



Move on, ventures await



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Manufactured by: Moonstone Technology (Shaoxing) Co., Ltd.

Made in China



EU-A00

MOVA P50 Ultra

Robot Vacuum and Mop with
Auto-Empty and Mop Self-Cleaning
User Manual

The illustrations in this manual are for reference only. Please refer to the actual product.



MOVA



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Safety Information

EN

To avoid electric shock, fire or injury caused by improper use of the appliance, please read the user manual carefully before using the appliance and keep it for future reference.

Usage Restrictions

- This product should not be used by children younger than 8 years old nor persons with physical, sensory, intellectual deficiencies, or limited experience or knowledge without the supervision of a parent or guardian to ensure safe operation and to avoid any risks. Cleaning and maintenance shall not be performed by children without supervision.
- The appliance is only to be used with the power supply unit provided with the appliance.
- This appliance contains batteries that are only replaceable by skilled persons.
- Clear the area to be cleaned. Children shall not play with the appliance. Ensure children and pets are kept at a safe distance from the robot while it is operating.
- Do not install, charge or use the appliance in the bathrooms or around the pools.
- This product is for floor cleaning in a home environment only. Do not use it outdoors, on non-floor surfaces, or in a commercial or industrial setting.
- Ensure that the appliance operates correctly in a proper environment. Otherwise, do not use the appliance.
- If the power cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.

Safety Information

Usage Restrictions

- Do not use the robot in an area suspended above ground level without a protective barrier.
- Do not place the robot upside down. Do not use the LDS cover, robot cover, or bumper as a handle for the robot.
- Use the robot in environments with an ambient temperature above 0°C and below 40°C. Make sure there is no liquid or sticky substance on the floor.
- To prevent damage or harm from dragging, clear any loose objects from the floor, and remove cables or power cords on the cleaning path before operating the appliance.
- Remove fragile or small items from the floor to prevent the robot from bumping into and damaging them.
- Keep hair, fingers, and other body parts away from the suction opening of the robot.
- Do not operate the appliance in a room where an infant or child is sleeping.
- Do not place children, pets, or any item on top of the robot regardless of whether it is stationary or moving.
- Only clean water and the officially-approved cleaning solution can be added to the clean water tank. Do not add any other liquid such as alcohol or disinfectant. The ratio of the cleaning solution to clean water can be checked on the cleaning solution bottle. Keep the cleaning solution out of reach of children.
- Do not use the robot to clean any burning objects. Do not use the robot to pick

Safety Information

Usage Restrictions

- up flammable or combustible liquids, corrosive gases, or undiluted acids or solvents.
- Do not vacuum hard or sharp objects. Do not use the appliance to pick up objects such as stones, large pieces of paper or any item that may clog the appliance.
- Plug must be removed from the socket-outlet before cleaning or maintaining the appliance.
- Do not wipe the robot or the base station with a wet cloth or rinse them with any liquid. After cleaning washable parts, fully dry the parts before reinstalling and using them.
- Please use this product in accordance with the instructions in the User Manual. Users are responsible for any loss or damage that arise from improper use of this product.

Batteries and Charging

- Do not use any third-party battery or base station. The robot can only be used with the model RCPE0105 base station.
- Do not attempt to disassemble, repair, or modify the battery or the base station on your own.
- Do not place the base station near a heat source.
- Do not use a wet cloth or wet hands to wipe or clean the base station's charging contacts.

Safety Information

Batteries and Charging

- Do not improperly dispose of old batteries. Unneeded batteries should be discarded at an appropriate recycling facility.
- If the power cord becomes damaged or broken, stop using it immediately and contact after-sales service.
- Make sure the robot is turned off when being transported and kept in its original packaging if possible.
- If the robot will not be used for an extended period of time, fully charge it, then turn it off and store it in a cool, dry place. Recharge the robot at least once every 3 months to avoid over-discharging the battery.

Laser Safety Information

- The laser sensor in this product meets the IEC 60825-1:2014/EN 60825-1:2014/A11:2021 Standard for Class 1 laser products. Please avoid direct eye contact with it during use.

CLASS 1 LASER PRODUCT
CONSUMER LASER PRODUCT
EN 50689:2021



For indoor use only

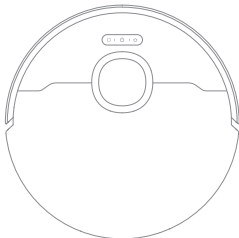


Read operator's manual

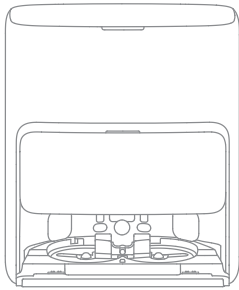
Hereby, Moonstone Technology (Shaoxing) Co., Ltd. declares that the radio equipment type RLP23SE is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.mova-tech.com
For detailed e-manual, please go to <https://www.mova-tech.com/pages/user-manuals-and-faqs>

Product Overview

Package Contents

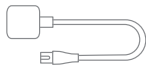


Robot



Base Station

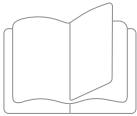
Other Accessories



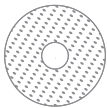
Power Cord



Base Station Ramp
Extension Plate



User Manual



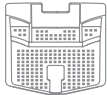
Mop Pad × 2
(pre-installed)



