DREAME

Dreame Roboticmower A2

User Manual

DECLARATION OF CONFORMITY

Dreame Trading (Tianjin) Co., Ltd.
No. 1-1-2112, Financial and Trade Center South Zone, 6975 Asia Road,
Tianjin Pilot Free Trade Zone (Dongjiang Bonded Port Zone), Tianjin 300461, P.R. China

On behalf of Dreame declare that the product
Description **Robotic Lawnmower**
Type **MLLA7210**
Function **Cutting grass**

Complies with the following Directives
2006/42/EC, 2014/30/EU, 2014/35/EU, 2011/65/EU&(EU)2015/863,2014/53/EU

Standards conform to,
EN 60335-1:2012+A11+A13+A1+A14+A2:2019+A15:2021, EN 50636-2-107:2015+A1+A2:2020+A3: 2021, EN 60335-2-29:2004+A2+A11:2018, EN 62233:2008, EN 55014-1:2017+A11:2020, EN 55014-2:2015, EN IEC 61000-3-2:2019, EN 6 1000-3-3:2013+A1:2019, EN ISO 3744:2005, EN300 328V2.2.2, EN 301 489-1V2.2.3, EN 301 489-17 V3.2.4, EN IEC 62311:2020, EN 61558-1:2005+A1:2009, EN 61558-2-16:2 009+A1:2013, EN 55011:2016+A11:2020, EN 303 447 V1.1.1, EN 55032:2015+A11:2020, EN 55035:2017+A11:2020

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Position of the issuer: Quality Director

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CE

Original Instructions

Table of Contents

1 Safety Instructions

1.1 General Safety Instructions

• Carefully read and understand the user manual before using the product.
• Only use the equipment recommended by Dreame with the product. Any other usage is incorrect.
• Do not allow children to be in the vicinity or play with the machine when it is operating.
• Do not use the product in areas where people are unaware of its presence.
• When manually operating the product with the Dreamehome app, do not run. Always walk, watch your steps on slopes, and maintain balance at all times.
• Avoid using the product when there are people, especially children or animals, in the work area.
• If operating the product in public areas, place warning signs around the work area with the following text: "Warning! Automatic lawn mower! Keep away from the machine! Supervise children!"
• Wear sturdy footwear and long trousers when operating the product.
• To prevent damage to the product and accidents involving vehicles and individuals, do not set work areas or transport paths across public pathways.
• Do not touch moving hazardous parts, such as the blade disc, before it has come to a complete stop.
• Seek medical aid in case of injury or accidents.
• Set the product to **OFF** before clearing blockages, performing maintenance, or examining the product. If the product vibrates abnormally, inspect it for damage before restarting. Do not use the product if any parts are defective.
• Do not install the main cable in areas where the product will cut. Follow the instructions provided for cable installation.
• Only use the charging station included in the package to charge the product. Incorrect use may result in electric shock, overheating, or corrosive liquid leakage from the battery. In case of electrolyte leakage, flush with water/neutralizing agent and seek medical aid if the corrosive liquid comes into contact with your eyes.
• When connecting the main cable to the power outlet, use a residual-current device (RCD) with a maximum tripping current of 30 mA.
• Only use original batteries recommended by Dreame. The safety of the product cannot be guaranteed with non-original batteries. Do not use non-rechargeable batteries.
• Keep extension cords away from moving hazardous parts to avoid damage to the cords which can lead to contact with live parts.
• The illustrations used in this document are for reference only. Please refer to the actual products.
• Never allow children, persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge or people unfamiliar with these instructions to use the machine, local regulations may restrict the age of the operator.
• Do not connect or touch a damaged cable until it is disconnected from the power outlet. If the cable becomes damaged during operation, disconnect the plug from the power outlet. A worn or damaged cable increases the risk of electrical shock and should be replaced by service personnel.
• Do not push the product forcefully or quickly, as this may damage the product.
• To maintain compliance with the RF exposure requirement, a separation distance of 35 cm between the device and the human should be maintained.
• For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance.

1.2 Safety Instructions for Installation

• Avoid installing the charging station in areas where people may trip over it.
• Do not install the charging station in areas where there is a risk of standing water.
• Do not install the charging station, including any accessories, within 60 cm of any combustible material. Malfunctioning or overheating of the charging station and power supply can pose a fire hazard.

1.3 Safety Instructions for Operation

• Keep your hands and feet away from the rotating blades. Do not place your hands or feet near or below the product when it is turned on.
• Do not lift or move the product when it is turned on.
• Use the park mode or set the product to **OFF** when there are people, especially children or animals, in the work area.
• Ensure that there are no objects such as stones, branches, tools, or toys on the lawn. Otherwise, the blades may be damaged when they come into contact with an object.
• Do not put objects on top of the product or charging station.
• Do not use the product if the STOP button is not functioning.
• Avoid collisions between the product and people or animals. If a person or animal comes in the path of the product, stop it immediately.
• Always set the product to **OFF** when it is not in operation.
• Do not use the product simultaneously with a pop-up sprinkler. Utilize the Schedule function to ensure that the product and pop-up sprinkler do not operate at the same time.
• Avoid placing a connection channel where pop-up sprinklers are installed.
• Do not operate the product in the presence of standing water in the work area, such as during heavy rain or water pooling.

1.4 Safety Instructions for Maintenance

• Set the product to **OFF** when performing maintenance.
• After washing, ensure that the product is placed on the ground in its normal orientation, not upside down.
• Do not reverse the product to clean the chassis. If you do reverse it for cleaning purposes, make sure to restore it to its proper orientation afterward. This precaution is necessary to prevent water from entering the motor and potentially affecting normal operation.
• Disconnect the plug from the charging station or operate the disabling device before cleaning or performing maintenance on the charging station.
• Do not use a high-pressure washer or solvents to clean the product.

1.5 Battery Safety

Lithium-ion batteries can explode or cause a fire if disassembled, short-circuited, exposed to water, fire, or high temperatures. Handle them with care, do not dismantle or open the battery, and avoid any form of electrical/mechanical abuse. Store them away from direct sunlight.
1. Only use the battery charger and power supply provided by the Manufacturer. The use of an inappropriate charger and power supply can cause electric shocks and / or overheating.
2. DO NOT ATTEMPT TO REPAIR OR MODIFY BATTERIES! Repair attempts may result in severe personal injury, due to explosion or electrical shock. If a leak develops, released electrolytes are corrosive and toxic.
3. This appliance contains batteries that are only replaceable by skilled persons.

1.6 Residual Risks

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

1.7 Symbols and Decals

	**WARNING –** Read user instructions before operating the machine.
	**WARNING –** Keep a safe distance from the machine when operating.
	**WARNING –** Operate the disabling device before working on or lifting the machine.
	**WARNING –** Do not ride on the machine.
	**WARNING –** It is not permitted to dispose of this product as normal household waste. Ensure that the product is recycled in accordance with local legal requirements.

CE	This product conforms to the applicable EC Directives.
III	Class III
	Before charging, read the instructions.
⎓	Direct current
	Class II

INTENDED USE

The garden product is intended for domestic lawn mowing. It is designed to mow often, maintaining a healthier and better looking lawn than ever before. Depending on the size of your lawn, your mower may be programmed to operate at any time or frequency. It is impossible for digging, sweeping or snow cleaning.

CE

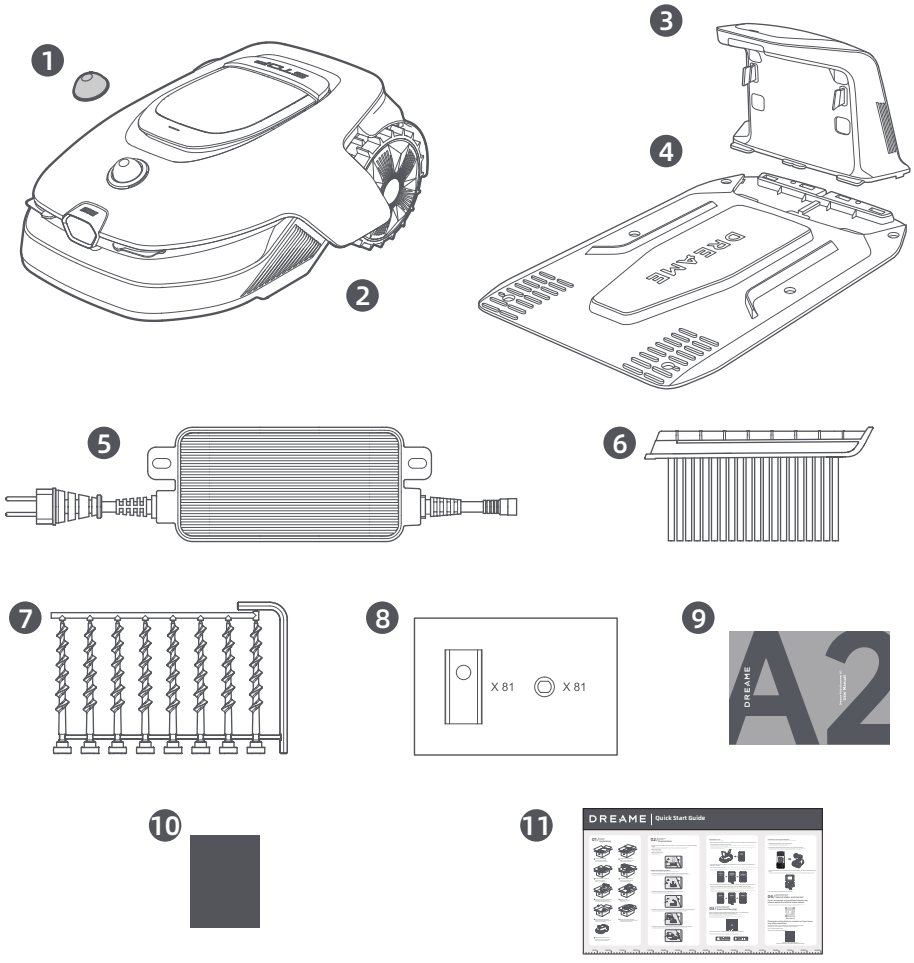
Hereby, Kutting Technology (Suzhou) Co., Ltd. declares that the radio equipment model Dreame MXXA8210 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: https://global.dreametech.com/pages/declaration-of-conformity.

The product is in compliance with UK PSTI regulations, the full text of declaration of conformity is available at the following internet address: https://global.dreametech.com/pages/statement-of-compliance-for-uk-psti.

For detailed e-manual, please go to https://global.dreametech.com/pages/user-manuals-and-faqs.

