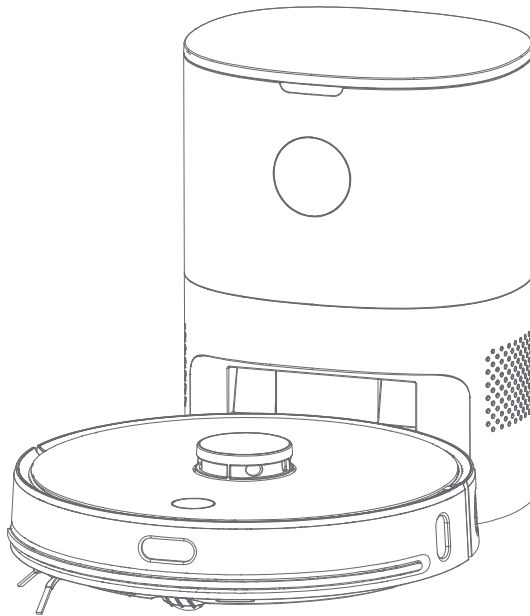


Arnagar

Operation Manual for Dust Collection Sweeping Mopping Robot



Reminder

Please carefully read this operation manual before use and keep it properly.

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Safety Instructions

Precautions for Use

- Keep plastic bags away from babies and children to avoid any danger of suffocation.
- This product can only be used to clean home floors. Do not use it in any outdoor (such as open balconies), non-ground (such as sofas), commercial or industrial environments.
- Do not use it in any suspended conditions (such as penthouse floors, open balconies, garrets) without protective fences.
- Do not use it in any environments where the temperature is higher than 40°C or lower than 0°C, or there are any liquids and sticky substances on the ground.
- Hang up cables from your home ground before use to prevent them from being dragged and pulled by the machine when it is working.
- Pick up fragile objects and sundries (such as vases, plastic bags, etc.) from the ground to prevent the machine from being blocked or bumped during operation to avoid damage to valuables.
- Do not allow people who are weak in physical strength, perception and intelligence or lack experience and common sense (including children) to use this product without supervision or guidance.
- Do not allow young children to play with this product as a toy.
- Do not place the cleaning tool of the main brush in any areas where children can get access to it.
- Keep hair, fingers and other parts of human body or pets away from the suction inlet of the machine when it is working.
- Do not use it to sweep any burning objects (such as unextinguished cigarette butts).
- Do not allow the machine to suck hard or sharp objects (such as decoration waste materials, glass, iron nails, etc.).
- Do not carry the machine by handling the protective cover of the laser ranging sensor, the top cover of the machine or the collision buffer.
- To clean and maintain the machine and the dust collection charging pile, be sure to power the machine off and unplug the plug from the power socket. Do not immerse the machine and the dust collection charging pile in water or rinse them with water.
- Do not wipe any part of the product with a damp cloth or any liquids.
- Do not use the sweeping module on any carpets.
- Use this product in accordance with the instructions of the manual. User shall be liable for any loss and damage caused by improper use.

Battery & Charging

- Do not incinerate the product even if it is severely damaged, otherwise the battery may explode.
- Do not use any third-party batteries, chargers and charging piles.
- Do not disassemble, repair or modify the battery and charging pile without authorization.
- Do not place the charging pile near any heat sources (such as a radiator).
- Do not wipe or clean the leaf spring of the charging pile with a damp cloth or wet hands.
- Do not throw away waste batteries at will. They should be handled by professional recycling agencies.
- If the power cord is damaged, it must be replaced with a special cord or assembly available from its manufacturer or service department.
- When the product needs to be transported, the machine must be turned off and it is recommended to use the original packaging box.
- Do not pour water into the device or immerse it in water.
- When the device is not used for a long time, turn off the machine after full charge, and store it in a cool and dry place. Charge it at least once every three months to prevent the battery from damage due to over discharge.
- Use right tools to remove the battery from the battery box by removing the screws from the bottom cover, opening the bottom cover, and unplugging the terminals.
- Be sure to remove the battery before discarding the device.
- Be sure to power off the device when removing the battery.

WARNING

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. 2. any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

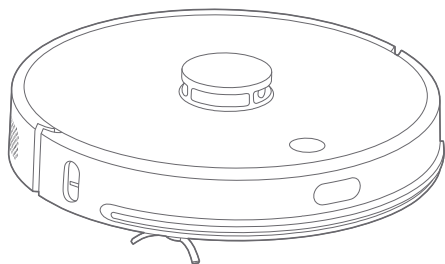
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

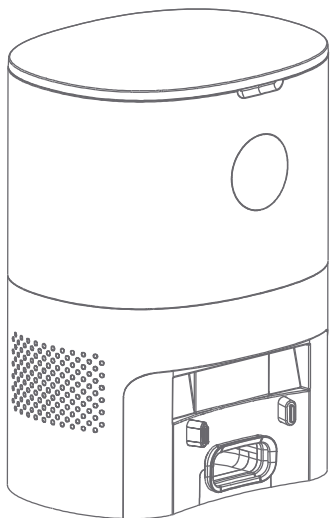
This product is certified as a Class 1 laser product, equipped with a laser radar in compliance with GB 7247.1-2012/IEC 60825-1: 2014 regarding the safety of Class 1 laser products, and does not produce laser radiation which may be dangerous to human body.

Packing List

Note: The illustrations of the product, accessories, user interfaces, etc. in the manual are all schematic diagrams for reference only. The actual product may be slightly different from the schematic diagrams due to product updates and upgrades. If so, the actual product shall prevail.



Sweeping mopping robot



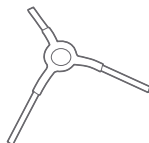
Dust collection charging pile



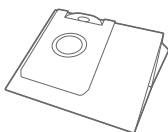
Mop support



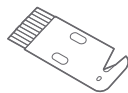
Duster cloth *2



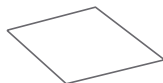
Side brush



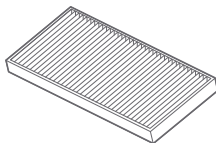
Dust bag *6



Cleaning knife

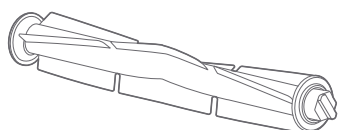


Manual

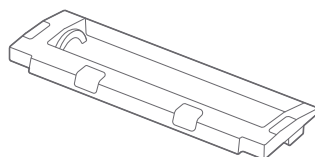


Filter

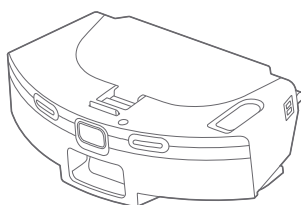
Accessories Mounted on Sweeping Mopping Robot



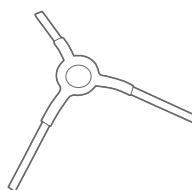
Main brush



Main brush cover



Two-in-one water tank

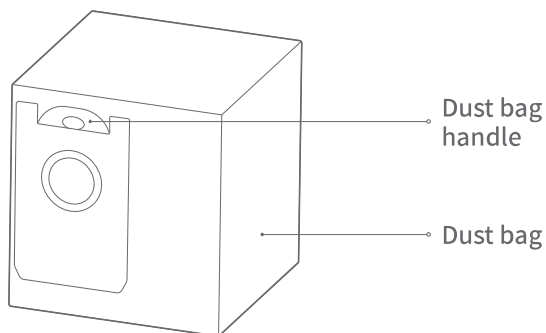


Side brush

Accessories Mounted on Dust Collection Charging Pile

Dust bag (One dust bag has been installed in the dust collection charging pile.)

Note: The dust bag is a consumable item and cannot be recycled. Please replace it on a regular basis.