Mop Pad
Holder × 2

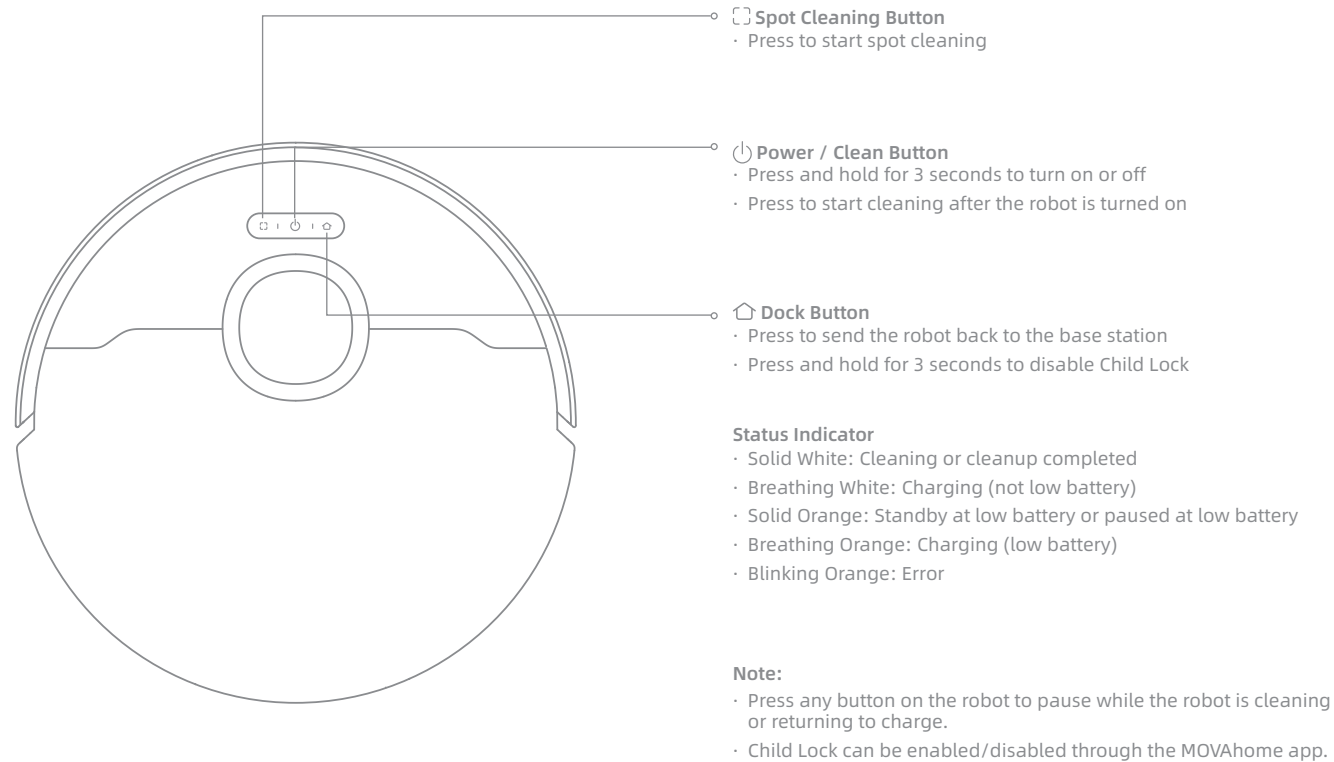


Dust Bag
(pre-installed)



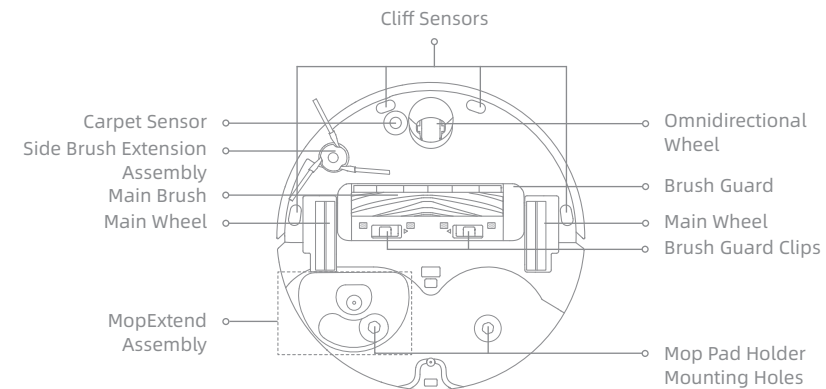
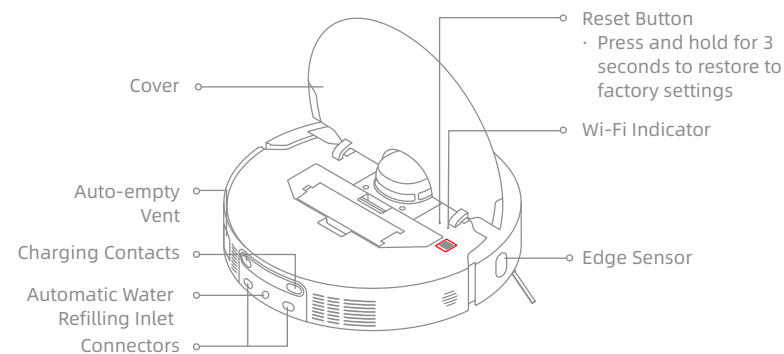
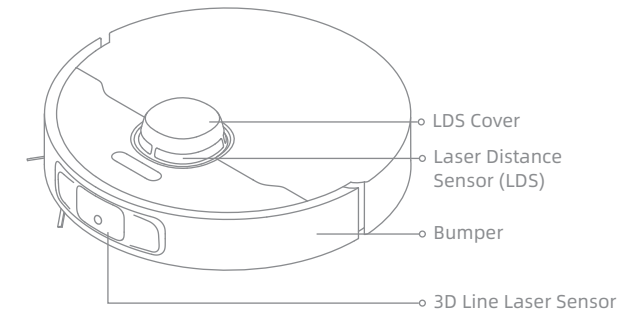
Washboard Filter
(pre-installed)