2 Product Introduction

2.1 What's in the Box



1 LiDAR protective cover

2 The robot

3 Charging tower
(with a 10 m extension cable)

4 Baseplate

5 Power supply

6 Cleaning brush

7 Screws × 8, Hex key

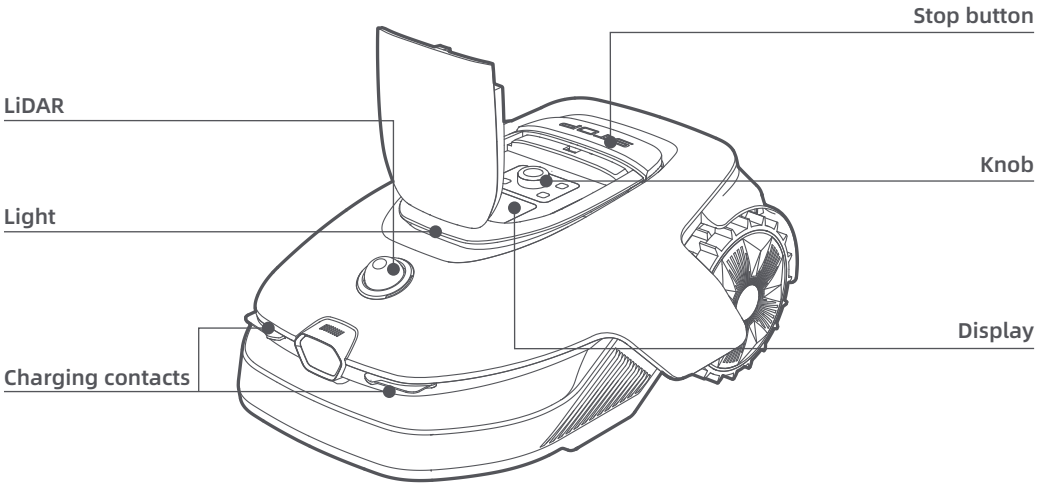
8 Spare blades and holders × 81

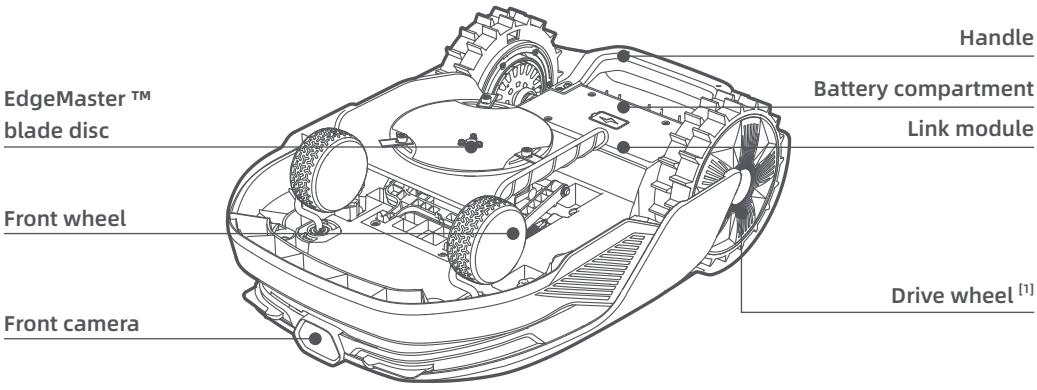
9 User manual

10 Lint-free cloth

11 Quick start guide

2.2 Product Overview

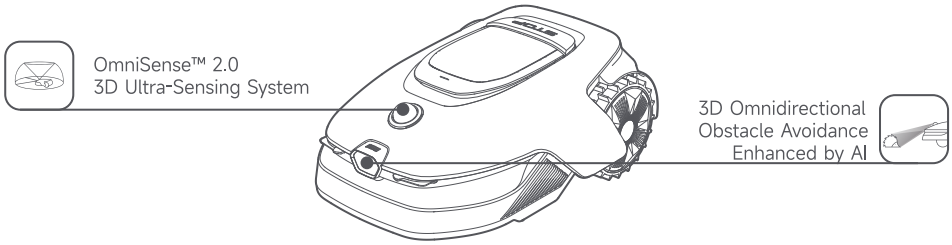




[1] Equipped with hub motors.

2.3 OmniSense ™ 2.0: 3D Ultra-Sensing System with AI Camera

Elevate lawn care to the next level with OmniSense ™ 2.0, a groundbreaking 3D ultra-sensing system equipped with an algorithm-assisted HDR camera, providing a more comprehensive and detailed perception of the garden's 3D environment.



2.4 Link Module with GPS and 4G Connectivity

The robot is equipped with a Link Module that provides the Link Service, offering 4G cellular network connectivity.

Activate the Link Service

Power on your robot and the Link Service will activate automatically. will light up on the robot's display and in the app, indicating that activation is successful. You can view the usage status of the Link Module and Link Service under **Connections** in the app.

With the Link Service activated, you can remotely monitor your robot's status and initiate mowing tasks without a Wi-Fi connection. Additionally, the module includes a built-in GPS for real-time location tracking, enhancing the robot's anti-theft capabilities. You can track its location at any time, from anywhere, and receive notifications if it moves outside the designated map area.

Link Service is offered free of charge for the first three years starting from the time of activation. To extend the service upon expiration, please contact the Dreame after-sales service team via **dreamesupport@dreame.tech**.

Important: The Link Module is designed exclusively to be used with Dreame robotic lawnmowers. Any abnormal status detected in the Link Service may result in the suspension of your service. If this occurs, please contact the Dreame after-sales service team via **dreamesupport@dreame.tech** to help you restore the service.

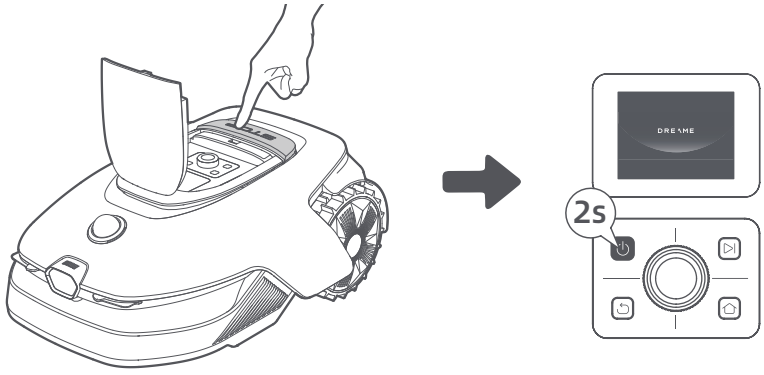
Important: If you do not contact Dreame after-sales service to renew the Link Service within one year after its expiration, your Link Module will be locked. To reactivate the service, you must bring the Link Module to a Dreame after-sales service center. Additional charges for repair and maintenance may apply for reactivation. Please pay attention to notifications in the app concerning this issue. To check the expiration date of your Link Service, go to **Settings > Connections > Link Module** in the app.

How to remove the Link Module?

Caution: Please wear protective gloves to prevent injuries.

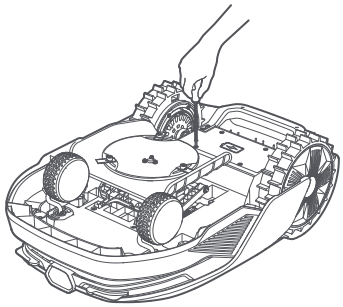
Caution: Make sure the protective cover is on the LiDAR before turning the robot over.

❶ Turn off the robot.

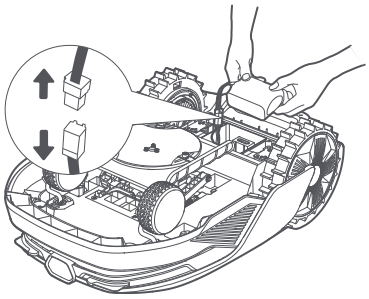


❷ Place the robot on a soft surface and turn it upside down.

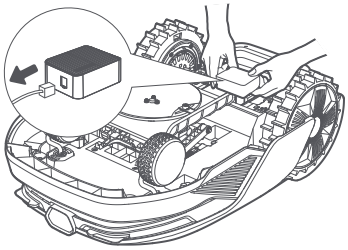
❸ Loosen 4 screws to remove the cover using a screwdriver.



❹ Take out the battery, and disconnect the battery connector.



❺ Disconnect the module connector and carefully remove the Link Module from its slot.



2.5 Sensors

Name	Description
LiDAR	Obtains environmental information and facilitates the robot's positioning, obstacle avoidance and sensing of water and dirt. Detection range (at 100 klx): 40 m at 10% reflectivity; 70 m at 80% reflectivity Field of view: 360° (horizontal) × 59° (vertical)
Front Camera	Detects obstacles, lawn boundaries, and human presence. Angle of view: 89° (horizontal), 58° (vertical), 97° (diagonal) Resolution: 2 MP
GPS	The Link Module with a built-in GPS is installed in the robot. You can track the robot's real-time location in Google Maps via the app.

3 Installation

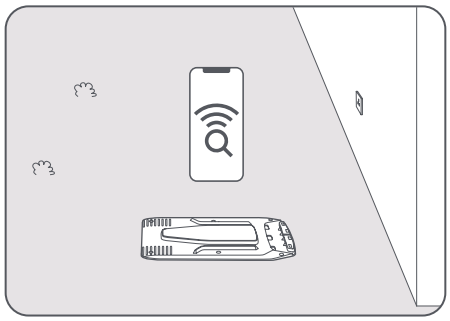
3.1 Select a Suitable Location

• Place the charging station on a level surface near the edge of the lawn and a power outlet. Place it in an area with a strong Wi-Fi signal.

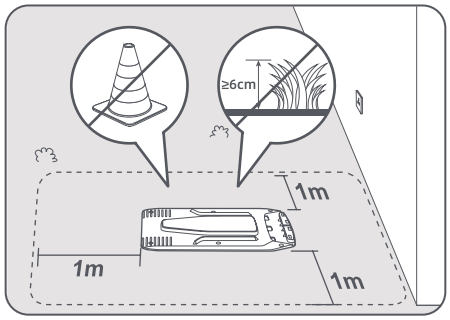
Note: Use your mobile device to help check the Wi-Fi signal strength of the location. A good Wi-Fi signal strength ensures a stable connection between the robot and the app.

Important: Make sure the ground is soft enough to allow screw installation.

Important: If the charging station is on a slope, ensure the incline is not too steep to prevent the robot from slipping back and failing to dock.

