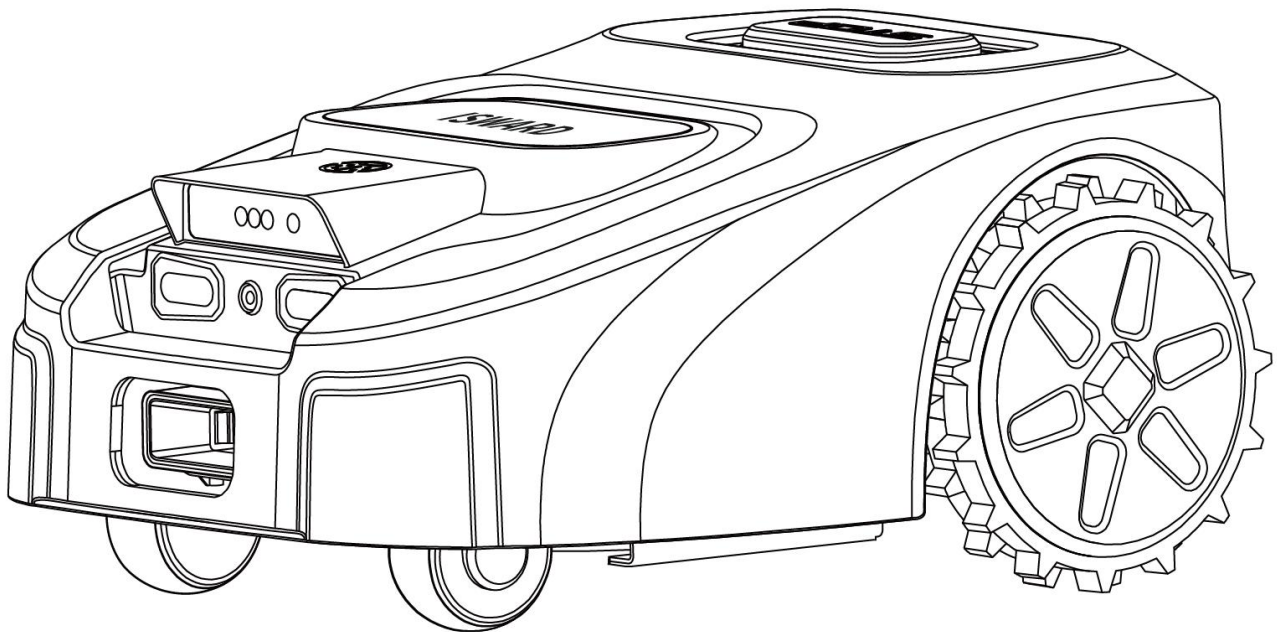


ISWARD®



ISWARD G Series User Manual



Version 1.0

Read the User Manual carefully before use. Make sure you understand all the instructions and safety warnings.

Welcome

Thank you for choosing iSward !

With Precise Integrated Navigation System (PINS) and superb traversing capabilities, iSward can handle lawns of all types. No perimeter wires needed and it's super easy to use, thanks to smart app connectivity and the intuitive control panel.

Collection of grass is not necessary because the fine grass clippings serve as a natural fertilizer. Enjoy the fun of carefree mowing and a perfectly maintained lawn.

Download iSward APP:

ISWARD is designed to work with the iSward app, please download the free iSward app first. You can scan the QR code below to get it from the Android or Apple app stores.

Get it on Google Play store



Get it on the Apple App Store



Record your Product's ID Number

【Label place】

NOTE:

This version of the manual is a draft page, and will continue to be modified and adjusted in the future, which says that the content iSward team has the final interpretation.

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1.Safety Instructions

1.1 GeneSafety Instructions for Installation

Read Carefully

Thoroughly read and understand all instructions before using the product

Follow Local Regulations

Comply with local laws and age restrictions for operating this product.

Use Approved Accessories Only

Use only ISWARD-approved equipment. Any other usage is improper and unsafe.

Restricted Use

Do not allow children, individuals with reduced physical, sensory, or mental capabilities, or those lacking experience to operate the machine.

Manual Operation Caution

When manually controlling the product via the ISWARD App, always walk carefully, watch your footing on slopes, and maintain balance.

Avoid Moving Parts

Do not touch moving parts, such as the blade disc, until they have completely stopped.

Public Area Warnings

In public areas, place clear warning signs around the work zone: *"Warning! Automatic Lawn Mower! Keep Away! Supervise Children!"*

Wear Protective Gear

Always wear sturdy footwear and long trousers when operating the product.

Safe Path Planning

Do not set work areas or travel paths across public pathways to prevent accidents.

In Case of Injury

Seek immediate medical attention in the event of injury or accidents.

Power Off Before Maintenance

Always switch the product OFF before clearing blockages, performing maintenance, or inspecting for damage. If abnormal vibrations occur, inspect and repair before use.

Electrical Safety

When connecting the main cable to the power source, use a residual-current device (RCD) with a maximum tripping current of 30 mA.

1.2 Installation Safety Instructions

Power Disconnection

Before installation, ensure the power supply is **disconnected** to prevent electric shock.

Stable Grounding

Install the charging station and RTK signal beacon on **flat, stable, and solid ground**. Avoid sloped, loose, or uneven surfaces.

Dry Environment

Do **not** install the charging station in areas prone to **standing water**, heavy rain, or flooding to prevent short circuits and equipment damage.

Clear Signal Path

Position the RTK signal beacon in an **open space** with at least **110° of unobstructed sky view**. Avoid placement under **trees**, near **walls**, or under **shelters** that may block satellite signals.

Safe Distance from Combustibles Maintain at least 30 cm (12 in) between the charging station (and accessories) and any flammable materials to prevent fire hazards due to overheating. Seek

Proper Cable Management

Secure all cables to prevent **tripping hazards** and **damage**. Use protective conduits for cables routed through high-traffic areas.

Avoid Obstructions

Ensure the charging station is placed in an area free from obstacles that could interfere with the mower's docking and charging.

Safe Power Supply (Outdoor Use)

For outdoor installations in the **USA/Canada**, only connect the power supply to a **Class A GFCI (RCD)** outlet with a **weatherproof enclosure** to prevent electric shocks.

Leave Clearance Space

Allow at least **1 meter (3 feet)** of clear space in front of the charging station and 10 cm behind it to ensure smooth docking.

Secure Anchoring

Properly anchor the charging station and RTK signal beacon using ground stakes or screws to prevent movement or tipping.

Check for Underground Utilities

Before inserting stakes or digging, verify that no **underground cables, pipes**, or utilities are present to avoid damage.

Avoid Direct Sunlight and Extreme Temperatures

Install the charging station in a **shaded area** to prevent overheating. Avoid installing it in locations exposed to extreme **heat** or **cold**.

Compliance with Local Regulations

Follow all **local electrical and construction codes** during installation to ensure safety and compliance.

1.3 Operational Safety Instructions

Keep Hands and Feet Clear

Always keep your **hands** and **feet** away from the rotating blades. Do **not** place any body parts near or underneath the product while it is turned **ON**.

Do Not Move While Powered On

Never **lift** or **move** the product when it is switched **ON** to avoid injury from moving parts.

Activate Park Mode When Needed

Use **Park Mode** or set the product to **OFF** when there are people, especially **children** or **pets**, in the work area.

Clear the Lawn of Debris

Ensure the lawn is free from objects like **stones, branches, tools**, and **toys**. Contact with such objects can **damage the blades** and pose a safety risk.

Avoid Placing Items on the Machine

Do not place any objects on the **lawnmower, charging station**, or **RTK reference station** to prevent malfunction or damage.

STOP Button Must Be Functional

Do not operate the product if the STOP button is defective. Always ensure the STOP function is working properly for emergency use.

Prevent Collisions

Avoid collisions with **people** or animals. If someone or something enters the mower's path, **immediately stop** the machine.

Turn OFF When Not in Use

Always switch the product to **OFF** when not in operation to prevent accidental activation.

Avoid Simultaneous Use with Sprinklers

Do **not** operate the lawnmower at the same time as **pop-up sprinklers**. Use the **Schedule** function to prevent overlapping operations.

Plan Safe Connection Channels

Avoid placing **connection channels** where **sprinklers** are installed to prevent interference with water systems.

Do Not Operate in Wet Conditions

Never use the product in areas with **standing water**, during **heavy rain**, or when the ground is **waterlogged** to avoid slippage or electrical hazards.

Monitor During Operation (Optional)

If operating in complex or public environments, monitor the product via the **ISWARD App** to ensure safe operation.

1.4 Maintenance Safety Instructions

1. You can use **a water hose** to clean the mower's underside, blade disc, and wheels to remove grass clippings and dirt. DO NOT use a high-pressure washer.
2. Avoid spraying directly on the battery compartment, charging ports, and electronic components to prevent water damage.
3. After cleaning, wipe dry the machine and ensure all components are completely dry before restarting.

Power Off Before Maintenance

Always **turn off** the mower and **disconnect** it from the charging station before performing any maintenance to prevent accidental startup or electric shock.

Wear Protective Gear

Wear **cut-resistant gloves** and **safety goggles** during maintenance to protect yourself from sharp parts and debris.

Integrated Blade and Blade Disc Replacement

1. The blade and blade disc are designed as an integrated unit. Do not attempt to remove the blade from the disc.
2. When replacement is needed, you must replace the entire blade disc assembly.
3. Only use manufacturer-approved original blade discs and follow the user manual for proper installation.

High-Pressure Washer Cleaning

1. You can use a high-pressure washer to clean the mower's underside, blade disc, and wheels to remove grass clippings and dirt.
2. Avoid spraying directly on the battery compartment, charging ports, and electronic components to prevent water damage.
3. After cleaning, wipe dry the machine and ensure all components are completely dry before restarting.

Battery Maintenance

1.Regularly inspect the battery for signs of leakage, swelling, or corrosion. Stop using the mower immediately if any abnormality is detected.

2.Use only the original charger for charging and avoid overcharging or deep discharging to prolong battery life.

Software Updates

Periodically check and update the firmware through the ISWARD App to ensure optimal performance and safety.

Proper Storage Conditions

1. When not in use for an extended period, store the mower in a dry, shaded place, away from direct sunlight and moisture.

2. Keep the battery charged to around 50% to avoid performance degradation due to prolonged discharge.

Professional Repairs Only

Do not disassemble the machine yourself. For complex repairs, contact an authorized service center or a professional technician.

Follow Manufacturer's Guidelines

Always follow the user manual and maintenance guidelines provided by the manufacturer to ensure safe and proper operation.

2.Product Inctrodation

2.1 Product Overview

2.1.1 ISWARD G Series

The ISWARD G Series (hereinafter referred to as ISWARD or the Robot) is an advanced robotic lawn mowing system designed to replace traditional complex boundary wire setups with virtual boundary technology. Equipped with dual-lens depth detection cameras, the robot effectively identifies both dynamic and static obstacles. With its simple operation, easy management, and high safety standards, ISWARD allows you to achieve a perfectly maintained lawn while enjoying more free time.

2.1.2 System Components

The ISWARD G Series robotic lawn mower system consists of three key components:

- ① Robotic Mower with Dual-Lens Camera,
- ② Powered by a lithium battery,
- ③ the mower autonomously trims the lawn within the designated work area.

Charging Station

The robot automatically returns to the charging station when the battery is low and resumes mowing from where it left off once fully charged. RTK (Real-Time Kinematic) Signal Base

Station

The mower synchronizes with the RTK base station to receive satellite positioning signals, ensuring precise location tracking and efficient navigation.

2.1.3 Key Technologies

DepthSentry Vision Technology

The dual-lens camera accurately detects lawn boundaries and obstacles, enhancing safety and positioning precision.

PINS (Precise Integrated Navigation System)

This system integrates data from all sensors, significantly improving positioning accuracy and fault tolerance.

Virtual Boundary Technology

Eliminates the need for physical boundary wires, offering a more flexible and user-friendly setup.

2.1.4 Smart Operation via the ISWARD App

Real-time Monitoring

Control and monitor the mower in real time through the **ISWARD App** using **4G** or **Wi-Fi** connections.

Customizable Settings

Easily set mowing schedules, adjust cutting heights, and define work zones

Anti-theft Protection

Receive instant alerts if the mower is moved unexpectedly or used without authorization, ensuring **device security**.

Smart Path Planning

The mowing path is automatically optimized based on the shape of the lawn, delivering maximum efficiency.

Auto Charging and Resumption:

If the mower cannot complete the mowing in one cycle, it will automatically return to the charging station and resume work from the **last stopped point after recharging**.

2.2 DepthSentry Vision technology

The ISWARD G Series is equipped with a dual-lens depth camera and integrated with cutting-edge DepthSentry Vision Technology.

Precise Positioning

Utilizing advanced visual positioning technology, ISWARD ensures accurate navigation even in areas with weak or obstructed satellite signals, significantly enhancing operational stability.

Obstacle Detection

The dual-lens camera enables real-time detection of both dynamic and static obstacles, effectively preventing collisions and improving both safety and operational efficiency.

2.3 How the PINS Works

The **PINS** (Precise Integrated Navigation System) is **ISWARD's** proprietary high-precision integrated navigation technology. By combining **satellite positioning** with advanced sensor fusion algorithms, PINS significantly enhances **positioning accuracy and fault tolerance**.

2.3.1 High-Precision Satellite Positioning

The robotic mower continuously receives satellite signals for self-positioning, while the RTK signal base station also receives these signals. By comparing the data from both the mower and the base station, PINS effectively reduces transmission errors (e.g., signal drift in the ionosphere), achieving centimeter-level accuracy.

2.3.2 Multi-Sensor Data Fusion

PINS integrates data from various sensors, including the gyroscope and accelerometer, using ISWARD's advanced data fusion algorithm. This integration improves the mower's adaptability to complex environments.

2.3.3 Boundary-Free Operation

Leveraging PINS technology, ISWARD can accurately map the working area in challenging outdoor environments without installing boundary wires. The system also optimizes the mowing path within the designated area for planned cutting patterns and maximum efficiency.

2.3.4 Handling Satellite Signal Issues

While PINS greatly improves performance in complex environments, severe satellite signal issues can still impact operation. Below are common signal issues and solutions:

1.Signal Obstruction

Issue: Obstacles around the signal base station or mower can weaken or completely block the satellite signal.

Solution: Do not install the charging station or RTK base station under rooftops, trees, or any area that might block signals.

2.Signal Interference (Multipath Effect)

Issue: Satellite signals reflected off walls, instead of coming directly from the sky, can cause positioning errors.

Recommendation: Avoid operating the mower near long, flat walls or walls made of glass or metal, as they can interfere with signals and cause the mower to collide with obstacles. Do not set up the work area between two high walls, which could block signals and prevent proper operation.

3.Signal Loss Recovery

1. When the satellite signal is lost, the mower will automatically attempt to reconnect.
2. If reconnection fails within a set time, the mower will activate DepthSentry Vision for assisted positioning.
3. If the signal cannot be restored, the mower will return to the charging station and wait until the signal is recovered before resuming work.

2.3.5 DepthSentry Vision Assistance

While ISWARD primarily relies on **RTK positioning** for self-navigation, in cases where **satellite signals** are blocked by structures like **eaves** or **trees**, the mower seamlessly switches to **DepthSentry Vision** and the **PINS system** for stable and efficient operation.

2.4 Obstacle Detection and Avoidance

The **ISWARD** robotic mower is equipped with a dual obstacle detection system, combining **DepthSentry Vision** and **Collision Feedback** to ensure safe and efficient operation.

DepthSentry Vision System

This advanced depth vision technology allows the mower to **accurately detect** and **respond** to obstacles in real time.

Collision Feedback System

When the visual system is limited (e.g., in low visibility conditions), the **collision feedback system** provides reliable physical obstacle detection, ensuring continuous safety and performance.

2.5 Connectivity Options

ISWARD supports three types of connectivity for seamless control and monitoring:

Bluetooth

Used for **pairing** ISWARD with a smartphone, enabling close-range control and setup.

Wi-Fi

Connects the mower to the internet for real-time data transmission and remote control.

4G Cellular Data

Provides **remote access**, allowing users to control and monitor the mower from anywhere with **real-time updates**.

2.6 Anti-Theft System

ISWARD is equipped with a comprehensive anti-theft system to prevent unauthorized movement or removal.

Alarm Trigger

If the mower is **lifted**, an automatic **alarm** will sound.

GPS & 4G Tracking

Users can track the mower's location in real-time through the **ISWARD App** using **GPS** and **4G** positioning.

Remote Lock

Users can remotely **freeze** the mower via their account, rendering it **inoperable** until unlocked.

2.7 Auto-Return to Charging Station

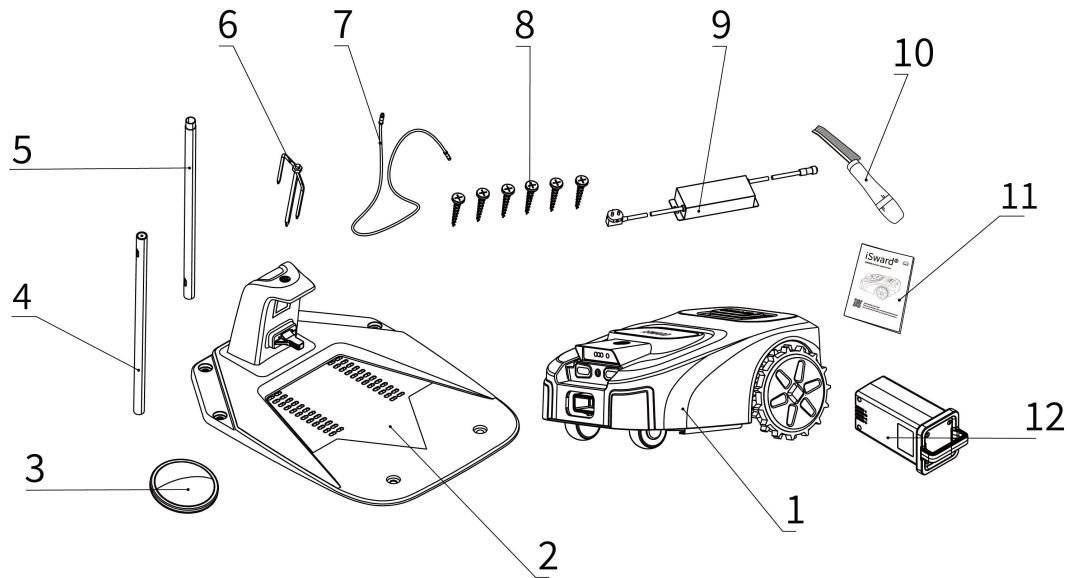
*ISWARD features an **automatic charging** function for uninterrupted operation.*

1. When the battery level drops below 15%, the mower will automatically return to the charging station for recharging.
2. In case of rain, snow, or other harsh weather conditions, ISWARD will also autonomously return to the charging station to prevent damage and ensure longevity

2.8 Package Contents

Your **ISWARD G Series** robotic lawn mower package includes the following items:

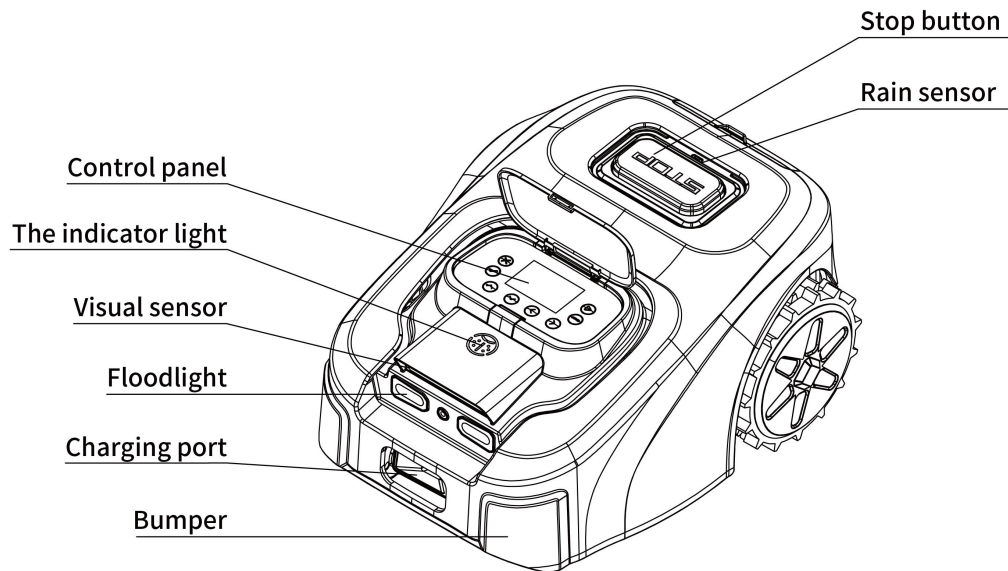
If there are missing or defective parts, please contact after-sales service. We recommend retaining the package for future transportation and shipping.