Robot

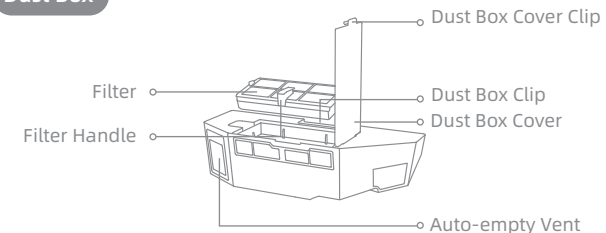


Product Overview

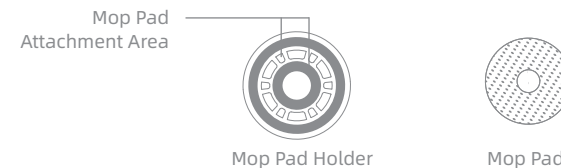
Robot and Sensors



Dust Box

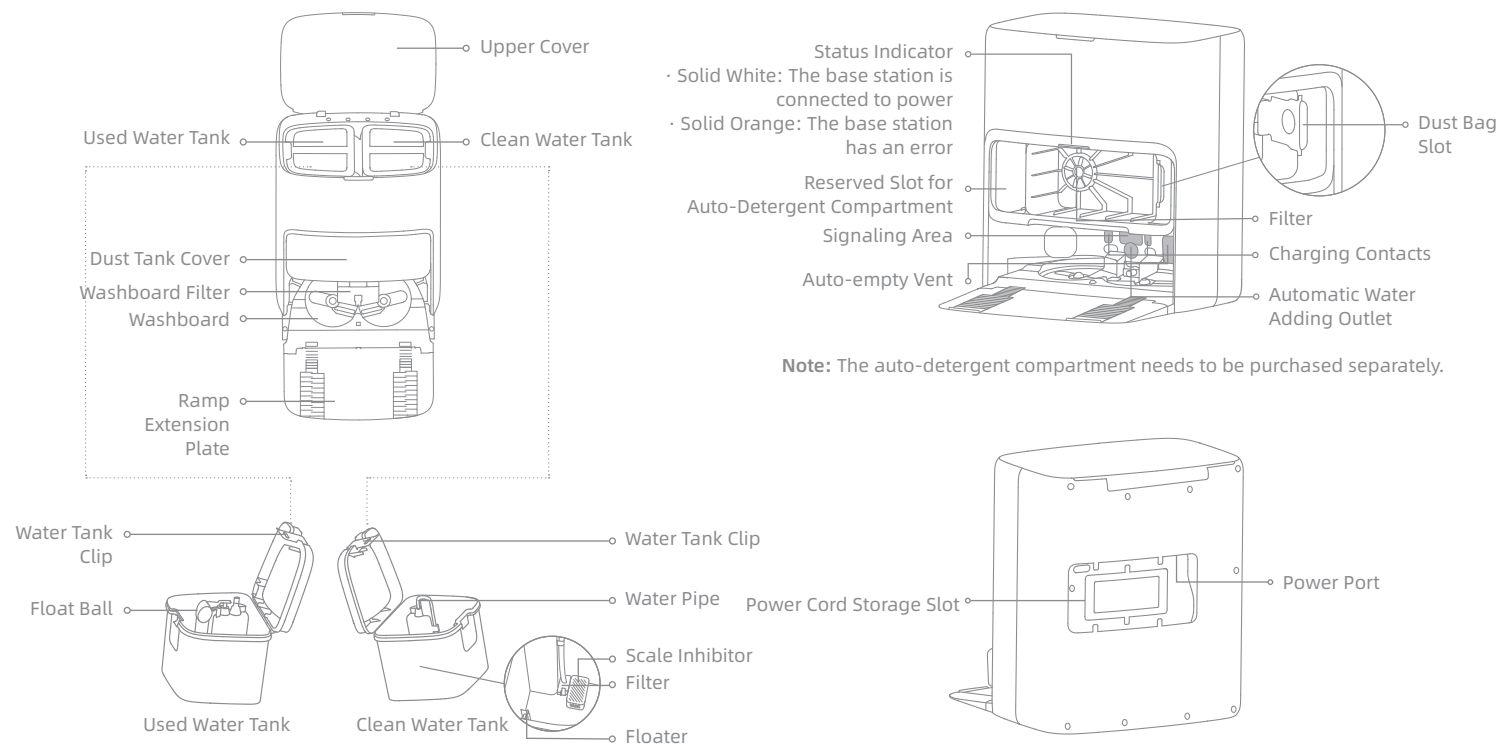


Mop Assembly

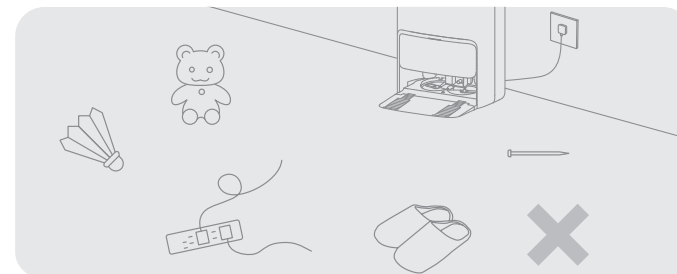


Product Overview

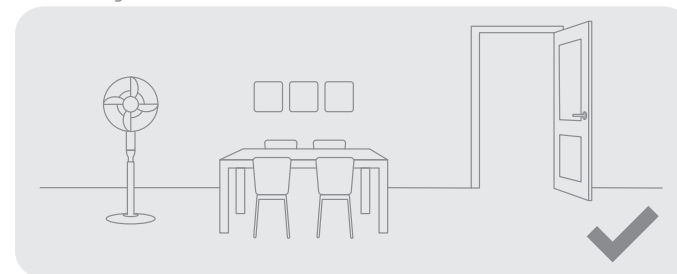
Base Station



Preparing Your Home



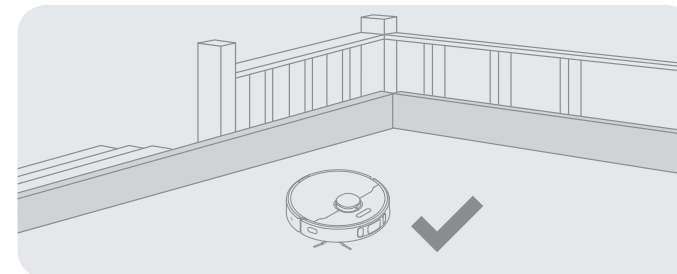
Before cleaning, please move away unstable, fragile, valuable or dangerous items, and clean up cables, cloths, toys, hard objects and sharp objects on the ground to avoid being entangled, scratched or knocked over by the robot and causing losses.



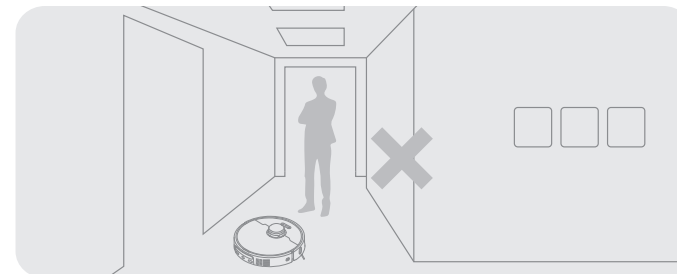
Open the door of the room to be cleaned, and put the furniture in its proper place to leave more space.

