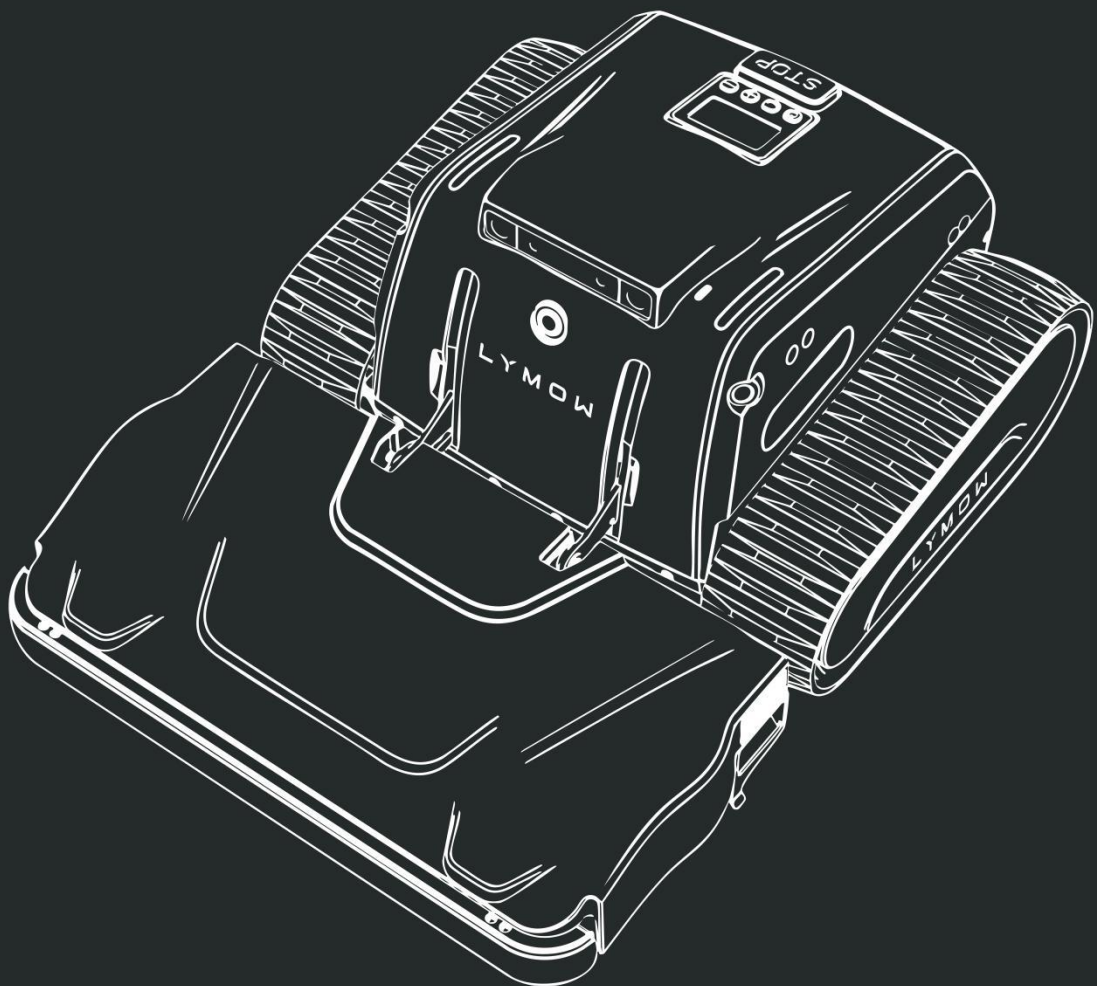


LYMOW

USER MANUAL

LYMOW ONE



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1 Safety

1.1 General Safety Instructions

- Read and fully understand this manual before using the Lymow One robotic lawn mower.
- Use the mower strictly for its intended purpose of lawn mowing. Any other usage may lead to a significant risk of injury or property damage.
- Using the mower for purposes other than mowing can bring serious injury. To avoid risks of injuries, please read and understand all the warnings and cautions. While following the instructions in this manual can reduce risks, it cannot eliminate them entirely. The operator or user is responsible for any accidents or hazards occurring to others on their property.
- Keep children, pets, and unauthorized individuals away from the mower during operation.
- Inform neighbors and visitors of the mower's presence, especially if operating the mower in public areas.
- 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 mower. Local restrictions may restrict the age of the operator. Children should be supervised to ensure that they do not play with the appliance.
- The manufacturer recommends that the operator should have sufficient physical capability and cognitive ability to safely control the machine. Be sure to get the necessary training before operating.
- Only use accessories and replacement parts recommended by the manufacturer.
- DO NOT modify the mower by yourself. Modifications could interfere with mower operations, result in serious injury and/or damage, or void the Limited Warranty.
- Avoid physical contact with the blade or moving parts until they have completely stopped.
- Do not use the mower if it shows signs of abnormal operation, such as excessive vibration or noise.
- Power off the mower before performing maintenance or adjustments.
- Use only the supplied charger to recharge the mower's battery to avoid overheating or electrical risks.
- Dispose of batteries in accordance with local regulations.
- The illustrations used in this document are for reference only. Please refer to the actual products.

1.2 Installation Safety Rules

- Install the charging station on stable, dry ground, away from foot traffic to avoid tripping hazards.
- Ensure the charging station is protected from water and placed in a shaded area to prevent overheating.
- Do not place the charging station near flammable materials, maintaining a minimum of 60 cm clearance.
- In regions prone to electrical hazards, install the power supply in a covered, weatherproof outlet.

1.3 Operation Safety Rules

- Inspect the lawn for objects like rocks, branches, or toys before starting the mower to avoid blade damage.
- Avoid operating the mower in rainy conditions or areas with standing water.
- Do not manually lift or move the mower while it is in operation.
- Press the "STOP" button immediately if the mower encounters people or pets in its path.
- Schedule the mower's operation to avoid overlap with sprinkler systems.
- Turn the mower off when not in use to conserve energy and enhance safety.

1.4 Maintenance Safety Rules

- Regularly check that all parts of the mower can function normally.
- Always turn off the mower, disconnect the battery, and remove it from the charging station before performing any maintenance.
- Use a soft cloth or brush to clean the mower. For safety, also disconnect the battery before cleaning. Do not submerge the mower in water.
- Replace blades and other components only with original manufacturer parts.
- Store the mower in a cool, dry location when not in use to prolong its lifespan.

2 Introduction

2.1 About Lymow One

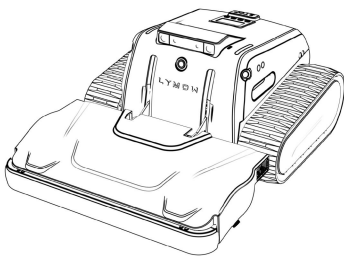
The Lymow One is a robust and intelligent mower designed for exceptional performance. Its mowing performance is comparable with traditional lawnmowers but navigates without boundary wires.

Equipped with an integrated **RTK + VSLAM navigation system**, the mower delivers high-precision positioning and reliable mapping even in complex environments. Its **Binocular AI vision system**, combined with **ultrasonic sensors**, enables intelligent and responsive obstacle avoidance for safe and autonomous operation.

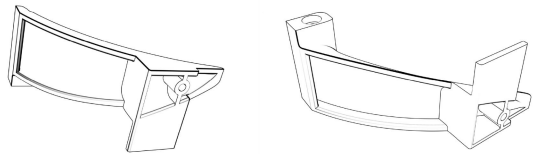
With unstoppable tracked treads capable of handling **100% (45°)** slopes, **6000 RPM** powerful **dual mulching blades** with a **16" / 400 mm** cutting path, a **528 Wh** large battery capacity. The Lymow One can cover up to **0.57 acres / 2300 m²** on a single charge, making it highly efficient for large lawns. It is designed to be capable of handling large and complex lawns, ensuring durability and reliable performance across diverse terrains.

2.2 In the Box

2.2.1 Lymow One kit



Lymow One



Side Discharge Module ×2

2.2.2 RTK reference station kit



RTK Reference Station



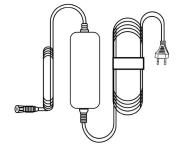
Radio Antenna



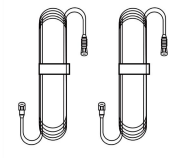
Mounting Pole



Wall Mount Bracket



RTK Power Supply



RTK Station Extension Cable
(5M) x2

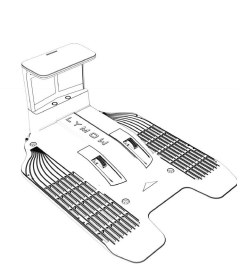


Trident Ground Stake

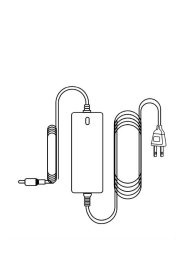


Expansion Bolt x4

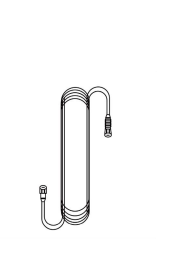
2.2.3 Charging station kit



Charging Station



Charging Station Power Supply
(2.5A)



Charging Station Extension Cable
(10M)



Ground Stake x4

2.2.4 Tool kit



Wrench 17mm



Allen Key 6mm
























Allen Key 5mm



Allen Key 4mm

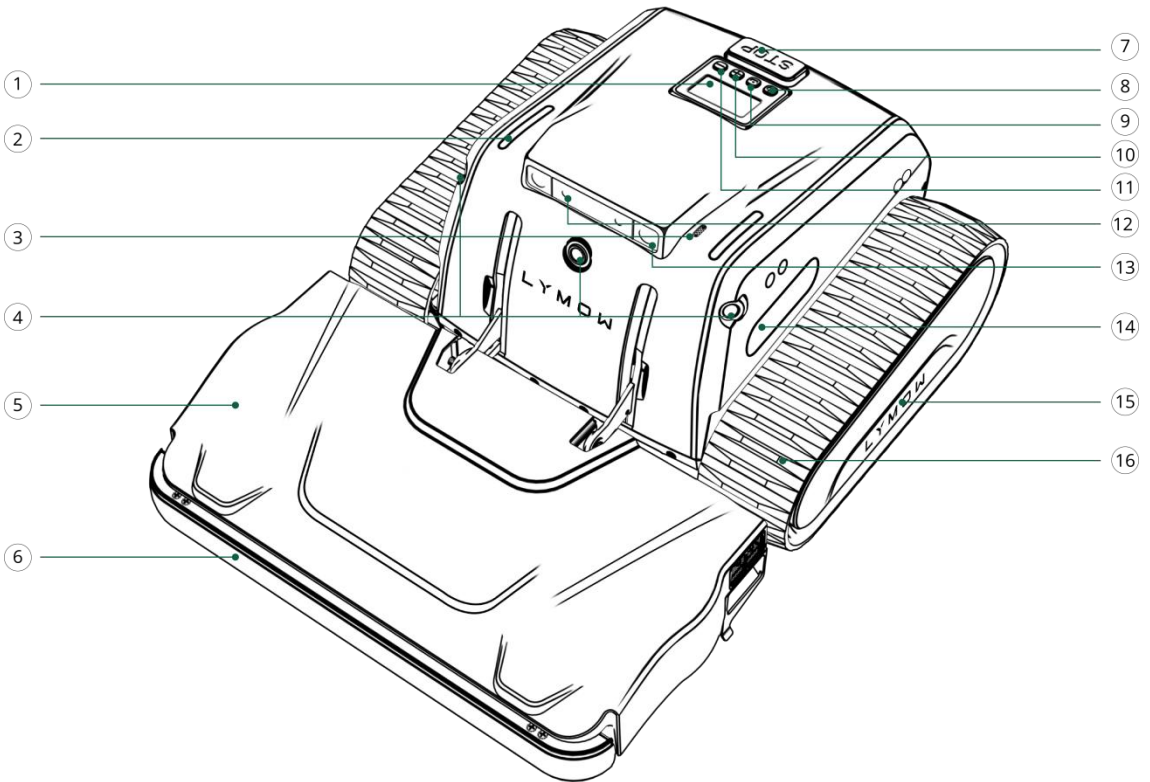
2.3 Symbols on the Product

Symbol	Description
	This product complies with FCC regulations for electromagnetic compatibility and radio frequency emissions in the United States.
	This product complies with the applicable EU Directives.
IPX6	Rated IPX6: Protected against high-pressure water jets from any direction.
	Certified by TÜV Rheinland for safety and compliance with North American standards.
UK CA	This product meets the UK Conformity Assessed (UKCA) requirements for sale in Great Britain.
	This product complies with Australian and New Zealand regulatory requirements for electrical safety and electromagnetic compatibility.
	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.
	Class III appliance.
	Warning
Made In China	This product is manufactured in China.
	Direct current.