Basic Parameters

Sweeping mopping robot

Product name	Intelligent Sweeping Robot
Product model	S8 Pro
Product dimensions	349 x 100 x 353mm
Input	24V==1.2A
Rated power	50W
Working voltage	14.4V==
Battery type	Lithium-ion battery pack
Battery capacity	5200mAh
Wi-Fi connection	Wi-Fi IEEE 802.11 b/g/n 2.4GHz


Dust collection charging pile

Input	220V~, 50Hz(EUR) 120V~,50/60Hz(USA)
Output	24V==1 .2A
Rated power	950W
Product dimensions	260 x 210 x 350 mm

Machine

Net weight	About 7.8 kg
Executive standard	GB 4706.1-2005, GB 4706.7-2014, GB4343.1-2018, GB 17625.1-2012

Name and Content of Hazardous Substances in Product

Name of Component	Hazardous Substance					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr (VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Housing	○	○	○	○	○	○
Circuit board	×	○	○	○	○	○
Motor	○	○	○	○	○	○
Battery	○	○	○	○	○	○
Accessories	○	○	○	○	○	○
<p>This table is prepared in accordance with the provisions of SJ/T 11364.</p> <div> <div> ○ Indicates that this hazardous substance contained in all homogeneous materials of this part is below the limit requirement in GB/T26572. × Indicates that the hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572. </div> <div>  </div> </div>						

Product Introduction

1. Machine



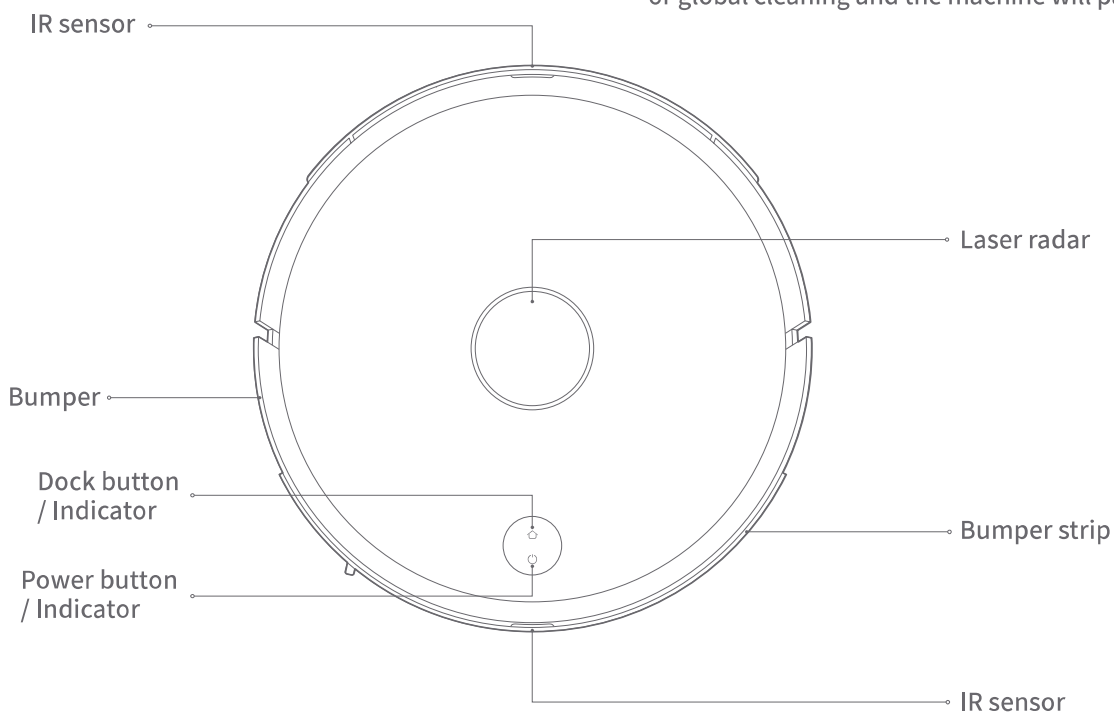
Dock/Spot

Press this button to start the dock for charging.
Press and hold this button for 3 seconds to start the spot cleaning.



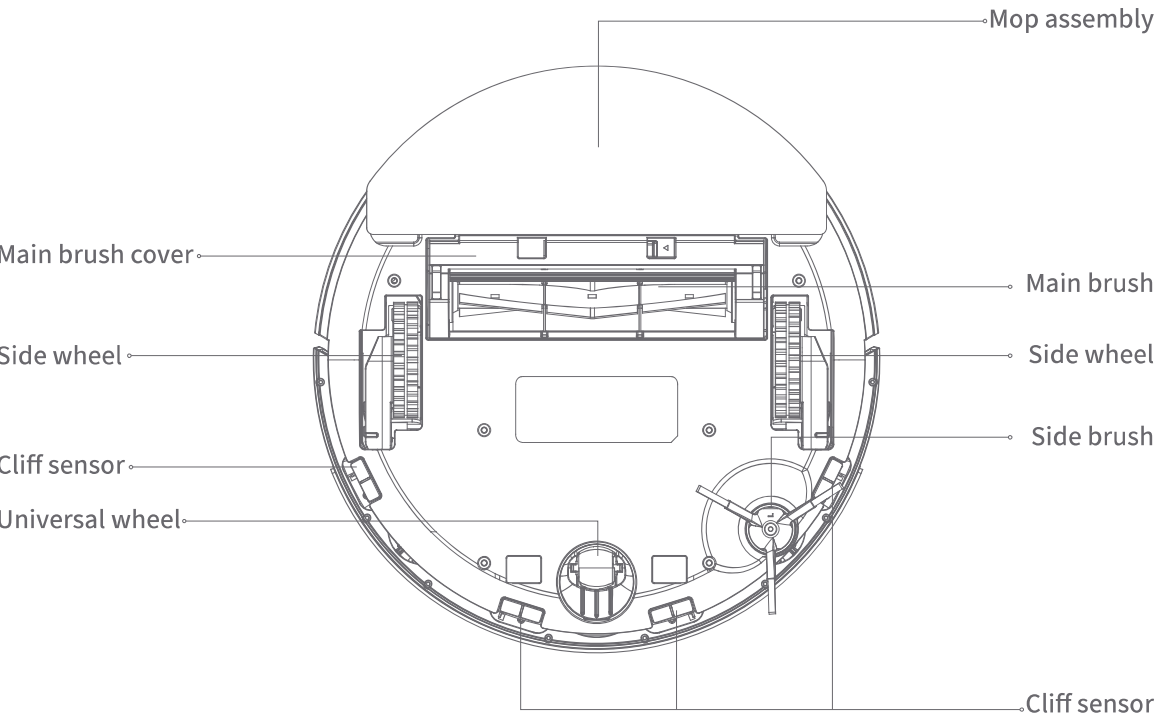
ON-OFF/Global

Press this button to start the global cleaning or pause the cleaning.
Press and hold this button for 3 seconds to power on or off the machine.
Note: Press any button during docking, spot or global cleaning and the machine will pause.





