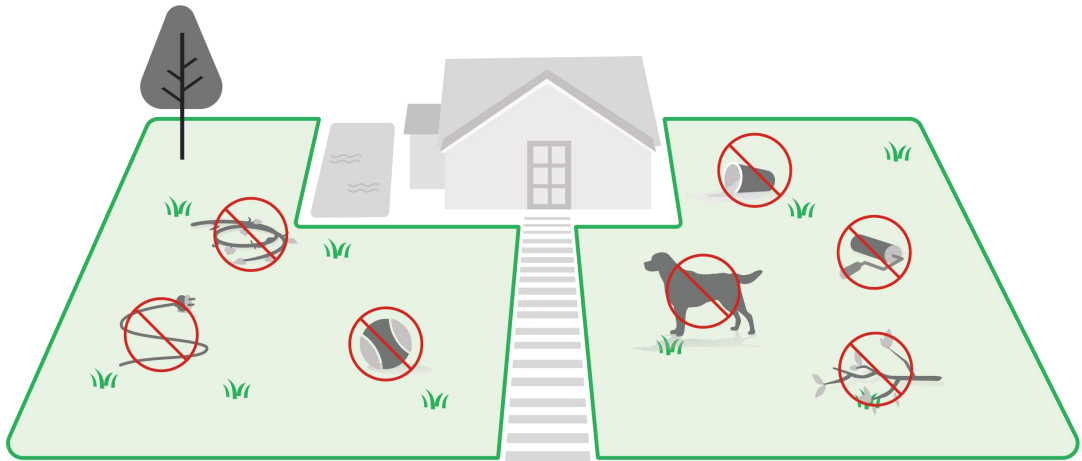
1. Tap the **Status Bar** on the Home page.
2. Tap the **4G status** button.
3. Tap **Activate** and wait for the activation to complete successfully.



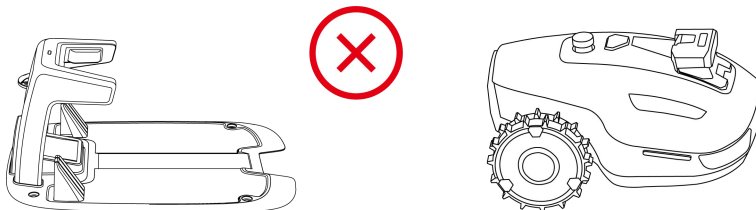
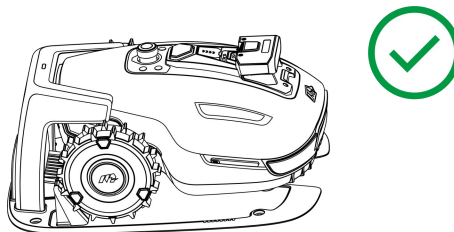
## 4.4 Initial Use

### Preparation

- Remove debris, piles of leaves, toys, wires, stones, and other obstacles from the lawn.
- Make sure no children or animals are on the lawn.

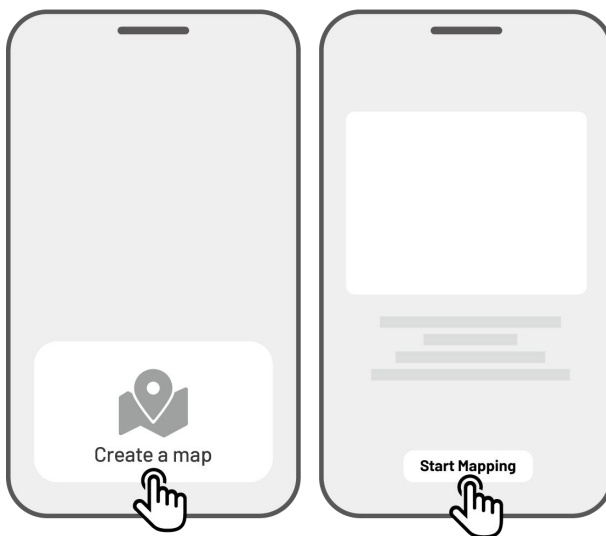


- Ensure the robot is properly docked at the charging station to enable calibration. Make sure the side LED lights green.



## Map Your Lawn

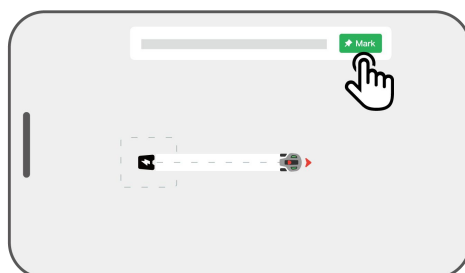
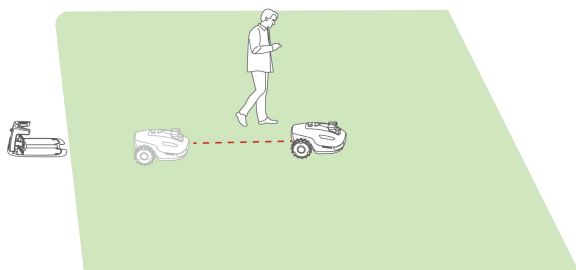
1. Tap **Create a Map** on the Home page.
2. Read and follow the in-app instructions to ensure your robot is ready.
3. Tap **Start Mapping**. The robot will undock and rotate 360° to check its surroundings.