	<p>WARNING: Read the user instructions before operating the product.</p>
	<p>WARNING: Danger of projections of objects against the body. Keep an adequate safe distance from the machine while it is running.</p>
	<p>WARNING: Do not put hands and feet near or under the opening of the cutting means. Remove the disabling device before operating on the machine or before lifting it.</p>
	<p>WARNING: Do not ride on the product. Never put your hands or feet close to or under the product.</p>
	<p>CAUTION: Heavy package over 60 lbs / 30 kg. Use proper lifting technique or equipment.</p>
	<p>Keep the package upright.</p>
	<p>Use the forklift properly.</p>
	<p>Prohibit flipping.</p>
	<p>This product must not be stepped on.</p>
	<p>Protect the package from rain and moisture.</p>
	<p>This product is fragile.</p>
	<p>Store the package away from direct sunlight and extreme conditions.</p>
	<p>The pack of this product should not be covered.</p>

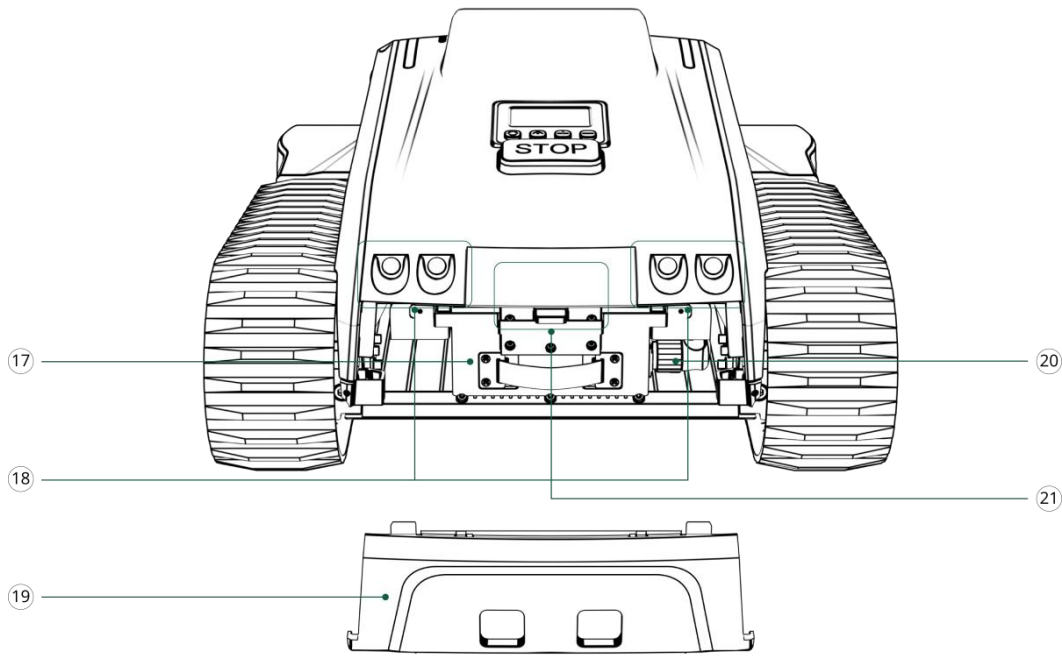
2.4 Product Overview

2.4.1 Lymow One



- 1 LCD Screen
- 2 Indicator
- 3 Rain Sensor
- 4 Ultrasonic Sensors
- 5 Deck Module
- 6 Bumper
- 7 Emergency Stop Button
- 8 Power Button

- 9 Home Button
- 10 Lift-up Button
- 11 Lift-down Button
- 12 Binocular AI Vision Camera
- 13 LED light
- 14 Handle Bar
- 15 Fender
- 16 Track Tread



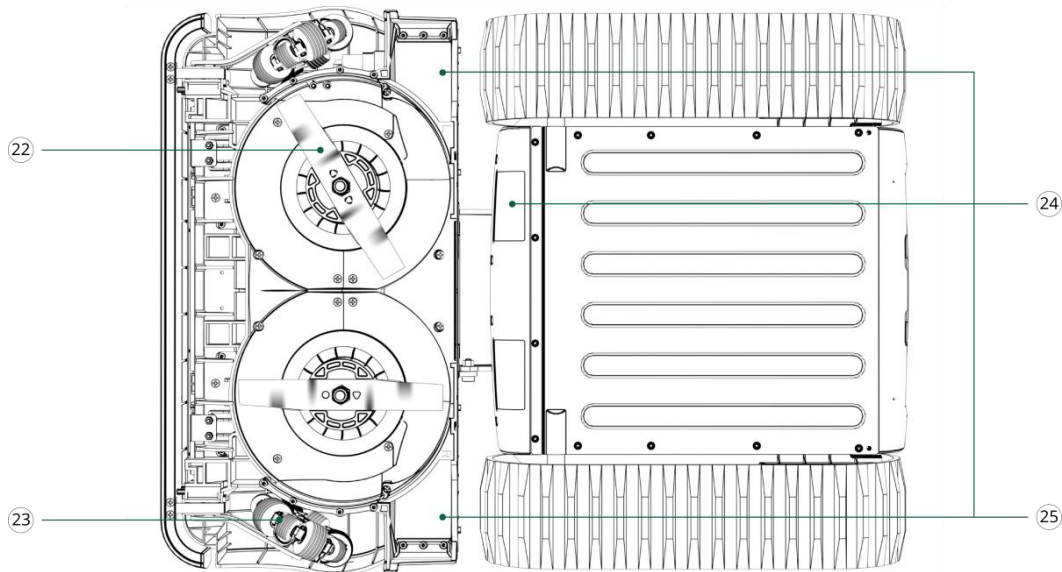
17 Battery

18 Ultrasonic Sensors

19 Back Cover

20 Power Port

21 SIM Card Tray
USB Port - For trouble shooting and debugging



22 Mulching Blade

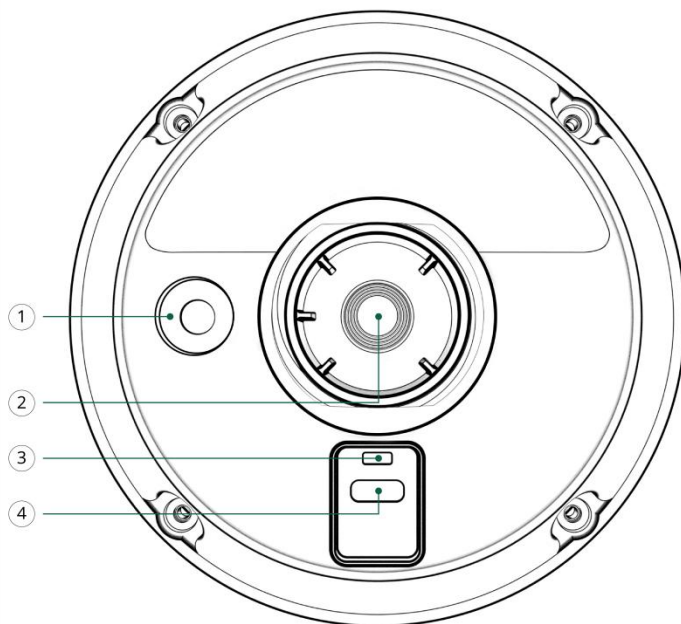
23 Omni Wheel

24 Charging Contacts

25 Side Discharge Module

2.4.2 RTK reference station

- 1 Antenna Port
- 2 Power Port
- 3 Power Indicator
- 4 USB Port - For trouble shooting and debugging



3 Installation

3.1 Installing the RTK Reference Station

3.1.1 Choosing a location for RTK reference station

NOTE

- During the initial setup in the app, you will be required to scan the QR code on the RTK reference station to complete the binding process.
- If the RTK reference station is installed in a hard-to-reach location (e.g. rooftop or wall), it is recommended to take a clear photo of the QR code beforehand for easier access during setup. For details, refer to Section 4.6.

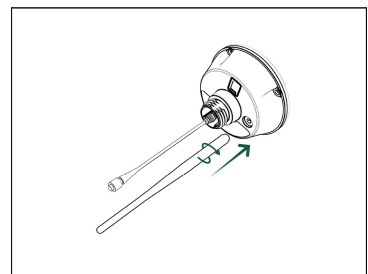
To ensure optimal positioning accuracy, the RTK reference station must be installed in a location with a clear sky view and minimal signal interference. You can install the RTK reference station on flat, open ground or on an unobstructed wall or roof.

Location Requirements:

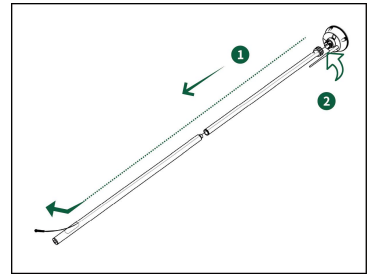
- The RTK reference station should be oriented vertically as shown.
- The RTK reference station should be stable and not prone to shaking or vibration.
- Place the RTK reference station on flat, open ground or on an unobstructed wall or roof. Make sure there are no eaves, trees, or nearby metal surfaces (e.g., iron roofs) that may interfere with satellite signals.
- Do not install the RTK reference station at the corner of an L-shaped building, on a narrow path between two structures, or under a tree.
- If the RTK station is installed near a building, keep it at least **2 m away** from walls or metal surfaces.

3.1.2 RTK reference station installed on the ground

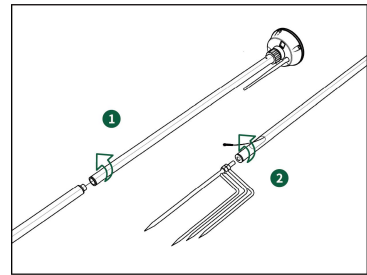
1. Fix the radio antenna to the RTK reference station.



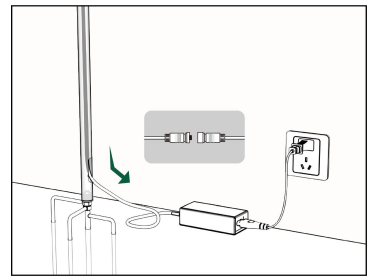
2. Connect the cable to the RTK reference station then thread it through the two mounting poles in sequence as shown.
3. Mount the RTK reference station on the top mounting pole.



4. Connect the top and lower mounting poles as shown.
5. Assemble the lower mounting pole and trident ground stake as shown.



6. Insert the trident ground stake into the ground at your preferred RTK installation location.
7. Connect the extension cable to the power adapter, then plug it into a power outlet to power the RTK reference station.



Notice:

This device must be professionally installed, this should be noted by the grantee.

To maintain compliance, only the antenna types that have been tested shall be used. Please refer to the following list of remote antenna part numbers:

Remote Antenna Part Numbers:

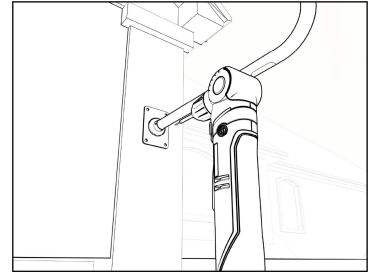
- Part Number: TX915-JKD-20
- Type: SMA-J
- Max. Gain: 4.36 dBi

This device requires a significant level of technical and engineering expertise. The tools and relevant technology are not readily accessible or understandable to the average consumer. Therefore, only individuals who have received professional training in this technology are qualified to operate it.

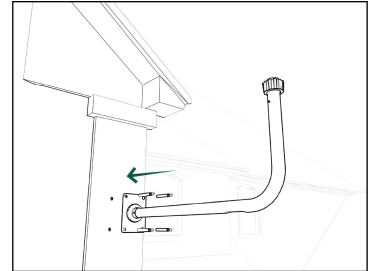
This device is not directly marketed or sold to the general public.