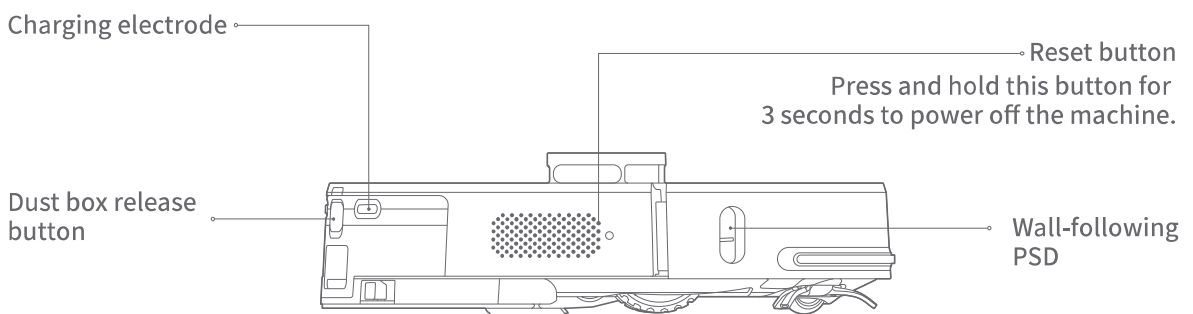
Status of indicators:

- * BLN: Breathe in a cycle of 4S during which the brightness of the indicator changes from the darkest to the brightest and then to the darkest.
- * Slow flash: On for 0.7 s, off for 0.8 s.
- * Quick flash: On for 0.1 s, off for 0.2 s.





Indicators

Status of Machine	Status of Power Indicator (Connected / Unconnected) 	Status of Dock Indicator 
Standby	Blue light is normally on / Blue light is normally on	Off
Charging	Off / Off	Orange light breathes
Pause	Blue light slowly flashes / Blue light slowly flashes	Off
Sweeping	Blue light is normally on / Blue light is normally on	Off
Dock	Off / Off	Orange light is normally on

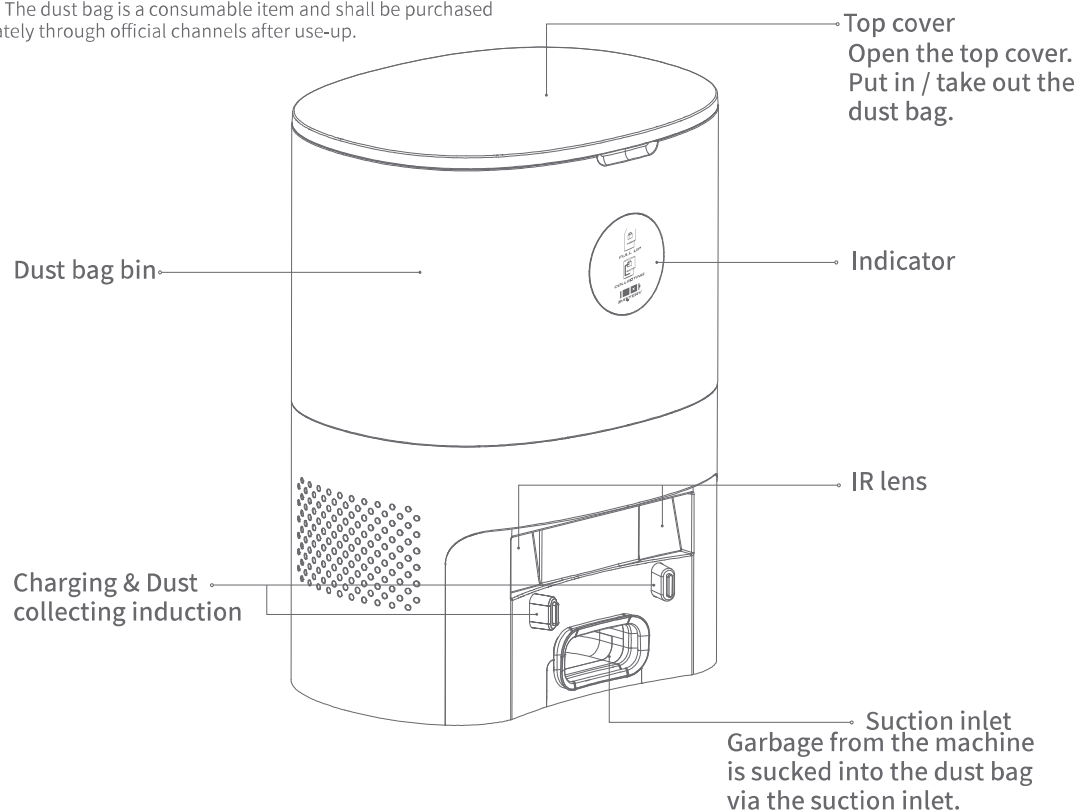


Indicators

Status of Machine	Status of Power Indicator (Connected / Unconnected)		Status of Dock Indicator 
Abnormal	Red light quickly flashes / Red light quickly flashes		Off
Shutdown	Blue light quickly flashes / Blue light quickly flashes		Off
Wi-Fi connection fails	Blue light slowly flashes		Off
Wi-Fi connection is completed	Blue light is normally on		Off
Wi-Fi connection is in process	Blue light is normally on		Off




2.Dust collection charging pile

*Note: The dust bag is a consumable item and shall be purchased separately through official channels after use-up.



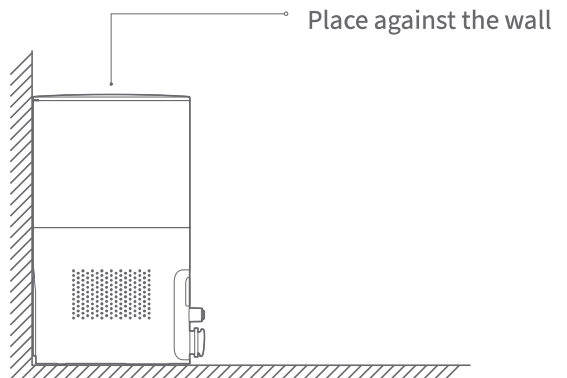
Status of Indicators on Dust Collection Charging Pile

*When the fan fails, all the indicators flash with high brightness.

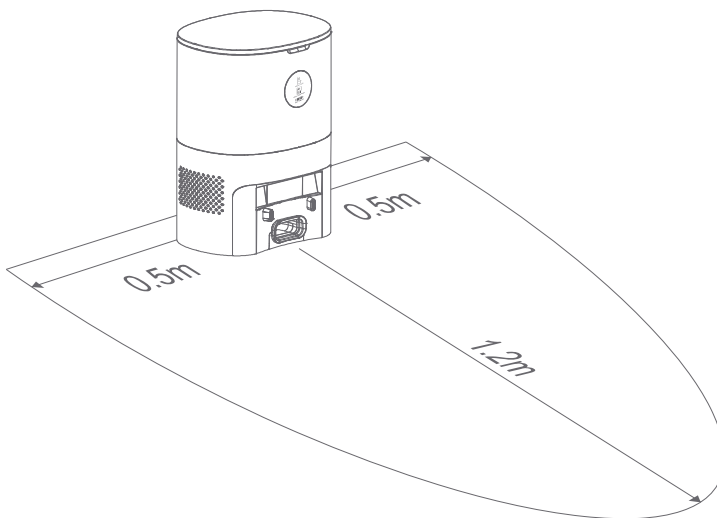
Status of Dust Collection Charging Pile	Status of Indicators on Dust Collection Charging Pile
 FULL UP	When the dust bag is full, the indicator lights up with high brightness. If the dust bag is not installed properly, it flashes.
 COLLECTING	When dust collection is being performed, the indicator flashes with high brightness.
 BATTERY	When the battery is fully charged, two green bars are normally on. When the battery capacity is equal to or lower than 50%, one green bar is normally on.

Installation of Dust Collection Charging Pile

- Place the dust collection charging pile on a flat floor against the wall. Insert the power plug into an acceptable socket to connect the power.



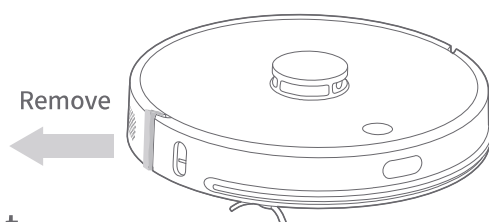
- Ensure that there are no obstructions within 1.2 meters right ahead and 0.5 meters on both sides of the dust collection charging pile.