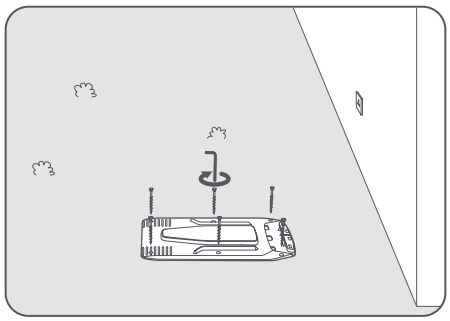


• Keep at least **1 m** of free space with no obstacles to the left, right and in front of the charging station. Make sure that the grass around the location is shorter than **6 cm**. If the grass is taller, please mow it with a push mower first. Tall grass may make it difficult for the robot to return to the charging station.

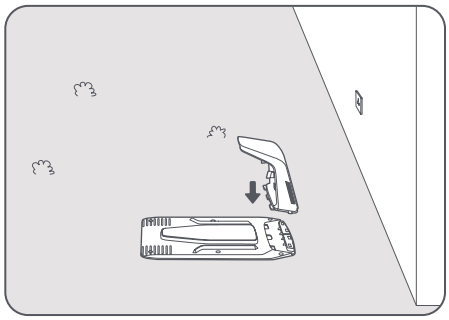


3.2 Install the Charging Station

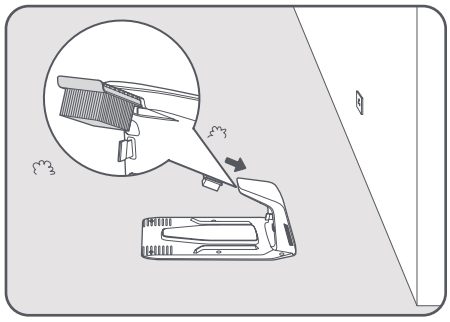
❶ Secure the baseplate to the ground with the supplied screws and hex key.



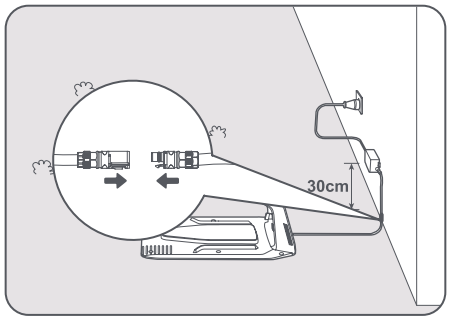
❷ Insert the charging tower into the baseplate until you hear a click.



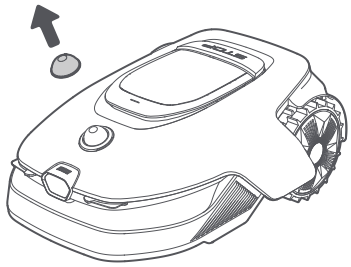
❸ Insert the cleaning brush into the charging tower by aligning the tab with the slot.



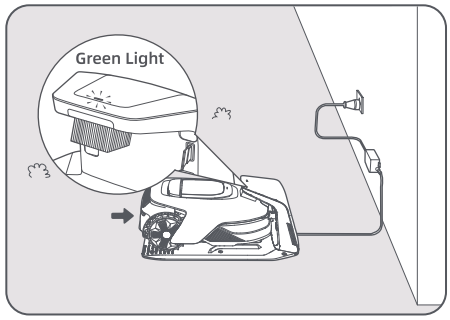
❹ Connect the power supply to the extension cable and then connect to a power outlet. Please keep the power supply at least **30 cm** above the ground.
Note: The LED indicator on the charging station will be **constant blue** when there is power.



❺ Remove the LiDAR protective cover.



❻ Put the robot in the charging station to charge. Make sure the charging contacts on the robot and the charging station are connected correctly.
Note: The indicator light will **blink green** when the robot is charging successfully in the charging station.
Note: If you're looking to add a garage for extra protection, please use the matching Dreame Garage available at local stores or online. Using a non-Dreame garage may cause issues during recharging.

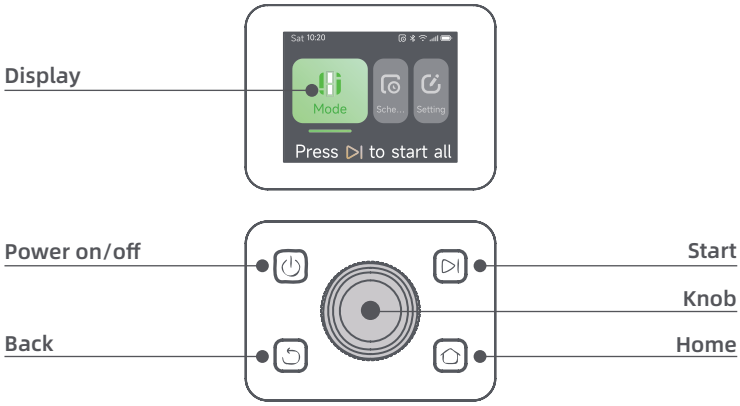


LED Indicator on the Charging Station

LED Indicator Light Colour	Meaning
Blinking/solid red	1. There is an issue with the charging station (such as a problem with the charging current or voltage).
	2. The robot docks in the charging station but the charging is abnormal (for example charging contacts have a short circuit).
Solid blue	The charging station has power. The robot is not in the charging station.
Blinking green	The robot is charging in the charging station.
Solid green	The robot is in the charging station and fully charged.

4 Preparation for First Use

4.1 Get Familiar with the Control Panel



Display

Icon	Status
	Battery level (Shows the current battery level.)
	Charging (The robot successfully docks in the charging station.)
	Bluetooth (The robot is connected to the app via Bluetooth.)
	Wi-Fi (The robot is connected to the app via a Wi-Fi network.)
	Link service (Link service is activated.)
	Schedule (A task is scheduled for today and has not started yet.)

Controls

Button	Function
Power ⏻	To turn on/off the robot, press and hold the ⏻ button for 2 seconds. Ensure it is outside the charging station.
Start ⏯	To start all-area mowing or resume paused tasks, press the ⏯ button, then close the cover in 5 seconds. The task will be cancelled if the cover is not closed in 5 seconds.
Home ⌂	To send the robot back to the charging station to charge, press the ⌂ button, then close the cover in 5 seconds. The task will be cancelled if the cover is not closed in 5 seconds.
Back ↩	To navigate up one level in the menu, press the ↩ button.
Knob	To confirm the selection in the menus, press the knob.
	To enable Bluetooth pairing mode, press and hold the knob for 3 seconds.
	To navigate through the menu, turn the knob clockwise/anticlockwise.
Start + Back	To factory reset the robot, press and hold the ⏯ button and the ↩ button together for 3 seconds. The PIN code will not be erased.
Home + Back	Press and hold ⌂ button and ↩ button together for 3 seconds to enter the **About** page in Settings. The About page will disappear in 5 seconds.
Knob + Back	To reset the PIN code, press and hold the knob and the ↩ button together for 3 seconds.
Stop	Press the **Stop** button to open the top cover and stop the robot. PIN code must be entered on the control panel to resume the operation.

Menu Structure Overview

*It might be updated depending on the software version.

Light

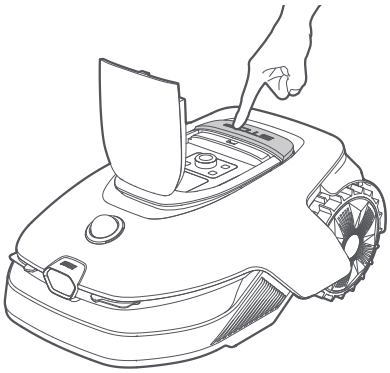
Colour	Meaning
Solid red	An error has occurred.
Solid blue	The robot is on standby.
Blinking blue	The robot is performing a task or is paused.
Blinking green	The robot is charging in the charging station.
Solid green	The battery is fully charged.
Blinking yellow	1. The robot is on patrol. 2. Real-time video from the front camera is displayed via the app.

Note: You can customise the activation period and scenarios of the robot light in **Settings > Light**.

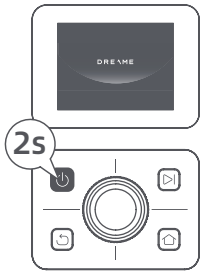
4.2 Initial Settings

Before turning the robot on for the first time, there are some basic settings to do before the robot is ready to start working.

❶ Press the **Stop** button to open the top cover.

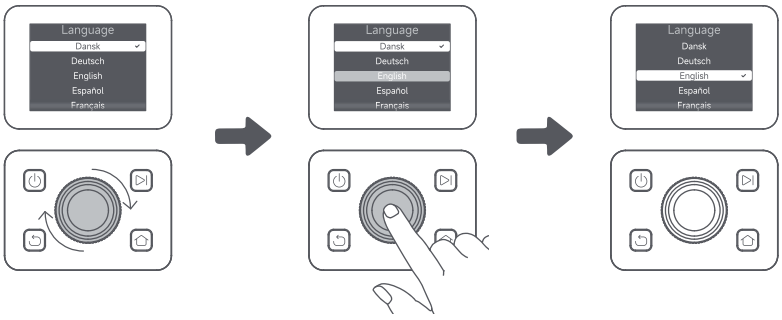


❷ Press and hold the ⏻ button on the control panel for 2 seconds to turn on the robot. Alternatively, you can dock the robot in the charging station and it will automatically turn on.
Note: The robot will automatically turn on when it docks in the charging station.



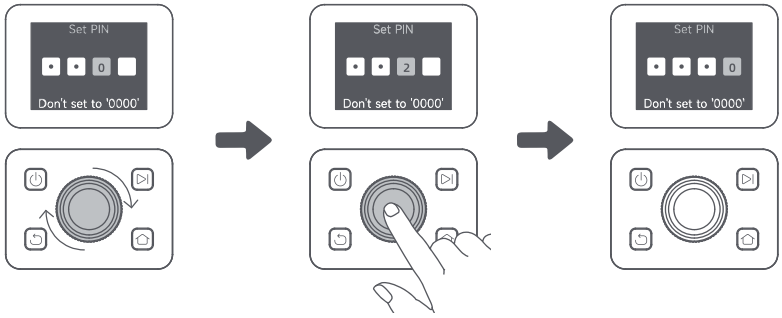
❸ Select the Language You Prefer

Turn the knob clockwise to go down and anticlockwise to go up to select your language. Press the knob to confirm.



