

ROBOTIC VACUUM CLEANER

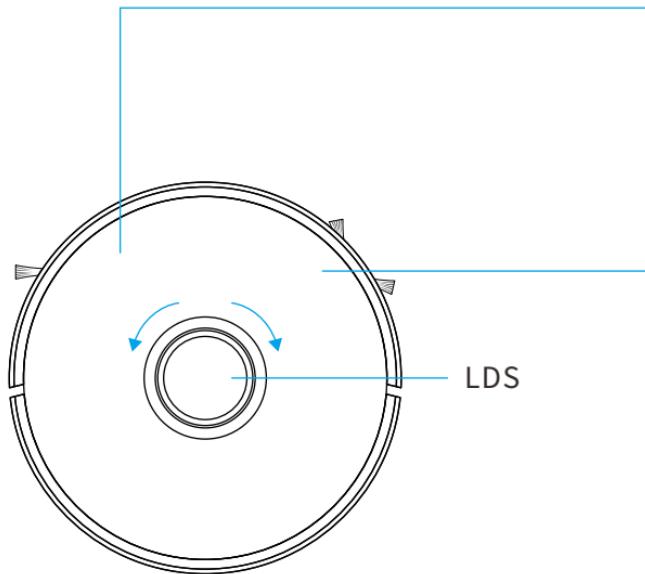
User Guide

Please read this manual carefully before using.

SAVE THESE INSTRUCTIONS.

About Your Robot

LDS Buttons & Indicators



Power on or off/Cleaning/Pause

- Turn left the LDC button to turn on/pause
- Turn left the LDC button and hold 3 seconds to turn on/off
- Abnormally, turn left the LDC button and hold 10 seconds to shutdown

Charging

- Turn right the LDC button to auto recharge

Reset WiFi

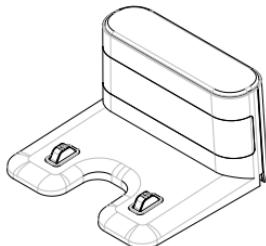
- Turn right the LDC button and hold 3 seconds

Light Indicator

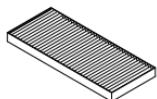
- Blue: Working or charging
- Red: Error or battery low
- Purple: Wi-Fi is not connected