1. Lawnmower	2. Charging station base plate Charging station
3. RTK signal beacon	4. Tube-A
5. Tube-B	6. Base fork
7. Beacon extension cable	8. Nails
9. Power supply	10. Brush
11. User Manual	12. Battery pack

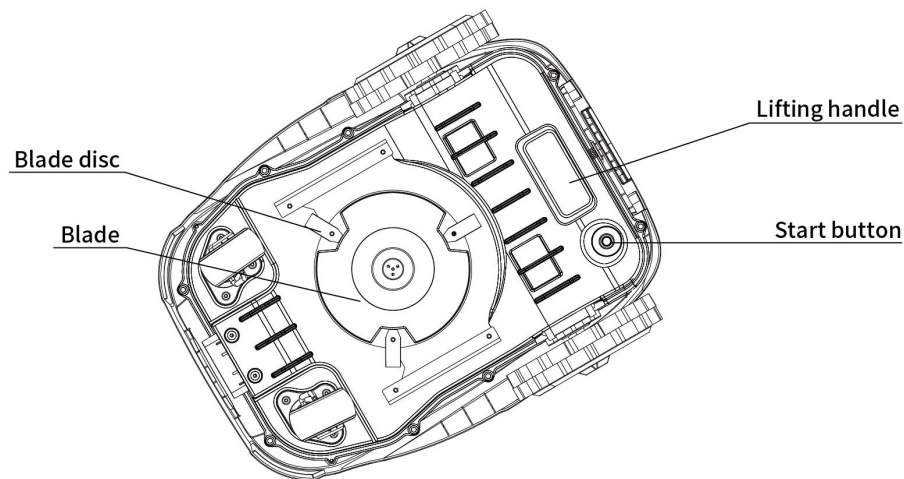
2.9 Main Components Overview

2.9.1 Top view



- **The indicator light :** iSward will have specific lighting effects to remind you to pay attention to the state of the lawnmower.
- **Stop button :** Stops the lawnmower and the blade immediately.
- **Control panel :** The buttons on the control panel can be used for the basic operations of the lawnmower: start mowing, return to the charging station, enter the PIN code to unlock the lawnmower, etc.
- **Rain sensor :** For raindrop detection.
- **Bumper :** When the bumper hits an obstacle and triggers the internal sensor, the lawnmower will go backward and avoid the obstacle.
- **Visual sensor :** Our models are equipped with Visual sensors, which could detect obstacles and avoid collision.
- **Floodlight :** When the outside light is weak, the lighting will provide illumination for the vision sensor.
- **Charging port :** The charging position of the machine.

2.9.2 Bottom view

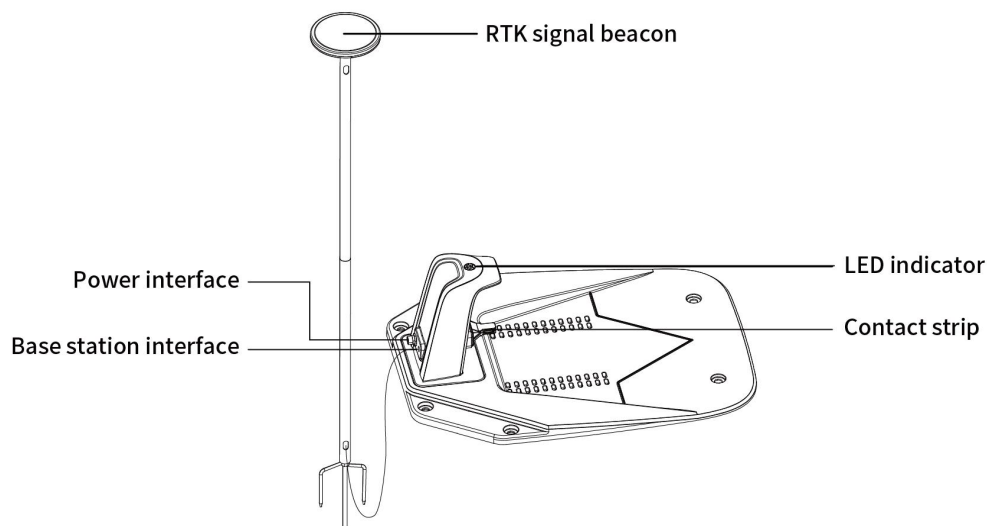


- **Blade** : The blades can rotate freely after being attached to the blade disc. When mowing, the spinning blade disc will generate centrifugal force to keep the blades pointing outside so that the blades can cut grass. When hitting an obstacle, the blade will turn inside.
- **Blade disc** : Blade disc height adjustment through iSward App.
- **Lifting handle** : Helps you lift the lawnmower when necessary.
- **Start button** : Switch the lawnmower on and off.

NOTE:

Never submerge the lawnmower in water, otherwise, the components may damage and the Limited Warranty will be voided.

2.9.3 Charging station and the RTK signal beacon



- **RTK signal beacon** : Receives satellite signals to improve the positioning accuracy of the lawnmower.
- **LED indicator** : Indicate different states with various colors.

NOTE:

If the RTK signal beacon has poor signal due to surrounding buildings or trees, the lawnmower will not work properly. You need to find a better spot for the station.

2.10 Technical Specifications

		GS	GX
Basic Information	Brand	ISWARD	
	Dimensions: Length × Width × Height	560mm*450mm*250mm(22*17.72*9.8in)	
	Net Weight (Battery Included)	13kg	
	Material	Lawnmower frame: ABS; cover: PC+ASA	
Lawnmower Parameters	Recommended Mowing Area	1000 m ²	2500 m ²
	Typical Mowing Time Per Full Charge①	About 160min	
	Cutting Width	19.6cm	23.5cm
	Cutting Height	3-6cm (1.2–2.4 in)	
	Charging Time	About 100min	
Working Conditions	Working Temperature	-10℃ ~ +60℃	
	Storage Temperature	-20℃ ~ +45℃	
	IP Rating	Lawnmower body IPX5; charging station IPX4; power supply IP65	
	Max. Incline Inside Working Area	57% (30°)	
	Max. Incline at Boundary	10% (5.5°)	
Driving Motor	Rated Speed	0.4m/s	
	Motor Type	Brushless motor	
Blade Motor	Rated Speed	2950r/min	2200r/min
	Motor Type	Brushless motor	
Cutting blade	Type	G10-45	
	Manufacturer	Dongguan Hua Jiari tools Co., LTD	
Battery Pack	Battery Type	Rechargeable LiFePO4 battery	
	Nominal Voltage	22.4V	
	Nominal Capacity/Energy	4Ah/89.6Wh	
	Battery Management System	Over-heating, short circuit, over-current and over-charge protection	
Power Supply	Type	AP-PN180CH02800040L	
	Input	100-240VAC, 50/60Hz, 2.5A MAX	
	Output Voltage	28VDC	
	Output Current	4A	
Charging Station	Type	G10-CDZ	
	Input Voltage	28Vdc.	
	Input Current	4A	
	Output Voltage	28Vdc.	
	Output Current	4A	
Other Features	Front Wheel	Omni-directional wheel	
	Rear Wheel	Brushless DC motor drive	
	Sensors	IMU Sensor, Obstruction Sensor, Lift Sensor, Rain Sensor, Wheel Encoder, Vision sensor, Temperature Sensor, Rollover Sensor	
Serve	Number of maps that can be saved	10	20
	Storage time of cloud platform data	2 years	

Tested at a standard cutting speed with a full battery at an ambient temperature of 25° C (77° F) while mowing a flat lawn. The product can mow more per hour on open areas than on separated small lawns. When the grass is wet or long, the working capacity is also smaller. The flatter the lawn surface, the larger the working capacity.

3. Installation and Setup

3.1 Installation Preparation

Read Safety Instructions

Before starting the installation, carefully read and understand all **safety instructions** to ensure safe and correct setup.

Use Original Accessories

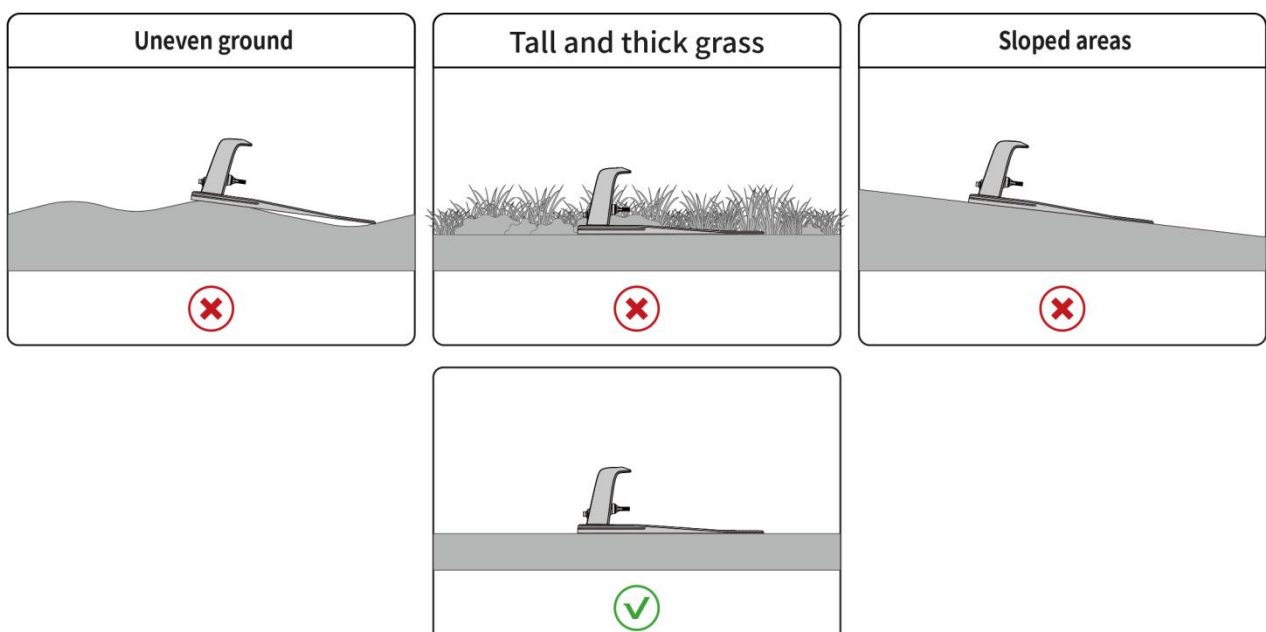
Always use the **original parts** and **installation materials** provided by ISWARD to ensure optimal performance and safety.

3.2 Prepare the lawn

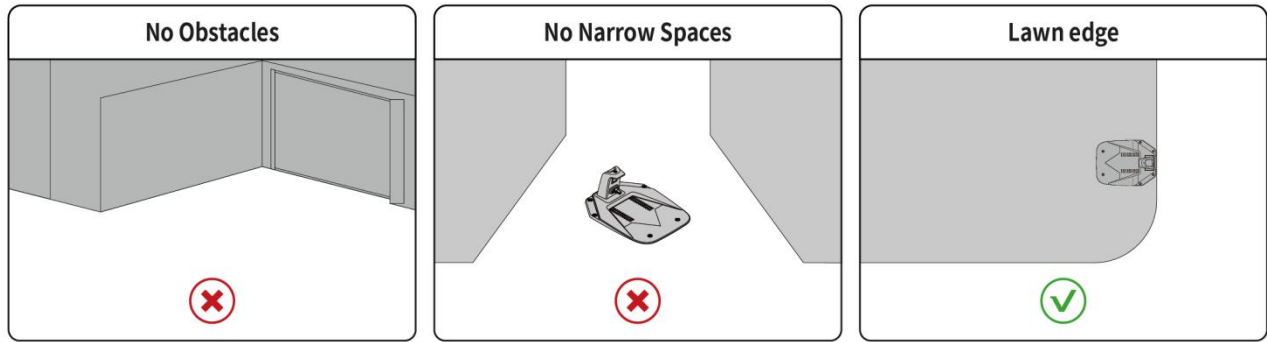
Remove debris, piles of leaves, toys, wires, stones and other obstacles. Make sure children and pets are off the lawn. Please cut your lawn to a height of no more than around 6 - 8 cm.

3.3 Choosing a Location for Charging Station

1. Place the charging station on a flat ground.

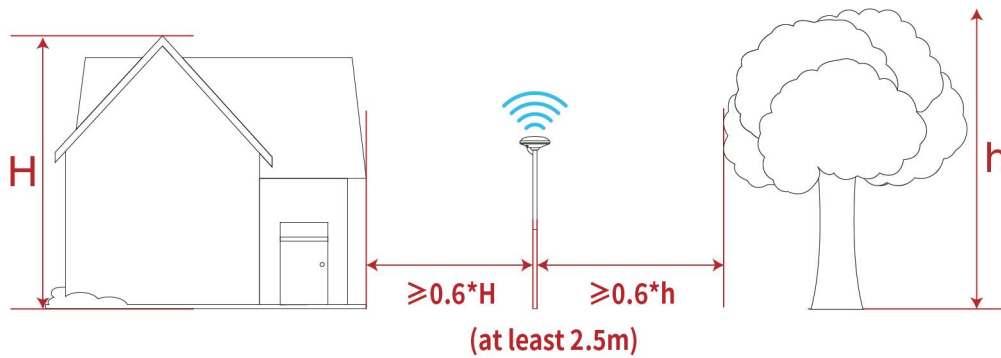
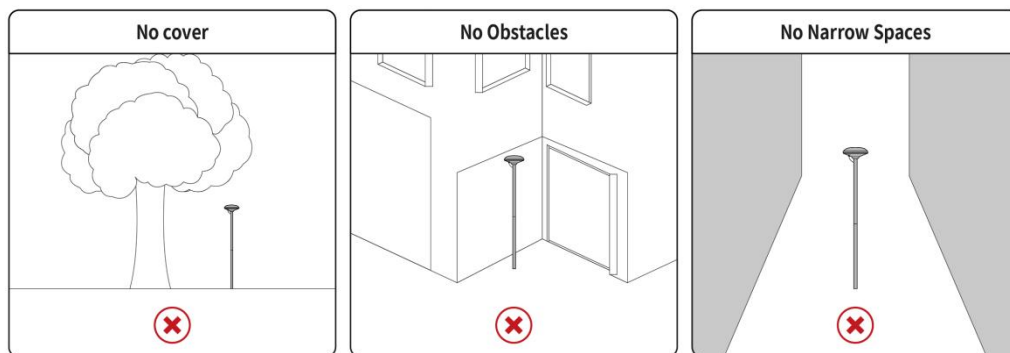


- Do not set up the charging station at the corner of an L-shaped building or in a narrow passage between two structures.

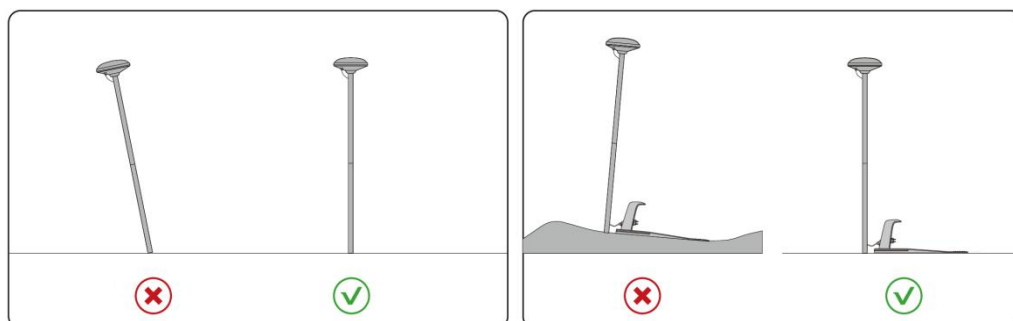


- The charging area (1.5 m/5 ft. in length in front of the charging station) must be clear of any obstacles or objects.
- The base plate of the charging station must not be bent or tilted.

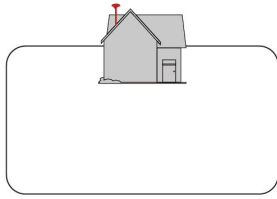
3.4 Choosing a Location for RTK Signal Beacon



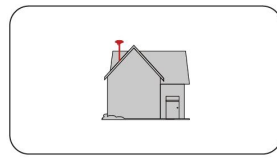
- When placed outside, the charging station and the lawn should be kept at the same level.



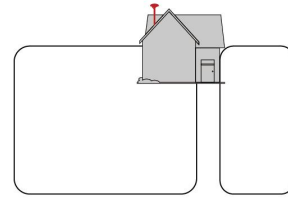
2. To optimize the performance of the RTK system, the RTK signal beacon must be in an open area to receive satellite signals. You can install the RTK signal beacon on an unobstructed wall or roof.



U shape

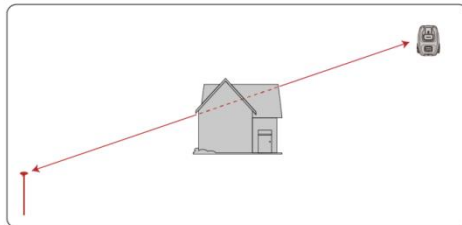
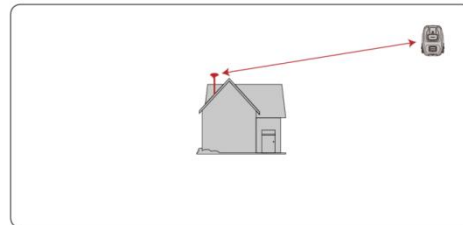


O shape



Multiple lawns

3. There should be no obstruction between the RTK signal beacon and the working area.



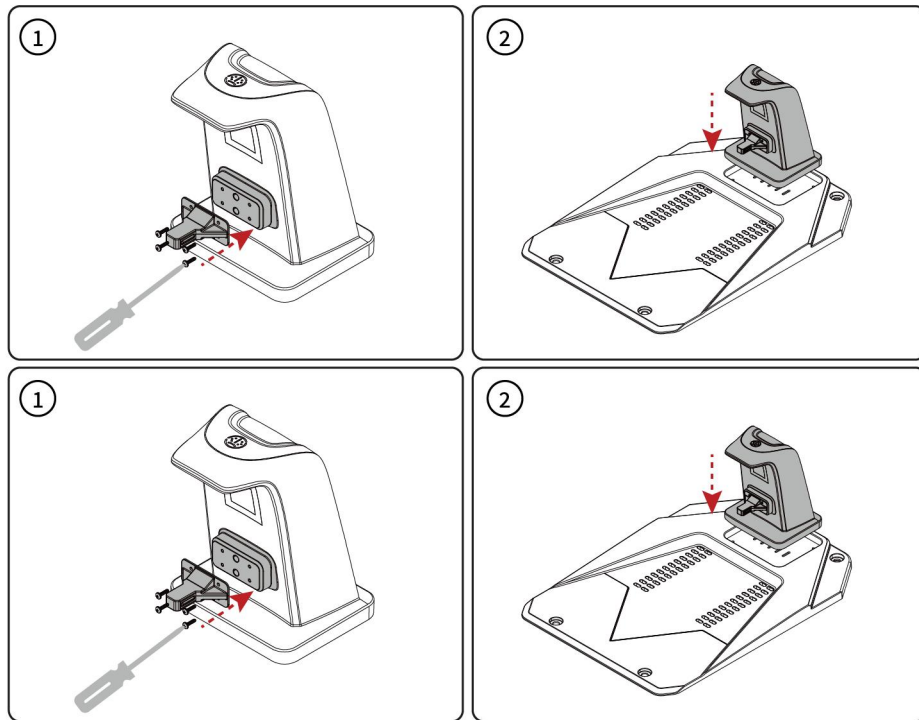
NOTE:

If the RTK signal beacon has poor signal due to surrounding buildings or trees, the lawnmower will not work properly. You need to find a better spot for the station.

3.5 Installing

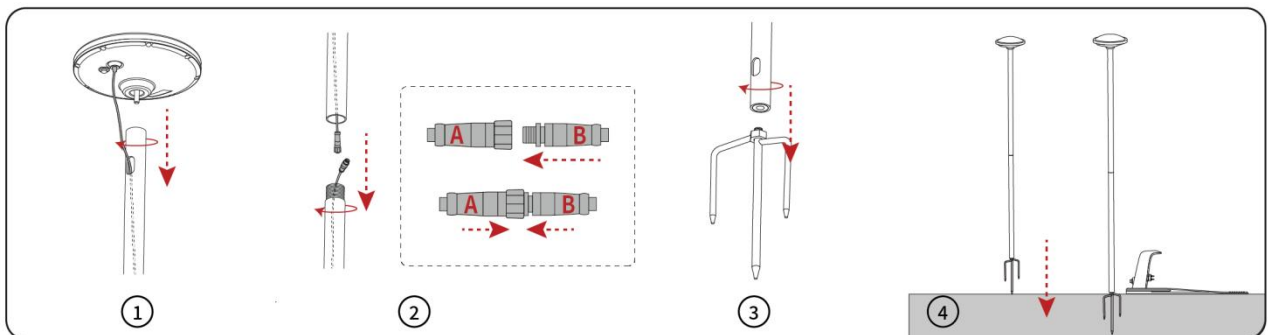
3.5.1 Installing the Charging Station

- Fix the charging station
- The side of the charging station panel with the indicator light should face to the lawn work area.



3.5.2 Installing the RTK Signal Beacon

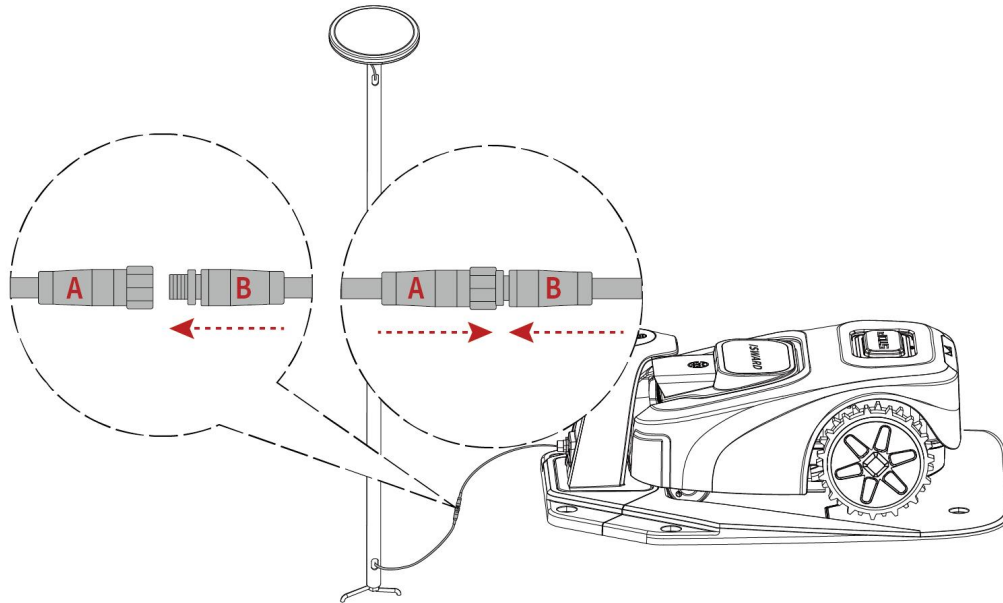
1. Rotate the RTK signal beacon on the tube.
2. Rotate the tube-A and the tube-B.
3. Rotate the tube-B onto the base fork.
4. Unfold the base fork and insert it into the ground.



