RV1L Pro

Dust Collection Robot Vacuum Cleaner Series

User Manual V1.0.0

Safety Precautions

Usage Restrictions

- Plastic bags can be dangerous. Keep them away from infants and children to avoid the risk of suffocation.
- This product is only meant to clean floors in a home environment. Do not use it outdoors (such as in an open balcony), on other non-floor surfaces (such as sofas), or in commercial or industrial settings.
- Do not use the product in a suspended environment (such as duplex buildings, open balconies, or on top of furniture) without guard rails.
- Do not use the product in temperatures higher than 40°C (104 °F) or lower than 0°C (32°F). Do not use the product if there is liquid or viscous substances on the floor.
- Ensure that cables are kept off the floor before using the robot to prevent cables from being dragged around when the device is working.
- Keep all fragile and miscellaneous items (such as vases or plastic bags) that are not on the floor to avoid obstruction of or collision with the device while it is working, which may result in damage of valuable items.
- Do not allow people with impaired physical, sensing or mental abilities, or people with insufficient experience and knowledge (including children) to use this product without guidance or supervision.
- Do not allow infants or children to use this product as a toy.
- Do not place the main brush cleaning tool within reach of children.
- Do not allow any body parts of humans or animals, including hair, fur, fingers, etc., to come close to the vacuum inlet of the device when the device is working.
- Do not use the product to clean flammable objects (such as lit cigarette butts).
- Do not use the product to vacuum hard or sharp objects (such as waste materials from renovation, glass, or nails).
- Do not use the cover of the laser radar, the top cover, or the collision buffer of the robot as carry handles for transporting the robot.
- Before cleaning and maintaining the product and the charging station, turn the robot off and unplug the station from the socket to disconnect the power supply. Do not submerge the device or the charging station in water or rinse them with water to clean them.
- Do not use a wet cloth or any liquid to wipe any part of this product.
- Do not use the mop module in a carpeted environment.
- Follow the instructions in the manual when using this product. The user is responsible for any loss or damage caused by improper use.

Battery and Charging

- Burning the product is prohibited even if it has been severely damaged, as doing so may cause explosions.
- Do not use any third-party batteries, chargers, or charging stations.
- Do not disassemble, repair, or modify batteries and the charging station.

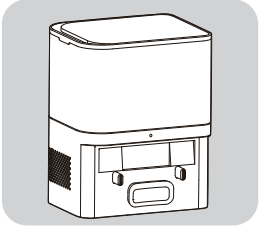
Battery and Charging

- Do not place the product near heat sources, such as radiators.
- Do not wipe or clean the charging clips with a damp cloth or wet hands.
- Do not dispose of batteries with your regular trash. Batteries should be disposed of by professional recycling agencies.
- If the power cord is damaged, it must be replaced by professionals from the manufacturer, the manufacturer's service department, or a similar department to avoid danger.
- If the product must be transported, ensure it is turned off. It is recommended that you use the original box packaging to transport.
- Do not pour water into the product or submerge it in water.
- If you are not using the product for a while, charge it fully, turn it off, and place it in a cool, dry area. Charge the robot at least once every three months to avoid damage to the battery.
- Use proper tools when removing the battery. First, remove the screws from the bottom cover. Then, open the bottom cover and unplug the battery from the terminal. Finally, remove the battery from the battery holder.
- The battery must be removed from the product before discarding it.
- The product must be powered off before removing the battery.

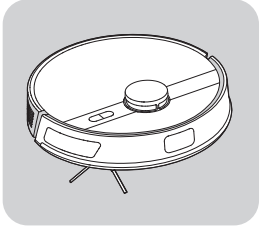
Class 1 laser product. The laser radar in this product conforms to the GB 7247.1-2012/IEC 60825-1:2014 safety standards for Class 1 lasers, and will not produce laser radiation harmful to the human body.

Package Contents

- Diagrams of products, accessories, user interfaces, and other items in the manual are schematic diagrams and are for reference only.
- The actual product may differ slightly from diagrams in the manual due to product updates and upgrades.
- The actual product shall prevail in case of any discrepancies.