3.1.3 RTK reference station installed on a wall/roof

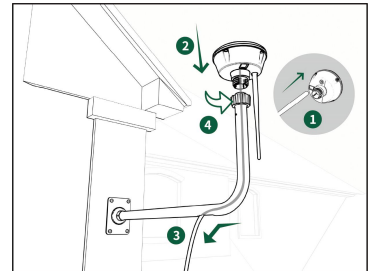
1. Choose a suitable location in your house for installation, ensuring a nearby power outlet is available.
2. Hold the wall mount bracket against the wall and mark the positions for drilling, then drill four holes at the marked points.



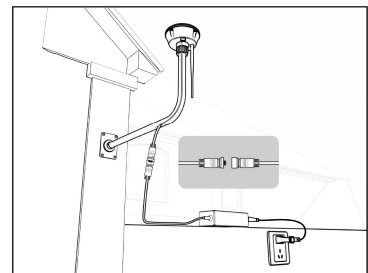
3. Attach the RTK Wall mount on the wall using the four screws and secure the screws firmly.
4. Mount the RTK reference station on the upturned mounting pole.



5. Fix the radio antenna to the RTK reference station.
6. Route the RTK reference station cable into the wall mount as shown.
7. Attach the RTK reference station to the wall mount.



8. Connect two 5M extension cables to the power adapter and plug it in to power the RTK reference station.



3.2 Setting Up the Charging Station

3.2.1 Choosing a location for charging station

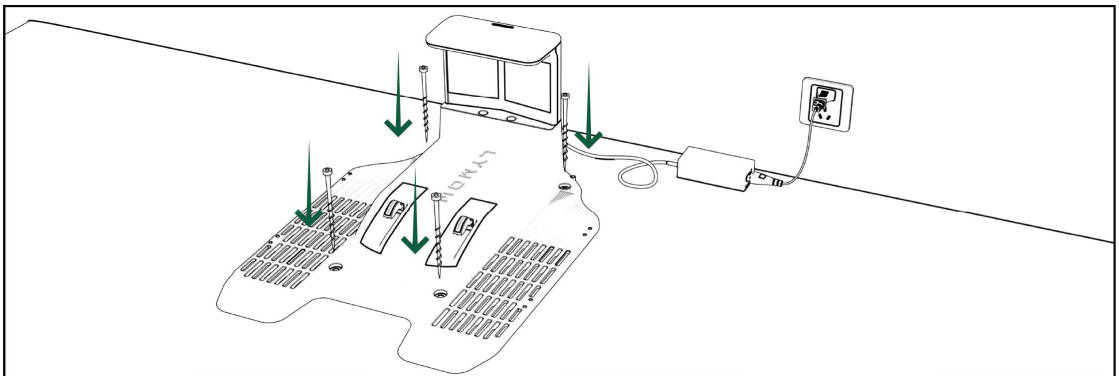
- Place the charging station on a flat ground.
- DO NOT install the charging station at the corner of an L-shaped building or on a narrow path between two structures.
- The charging area (1x1.5 m/3x5 ft. in front of the charging station) should be free of obstacles or other items.
- The base plate of the charging station must not be bent or tilted.
- Avoid installing the charging station in areas where water may accumulate. A waterproof sensor located at the base detects immersion risk, stops charging, and flashes an indicator (rear light switch must be ON). Damp grass may cause false triggers—install in a dry area or add protective covering to the sensor after assessment.

3.2.2 Setting up the charging station

NOTE

The charging station's power adapter includes two output cables — the larger plug powers the station, and the smaller plug supplies power to the RTK station. If the RTK power cable is not in use, it is recommended to secure its end with tape to prevent water ingress.

1. Choose a flat area for placing the charging station.
2. Use the four (4) ground stakes in the positions shown to secure the charging station in the chosen location.
3. Connect the 10M extension cable to the power adapter located on the rear of the charging station, then plug it into a power outlet to complete the setup.

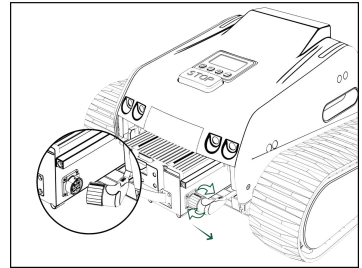


3.3 Setting Up the Lymow One

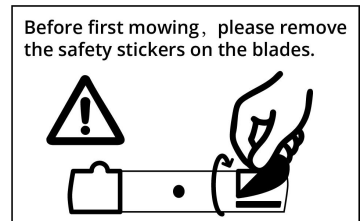
NOTE

It is recommended to fully charge the mower before first use to ensure optimal performance.

1. The battery is pre-installed. **Connect the power cable** and activate the mower.



2. Before first use, **remove the protective stickers from each blade.**








3. Power up the mower, and enter the default PIN code 0000 to unlock. See **Section 4.10.3** for details.

4 Operation











4.1 Button & Indicator & LCD Display Icon

NOTE

- Button functions are available only after the PIN code has been unlocked. See Section 4.10.3 for details. Once unlocked, the mower will remain accessible without re-entering it.
- The charging station has a switch on the backside that controls the indicator light, enabling users to turn it on or off as needed.

Icon	Button	Function
	Power	Long press (3s) to power the mower on/off.
	Stop	Press down to immediately halt the mower. Triggers emergency mode. Unlock the PIN code to release the emergency stop state.
	Home	Single press: Start/Pause mowing. Double press: Return to charging dock.
	“+” Button	Short press: Raise cutting deck by 10mm. Long press (3s): Full lift-up.
	“-” Button	Short press: Lower deck by 10mm. Long press (3s): Full downward tilt.

Indicators	Status	Description
Mower Indicator	Breathing green	Normal operating state
	Constant red	Emergency stop Unknown error
	Constant blue	Systematic error
Charging Station Indicator	Step light effect	Charging in progress
	Flowing light effect	Not properly docked
	Center light on, sides off	Standby mode
	Center light flashing, sides off	Charging error

LCD Display Icon	Description
	Lock PIN Code
	Unlock PIN Code
	Good Communication
	Lose SoC Communication
	Lose Deck Communication
	Lose Hub Communication
	Normal State
	Emergency State
	Raise deck up state
	Battery

4.2 Download the Lymow App

NOTE

- The app interface shown in this manual is for reference only, and actual screens may vary with app updates, please refer to the latest version of the app.
- All images are based on the English version. Additional language options will be introduced progressively through OTA updates.

To get started with your Lymow One, please download the Lymow App first. You can scan the QR code below or search for “Lymow” in the Apple App Store or Google Play Store to download and install the app.



iOS



Android

4.3 Set Up your Lymow Account

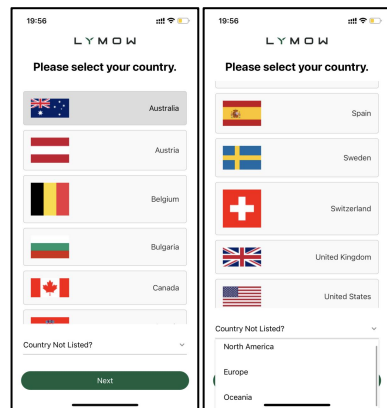
4.3.1 Choose your country

NOTE

Make sure you select the region that matches your actual location and product version. A mismatched selection may affect device pairing and future use.

After installing the Lymow App, the first step is to select your **country or region** based on your actual location.

1. Scroll through the list and select your country.
2. If your country is not listed, scroll to the bottom and select your **continent** (e.g., Europe, North America, Oceania).

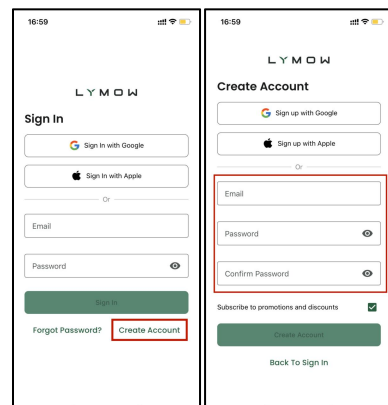


4.3.2 Create an account

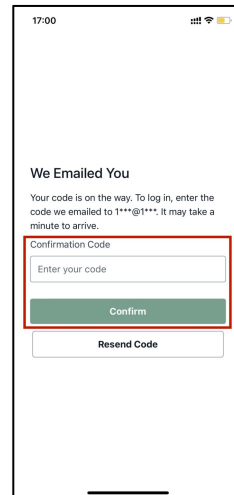
NOTE

Logging in with a Google or Apple account is separate from registering with a Gmail or Apple email address. These are treated as different accounts.

1. Tap **Create Account** on the login screen.
2. Enter your **email address**, then set a **password** and **confirm** it by entering it again.
3. Tap **Create Account** to proceed.
4. You can also choose **Sign in with Google** or **Sign in with Apple** for quick access.

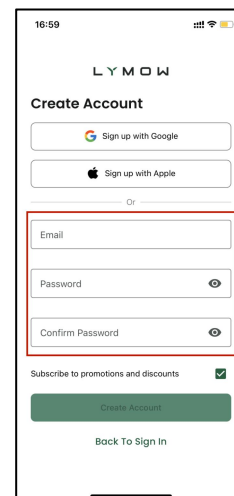


5. Enter the **verification code** sent to your email to complete registration.
6. Tap **Confirm** to complete registration.



4.3.3 Log in to the Lymow App

1. Enter your **email address** and **password** on the login screen.
2. Tap **Sign In** to access your account.
3. You can also tap **Sign in with Google** or **Sign in with Apple** if you registered using one of these services.



4.4 Add the Device

NOTE

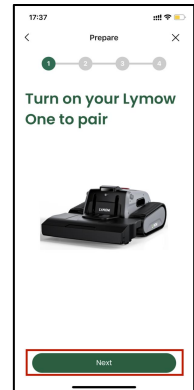
The device will appear with a default name in the format “Lymow_#####”, where the numbers reflect the last 6 digits of its serial number.

To begin setup, add your Lymow One to the app via Bluetooth.

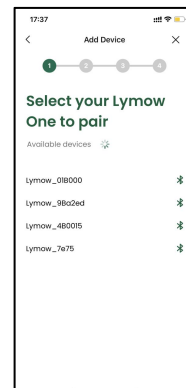
1. **Long press the Power button** on your Lymow One for 3 seconds to turn it on.
2. Tap **Add Device** on the home screen.



3. **Follow the on-screen instructions** to begin pairing.



4. Tap to **select your Lymow One** from the list to pair.



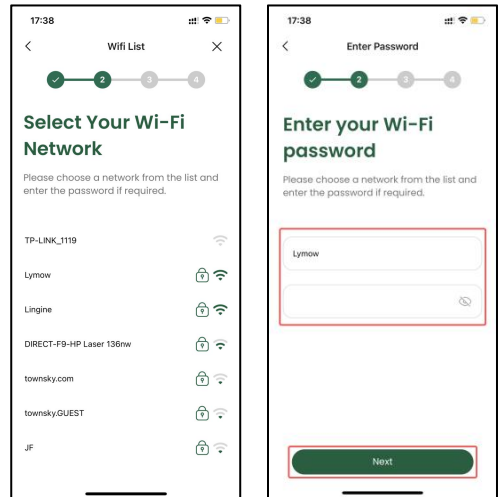
4.5 Wi-Fi Connection

NOTE

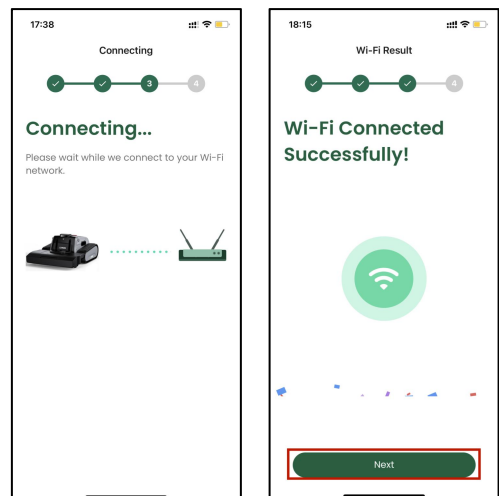
Lymow One only supports 2.4 GHz Wi-Fi networks.

After the robot is paired via Bluetooth, the app will guide you to set up a Wi-Fi connection.

1. **Select a Wi-Fi network** from the list shown on screen.
2. **Enter the Wi-Fi password**, then tap **Next**.