NOTE:

- To make sure that the RTK signal beacon can be stably connected to the charging station once the installation is completed, please fully insert the base fork into the ground.
- Secure the nuts tightly to prevent water from entering them.
- Align the notch on the extension cable (A) with the groove on the power supply connector (B).

5. Connect the RTK signal beacon to the charging station

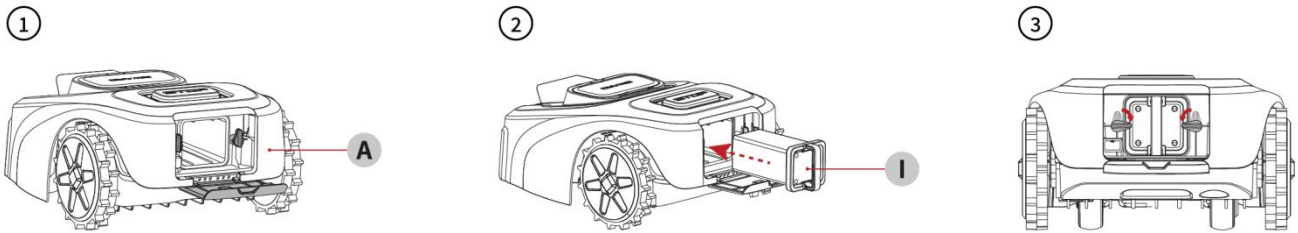


NOTE:

- The accessory is equipped with an additional extension cord, which can be connected by yourself if necessary.
- To ensure satellite signal, DO NOT put anything on the beacon.

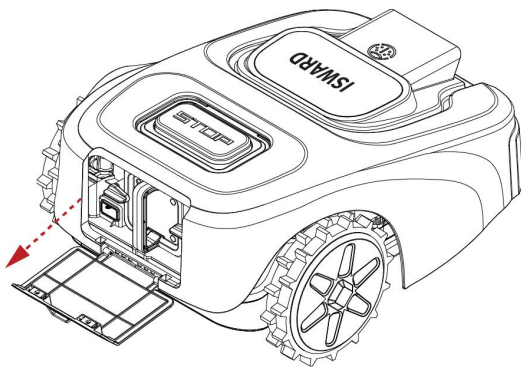
3.5.3 Installing the Battery Pack

Open the back cover of the machine, insert the battery, turn the lock, and close the back cover.

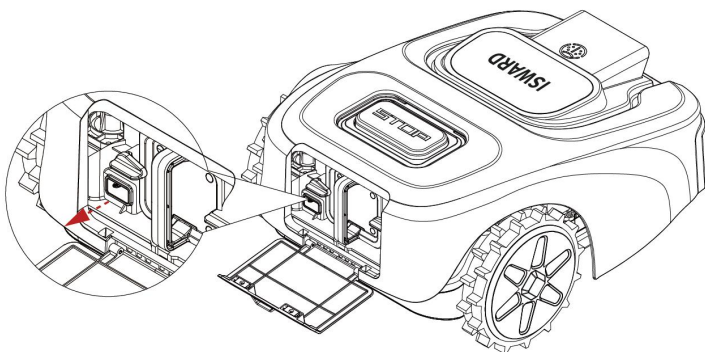


3.5.4 Installing the SIM card(Optional)

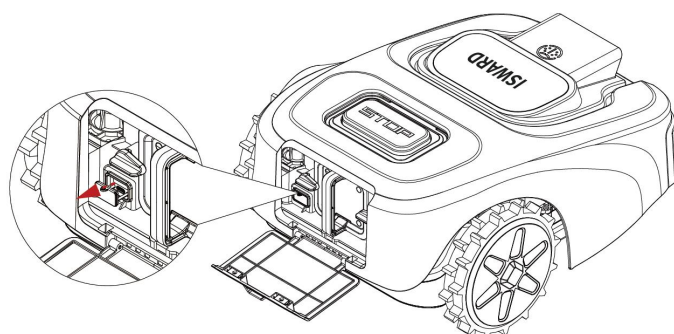
STEP 1: Open the back cover of the machine.



STEP 2: Open the SIM card slot plug.



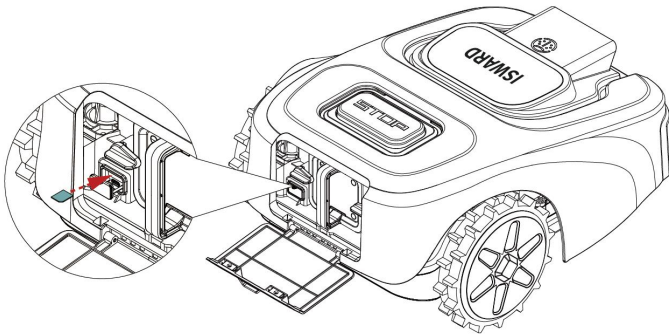
STEP 3: Install the SIM card as shown in the picture.



Note:

- Pay attention to the orientation of the SIM card during installation.
- Do not install the SIM card in the wrong direction.

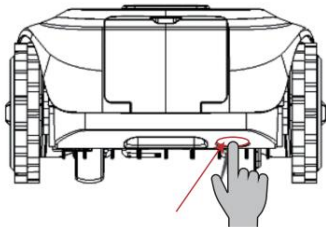
STEP 4: Install the rubber plug and close the back cover.



3.6 Device Startup and Initial Setup

3.6.1 Powering On the Device

1. Press the start button under the machine. Make sure the lawnmower activate.



Please wait about 1min until you hear “Beep!!!”.

2. Enable Mobile location, Bluetooth, 4G on your phone, log in to the app and follow the instructions to pair with the lawnmower.

3.6.2 First-Time Charging

Temperature Limitations

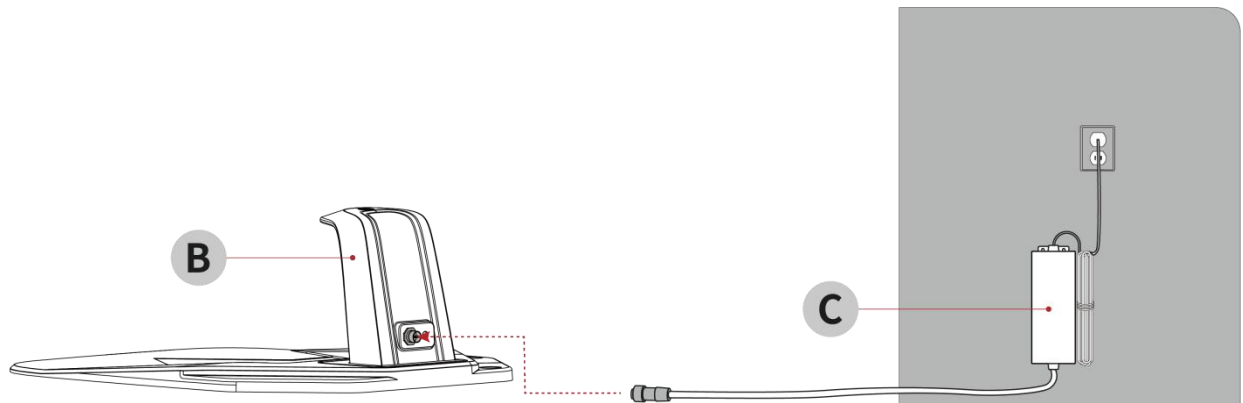
- Only charge the mower in environments between **0° C (32° F) and 45° C (113° F)**.
- The mower's battery includes a **built-in temperature protection system** and will **not charge** outside this temperature range.

Before using your ISWARD robotic lawn mower for the first time, ensure that the charging station and RTK base station are properly installed.

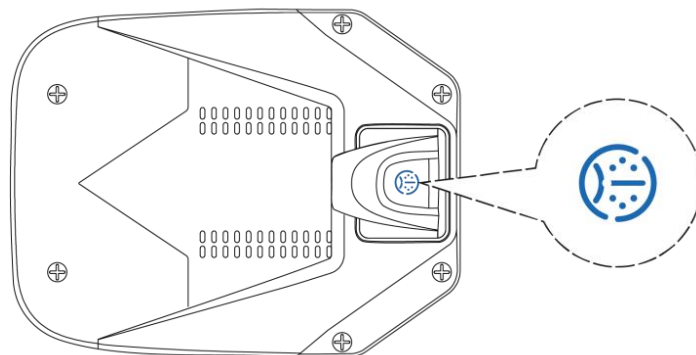
Follow these steps for safe and efficient charging:

1. Connect the Power Supply

- Plug the charging station's adapter into a power outlet.

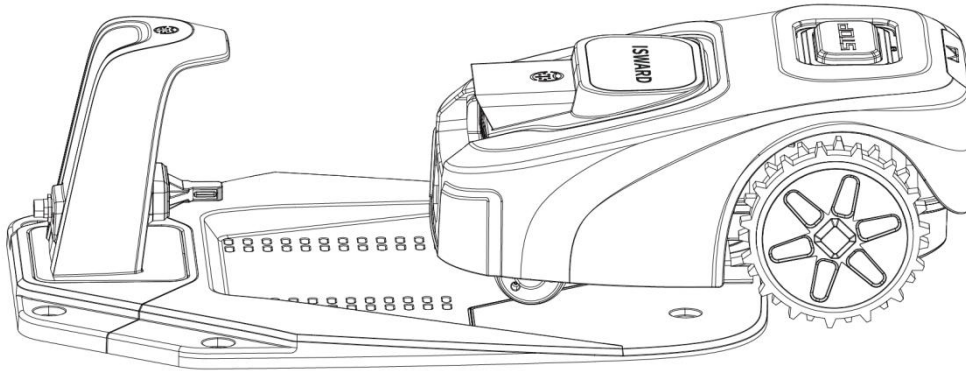


- Ensure the LED indicator on the charging station turns solid blue, indicating a stable power connection.

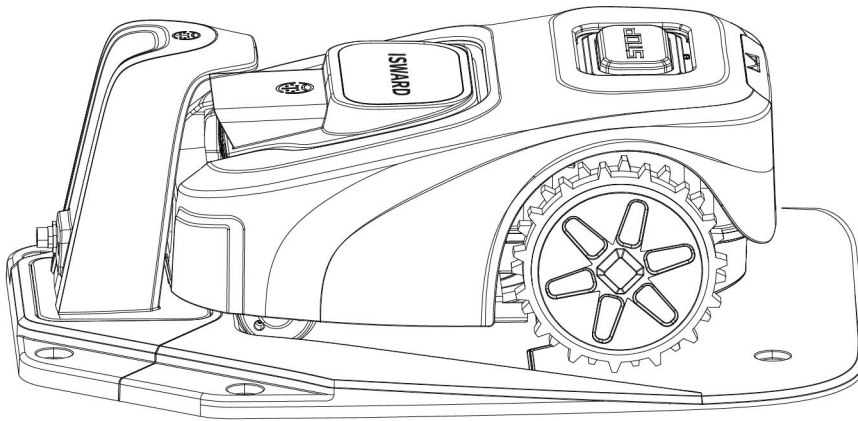


2. Position the ISWARD Mower

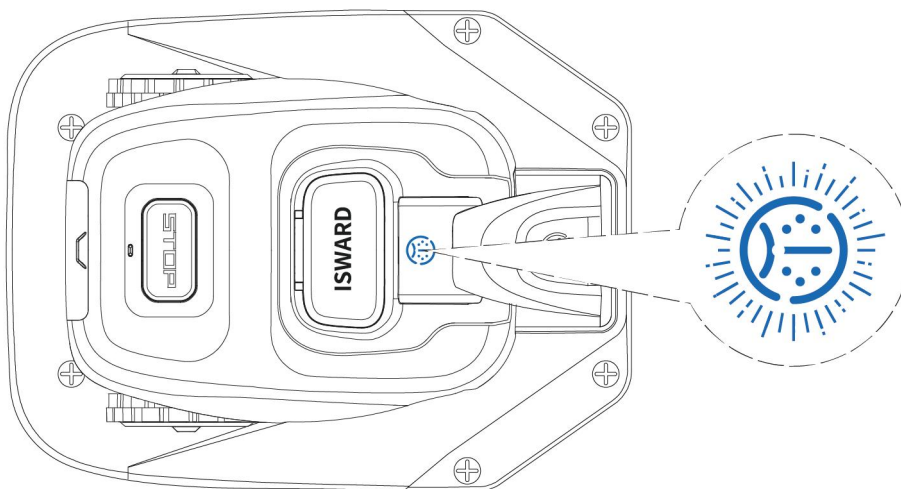
- Carefully place the ISWARD mower onto the charging station.



- Align the mower's rear charging slot with the station's charging connector.

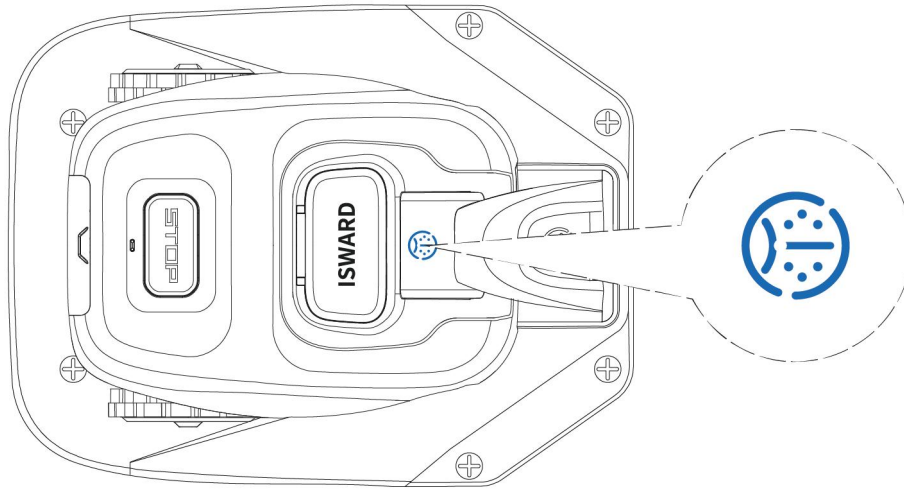


- Wait for 5 seconds—the mower's LED light should begin flashing blue, signaling successful docking.



3. Complete the Charging Process

- Robot is complete when the LED indicator on the charging station turns solid blue.



Warnings and Safety Precautions

Prevent Charging Damage

- Do not charge the mower if the mower, power supply, charging station, or power outlet is damaged.

Temperature Limitations

- Only charge the mower in environments between 4° C (39.2° F) and 40° C (104° F).
- The mower's battery includes a built-in temperature protection system and will not charge outside this temperature range.

Handle Abnormalities Immediately

- If you notice unusual smells, sounds, or LED indicator malfunctions, stop charging immediately and contact ISWARD customer support.

Keep Away from Flammable Materials

- Ensure the mower is charged away from any flammable or explosive materials to prevent safety hazards.

4. Operation

4.1 App Download and Device Pairing

Preparation Steps

Before starting the operation, complete the following checks: Read Safety Instructions
Carefully read and understand all safety instructions to ensure safe operation.

Verify Device Installation

Ensure that the **charging station** and **RTK base** station are **correctly installed**.

Check Charging Status

Confirm that the **ISWARD mower** is properly **docked** on the charging station.

Ensure Network Connectivity

Make sure the **Wi-Fi** or **mobile hotspot** signal is **stable and strong**.

Enable Bluetooth

Keep your smartphone's **Bluetooth** turned **ON** for seamless pairing.

4.2 Active the lawnmower

Step1: Downloading the ISWARD App

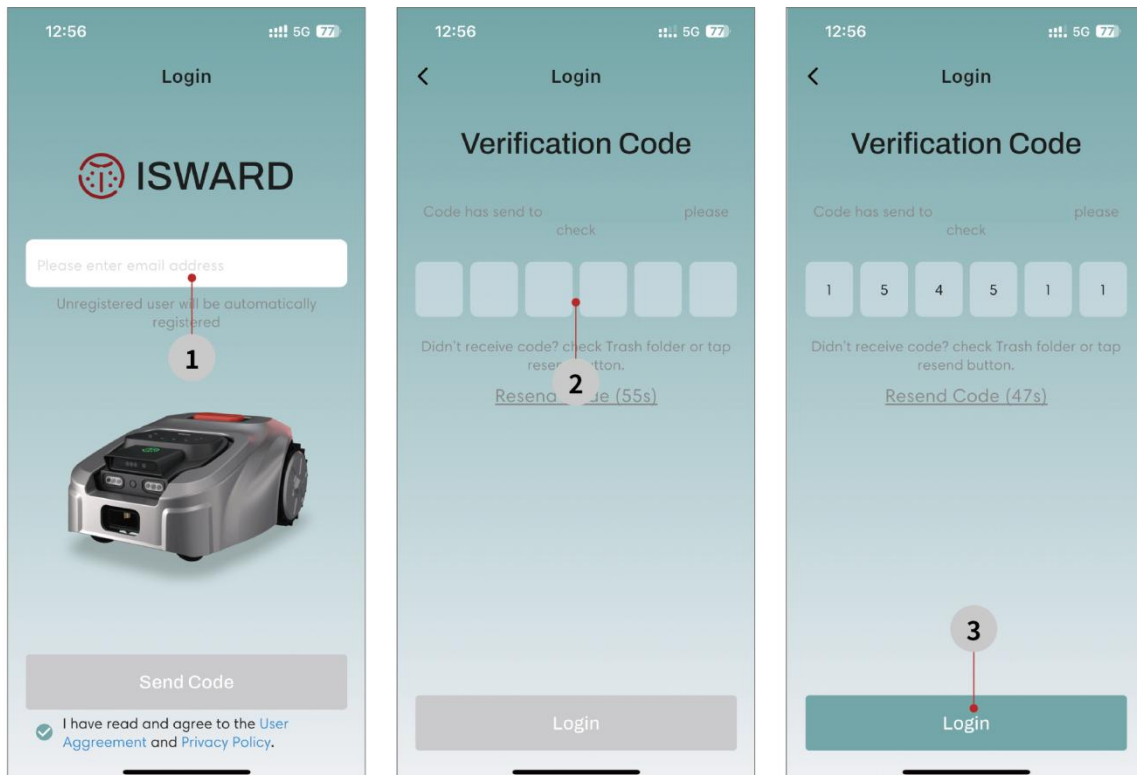


Get it on Google Play store



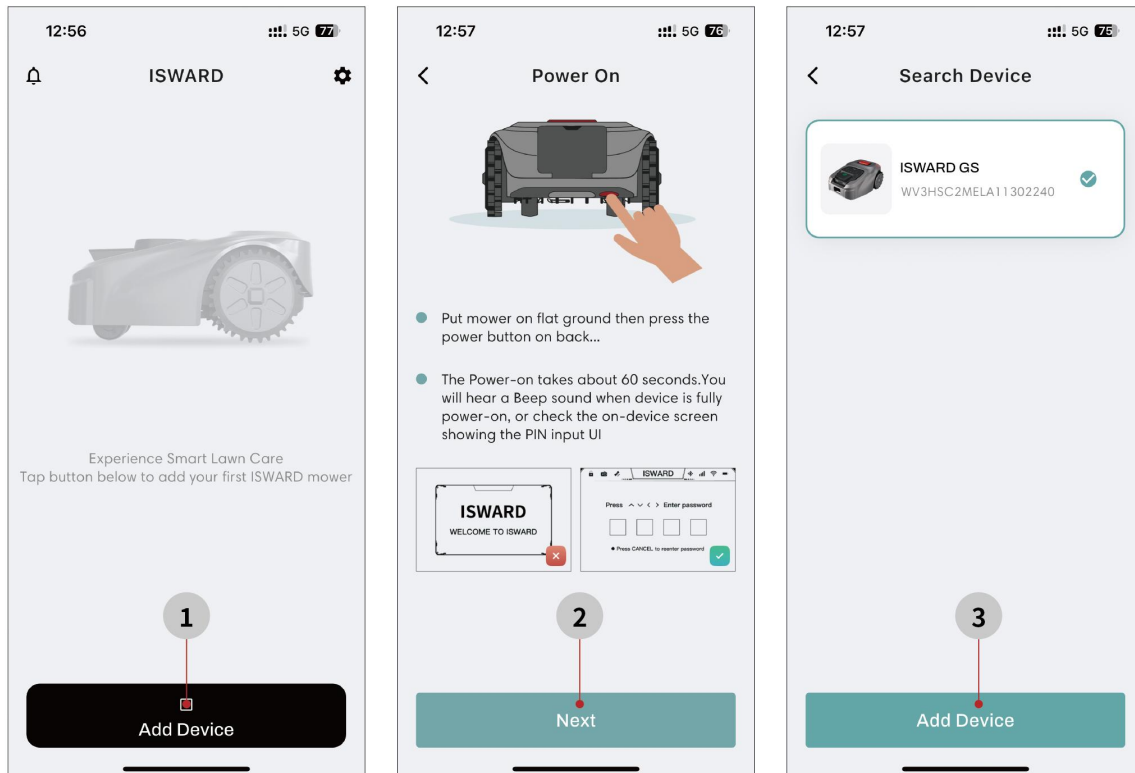
Get it on Apple App Store

Step2: Account Registration and Login



Please enter email address , Click "**send code**" Received code input. If you do not receive it, please click "Resend Code",Click "**login**" to proceed to the next step.