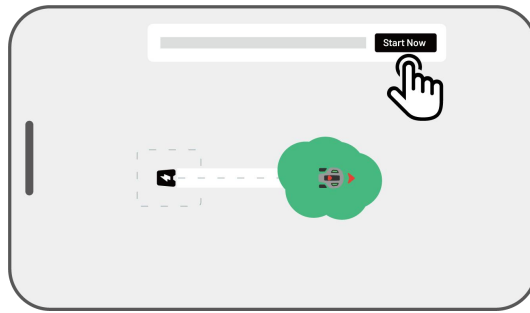
4. Tap **Mark** to mark your first lawn. If you only have one lawn, skip the next step.
5. To add more lawns, drive the robot to each new lawn and tap **Mark** again.



**NOTE:** A channel between lawns will be generated as the robot moves. Please avoid detours.



6. Tap **Start Now** to complete setup and start mapping.



7. Tap **Finish** to save your setup.



**IMPORTANT:**

All lawns must be marked in one session. Adding new lawns afterward requires deleting the existing map and remapping.

# Lawn Settings

## Virtual Fence

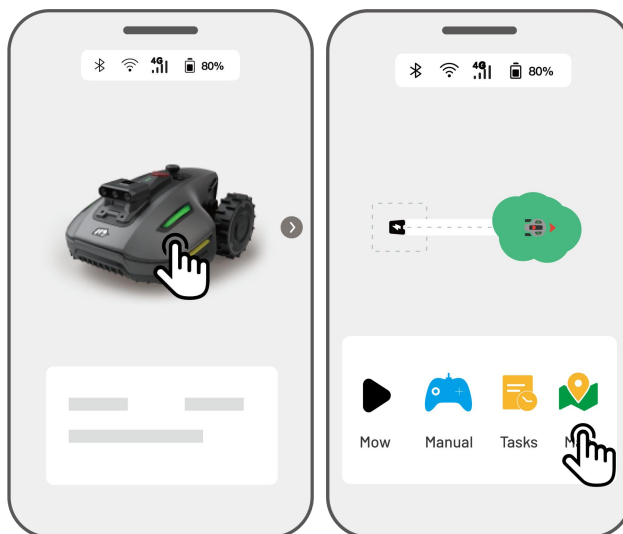
A Virtual Fence defines perimeters or restricts access to specific areas, acting like an invisible barrier.

Recommended use cases include (but are not limited to):

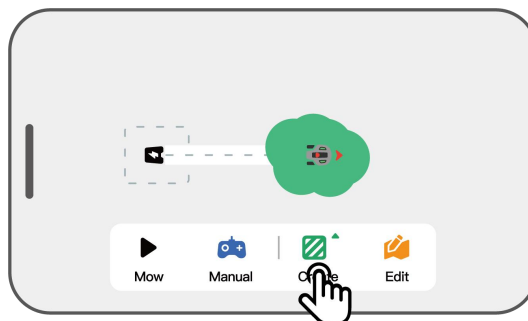
- Lawns with unclear or undefined perimeters.

### To set a virtual fence

1. Tap the robot image to access the map page.
2. Tap **Map** to continue.

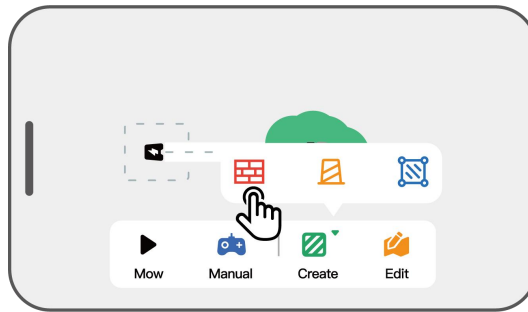


3. Tap **Create**.



4. Select **Virtual Fence** and follow the in-app instructions to finish your

setup.



**NOTE:** If the robot is working, pause it first.

## No-go Zone

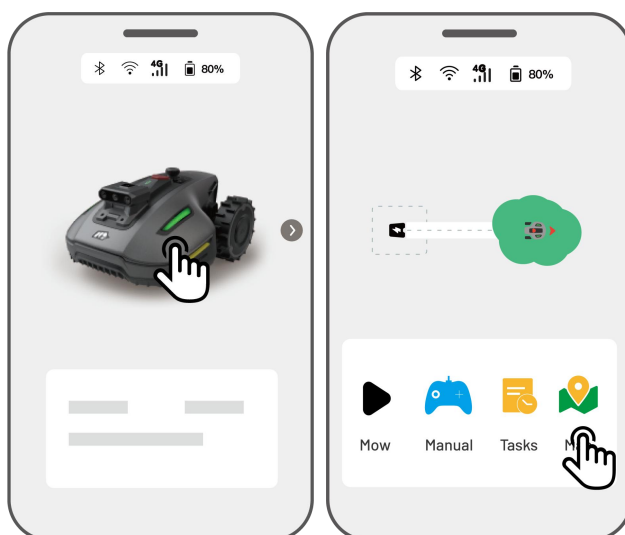
No-go Zones are areas you want your robot to completely avoid. These are crucial for protecting your robot from damage and keeping it away from sensitive or hazardous areas. The robot will not mow within these designated zones.