About Your Robot

Accessory



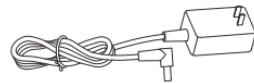
Charging dock *1



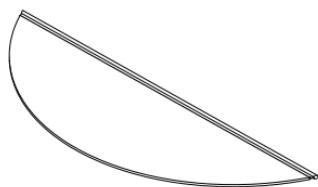
HEPA filter + sponge *1



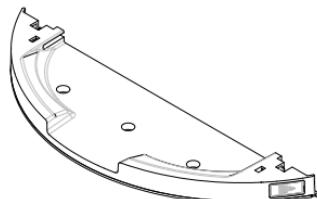
Brush *4



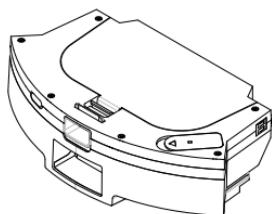
Adapter *1



Mop pad *1



Mop holder *1



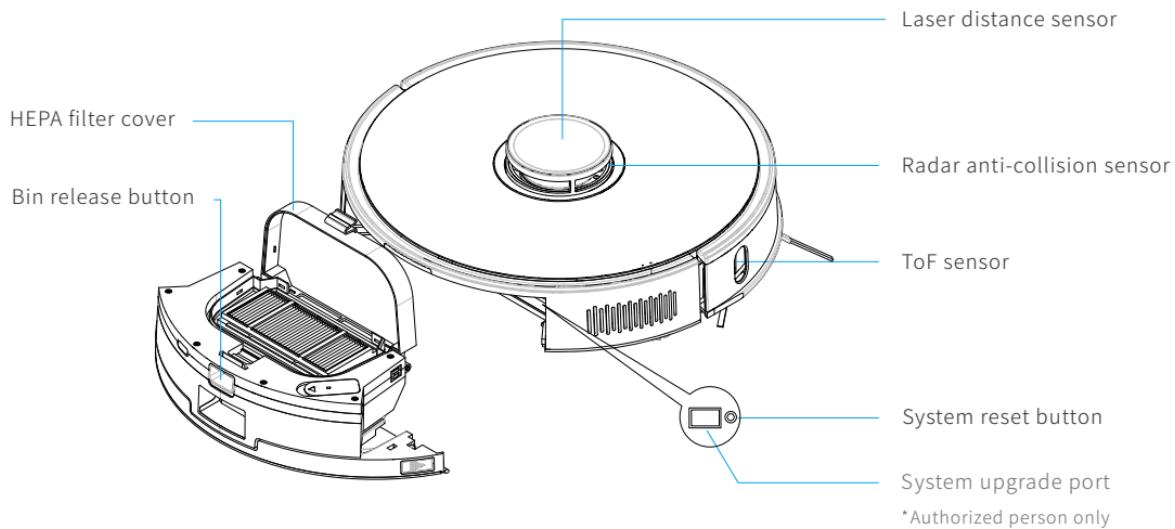
2 in1 dast bin /Water tank *1



Cleaning tool *1

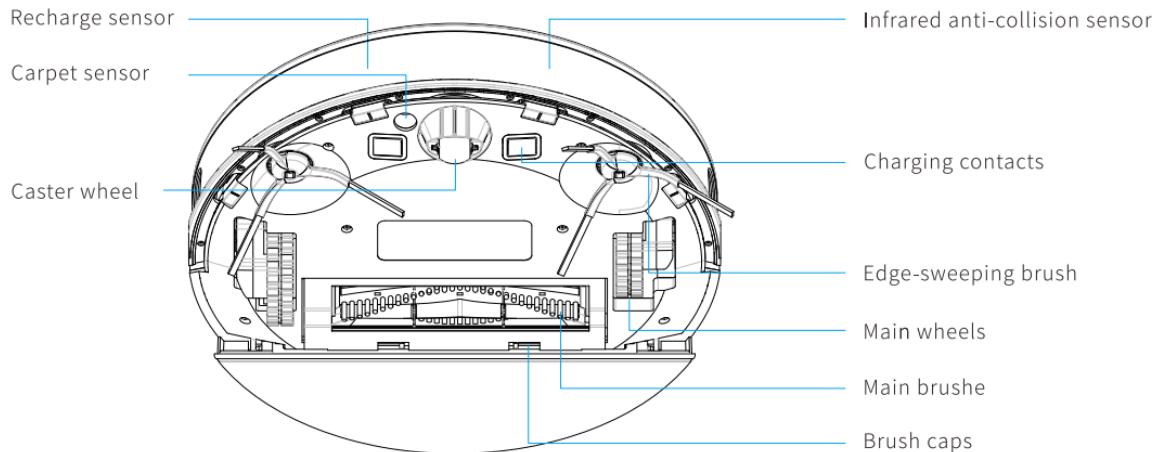
About the Vacuum

Robot



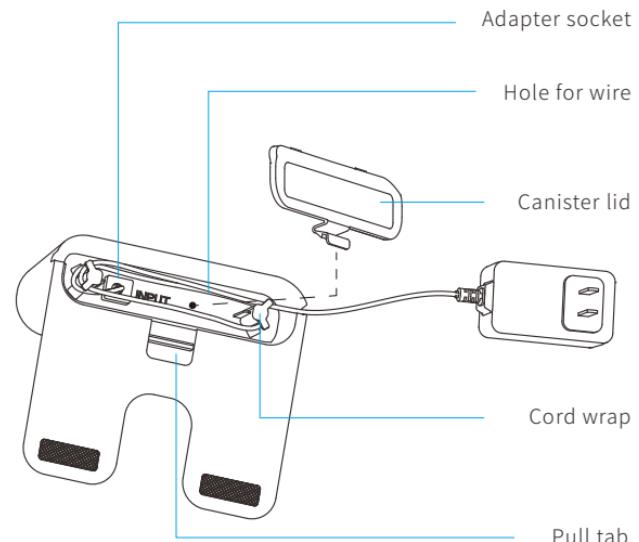
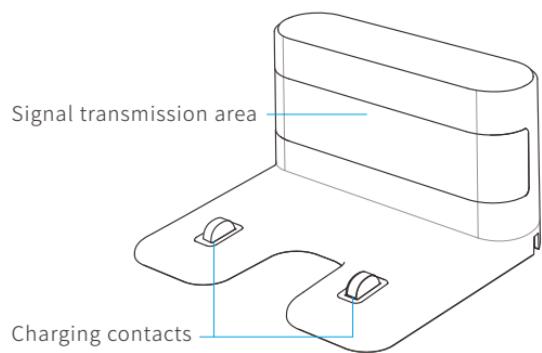
About the Vacuum