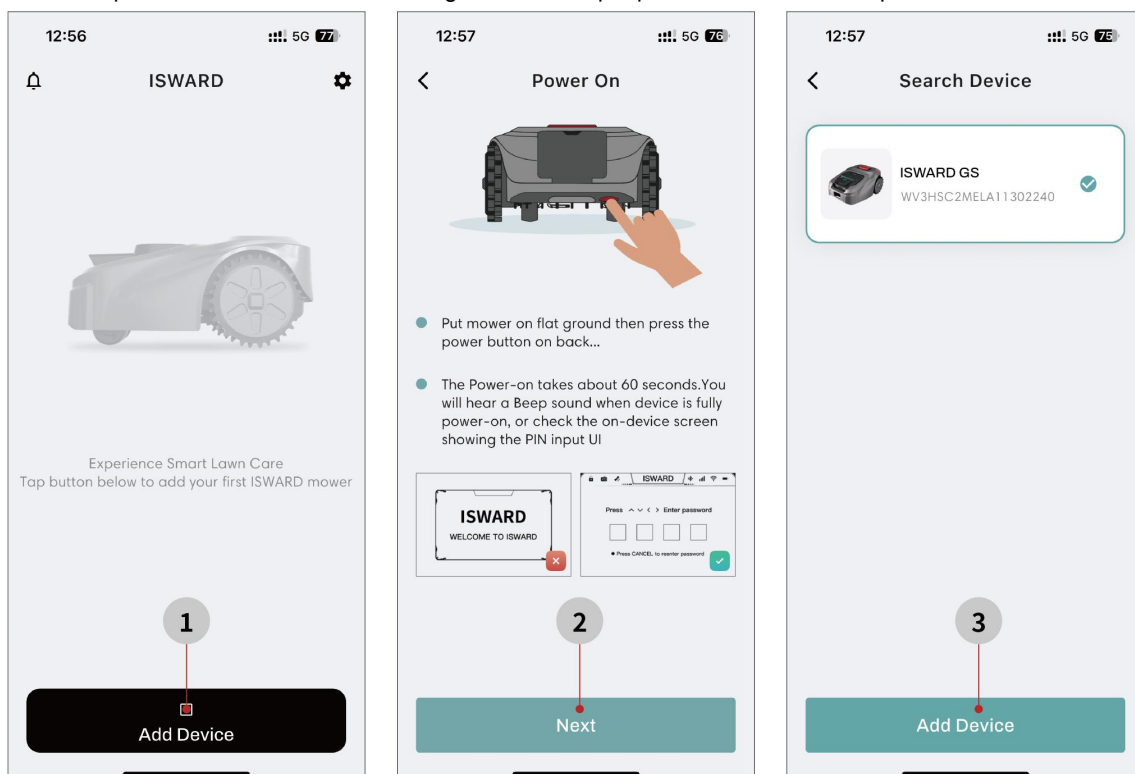
Step3: Pairing the ISWARD Robotic Mower



Click to add a device, Select the device found by Bluetooth and connect it to your machine.
Click "Add Device" to proceed to the next step.

Step4: Completing the Setup Wizard

After successfully pairing your ISWARD G Series robotic mower with the ISWARD App, follow the on-screen Setup Wizard to finalize the configuration and prepare the mower for operation.



4.3 Mapping and Editing

4.3.1 Before mapping

Clear the Lawn

- Remove any debris, fallen branches, stones, toys, or tools from the mowing area.
- Ensure that pets, children, and other people are not present on the lawn.

Install the RTK Signal Beacon Correctly

- Place the RTK Signal Beacon in an open area with a clear view of the sky for stable satellite signals.
- Avoid locations near trees, rooftops, or walls that can obstruct signals.

Check Device Status

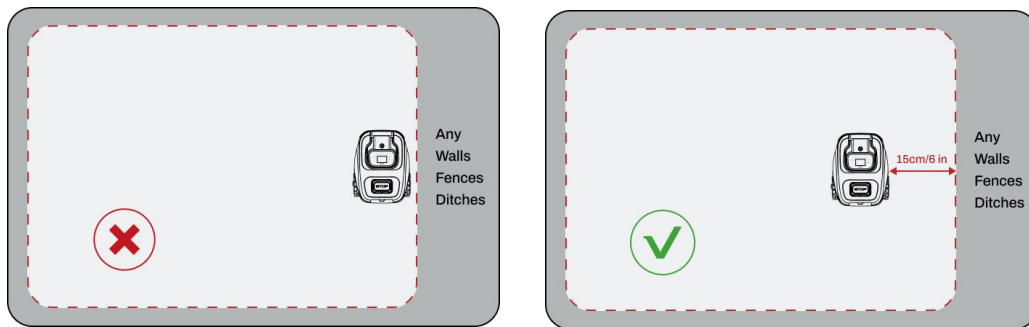
- Confirm that the ISWARD mower is fully charged and properly docked on the charging station.
- Ensure that the mower's positioning is stable in the device status via APP.

Bluetooth and Network Connection

- Enable Bluetooth on your smartphone.
- Ensure a strong Wi-Fi or 4G signal for uninterrupted connectivity.

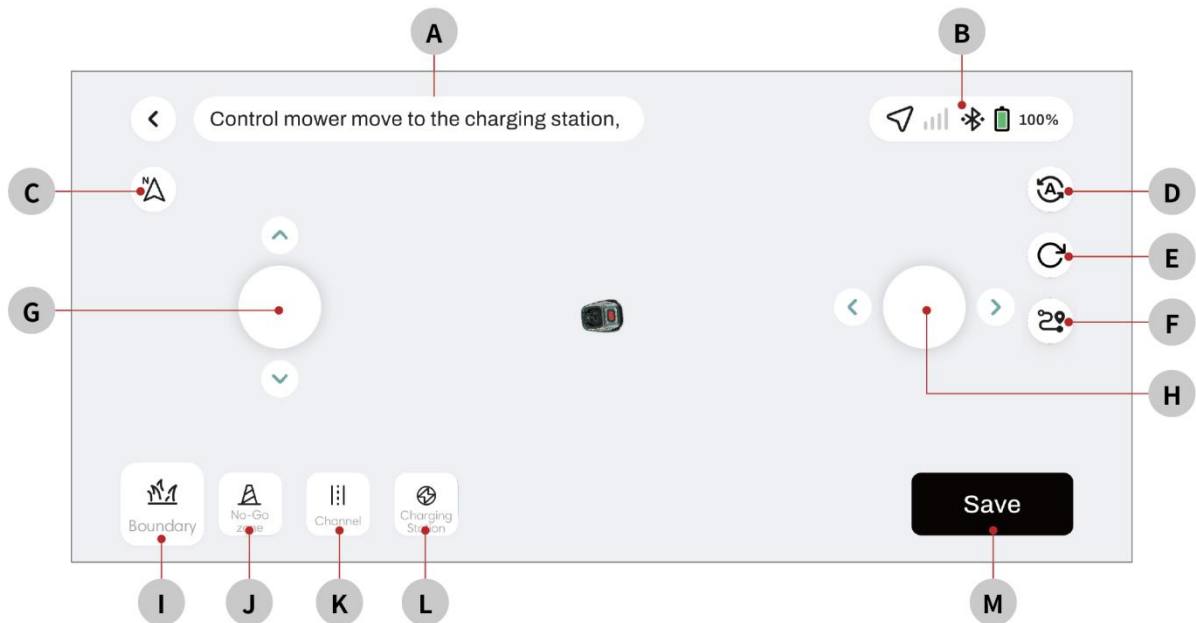
Maintain Safe Distance from Obstacles

- Leave at least 15 cm (6 in) between the mower and any walls, fences, or ditches during mapping.
- Do not guide the mower over uneven curb



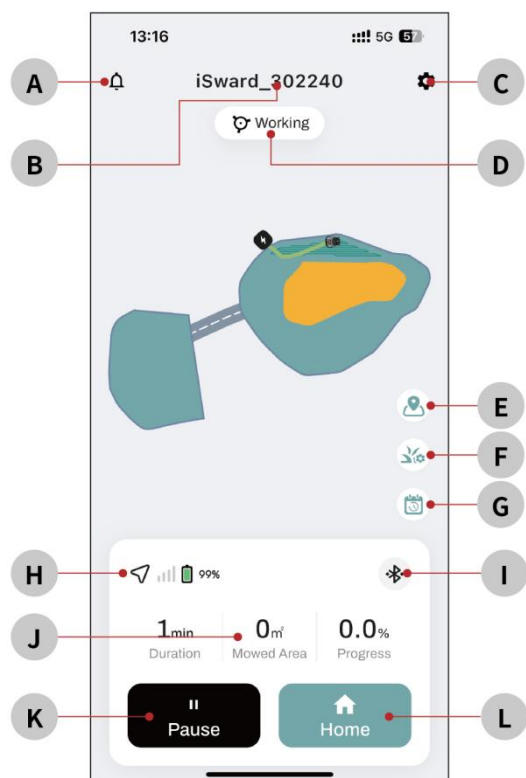
4.3.2 Icon Annotations in the App

Main Page Introduction



- | | |
|---|-----------------------|
| A. Operation Guide | H. Go left/right |
| B. Robot status | I. Boundary |
| C. Machine head: Upward/Northward | J. No-Go Zone Channel |
| D. Sample Mode: Auto Mode /Manual Mode | K. Channel |
| E. Empty the sampling points | L. Charging Station |
| F. Record (sample) the current point | M. Save |
| G. Forward/Backward | |

Mapping Page Introductio

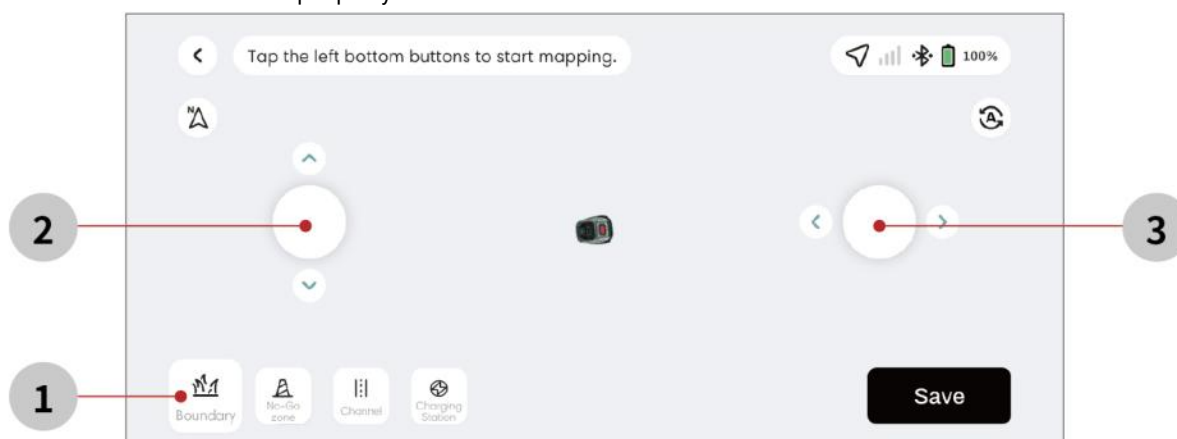


- A. Notifications
- B. Robot Name
- C. Settings
- D. Status of the robot
- E. Map Modification
- F. Mowing Setting
- G. Time schedule
- H. Navigation status / Signal status/ Battery status
- I. Bluetooth status
- J. Duration/Mowed Area/Progress
- K. Start/Pause
- L. Return to the Charging Station

4.3.3 Mapping Your Lawn

Adding Boundary

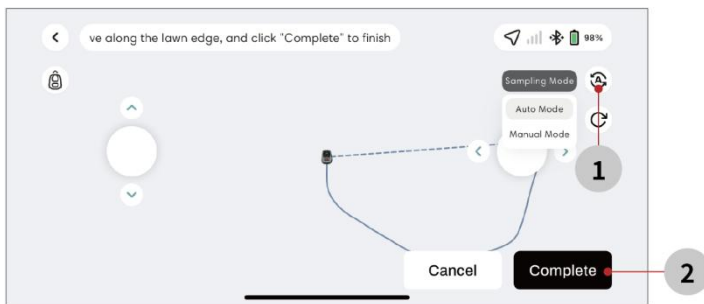
Lawn boundary refers to the boundary line that marks the trimming area on the lawn, beyond which the lawn mower cannot function properly.



To set the boundaries for the ISWARD robotic lawn mower, follow these steps:

1. **Click the "Boundary" Button (Button 1)** :Open the boundary setting mode by clicking the "Boundary" button on the app.
2. **Control the Mower** , Use the operation direction buttons:
Forward and Backward (Button 2): Use these to drive the mower along the edge of the working lawn in a forward or backward direction.
Left and Right Turns (Button 3): These buttons control the mower to make turns, guiding it along the perimeter of the area where you want the mower to operate

3. If an error occurs during the boundary drawing process, simply click **"Cancel"** to stop and reset the boundary path.
4. Once the boundary is correctly set, click **"Complete"** to finalize the drawing and proceed to the next step.



Set the drawing mode and add "Manual Mode" at the corner of the lawn to form a complete working lawn.

Note:

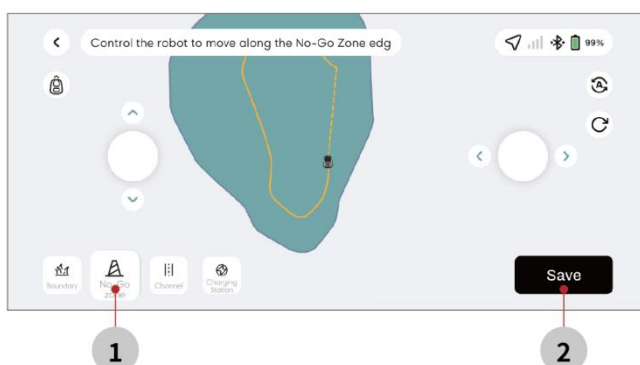
"Manual Mode" drawing method is suitable for neatly maintained lawns.



4.3.4 No-go Zone

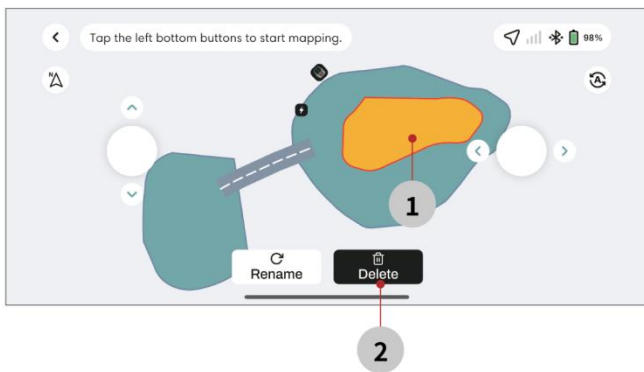
Adding No-go Zone

Set the area within the boundaries of the painted lawn that does not need to be mowed. Objects that exist within the mowing area need to be added as No-Go Zone.



1. Click the **"No-go Zone"** icon to start building, and the robot rotates counterclockwise to bypass obstacles.
2. Click the **"Save"** button to save the current **"No-go Zone"** and proceed to the next step.

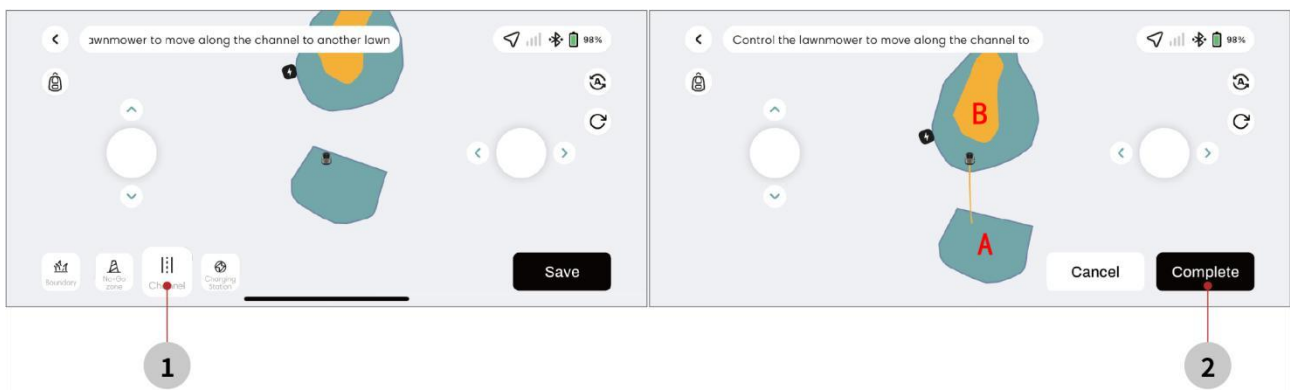
Deleting No-go Zone



Click on the color block of the obstacle you want to remove, then click the **"Delete"** button.

4.3.5 Channel

When there are multiple lawn boundaries, "Channel" is used to navigate across multiple lawns. If your lawn has **separate zones**, tap **"Channel"** to connect areas with narrow paths.

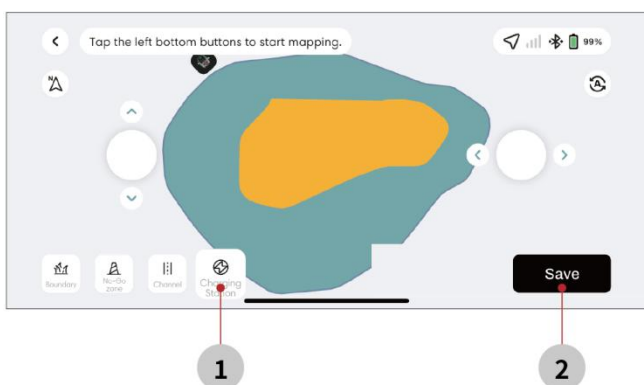


1. Remote control to near the edge of **lawn A**, and tap **"Channel"**
2. Remote control the car along the channel to **lawn B**.
3. After reaching Lawn B, click **"Complete"** to finish.

Note:

The two endpoints of the channel must be within the lawn boundaries. Ensure the channel width is greater than 1m to allow smooth passage of the lawn mower. Avoid placing any obstacles in the path. Additionally, make sure the start and end points are positioned within the map.

4.3.6 Charging Station

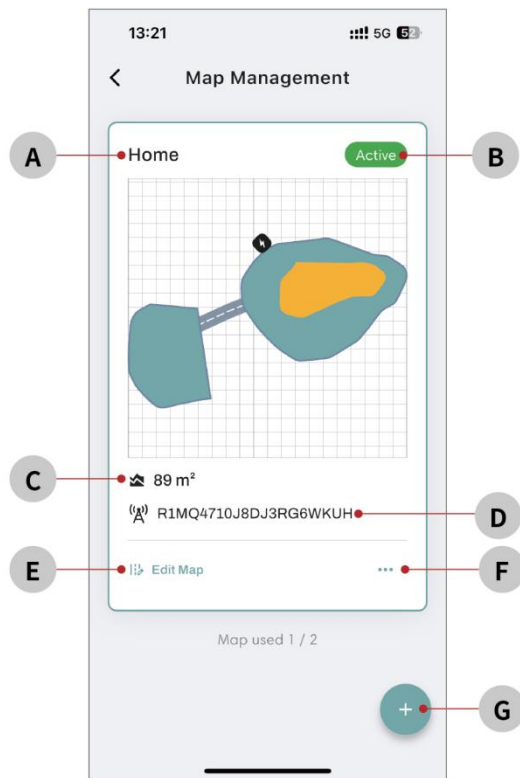


Step 1: Click **"Charging Station"**.

Step 2: Use the app to remotely drive the machine to the charging station until the logo light on the machine starts flashing slowly in blue.

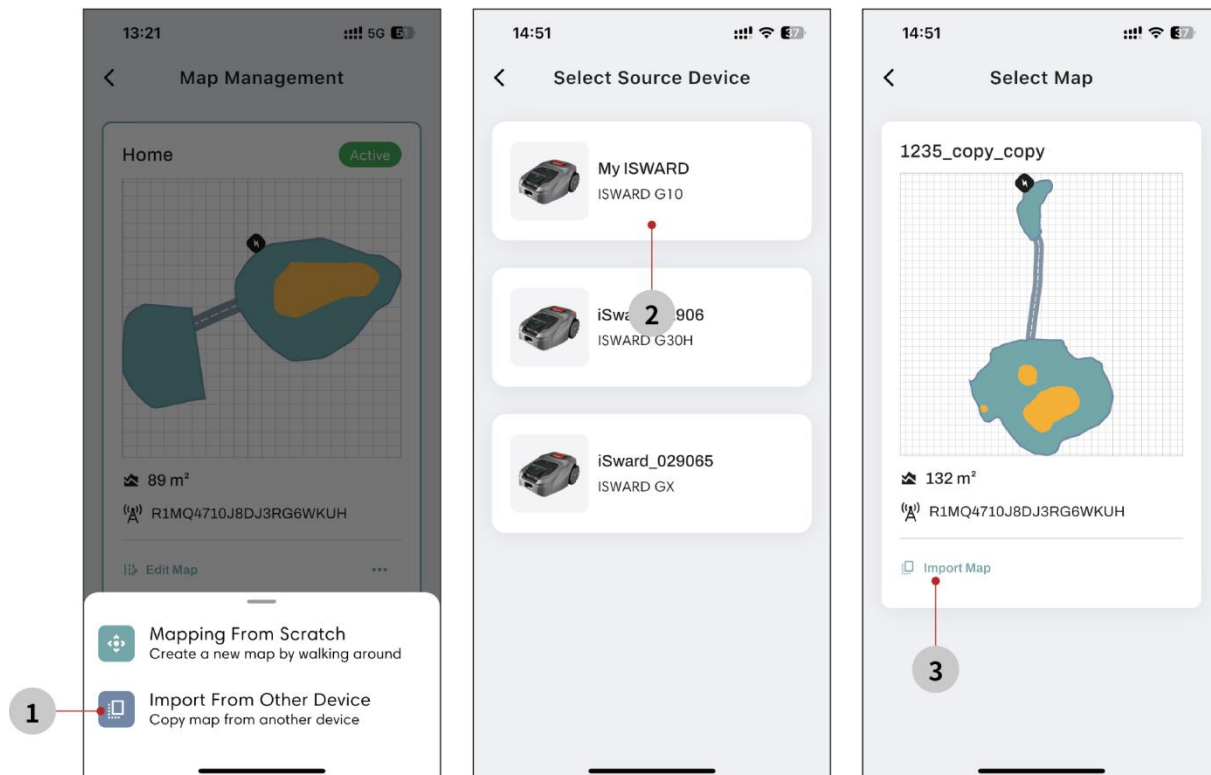
Step 3: Click 'Save' to complete the setup.