❹ Set PIN code

1. Turn the knob to select a number from 0 to 9. Turn clockwise to increase the number and anticlockwise to decrease it. Press the knob to confirm and set the next digit. To modify the previous digit, turn the knob anticlockwise until the number becomes 0 and keep turning it one time more.
Important: Please do not set the PIN code to "0000".



2. Enter the PIN code again to complete setting the PIN code.
Note: If two passwords do not match, please set the new password again.

❺ Connect the Robot to the Internet

Please scan the QR code to download the Dreamehome app on your mobile device. After the installation, please create an account and log in.

You can also download Dreamehome app from App Store or Google Play.

Download on the App Store Get it on Google Play

The robot is installed with the Link Module that supports 4G connectivity and includes built-in GPS. However, for optimal performance, we recommend setting up a Wi-Fi connection.

Before network setup:

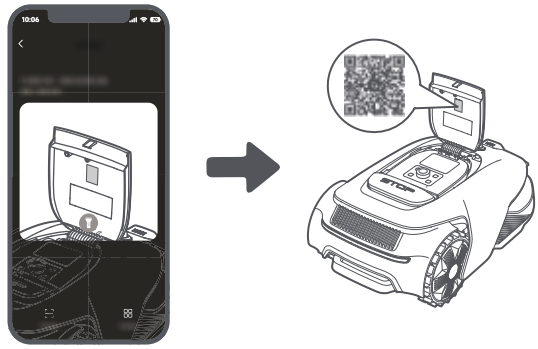
- Make sure the robot and your mobile device are on the same Wi-Fi network.
- Make sure that your mobile device is within **10 m** of the robot.
- Enable Bluetooth function on your mobile device.

1. Open the Dreamehome app.
2. You can connect via one of the following methods:

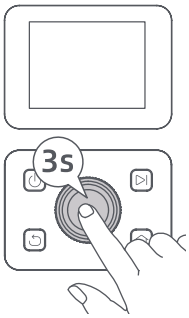
a. Scan the QR Code: Go to **Device** and tap **Scan QR code to connect.** Scan the QR code located inside the robot's top cover to connect.

b. Add Manually: Go to **Device** and tap **Add**. Then select your robot model to connect.

c. Automatic discovery: The robot will search for nearby devices. Tap your robot from the list of discovered devices to connect.



3. Follow the in-app instructions to complete the Wi-Fi network connection.
Important: Please use a single-band network of 2.4 GHz frequency or dual-band network of 2.4/5 GHz frequency.
Important: Make sure your Wi-Fi network doesn't have a firewall and isn't encrypted. Otherwise, the network setup may fail.
4. Press and hold the knob on the control panel for 3 seconds. The robot will enter Bluetooth pairing mode.



5. Follow the in-app instructions to complete the pairing.

How to unbind the robot?

The robot is automatically bound to the Dreamehome account once pairing is successful. Each device can only be bound to one account. It cannot be bound to another account at the same time.
To pair the robot with a new account, you need to unbind it first. To unbind it:
1. Open the Dreamehome app. Go to **Device**.
2. If you have multiple robots bound to your Dreamehome account, swipe left or right to access the page of the robot you want to edit.
3. Tap ⋮ in the upper right corner.
4. Select **Delete**.

How to log out of your Dreamehome account or delete it?

1. Open the Dreamehome app. Go to **Me** > > **Account**.
2. Select **Log Out** or **Delete Account**.

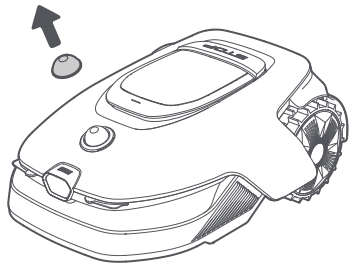
How to share your robot?

1. Open the Dreamehome app and go to **Device**.
2. If you have multiple robots bound to your Dreamehome account, swipe left or right to access the page of the robot you want to share.
3. Tap ⋮ in the upper right corner.
4. Select **Device Sharing**.

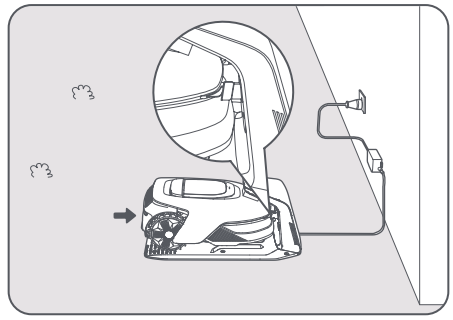
5 Map Your Garden

Before mapping, please check the following:

- The battery level of the robot is more than 50%.
- The protective cover of the LiDAR is removed.



- The top cover is closed.
- The robot correctly docks in the charging station.



5.1 Create the Virtual Boundary

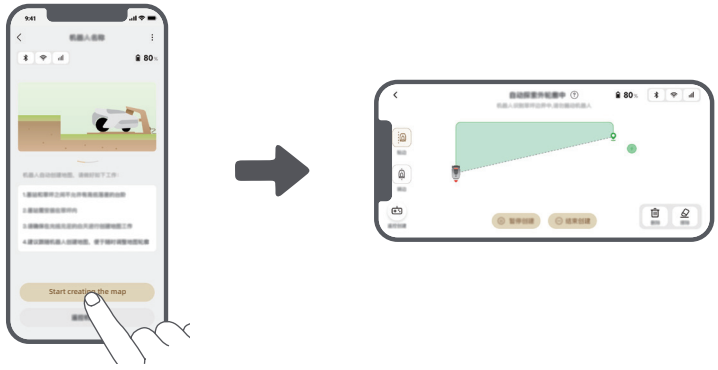
5.1.1 Automatic Mapping

The robot utilises OmniSense ™ 2.0 technology to automatically detect and map the boundaries of your garden. Follow these steps to automatically create a map:

Important: The Auto Mapping function should be used in daylight to ensure proper visibility. Avoid using this feature in poor light or rainy conditions.

Important: Make sure the robot's front camera is clean and unobstructed.

❶ Open the app and tap **Start Creating** to initiate the automatic mapping. The robot will detect and map the boundaries of your lawn. You can choose whether the robot should cross the perimeter for cleaner edge cutting results or stay close to it to avoid collisions.

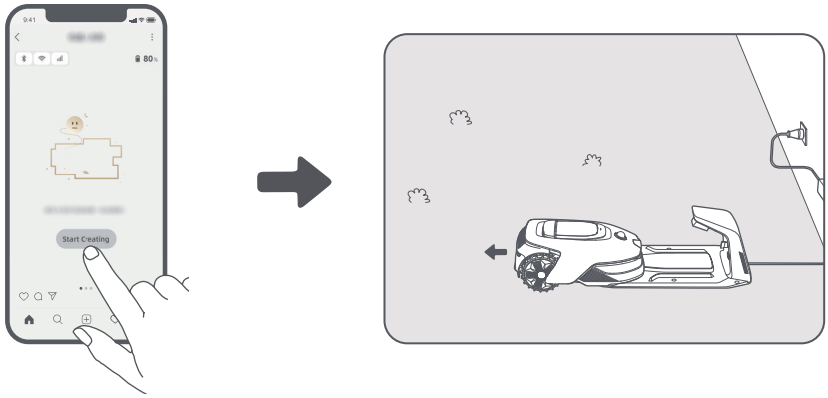


❷ We recommend following the robot during the mapping process. If the robot fails to accurately detect the boundaries, you can exit automatic mapping mode and switch to manual control at any time.

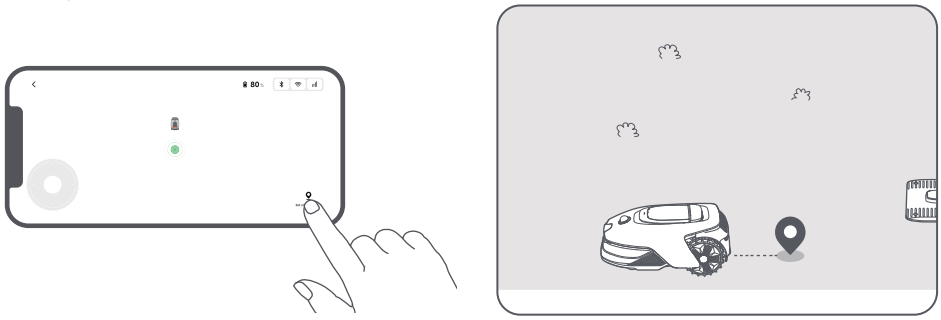
5.1.2 Mapping via Remote Control

If you prefer not to use the Auto Mapping feature, you can switch to remote control to map out the boundaries.

❶ Tap Remote Control to enter remote control mode.



❷ Guide the robot to the edge of your lawn and tap **Set Starting Point** to establish the starting point for the boundary.

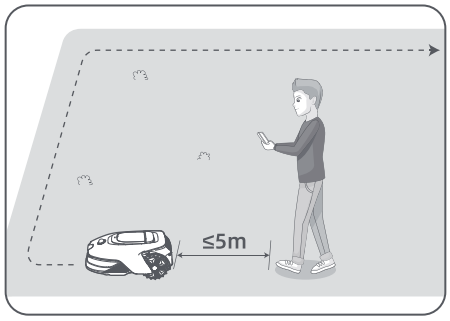


❸ Remote control the robot to move along the perimeter of your lawn to map out the work area. During the mapping process, please bear in mind:

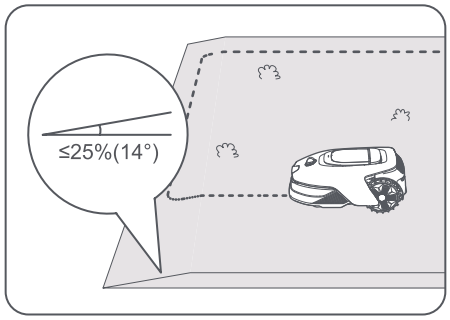
Important: Do not manually move the robot when creating the boundary, as this may cause the mapping to fail.

Important: When the mapping begins, do not remotely dock the robot in the charging station until the mapping process is complete. Otherwise, the LiDAR may be blocked, which can cause the mapping to fail.

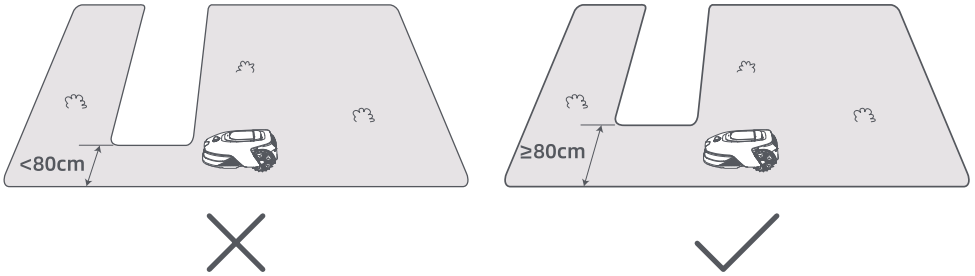
• Walk within **5 m** behind the robot during the remote control.