3. Once the Wi-Fi connection is successful, tap **Next** to proceed.



4.6 Bind the RTK Reference Station

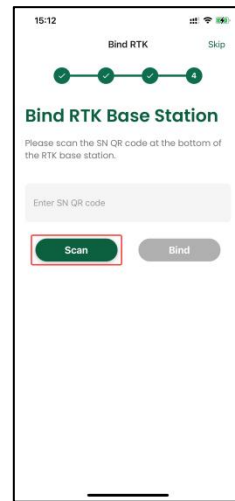
NOTE

- The RTK binding can be skipped during setup, but it can be completed later in the settings. Binding RTK ensures accurate navigation and positioning for optimal mowing performance.
- Due to differences in factory-released versions, error messages may appear. These messages can be disregarded, and RTK binding can be completed after the OTA upgrade.

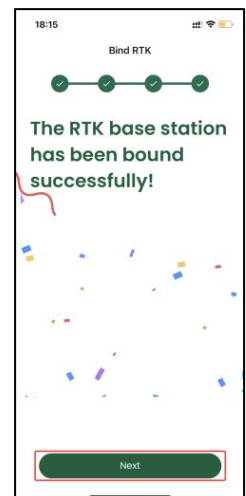
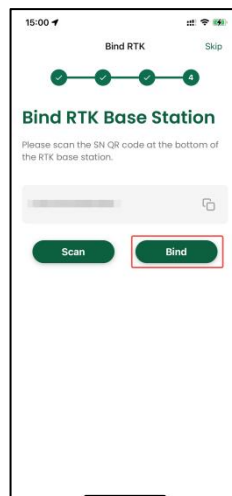
Once Wi-Fi is connected, the app will guide you to bind the RTK base station, which is essential for precise mapping and mowing.

1. **Scan the SKU QR code** on the RTK reference station.

If your RTK is wall-mounted and you previously took a picture of the code, scan the picture instead to bind.



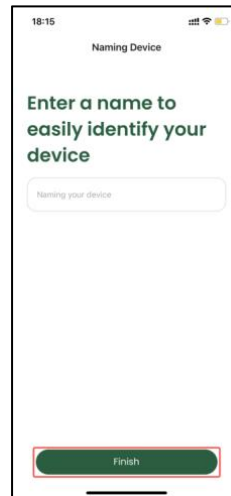
2. Tap **Bind** to proceed.



4.7 Name the Device

After binding the RTK reference station, you will be prompted to name your Lymow One.

1. Enter a name for easy identification.
2. Tap **Finish** to confirm.



4.8 Create a Map

Before start mapping, ensure RTK accuracy is within **0.05 cm** and Wi-Fi/Bluetooth connections are normal by checking the status bar. If the joystick appears yellow, the remote control mode is not ready yet—please check all connections before proceeding. Also, make sure the following conditions are met:

- The robot is powered on, in **“Waiting”** status, and **RTK binding** is complete.
- The area is clear of **obstacles**, such as wires, toys, or loose debris.
- There are **no people or pets** within the planned working area.
- The weather is suitable and **satellite signals** are stable.
- It is recommended to maintain a distance of at least 10 cm from fences, walls, or ditches during mapping

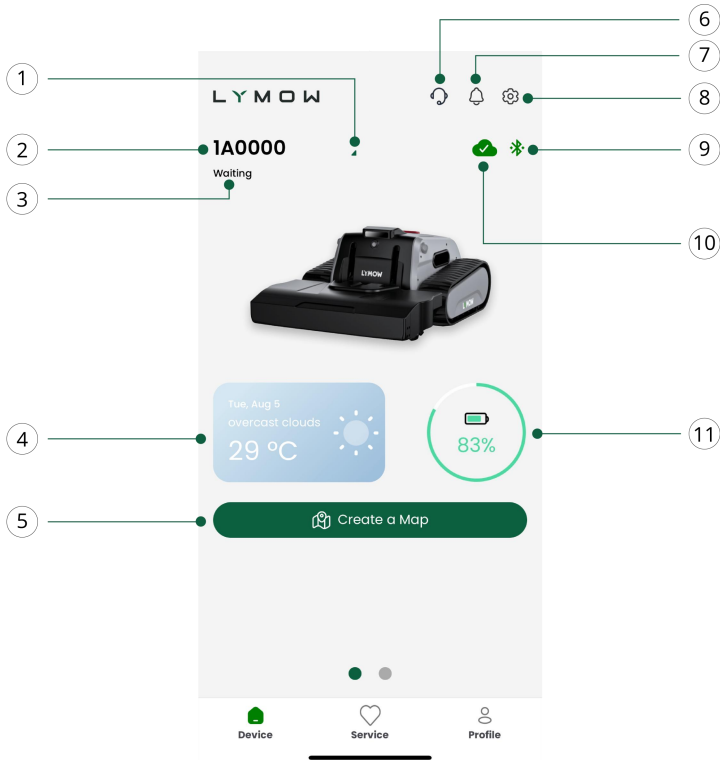
Confirm the RTK accuracy with the following steps before start mapping:

1. Ensure the RTK is powered on and the signal accuracy is below **0.05 cm** (ideally between **0.01–0.05 cm**) before starting mapping.
2. When entering remote control mode for the first time, drive the mower forward and backward to initialize, until the mower icon appears in the app.
3. Continue using the joystick to confirm that the mower icon follows the commands in real time.



4.8.1 Map page overview

Homepage



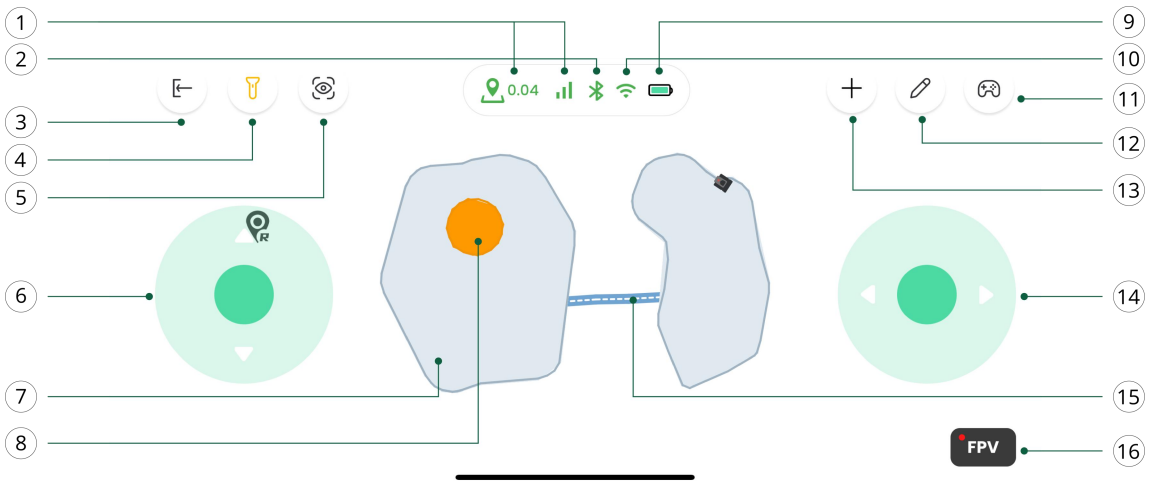
- | | |
|---|------------------------------|
| 1 Manage Device ¹ | 6 Customer Service |
| 2 Device Name | 7 Notification Center |
| 3 Device Status: waiting, docking, pause, charging .etc | 8 Setting |
| 4 Weather Widget | 9 Bluetooth |
| 5 Map Button
A. Create a Map ²
B. View Map ³ | 10 IoT Status |
| | 11 Battery Percentage |

NOTE

1. To add, rename, delete device.
2. Create a Map - No map yet, start creating one.
3. View Map - Map exists, you can modify, edit, or start mowing within the mapped area.

For bluetooth and IoT status, icons appear green when active, and grey when inactive. The Map Button appears green when the device is ready, grey when it is not.

Remote Control Mode



- | | | | |
|----------|--|-----------|---|
| 1 | RTK Accuracy | 9 | Battery |
| 2 | Bluetooth | 10 | Wi-Fi |
| 3 | Return Button | 11 | Manual Mowing Preset ² |
| 4 | Fill Light | 12 | Edit a Map ³ |
| 5 | Locate Device ¹ | 13 | Create a Map ⁴ |
| 6 | Left Control: Move forward / backward ⁵ | 14 | Right Control: Turn left / right ⁵ |
| 7 | Mowing Zone | 15 | Channel |
| 8 | No-Go Zone | 16 | FPV Function |

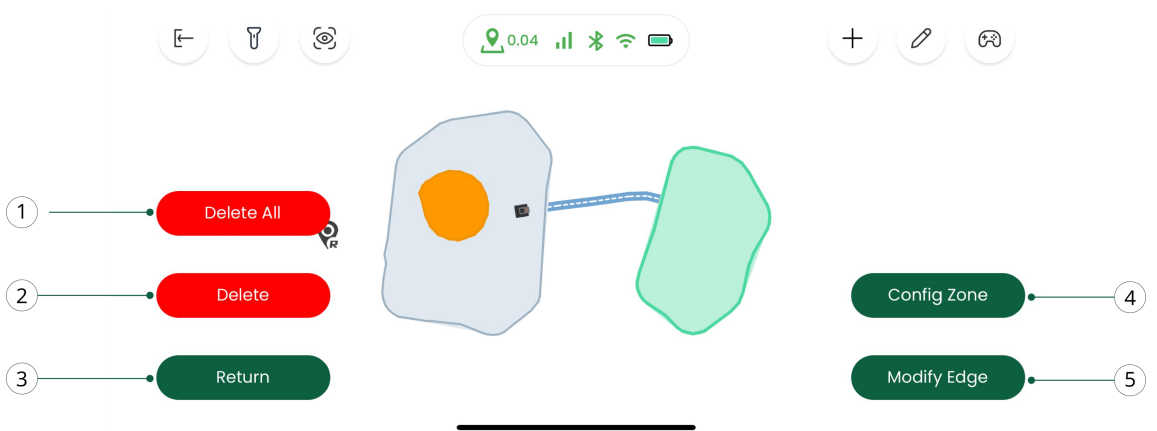
NOTE

1. Tap to center the map on the mower's current location.
2. Tap to set manual mowing parameters in advance.
3. Enter map editing mode to adjust mowing zones or boundaries.
4. Create a new mowing map with zones, no-go zones, and channels.
5. Joystick color indicates remote control status: yellow means remote control mode is unavailable—please check all connections in status bar; green means it is ready for use.

Status bar includes RTK accuracy, Bluetooth, Wi-Fi, and Battery.

Status bar icon colors (green / yellow / red / gray) indicate signal strength, with gray meaning the connection is not established—please check your connection.

Map Edit Mode



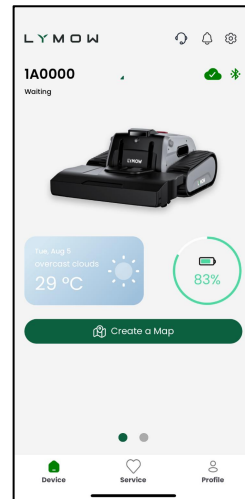
- 1** Delete All - Delete all zones and mapping elements from the current map.
- 2** Delete - Delete the currently selected zone or map element.
- 3** Return - Exit Map Edit Mode
- 4** Config Zone - Configure mowing settings for the selected zone.
- 5** Modify Edge - Adjust the boundaries of the selected zone.

4.8.2 Set a mowing zone

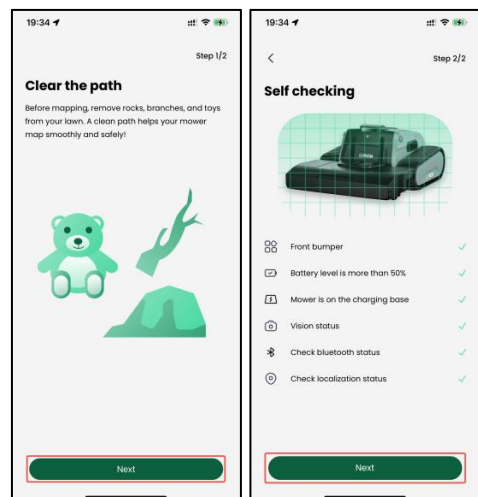
NOTE

- When entering remote control mode for the first time, manually drive the mower forward and backward to initialize. Ensure the mower icon moves normally in the app and that the RTK status is between 0.01-0.05 cm before starting mapping.
- To ensure stable Bluetooth connectivity during mapping and remote control, keep your phone 6-8 m / 20-26 ft away from the mower. The remote control distance should not exceed 20 m / 66 ft.