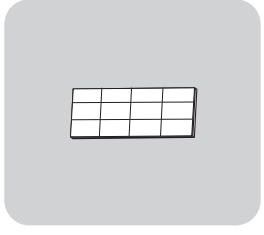
Charging Station × 1



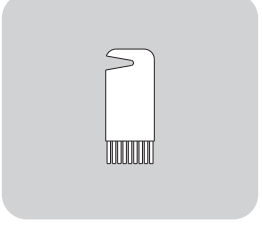
Robot × 1



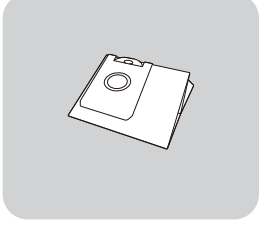
Side Brush × 2



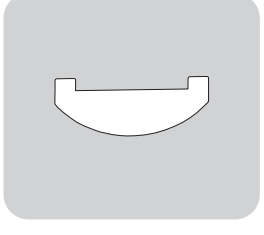
Filter × 1



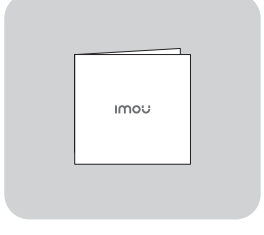
Cleaning Knife × 1



Power Adapter × 1



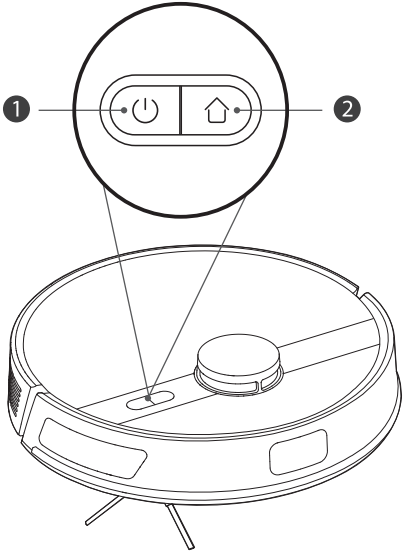
Mop Pad × 1

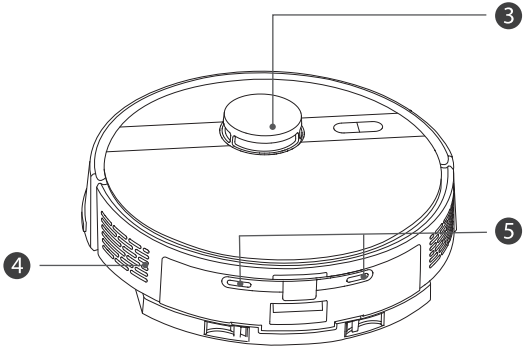


Quick Start Guide × 1

Overview

Robot Top View

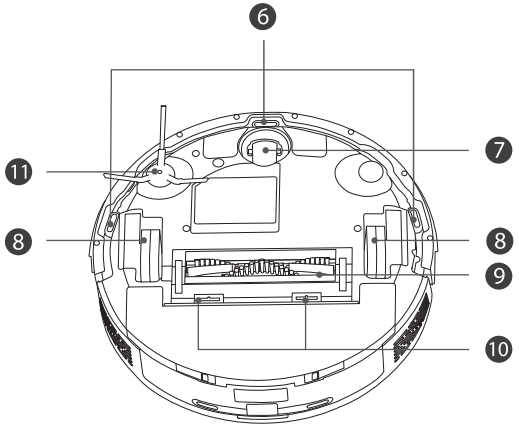




1. Power Button / Indicator Light
2. Recharge Button / Indicator Light
3. Laser Radar
4. Air Outlet
5. Charging Contacts

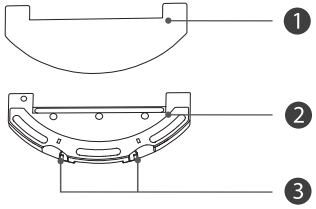
Overview

Robot Bottom View



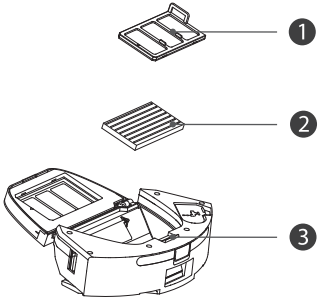
6. Cliff Sensors
7. Omnidirectional Wheel
8. Main Wheel × 2
9. Main Brush
10. Brush Guard Clips
11. Side Brush

Mop Assembly



1. Mop Pad
2. Mop Pad Plate
3. Guard Clips

Dust Box



1. Filter Cartridge
2. Hepa Filter
3. Dust Box Clip

Robot LED Indicator Patterns

LED Status		Device Status
	Solid on	Standby / cleaning / fully charged / under remote control
	Flashes slowly	Cleaning paused
	Loop flashing	Turning on / charging
	Flashes fast to off	Power off
	Flashes fast	Device malfunction
	Solid on	Return to recharge
	Flashes slowly	Returning to recharge paused
	Flashes fast to off	Resetting
	Flashes fast	OTA upgrade/switching voice prompt language
	Off	Do Not Disturb mode is on / the robot is powered off / LED indicator is turned off