Sensors and structures



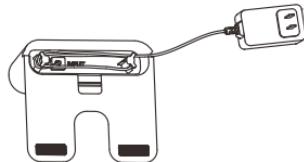
About the Vacuum

Charging station

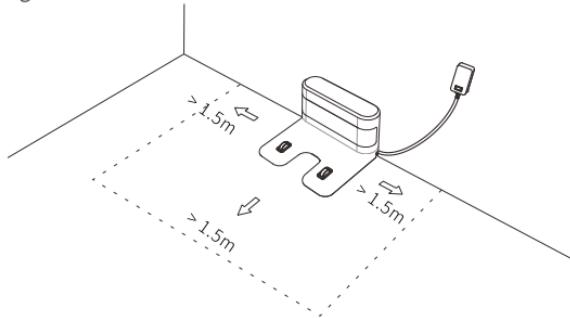


Installation

1. Plug in the charging dock and place the remaining wire into the trunking at the bottom of the charging dock.



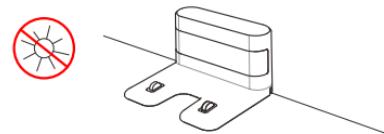
2. Place the charging dock on a hard level surface and against a wall.



Note:

Make sure it is in an open and uncluttered area leaving at least:
-1.5 meters (4.5 feet) in the front of the charging dock.
-0.5 meters (1.5 feet) on both sides of the charging dock.
Failure to place the remaining wire into the trunking, may cause robot to stuck while charging or cleaning. Charging indicator always on when powered up.

3. Do not move the charging dock at will and avoid direct sunlight on the charging dock.

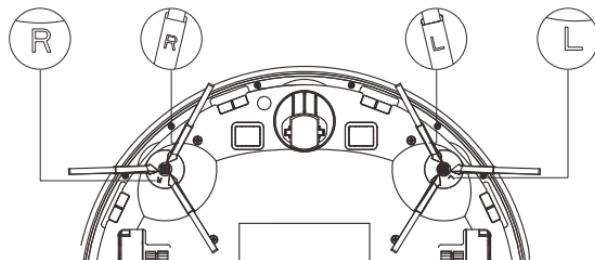


Note:

When the position of the charging dock is changed, the robot may fail to locate and lose the map. The robot will rebuild the map, when working again. Rebuilding the map may result in the loss of information about the restricted area and area cleaning

4. Install side brushes

Install left brush (L) and right brush (R) in correspondence with the letters L and R on the bottom case by pressing a brush into each slot until it clicks.



Installation

5. Power on and charge

Turn on the machine by turning the LDS knob to the left for 3 seconds, wait until the indicator light is on and then charge the robot against the charging dock.



Note:

If the power is not enough, please place the robot on the charging dock and robot will turn on automatically, robot will work only when the power is above 20%. The front of the robot is facing the charging dock, the distance between the front of the robot and the charging dock is about 2CM

6. Connecting to the app (step can be skipped)

Please refer to <app Connection Guide> to connect to the app

7. Start cleaning

After switching on, turn the knob to the left, or use the app to start cleaning.

Note:

Robot should not be used for cleaning liquids

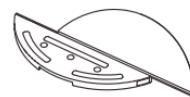
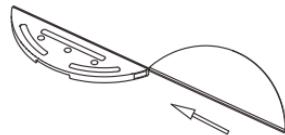
If the power is below 20%, robot will not be able to carry out the cleaning task, please recharge the battery before robot continue to clean.

When the power is below 20% during cleaning, the robot will automatically return to the charging dock to be charged, and when the power reaches 80%, it will automatically start cleaning at the breakpoint.