4.3.7 Map management

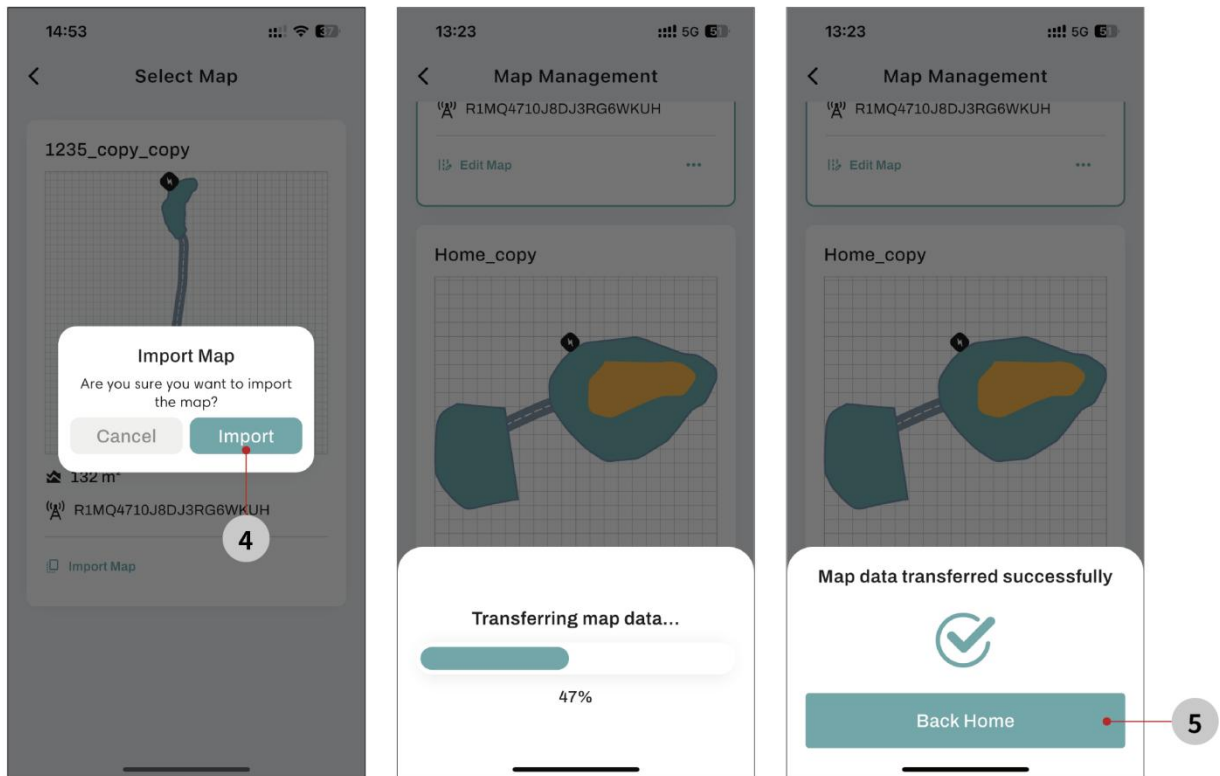


- A. Lawn Name
- B. Status
- C. Lawn Area
- D. Switch the Lawn Mower On/Off
- E. Edit Map
- F. Copy/Delete Current Map
- G. Add New Map

Copy map from another device



Click the "+" icon, select **"Import From Other Device"** in the pop-up window, then click **"Import Map"**, and choose the lawn corresponding to the machine you need to add.

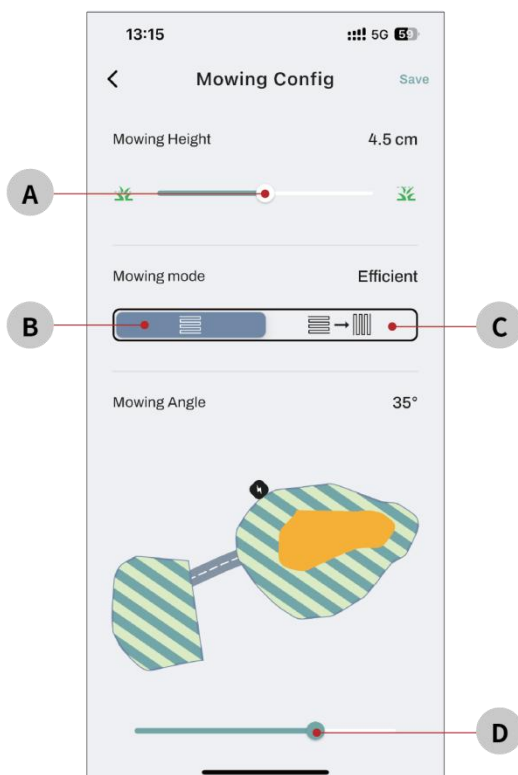


Click the "**Import**" button and wait for the operation to complete before clicking "**Back Home**".

4.3.8 Mowing Mode and Path Setting

Open the **ISWARD App**. From the main screen, Click the "  " icon.

Mowing Height



A : Slide to adjust the mowing height

B : Efficient Mowing mode

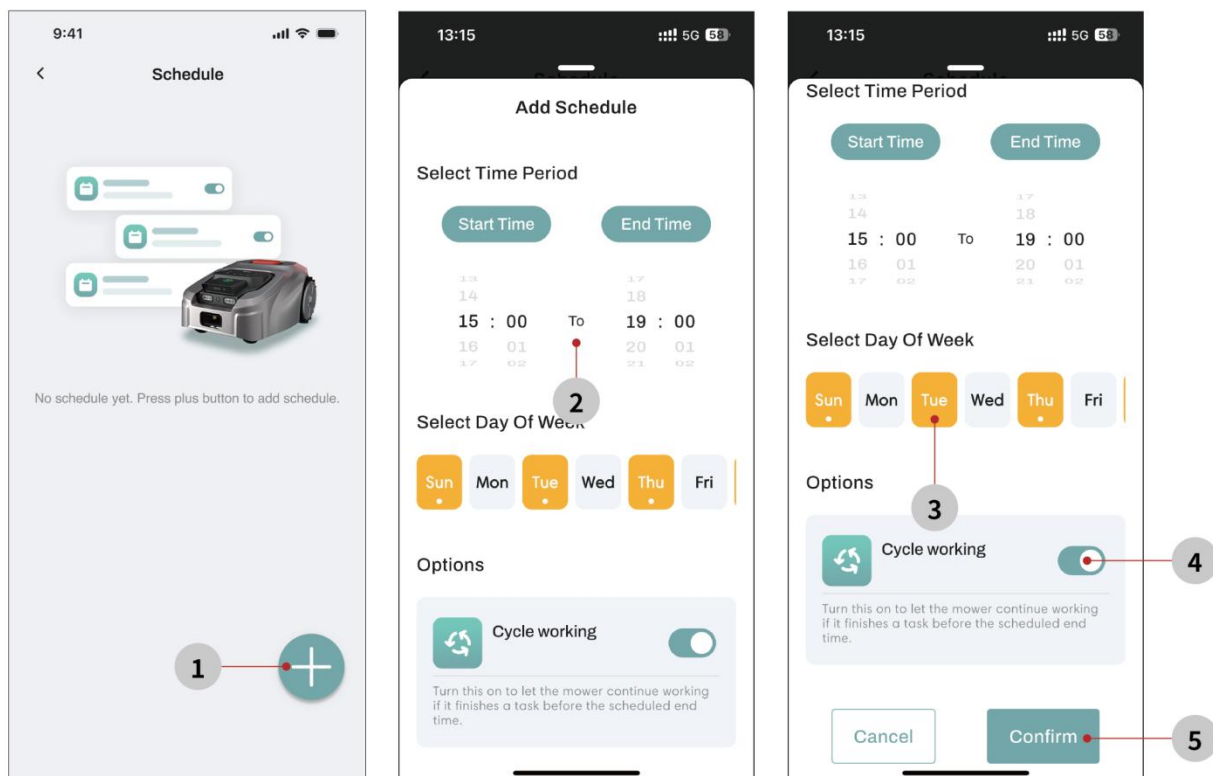
C : Smart Cross Mowing mode

D : Mowing Angle

- **Efficient Mode** : The mower trims the grass in a single direction along the edge.
- **Smart Cross** : After completing one mowing session, the mower automatically rotates its cutting direction by 90 degrees for the next session. This mode ensures a cleaner cut and higher coverage.

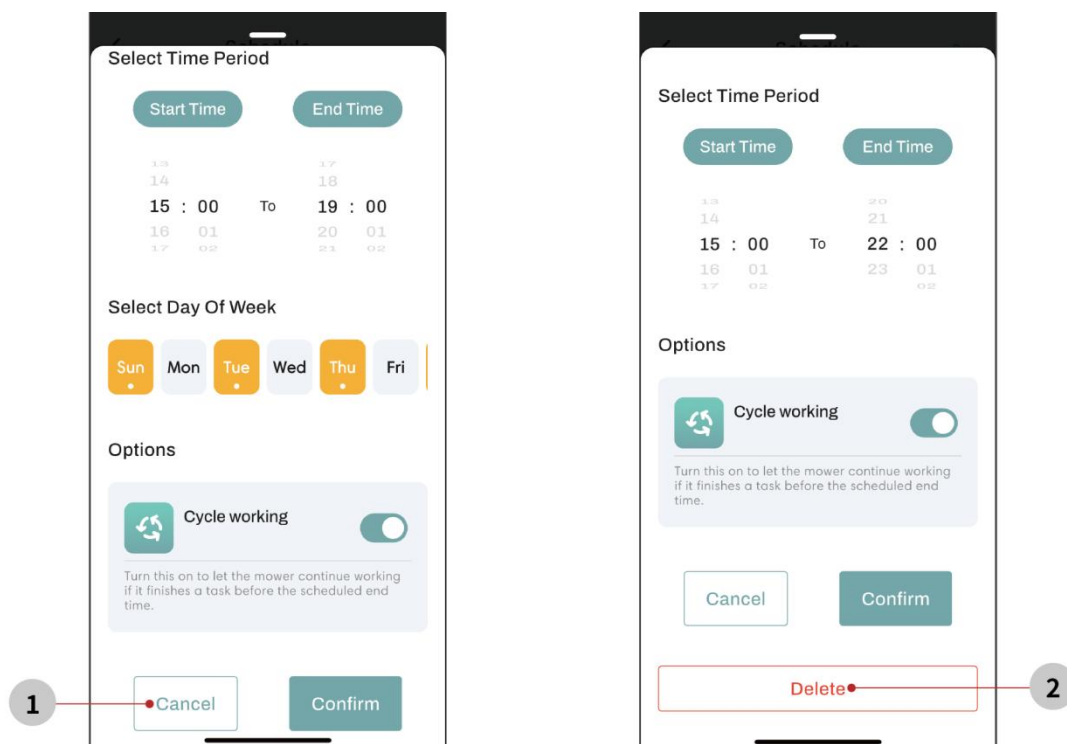
4.3.9 Task schedule

How to Set Up a Task Schedule



Click the "+" icon to set the lawn mowing time period, select specific mowing dates, and confirm whether to enable the cyclic work mode. After setting is complete, click the "Confirm" button.

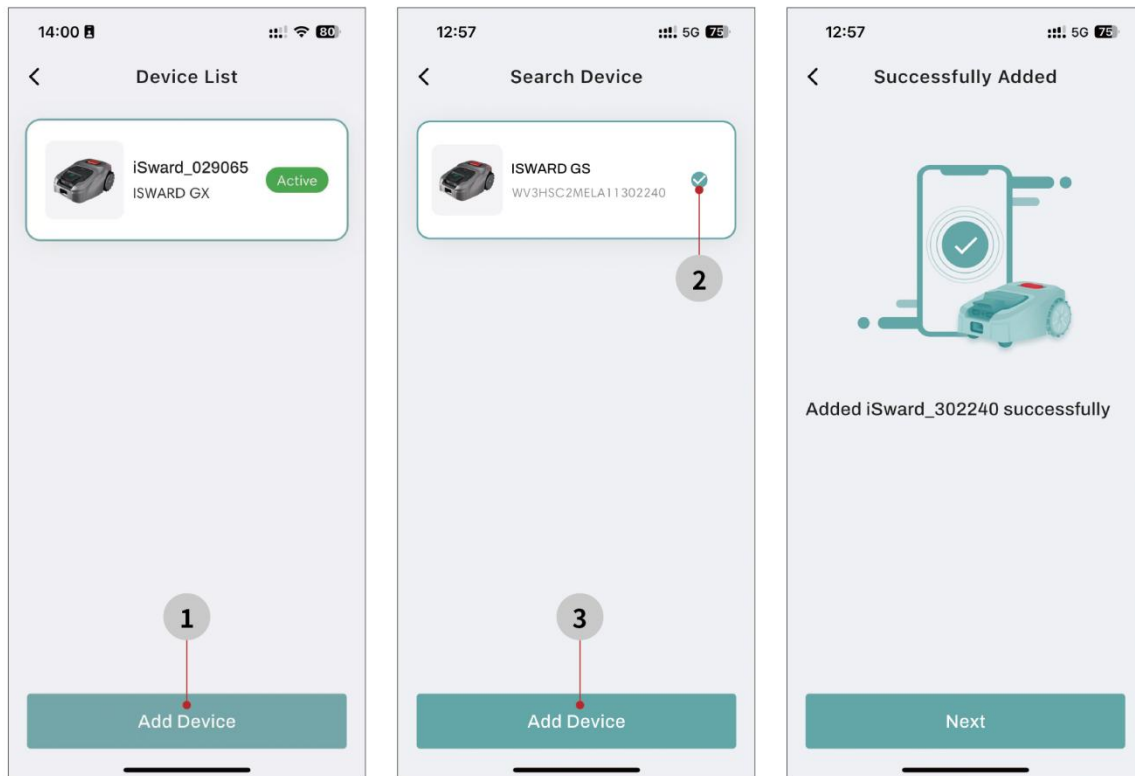
To change/delete a schedule



Click on the schedule you wish to delete to enter the details page. Click the **"Cancel"** button to cancel the current settings and reschedule; click the **"Delete"** button to remove the current schedule.

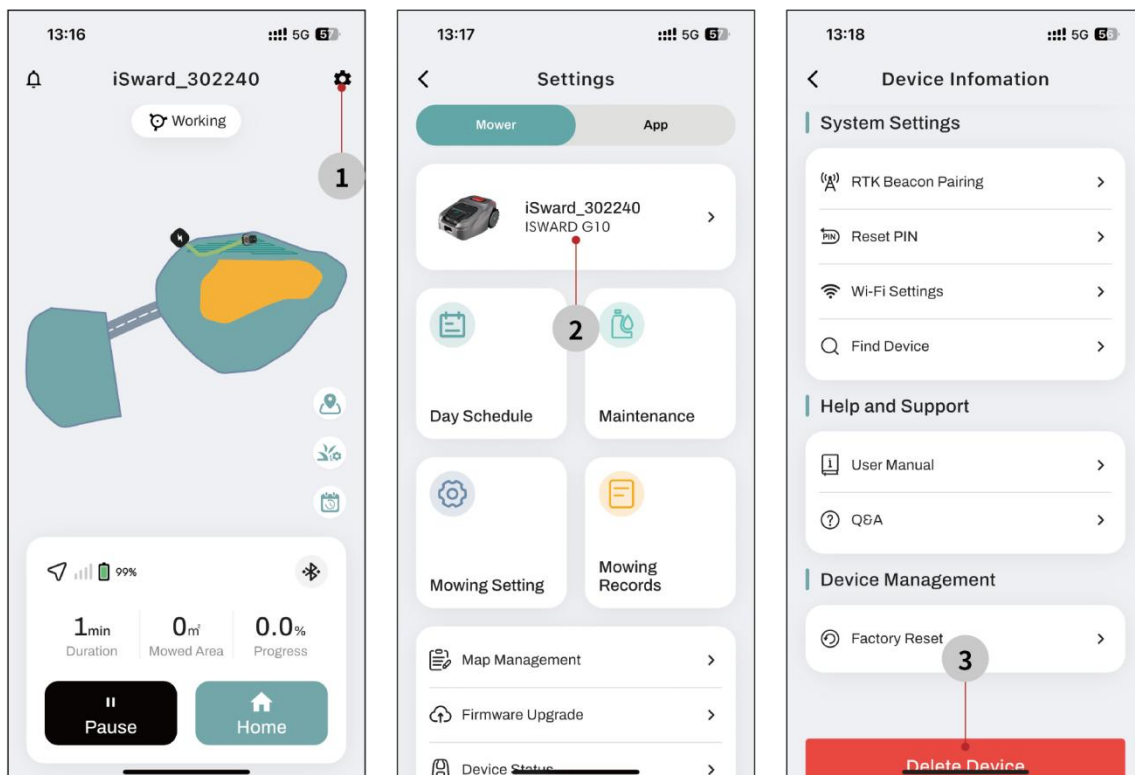
4.3.10 Mowers Management

Add a New Mower



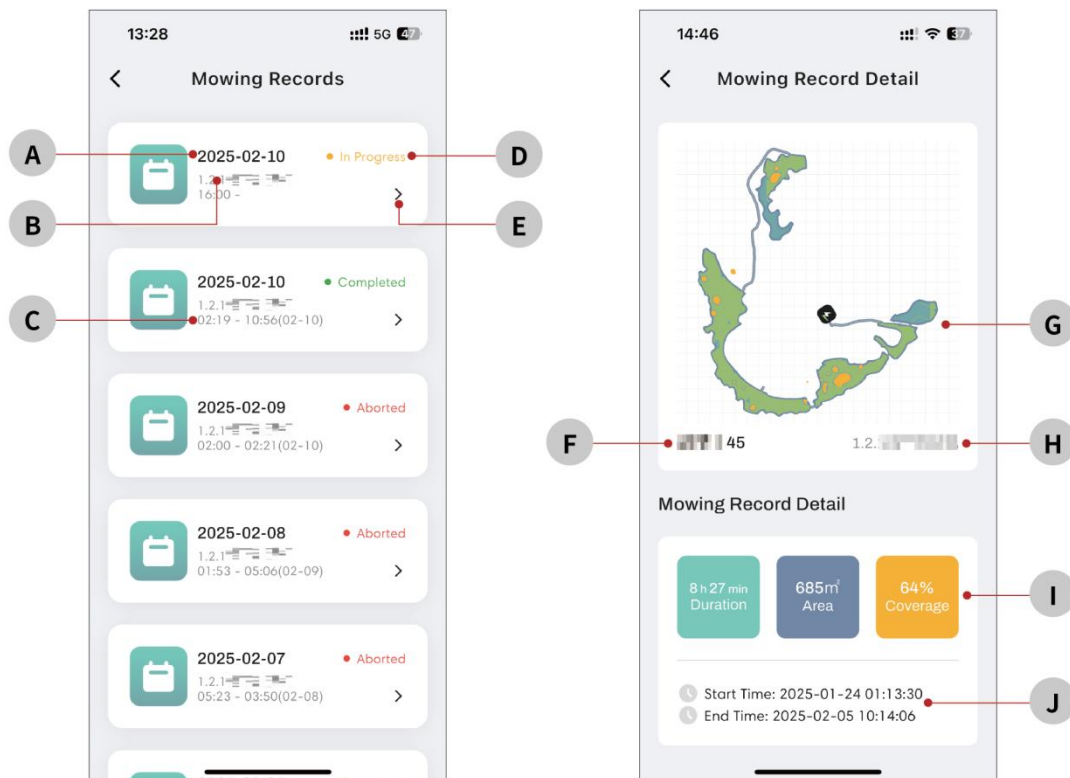
Open the "**Device List**" page, click the "**Add Device**" button, select the new device from the search results, then click "**Add Device**" button, and complete the operation.

Delete Mower



Click the "**Settings**" button on the homepage, go to the "**Device Information**" page, and click "**Delete Device**" at the bottom of the page.

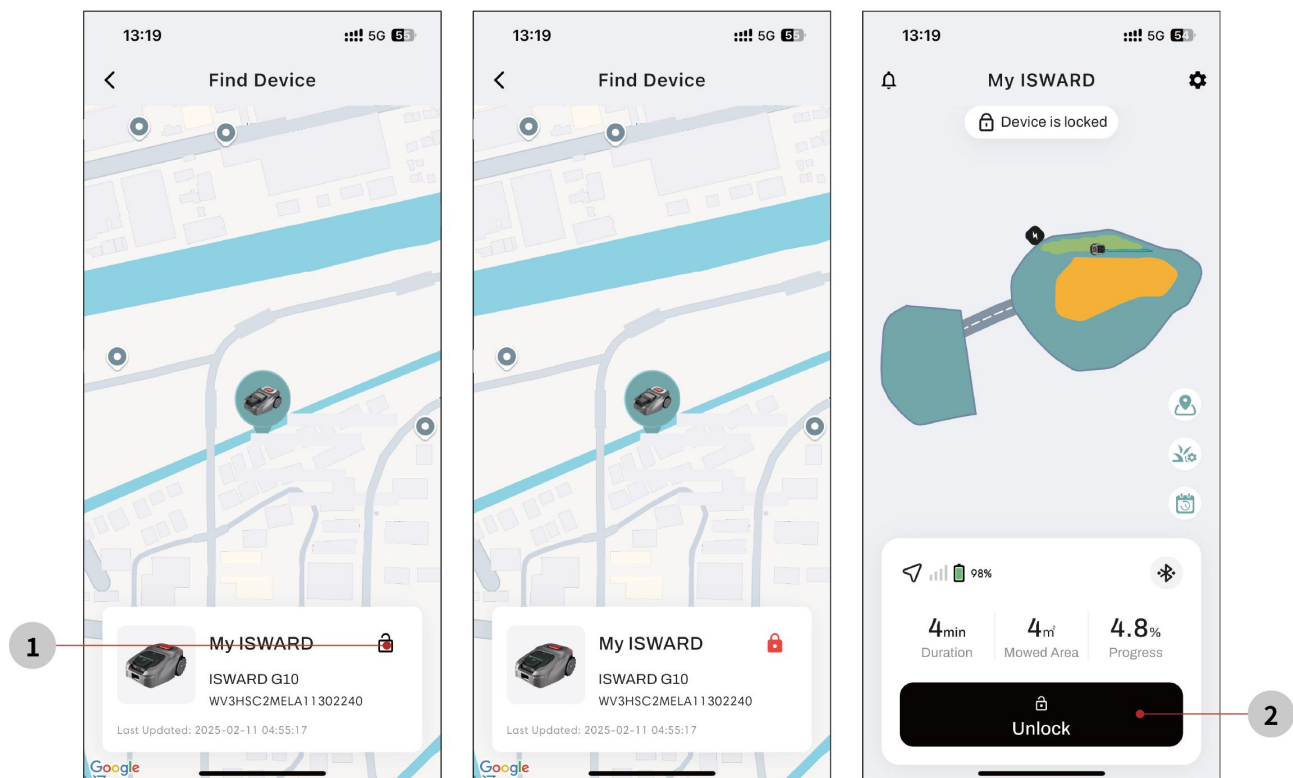
4.3.11 Mowing Records



- A. Work Date
- B. Machine Name
- C. Work Time Period
- D. Current Machine Status
- E. Expand Details

- F. Lawn Name
- G. Lawn
- H. Machine Name
- I. Record Detail
- J. Work start time / end time

Finding Device



1. **First**, click the **"Settings"** button on the homepage to open the settings page.
2. **Next**, click the **"Find Device"** button to navigate to the device location page.
 - On this page, you can view detailed location information of the device.
 - Then, click the **"Lock"** button to lock the device, preventing it from operating.
 - If you need to unlock the device, return to the homepage, click the **"Unlock"** button, and follow the on-screen instructions to complete the unlocking process.