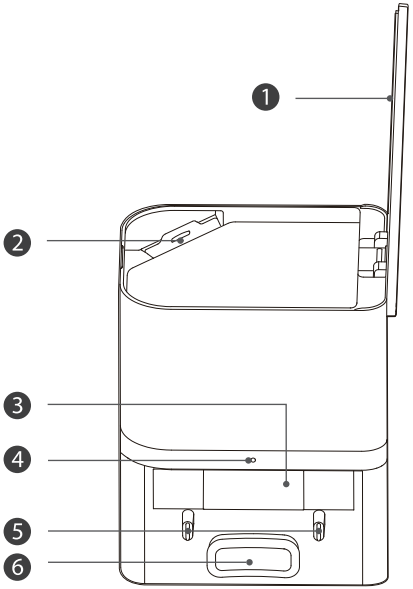
LED Indicator Patterns for Wi-Fi Connection

LED Status		Device Status
	Flashes slowly	Waiting for Wi-Fi connection / incorrect Wi-Fi password
	Flashes fast	Connecting to Wi-Fi network
	Lit for 3" to off	Wi-Fi network connected

Overview

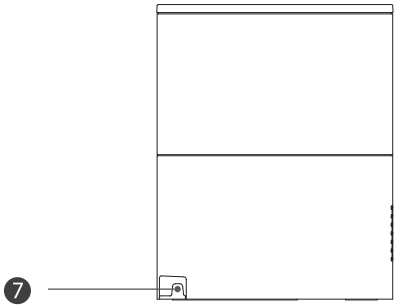
Dust Collection and Charging Station

Front View



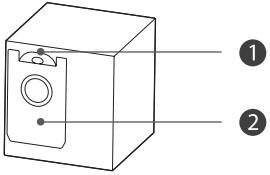
1. Upper Cover
2. Dust Bag Handle
3. Infrared Lens
4. LED Indicator
5. Charging Contacts
6. Dust Collection Inlet

Back View



7. Power Cord Slot

Dust Bag

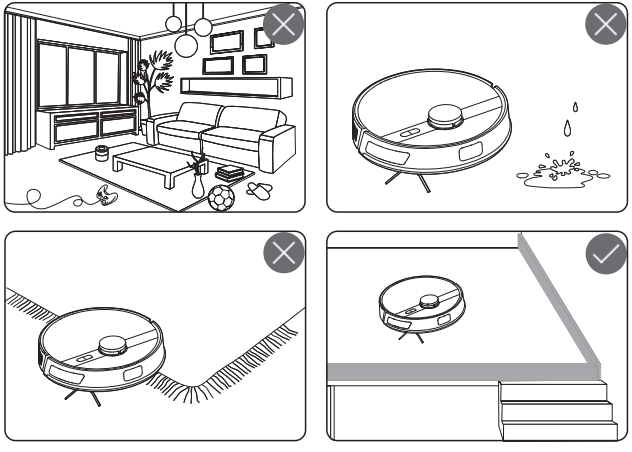


1. Dust Bag Handle
2. Dust Bag

Charging Station LED Indicator Patterns

LED Status		Device Status
	Solid on	Charging completed / standby mode
	Flashes 3 times	Power on
	Loop flashing	Charging
	Flashes slowly	Auto emptying dust box starts
	Solid on	Dust bag is not installed
	Flashes	Auto emptying dust box malfunctions / the dust bag is completely full

Notes Before Use



- Tidy up the area to be cleaned by putting away objects including plugs, cables, clothes and etc. on the floor.
- Fold the carpet tasseled edges under to improve the cleaning efficiency.
- Do not use the robot on wet surfaces or floor with standing water.
- Place physical barriers or set a "No-go" zone to prevent the robot from falling.

Preparations Before Use

Imou Life App

To enjoy all available features, it is recommended to control the robot on the Imou Life app.

- Please make sure that your mobile phone is connected to a **2.4 Ghz** Wi-Fi network.
- Ensure that the Wi-Fi password does not include **" "** or **spaces**.

Scan the QR code below or search for the "Imou Life" app in the App Store to download and install the app. After completing the app installation, please open the app, click on **"+"** in the top right corner of the home page, and scan the QR code on the robot or on the package box. Follow the in-app directions to add the robot.