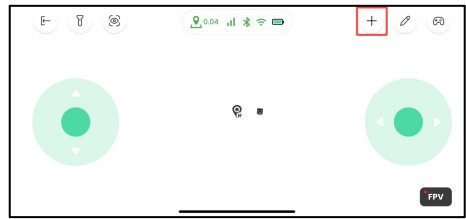
1. Tap **Create a Map** to start.



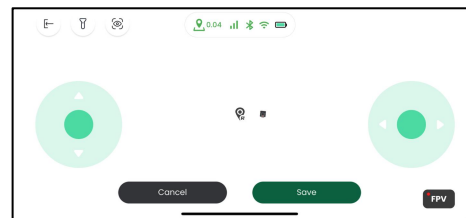
2. Follow the on-screen reminder to clear obstacles from the lawn, then tap **Next** to start self-check.
3. Once self-check completed, tap **Next** to enter remote control mode.



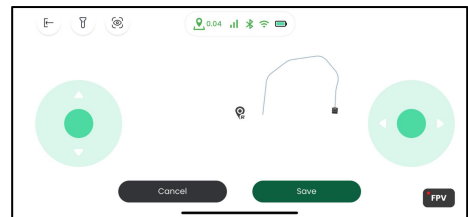
4. Tap the “+” icon and select “Zone” to begin mapping a mowing area.



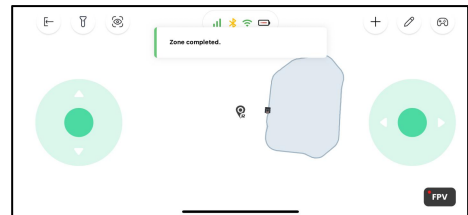
5. Use the joystick to manually drive your Lymow One and draw the edge of the mowing zone.
 - ◆ Left control: Move forward / backward
 - ◆ Right control: Turn left / right



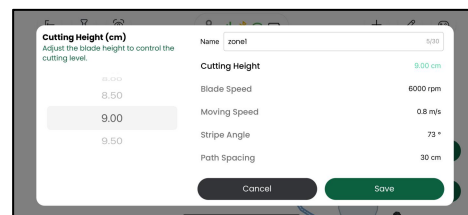
6. Drive your Lymow One return to the starting point to close the loop.
 - ◆ The grey line represents the perimeter you have set.



7. Tap Save to complete the mowing zone creation.



8. A popup will appear for configuring zone mowing settings. See Section 4.8.5 for details.



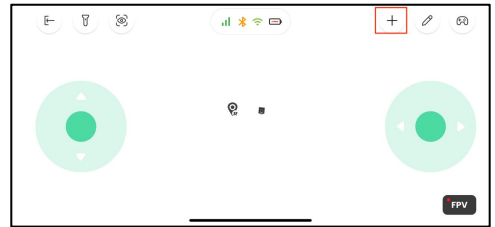
4.8.3 Set a No-Go zone

No-Go zones are used to block off areas the mower should avoid, such as flowerbeds, trees, or fragile installations.

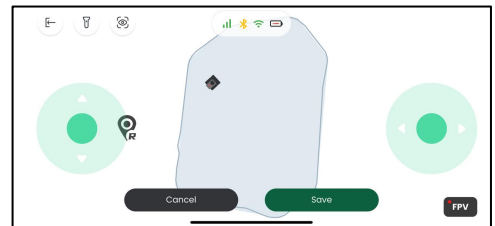
NOTE

The mower must be inside a mapped mowing zone before you can begin creating a no-go zone.

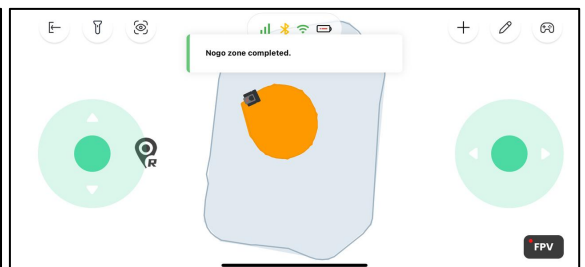
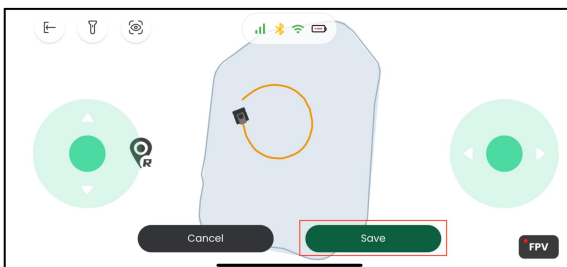
1. Tap the “+” icon and select “No-Go Zone”.



2. Manually drive your Lymow One to the **target mowing zone** where you want to add the no-go area.



3. Use the joystick to manually drive your Lymow One around the object or area you want to block off.
4. Drive your Lymow One return to the starting point to close the loop.
5. Tap **Save** to complete the no-go zone setup.



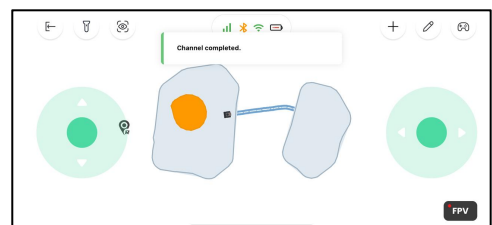
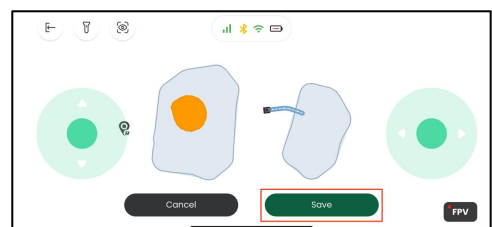
4.8.4 Add a channel

A channel is a virtual path that connects two mowing zones or links a mowing zone to the charging station. Channels allow the mower to travel safely between areas without remapping the lawn.

NOTE

- Channels can only be created **after at least two mowing zones have been set**. For instructions on creating additional zones, refer to Section 4.7.2.
- A **channel to the charging station** is only needed if the station is located outside the mowing zone.

1. Manually drive your Lymow One into the starting mowing zone.
2. Tap the **“+” icon**, then select **“Channel”**.
3. **Drive the mower along the desired path toward the target mowing zone or the charging station.**
4. **Tap Save to complete the channel setup.**

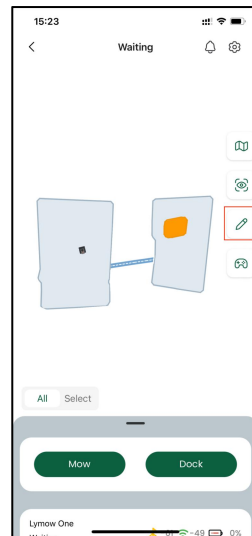


4.8.5 Map management

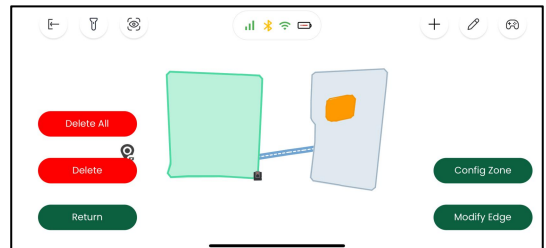
The map edit page allows you to manage the existing maps, including modifying zone edges and deleting maps when necessary.

Edit Mowing Zone Boundary

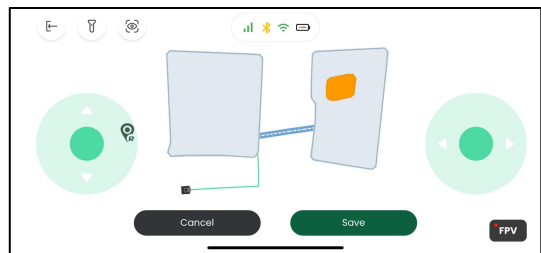
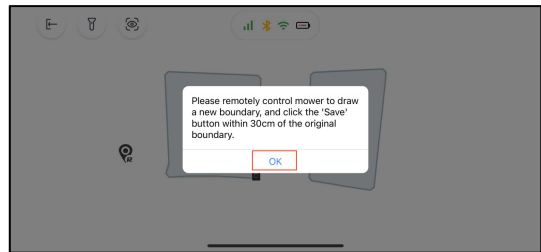
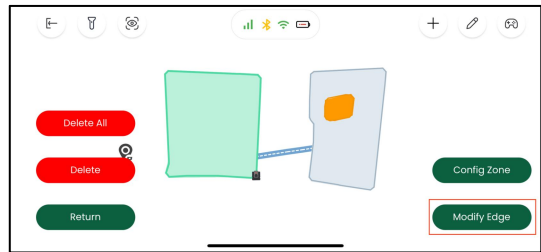
1. Tap the **Pencil** icon to enter map edit mode.



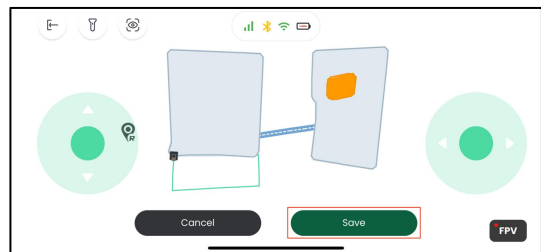
2. Tap to select the mowing zone you want to edit.
- ◆ Edit edge is currently not supported for no-go zones



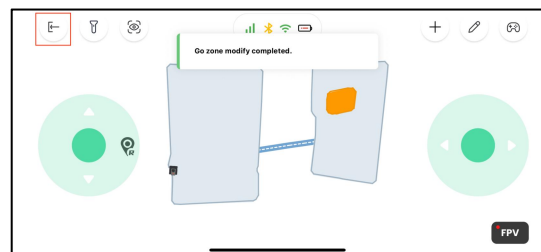
3. Tap **Modify Edge** to redraw the zone boundary by manually driving your Lymow One using the joystick.



4. Tap **Save** button to save the updated boundary.

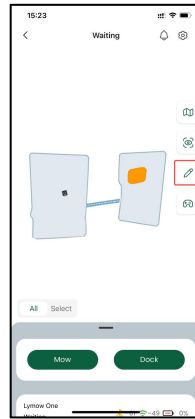


5. Tap **Return** icon to exit map edit mode.

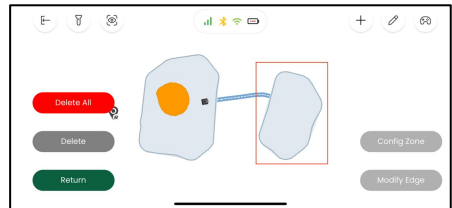


Delete a Zone or Channel

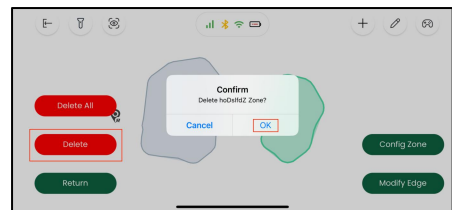
1. Tap the **Pencil** icon to enter map edit mode.



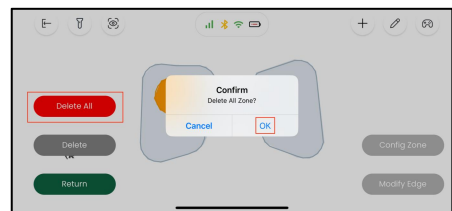
2. Select the zone/ no-go zone/ channel you want to delete.



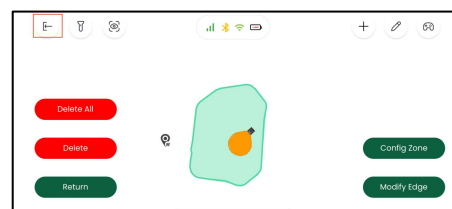
3. Tap the **Delete** button to remove the selected item.