Operation

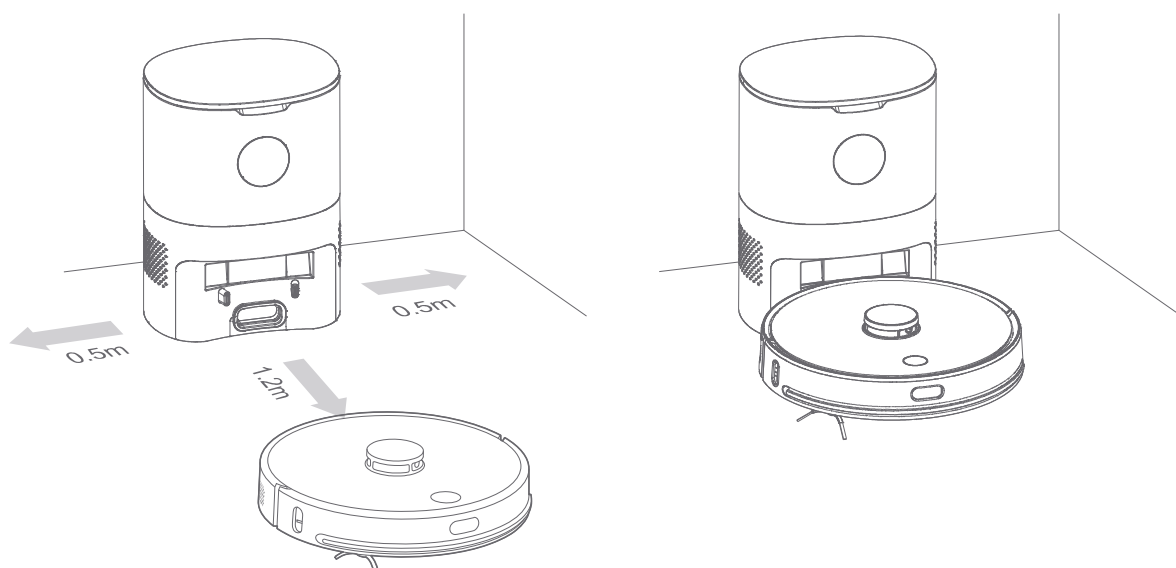
Removal of Limit Bar

Place the sweeping mopping robot on a flat indoor floor, and remove the limit protection devices at both ends of the front bumper.



Charging of Sweeping Mopping Robot

Press and hold the  button for three seconds to turn on the sweeping mopping robot, and then press the  button to dock the robot for automatic charging. When fully charged, the robot gets ready for work.



- Fully charge the sweeping mopping robot before starting cleaning.
- Before starting cleaning, pick up wires and objects from the ground to avoid damage caused by winds, drags and collisions during cleaning.
- It is recommended that the sweeping mopping robot starts cleaning from the dust collection charging pile.
- When the power is insufficient during cleaning, the sweeping mopping robot automatically docks to the dust collection charging pile for charging, and returns to the interruption point to continue cleaning when fully charged.



Connection to APP

Scan the QR code, download and install the APP. Users who have installed the APP will directly enter the device connection page. You can also download and install it by searching for "Arnagar" APP in the app store. Open the homepage of the APP. Click "+" in the upper right corner of the page, and add your device according to the prompts.








Note: Due to upgrades and updates of the APP, your actual operations may be slightly different from those described above. Please perform operations following the instructions in the current APP.

Wi-Fi Reset

Press and hold the  and  buttons for three seconds at the same time. When you hear the prompt of "Wi-Fi has been reset" and see the power indicator lights up in orange, the sweeping mopping robot enters the state of waiting for connection.


Note: The device can only be connected to Wi-Fi networks in the 2.4GHz band.

OFF / ON / Pause



- Press and hold the  button for three seconds to power on the machine; the power indicator slowly flashes white for five seconds and then normally lights in blue, indicating the sweeping mopping robot enters the standby state. Press the  button to start global cleaning, or press and hold the  button for three seconds to start spot cleaning.
- When the sweeping mopping robot stops, press and hold the  button for three seconds to power it off, the power indicator flashes blue quickly for five seconds and then goes out.
- During cleaning, press the  button to pause the cleaning.
- The sweeping mopping robot will enter the sleep state if it stops without any operations on it for more than 20 minutes. In the sleep state, you can wake up the machine by pressing any button.

Note: The sweeping mopping robot being charged cannot be powered off and will not enter the sleep state.

Auto Dock / Manual Dock

- During cleaning, the sweeping mopping robot automatically docks for charging when the battery is insufficient, or it automatically docks for charging after cleaning.
- During cleaning, press the  button, and the sweeping mopping robot returns to the dust collection charging pile for dust collection and charging.

Midway Water Addition or Mop Cleaning

- Press the  button to pause the sweeping mopping robot and remove the mopping module. Add water or clean the mop, reinstall the mopping module, and then press the  button again to continue cleaning.

Setup of Cleaning Mode


- The standard cleaning mode is applied by default. After the device is connected to the APP, you can choose among more modes in the APP.

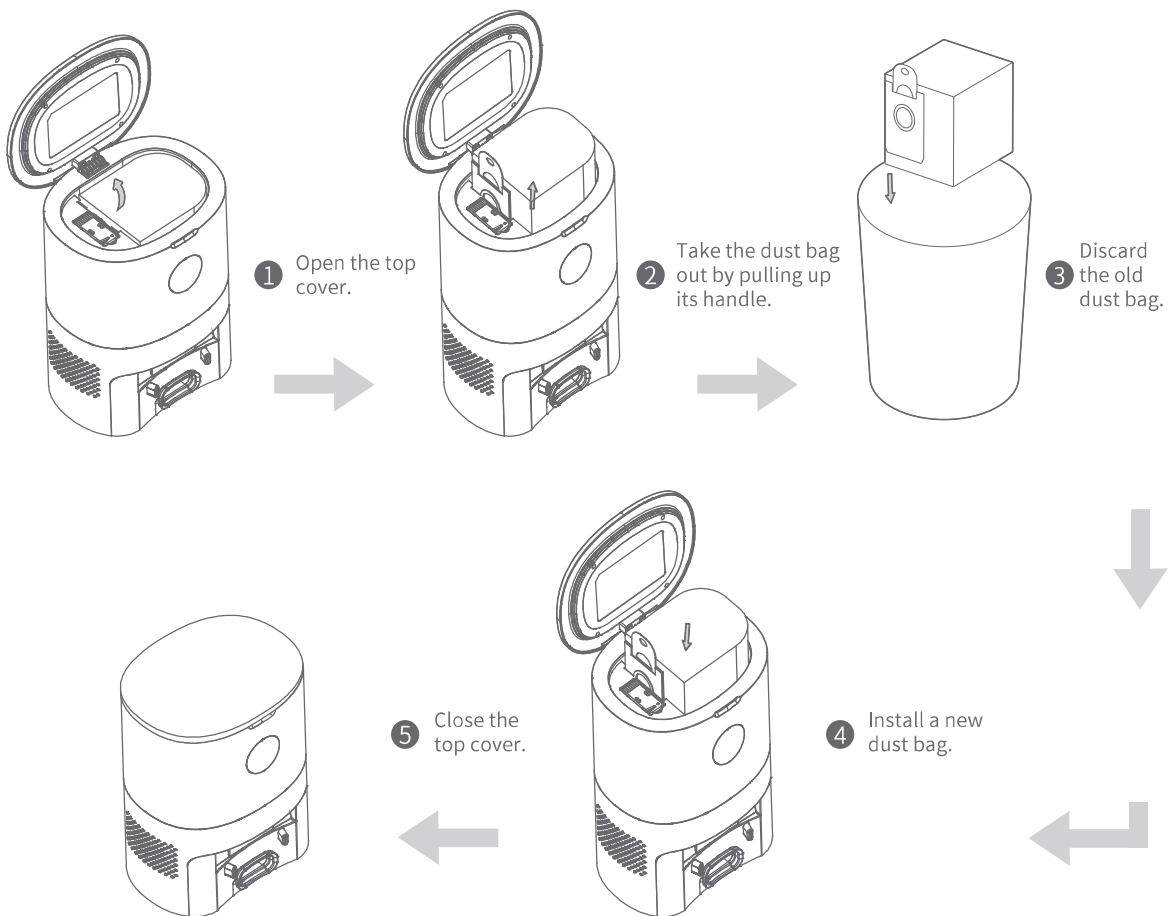
Fault State

- In case of any abnormalities, the sweeping mopping robot will give a voice prompt and the power indicator will flash red quickly. Please refer to "Troubleshooting" for solutions.
- If no operations are performed on the sweeping mopping robot in fault state for 10 minutes, it will automatically go to sleep.