Recommended use cases include (but are not limited to):

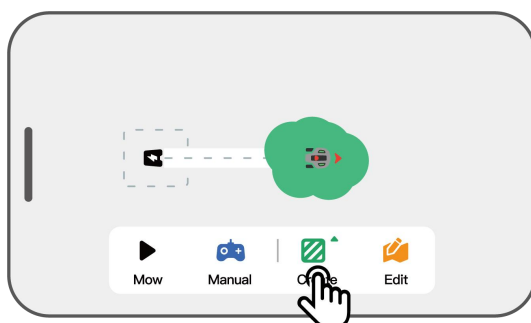
- Low flowerbeds (especially those lower than 20 cm).
- Water edges, such as fish ponds or swimming pools, especially where there is no clear boundary.
- Transparent objects, such as mosquito nets or glass doors.
- Small or low-lying obstacles, e.g., clotheslines, tent ropes, or water pipes.
- Pet houses.
- High-value or delicate plants, including crops and ornamental plants.
- Irrigation equipment, such as hoses and sprinklers.

### To set a No-go Zone

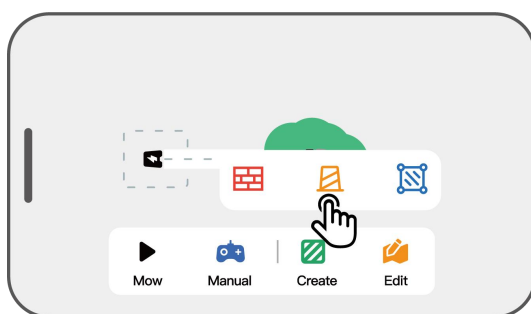
1. Tap the robot image to access the map page.
2. Tap **Map** to continue.



3. Tap **Create** in the app.



4. Select **No-go Zone** and follow the in-app instructions to finish your setup.



**NOTE:** If the robot is working, pause it first.

## Safe Zone

Safe Zones are areas where the robot is allowed and expected to mow regularly.

Recommended use cases include (but are not limited to):

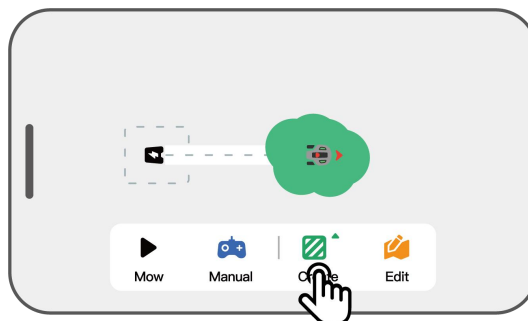
- Designate lawn areas that might be temporarily recognized as non-operational due to seasonal changes.
- Areas near low, safe obstacles.

### To set a Safe Zone

1. Tap the robot image to access the map page.
2. Tap **Map** to continue.

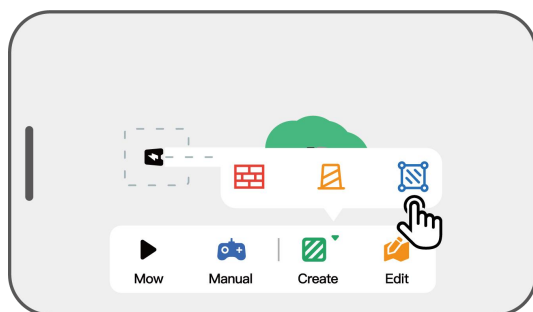


3. Tap **Create** in the app.



4. Select **Safe Zone** and follow the in-app instructions to finish your setup.

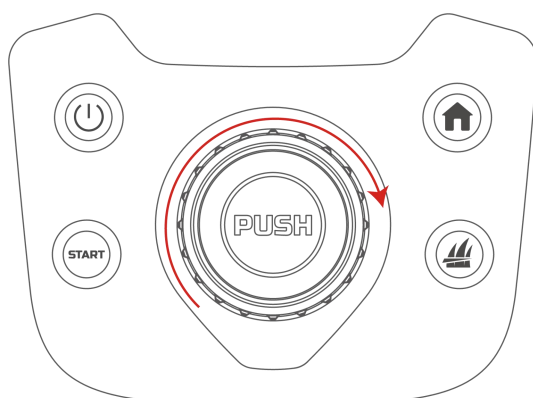




## Daily Use

### Cutting Height Adjustment

The cutting height can only be adjusted by manually pressing down and turning the **Cutting Height Adjustment Knob** on the robot before mowing.



## DropMow

DropMow offers a convenient way to mow your lawn, even if you haven't mapped the area yet. To use it, tap **Beta Features** > **DropMow** > **Start Now** through the app.

### Use DropMow when:

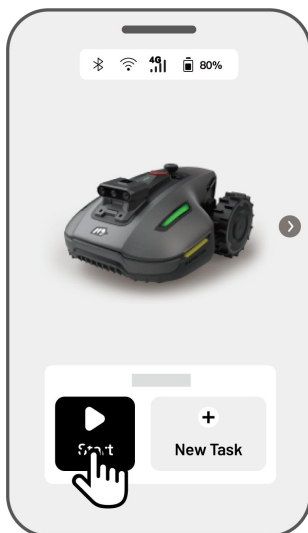
- You need to mow areas your robot can't reach via standard control.
- You have temporary mowing tasks and don't want to create a full map.