4. Tap **Delete All** to remove all mapped zones and channels.

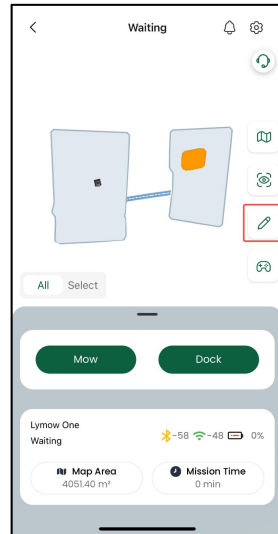


5. Tap **Return** icon to exit map edit mode.



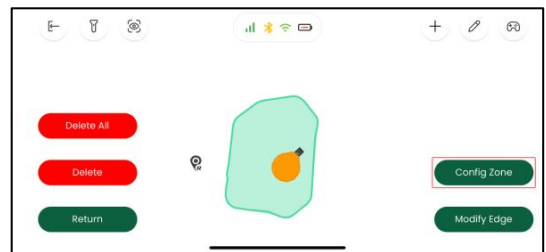
Configure a Mowing Zone

1. Tap the **Pencil** icon to enter map edit mode.

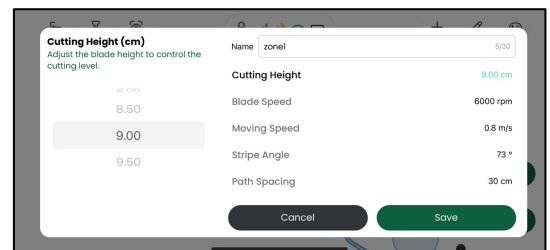


2. Select the **mowing zone** you want to configure.

3. Tap the **Config Zone** button.



4. Follow the on-screen instructions to complete the zone settings.



Mowing Setting	Description	Options
Cutting Height	Adjust the blade height to control the cutting level.	3.0 cm - 10.0 cm 1.2 in - 4.0 in
Blade Speed	Control the blade rotation speed, impacting the cutting sharpness. Higher speed results in a cleaner cut.	3,000 - 6,000 rpm
Moving Speed	Control the mowing speed. Higher speed reduces mowing time but may affect precision.	0.3 m/s - 1 m/s 1.0 ft/s - 3.3 ft/s
Stripe Angle	Set a direction for mowing paths.	0° - 180°
Path Spacing	Set the distance between each mowing paths. Smaller spacing ensure complete coverage but increases mowing time.	25cm/ 30cm/ 35 cm 9.8 in/ 11.8 in/ 13.8 in
Mowing Order	Select the mowing path order.	Perimeter first Main Area First
Turn Off Outer Mowing Motor	Turn off outer mowing motor when mower at boundary for side discharge. Purpose is to prevent clippings sprayed to outside of the lawn.	Yes No
Mowing Pattern	Select the mowing pattern. Options include zigzag, chessboard, and perimeter laps only.	Zigzag Chessboard Perimeter laps only
Relative Chessboard	Chessboard relative angle. The current area will execute zigzag twice but each in different angle, the two trajectories will be presented at the set relative angle.	0° - 180°
Obstacle Detection Mode	Select the obstacle avoidance strategy, such as smart detection or fixed avoidance.	None Touch-Only Smart
No Go Zone Mowing Laps	Number of additional laps around no-go zones to enhance boundary precision.	0 - 3 laps
Perimeter Mowing Laps	Number of perimeter laps that mower would follow which intent to cut grass around perimeter more clear.	0 - 3 laps
Safe-margin Mode	Enable safe-margin mode to prevent the robot from mowing too close to obstacles.	Precise Edge Offset Edge

4.9 Mowing

Lymow One offers flexible mowing options to suit different usage needs, including manual, auto, and scheduled modes.

NOTE

- If the grass height exceeds 60 mm/2 in, it is advisable to raise the cutting height to at least 40 mm/1.6 in. When mowing, it is important to only trim a third of the grass height each time. For example, if the initial grass height is 60 mm/2 in, the cutting height of Lymow One should be set to 40 or 45 mm/1.6 or 1.8 in. Similarly, if the grass is between 90 - 100 mm/3.5 - 4 in, the cutting height of Lymow One should be set to 60 mm/2 in.
- The specific mowing height is adjusted according to the actual needs of users.

Before mowing

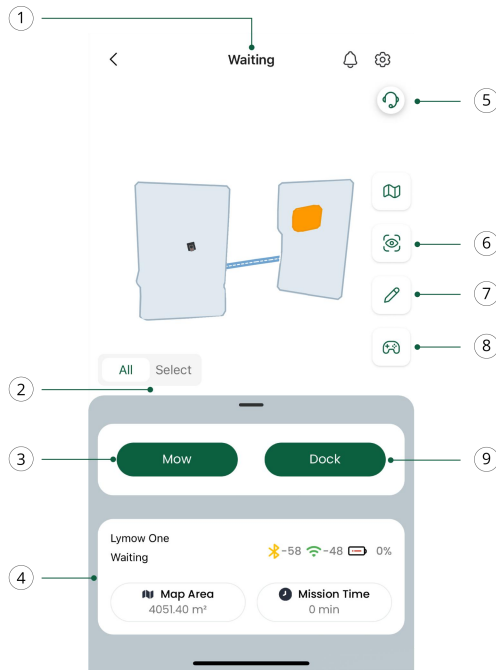
- ◆ Ensure the mower is within a mapped mowing zone.
- ◆ Check that the lawn is clear of obstacles to ensure safe and efficient mowing.
- ◆ As part of our commitment to animal welfare, we kindly remind users to visually check the lawn for small animals (e.g., hedgehogs, rabbits) before mowing.

Lymow One is equipped with intelligent obstacle detection and avoidance, but your extra attention helps reinforce our shared care for nature.

- ◆ Avoid mowing the same area more than once per day to promote healthy grass growth.
- ◆ If any unexpected situation occurs, press the STOP button immediately. This command overrides all others and halts the mower.
- ◆ Make sure the camera lens and LED light lens are clean and unobstructed before mowing, as dirt or moisture may affect the mower's vision and navigation performance.

4.9.1 Mowing page overview

Mowing Task Status Page



- | | |
|---|-------------------------------------|
| 1 Device Status | 5 Customer Service |
| 2 Zone Selection ¹ | 6 Locate Device ⁷ |
| 3 Mower Control Button
A. Mow ²
B. Pause ³
C. Resume ⁴ | 7 Map Edit Mode |
| 4 Mowing Dashboard
A. Status, Bluetooth, Wi-Fi, Battery
B. Map Area ⁵
C. Mission Time ⁶ | 8 Remote Control Mode |
| | 9 Dock Button |

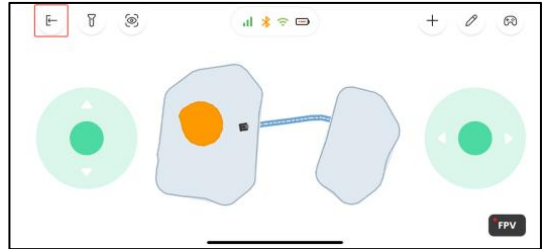
NOTE

1. Choose the target mowing area.
All: Mow all zones.
Select: Choose one or more specific zones to mow.
2. Mow - Start mowing.
3. Pause - Temporarily stop mowing.
4. Resume - Continue mowing from where it left off.
5. Map Area - Total mowed area so far.
6. Mission Time - Total duration of mowing.
7. Tap to center the map on the mower's current location.

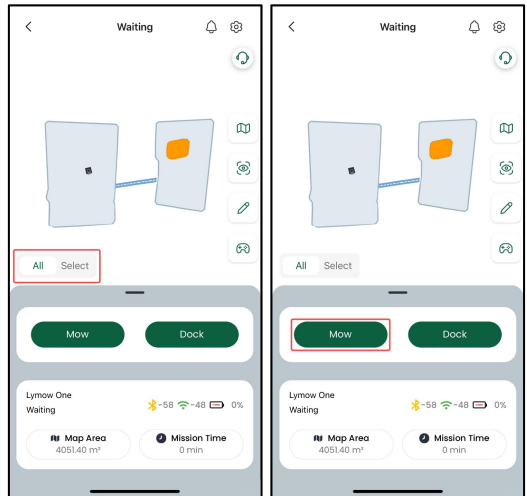
4.9.2 Auto mowing mode

After completing map creation, a setup popup will appear prompting you to configure mowing settings for the newly created zone. Follow the on-screen instructions to complete the configuration. See Section 4.8.5 for details.

1. Tap **Exit** button to enter Mowing Task Status Page.



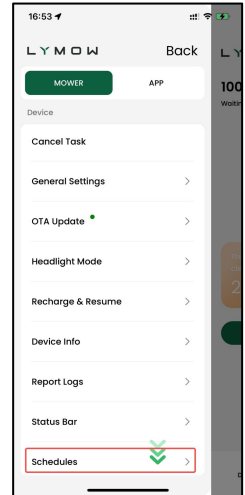
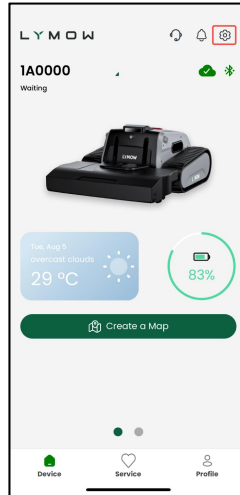
2. Select the target mowing zone (**All / Selected**).
3. Tap the **Mow** button to start mowing.



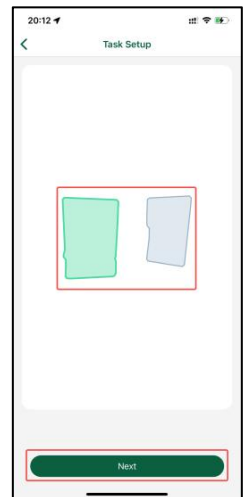
4.9.3 Scheduled mowing mode

Lymow APP supports set automatic mowing schedule based on time, frequency, and zones. Once a schedule is configured, your Lymow One will automatically do its work accordingly.

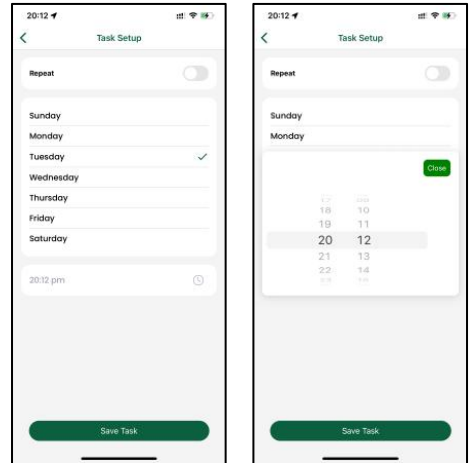
1. Tap the **Settings > Schedules** to enter the schedule page.



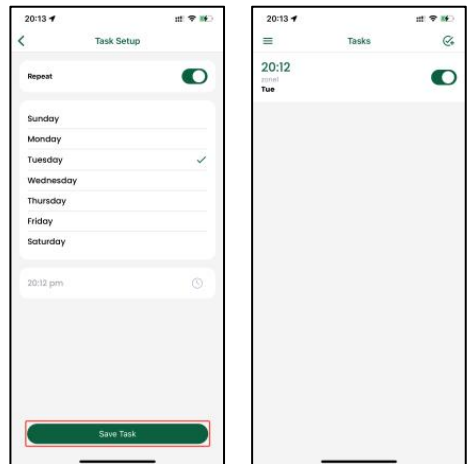
2. Tap the **Add** icon, select the mowing zone from the map view, then tap **Next**.



3. Follow the onscreen information to set the start time and choose the repeat pattern.



4. Tap **Save Task** to confirm.



The created task will appear in the schedule list. You can:

- ◆ Tap the toggle switch to enable/ disable the task.
- ◆ Swipe left to edit or delete the task.