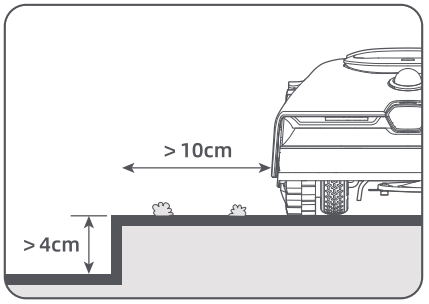
• The robot can navigate slopes with an incline up to **50% (27°)**. However, for better mowing results, it is recommended to keep the slopes of work areas below **25% (14°)**.



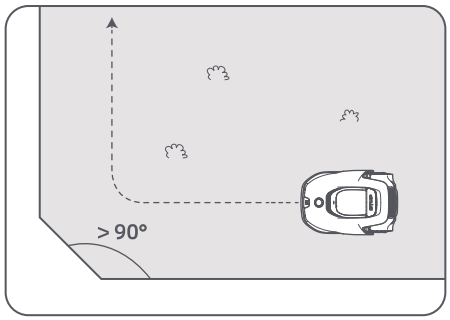
• For areas narrower than **80** cm, please set them as paths to allow the robot to pass through (see section 5.4: **Set Path**).



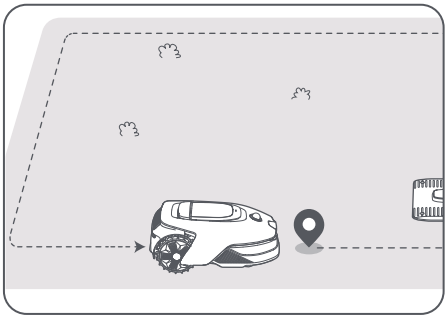
• If your lawn is more than **4 cm** higher than the adjacent ground, keep the robot at least **10 cm** away from the edge. If your lawn is level with the adjacent ground, the robot can cross the perimeter for optimal mowing results along the edges.

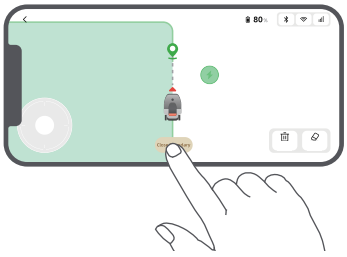


• Make sure the turning angles are greater than **90°** . Angles smaller than 90° can make it difficult for the robot to achieve a clean cut.



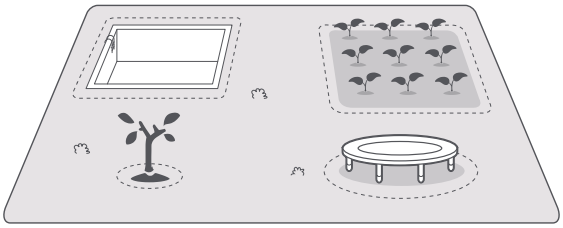
❹ When the robot returns to within **1 m** of the starting point, you can tap **Close Boundary** and the boundary will automatically be completed.





5.2 Set No-Go Zone

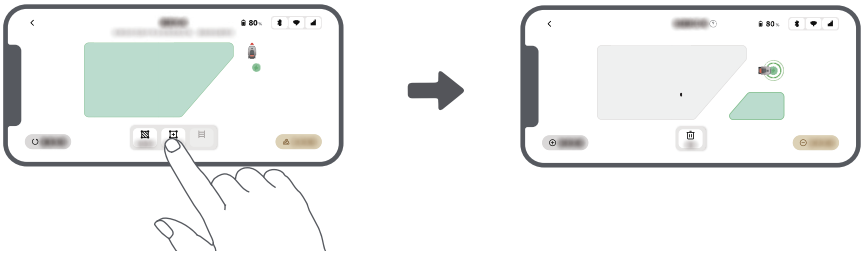
Though the robot can automatically avoid obstacles, it is still necessary to set areas with a risk of falling, such as swimming pools and sandpits, as no-go zones. For objects you want to protect (such as a flowerbed, a trampoline, a vegetable patch or an exposed tree root), please set them as no-go zones. You can tap **No-go zone** in the app to continue creating no-go zones. Alternatively, you can go to > **Map Editing** to create or delete the no-go zones after the map is finished.



5.3 Create More Zones and Expand Existing Zones

• To Create More Zones

If your lawn is separated by roads or you have several isolated lawns, you can tap **Work zone** in the app to continue creating work areas. You can also add, delete or modify the zones in > **Map Editing** when the map is finished.



• To Expand Existing Zones

To expand an existing zone, tap **Work zone** in the app to create the area you want to include. If the two areas overlap, they will be automatically merged. Alternatively, you can go to > **Map Editing** > **Work zone** after mapping is complete to expand an existing zone.

• To Separate and Combine Zones

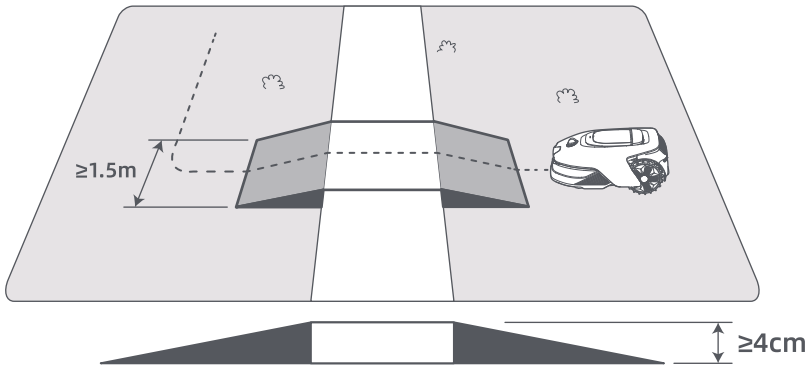
To divide a zone into smaller ones or to merge zones that were divided using the app into a larger one, go to > **Map Editing** > **Zone settings** and tap **Separate** or **Combine** in the app.

5.4 Set Path

For isolated zones, please create a path to connect them. Isolated zones without a path will be inaccessible to the robot.

Note: By default, the robot only moves along the path without mowing the grass.

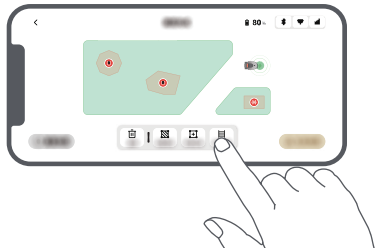
Important: If your lawn is divided by passages higher than **4 cm**, place an object with a slope equal in height to the passage (such as a ramp).



• To Connect Two Isolated Work Zones

For isolated areas, please create paths to connect them, otherwise they will be inaccessible to the robot. Tap **Path** to create a path.

Important: Make sure the beginning and end of the path are in the work area.

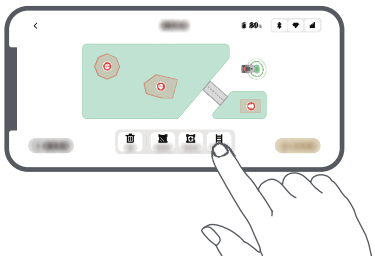


• To Connect the Work Area and the Charging Station

If your charging station is not in the work area, a path should be created to connect it to the work area. Tap **Path** to create a path that allows the robot to return to the charging station.

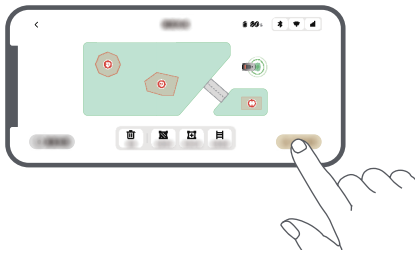
Important: Ensure that one end is inside the work area, and the other end is right in front of the charging station. It's advisable to align the path with the charging station.

Important: When creating paths to connect the work area and the charging station, do not remotely dock the robot in the charging station. Otherwise, the LiDAR may be blocked, which can cause the mapping to fail.



5.5 Finish Map

Tap **Finish Map** when work areas, paths and no-go zones are completed.

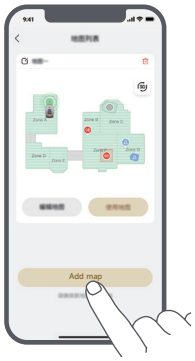


5.6 Add a Second Map

If there is no path between your front and back gardens, you can create a second map. After completing the first map, tap **Add Map** to continue creating the second one. Alternatively, you can navigate to > **Map Editing** and tap **Add Map** after mapping is complete. Once you have finished the second map, you can switch between maps through > **Map Editing**.

Note: After switching the map, the schedules and mowing settings of the current map will be applied.

Note: You can purchase an additional charging station to install in the second map for greater convenience. With a separate charging station installed in the second map, you only need to move the robot manually between two maps.



6 Operation

6.1 Start Mowing for the First Time

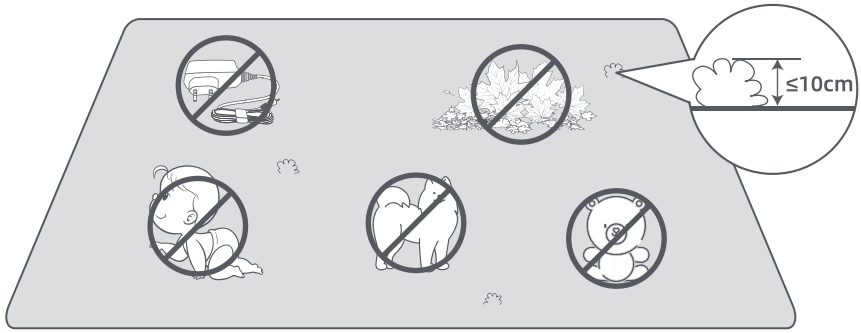
Tips before mowing:

• Use a push mower to mow the grass to a height of no more than **10 cm**.

• Clear the obstacles including debris, leaf piles, toys, wires and stones from the lawn. Make sure no children or pets are on the lawn when the robot is mowing.