Before using Robot, pick up objects like power cords to avoid dragging causing electrical power failure, damage to objects or wires

8. Install the mopping module

(1) Installation of the mopping cloth: Stick the mopping cloth flat to the bottom of the water tank.

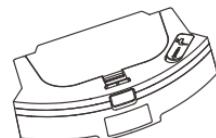
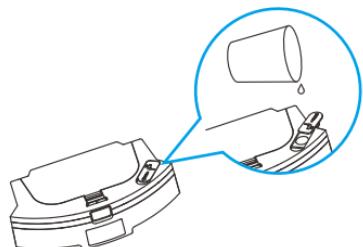


Note:

Wash the mop once after each use to achieve the cleaning effect.

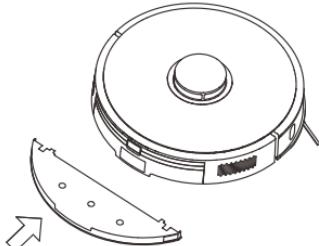
Installation

(2) Fill the tank with water open the rubber plug lid and fill it with water and fasten it

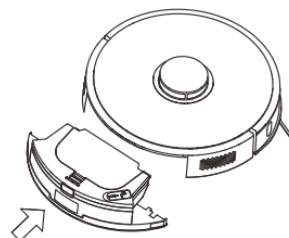


Attach the filter cover and fasten it tightly

(3) Insert the mopping module: Push it in horizontally along the rear of the robot until it clicks.



Water tank mopping Bracket

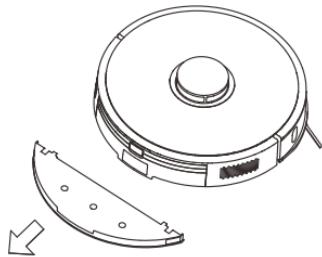


(2 In 1 water tank)

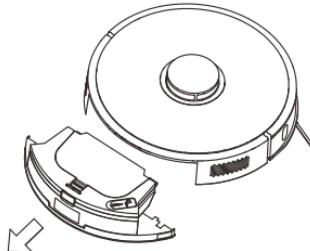
Press and hold the dust bin button in the middle of the tank along the rear of the robot. Push in horizontally until it is no longer possible to push in and then release the button. Press and hold the top edge of the button and lift upwards to ensure that it is in place.

Installation

9. Remove the mopping module



When the robot has finished working, press the clips on both sides with both hands to move the mop backwards, clean the mop (Do not move or turn over robot during operation)



When the robot has finished its work, remove the 2 in 1 water tank and empty the water from the tank, (Do not move or turn over robot during operation)

10. Mopping module

- (1) Please don't use this function when no one at home.
- (2) For the safety, please remove the mopping module if not mopping or during recharging.
- (3) Please use no go zones function to separate prevent mopping on the carpeted floor.
- (4) It is recommended that all floors are vacuumed at least three times before the first mopping session to ensure the cleaning quality.
- (5) If adding water or cleaning the mop is needed while the robot is working, please pause the robot and follow the step 8 and step 9 (uninstall and Install the mopping module). Please do not move or turn the robot over to avoid error locating or lost map.
- (6) This mop function provide basic cleaning and can not effectively remove stubborn stains, or replace human cleaning.

Instruction for Use

Turn on/off

Turn left the LDC button and hold 3 seconds wait for the indicator lights up, and the robot is successful turn on. When robot is in standby, turn left the LDC button and hold 3 seconds wait for the indicator light will turn off, and the robot is successful turn off.

Note: The robot cannot be turned off during charging

Clean/pause

After the robot is completed turn on, turn left the LDC button or use the mobile APP.

Note:

The robot vacuums cannot be used to clean liquids. If the power is lower than 20%, the cleaning task cannot be performed, please recharge first. When the power is lower than 20% during the cleaning process, the robot will automatically return to the charging cradle. When the power reaches 80%, then cleaning task will start automatically. Please remove all kinds of wires on the ground before start cleaning (including the power cord of the charging cradle), tidy wires up to avoid the electrical outages, damage product or wire.