4.3.14 Return to Charging Station

Automatic Return

1. Low Battery Detection

When the mower's battery level drops below a preset threshold (typically 15%), the mower automatically navigates back to the charging station.

- You will receive a push notification informing you that the mower is returning for charging.
- The mower will stop mowing and follow a path back to the charging station.

2. Weather Conditions

If the mower encounters heavy rain, snow, or other extreme weather conditions, it will automatically return to the charging station to avoid damage.

3. Obstacle or Error

If the mower experiences an error, such as a system malfunction or significant obstacle detection, it will stop and attempt to return to the charging station for further troubleshooting.

Manual Return

- You can manually command the mower to return to the charging station through the ISWARD App: Go to main page and select "Home".
- Or press the "HOME" button once to manually instruct the mower to return to its charging station.

Troubleshooting Return to Charging

1. Charging Station Issues

If the mower cannot return to the charging station, check for the following:

- **Obstacle blocking the charging station:** Ensure the area around the charging station is clear.
- **Charging station power:** Confirm the charging station is connected to power and working properly.
- Ensure the Charging Station is Set on the Map, if not tap on the **"Work Area"** or **"Map"** option in the app's main menu. Navigate to the section where the **charging station** is configured.

2. Poor Signal or Navigation Problemsb.

If the mower has trouble navigating back:

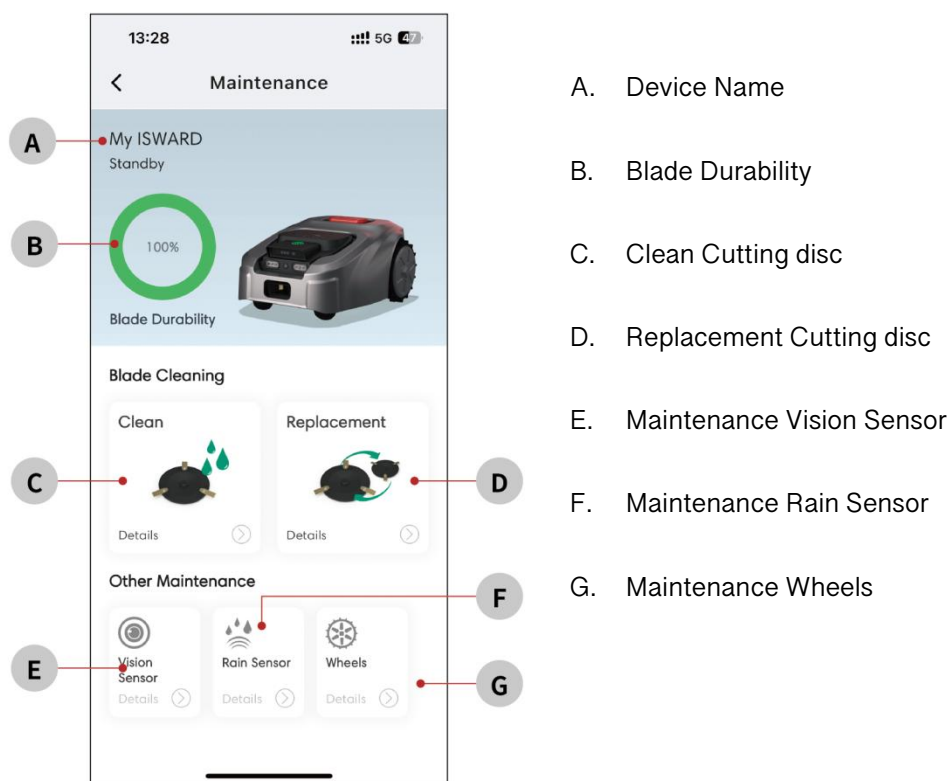
- Check the RTK signal: Ensure the RTK base station is functioning and within range.
- Reposition the mower: If the mower is too far from the station, move it closer to allow for easier navigation back.

5. Maintenance

To achieve better mowing results and increase the service life, be sure to keep the lawnmower clean and the blades in good condition. Inspection and maintenance should be carried out by an adult every week. Any damaged or worn parts should be replaced.

DO NOT perform maintenance when wearing open sandals or barefoot. Always wear long trousers and work shoes when servicing the lawnmower.

5.1 Maintenance Page Introduction



5.2 Robot Cleaning

Use a soft brush or cloth to clean the exterior of the lawnmower thoroughly. DO NOT clean with alcohol, gasoline, acetone, or other corrosive/volatile solvents. These substances may damage the appearance and internal structure of your lawnmower. For proper docking, periodically inspect and clean the charging station from debris and mud. Make sure all connecting parts of the charging station, the extension cable, and the power supply are not blocked.

A. Chassis and blade disc

If the chassis and blade disc are dirty, use a brush or a water hose to clean. DO NOT use a high-pressure washer. At the same time, make sure that the blade disc rotates freely and the blades can pivot freely.

CAUTION:

High-pressure water can leak into the sealings and damage electronic and mechanical parts.

B. Blade fender

Check the blade fender regularly. If mud, grass clippings or other objects gather on the blade fender, remove them with a dry brush or scraper.

C. Wheels

Grass on the wheels can affect how the lawnmower performs when climbing slopes. Remove mud or other objects stuck in between to ensure strong grip.

D. Front wheels (universal wheels)

Inspect and clean universal wheels regularly. If the wheels are stuck, clean off the debris and lubricate the wheels.

E. Rain sensor

Check the rain sensor regularly and make sure the rain sensor is not covered by mud, grass clippings or other objects. You can either wash it or clean it with a soft brush. After cleaning, dry the sensor area.

F. Vision sensor

Check the Vision sensor regularly and make sure the Vision sensor is not covered by mud, grass clippings or other objects. You can either wash it or clean it with a soft rag.

WARNING

- Before cleaning, make sure the lawnmower is powered off.
- When the lawnmower is upside down, it must be powered off.

5.3 Component Replacement

5.3.1 Blade Disc Replacement

If the lawnmower is used on a regular basis, it is recommended to replace the blade assembly and screws to ensure safety and better mowing results. Replace the blade assembly and the screws at the same time for a safe cutting system.

NOTE:

When a blade component replacement prompt is displayed on the APP page, you need to replace the blade assembly as prompted.

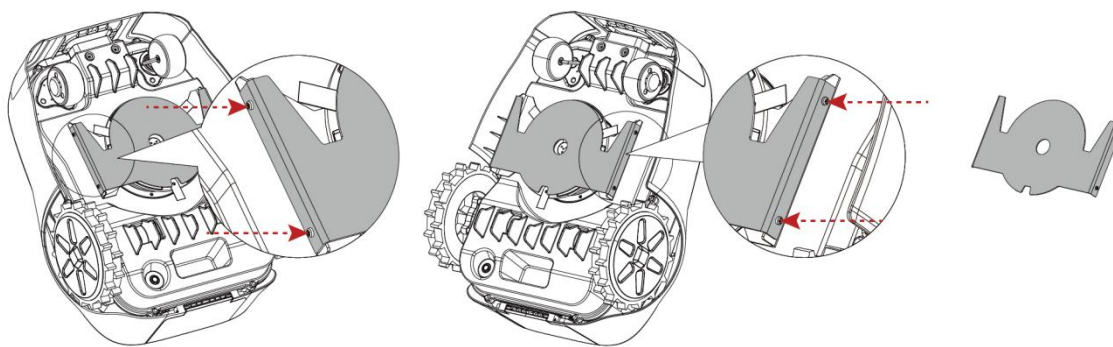
WARNING

- Wear heavy gloves when you inspect or service the blade assembly.
- Only use the right type of screws and original blade assembly as approved by iSward.
- DO NOT reuse the screws. Doing so can cause serious injury.

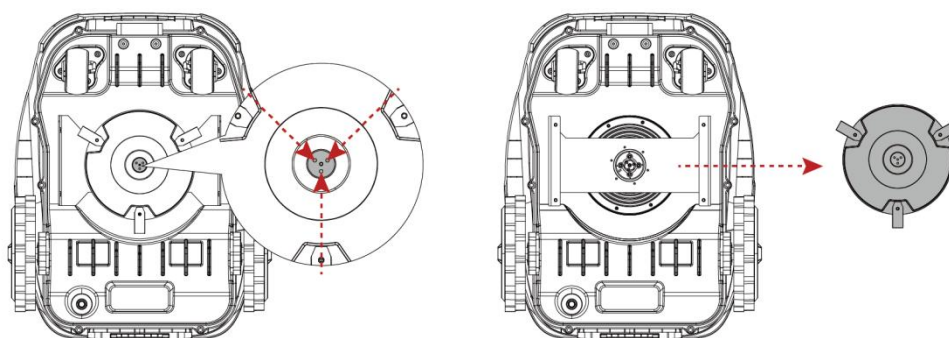
How to replace the blade assembly

1. Turn off the lawnmower.
2. To avoid scratching, place the lawnmower on a soft and clean surface in an upside-down position.
3. Use a cross-tip screwdriver to loosen the screws on both sides of the guard.

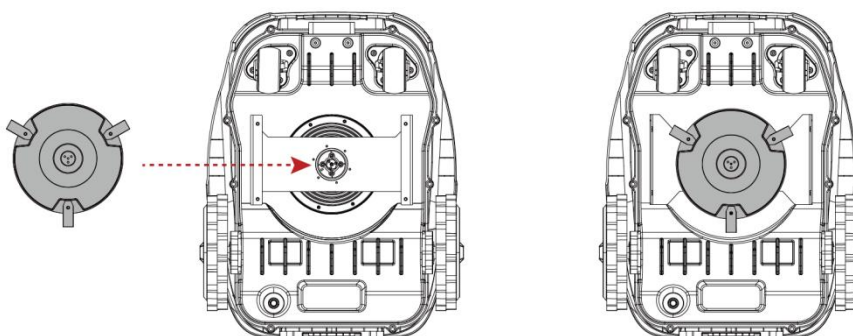
4. Set the removed shield aside.



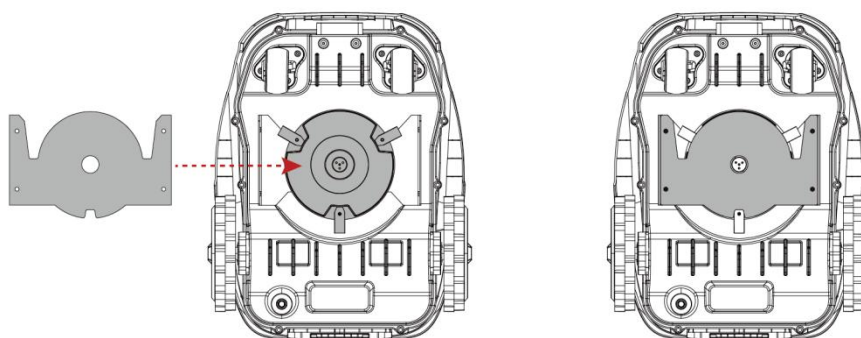
5. Use a cross-tip screwdriver to loosen the three screws.
6. Remove the screws and blade assembly.



7. Fasten the new blade assembly and screws (Torque: 1 N · m). Make sure the blade assembly can pivot freely.



8. Install the removed shield.



5.4 Battery Maintenance

Battery Lifespan

Charging Protection and Care

- Always charge the mower in a temperature range of 0° C (32° F) and 45° C (113° F) to avoid damaging the battery.
 - Do not overcharge the mower; once the battery reaches 100%, disconnect it from the charger.
 - Avoid charging in extreme temperatures, as it can damage the battery and reduce its lifespan.
- Power off the lawnmower and keep the battery fully charged before storage to avoid over-discharge and damage to the electrical components. Charge the lawnmower every 120 days for long-time storage.
- Battery damage caused by over-discharge will not be covered by the Limited Warranty.
 - DO NOT use the battery under extreme temperature conditions, i.e., above 60° C (140° F) or below -10° C (-4° F).
 - DO NOT store the battery under extreme temperature conditions, i.e., above 45° C (113° F) or below -20° C (-4° F).
 - Temperature protection will be activated at -10° C (14° F)/60° C (140° F), the battery won't be charged unless the temperature reaches 0° C (32° F) or reduces to 45° C (113° F) or below.

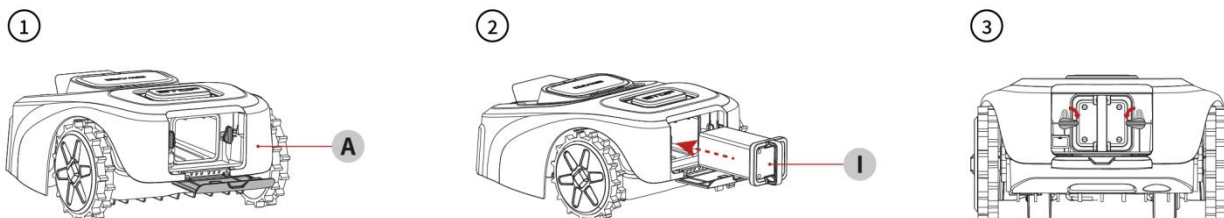
When the battery temperature is too high or too low, the lawnmower will not start mowing. You will also receive a push notification in the iSward app.

NOTE:

The battery life depends on how often the product is used and the total working hours. When the operation time is significantly shorter than usual per full charge or the lawn is not well-cut, consider replacing the battery.

How to replace the battery

1. Turn off the lawnmower.
2. Open the back cover of the lawnmower.
3. Turn the knobs on each side in the direction away from the center of the machine.
4. Take out the battery pack and replace it with the new one.
5. Pack the battery to the exact location and rotate the fixed button.
6. Close the back cover.



WARNING

- Use only the original battery pack or that of the same model as specified by iSward. Each lawnmower contains one battery pack.
- Do not use non-rechargeable batteries. For the purpose of recharging the battery, only use the detachable supply unit provided with this appliance.

- DO NOT dismantle or puncture the battery casing. Keep away from metal objects to prevent short circuit. Keep away from fire, heat and direct sunlight.
- For information about battery and electrical waste, please contact your household waste disposal service, your local or regional waste management office, or your point-of-sale.
- The battery compartment is not supposed to be opened regularly. Only open the battery compartment when you need to change the battery.
- The battery pack contains electrolytes. If the electrolyte leakage comes into contact with your skin, wash off with soap and water immediately. Get medical help in case of eye contact and immediately flush the eyes with plenty of water for at least 15 minutes without rubbing.

5.5 Store the Charging Station

To properly store and prepare your **ISWARD G Series** robotic lawn mower for the off-season or if it's not in use for an extended period, follow these steps to ensure it remains in good condition:

1. Charge the battery

Before storage, charge the battery of the robot fully to avoid over-discharge, which will cause permanent damage.

2. Remove the Robot from the Charging Station

Move the robot away from the charging station once it is fully charged to ensure it doesn't stay connected unnecessarily.

3. Power Off the Robot

Turn off the power of the robot to avoid any unnecessary energy consumption or accidental operation while in storage.

4. Clean the Robot

- Clean the robot using a damp cloth or soft brush to remove dirt, grass clippings, and debris from various parts of the robot:
 - Exterior (shell)
 - Wheels
 - Chassis
 - Visual modules (cameras and sensors)
- If necessary, you can rinse the robot, but do not invert the robot or use water to clean the bottom chassis. Water should not enter the internal components.

5. Dry the Robot

Air dry the robot after cleaning. During drying, do not invert the robot to avoid water damage.

6. Check the components subject

Check the components subject to wear such as the blades. Repair or replace them if they are in poor condition.

7. Apply Anti-Corrosion Lubricant

- Lubricate the charging contacts with an anti-corrosion lubricant to prevent oxidation over time.

- Avoid applying chemicals to other parts of the robot, especially metal contact areas, except for the connectors.

8. Remove the SIM Card (If Installed)

- If the robot has a SIM card installed, carefully remove it.
- Check the SIM card next season to ensure it is still valid and reinstall it if needed.

9. Store the Robot Indoors

- Store the robot in a cool, dry place indoors to avoid exposure to extreme temperatures and humidity that could damage the robot.
- At the same time, all wheels need to stand, preferably in their original packaging.

10. Prepare for the Next Season

- Before the next mowing season, reinstall the front bumper and safety key.
- Check the robot's condition, ensuring that it's ready for use when the season begins.

5.6 Store the Charging Station

1. Unplug the power supply from the power socket and disconnect it from the charging station.
2. **Clean the charging station** using a **damp cloth** to remove dirt, grass clippings, and debris from various parts of the charging station.
3. Tighten the protective cap to prevent damage.
4. Apply Anti-Corrosion Lubricant
 - **Lubricate the charging contacts** with an **anti-corrosion lubricant** to prevent oxidation over time.
 - Avoid applying chemicals to other parts of the robot, especially metal contact areas, except for the **connectors**.
5. Store in a cool and dry place indoors. Keep the charging station away from heat sources (such as stoves, radiators, etc.) or chemicals.

5.6.1 Before mapping

To protect your ISWARD RTK reference station during the winter season, If the Ambient Temperature is Above -20° C (-4° F) in Winte:

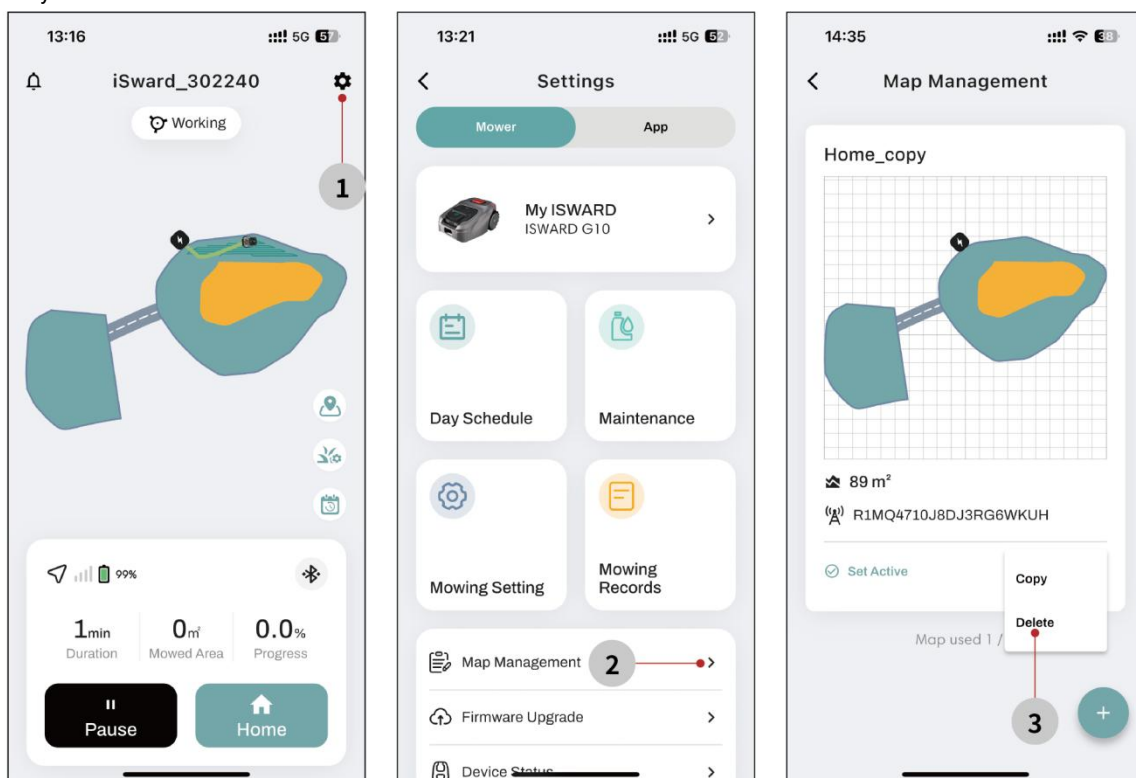
1. Unplug the RTK Reference Station: Disconnect it from the power source.
2. Secure the Cable: Twine the RTK reference station cable around the station and tighten the protective cap to prevent damage.
3. Cover the Station: Cover the RTK reference station with a plastic bag or protective cover to shield it from dust, moisture, and dirt.