## Regular Mow

### Quick Start

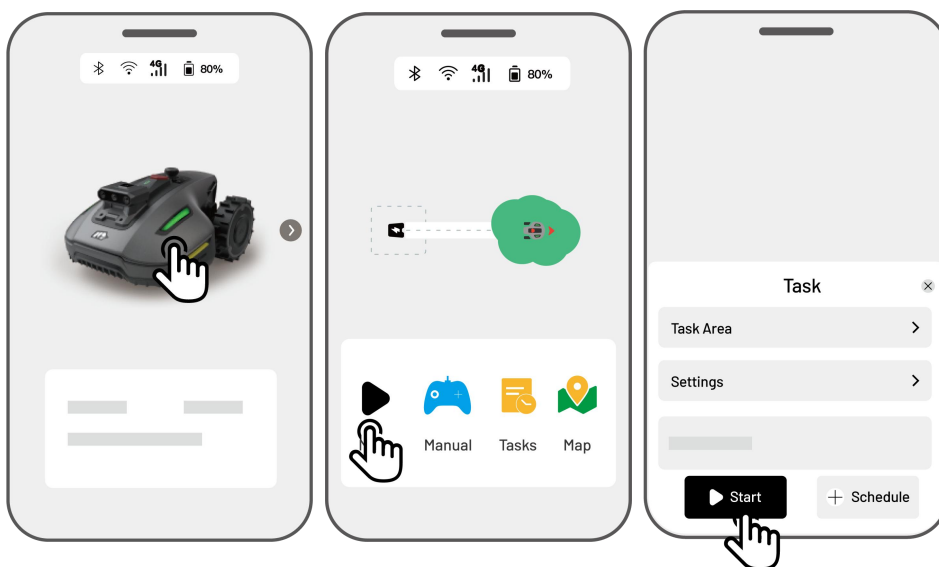
For an immediate mow with default settings, just tap the ▶ on the Home page



### Regular Start (Custom Settings)

To customize your mowing task:

1. Tap the robot image to access the map page.
2. Tap **Mow** ▶ to access the task page.
3. Tap **Task Area** to select the area that you want to mow.
4. Tap **Settings** to configure parameters.
5. Tap **Start** to commence mowing.



## Scheduled Task

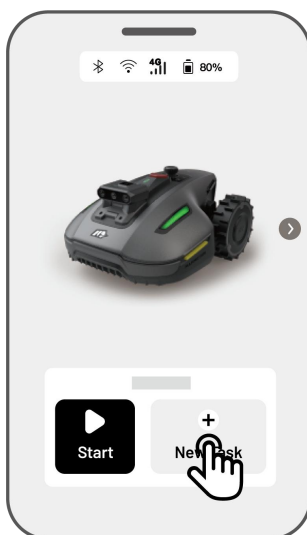


### NOTE:

- The scheduled task adding is temporarily disabled when the robot is working.
- A schedule can be set after a task area has been created.

To schedule an automatic mowing task:

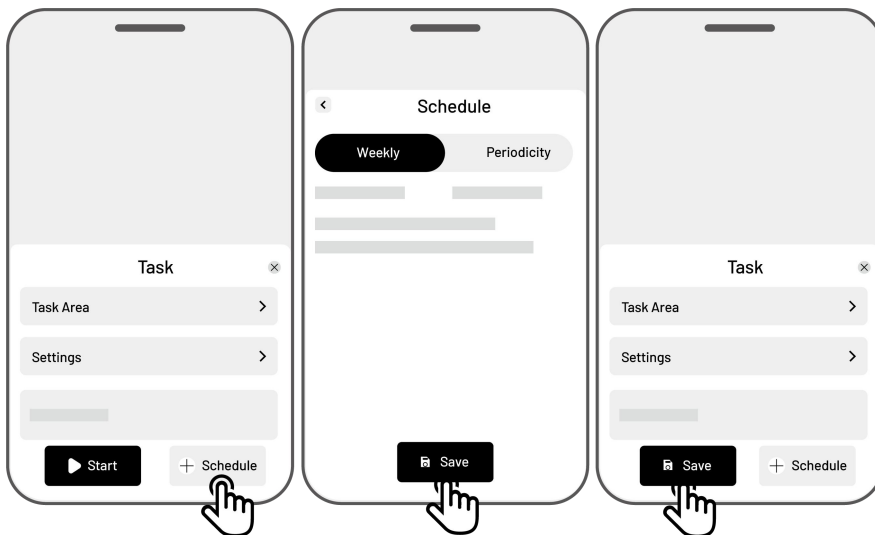
1. On the Home page, tap **+** if no task has been created yet.



Or, on the Map page, tap **Tasks**, then tap **New Task**.



2. Tap **Task Area** to select the area to mow.
3. Tap **Settings** to configure parameters.
4. Tap **Schedule** to set the date and time, then tap **Save**.
5. Finally, tap **Save** again to confirm and save your scheduled task.