Recharging

Automatic mode: After cleaning, the robot will automatically return to the charging dock to recharge.

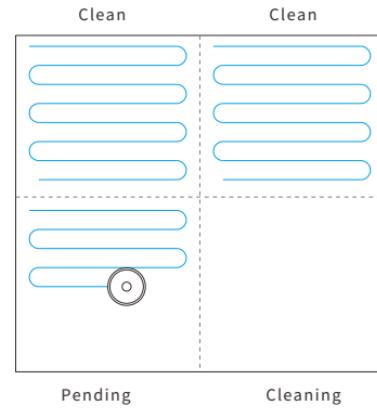
Manual mode: In the pause state, turn right the LDS button to start recharging or use the mobile phone APP to control the robot, and the indicator light will flash when recharging.

Note:

If the robot does not find the charging dock, it will return to the starting position. Please manually put the robot back into the charging dock for recharging

Cleaning preferences

After startup, the robot will plan its cleaning route based on its scan of the area. It cleans along the edges of a zone first and then moves in a bow-shaped cleaning route to cover the internal area efficiently and thoroughly. After cleaning, the robot will automatically return to the charging cradle to recharge.



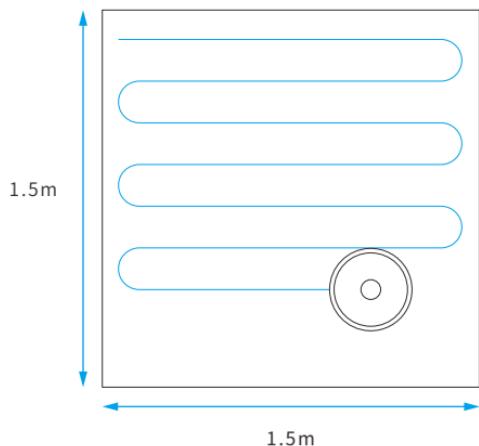
Note:

During cleaning, do not move the robot frequently. After moving, please put the robot near the original place, then restarting the cleaning robot will try to relocate its own coordinates. After the relocating is successful, it will continue cleaning according to the planned path. If the relocating fails, the device will abandon the previous task to rebuild the map and clean, and may fail to recharge.

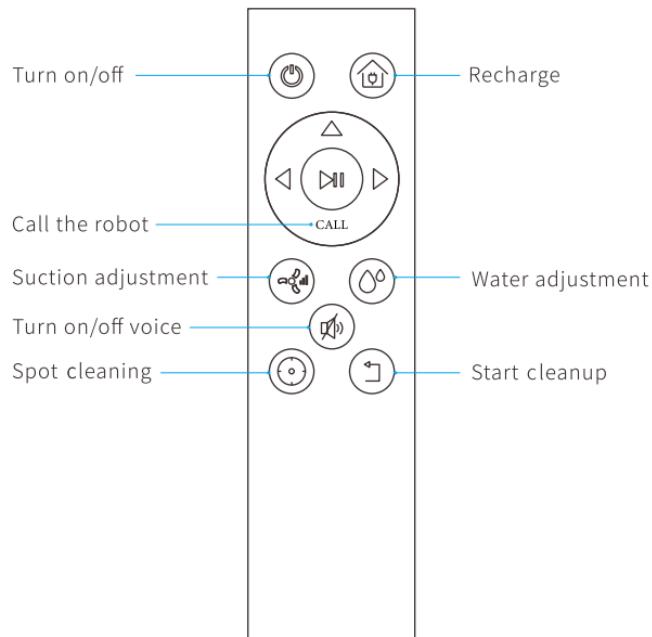
Instruction for Use

Spot cleaning

When you select Spot Cleaning on app, robot will intensely clean a localized area by spiraling outward about 1.5M*1.5M and then spiraling inward to where it started.



Remote control (optional)



Note:

When the robot is under mopping mode, the robot cannot work on blankets and carpets due to carpet sensor.

Instruction for Use

Customize area cleaning

Use the mobile app to set the size and location of the area to be cleaned. One or more regions could be set. The robot will clean according to the set area.

No go zones

Use the mobile app to set the no go zones. One or more regions could be set, and the robot will not enter the area.