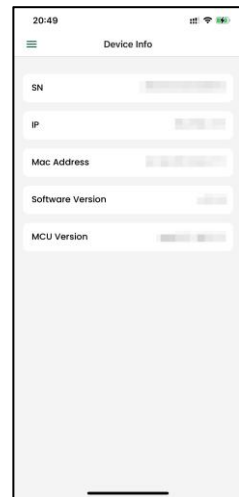
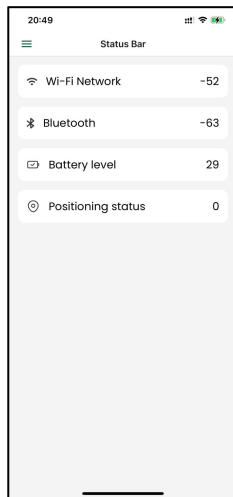
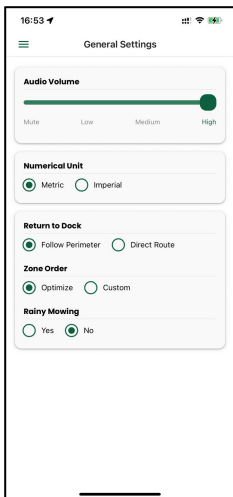
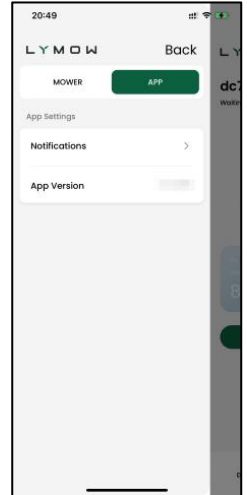
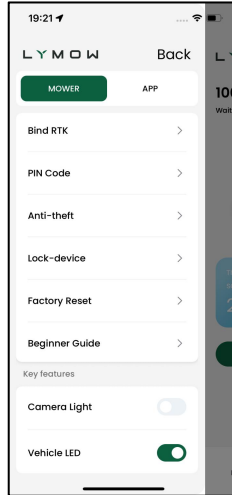
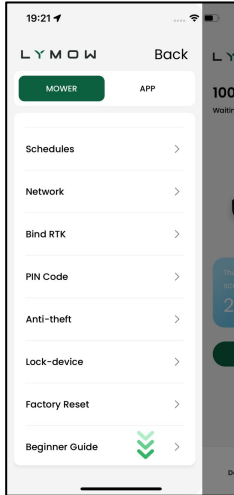
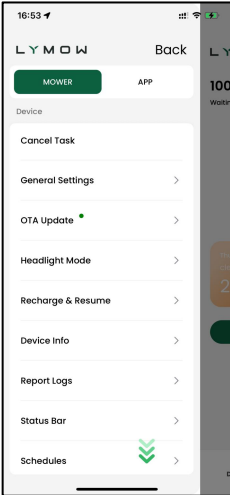


4.10 Explore More on Lymow App

4.10.1 System settings

You can access and configure various system-level functions of your Lymow One through the System Settings menu.

- On the homepage, tap the **Settings** icon to open the side menu.
- Select **General Settings** or other available options based on the function you want to manage.



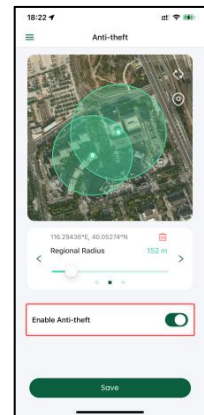
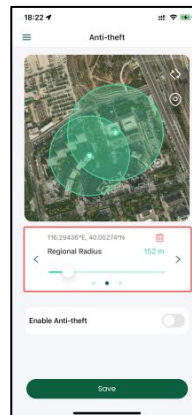
4.10.2 Anti-theft mode

NOTE

To use Anti-theft Mode, ensure the mower is connected to the internet and has a valid positioning signal.

The Anti-theft Mode is designed to help prevent unauthorized use or movement of your Lymow One.

- When enabled, the system creates a **virtual fence** based on your selected location. If the mower moves outside the fence, it will automatically enter a **locked state**.
- You can enable or disable Anti-theft Mode and adjust the fence radius in the app.
- When locked, the mower will stop operating and trigger warning alerts through voice signals.
- You can track the mower's location in real time through the app. Up to 10 virtual fences can be configured for flexible protection.
- The mower can be manually locked / unlocked through the app at any time.

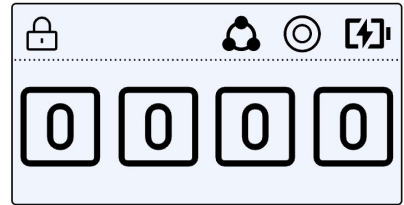


4.10.3 PIN Code

To ensure security, a 4-digit PIN code is required to unlock the mower. The default PIN code is set to '0000', and it can be customized through the app.

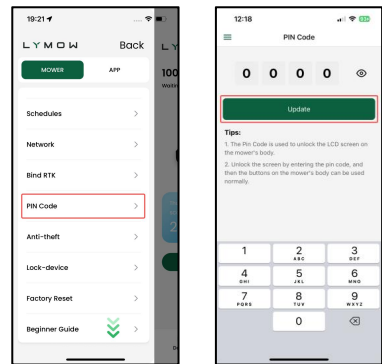
Unlocking the Mower Using the Buttons

1. Press the “+” button to increase the number. For example, the number starts at 0, pressing + once will change it to 1, pressing + twice will change it to 2, and so on.
2. Press the “-” button to decrease the number.
3. Once the first digit is entered, press the “Home” button to move to the next digit.
4. Repeat this process until all four digits are entered.
5. After entering all four digits, press Home again to confirm and unlock the mower.



Change Your PIN Code in the App

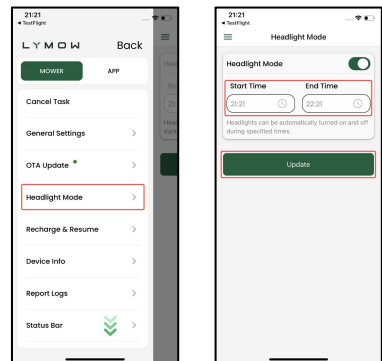
1. On the Lymow App homepage, tap the **Settings** icon to open the side menu.
2. Select **PIN Code**.
3. Enter your desired new PIN code (4 digits).
4. Tap the **Update** button to confirm the change.
5. The new PIN code will take effect immediately for unlocking the mower.



4.10.4 Headlight mode

The Headlight Mode allows you to automatically turn the mower's headlights on and off during specified times, improving visibility in low-light conditions.

1. Toggle the **Headlight Mode** switch to turn it on or off.
2. Set the **Start Time** and **End Time** for the headlights to operate automatically.
3. Tap the **Update** button to save the settings.



4.11 Troubleshooting

The app notification displays common error messages along with corresponding suggestions to help identify and resolve issues. The general recovery steps are tapping Clear Error, then Resume. Alternatively, the LCD screen can be unlocked using a PIN code—pressing the Home button will clear the fault, and pressing it again will allow the mower to continue operating. These steps do not apply to tilt or lift-related errors.

Error messages	Suggested Resolutions
Wheel Motor Error	<ol style="list-style-type: none"> 1. Clear the error and retry several times. 2. Restart the mower if the issue persists.
Battery Temperature	<ol style="list-style-type: none"> 1. Stop the mower and allow the battery to cool down before proceeding. 2. Clear the error and retry several times. 3. Restart the mower if the issue persists.
Charging Error	<ol style="list-style-type: none"> 1. Check the charging station power and clean the contacts. 2. Restart the mower and the charging station if needed.
Low Battery	Charge the mower.
Battery Error	<ol style="list-style-type: none"> 1. Clear the error and retry several times. 2. Restart the mower if the issue persists.
Lifting Motor Jammed	<ol style="list-style-type: none"> 1. Remove debris around the motor and retry. 2. Press and hold the “-” button to reset if needed. 3. Restart the mower if the issue persists.
Steering Motor Jammed	<ol style="list-style-type: none"> 1. Remove debris around the motor and retry. 2. Press and hold the “-” button to reset if needed. 3. Restart the mower if the issue persists.
Blade Motor Error	<ol style="list-style-type: none"> 1. Clear the error and retry several times. 2. Restart the mower if the issue persists.
Blade Motor Jammed	<ol style="list-style-type: none"> 1. Power off the mower and remove debris from the blade. 2. Clear the error and retry several times. 3. Restart the mower if the issue persists.
Bumper Jammed	<ol style="list-style-type: none"> 1. Remove debris around the bumper. 2. Clear the error and retry.
Camera Error	<ol style="list-style-type: none"> 1. Clear the error and retry. 2. Restart the mower if the issue persists.
Sensor Error	<ol style="list-style-type: none"> 1. Clear the error and retry. 2. Restart the mower if the issue persists.
Positioning Module Initial Failed	<ol style="list-style-type: none"> 1. Clear the error and retry. 2. If it persists, reset the task.

Lift Detected	<ol style="list-style-type: none"> 1. Move the mower to flat ground. 2. Press the STOP button. 3. Press the Home button or tap Resume in the app.
Excessive Tilt Detected	<ol style="list-style-type: none"> 1. Move the mower to flat ground. 2. Press the STOP button. 3. Press the Home button or tap Resume in the app.
Slippage Detected	<ol style="list-style-type: none"> 1. Move the mower to a different location. 2. Clear the error and retry. 3. Consider setting a no-go zone or fixing the terrain.
Blocked by Obstacles	<ol style="list-style-type: none"> 1. Move the mower to an open area. 2. Clear the error and retry. 3. Consider setting a no-go zone or clearing obstacles.
Dirty Camera Lens	<ol style="list-style-type: none"> 1. Clean the camera lens. 2. Clear the error and retry.
Out of Map Area	<ol style="list-style-type: none"> 1. Remote control the mower back into the go zone. 2. Clear the error and retry.
No Available Mowing Zone	Create a mowing zone.
No Zones Created	Create a map.
Zone Unreachable	Create a channel between the zone and the target zone.
No Channel to Charging Station	Create a channel between the zone and the charging station.
Charging Station Not Mapped	Move the mower in front of the charging station and keep the head aligned for 5–10 seconds.
No Charging Signal	<ol style="list-style-type: none"> 1. Check power supply and clean charging contacts. 2. Manually assist the mower to dock.
Cannot Reach Charging Station	<ol style="list-style-type: none"> 1. Make sure a channel connects to the charging station. 2. Drive the mower and retry docking. 3. Assist the mower if needed.
Charging Station Placement Issue	Relocate the charging station as advised.
Docking Failed	<ol style="list-style-type: none"> 1. Move the mower to a new location and retry docking. 2. Assist the mower to dock if it fails again.
Map Error	Recreate a map.
Path Planning Error	<ol style="list-style-type: none"> 1. Move the mower to a new position and retry. 2. If the error persists, reset the task.
Mower is Outside Operation Area	Move the mower to a new position and retry.
Internal Error	Restart the mower.

5 Maintenance

5.1 Cleaning your Lymow One

WARNING

- Never submerge Lymow One in water.
- Avoid using alcohol, gasoline, acetone, or other corrosive or volatile solvents, as they may damage the mower's appearance and internal components.
- Do not use sharp objects such as metal tools or scrapers to clean the underside of the mower.
- Check for blade wear or damage during cleaning, and ensure that the blades rotate freely without obstruction.
- Ensure the mower is powered off, disconnect the battery pack and unplug its power cable, before performing any cleaning or maintenance.

To keep your Lymow One in optimal condition, we recommend cleaning it at least once a week. After use in wet conditions (rainy weather, wet grass), a full-body cleaning is required.

For deck module, Use a soft brush to remove grass buildup and debris from the bottom of the deck.

For the Mower, Wipe down with a damp cloth to maintain clean.

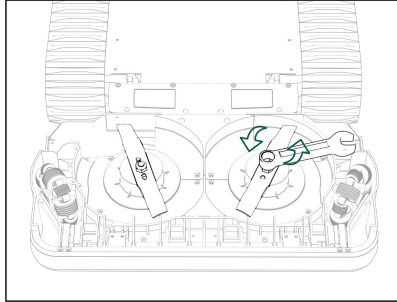
5.2 Replacing the Blades

NOTE

- The installation method is the same for all blades.
- Always wear protective gloves during blade replacement.

Lymow One comes pre-installed with mulching blades. To replace them with new blades, please follow the steps below:

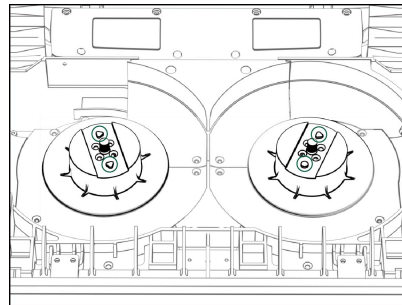
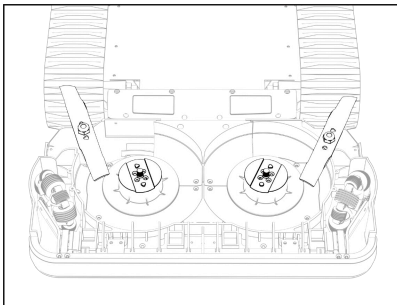
1. Use a wrench to loosen the nut and remove the original blade.