## Recharge

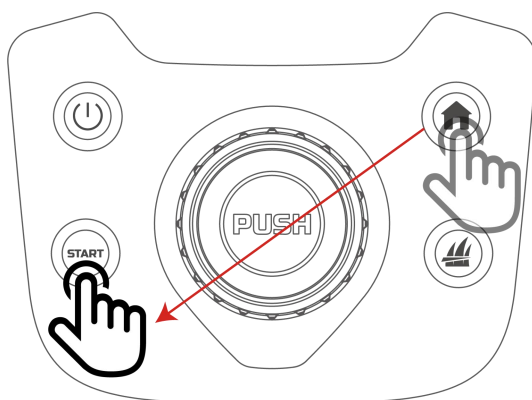


### NOTE:

When performing the recharge function, the robot must be in the task area.

## To Perform Recharge


- Tap  on the Map page in the Mammotion app, or
- Press the button  on the robot, then press **START** to guide robot to the charging station.

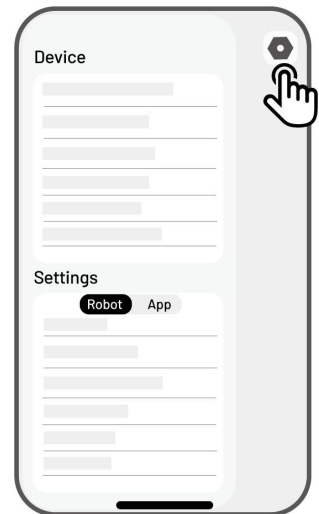


## 4.5 Upload Logs

If you encounter any issues during use, you can upload the corresponding logs to help our technical support team diagnose and resolve the problem efficiently.

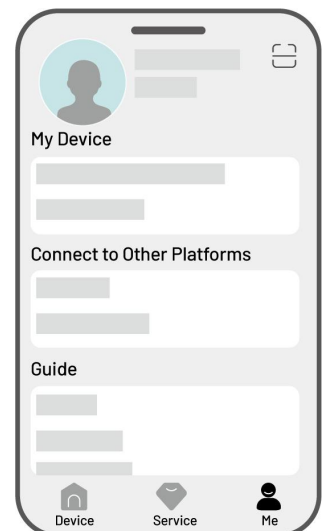
### To upload logs

1. Tap  to enter the Settings page.
2. Tap **Upload Logs** and follow in-app instructions to complete the process.



### Alternatively:

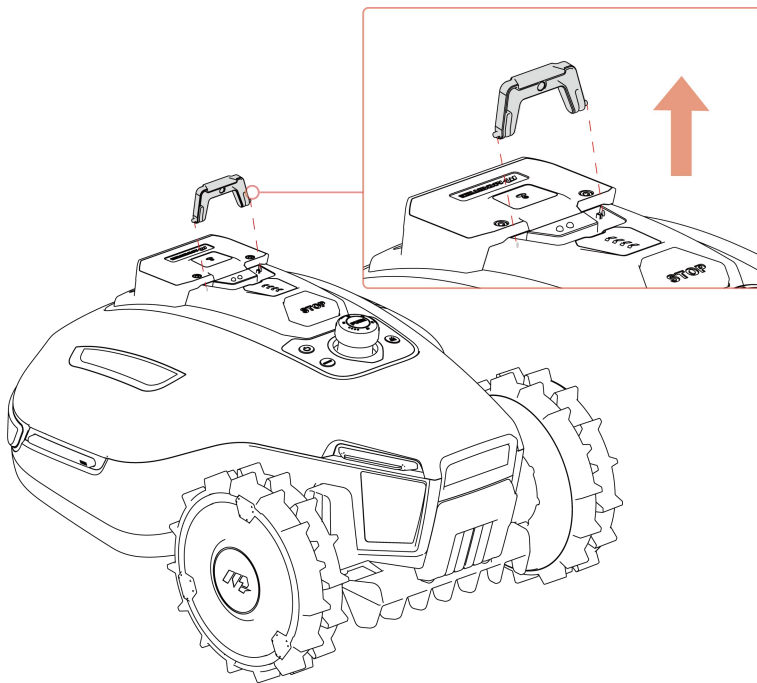
Go to **Me** > **Upload Logs**, and follow the in-app instructions to finish the upload.



## 5 Maintenance

To maintain optimal mowing performance and extend the lifespan of your robot, Mammotion advises performing regular inspections and maintenance weekly. For safety and effectiveness, always wear protective clothing such as trousers and work shoes; avoid wearing open sandals or going barefoot during maintenance.

Before maintenance, turn off the robot and remove the security key.





## 5.1 Cleaning



### **WARNING:**

- Ensure the robot is completely powered off before beginning any cleaning work.
- Always power off the robot before turning it upside down.
- When turning the robot upside down, handle it with care to avoid damaging the vision module.

### **Clean Robot**

#### **Housing**

Use a soft brush or a damp cloth to clean the robot's housing. Avoid using alcohol, gasoline, acetone, or other corrosive or volatile solvents, as they may damage the robot's appearance and internal components.

#### **Bottom**

Wear protective gloves while cleaning the chassis and cutting disc. Use a brush to remove debris. Check for blade damage and ensure that the blades and cutting disc can rotate freely. DO NOT use sharp objects to clean the bottom.

#### **Front Wheels**

Clean the front wheels using a brush or water hose. Remove the mud if any.

#### **Rear Wheels**

Regularly clean the rear wheels with a brush or water hose if they become too dirty.