Note:

The robot may intrude into the no go area due to error positioning, abnormal sensor, etc.
The no go area may fail due changeing the position of the charging dock or furniture, so please do not move the robot during the cleaning.
Rebuilding the map will lose the setting of the no go area.

Schedule

Use the mobile app to set the scheduled cleaning time. The robot will automatically start cleaning at the specified time and return to the charging dock.

Reset WiFi

When the router's configuration, password or other reasons cause the mobile phone failed connect to the robot, please turn the LDS button to the right and hold it for more than 5 seconds, until the voice prompts "start to connect WiFi" and the indicator light turns purple. When indicator flashes slowly, it means that the reset was successful.

Do not disturb mode

During the do not disturb time period, the robot will not automatically clean and actively play voice, you can use the mobile APP to turn on or off the do not disturb mode.

Suction adjustment

Use the mobile app to select high, medium and lowmodes.

Water adjustment

Use the mobile app to turn on water adjustment function and select high, medium and low modes.

Maintenance

(Regular cleaning is recommended)

Main brush

- 1.Turn the robot over unlatch the cover and remove the main brush.
- 2.Use the supplied cleaning tool to remove any dust or entangled hair.
- 3.Re-insert the main brush and replace the brush cover.

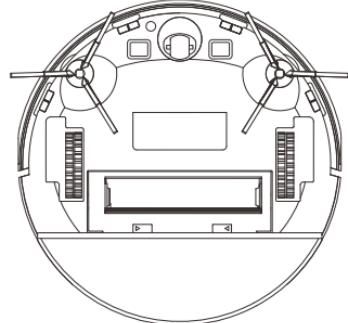
Main brush cover



Main brush



Robot

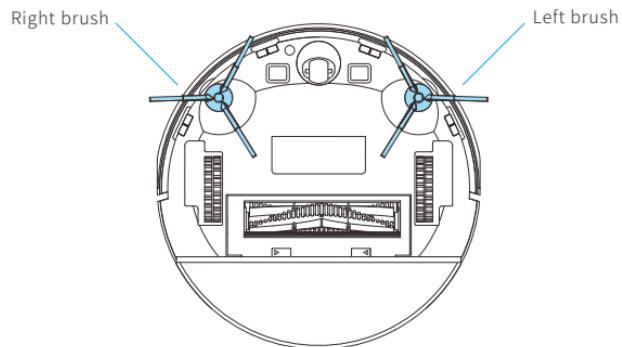


Side brushes

- 1.Turn the robot over and pull out the side brushes vertically
- 2.Remove all the dust or entangled hair.
- 3.Match the side brushes and the letters L and R on the bottom case, press down to put back

Note:

It is recommended to replace the side brushes every 3 - 6 months to ensure the cleaning quality.

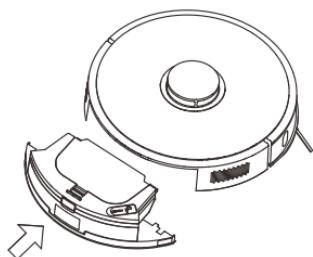


Maintenance

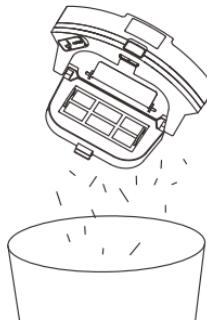
(Regular cleaning is recommended)

Dust bin

1. Disassembly dust bin

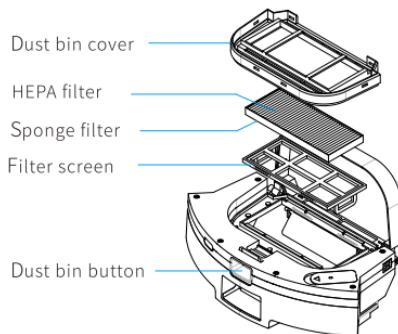


2. Clean dust bin



Clean filter parts

1. After a long period of use, remove the filter screen, filter sponge and HEPA filter
2. Remove the filter screen, filter sponge, HEPA filter, dust box under the tap and rinse
3. After cleaning, shake out the water and dry the filter and dust bin until they are thoroughly dried before re-install.
4. After thorough drying, install the dust bin assembly in the order of HEPA filter - sponge filter - filter screen.