Note:

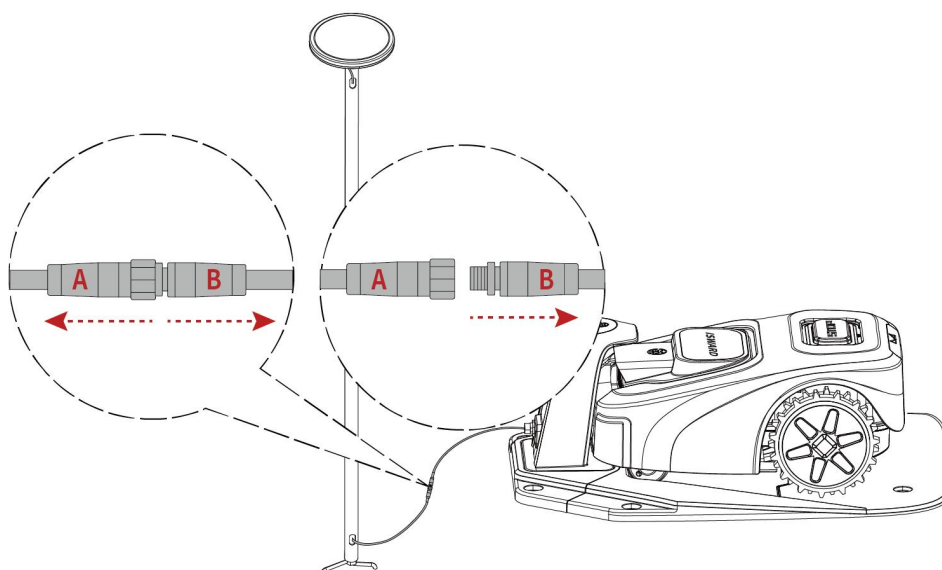
By following these steps, you can safely store the RTK reference station without needing to delete the map or remap the system for the next mowing season.

5.6.2 If Moving the RTK Base Station (Map Update Required)

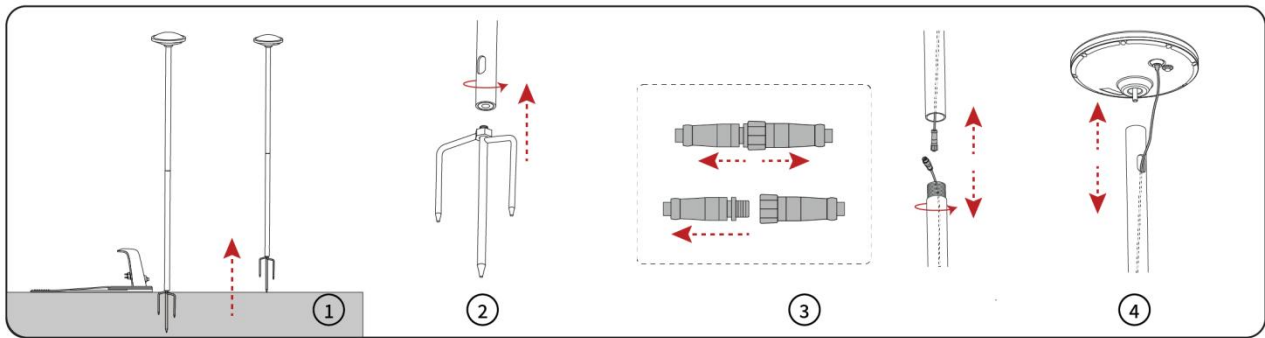
1. **Delete the Map:** Open the ISWARD App and delete the existing map to avoid any GPS signal errors caused by the extreme cold.



2. **Unplug the RTK Reference Station:** Disconnect the station from the power source.



3. **Remove the RTK Reference Station from the Mounting Pole:** Carefully take the RTK reference station off the mounting pole



4. **Remove the Antenna:** Detach the antenna to prevent damage.
5. **Clean the RTK Reference Station:** Use a cloth to gently clean the station and remove any dirt or debris.
6. **Remove the Mounting Pole:** If necessary, detach the mounting pole for safe storage.

Note:

In the next season, reinstall the RTK reference station and remap in the ISWARD app.

5.7 Store the Robot

5.7.1 If Moving the RTK Base St If Not Moving (No Need to Redraw the Map)

To protect your ISWARD RTK reference station during the winter season, If the Ambient Temperature is Above -20°C (-4°F) in Winte:

1. **Unplug the RTK Reference Station:** Disconnect it from the power source.
2. **Secure the Cable:** Twine the RTK reference station cable around the station, wrap the base station power supply connector with insulation tape to prevent damage.
3. **Cover the Station:** Cover the RTK reference station with a plastic bag or protective cover to shield it from dust, moisture, and dirt.

Note:

By following these steps, you can safely store the RTK reference station without needing to delete the map or remap the system for the next mowing season.

5.7.2 If Moving the RTK Base Station (Map Update Required)

1. **Unplug the RTK Reference Station:** Disconnect the station from the power source.

2. **Remove the RTK Reference Station from the Mounting Pole:** Carefully take the RTK reference station off the mounting pole.
3. **Clean the RTK Reference Station:** Use a **cloth** to gently clean the station and remove any dirt or debris.
4. **Remove the Mounting Pole:** If necessary, detach the mounting pole for safe storage.

Note:

In the next season, reinstall the RTK reference station and remap in the ISWARD app.

To properly store and prepare your ISWARD G Series robotic lawn mower for the off-season or if it's not in use for an extended period, follow these steps to ensure it remains in good condition:

1. Remove the Robot from the Charging Station

Move the robot away from the charging station once it is fully charged to ensure it doesn't stay connected unnecessarily.

2. Power Off the Robot

Turn off the power of the robot to avoid any unnecessary energy consumption or accidental operation while in storage.

3. Clean the Robot

- Clean the robot using a damp cloth or soft brush to remove dirt, grass clippings, and debris from various parts of the robot:
 - Exterior (shell)
 - Wheels
 - Chassis
 - Visual modules (cameras and sensors)
- If necessary, you can rinse the robot, but do not invert the robot or use water to clean the bottom chassis. Water should not enter the internal components.
- (Image: Cleaning the robot with a soft brush)

4. Dry the Robot

Air dry the robot after cleaning. During drying, do not invert the robot to avoid water damage.

5. Apply Anti-Corrosion Lubricant

- Lubricate the charging contacts with an anti-corrosion lubricant to prevent oxidation over time.
- Avoid applying chemicals to other parts of the robot, especially metal contact areas, except for the connectors.

6. Remove the Front Bumper

- Detach the front bumper from the robot.
- Use a brush to clean the connector slots where the bumper attaches to ensure a good fit when reinstalled.

7. Clean the Front Bumper

- Use a brush to thoroughly clean the front bumper and remove any dirt or debris.

8. Remove the Safety Key

- Take out the safety key to ensure the robot remains powered off and cannot be accidentally turned

on.

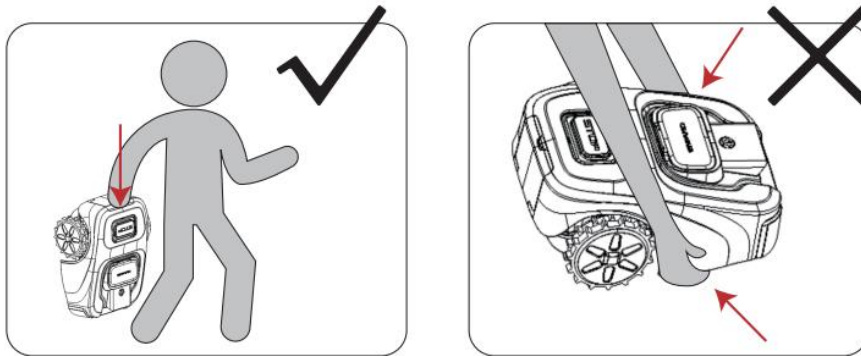
9. Remove the SIM Card (If Installed)

- If the robot has a SIM card installed, carefully remove it.

Check the SIM card next season to ensure it is still valid and reinstall it if needed.

10. Store the Robot Indoors

- Store the robot in a cool, dry place indoors to avoid exposure to extreme temperatures and humidity that could damage the robot.



11. Prepare for the Next Season

- Before the next mowing season, reinstall the front bumper and safety key.
- Check the robot's condition, ensuring that it's ready for use when the season begins.

5.8 Power Supply

- **Disconnect the power supply:**
 - Before clearing a blockage;
 - Before checking, cleaning or working on the machine;
 - After striking a foreign object to inspect the machine for damage.
- **Regularly examine the cord, plug, enclosure and other parts. If any damage or signs of aging are found, stop using immediately.**

WARNING

- DO NOT operate a damaged power supply. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard. If the extension cable is defective, please replace it with the long cable as approved by iSward.
- DO NOT connect a damaged cord to the power supply or touch a damaged cord or extension cable before it is disconnected from the power socket. Damaged cords can lead to contact with live parts.
- DO NOT use the power supply with any other product or battery, otherwise there will be risks of personal injury, fire or electrical shock. Product safety cannot be guaranteed with other than original batteries.
- DO NOT charge when the battery is leaking.
- Keep the extension cable away from moving hazardous parts to avoid damage to the cords which can lead to contact with live parts.

5.9 Transportation

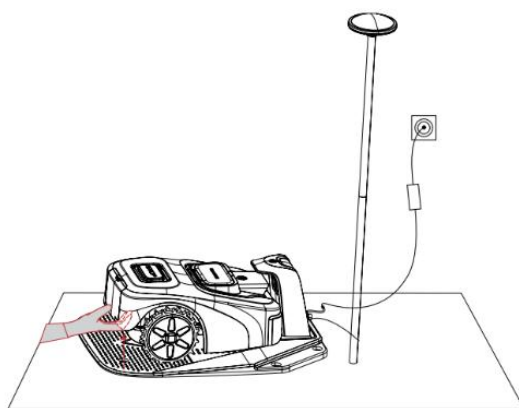
To protect the lawnmower, use the original packaging for long-distance transportation. Before lifting, moving, or transporting the product, turn it off. Handle with care and avoid violent force, such as throwing and heavy pressure. Never pick up or carry the lawnmower while the motor is running.

How to move or lift properly

Carry the lawnmower by the handle, with the blade disc facing away from your body.

CAUTION:

To avoid damage to the lawnmower and/or the charging station, DO NOT lift the lawnmower by the handle when it's parked in the charging station. Remove the lawnmower from the charging station before lifting the lawnmower.



5.10 Recycling and End-of-life Disposal

DO NOT treat this product as domestic waste. For recycling information, contact your domestic waste service, your municipality, or point of sale.

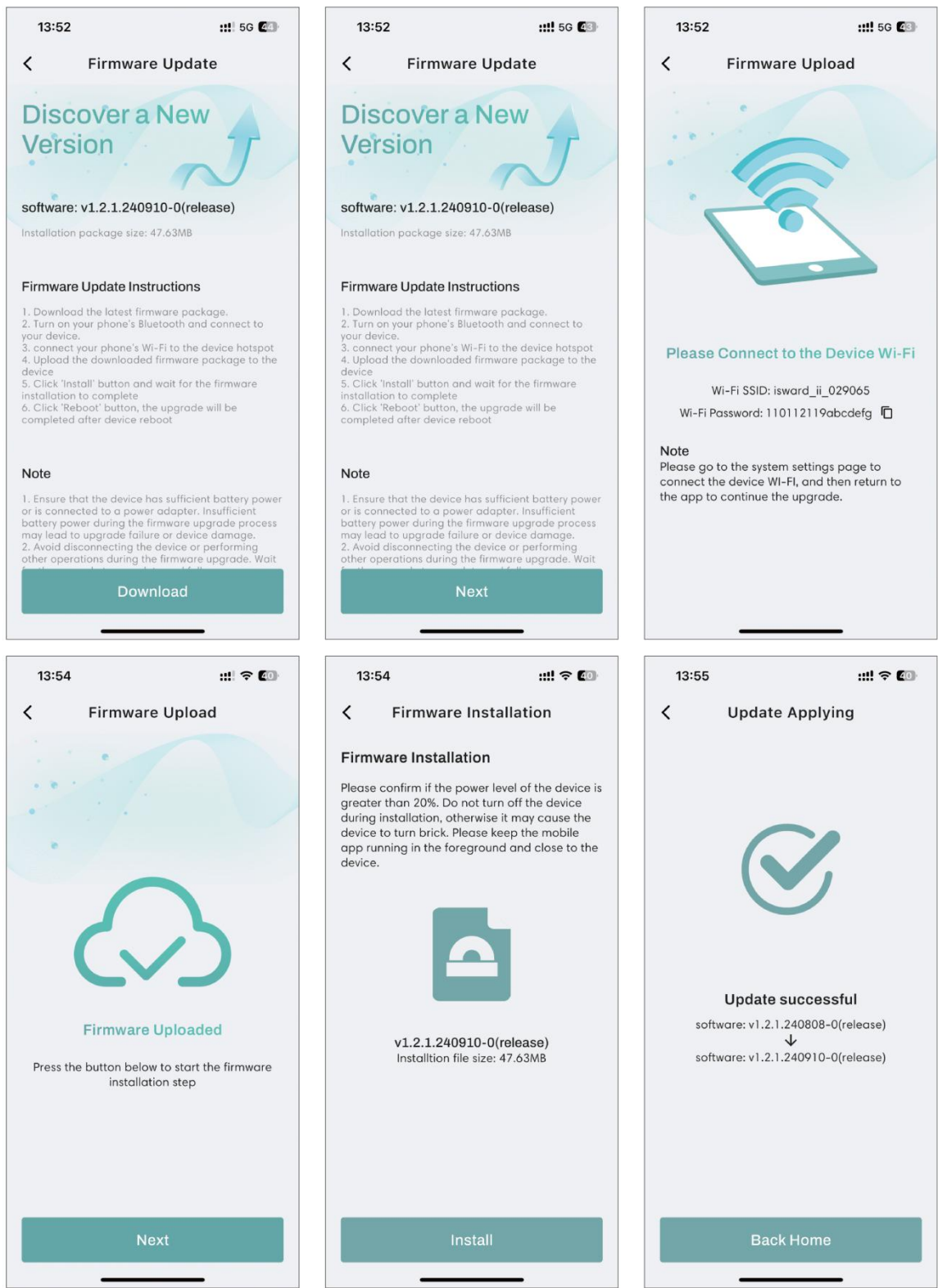
WARNING:

DO NOT dispose of this product in a landfill, by incineration, or by mixing with household trash. Danger or serious injury can occur because of the electrical components.

5.11 Others

- Keep all screws, nuts and bolts tight to ensure normal and safe operation.
- To ensure good grip of the tread, keep the drive wheels (rear wheels) clean by removing any mud with a brush.
- The removal of the housing must be opened and resealed by authorized service technicians ONLY. Servicing by yourself can void the Limited Warranty.

5.12 Device Software Updates



Follow the prompts to perform firmware upgrade.

6. Frequently Asked Questions and Troubleshooting

6.1. Q&A

The following chart offers a guide to help identify an issue, and if possible, repair by yourself. When the problem cannot be solved, consult an authorized dealer or repairer.

Issue	Possible Causes	Solutions
Abnormal vibration when the lawnmower is operating	A damaged blade disc	Check the blades and the blade disc. Replace if damaged or worn. The blade disc has to be replaced by an authorized technician.
Delayed lawnmower movement when laying the boundary via the app.	Unstable Bluetooth signal	Stay close to the lawnmower (within 5 meters) when laying the boundary.
The lawnmower cannot get accurate GPS location persistently	<ol style="list-style-type: none"> 1. The RTK signal beacon on the lawnmower is covered or blocked 2. The RTK signal beacon or charging station is covered or blocked 3. The firmware version is too old 	<p>Make sure the lawnmower is not covered by anything.</p> <p>Remove anything that is covering or blocking the charging station, or relocate the RTK signal beacon to a place with a good signal.</p> <p>Update to the latest firmware</p>
Shorter working hours per full charge	<ol style="list-style-type: none"> 1. Aged battery pack 2. Lawn condition (long grass, changed garden layout, etc.) 	<p>Replace the battery pack.</p> <p>This is normal.</p>
It takes less time to fully charge the lawnmower	Aged battery pack	Replace the battery pack.
The lawnmower does not charge or it turns off automatically in the charging station	<ol style="list-style-type: none"> 1. High/low battery temperature 2. The charging station is not connected to the power socket 3. The contact strip is unclean 	<p>When the lawnmower temperature returns normal, try charging again.</p> <p>Connect the charging station to the power supply and plug it into the power socket.</p> <p>Clean the contact strip.</p>
The lawnmower does not work according to the	1. The STOP button is pressed down or jammed and the lawnmower cannot start	<p>Make sure the STOP button is completely released.</p> <p>Turn off the lawnmower and check if there is any foreign object stuck in the STOP button. If yes,</p>

schedule	<p>automatically</p> <p>2. Low battery</p> <p>3. Water on the rain sensor</p>	<p>remove the object and try mowing again.</p> <p>Charge the lawnmower battery full.</p> <p>If the rain sensor is triggered, the lawnmower cannot start working. Wait for the water to dry up.</p>
The lawnmower does not go back to the charging station	<p>1. The RTK signal beacon is blocked</p> <p>2. The charging station is covered or blocked by obstacles</p> <p>3. Items are blocking the upper surface of the lawnmower so that the built-in RTK signal beacon cannot receive the signal well</p>	<p>Remove all obstacles covering, blocking or surrounding the charging station and the beacon.</p>
The lawnmower is stuck	<p>1. The wheels lost traction because of mud or grass</p> <p>2. Soft ground such as sand</p> <p>3. Deep ditch</p>	<p>Remove anything that's stuck on the wheels.</p> <p>Set soft areas as off-limit islands when necessary.</p> <p>Fill in the gap and keep the lawn surface level and flat.</p>
The lawnmower goes outside the boundary	<p>1. The wheels lost traction because of mud or grass</p> <p>2. The boundary is set on a slope</p> <p>3. Weak satellite signal reception</p>	<p>Remove anything that's stuck on the wheels.</p> <p>Change the location of the boundary.</p> <p>Try to install the beacon in a relatively open space to allow the beacon to have a clear view of the sky, where at least 110° of the sky is unobstructed.</p>
The lawnmower does not move in a regular pattern in certain areas	<p>There are obstacles in the area</p>	<p>The lawnmower will automatically adjust its moving pattern and resumes to normal.</p>
Uneven or patchy mowing	<p>1. The preset mowing time is insufficient</p> <p>2. The blades are blunt</p> <p>3. The grass is too high</p> <p>4. The blades cannot pivot normally</p>	<p>Adjust the mowing time so that it matches the mowing area and the lawnmower has enough time to finish the task.</p> <p>Replace the blades.</p> <p>Set the cutting height to a higher level and then lower to the desired height gradually.</p> <p>4. Clean the blades.</p>
The lawnmower cannot power on	<p>The battery is over-discharged</p>	<p>Place the lawnmower in the charging station, fully charge it, and restart the lawnmower.</p>
The lawnmower mows the lawn by itself without any manual operation	<p>1. Manual mowing mode (start mowing either via the app or by pressing the lawnmower buttons)</p> <p>2. Mowing schedule</p> <p>3. Rain sensor</p>	<p>If you started manual mowing mode before, the lawnmower will keep working until 100% of the mowing task is completed. When the battery level is low, the lawnmower will return to the charging station. When the battery is charged full, the lawnmower will resume the previous mowing task automatically. When the mowing task is completed (100%), the lawnmower will exit the manual mowing mode.</p>

		<p>If you have set a mowing schedule (and you didn't start manual mowing before), the lawnmower will automatically start the mowing task according to the schedule. When the battery level is low, the lawnmower will return to the charging station. When the battery is charged full, the lawnmower will resume the previous mowing task automatically until the mowing task is completed (100%).</p> <p>When the rain sensor is triggered, the lawnmower will stop the task and return to the charging station. After the water on the rain sensor is dry, it will automatically continue until the mowing task is finished. However, if it's past the scheduled time, the lawnmower will not resume mowing.</p>
Certain areas are not cut	<p>Inaccurate positioning</p> <p>Obstacle avoidance</p> <p>Tall grass</p>	<p>The lawnmower's moving path depends on satellite positioning, occasionally inaccurate positioning may lead to missed cuts, and the missed area will be covered after a few more cuts.</p> <p>If an obstacle is encountered during mowing, the lawnmower will avoid the obstacle, which can result in certain areas not being cut. This is normal and a new feature will be added to make the lawnmower cut the missed area with obstacles again. 3. If the grass is higher than 20cm, the ultrasonic sensor will be triggered and the lawnmower will avoid areas with high grass.</p>
The lawnmower does not cut the grass, or the blades stop rotating during the mowing process	<p>Cutting motor over-current protection</p> <p>Foreign objects</p> <p>Obstacle avoidance</p> <p>The lawnmower does not cut when going back to the charging station, or when going to the starting point of the mowing session. This is normal and the lawnmower will only cut on the planned cutting path.</p>	<p>When the grass is too thick, the cutting motor will automatically enter self-protection and stop rotating when the current is too high. At this time, it is recommended to increase the mowing height, or use other mowing tools to trim the lawn to 6cm or lower first.</p> <p>Please confirm whether there is any foreign object stuck in blade disc or blades, if any, please clean it in time.</p> <p>When the lawnmower is avoiding an obstacle, the bump sensor will shut down the blades temporarily. When this protection mechanism is finished, the blades will continue rotating.</p> <p>Normal</p>

6.2. Error Codes and Troubleshooting Methods

When there is an abnormality, an error code is shown in the app and the lawnmower display. Below is a list of the error codes, what they mean and what to do:

Error Code	Meaning	Solution
1001	Mowing motor stall protection	For your safety, power off the lawnmower first. 1. Check if the blade disc is stuck, remove the foreign objects. 2. Check if the grass is too thick and dense, cut your lawn to a height of no more than 6 cm. Restart the lawnmower and resume mowing. If the error persists, contact after-sales service.
1002	Cutting height motor stall protection	For your safety, power off the lawnmower first. Check if there are foreign objects above the blade fender, such as grass clippings, stones, etc., and clean it up. Restart the lawnmower, and adjust the cutting height to 6cm for testing. If the error persists, contact after-sales service.
2001	Battery temperature is too high	Place the lawnmower in the shade (operating temperature: -10~60 degrees Celsius), waiting half an hour. If the error persists, contact after-sales service. Do not disassemble the battery pack and make sure to use a genuine battery.
2002	Battery temperature is too low	Place the lawnmower in a warm environment (operating temperature: -10~60 degrees Celsius), waiting half an hour. If the error persists, contact after-sales service. Do not disassemble the battery pack and make sure to use a genuine battery.
2003	The battery is too low	Please move the lawnmower to the charging station to charge. Let the lawnmower charge for a while, then restart the lawnmower. If the error persists, contact after-sales service.
3001	Sensor system self-check failure	Please restart the lawnmower. If the error persists, contact after-sales service.
3002	IMU bias error	Please keep the lawnmower level and still, restart the lawnmower. If the error persists, contact after-sales service.
3003	Bluetooth link error	Please restart the lawnmower. If the error persists, contact after-sales service.
3004	IoT link error	
3005	Unable to connect the RTK signal beacon	1) Check whether the light at the lower end of the beacon blinks slowly. 2) If the lights are working, remove anything that is covering or blocking the RTK signal beacon. 3) Please waiting 30 minutes, when the robot is connected to the RTK signal beacon, the robot will automatically start cutting the grass. If the error persists, contact after-sales service.
3006	Lawn data loading failure	Please restart the lawnmower or rebuild the map. If the error persists, contact after-sales service.
3007	Lawnmower can't get out of the charging station	Please restart the lawnmower. If the error persists, contact after-sales service.
3008	Software node error	

4001	Lawnmower is outside the boundary	Please place the lawnmower on an open and flat surface within the boundary, and press your PIN code on the lawnmower, then press MOW+OK to resume mowing. If it fails, restart the lawnmower and then put it in the charging station. If the error persists in the same area, set the area as an off-limit island.
4002	Lawnmower has turned over	Please place it in the proper position and put it back in the boundary or charging station. Then press MOW+OK to resume mowing. Please set the area where the lawnmower turns over frequently as an off-limit island.
4003	Lawnmower cannot return to the charging station	Please confirm no obstacles in the path and the charging station is installed on a flat surface. Please restart the lawnmower and press your PIN code on the lawnmower, then HOME+OK to return. If the error persists, check if the charging station and the beacon have been moved since the previous mapping and rebuild the map. If it still cannot be solved, contact the after-sales service.
4004	Bumper sensors triggered	Please remove the obstacles or tap the sensor gently to release it, press your PIN code on the lawnmower and press MOW+OK to resume mowing. If it fails, restart the lawnmower and then put it in the charging station. If the error persists, contact after-sales service.
4005	Lawnmower is lifted	Please place the lawnmower on a flat surface and check if the front wheels are stuck, then press your PIN code and press MOW+OK to resume mowing. If it fails, restart the lawnmower and then put it in the charging station. If this happens frequently, contact after-sales service.
4006	Lawnmower gets stuck in obstacles	Please confirm no obstacles in the path and the charging station is installed on a flat surface. Press your PIN code on the lawnmower, then HOME+OK to return. If the error persists, check if the charging station and the beacon have been moved since the previous mapping and rebuild the map. If it still cannot be solved, contact the after-sales service.
4007	Lawnmower is shaking.	Please turn off the lawnmower and place the lawnmower on a flat surface and check to see if the cutter is stuck, then press your PIN code and press MOW+OK to resume mowing. If it fails, restart the lawnmower. If this happens frequently, contact after-sales service.
4008	Rain sensors triggered	After the water on the rain sensor is dry, the lawnmower will automatically continue until the mowing task is finished. However, if it's past the scheduled time, the lawnmower will not resume mowing.
4009	Control Board error	Please restart the lawnmower. If it still cannot be solved, contact the after-sales service.
4010	Display error	Please restart the lawnmower. If it still cannot be solved, contact the after-sales service.
4011	STOP button is pressed	Please press your PIN code on the lawnmower and press MOW+OK to resume mowing. If the error persists, contact after-sales service.
5001	Vision sensor system error	A system error occurred in Vision sensor. Please restart the lawnmower. If the error persists, contact after-sales service.
5002	Stained camera	Please clean the camera lens, then press your PIN code on the lawnmower and press MOW+OK to resume mowing. If the error persists, contact after-sales service.

5003	Vision sensor disconnected	Please check if the Vision sensor is disconnected from the lawnmower. If you intended to do so, please disable the Vision sensor in APP setting. If the error persists, contact after-sales service.
5004	Emergency stop module fault	Please restart the lawnmower. If it still cannot be solved, contact the after-sales service.
5005	Bumper sensors & Lift sensors fault	Please restart the lawnmower. If it still cannot be solved, contact the after-sales service.
5006	Drive motor fault	Please restart the lawnmower. If it still cannot be solved, contact the after-sales service.
5007	Driver board communication fault	Please restart the lawnmower. If it still cannot be solved, contact the after-sales service.
5008	Sensor board communication fault	Please restart the lawnmower. If it still cannot be solved, contact the after-sales service.
5009	GPS module fault	Please restart the lawnmower. If it still cannot be solved, contact the after-sales service.
500A	Radio module fault	Please restart the lawnmower. If it still cannot be solved, contact the after-sales service.
FFFF	Unknown	Please restart the lawnmower. If it still cannot be solved, contact the after-sales service.

7. After-Sales Service and Support

7.1. Warranty Policy

Limited Warranty and Arbitration Agreement (EMEA)

NOTICE:

PLEASE READ THIS LIMITED WARRANTY AND ARBITRATION AGREEMENT AND KEEP THIS AGREEMENT FOR FUTURE REFERENCE. THIS AGREEMENT CONTAINS LIMITED WARRANTY CLAUSES FOR CONSUMERS IN EUROPE, MIDDLE EAST AND AFRICA ("EMEA") AND ARBITRATION CLAUSES WITH RESPECT TO ISWARD ("PRODUCT") AND ANY AND ALL TRANSACTION AND CLAIM RELATED TO AND/OR ARISING OUT OF THE PRODUCT.

THIS IS A BINDING LEGAL AGREEMENT ("AGREEMENT") BETWEEN YOU (EITHER AN INDIVIDUAL OR ENTITY) AND THE MANUFACTURER ("SUNRAY"), ISWARD, AND THEIR AFFILIATES (INCLUDING BUT NOT LIMITED TO THEIR PARENT COMPANY, SUBSIDIARY, AFFILIATED COMPANIES, PREDECESSOR, SUBSEQUENT COMPANY, ADMINISTRATORS, SUCCESSORS, ASSIGNS, OFFICERS, DIRECTORS, MANAGERS, EMPLOYEES, MEMBERS, SHAREHOLDERS, AND AGENTS, ATTORNEYS, INSURERS OR REINSURERS) (COLLECTIVELY "ISWARD PARTIES"), ISWARD DEALERS (AS DEFINED BELOW) AND THEIR AFFILIATES (COLLECTIVELY "ISWARD DEALERS").

PURCHASING THE PRODUCT, OPENING THE PRODUCT PACKAGING, USING THE PRODUCT, RETAINING THE PRODUCT, EXPLOITING THE BENEFITS OF THIS AGREEMENT, OR ELECTRONIC ACCEPTANCE OF THIS AGREEMENT SHALL CONSTITUTE ACCEPTANCE OF THIS AGREEMENT. IN AN EVENT YOU, AS A PARENT(S) OR LEGAL GUARDIAN(S), PURCHASE THIS PRODUCT ON BEHALF OF OR FOR YOUR CHILDREN, YOU HEREBY CONSENT TO AND APPROVE IN ALL RESPECTS THE TERMS AND CONDITIONS OF THE AGREEMENT AND AGREE THAT BOTH YOU AND YOUR CHILDREN SHALL BE BOUND BY THIS AGREEMENT. YOU ACKNOWLEDGE AND AGREE THAT YOU RECEIVE SUFFICIENT NOTICE OF THIS AGREEMENT AND YOU AGREE TO THIS AGREEMENT.

7.1.1 Limited Warranty

This Limited Warranty covers only defects of any material or quality of the Product and components when the Product and components thereof are being used under normal and ordinary conditions. In the event that a defect covered by this Limited Warranty occurs, iSward and/or other iSward Parties in its sole discretion will repair or replace the defective Product or components thereof in accordance with this Limited Warranty. The applicable Limited Warranty Period for the Limited Warranty commences on the date of the original purchase of the Product from either of iSward, iSward's authorized reseller, iSward's authorized distributor, or an authorized Dealer (each a "iSward Dealer" or collectively the "iSward Dealers").

Product covered by this warranty	Limited Warranty Period
G10	2 years
G20	2 years
G30	3 years
Battery pack and power adaptors	1 years

Blade assembly is seen as disposable and are not covered by this warranty.

THIS LIMITED WARRANTY HEREIN IS THE ONLY EXPRESS WARRANTY APPLICABLE TO PRODUCT AND ITS COMPONENT PARTS, ACCESSORIES, AND SERVICE REPAIR. ISWARD AND ISWARD PARTIES DISCLAIM ALL OTHER EXPRESS WARRANTIES. ISWARD AND OTHER ISWARD PARTIES LIMIT THE DURATION AND REMEDIES OF ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION TO THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHETHER ARISING BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE, TO THE DURATION OF THIS EXPRESS LIMITED WARRANTY.

THIS LIMITED WARRANTY DESCRIBES THE SERVICE AVAILABLE TO YOU IN THE EVENT YOUR PRODUCT REQUIRES WARRANTY SERVICE. THIS LIMITED WARRANTY IS AN ADDITIONAL WARRANTY, THAT DOES NOT IN ANY WAY AFFECT OR LIMIT THE STATUTORY RIGHTS YOU MAY HAVE AS A CONSUMER, FOR EXAMPLE, WITH RESPECT TO CONFORMITY, AND YOU MAY HAVE ADDITIONAL PROTECTIONS UNDER YOUR LOCAL LAWS.

7.1.2 Limited Warranty Service Process

iSward's online services are available at <https://www.isward-tech.com>. During your use of the Product, you believe the Product or its component is defective and/or does not work correctly. PLEASE IMMEDIATELY STOP USING THE PRODUCT, AND STORE THE PRODUCT PROPERLY. YOUR CONTINUED USE OF THE PRODUCT UNDER SUCH CIRCUMSTANCE MAY CAUSE SEVERE BODILY INJURY OR EVEN DEATH TO YOU OR THE OTHERS AND/OR CAUSE PROPERTY DAMAGES. Thereafter, please immediately contact iSward at service@isward-tech.com. iSward's technical support personnel are available to assist you online or over the phone in diagnosing the defect, and if any, and providing further instructions. In the event the warranty services are required, please prepare for the following materials, including (i) proof of the original purchase of the Product from iSward Dealers, (ii) the Product's

serial number, and (iii) a description of the defect if applicable. Upon the verification of your eligibility for the Limited Warranty protection and/or services, you should provide your name, email address, mailing address, and contact phone number to us, we will guide you to get our service.

If you want to return the defective unit to service, you shall be responsible for the cost of shipping and risk of loss and damage that may occur during the shipment from you to iSward and (ii) from iSward to you. You must include your defective Product or component within the original or iSward-approved packaging, which will be provided at your cost, for shipment of the Product to iSward. You shall defend, indemnify, and hold iSward harmless any loss and/or damages that may be caused by your improper packaging or shipment of the Product or component to iSward.

An authorized service provider or iSward Dealer will inspect your returned Product. If iSward reasonably determines that the problem is not covered by the Limited Warranty, iSward will notify you and inform you of service or replacement alternatives that are available to you on a fee basis, or iSward will return your Product to you unrepairs, and in such instance, you will be responsible for the cost of shipping and insurance for shipment of your Product from iSward to you. In an event that any services are not covered by the limited warranty and you reject a paid service recommended by iSward Parties and/or iSward Dealer, you understand and acknowledge that failure to repair and/or services the Product may increase the risk of fall and/or Product failure which may result in severe property damages, severe bodily injury or death, and you agree that this is your informed consent to take such risk.

For a return eligible for the warranty protection and/or services, iSward will serve defective Products with new or reconditioned parts of the same or similar style at no cost to you for the service. Parts replaced by iSward will be retained by and become the property of iSward. In such a situation, iSward will pay reasonable return shipping charges for the return of the Product to you.

7.1.3 Limited Warranty Eligibility

- Your service request must be received by iSward within the Limited Warranty Period as described above, and iSward must receive your Product in accordance with the Limited Warranty Service Process defined above.
- Your Product must be purchased from an authorized iSward Dealer.
- You must provide the original purchase receipt.
- Your Product must have serial number legible, unobscured, untampered, and unmodified.
- All tamper-resistant seals must be intact, in place, and unmodified.

7.1.4 Limited Warranty Exclusions

This Limited Warranty describes the service available to you if your product requires warranty service, and you may have additional protections under your local laws. This Limited Warranty does not cover and excludes damage to your product or any component thereof caused by:

- Abuse, misuse, recklessness, negligence, or commercial use.
- Improper charging, storage, maintenance, or operation of the Product not in compliance with instructions or limitations as provided in the user materials.

- Use of the Product not in compliance with applicable laws and regulations.
- Use of the Product by persons with inadequate experience.
- Accident, collision, fire damage, water damage, chemical damage, use of the product outside of the product's working temperature range, high-pressure water spray, earthquake, dropping.
- Modifications to mechanical parts, modification of electronic parts, or modifications to software embedded in the Product.
- Service, repair, and maintenance by unauthorized providers.
- Cosmetic damages.
- Use of the Product with third party product, component, or accessory.
- The normal deterioration of wear and tear parts.
- Use of the Product with overdue wear and tear parts.

7.1.5 LIABILITY DISCLAIMER AND LIMITATION

7.1.5.1 ISWARD PARTIES DO NOT ASSUME OR AUTHORIZE ANYONE TO ASSUME ON ITS BEHALF, ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH THE PRODUCT, ITS COMPONENT PARTS, ACCESSORIES, SERVICE REPAIR, OR THIS LIMITED WARRANTY.

7.1.5.2 ISWARD PARTIES AND ISWARD DEALERS ARE NOT RESPONSIBLE FOR ANY LOSS OF USE OF A PRODUCT, ITS COMPONENT PARTS, ACCESSORIES, OR FOR ANY INCONVENIENCE OR OTHER LOSS OR DAMAGE WHICH MIGHT BE CAUSED FROM ANY DEFECT IN A PRODUCT, ITS COMPONENT PARTS, ACCESSORIES, SERVICE REPAIR, OR FOR ANY OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES YOU MAY HAVE AS A RESULT OF ANY DEFECT IN A PRODUCT, ITS COMPONENT PARTS, ACCESSORIES, OR SERVICE REPAIR. SOME COUNTRIES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU TO THE EXTENT THAT IT IS DISALLOWED BY APPLICABLE LAW.

7.1.5.3 IN NO EVENT, ISWARD PARTIES AND ISWARD DEALERS' TOTAL AND AGGREGATE LIABILITY FOR ALL CLAIMS UNDER ANY AND ALL APPLICABLE LAW OR THEORY, JOINTLY OR SEVERALLY, ARISING OUT OF OR RELATED TO THE PURCHASE OF THE PRODUCT, USE OF THE PRODUCT, BREACH OF CONTRACT, TORTS (INCLUDING NEGLIGENCE) OR OTHERWISE, EXCEEDS THE DUTY TO REPAIR OR REPLACE ANY DEFECTIVE PRODUCT, FURTHER SUBJECT TO ISWARD'S SOLE AND EXCLUSIVE DISCRETION. IN NO EVENT SHALL BE ISWARD PARTIES AND ISWARD DEALERS BE LIABLE TO ANY PERSON FOR CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, PUNITIVE OR ENHANCED DAMAGES ARISING OUT OF, OR RELATING TO, AND/OR IN CONNECTION WITH THE PURCHASE OF THE PRODUCT, ANY BREACH OF THIS AGREEMENT OR MANUFACTURER'S DUTIES REGARDLESS OF (A) WHETHER SUCH DAMAGES WERE FORESEEABLE, (B) WHETHER OR NOT ISWARD OR OTHER ISWARD PARTIES WERE ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND (C) THE LEGAL OR EQUITABLE THEORY (CONTRACT, TORT OR OTHERWISE) UPON WHICH THE CLAIM IS BASED UNLESS SUCH LIMITATIONS AND EXCLUSIONS ARE PROHIBITED BY APPLICABLE LAW. THE FOREGOING LIMITATIONS OR EXCLUSIONS APPLY EVEN IF AN AGGRIEVED CUSTOMER OR ANY OTHER PERSON'S (WHO MIGHT HAVE RIGHT OR CLAIM UNDER THIS AGREEMENT BY OPERATION OF LAW OR EQUITY) REMEDIES UNDER THIS AGREEMENT FAIL THEIR ESSENTIAL PURPOSE. IN THE EVENT SOME COUNTRIES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF CERTAIN OR ALL OF THE FOREGOING DAMAGES, SO TO THE EXTENT THAT SUCH LIMITATIONS OR EXCLUSIONS

ARE NOT ALLOWED BY LAW, THEY MAY NOT APPLY TO YOU. SOME COUNTRIES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO TO THE EXTENT THAT SUCH LIMITATIONS OR EXCLUSIONS ARE NOT ALLOWED BY LAW, THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

7.1.5.4 To the extent permitted by applicable law, ISWARD PARTIES and ISWARD DEALERS hereby DISCLAIM any liability and thereby shall not be responsible for any damages, including but not limited to death, bodily injury, or damages to property, arising out of or related to any conduct (including misconduct), action, inaction, act (including failure to act), omission or negligence by any authorized or unauthorized dealer, distributor, wholesaler, retailer, service provider or third party that involves into the distribution of Product or the services thereto. To the extent permitted by applicable law, the explicit representations and warranties, if any, provided herein, shall be the only warranties and representations made by ISWARD PARTIES to YOU, any consumer, and/or end-user. and ISWARD PARTIES shall not be responsible for any other warranties and/or representations that may be given and/or provided by another person unless ISWARD PARTIES have in a written form explicitly authorized such additional warranty and/or representation to be given to consumer or end-use.

7.2. Compliance

EC- Declaration of Conformity

We herewith declare

Shanghai Xiaojia Data & Technology Co., LTD

2F, No. 979 Yunhan Road, Lingang New Zone, China (Shanghai) Pilot Free Trade Zone, 201306

That the following Appliance complies with the appropriate basic safety and health requirements of the EC Directives (see item 4) based on its design and type, as brought into circulation by us.

This declaration relates exclusively to the machinery in the state in which it was placed on the market, and excludes components which are added and/or operations carried out subsequently by the final user.

Notes:

The person importing products becomes responsible for they comply with directives which apply to them, at very least, it's recommended that the importer obtain a copy of original Declaration of conformity from the manufacturer.

1) *Designation/function : Robotic Lawnmower*

2) *Type : G10, G20, G30*

3) *Serial number : ISEZJ yyyy yyyy / ISEZK yyyy yyyy / ISEZM yyyy yyyy (y" indicates any number from 0-9)*

4) *Applicable EC Directives :* - *Machinery Directive 2006/42/EC*
Additional used EC Directives : - *EMC Directive 2014/30/EU*
- *Noise directive: 2000/14/EC*
- *amended by 2005/88/EC*
- *RoHS Directive 2011/65/EU*
- *Radio Equipment Directive 2014/53/EU*
- *Low Voltage Directive 2014/35/EU*

5) *Used Standards :*

For Lawn mower :

EN 50636-2-107 : 2015+A1 : 2018+A2:2020+A3 : 2021,
EN 60335-1 : 2012+A11:2014+A13 : 2017+A1 : 2019+A2:2019+A14 : 2019+A15:2021,
EN IEC 62311 : 2020, EN IEC 55014-1 : 2021, EN IEC 55014-2 : 2021,
EN IEC 61000-3-2 : 2019+A1 : 2021, EN 61000-3-3 : 2013+A1 : 2019+A2:2021

For WIFI module (2.4G) :

EN 301 489-1 V2.2.3, EN 301 489-17 V3.2.4, EN 300 328 V2.2.2

For charger :

EN IEC 55014-1 : 2021, EN IEC 55014-2 : 2021, EN IEC 61000-3-2 : 2019+A1:2021,
EN 61000-3-3 : 2013+A1 : 2019+A2 : 2021, EN IEC 60335-2-29:2021+A1 : 2021,
EN 60335-1 : 2012+A11 : 2014+A13 : 2017+A1 : 2019+A2:2019+A14 : 2019+A15 : 2021,
EN 62233 : 2008

For Noise : *EN ISO 3744:1995*

For RoHS : *EN IEC 63000:2018*

Measured sound power level	60.6 dB(A) for models G10, G20 62.4 dB(A) for model G30
Guaranteed sound power level	65 dB(A) for models G10, G20 68 dB(A) for models G30
Conformity assessment method to Annex VI Directive 2000/14/EC and 2005/88/EC	
EC type approval to 2006/42/EC	24SHX0239-01 Intertek Deutschland GmbH (NB 905)
7) <i>Authorized Signature:</i>	
<i>Name: Hao Doudou</i>	<i>Title: Manager</i>
<i>Partly place: Shanghai</i>	<i>Date: 2024-03-13</i>

Manufacturer: Shanghai Xiaojia data & Technology Co., LTD.

Contact us if you experience issues relating to the operation, maintenance and safety, or errors/faults with your lawnmower.

Europe Authorized representative:

CALLE RIO TORMES NUM. 1, PLANTA 1, DERECHA, OFICINA 3, Fuenlabrada, Madrid, 28
947 Spain

Website : <https://www.isward-tech.com>

E-mail Sales : info@isward-tech.com

E-mail Service : service@isward-tech.com

The manufacturer reserves the right to make changes to the product, release firmware updates, and update this manual at any time. Illustrations of the product, accessories, and app interface in the User Manual are for reference purposes only. Actual product and functions may vary. Go to <https://www.isward-tech.com/> for the latest user materials.