Note:

- When operating the robot for the first time, follow it around while cleaning to remove any potential obstacles in time.
- Do not vacuum hard objects like stones, steel balls and toy parts, or sharp objects like construction waste, broken glass and nails, otherwise the ground may be scratched.



Before cleaning, place a physical barrier at the edge of the stairs to ensure the secure and smooth operations of the robot.

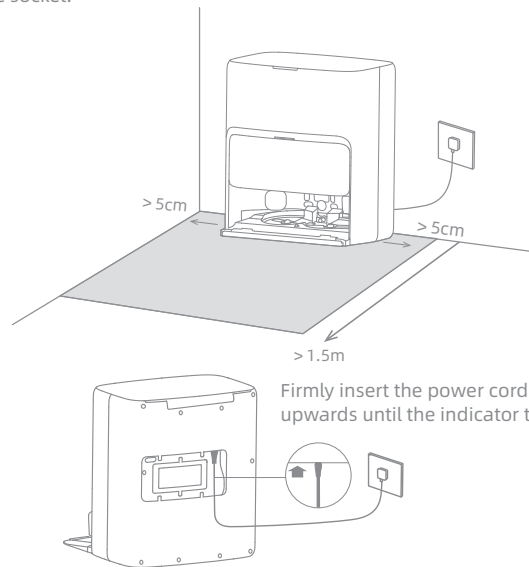


To prevent the robot from not recognizing areas that need to be cleaned, do not stand in front of the robot, threshold, hallway, or narrow places.

Before Use

1. Place the Base Station and Connect to an Electrical Outlet

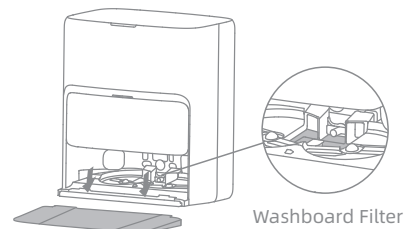
Place the base station in a location that is as open as possible with a good Wi-Fi signal. Leave enough space as shown in the figure and remove any objects in the shaded area. Insert the power cord into the base station and plug it into the socket.



Note:

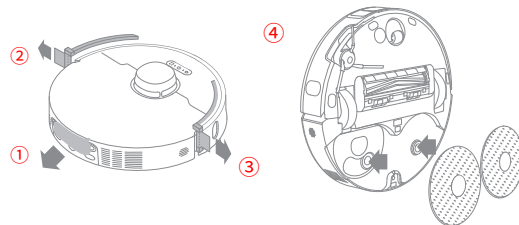
- Make sure that no objects might block the signaling area.
- To prevent water stains from wetting wood floors or carpets, placing the base station on tile floors or marble floors is recommended.

2. Install the Ramp Extension Plate




Note: Ensure the washboard filter is installed into place.

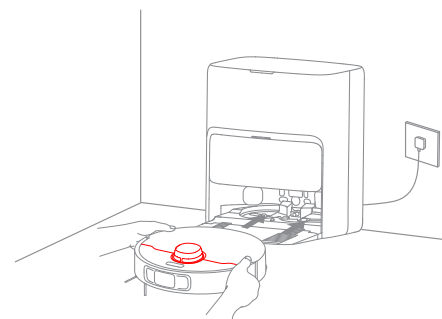
3. Remove Robot Protections and Install the Mop Assembly



Before Use

4. Connect the Robot to the Base Station

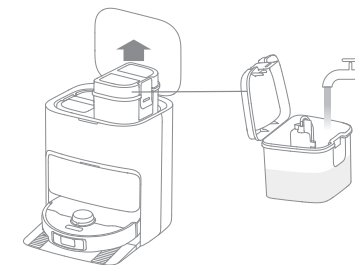
Press and hold the button  on the robot for 3 seconds to turn it on. Place the robot onto the base station with the mop assembly facing toward the washboard. Then you will hear a voice notification when the robot successfully connects to the base station. After the robot is fully charged, the status indicators on the robot and the base station will remain lit for 10 minutes and then dim.



Note: It is recommended to fully charge the robot before its first use. When the robot cannot be turned on after the battery is depleted, manually connect the robot with the station to charge it.

5. Add Water to the Clean Water Tank

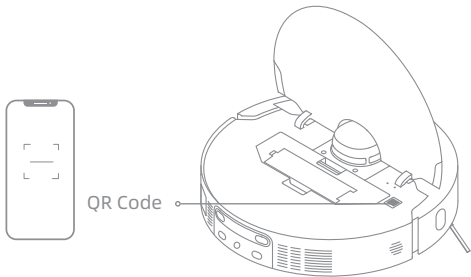
Take out the clean water tank from the base station and fill up the tank with clean water. Then install it back into the base station.



Note: Do not add hot water into the water tank, as this may cause the tank to become deformed.

1. Download the MOVAhome App

Scan the QR code on the robot or search "MOVAhome" in the app store to download and install the app.

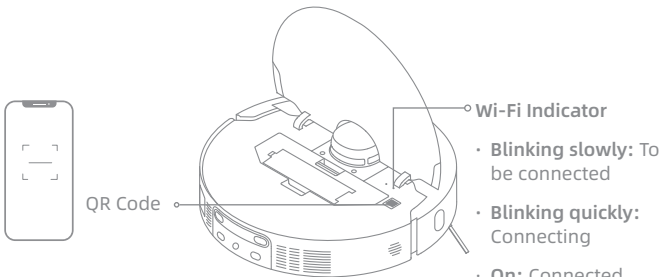


- Note:**
- Only 2.4 GHz Wi-Fi is supported.
 - Due to upgrades in the app software, the actual operations may differ from the directions in this manual. Please follow the instructions based on the current app version.

2. Add Device



Open the MOVAhome App, tap "Scan QR code to connect", and scan the same QR code on the robot again to add the device. Please follow the prompts to finish the Wi-Fi connection.

Note: To reset Wi-Fi, repeat step 2 and then follow the prompts to finish the Wi-Fi connection.