Download on the App Store

GET IT ON Google Play

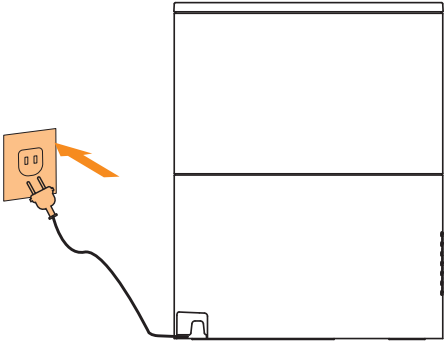
If your robot cannot connect to the app successfully, reset the Wi-Fi and add the robot again.

Restoring to Factory Settings

Press and hold ⏻ and ⌂ for 3 seconds. When ⏻ indicator light flashes white and ⌂ indicator light flashes orange to off, the robot will restart within 30 seconds. Then you will hear the voice prompt "Wi-Fi has been reset" and the device will be waiting for a network connection. Then follow the directions in the app to add the robot.

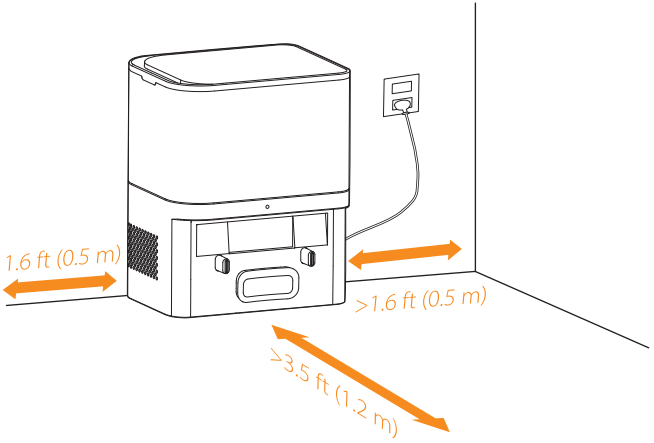
Installation and Use/Preparation

1 Connect the power cord to an electrical outlet

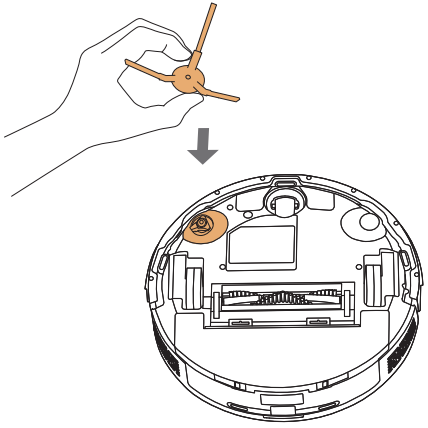


2 Place the Station

Place the station in a location that has strong and steady Wi-Fi signal.

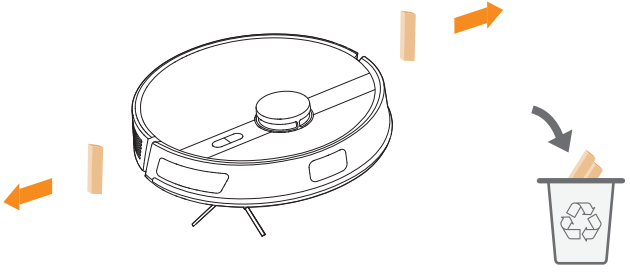


3 Install the side brush



4 Remove protective strips

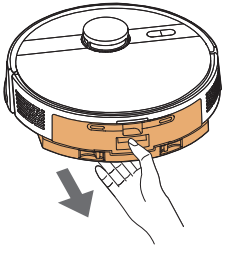
Place the robot on a level ground and remove the protective materials.



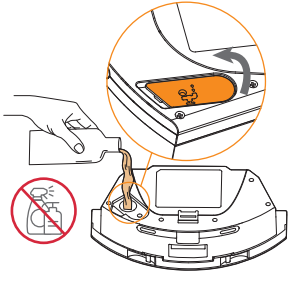
5 Add water

- Do not use any detergent or disinfectants.
- Tightly secure the rubber cap after adding water to prevent air entry.

a Take out the dust box.