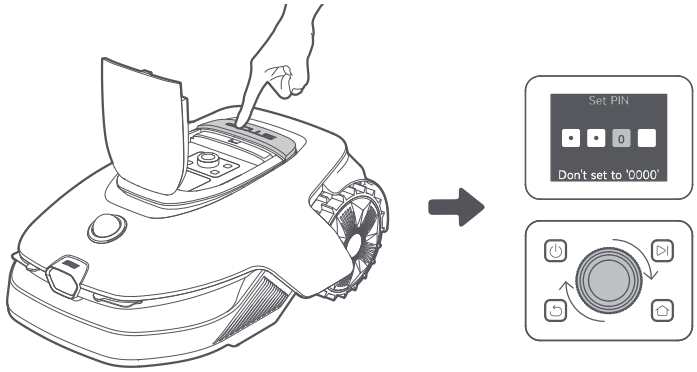
• Fill in the holes in the lawn.

• Set your mowing preferences in the app in advance (such as mowing efficiency, mowing height and mowing direction).



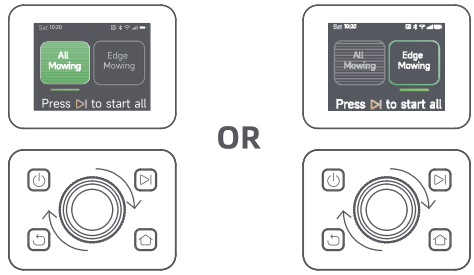
• Start via the control panel

1. Press **Stop** button to open the cover and enter the PIN code.



2. Select "Modes" on the display and press the knob.

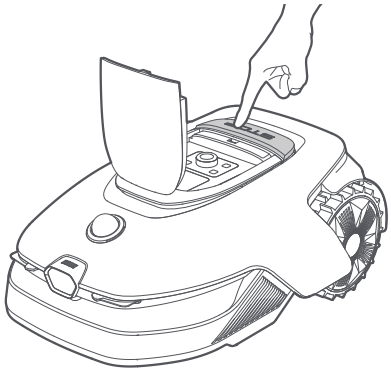
3. Turn the knob to select the mowing mode.



4. Press the ▷| button, then **close the top cover** in 5 seconds. The robot will leave the charging station and start all-area mowing. You can also tap **Start** in the app to start mowing.

6.2 Pause

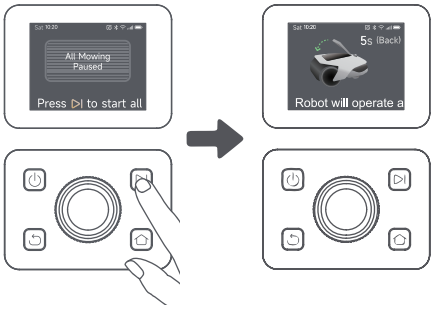
To pause the current mowing task, you can press the **Stop** button on the robot or tap **Pause** in the app.
Note: The robot cannot be started directly through the app after the **Stop** button is pressed. To resume operation, enter your PIN code on the control panel.



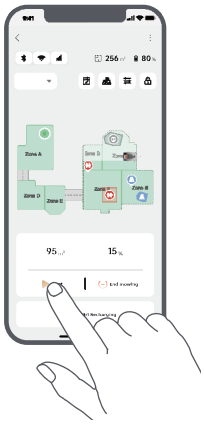
OR

6.3 Resume

To resume the task when the robot is paused, press the ▷| button, then **close the top cover** in 5 seconds. The robot will resume the previous mowing task. Alternatively, you can tap **Continue** in the app to resume the mowing task.

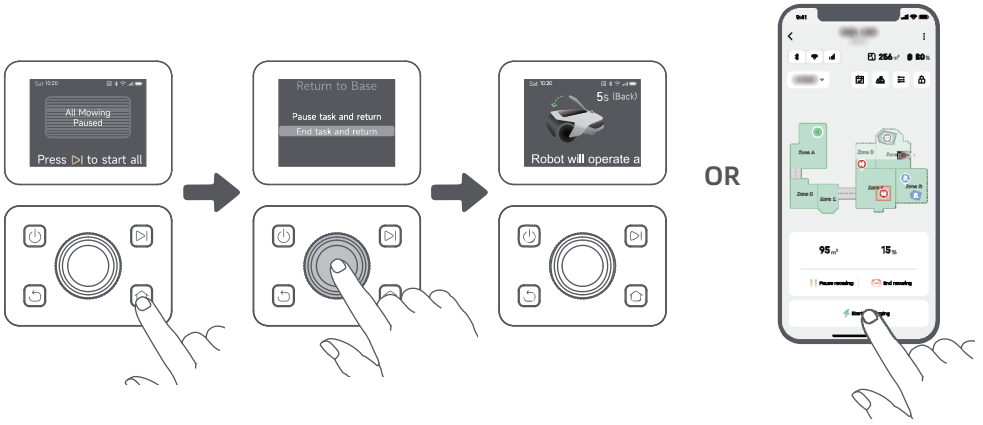


OR



6.4 Return to the Charging Station

To send the robot back to its charging station, press the ⌂ on the control panel. Confirm to pause or cancel the current task, then **close the top cover** within 5 seconds. The robot will automatically return to the charging station to recharge. Alternatively, you can select **Start Returning to Station** in the app to send the robot back.



7 Dreamehome App

Where You Can Explore More

Dreamehome app is more than a remote control. There are many things you can do through the app: completing various settings remotely, experiencing different mowing modes, editing the map freely and adjusting mowing schedules.

7.1 Mowing Modes

The robot offers various mowing modes. You can switch between modes through the app including All-Area Mowing, Zone Mowing, Edge Mowing, Spot Mowing and Manual Mode.

7.2 Mowing Shapes

Customise your lawn by adding shapes through > **Map Editing** > **Shapes** in the app. Defined shapes will be excluded from mowing in all mowing modes. You can modify their position, size, or remove them in **Shapes**.

7.3 EdgeMaster ™ Blade Disc

The EdgeMaster ™ blade disc is designed to move to the side when it reaches the lawn edges, ensuring a cleaner cut. To enable this feature, go to > **Edge Mowing Settings** > **EdgeMaster ™** in the app.

7.4 Schedule

After the first map is completed, the robot automatically creates two weekly mowing schedules according to the lawn size, which are **"Spr/Sum Schedule"** and **"Aut/Win Schedule"**. You can tap in the app to do detailed schedule settings. With the schedule function, you can completely leave the daily mowing work to the robot. You only need to maintain the robot regularly.

Note: If you worry that the robot may disturb you or your neighbours when it works autonomously during certain hours, you can go to **Settings** > **Do Not Disturb** and set **Do Not Disturb** time in the app.

7.5 Child Lock

If you worry that children may operate the robot, navigate to **Settings** and enable the **Child Lock** function in the app. With this function enabled, the robot will be locked if no operations are performed for 5 minutes when the cover is open.

7.6 Rain Protection

If you worry that adverse weather conditions may affect the mowing work, you can enable **Rain Protection** function in **Settings** on the control panel or in the app. When this function is enabled, the robot automatically pauses mowing and returns to the charging station when it rains. You can set the rain protection time in the app.

Note: Mowing wet grass can damage your lawn. It is advisable to extend the protection duration to allow the grass to get dry before mowing again. The default protection time is 3 hours, and you can increase it in the app.

7.7 Frost Protection

When temperature is below **6 °C** , mowing operations will cause permanent damages to the lawn. Battery will not be able to charge due to self-protection. You can enable **Frost Protection** function in **Settings** on the control panel or in the app. The function enables the robot to automatically pause mowing and return to the charging station when ambient temperature is ≤ **6 °C** . It will automatically resume working when temperature is above **11 °C** .

7.8 Security Features

The robot comes with multiple anti-theft features, powered by the built-in GPS in the Link module for added security. Besides, the front camera uses OmniSense ™ 2.0 technology to detect human presence, making the robot a helpful garden guardian.

7.8.1 Lift Alarm

With this function enabled, an alarm will go off immediately when the robot is lifted, and the robot will be locked. To resume operation, enter the PIN code on the robot first.

7.8.2 Off-Map Alarm

With this function enabled, the robot will be locked and alarm will go off immediately if it is away from the map.

7.8.3 Real-Time Location

You can view the current location of the robot in Google Maps.

7.8.4 Human Presence Detection Alert

When enabled, the robot will notify you and send alerts upon detecting human presence.

7.8.5 Real-time Video

Tap to view a live video feed from the robot's front camera, giving you real-time access to monitor your garden anytime, anywhere.

7.8.6 Patrol

While the robot is on standby, you can send it to patrol along specified boundaries or spots within your garden by navigating to > **Patrol** in the app.

7.9 Custom Charging Period

To customise the robot's charging period to specific hours, you can enable the **Custom Charging Period** function through **Settings > Charging** in the app. When activated, the robot will charge itself to 20% when the battery level is low, provided there are no mowing tasks. It will complete a full charge only during the designated charging period. You can also customise the **Battery Level for Auto-Recharge** and **Battery Level for Resuming Tasks** to set the battery levels at which the robot will automatically return to the charging station or resume unfinished mowing tasks.
Note: Dreame development team will continuously conduct **OTA (Over-the-Air)** updates and maintenance on the firmware and app. Please check for update notifications or enable the **Auto-update** function to keep the firmware and app up-to-date and enjoy more features.

8 Maintenance

For better performance and lifespan of the robot, please clean it regularly and replace worn parts according to the frequency below:

Part	Replacement Frequency
Blades	Every 6–8 weeks or sooner
Cleaning brush	Every 12 months or sooner

Note: You can check the remaining time for blades and the cleaning brush by navigating to **Settings** > **Consumables & Maintenance** in the app. After replacing any consumables as prompted, go to the details page for the consumable and tap **I've Replaced It** to reset the timer.
Note: If you have designated areas in your garden for routine robot cleaning and servicing, you can set Maintenance Points on the map by navigating to **Settings** > **Head to Maintenance Point** > **Edit Point**. Once the maintenance points are set, you can simply tap **Go** and direct the robot to the designated locations for easy servicing.

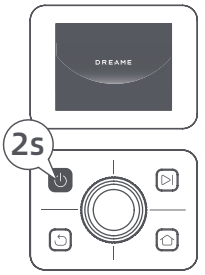
8.1 Cleaning

Regularly clean your robot to prevent grass clippings and dirt from accumulating and clogging the blade disc and drive wheels, which can affect its mowing, docking, and movement performance. We recommend using a cleaning kit, available at local stores or online.