How to Use

Turn On/Off

Press and hold the button  for 3 seconds to turn on the robot. The power indicator should be illuminated. Place the robot onto the base station, the robot should turn on automatically and begin charging. To turn off the robot, move the robot away from the base station and press and hold the button  for 3 seconds.

Fast Mapping

After configuring the network for the first time, follow the instructions in the app to quickly create a map. The robot will start mapping without cleaning. When the robot returns to the base station, the mapping process has been completed and the map will be saved automatically.

Pause/Sleep

When the robot is running, press any button to pause it. If the robot is paused for more than 10 minutes, it automatically enters sleep mode. All indicators on the robot will turn off. Press any button on the robot, or use the app to wake up the robot.

Note: If the robot is paused and placed onto the base station, the current cleaning process will end.

Auto Resume Cleaning

If the battery is too low, the robot will automatically return to the base station to charge. After charging to the appropriate battery level, it will resume unfinished cleaning tasks.


Note: To use this function, please enable it in the app.

Do Not Disturb (DND) Mode



When the robot is set to the Do Not Disturb (DND) mode, the robot will be prevented from resuming cleaning. The DND mode is disabled by default at the factory. You can use the app to enable the DND mode or modify the DND period. The DND period is 22:00-8:00 by default.

- Note:**
- The scheduled cleaning tasks will be performed as usual during the DND period.
 - The robot will resume cleanup where it left off after the DND period expires.

Spot Cleaning

When the robot is on standby, press briefly the button  to enable the spot cleaning mode. In this mode, the robot cleans a square-shaped area of 1.5 × 1.5 meters around it and returns to its starting point once the spot cleaning is completed.

Robot Restarting


If the robot stops responding or cannot be turned off, press and hold the button  for 10 seconds to forcefully turn it off. Then, press and hold the button  for 3 seconds to turn the robot on.

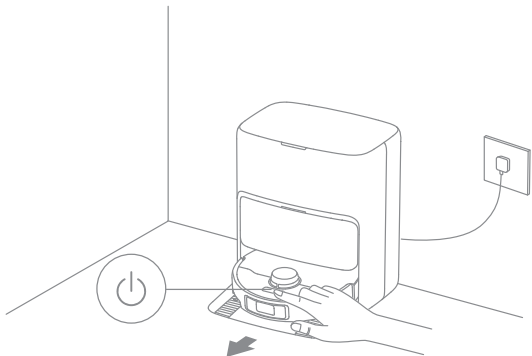
How to Use

Vacuum and Mop

Note: When using the mop assembly for the first time, the robot performs the "Vacuum and Mop" task by default.

1. Start cleaning

Press the button  on the robot, or use the app to make the robot start from the base station. Then the robot will plan the optimal cleaning route and perform the cleaning task based on the created map.

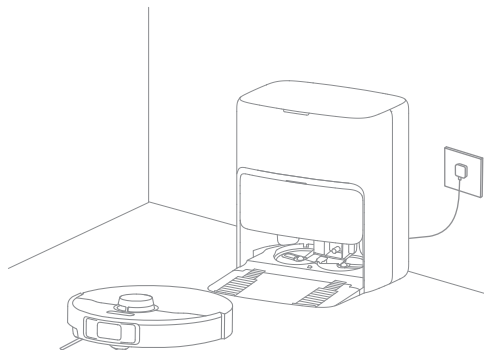


Note:

- To ensure the robot easily returns to the base station after cleaning, it is recommended to make the robot start from the base station.
- The mop pads will be cleaned before the robot starts mopping, please wait patiently.
- Do not move the base station, the clean water tank, the used water tank, or the washboard filter during operation.
- Hot water cleaning can be enabled in the app for mop pad, which applies to all modes. To prevent scalding, do not touch the water outlet when the function is on.

2. Auto mop washing

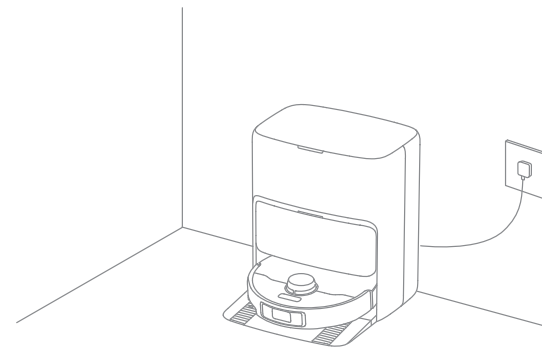
When cleaning, the robot will automatically return to the base station to wash mop pads based on the mop pad cleaning frequency specified in the app. The base station will automatically refill the robot's water tank and the robot will resume cleanup.



How to Use

3. Automatically empty the dust box and wash and dry the mop pads

After the robot finishes a cleaning task and returns to the base station to charge, the base station will automatically start emptying the dust box. Then it will wash and dry the mop pads.



Note:

- If the auto-empty function is turned off in the app, the base station will not automatically empty the dust box.
- The base station will empty the dust box according to the setting in the app.

4. Clean the used water tank

After the robot has completed its task, please clean the used water tank to prevent any odor.

Mop after Vacuuming

Enable the mopping after vacuuming function in the app, and the robot will automatically lift the mop assembly to vacuum the floor. After vacuuming is completed, the robot will return to empty the dust box and then start mopping after lowering the mop assembly and raising the side brush.

Vacuum Only

Enable the vacuuming function in the app, and the robot will automatically lift the mop assembly and start vacuuming.

Mop Only

Enable the mopping function in the app, and the robot will check if the mop assembly is installed. If not, manually install the mop assembly, and then the robot will automatically start mopping after raising the side brush.

Routine Maintenance

Parts

To keep the robot in good condition, it is recommended to refer to the accessory usage in the app or the following table for routine maintenance.