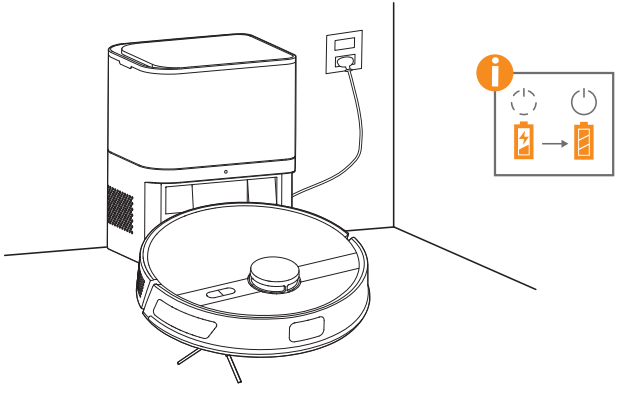


b Open the water tank cap and add clean water.



6 Fully charge the robot

Press ⌂ to recall the robot to the station for charging.
When the robot is fully charged, the ⏻ indicator on it is steady white.



Installation and Use/Instructions

1 On/Off

Press and hold ⏻ for 3 seconds to turn on or turn off the robot.

ⓘ The robot cannot be turned off while it is charging.

2 Start Cleaning

Press ⏻ to start global cleaning. The robot will create maps after its first cleaning based on its initial scan of the room. It will then clean each zone starting by alongside the walls and then proceed in a zig-zag pattern.

3 Automatic recharge/Manual recharge

- The robot will automatically return to the station to charge after cleaning is completed or if its battery is insufficient while cleaning.
- When the robot is cleaning, press ⏻ or ⌂ to pause cleaning, and then press ⌂ recall the robot to station for charging.

ⓘ The robot may fail to find the station if it does not start cleaning from the station. Place the robot on the station manually to recharge.

4 Turn off

When the robot is stationary, press and hold ⏻ for 3 seconds to turn the robot off. The power indicator will fast flash white to off.
If the robot becomes unresponsive or frozen, press and hold ⏻ for 10 seconds to force a shutdown.

5 Emptying

Auto emptying will automatically begins when the robot returns to the station after cleaning.

Regular Maintenance

To keep the device at best performance, please refer to the following maintenance frequencies.

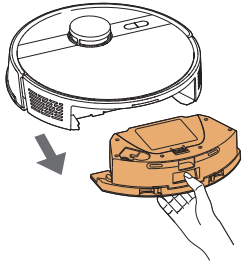
Please use a soft and clean cloth to wipe the parts, and avoid using any detergents or cleaning sprays.

Parts		Maintenance Frequency	Replacement Frequency
Robot	Infrared Lens	Once per month	/
	Laser Radar	Once per month	/
	Charging Contacts	Once per month	/
	Cliff Sensors	Once per month	/
	Main Brush	When necessary	After 240 hours of cleaning
	Side Brush	When necessary	After 150 hours of cleaning
	Mopping Cloth	When necessary	After 180 hours of cleaning
	Dust Box	When necessary	/
	Filter	When necessary	After 150 hours of cleaning
	Main Brush Guard	When necessary	After 200 hours of cleaning
	Water Tank	When necessary	/
Station	Charging Contacts	Once per month	/
	Infrared Lens	Once per month	/
	Dust Collection Inlets	Once per month	/
	Dust Bag	When necessary	When the according indicator lights up

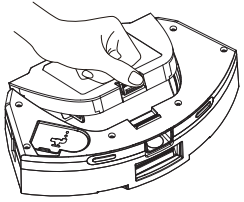
Regular Maintenance

Clean the Dust Box and the Filter

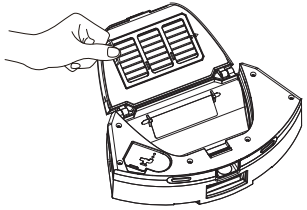
1 Press and hold the dust box release button, and pull the water tank out.



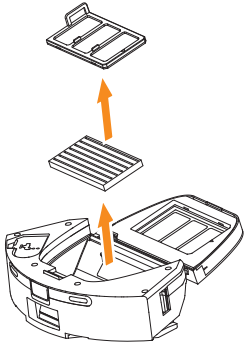
2 Pull the dust box catch to open the dust box.



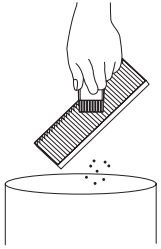
3 Remove the filter cartridge.



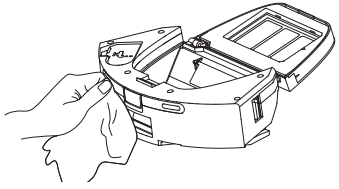
4 Remove the filter cartridge.