Maintenance

Replacement of Dust Bag

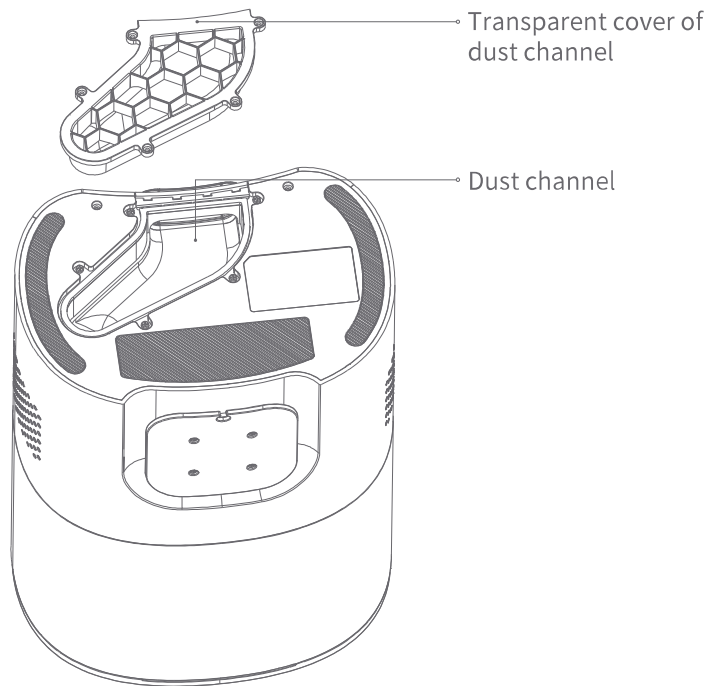
When the dust bag is full, the  indicator on the dust collection charging pile will normally light in red, with a message given in the APP, indicating that the dust bag should be replaced in time.



Cleaning of Dust Channel

If the indicator on the dust collection charging pile is still normally on in red after the dust bag is replaced, unplug the power plug, turn the dust collection charging pile upside down, and check whether the dust channel is blocked by foreign bodies.

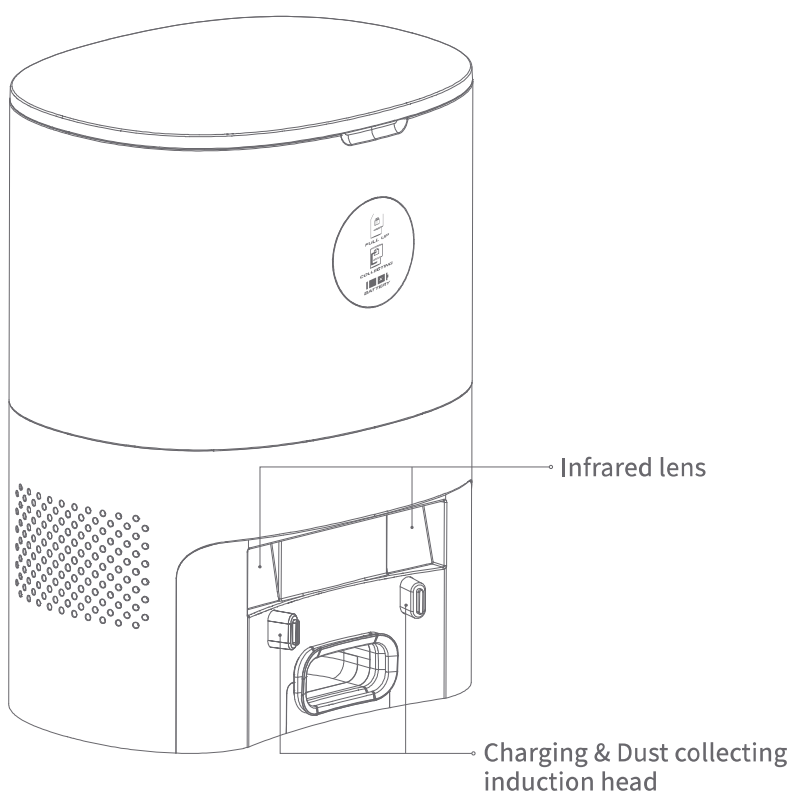
If the dust channel is blocked, use a screwdriver to remove the transparent cover of the dust channel to clean the foreign bodies with reference to the figure below.



Warning: Do not perform forced removal. After cleaning, put it back as it is.

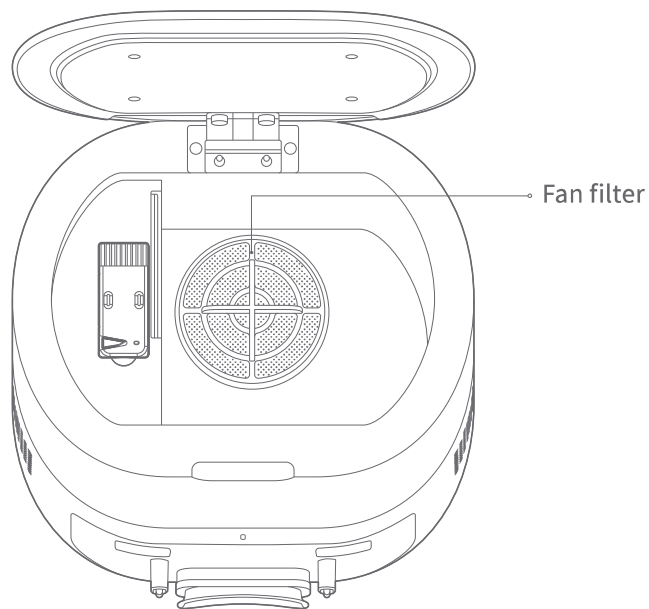
Cleaning of IR Lens / Charging & Dust Collecting Induction Head

Wipe gently with a clean soft dry cloth. It is recommended to perform cleaning once a month.



Cleaning of Fan Filter

The fan filter is installed under the dust bag. If dust is accumulated on it, wipe with a clean soft dry cloth. It should be cleaned once a month.