Part	Maintenance Frequency	Replacement Period
Used water tank	After each use	/
Clean water tank	Once every 2 weeks	
Main brush		Every 6 to 12 months
Dust box's filter		Every 3 to 6 months
Side brush		
Mop pad holder		/
Washboard filter	Once every 1 to 2 months	/
Base station's signaling area	Once every month	/
Charging contact		
Auto-empty vent		
Omnidirectional wheel		
Edge sensor		
Laser Distance Sensor (LDS)		
3D line laser sensor		

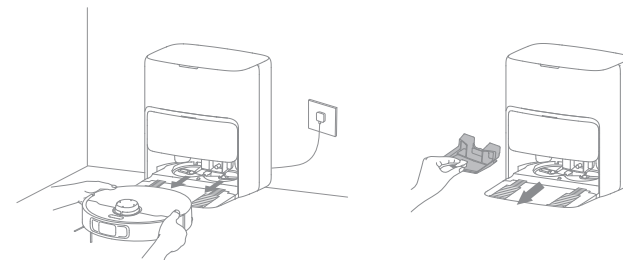
Part	Maintenance Frequency	Replacement Period
Carpet sensor	Once every month	/
Cliff sensor		
Bumper		
Robot's automatic water refilling inlet		
Bottom of the robot		
Dust box	Clean it as needed	
Dust bag	/	Every 2 to 4 months
Mop pad		Every 1 to 3 months
Scale inhibitor		Every 18 to 36 months

Note: The replacement frequency will depend on your usage of the robot. If an exception occurs due to special circumstances, the parts should be replaced.

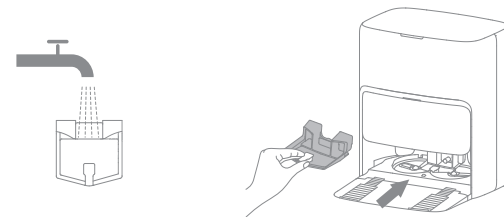
Routine Maintenance

Washboard Filter

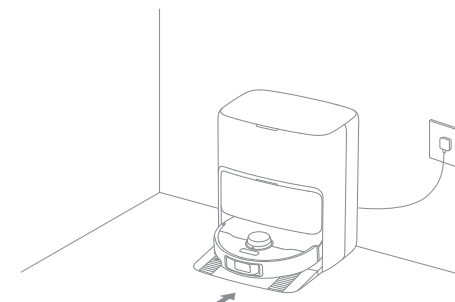
1. Take out the robot and remove the washboard filter after the mop pad cleaning is complete.



2. Rinse the washboard filter with clean water, wipe it clean, and then reinstall it in the washboard.



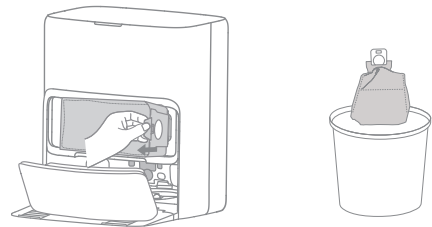
3. Use the app or press the button  to return the robot to the base station, or manually put the robot back.



Routine Maintenance

Dust Bag

1. Remove the dust tank cover and discard the dust bag.

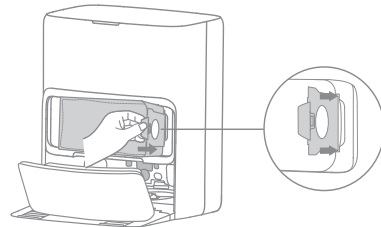


Note: Pulling outwards on the handle will seal the bag to prevent the dust and debris from accidentally falling out.

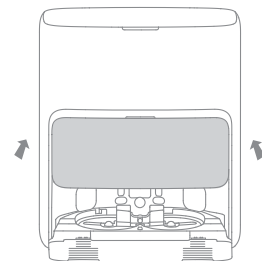
2. Remove the dust and debris from the filter with a dry cloth.



3. Install a new dust bag.



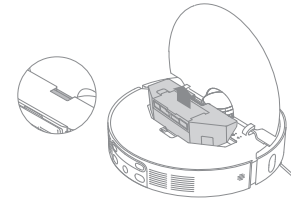
4. Reinstall the dust tank cover.



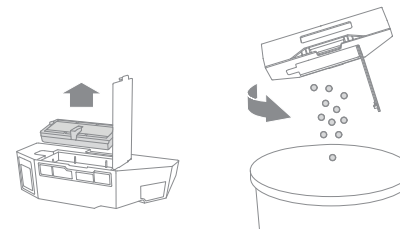
Routine Maintenance

Dust Box and Filter

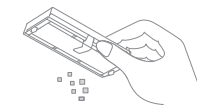
1. Open the robot cover and press the dust box clip to remove the dust box.



2. Open the dust box cover, remove the filter, and then empty the dust box as shown in the figure.

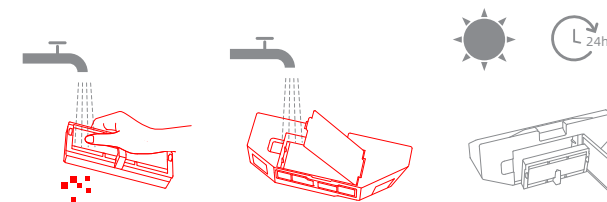


3. Gently tap the basket of the filter to remove the dirt.



Note: Do not attempt to clean the filter with a brush, a finger or sharp objects to prevent damage.

4. Rinse the dust box and filter with water and dry them completely before reinstalling.



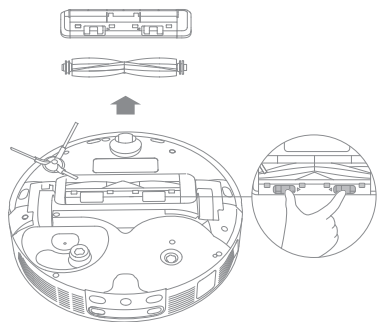
Note:

- Rinse the dust box and filter with clean water only. Do not use any detergent.
- Use the dust box and filter only when they are completely dry.

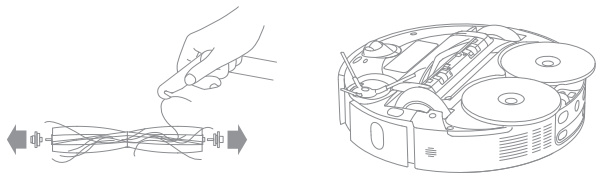
Routine Maintenance

Main Brush

1. Press the brush guard clips inwards to remove the brush guard and lift the brush out of the robot.

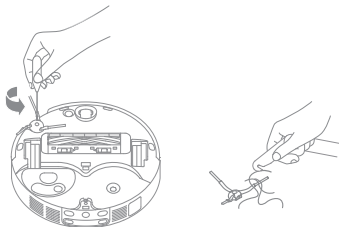


2. Pull out the brush covers at both ends of the brush as shown in the figure. Use a proper cleaning tool to remove any hair tangled in the brush. Reinstall the brush covers on both ends of the brush, and then reinstall the brush. Press on the brush guard to lock it in place.