5 Use the cleaning brush to clean the filter and any debris on the filter cartridge.

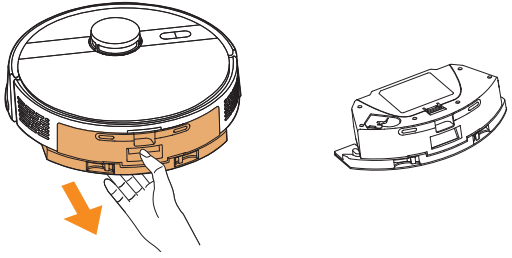


6 Use a dry cloth to clean the dust box. After the cleaning, wipe the dust box and dry the cloth.

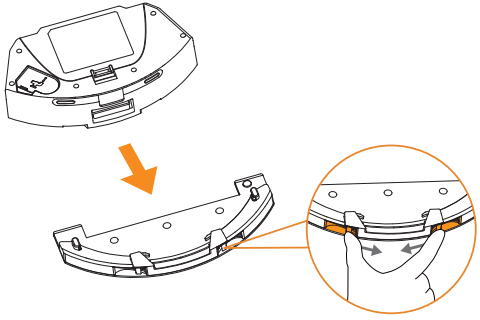


Clean the Mopping Pad

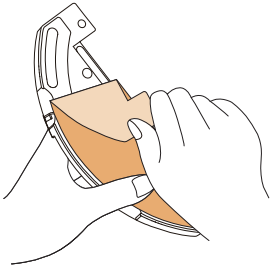
1 Take out the dust box.



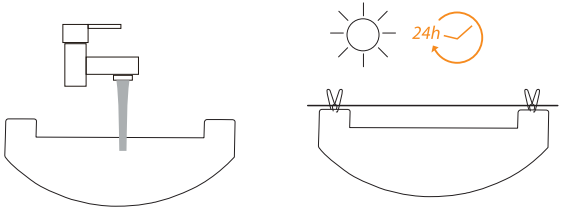
2 Press the clips to remove the mop pad holder.



3 Tear off the mop pad.

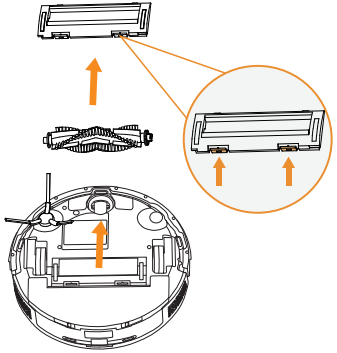


4 Wash the pad and dry it completely before reinstalling it.

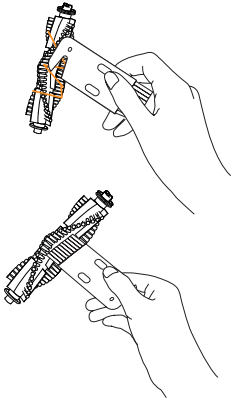


Clean the Main Brush

1 Press two catch simultaneously on the cover of the main brush. Then, remove the main brush cover and the main brush.



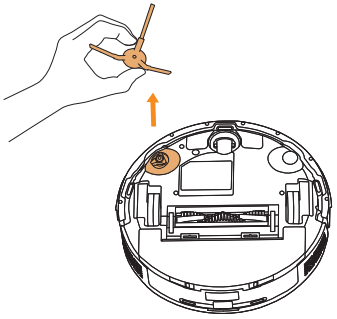
2 Cut entangled hairs and fur on the main brush using the small cleaning knife. Use the cleaning brush on the other end of the cleaning knife to clean the main brush.



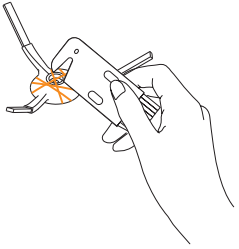
3 Reinstall the main brush and its cover. The cover is correctly fitted with a definitive click sound.

Clean/Replace the Side Brush

1 Remove the side brush.



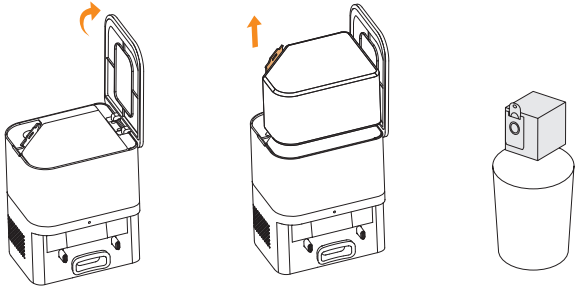
2 Clean the side brush.



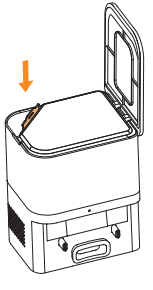
Replace the Dust Bag

When the dust bag is full, the indicator light on the station will flashing red like breathe and there will be a notification on the app. Replace the dust bag in a timely manner.