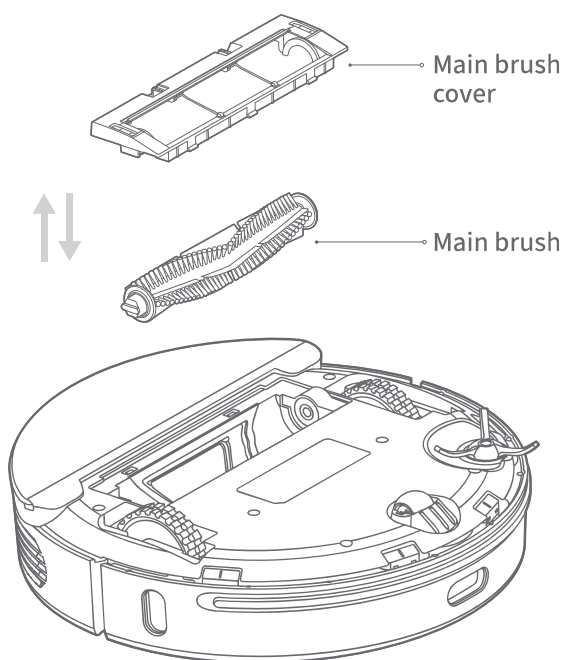


Cleaning of Main Brush

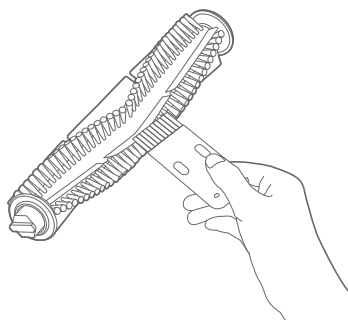
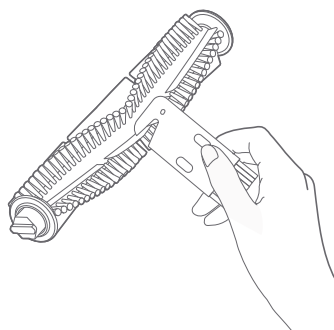
The main brush is a consumable item, and should be cleaned at least once a week. It is recommended to replace it every 6-12 months to ensure the cleaning effect.

- 1 Turn the sweeping mopping robot upside down. Press the buckle on the main brush cover, and remove the main brush cover and main brush.

Warning: Avoid collisions to prevent the laser radar from damage when placing the machine upside down.



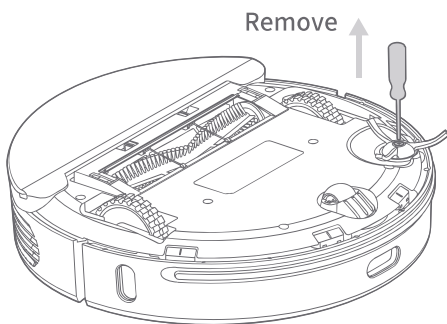
- 2 Use the cleaning knife to cut off hair entangled on the main brush, and use the brush on the other end of the knife to clean the main brush.



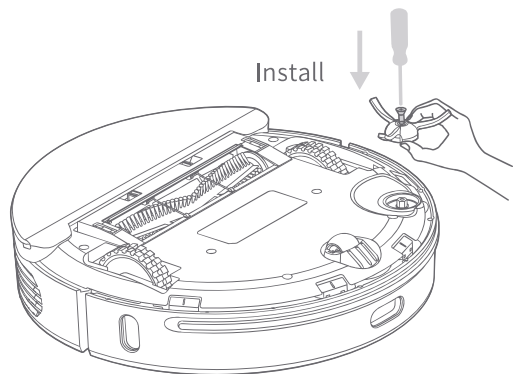
- 3 Put the main brush and main brush cover back to their position. Press the buckle to fasten it.

Cleaning / Replacement of Side Brush

- 1 Remove the screws from the side brush using the screwdriver and remove the side brush.



- 2 Put the side brush back after cleaning, or install a new side brush.



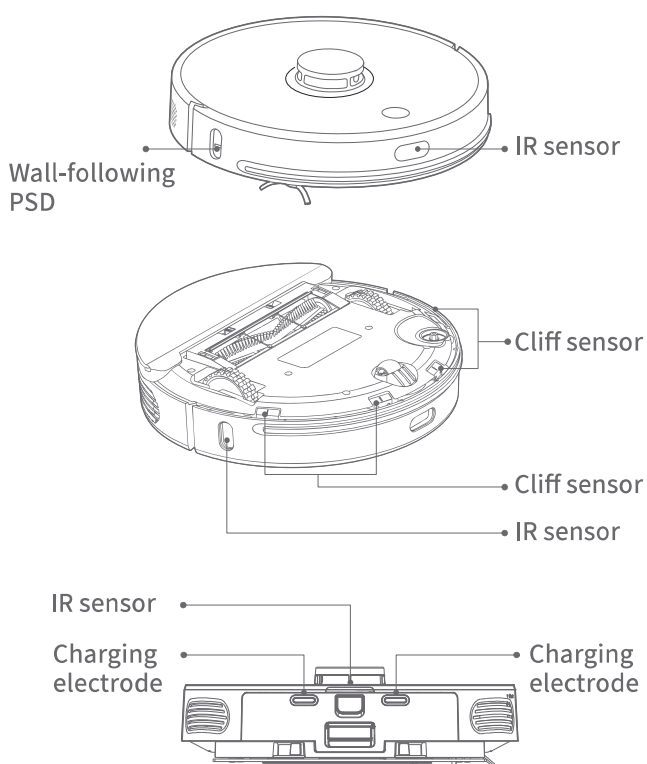
Note: The side brush is a consumable item, and should be replaced every 3-6 months to ensure the cleaning effect.

Cleaning of Sensors

It is recommended to wipe each sensor with a clean soft dry cloth every week to ensure the normal use of the machine.

Sweeping mopping robot:

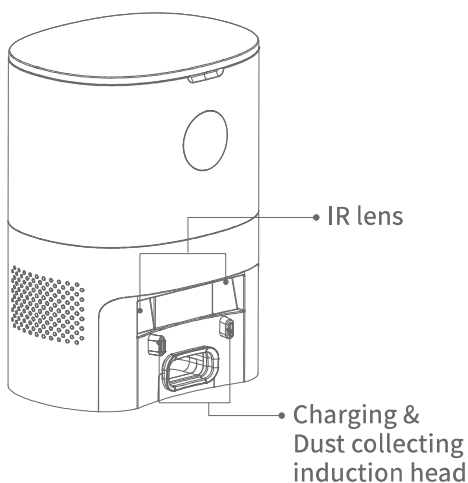
Cliff sensor×4 Charging electrode×2
IR sensor×3 Wall-following PSD×1



Dust collection charging pile:

IR lens×2

Charging & Dust collecting
induction head×2

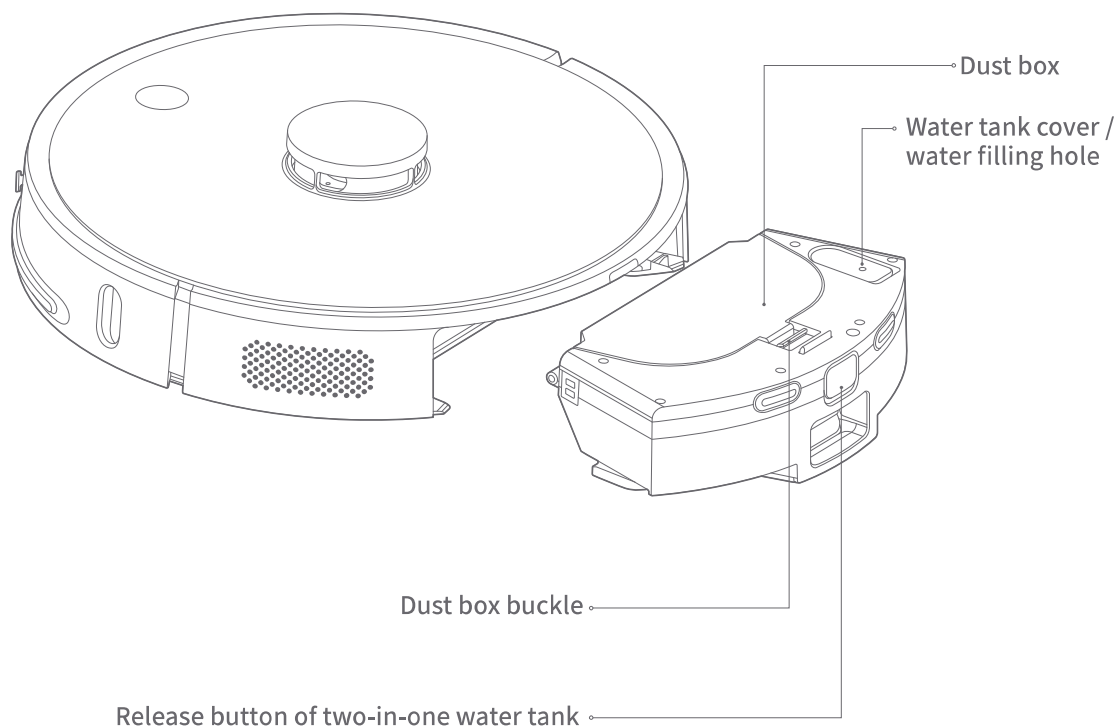


Battery Maintenance

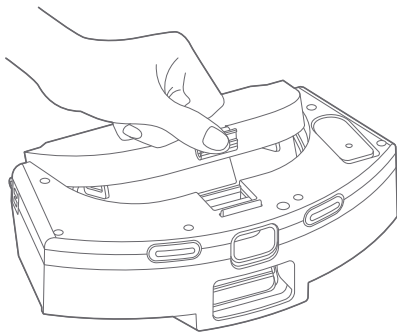
1. The sweeping mopping robot is internally equipped with a high-performance rechargeable lithium-ion battery pack. To maintain the performance of the battery, keep it charged on a daily basis.
2. When the machine is not used for a long time, turn off and store it. Charge it at least once every month to prevent the battery from damage due to over discharge.

Cleaning of Two-in-One Water Tank

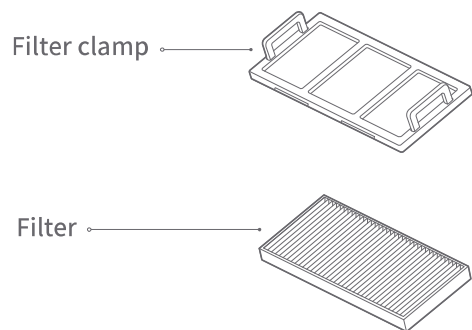
- 1 Press and hold the release button of the two-in-one water tank while pull out the water tank.



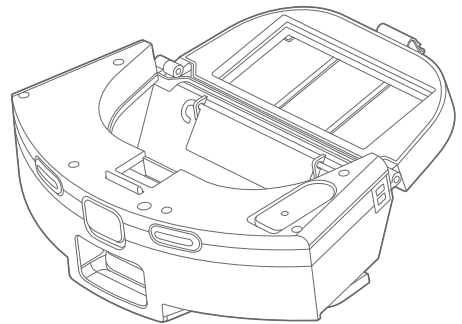
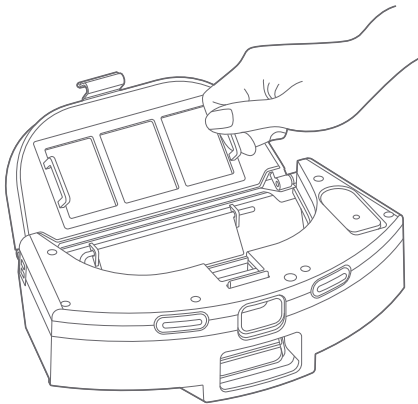
- ② Pull the buckle of the dust box to open the dust box.



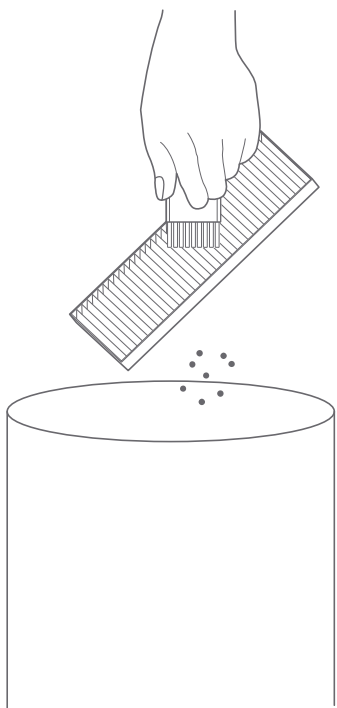
- ④ Take out the filter.



- ③ Remove the filter clamp.

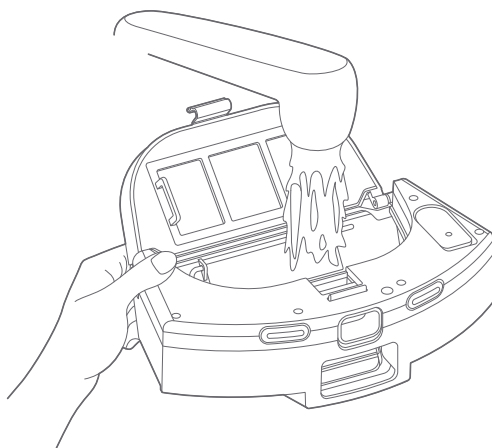


- ⑤ Remove debris from the filter and filter clamp with the cleaning brush.

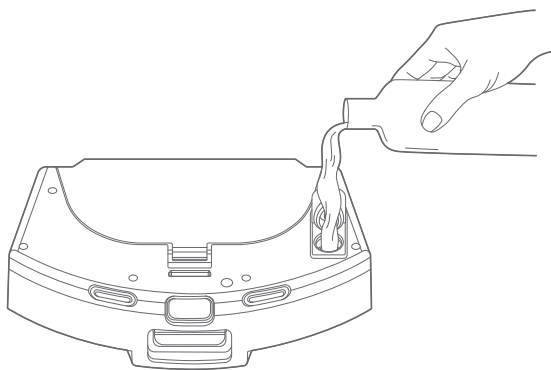


Note: The filter is a consumable item and should be replaced every 3-6 weeks. Purchase it through official channels.

- ⑥ Turn on the tap to clean the dust box.



- ⑦ Open the water tank cover and add appropriate amount of water.

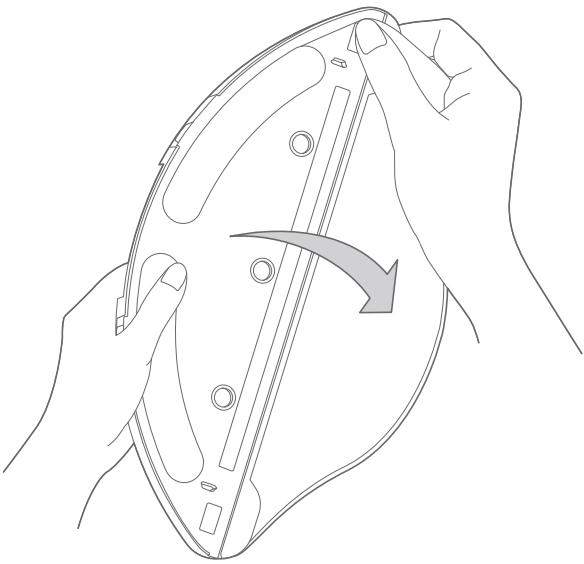


Note: Pure water is suggested.

- ⑧ Turn the two-in-one water tank upside down. Replace or clean the mop.

Power-off Restart / Factory Reset

When any button does not respond or the machine cannot be powered off, long press the reset button with a needle for one second, the sweeping mopping robot will restart from power-off.



Note:

- Dirty mop would reduce the mopping effect. Clean it in a timely manner.
- Be sure to remove the mop, wash and wring it out before use after re-installation. Do not install it on the two-in-one water tank for cleaning, otherwise the filter element would be blocked by dirty back-flow water.
- The mop is a consumable item and should be replaced every 3-6 weeks.