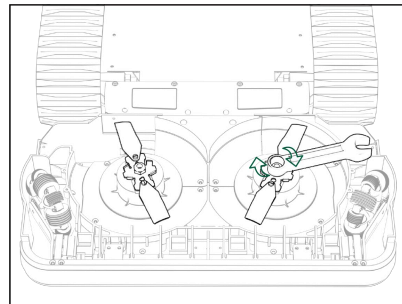
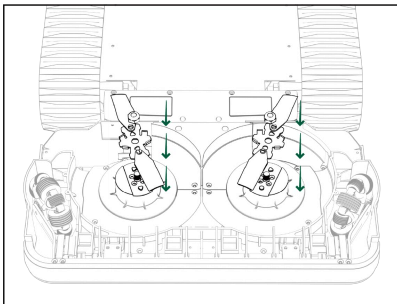
2. Match and install the the replacement blade on each side.

Left blade: Align with 2 triangle holes

Right blade: Align with 1 triangle and 1 round hole

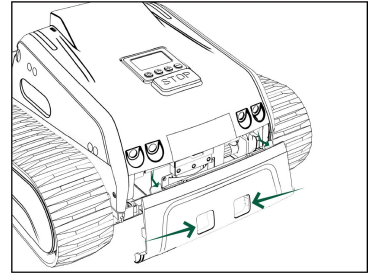


3. Once the blade is properly aligned and seated, tighten the nut securely with a wrench.

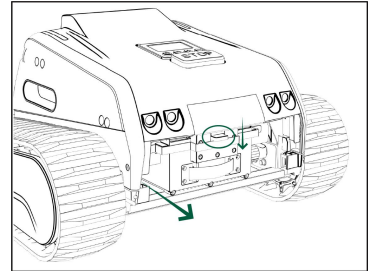


5.3 Replacing the Battery

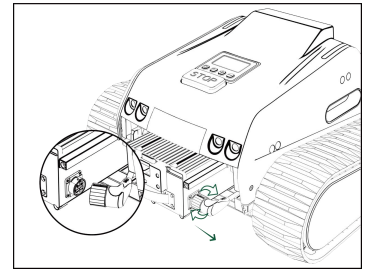
1. Press both tabs inward to release and remove the back cover.



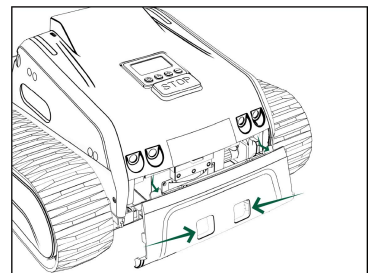
2. Press down the release latch to remove the battery.



3. Rotate the green locking ring to unlock the connector, then pull it out.
4. Insert the new battery into the compartment.
5. Rotate the green locking ring to and plug in the power connector.



6. Press both tabs inward again to reattach and secure the back cover.



5.4 Replacing the 4G SIM Card

1. Press both tabs inward to release and remove the back cover.
2. Use the SIM-eject tool to eject the SIM card tray.
3. Place the SIM card into the tray, then push the tray back into the slot.
4. Press both tabs inward again to reattach and secure the back cover.

5.5 Battery Care

To ensure optimal performance and extend battery lifespan, follow these battery care guidelines:

- Charge regularly using the official Lymow charging station.
- Avoid full discharge—recharge when battery level drops below 10%.
- Avoid operation below -10°C (14°F) or above 45°C (113°F)
- Clean the charging contacts on both the mower and the station regularly to maintain proper connectivity.

5.6 Storage

If Lymow One will not be used for an extended period, follow these steps to store it properly:

- Charge the battery to 60–70% before storage.
- Power off the mower completely.
- Store the unit in a cool, dry, and well-ventilated area, away from direct sunlight or freezing temperatures.
- Do not leave the mower or battery exposed to moisture or high humidity.
- If stored for longer than 3 months, check the battery every 2 months and recharge it if the battery remains less than 60%.

Winter Storage

When outdoor temperatures drop below -15°C (5°F), it is recommended to store all components indoors. Follow these steps to ensure proper winter storage:

- Bring the mower, charging station indoors.
- For the RTK station, remove the RTK reference station and store it indoors to prevent weather damage. The mounting pole can remain outdoors.
- If you choose to store all the RTK station components indoors, ensure they are reinstalled in exactly the same position in spring. Location change may cause mapping offset, requiring the area to be re-mapped.
- Thoroughly clean the mower and ensure all surfaces are completely dry before storage.
- Disconnect the battery cable.
- Remove the battery if possible, for safer long-term storage.

6 Product Specification

Cutting System	
Blade Type	Rotary Mulching Blades / Super Swing Blades
Mowing Speeds	0.3 - 1.0 m/s 1.0 - 3.3 ft/s
Cutting Height	30 - 100 mm / 1.2 - 4.0 in
Cutting Width	400 mm / 16 in
Blade Speed	6,000 RPM
Rated Power Output	300 W
Peak Power Output	1,200 W
Maximum Coverage per Day	7,000 m ² / 1.73 acres
Mow Up to	48,562 m ² / 12 acres
Maximum Coverage per Charge	2,300 m ² / 0.57 acres

Smart Features	
Navigation	RTK + VSLAM
RTK Coverage Radius	Up to 1 km / 3,200 ft
Mowing Area Without RTK	100 m ² - 150 m ² 0.025 - 0.037 acres
Mowing Time Without RTK	Up to 10 minutes
Multi-Zone Management	Up to 80 zones
Connectivity	Bluetooth, Wi-Fi, and 4G
Obstacle Avoidance	AI vision + 5 ultrasonic sensors

Tracked Treads	
Slope Handling	Up to 45° (100% incline)
Obstacle Climbing Height	50 mm / 2 in

Battery	
Type	LiFePO ₄
Capacity	15,000 mAh (15 Ah)
Model	LM-3615
Charging Temperature Range	Refer to IEC 62133-2 report -10°C - 45°C
Charging Temperature Range (Environment)	0°C - 45°C
Rated Voltage	35.2 V
Charging Voltage	40.5 V (10A charger) 39 V (2.5A charger)
Charging Time	90 minutes 10% to 90% (10A charger) 360 minutes (2.5A charger)
Maximum Runtime	3 hours
Lifespan	2,000 charge cycles*

**Values marked with asterisk are based on laboratory measurements; actual performance may vary depending on usage and environment.*

General Info	
Water Resistance	IPX6
Operating Temperature	-10°C to 45°C 14°F to 113°F
Storage Temperature	-20°C to 55°C -4°F to 131°F
Product Weight	35.2 kg / 77.6 lbs
Product Dimensions (L × W × H)	747 × 558 × 320 mm 29.4 × 22.0 × 12.6 in
Package Weight	47 kg / 103.6 lbs
Package Dimensions (L × W × H)	915 × 690 × 430 mm 36.0 × 27.2 × 16.9 in

**Values marked with asterisk are based on laboratory measurements; actual performance may vary depending on usage and environment.*

7 Warranty & Support

7.1 Warranty

Lymow provides a 2-year free warranty for all manufacturing or shipping-related issues. However, consumable parts (for specific consumable parts, please refer to the tablet below) as well as the Lymow One unit that fails due to user error, disassembly, and improper maintenance are not covered under our warranty. We stand behind our products and services with confidence and we are happy to provide ongoing technical guidance. After-sales service includes, but is not limited to, professional mail-in exchanges, technical guidance, and any other available solutions that can help you.

All customers who pledge on Kickstarter or purchase the Lymow One during the pre-order period will be entitled to an additional one-year extended warranty, bringing the total warranty coverage for your Lymow One to three years.

Components	Warranty Period
Lymow One (Excluding tracks and blades)	2 years
Tracks and blades	No warranty

Warranty Limitations

Lymow's sole responsibility during this warranty period is to choose to repair or replace the product. Any implied warranties or conditions (including merchantability, fitness for a particular purpose, or other aspects) are limited in duration to the duration of the express warranty stated above. In no event shall Lymow be liable for any loss, inconvenience, or damage, whether direct, incidental, consequential, or otherwise, arising out of the breach of any express or implied warranty or condition (including merchantability, fitness for a particular purpose, or other aspects), unless otherwise required by law. Certain jurisdictions may not allow the limitation of the duration of implied warranties, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights that vary from region to region.

It is the responsibility of the consumer to regularly inspect the product to determine if normal maintenance or replacement is required.

The following conditions are not included

- ✗ Lymow products that have been modified, neglected, improperly maintained, used for commercial purposes, misused, or abused, or involved in accidents.
- ✗ Product damage caused by incorrect assembly or repairs.
- ✗ Damage caused by factors unrelated to material and workmanship, including but not limited to the user's lack of technical skills, abilities, or experience.

- × Damage to the product's surface coating, aesthetics, or appearance.
- × Labor costs incurred for disassembly, reinstall, and adjustment of the product within unauthorized assembly.
- × Normal wear and tear of the product.

The warranty applies to the following products within the specified period

If your Lymow products are purchased on the Lymow official website.

For **in-stock** products, the warranty period starts on the day after the package is delivered or the day of device activated.

For **pre-order** products, the warranty period starts on the day after the package is delivered or the day of device activated.

If the device has not been activated 30 days after the package is delivered, the warranty period starts on the day after the package is delivered.

7.2 Support

If you need help, please Visit: <https://www.lymow.com/pages/help-center>.

For assistance in claiming the warranty, please contact the Lymow customer service team (support@lymow.com).

To contact the customer service team, please have a valid proof of purchase (sales receipt or invoice) with the date of purchase and the serial number of the product. If you have purchased the product from an official Lymow store (<https://lymow.com/>), the order number is sufficient as proof of purchase.

The customer service team will carry out an initial fault diagnosis and provide you with solutions. For this purpose, the customer service team may ask you to download or install certain software updates. Please follow any instructions given by the customer service team. If the fault cannot be rectified, please send the product to the service station specified by the customer service team.

Use the original carton and the original packaging material of the product for shipping or provide equivalent packaging and equivalent packaging material. Pack the product in such a way that any damage caused by improper packaging during transportation is avoided (e.g. by providing sufficient padding). Lymow is not liable for damage caused by improper packaging during transportation.

Lymow will bear the shipping costs, unless Lymow determines that the product is not under warranty after checking the product. Lymow will then provide you with a free shipping label that you can use for shipping.

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.
- (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.

CE Compliance Statements

Frequency Band(s) in Which the Radio Equipment Operates / Maximum RF Output Power.

Wi-Fi (2.4 GHz): 20 dBm

Bluetooth: 10 dBm

LoRa (863–870 MHz): 25 mW

LTE (B1/B3/B5/B7/B8/B20/B28/B38/B40/B41): 25 dBm

GNSS: BDS, GPS, GLONASS, Galileo, QZSS

RF Exposure Compliance

This equipment complies with FCC/CE 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.

EC/EU DECLARATION OF CONFIRMITY

Manufacturer: Lymow Technology Co., Ltd

Address: Huakong Mansion, Building 3, No. 1 Shangdi East Road, Haidian District, Beijing

Authorized Representative:

Address:

The name and address of person authorized to compile the technical file:

Herewith declares that the Machinery:

Generic Designation: Robotic Lawn Mower

Product Name: Lymow One

Type / Model: Lymow One

Described As: Robotic Lawnmower for Grass Cutting

Cutting Width: 400mm Power: 498.2Wh / 900Wh

Complies with the following Directives,

2006/42/EC

2014/53/EU

ROHS 2.0

Standards conform to,

EN 60335-1:2012+A11+A13+A1+A14+A2+A15

EN 50636-2-107: 2015+A1+A2+A3

EN ISO 12100: 2010

EN 62233:2008,

EN 301 489-1 V2.2.3,

EN 301 489-19 V2.2.1,

EN IEC 55014-2:2021,

EN 301 908-1 V15.2.1,

EN 300 328 V2.2.2,

EN IEC 62311:2020

EN 301 489-3 V2.3.2,

EN 301 489-52 V1.3.1,

EN IEC 61000-3-2:2019+A1+A2,

EN 301 908-13 V13.3.1,

EN 300 220-2 V3.1.1

EN 62479:2010,

EN 301 489-17 V3.3.1,

EN IEC 55014-1:2021,

EN 61000-3-3:2013+A1+A2,

EN 303 413 V1.2.1,

Signed for and on behalf of: Lymow Technology Co., Ltd.

Place: Beijing, China

Date: 2025-07-08

Name: Wangshu Gao

Function: Chief Executive Officer

Signature: 

L Y M O W