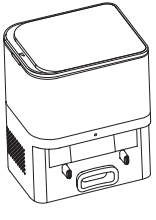
1 Pull up the dust bag handle and remove the dust bag



2 Install new dust bag

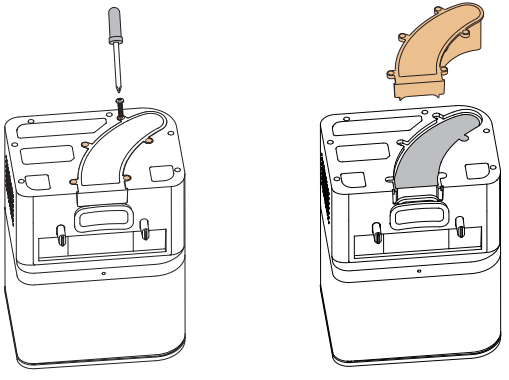


3 Close the top cover



Clean the Dust Channel

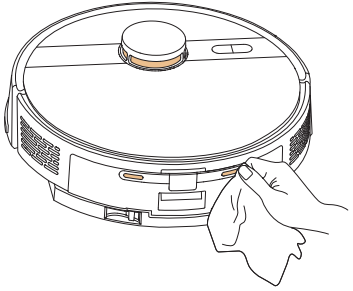
Unscrew the five screws and remove the cover. Wipe off any dust or dirt with a dry cloth. Re-assemble the dust channel the way it was prior to cleaning.



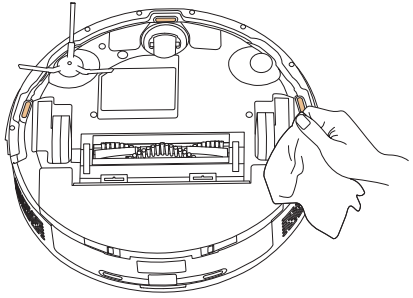
Maintain Other Components

Use a soft and clean cloth to wipe the parts, and avoid using any detergents or cleaning sprays.

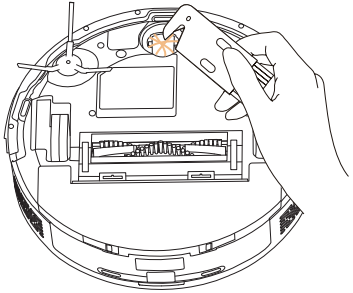
1



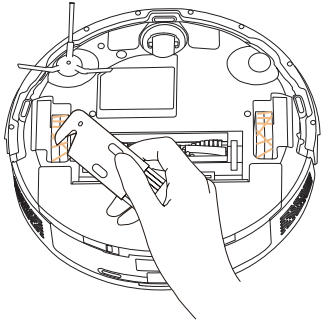
2



3

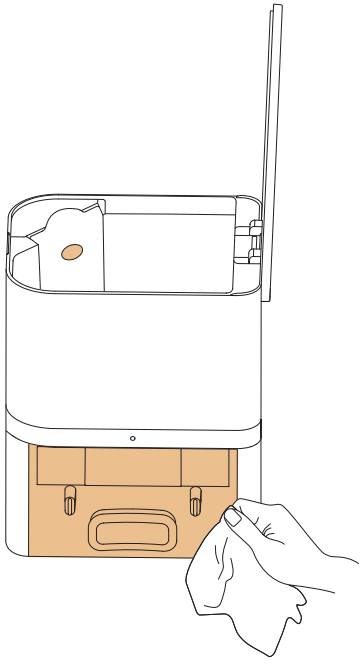


4



Maintain Other Components

5



Battery Maintenance

- The robot has an internal high-performance lithium-ion battery pack. Keep the robot charged on a day-to-day basis to maintain battery performance.
- If you are not using the device for a while, turn it off before storing it. Charge the device at least once every three months to avoid damage to the battery.
- It is recommended to change the battery after approximately 500 hours of cleaning to ensure an optimal performance.

Troubleshooting

When an abnormality occurs while the device is running, the power indicator light will flash red quickly. There will be voice prompts for some abnormalities. Refer to the table below for possible solutions.