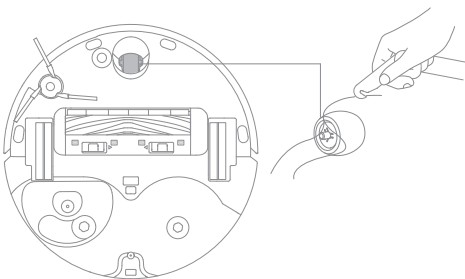


Side Brush

Unscrew the side brush with a screwdriver, clean the hair from the brush, and then screw it back on.



Omnidirectional Wheel



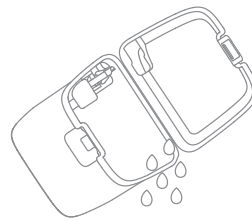
Note:

- Use a tool such as a small screwdriver to separate the axle and tire of the omnidirectional wheel. Do not use excessive force.
- Rinse the omnidirectional wheel under the running water and put it back after drying it completely.

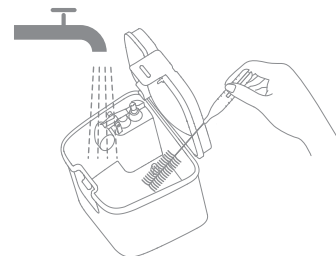
Routine Maintenance

Used Water Tank

1. Remove the used water tank, open its cover and pour out the used water.



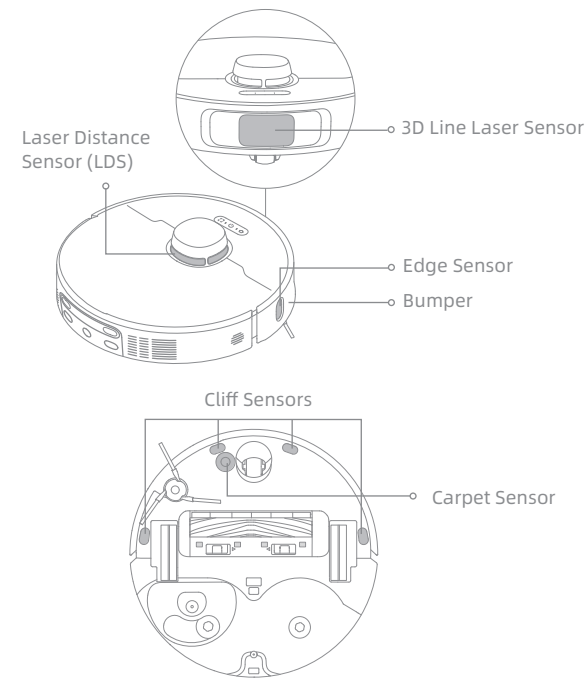
2. Rinse the used water tank with clean water, and use a proper cleaning tool to clean the inner wall of the used water tank.



Note: The float ball in the used water tank is a movable part. Do not apply too much force when cleaning it to avoid damaging it.

Robot Sensors

Wipe the robot sensors by using a soft and dry cloth, as shown in the below figure:

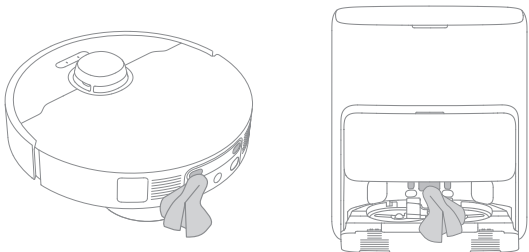


Note: A wet cloth can damage sensitive elements within the robot and the base station. Please use a dry cloth for cleaning.

Routine Maintenance

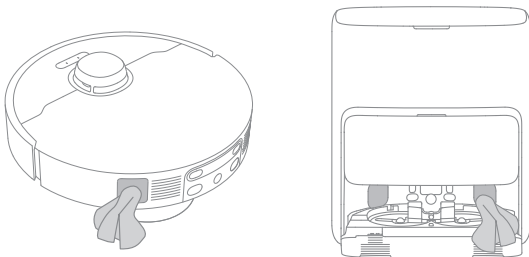
Charging Contacts and Signaling Area

Clean the charging contacts and the signaling area with a soft and dry cloth.



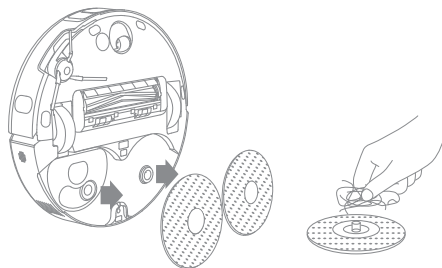
Auto-empty Vents

Clean the auto-empty vents of the robot and the base station with a soft and dry cloth.



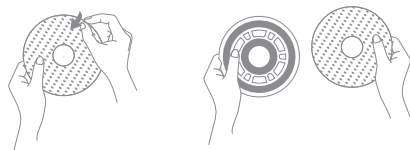
Mop Pad Holder

Remove and clean the mop pad holders.



Mop Pad



Remove the mop pad from the mop pad holder to replace it.




Battery

The robot contains a high-performance lithium-ion battery pack. Make sure that the battery remains well-charged for daily use to maintain optimal battery performance. If the robot is not used for an extended period of time, turn it off and put it away. To prevent damage from over-discharging, charge the robot at least once every three months.