#### **Vision Camera**

Wipe the vision camera lens with a microfiber cloth to remove any stains. A

clean lens is crucial for the performance of the vision module.

## Clean Charging Station

Use a brush and cloth to clean the infrared transmitter and the charging contact.

## 5.2 Maintenance for Cutting Blades and Motor

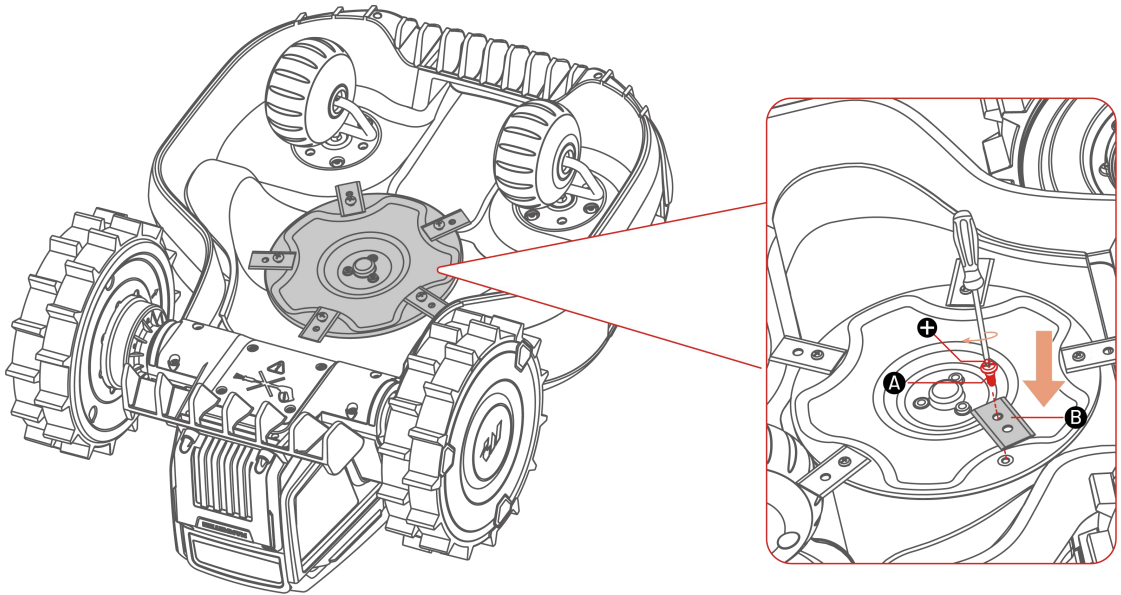
### WARNING:



- Always wear protective gloves when inspecting, cleaning, or replacing the cutting blade.
  - DO NOT use an electrical screwdriver to tighten or loosen the cutting disc. Always use the correct screws and original blades approved by Mammotion.
  - Replace all cutting blades and their screws simultaneously to ensure a safe and effective cutting system.
  - DO NOT reuse the screws, which may cause serious injury.
- To ensure optimal performance during long-term storage, keep the hub motor shaft dry and clean. Regular maintenance of the motor shaft helps prevent dirt and moisture buildup, which can affect the motor's function. The motor has an expected lifespan of 1500 hours of operation.
  - Blades are considered wear parts and should be replaced if they become severely worn. It is recommended to replace the cutting blades every 3 months or after 150 hours of use. For thicker grass, more frequent blade replacement may be necessary.
  - Wet grass is more likely to stick to the blades and bottom of the robot, which can impair performance and lead to the need for more frequent cleaning. For optimal performance and long-term lawn health, it is recommended to avoid mowing during heavy rain or when the grass is excessively wet.

## How to replace a cutting blade

1. Turn off the robot.
2. Place the robot on a soft, clean surface, ensuring it is in an upside-down position. Please take care not to press on the vision module.
3. Remove the old cutting blades with the included screwdriver with Phillips bit.
4. Install the new cutting blades **(B)** using the included screws **(A)**. Ensure that the blades can rotate freely and are securely installed.



## 5.3 Battery Maintenance

- Maintain the battery fully charged before long-term storage to prevent over-discharge.
- Charge fully every 90 days, even if it is not in use.
- Ensure the charging ports on the robot are clean and dry before storing or charging.

## 5.4 Winter Storage

To ensure your robot is in optimal condition for the next mowing season, store the robot and charging station properly. If the ambient temperature drops below -20°C (-4°F) during winter, keep the robot and charging station indoors.

### Store Robot

- Control the robot off the charging station, ensuring the robot has been fully charged.
- Power off the robot.
- Clean the robot (the housing, wheels, chassis, vision module, etc.) with a damp cloth or soft brush. You can wash the robot if necessary. DO NOT turn the robot upside down to clean its chassis with water.
- Leave the robot to get dry. DO NOT turn it upside down during this process.
- Apply anti-corrosion lubricant to the charging pads. DO NOT apply the chemicals to any other parts of the robot, especially metal contact areas, except for the connectors.
- Store the robot indoors.

## **Store Charging Station**

- Disconnect the power supply.
- Remove the stakes.
- Use a brush and cloth to clean the charging station thoroughly.
- Remove the charging station and the power supply.
- Store the charging station and the power supply indoors.