Troubleshooting

In case of any abnormalities in the machine during operation, the power indicator will flash red quickly. When some faults occur, the machine will give voice prompts. Please refer to the table below to solve them.

Voice Prompt / Fault	Possible Cause	Solution
Please check whether the radar is stuck.	The laser radar is sheltered or stuck.	Remove the shelter or move the machine to an open area and restart it.
Please check the bumper.	The collision sensor is stuck.	RClean the foreign objects around the bumper, or move the machine away.
Please wipe the cliff sensor and start the machine away from the dangerous area.	The cliff sensor is triggered after the machine is started.	Wipe the cliff sensor and move the machine to a flat and open place to start it.
Please check the main brush. Please check the side brush. Please check the main wheel.	The main brush is stuck. The side brush is stuck. The main wheel is stuck.	Clean the main brush, or move the machine away. Clean the side brush, or move the machine away. Clean the main wheel, or move the machine away.
The two-in-one water tank is taken out.	The two-in-one water tank is removed.	Put the two-in-one water tank and filter back to their original position, and confirm whether they are properly installed.
Low battery, dock for charging.	Power is insufficient during cleaning.	Low battery, please charge before use.
The fan works abnormally.	There is an abnormality in the fan.	Restart after power-off.
Please wipe the wall-following PSD at the right side.	The wall-following PSD is abnormal.	Wipe and clean the wall-following PSD.
The top cover of the radar is pressed.	The top cover of the radar is stuck.	The laser radar is pressed or stuck. Move the machine to a new place and start it.
The battery is damaged or has not been installed.	The battery works abnormally during charging.	The battery temperature is too high or too low. Use the machine when the battery temperature is normal.
WI-FI connection fails, or WI-FI reconnection fails after disconnection.	Unable to connect to the router or find the hotspot of the machine.	Ensure that 2.4G WIFI is available indoors, and confirm whether a fixed IP address is set to access the network. Check whether the WIFI of the machine is reset.
The machine moves disorderly.	The machine would move on carpets and floors with black printing and dyeing agent, leading to misjudgments of cliff sensors.	Avoid using the machine on carpets and floors with black printing and dyeing agent.
Unable to power on.	Low battery or abnormal ambient temperature.	If the battery is low, charge it before use. If the ambient temperature is too low (below 0°C) or too high (above 50°C), use the machine in environments at 0°C ~40°C.

Voice Prompt / Fault	Possible Cause	Solution
Unable to charge.	<ol style="list-style-type: none"> 1. The dust collection charging pile is not powered on. 2. The charging induction head is dirty. 3. The charging induction head is in poor contact. 	<ol style="list-style-type: none"> 1. Make sure the dust collection charging pile is connected to power source via power cord. 2. Regularly clean the charging electrode of the machine and the charging induction head of the dust collection charging pile. 3. Eliminate the failure of poor contact caused by the side brush or other foreign objects. Reposition the machine manually.
Failed to dock to the dust collection charging pile for charging.	The dust collection charging pile is sheltered or far away.	Place the dust collection charging pile in an open area. Put the machine near the dust collection charging pile.
The machine acts abnormally.	Program exception	Press the reset button to perform power-off restart.
Abnormal noise during cleaning.	The main brush / side brush or main wheel is entangled by foreign matter.	Clean up after power-off.
Cleaning capacity is reduced or dust falls.	The dust box is full, the filter is clogged or the main brush is entangled.	Clean the dust box, the filter and the main brush timely.
Timed cleaning fails.	Low battery	Timed cleaning will start when the remaining power is greater than 30%. Keep charging on a daily basis.
APP connection fails.	Abnormal Wi-Fi network, wrong Wi-Fi password or abnormal APP.	Ensure the machine works in a proper area with Wi-Fi signals. Re-enter Wi-Fi password or reset Wi-Fi. Update the APP and try again.
No water or little water flows out of the mopping module.	The water tank is short of water, the mop is dirty or the mop support is not installed properly.	Check whether there is water in the water tank. Clean the mop. Install the mop properly according to the instructions; Check whether the water outlet is blocked by foreign matter. Add clean water without impurities.
A large amount of water flows out of the mopping module.	The water tank cover is not closed in place, or the water flow is adjusted to the maximum.	Confirm whether the water tank cover is installed properly. Adjust the water flow to an appropriate level in the APP; Fill the water tank with water and let it stand to check whether it is damaged or leaks.
Dock for charging due to insufficient battery during cleaning but failed to continue cleaning.	The machine is in DND mode or manual docking is performed.	Check whether the machine is in DND mode in the APP. In such mode, the machine will not continue cleaning. Manually dock or put the machine back to the dust collection charging pile, and the machine will not continue cleaning.
The machine cannot return to the dust collection charging pile after spot cleaning or movement.	The robot re-plans routes or is far from the dust collection charging pile.	The robot will regenerate maps after spot cleaning or long-distance movement. If the dust collection charging pile is far away, it may not automatically dock for charging. Manually put the machine back to the dust collection charging pile for charging.

In case of any abnormalities when the dust collection charging pile is working, the three types of indicators on it will light with high brightness at the same time, and messages are also displayed in the APP. Refer to the table below to solve them.

Voice Prompt / Fault	Possible Cause	Solution
Dust collection fails.	Dust bag has not been installed or not installed in place. The overheating protection of the fan starts or the fan fails.	Install the dust bag properly and re-collect dust after 30 minutes. If the problem still exists, contact our after-sales service department.
The dust bag is full or clogged.	The dust bag is full or clogged.	Replace the dust bag and clean the dust collection charging pile (suction inlet, dust channel, fan filter, etc.) timely.

Warranty

We shall provide the following after services of three guarantees (for repair, replacement and compensation of faulty products) regarding this product in strict accordance with the "Law of the People's Republic of China on the Protection of Consumer Rights and Interests" and "Law of the People's Republic of China on Product Quality"

Warranty Period

- 1. Customers can request free return or replacement services on the performance failures of this product upon determination by testing within seven days from the following day of receipt;
- 2. Customers can request free replacement or repair services on the performance failures of this product upon determination by testing within eight-fifteen days from the following day of receipt;
- 3. Customers can request free repair services on the performance failures of this product upon determination by testing within two years from the following day of receipt;

Content of Warranty

Type	Content	Period
Sweeping mopping robot	Parts of the machine	2 years
Accessories	Dust collection charging pile	2 years

Attention: The main brush, side brush, main brush cover, filter, mop support, cleaning knife, disposable mop, and disposable dust bags are consumable items attached with the product and have not been covered under warranty.

Note:

- 1. You should keep the packaging box for at least 30 days from the date of receipt as the packaging box needs to be used during transportation to ensure the transportation safety of your products;
- 2. This product may only be sold in Mainland China (excluding Hong Kong, Macau and Taiwan), so the after-sales services of this product are only provided in Mainland China, and this warranty is only applicable in Mainland China.

Non-Warranty Coverage

- 1. Unauthorized repairs, misuse, collisions, negligence, abuse, fluid intake, accidents, modifications, improper use of non-product accessories, or tearing or altering of labels or anti-counterfeiting marks;
- 2. Beyond the validity period of the after services of three guarantees;
- 3. Damage caused by force majeure;
- 4. Inconformity with performance failures;
- 5. Product performance failures due to personal reasons.

Table of failures in product performance

Name	Performance Fault
Dust collection sweeping mopping robot	The machine can not be powered on under normal operating condition.
	The machine can not be charged under normal operating condition.
	The main brush or side brush does not work under normal operating condition.
	The main wheel or universal wheel does not work under normal operating condition.
	The functions described in the manual fail.