Troubleshooting

Problem	Solution
The robot will not turn on.	The battery is low. Recharge the robot on the base and try again. The temperature of the battery is too low or too high. It is recommended to operate the appliance at a temperature above 0°C (32°F) and below 40°C (104°F).
The robot will not charge.	The base station is not connected to power, please make sure both ends of its power cord are correctly plugged in. The contact between the charging contacts on the base station and the robot is poor, please clean the charging contacts. Check whether there is any foreign object at the connector of the robot and remove the foreign object if any.
The robot fails to connect to Wi-Fi.	The Wi-Fi network password is incorrect. Make sure the password used to connect to your Wi-Fi network is correct. The robot does not support a 5 GHz Wi-Fi connection. Make sure the robot is connected to a 2.4 GHz Wi-Fi connection. The Wi-Fi signal is weak. Make sure the robot is in an area with good Wi-Fi coverage. The robot may not be ready to be configured. Please exit and re-enter the app, and then try again as instructed.
The robot cannot find and return to the base station.	The base station is disconnected from power or moved when the robot is not on it. Please connect the base station to the power supply or place the robot onto the base station to charge. There are too many obstructions around the base station. Place the base station in a more open area. Moving the robot may cause it to re-position itself, and it will recreate a map if re-positioning fails. If the robot is too far from the base station, it might not be able to automatically return on its own, in which case you will need to manually place the robot onto the base station. Wipe the signaling area on the base station to remove dust or debris.
The robot gets stuck in front of the base station and cannot return to it.	Check whether there is enough space on both sides or in front of the base station to prevent the robot from being blocked. The route for returning to charge is blocked, e.g. the door is closed. The robot may slip if the floor in front of the base station is overly wet. If so, clean the excess water before trying again. It is recommended to move the base station to a different place and try again. Make sure the ramp extension plate is installed properly.
The robot will not turn off.	The robot cannot be turned off when it is charging. It is recommended to move the robot from the base station, and then press and hold the button  for 3 seconds to turn it off. If the robot cannot be turned off by performing step 1, press and hold the button  for 10 seconds to forcibly turn off the robot. If the problem persists, please contact after-sales service.

Troubleshooting

Problem	Solution
The charging speed is slow.	It takes about 3.5 hours to fully charge the robot when its battery is low. If you operate the robot at temperatures outside of the specified range, the charging speed will automatically slow down to extend the battery life. The charging contacts on both the robot and the base may be dirty, please wipe them with a dry cloth.
The noise increases while the robot is operating.	Check whether the dust box filter is clogged. If so, clean it or replace it. A hard object may be caught in the main brush or the dust box. Check and remove any hard object. The main brush or the side brush may become tangled. Check and remove any foreign objects. Switch the suction mode to Standard or Quiet.
The robot moves without following the set route.	Objects such as power cords and slippers should be organized before using the robot. Working on wet slippery surfaces causes the main wheel to slip. It is recommended to dry the wet places before using the robot. Wipe the 3D line laser sensor on the robot with a clean, soft cloth to keep it clean and unobstructed.
The robot misses the rooms to be cleaned.	Make sure that the doors of the rooms to be cleaned are open. Check whether there is a threshold higher than about 2 cm at the door of the room. The robot cannot climb over high thresholds or steps. The place in front of the room to be cleaned may be wet and slippery, causing the robot to slip and work abnormally. Please try drying the floor before using the robot.
The robot will not resume cleaning after charging.	Make sure that the robot is not set to the Do Not Disturb (DND) mode, which will prevent it from resuming cleaning. The robot will not resume cleaning after you manually place the robot on the base station or send the robot to charge via the app or the button  .

Troubleshooting

Problem	Solution
The station cannot automatically empty the dust box.	Check whether the dust bag in the dust tank is full. If the dust bag is not full, check whether there is any obstruction at the auto-empty vents of the robot, the base station, or the dust box. If any, clean the blocked part in time.
The water level in the washboard is abnormal.	Check whether the seal on the used water tank is loose or not correctly installed, and manually reset it if so. If the problem persists, please contact the after-sales service team. Gently press down on the used water tank to make sure it is installed correctly. Remove the washboard filter and check whether the sewage drain is blocked and clean it. Check the cleaning solution. Do not add any liquid other than the officially-approved cleaning solution.
The mop pad holder is raised abnormally.	Please remove the mop pad holder to check if there is any foreign object stuck in it, and try to restart the robot. If the problem persists, please contact the after-sales service team.
There is water under the clean water tank or around the seal.	When taking out the clean water tank, some water in the pipe may be left under the tank or around the seal. This is normal. Please wipe with a dry cloth.

For more support, contact us via www.mova-tech.com

Specifications

Robot

Model	RLP23SE
Charging Time	Approx. 3.5 hours
Rated Voltage	14.4 V \equiv
Rated Power	75 W
Operation Frequency	2400~2483.5 MHz
Maximum Output Power	<20 dBm

Base Station

Model	RCPE0105
Rated Input	220-240 V~ 50-60 Hz
Rated Output	20 V \equiv 2 A
Rated Power (during dust emptying)	700 W
Rated Power (during hot water cleaning)	1160 W
Rated Power (during charging and drying)	87 W

Under normal use of condition, this equipment should be kept a separation distance of at least 20 cm between the antenna and the body of the user.

Note:

- Rated Power (during hot water cleaning) is determined by the power value during the representative period (water temperature 25°C).
- Rated Power (during charging and drying) is determined by the power value during full load period.

Battery Disposal and Removal

The built-in lithium-ion battery contains substances that are hazardous to the environment. Before disposing of the battery, make sure the battery is removed by qualified technicians and discarded at an appropriate recycling facility.

- the battery must be removed from the appliance before it is scrapped;
- the appliance must be disconnected from the supply mains when removing the battery;
- the battery is to be disposed of safely.

CAUTION:

Before removing the battery, disconnect the power and run out the battery as much as possible.

Unneeded batteries should be discarded at an appropriate recycling facility.

Do not expose to high temperature environment to avoid risks of explosion.

Under abusive conditions, liquid may be ejected from the battery. If contact occurs, flush with water and seek medical help.

Removal Guide:

1. Turn over the robot, use a proper tool to remove the screws on the back of the robot, and then remove the cover.
2. Unplug the terminals between the battery and PCB board to remove the battery.

WEEE Information



All products bearing this symbol are waste electrical and electronic equipment (WEEE as in directive 2012/19/EU) which should not be mixed with unsorted household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the recycling of waste electrical and electronic equipment, appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. Please contact the installer or local authorities for more information about the location as well as terms and conditions of such collection points.