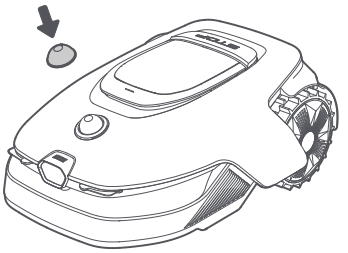
⚠ **Warning:** Before cleaning, please turn off the robot and unplug the charging station.
Caution: Please make sure LiDAR protective cover is on the LiDAR before turning the robot upside down to avoid damages to the LiDAR.

• The housing, chassis and blade disc:

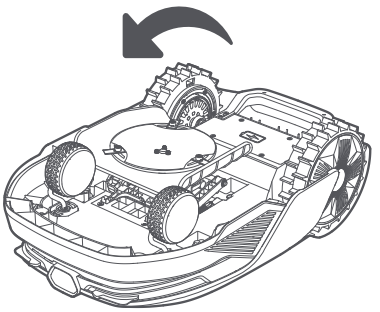
1. Turn the robot off.



2. Cover the LiDAR with its protective cover.

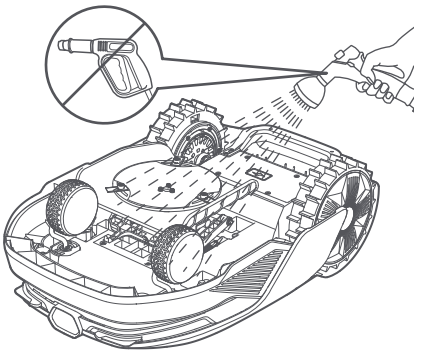


3. Turn the robot upside down.

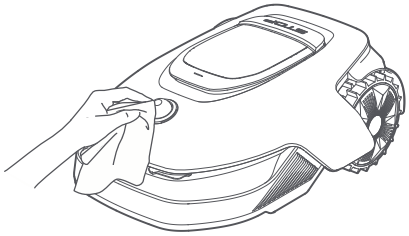


4. Clean the housing, blade disc and chassis with a hose.

⚠ **Warning:** Do not touch the blades when cleaning the chassis. Please wear gloves when cleaning.
Caution: Please do not use a high-pressure washer for cleaning. Do not use detergents for cleaning.

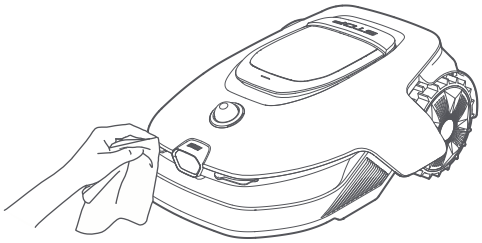


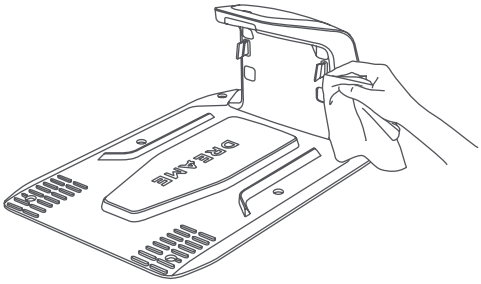
5. Use a lint-free cloth to carefully clean the LiDAR sensor.



• Charging Contacts:

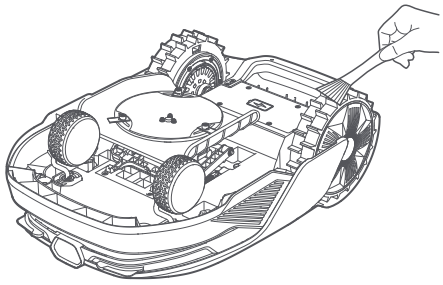
Use a clean cloth to clean the charging contacts on the robot and the charging station. Keep the charging contacts dry after cleaning.





• Drive Wheels:

Use a brush to remove mud from the wheels to ensure good grip.



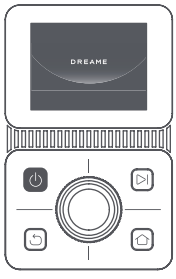
8.2 Replacing the Components

• Replacing the Blades

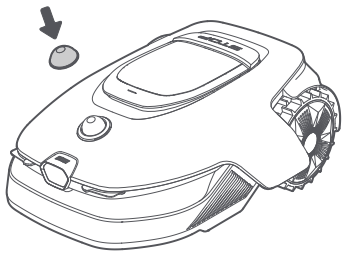
To keep the blades sharp, please replace the blades regularly. It is recommended to replace the blades every **6-8 weeks** or sooner. Please only use the Dreame genuine blades.

⚠ **Warning:** Please turn off the robot. Wear protective gloves before replacing the blades.
Note: Please replace all three blades at the same time to ensure a balanced cutting system.

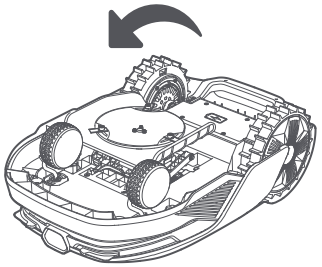
1. Turn off the robot.



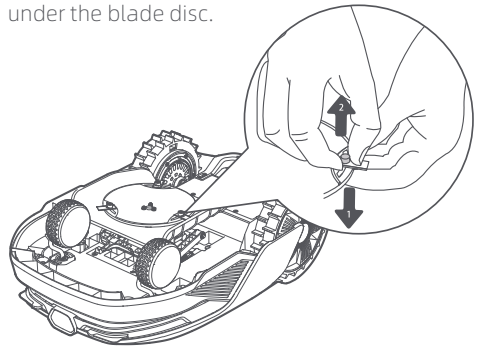
2. Cover the LiDAR with its protective cover.



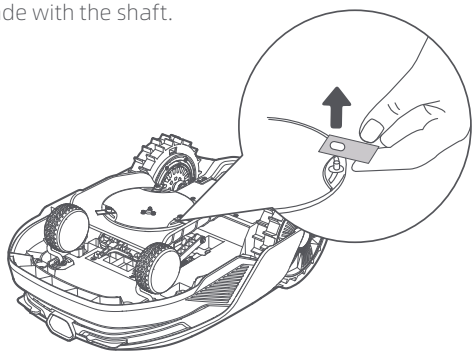
3. Put the robot on a soft surface and turn it upside down.



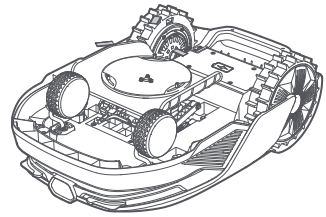
4. Remove the holder by pressing the button under the blade disc.



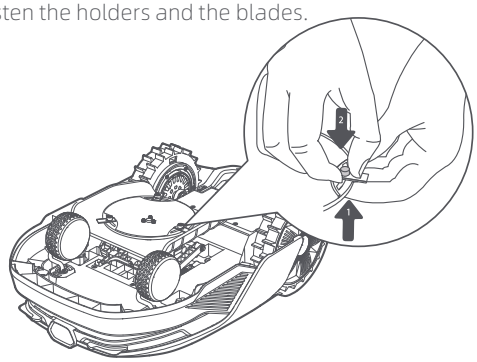
5. Remove the blade by aligning the hole of the blade with the shaft.



6. Remove 3 blades and holders.



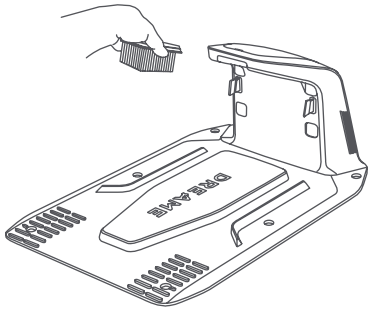
7. Press the button under the blade disc and align the hole of the holder with the shaft to fasten the holders and the blades.



8. Make sure the blades can rotate freely.

• Replacing the Cleaning Brush

When the cleaning brush for the LiDAR sensor wears out, its bristles may fray or deteriorate, affecting its cleaning performance. Please replace the cleaning brush regularly to keep a good cleaning result. It is recommended to replace the cleaning brush every **12 months** or sooner.



9 Battery

For long-term storage, charge the robot every 6 months to protect the battery. Battery damage caused by over-discharge is not covered by the limited warranty. Do not charge the battery at an ambient temperature above **45° C** or below **6° C**. The long-term storage temperature for the battery should be between **-10 and 35° C**. To minimize the damage, the recommended storage temperature for the battery is between **0 and 25° C.**

Note: The lifespan of the robot's battery depends on frequency of usage and hours of operation. If the battery is damaged or cannot be charged, do not dispose of the obsolete or faulty battery arbitrarily. Please obey local recycling regulations.

Low-Power Charging Mode:

With low-power charging mode on, functions not related to charging will be disabled. (Display and network will be turned off.)

• To enable low-power charging mode, press and hold the ▷| button and the ⌂ button simultaneously, and press the ⮌ button 5 times quickly at the same time. You will hear a voice prompt: Low-power charging mode is on.

• To disable low-power charging mode, restart the robot or press the ⏻ button 5 times quickly.

10 Winter Storage

• The Robot

1. Charge the battery fully before turning the robot off.
2. Clean the robot thoroughly before putting it into storage in winter.
3. Put on the LiDAR protective cover.
4. Store the robot inside in a dry place, at a temperature above **0° C**.

• Charging Station

Unplug the charging station and store it in a dry and cool place, away from direct sunlight.

Note: After winter storage, please reinstall the charging station and place the robot in it to charge. If you reinstall the charging station in a different location, the robot will automatically update the station's location as soon as it charges and leaves the station. If you encounter positioning errors because of major changes in your garden, it's recommended to remap the area.

11 Transport

For long distance transport, ensure that the robot is turned off. It is recommended to use the original packaging. Please put on the LiDAR protective cover.

⚠ **Warning:** Please turn the robot off before transporting it.

⚠ **Warning:** Lift the robot by the rear handle, keeping the blade disc away from your body.