Voice Prompts/Fault Description	Possible Reason	Solutions
Check if the radar is stuck	Laser radar is blocked or stuck	Remove obstacles, or move the device to a flat and open area, and restart it.
Check if the bumpers are stuck	Collision sensor is stuck	Clean and remove any foreign debris around the bumpers, or move the device.
Clean the cliff sensor. Then, start the unit after removing it from the danger area.	Cliff sensor is triggered after starting the device	Remove and clean the cliff sensor. Then, move it to a flat and open area before starting it.
Check if the main brush is stuck	Main brush is stuck	Clean the main brush or move the device.
Check if the side brush is stuck	Side brush is stuck	Clean the side brush or move the device.
Check if the main wheel is stuck	Main wheel is stuck	Clean the main wheel or remove the device.
Put back the water tank before restarting the device	Two-in-one water tank is removed	Install back the two-in-one water tank and filter while ensuring that they are installed in the right place.
The battery is insufficient. Start recalling the device to the station for charging.	Battery is insufficient while cleaning	The battery is insufficient. Charge the device before use.
Fan is abnormal	Fan is abnormal	Ensure that the air ducts, filter, and other relevant parts of the device are dry and free from water stains before attempting to turn off and restart the device.
Pressure on the top cover of the laser radar	Top cover on the radar is stuck	The laser radar is stuck or under pressure. Move the device to a new position and restart it.
Battery is damaged or has not been properly installed	Battery is abnormal while charging	The battery temperature is too high or too low. Wait until the battery temperature is normal before using it.
Unable to turn on	Battery level is low or ambient temperature is abnormal.	The battery is insufficient. Charge the device before use. Please use the device in temperatures between 0°C and 40°C.

Voice Prompts/Fault Description	Possible Reason	Solutions
Unable to charge the robot	1. The charging station unelectrified. 2. Dirty charging sensor. 3. Poor contact with the charging sensor.	1. Ensure that there is power flowing to the power cord of the charging station. 2. Clean the charging plates of the device and the charging sensor head of the charging station on a regular basis. 3. Exclude the possibility of poor contact caused by the side brush or other foreign objects. Try manually helping the robot back to the charging station.
Unable to return to the charging station to charge. Unable to locate the charging station.	The charging station is blocked or too far away.	Place the charging station in an open space. Place the robot near the charging station and try again.
Errors occur while cleaning	The main/side brush, or the main brush is entangled with foreign objects.	Clear the robot of foreign objects.
Decreased cleaning ability or dust falling out of the robot	The dust box is full, the filter is blocked, or the main brush is entangled.	Clean the dust box, filter, and main brush in a timely manner.
Unavailable scheduled cleaning mode	The battery is insufficient.	The robot will start the scheduled cleaning mode only when the remaining battery is more than 15%. So, keep ite charged all day.
Unable to connect to the app	The Wi-Fi network is abnormal. The Wi-Fi password is wrong. The app is abnormal. Have multiple Wi-Fi networks in the same home.	1. Ensure that the device is in an area with good Wi-Fi coverage. 2. Add up to five Wi-Fi networks via the Imou Life app to ensure the device maintains a consistent network connection throughout your home. 3. Update the app to the lastest version and try again.
No or little water discharged from the mop module	The water tank is out of water, the mop cloth is too dirty, or the mop holder is not installed in the right place.	Check if there is water in the tank. Wash the mop cloth. Install the mop cloth correctly according to the manuals. Check if the drain hole is clogged with foreign objects and pay attention to adding clean water without impurities.

Voice Prompts/Fault Description	Possible Reason	Solutions
Too much water discharged from the mop module	The cover of the water tank is not put in place or the water discharge is set to maximum.	Ensure that the cover of the water tank is installed in the right place. Adjust the right amount of water in the app. Fill the water tank and let it sit for a while to check if there is any breakage or leakage.
Insufficient battery during cleaning; device recharged but does not resume cleaning	The device is in “Do Not Disturb” mode or manually recharged to end the cleaning cycle.	Check on the app to ensure that the device is not in "Do Not Disturb" mode. Cleaning will not resume in this mode. The robot will not resume cleaning if you manually charge the unit or manually place the unit back in the dust collection charging station.
Does not return to the charging station after area cleaning or after being moved.	The device regenerates the map or the charging station is too far away.	The device will regenerate the map after area cleaning or being removed far away. If the charging station is too far away, the robot may not be able to automatically return to the station for charging, and you need to manually put the device back to the station for charging.
Dust collection failed	The dust bag is not installed or not installed in the right place so that the fan enables overheat protection or does not work properly	Install the dust bag correctly.
The dust bag is full or blocked	The dust bag is full or blocked	Change the dust bag and clean the dust collection charging station (vacuum inlet, dust channel, fan filter, etc.) in a timely manner.