# 6 Product Specifications

## 6.1 Technical Specifications

### General Specifications

Parameters	YUKA mini Vision
	YMVS1
Mowing Area	700 m <sup>2</sup> (0.17 acre)
Max. Multi-zone Management	3
Engine	2 Wheel-drive
Max. Climbing Ability	45% (24°)
Vertical Obstacle Passing Ability	35 mm (1.4 in)
Cutting Width	190 mm (7.5 in)
Cutting Disc	1
Cutting Height Adjustment	20-60 mm (0.8-2.4 in)
Charging Time	115 min
Mowing Time per Charge	120 min
Auto-recharge	YES
Positioning & Navigation	Triple-Camera AI Vision System

Parameters	YUKA mini Vision
	YMVS1
<b>Obstacle Avoidance</b>	Triple-Camera AI Vision System
<b>Voice Control</b>	Alexa & Google Assistant
<b>Vision Monitoring</b>	YES
<b>Connectivity</b>	4G & Bluetooth & Wi-Fi
<b>Charging Station</b>	CHG2310
<b>A weighted sound power</b>	$L_{WA}=65\text{dB}$ , $K_{WA}=3\text{dB}$
<b>A weighted sound pressure</b>	$L_{PA}=57\text{dB}$ , $K_{PA}=3\text{dB}$
<b>Waterproof</b>	Robot & Charging Station: IPX6
<b>Rain Detection</b>	YES
<b>OTA Upgrade</b>	YES
<b>GPS Theft Tracking</b>	YES
<b>Geo-fence Alarm</b>	YES
<b>Vision Geo-fence</b>	YES
<b>Recommended Operation Temperature</b>	5-40°C (41-104°F)
<b>Recommended Store Temperature</b>	-10-40°C (14-104°F)
<b>Net Weight</b>	10.6 kg (23.4 lbs.)
<b>Dimensions (L x W x H)</b>	525 x 413 x 281 mm (20.7 x 16.3 x 11.1 in)

## YUKA mini Vision Onboard Operating Bands Specifications (EU)

Operating Frequency		Maximum Transmitter Power
BLE	2400-2483.5MHz	<20dBm
Wi-Fi	2400-2483.5MHz	<20dBm
	5550-5700MHz	<20dBm
	5745-5825MHz	<13.98dBm
LORA	863.1-869.85MHz	<13.98dBm
GNSS	1559-1610MHz	/

## YUKA mini Vision 4G Module (Model: MC230) Operating Bands Specifications (EU)

Operating Band	Frequency	Max. Conducted Power
GSM900	Tx:880-915MHz, Rx:925-960MHz	35dBm
DCS1800	Tx:1710-1785MHz, Rx:1805-1880MHz	32dBm
WCDMA Band I	Tx:1920-1980MHz, Rx:2110-2170MHz	25dBm
WCDMA Band VIII	Tx:880-915MHz, Rx:925-960MHz	25dBm
LTE Band 1	Tx: 1920-1980MHz; Rx: 2110-2170MHz	25dBm
LTE Band 3	Tx: 1710-1785MHz; Rx: 1805-1880MHz	25dBm
LTE Band 7	Tx: 2500-2570MHz; Rx: 2620-2690MHz	25dBm



<b>Operating Band</b>	<b>Frequency</b>	<b>Max. Conducted Power</b>
LTE Band 8	Tx: 880-915MHz; Rx: 925-960MHz	25dBm
LTE Band 20	Tx: 832-862MHz; Rx: 791-821MHz	25dBm
LTE Band 28	Tx: 703-748MHz; Rx: 758-803MHz	25dBm
LTE Band 38	Tx: 2570-2620MHz; Rx: 2570-2620MHz	25dBm
LTE Band 40	Tx: 2300-2400MHz; Rx: 2300-2400MHz	25dBm

## Battery Specifications

<b>Parameters</b>	<b>YUKA mini Vision</b>
<b>Battery charger</b>	TS-A081-2703002 Input: 100-240V~, 50/60Hz, Max. 2A Output: 27Vdc, 3A, 81W
<b>Battery pack</b>	21.6Vdc, 4.5Ah
<b>Battery capacity</b>	4.5Ah
<p><b>The temperature range for charging is 4-45 °C / 39-113 °F. Too high temperatures might cause damage to the product.</b></p>	
<p><b>WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance.</b></p>	

## 6.2 Fault Codes

The app notification displays common fault codes along with their causes and troubleshooting steps. Here lists the most common issues.

<b>Fault Codes</b>	<b>Causes</b>	<b>Solutions</b>
<b>316</b>	The left cutting disc motor is overheating.	The machine will return to normal once the motor has cooled down. This process may take several minutes.
<b>318</b>	The sensor for the left cutting disc motor has failed.	Restart the robot. If the issue persists after a few times of restart, contact the after-sale team.
<b>323</b>	The right cutting disc motor is overloaded.	Check if the cutting disc is jammed and clear it if necessary. Alternatively, raise the cutting height.
<b>325</b>	The right cutting disc motor fails to start.	Check whether the cutting disc is jammed. If not, restart the robot. If the issue persists after a few times of restart, contact the after-sale team.
<b>326</b>	The right cutting disc motor is overheating.	Restart the robot. If the issue persists after a few times of restart, contact the after-sale team.
<b>328</b>	The sensor for the right cutting disc motor has failed.	Restart the robot. If the issue persists after a few times of restart, contact the after-sale team.
<b>1005</b>	Low battery	The robot will continue working after the battery is charged to 80%.
<b>1300</b>	The positioning status is poor.	Await the robot's repositioning.