12 Troubleshooting

Issue	Cause	Solution
The robot is not connected to the app.	1. The robot is not within Wi-Fi signal coverage or Bluetooth range. 2. The robot is turned off or is restarting.	1. Check if the robot has completed the process of turning on. 2. Check if the router is working properly. 3. Move closer to the robot to establish a Bluetooth connection.
Robot lifted.	The wheel is not on the ground.	1. Put the robot back on flat ground. 2. Enter the PIN code on the robot and confirm. 3. The robot can't cross objects higher than 4 cm. Please keep the ground even where it is working.
Robot tilted.	The robot tilts more than 37° .	1. Put the robot back on flat ground. 2. Enter the PIN code on the robot and confirm. 3. The robot cannot climb slopes greater than 50% (27°).
Robot trapped.	The robot is trapped and fails to get out.	1. Remove the surrounding obstacles and then retry. 2. Manually move the robot to a flat and open place inside the map and try starting the task again. If you continue to encounter this problem, please retry after the robot is in the charging station. 3. Check if there are holes in the ground. Fill in the holes before mowing to prevent the robot from being trapped. 4. Check if the surrounding grass is taller than 10 cm. You can adjust the obstacle avoidance height or use a push mower to mow the lawn in advance to prevent the robot from being trapped. 5. If the robot is often trapped in this location, you can set it as a no-go zone.
Left/right rear wheel error.	The wheel cannot rotate or the wheel motor has a problem.	1. Clean the rear wheels and then retry. 2. If you continue to encounter this error, try restarting the robot. 3. If the problem persists, please contact the after-sales service.
Blade disc can't rotate.	The blade disc cannot rotate normally or the cutting motor has a problem.	1. Clean the blade disc and then retry. 2. Check if the surrounding grass is taller than 10 cm. You can use a push mower to mow the lawn in advance to prevent the blade disc from being blocked by tall grass. 3. Check if there is water under the blade disc. If there is any, move the robot to a dry place and then retry. 4. If you continue to encounter this error, try restarting the robot. 5. If the problem persists, please contact the after-sales service.
The blade disc fails to move up or down.	The blade disc fails to move up or down.	1. Clean the blade disc and then retry. 2. If you continue to encounter this error, try restarting the robot. 3. If the problem persists, please contact the after-sales service.

Issue	Cause	Solution
The blade disc cannot move to the side.	The blade disc cannot move to the side.	1. Clean the cutting system and remove any debris or foreign objects. 2. If you continue to encounter this error, you can disable the EdgeMaster ™ function first. 3. If the problem persists, please contact the after-sales service.
Bumper error.	The front bumper sensor is constantly triggered.	1. Check if the robot is trapped somewhere. 2. Gently tap the bumper and make sure it bounces back. 3. If you continue to encounter this error, try restarting the robot. 4. If the problem persists, please contact the after-sales service.
Charging error.	The robot docks in the charging station, but the charging current or voltage has a problem.	1. Check if the charging station is correctly connected to power. 2. Check if the charging contacts on the robot and the charging station are clean. 3. After checking is finished, try docking the robot in the charging station again. 4. If the problem persists, please contact the after-sales service.
Battery temperature too high.	Battery temperature is ≥ 60℃ .	1. Use the robot where ambient temperature is below 40℃ . You can wait until the battery temperature decreases automatically. 2. You can turn off the robot and restart it after a while. 3. If the problem persists, please contact the after-sales service.
Battery temperature is high.	Battery temperature is ≥ 45℃ .	1. Charging may fail when battery temperature is above 45℃ . 2. Use the robot where ambient temperature is below 40℃ .
Battery temperature is low.	Battery temperature is ≤ 6℃ .	1. Charging may fail when battery temperature is below 6℃ . 2. Use the robot where ambient temperature is above 6℃ .
LiDAR is blocked.	LiDAR is blocked (for example the LiDAR protective cover is not removed).	1. Remove the lidar protective cover and then retry. 2. If lidar on the top of the robot is very dirty, clean it with a lint-free cloth and then retry.
LiDAR malfunction.	LiDAR is very dirty or there is a sensor error.	1. Check if the lidar is dirty. Clean it if necessary and then try again. 2. If you continue to encounter this error, try restarting the robot. 3. If the problem persists, please contact the after-sales service.
LiDAR is dirty.	LiDAR is dirty.	Wipe the LiDAR sensor on top of the robot with a clean cloth. Keep the LiDAR dry after cleaning.

Issue	Cause	Solution
LiDAR temperature is high.	LiDAR temperature is ≥ 80 ℃ .	1. The robot will automatically try to return to the charging station to cool down. 2. Ensure the robot operates at an ambient temperature below 40 ℃ . 3. Place the robot in a shaded, cool, and well-ventilated area. The alarm will stop when the temperature drops to a normal range. 4. The robot will automatically resume operation once the alarm stops. 5. If the problem persists, please contact after-sales service.
LiDAR temperature is too high.	LiDAR temperature is ≥ 90 ℃ .	1. The LiDAR is turned off due to high temperatures. 2. Ensure the robot operates at an ambient temperature below 40 ℃ . 3. Place the robot in a shaded, cool, and well-ventilated area. The alarm will stop when the temperature drops to a normal range. 4. If the problem persists, please contact after-sales service.
Robot is lost.	Positioning is lost.	1. Check if the LiDAR on the top of the robot is dirty. Dirt will affect the positioning. 2. Manually move the robot to an open place inside the map and try starting the task again. 3. If the positioning is not recovered, remote control the robot back to the charging station via the app, and then start the mowing task.
Sensor error.	Sensor error.	1. Restart the robot and retry. 2. If the problem persists, please contact the after-sales service.
The robot is in the no-go zone.	The robot is in the no-go zone.	1. Manually move the robot out of the no-go zone and then retry. 2. Remotely control the robot through the app to move it out of the no-go zone, and then retry.
The robot is outside the map.	The robot is outside the map.	1. Manually move the robot inside the map, and then retry. 2. Remote control the robot back inside the map via the app, and then retry.
Emergency stop is activated.	The Stop button on the robot is pressed.	Enter the PIN code on the robot and confirm.
Low battery. The robot will shut down soon.	Battery level is ≤ 10%.	Dock the robot in the charging station to charge.
The robot is away from the map. Risk of being stolen.	The robot is away from the map.	1. Enter the PIN code on the robot and confirm. 2. You can disable the Off-Map Alarm in Settings in the app.

Issue	Cause	Solution
Failed to return to the charging station.	The robot cannot find the charging station when returning to the charging station.	1. Check if there are obstacles blocking the robot. Remove the obstacles and retry. 2. Remote control the robot back to the charging station via the app.
Failed to dock in the charging station.	The robot finds the charging station but fails to dock.	1. Check if the reflective films on the station are dirty or blocked. 2. Check if there are obstacles in front of the station. 3. Check if the station is moved. 4. Check if the baseplate is covered with thick mud. 5. Check if the station is on a slope. 6. Check if the station has power. 7. Help the robot dock in the charging station by using the remote control or manually.
Positioning failed.	Positioning fails when the robot tries to start a mowing task.	1. The lidar may be obstructed. Manually move the robot to a flat and open place inside the map and try starting the task again. 2. If you continue to encounter this error, please retry after the robot is docked in the charging station.
Insufficient space for turning in front of the station.	Insufficient space for turning in front of the station.	1. If the station is placed at the edge of the map or within it, ensure there is at least 1 m of free space between the front area of the station's baseplate and the boundary of the map; otherwise, the robot may not be able to make turns. 2. Relocate the station, or change the map in Map Editing.
Path obstructed.	Path obstructed.	1. Check if a no-go zone is set in the path. 2. Check if there are obstacles blocking the robot. 3. If the robot still cannot pass, delete the path in Map Editing and set a new one.
The front camera is dirty.	The front camera is dirty.	Wipe the front camera with a clean cloth.
There is an issue with the front camera.	There is an issue with the front camera.	1. Wipe the front camera with a clean cloth. 2. Try restarting the robot. 3. If the problem persists, please contact the after-sales service.
Front camera blocked.	Front camera blocked.	Wipe the front camera with a clean cloth.
Boundary detection error occurs during Auto-Mapping.	Boundary detection error occurs during Auto-Mapping.	1. Ensure that the lighting conditions are suitable, neither too bright nor too dim. 2. Confirm that the weather is clear, avoiding fog or rain. 3. Ensure that the front camera is clean and unobstructed. 4. Ensure that the ground surface is even, as bumps may affect detection. 5. If boundary detection continues to fail, switch to remote control mode for mapping.

13 Specifications

Basic information	Product name	Dreame Roboticmower A2
	Brand	Dreame
	Model	MXXA8210
	Dimensions	643 × 436.5 × 261 mm
	Weight (battery included)	16.3 kg
Mowing	Recommended working capacity	3,000 m²
	Mowing efficiency	Standard: 1,000 m²/day Efficient: 2,000 m²/day
	Mowing height	30–70 mm
	Mowing width	22 cm
	Charging time [2]	65 min
Noise emissions	Sound power level LWA	54 dB(A)
	Sound power uncertainties KWA	3 dB(A)
	Sound pressure level LpA	46 dB(A)
	Sound pressure uncertainties KpA	3 dB(A)
Working condition	Operating temperature	0~50° C Recommended: 10~35° C
	Long-term storage temperature	-10~35° C Recommended: 0~25° C
	IP-classification	Robot: IPX6 Charging station: IPX4 Power supply: IP67
	Maximum slope for mowing area	50% (27°)
Connectivity	Bluetooth frequency range	2400.0–2483.5 MHz
	Max. RF Power	802.11b:16±2dBm(@11Mbps) 802.11g:14±2dBm(@54Mbps) 802.11n:13±2dBm(@HT20,HT40) Bluetooth： 7.49dBm
	Wi-Fi	Wi-Fi 2.4 GHz (2400–2483.5M)
	Link service [3]	LTE-FDD: B1/3/7/8/20/28A LTE-TDD: B38/40/41
	GNSS	GPS/GLONASS/BDS/Galileo/QZSS

Driving motor	Driving speed under remote control	0.45 m/s–0.8 m/s
	Driving speed when mowing	Standard: 0.35 m/s Efficient: 0.6 m/s
	Motor type	Hub motor
Cutting motor	Speed	2200/min
Battery (robot)	Battery model	MBPA10
	Battery type	Lithium-ion battery
	Rated capacity	5000 mAh
	Rated voltage	18 V DC
Power supply	Charger model	MPAA10
	Input voltage	100~240 V AC
	Output voltage	20 V DC
	Output current	3 A
Charging station	Charging station model	MCA10
	Input voltage	20 V DC
	Output voltage	20 V DC
	Input current	3 A
	Output current	3 A
Accessories	Spare blades and holders	81
	Blade model	MBKA10/MQBA10

[2] Charging time applies when the robot automatically returns to the charging station at low battery.
[3] Countries/Regions covered: Albania, Andorra, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Rep, Denmark, Estonia, Finland, France, Germany, Greece, Guernsey, Hungary, Iceland, Ireland, Italy, Kosovo, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malta, Moldova, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, UK, Ukraine.

Note: The specifications are subject to change as we continually improve our product. For the latest information, please visit our website at https://global.dreametech.com.