<b>Fault Codes</b>	<b>Causes</b>	<b>Solutions</b>
<b>1301</b>	The charging station has been moved.	Relocate the charging station.
<b>1420</b>	Timeout occurred while retrieving wheel speed data.	Restart the robot. If the issue persists, contact the after-sale team.
<b>2713</b>	Charging has been stopped due to low battery voltage.	Restart the robot. If the issue persists after a few times of restart, contact the after-sale team.
<b>2726</b>	The battery is overcharged.	Stop charging immediately. If overcharging occurs frequently, contact the after-sale team.
<b>2727</b>	The battery is over discharged.	Recharge the robot.

## 7 Warranty

Shenzhen Mammotion Innovation Co., Ltd warrants that this product will be free from material and workmanship defects under normal use in accordance with the product materials published by Mammotion during the warranty period. The published product materials include but not limited to user manual, quick start guide, maintenance, specifications, disclaimer, in-app notifications, etc. The warranty period varies among different products and parts. Check the table below:

Component	Warranty
Host and Core	3 Years
Battery	
Charging station	

If the product does not function as warranted during the warranty period, please contact Mammotion customer service for instructions.

- For products purchased from a local dealer, kindly reach out to the dealer first.
- Users must present a valid proof of purchase, receipt, or order number (for Mammotion Direct Sales). The Serial Number of the product is crucial for initiating warranty service.
- Mammotion will make every effort to address concerns through phone calls, email, or online chat.
- In some cases, Mammotion may advise you to download or install specific software updates.
- If issues persist, you may need to send the product to Mammotion for further assessment or to a local Mammotion-appointed service center.

- The warranty period for the product commences from the original date of purchase indicated on the sales receipt or invoice.
- For pre-ordered products, the warranty period begins from the shipping date from the local warehouse.
- Mammotion will need users to arrange the shipment by themselves if users would like to send the products to local service center or Mammotion factory for further diagnosis. Mammotion will repair or replace and send back to users at no cost if the problem falls under the warranty. If not, Mammotion or designated service center may charge a fee accordingly.

**Here puts some examples of faults that warranty will not cover:**

- Failure to follow the instructions outlined in the user manual.
- If the product arrives damaged during shipment and is not rejected upon delivery, or if no official documentation confirming the damages is provided by the shipping company. Inability to provide evidence of damage occurring during transit.
- Product malfunction due to accidents, misuse, abuse, natural disasters like floods, fires, earthquakes, exposure to food or liquid spills, incorrect electrical charging, or other external factors.
- Damage resulting from using the product in ways not permitted or intended as specified by Mammotion.
- Modification of the product or its components that significantly alters functionality or capabilities without obtaining written permission from Mammotion.
- Loss, damage, or unauthorized access to your data.
- Signs of tampering or alteration on product labels, serial numbers, etc.
- Failure to provide a valid proof of purchase from Mammotion, such as a receipt or invoice, or if there are suspicions of forgery or tampering with the documentation.

# 8 Compliance

## **FCC Compliance Statements**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **ISED Compliance Statements**

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé.

## **RF Exposure Compliance**

This equipment complies with FCC/IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé.

Cet émetteur ne doit pas être colocalisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

## 9 Contact Us

If you experience any issues with your Mammotion robot's operation, maintenance, safety, or encounter any faults, please contact us.

**Manufacturer:** Shenzhen Mammotion Innovation Co., Limited

9th Floor, Building A3, Nanshan Zhiyuan, No. 1001 Xueyuan Avenue,  
Changyuan Community, Taoyuan Street, Nanshan District, Shenzhen

### Asia Pacific

**Importer:** Mammotion Technology Co., Limited

Shop 28 on 1st Floor, Lee Bo Building, No.3 Tsing Ho Square, Tuen Mun, Hong Kong

support-apac@mammotion.com

Australia: (+61) 1800-991-136

Mon-Fri 9:00-17:00 (AEST)

### Europe

**Importer/Authorized Representative:** Mammotion Technik GmbH

Monschauer Str. 111.0G, 40549 Düsseldorf, Germany

support-eu@mammotion.com

Germany: (+49) 800-000-1148

France: (+33) 800-992-268

Mon-Fri 9:00-17:00 (CEST)



## **United Kingdom**

**Authorized Representative:** WSJ Product Ltd.

Unit 1 Alsopo Arcade, Brownlow Hill, Liverpool, L3 5TX, UK

[info@wsj-product.com](mailto:info@wsj-product.com)

## **North America**

**Importer:** Mammotion Technology LLC

13640 REDWOOD CT CHINO, CA 91710

support-na@mammotion.com

USA/Canada: (+1) 877-778-1164

Mon-Fri 10:00-21:00 (EST)

# 10 Simplified EU Declaration of Conformity

Hereby, Shenzhen Mammotion Innovation Co., Limited declares that the radio equipment type [Model: YMVS1] is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: <https://mammotion.com/pages/eu-declaration-of-conformity>.



**SHENZHEN MAMMOTION INNOVATION CO., LTD**

[www.mammotion.com](http://www.mammotion.com)

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