Note:

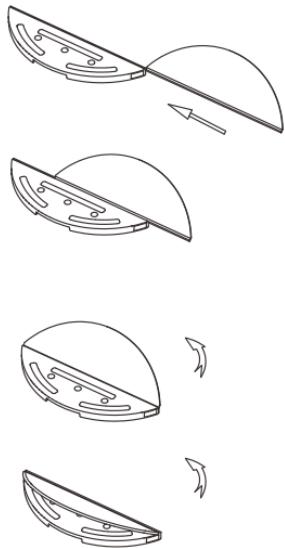
Please rinse with water without any detergent. Do not use brushes or fingers to clean the filter. Air dry the filter for at least 24 hours to dry thoroughly. It is recommended to change the filters every 3-6 months

Maintenance

(Regular cleaning is recommended)

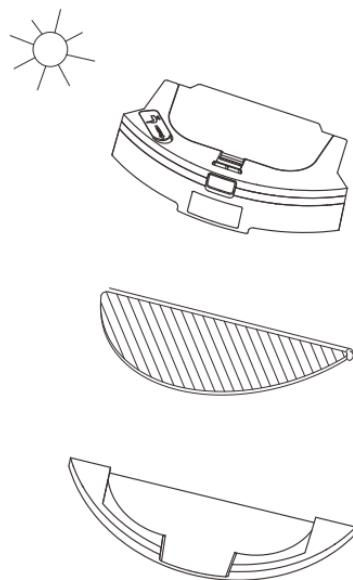
Mop module

1. Remove water tank and mop, pour out water



Mopping module

2. Clean and dry mop and water tank



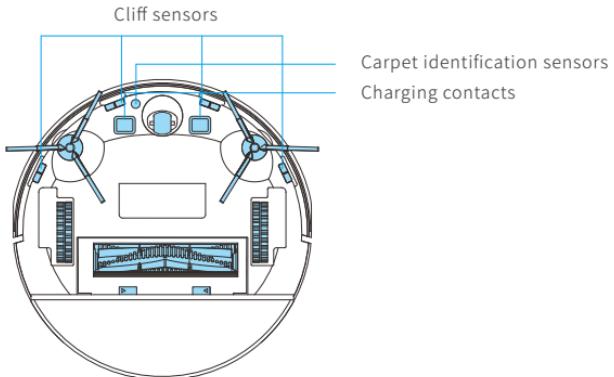
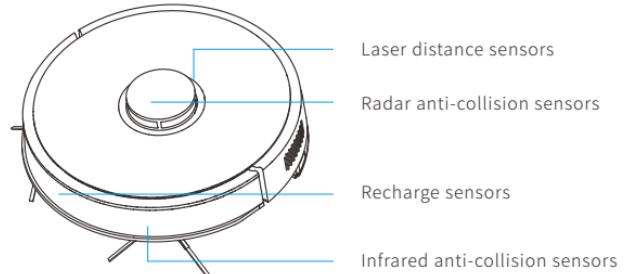
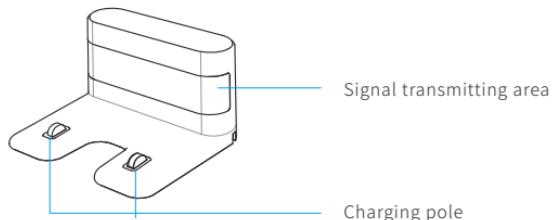
Maintenance

(Regular cleaning is recommended)

Sensor

Wipe each sensor on the machine with a soft cloth, including:

1. The sensor along the wall on the right side of the robot
2. The three cliff sensors on the bottom of the robot
3. The Infrared anti-collision sensors on the front of the robot
4. Radar anti-collision sensor on the top of the robot
5. Charging contacts at the bottom of the robot, butting charging pole piece (disconnect when cleaning)
6. Charging dock signal transmitting area



Maintenance

(Regular cleaning is recommended)

Battery

The robot has a high performance rechargeable battery pack. To maintain battery performance, please keep the robot charged for daily use.

If not in use for a long period of time, please turn off the robot and recharge it at least once every three months to avoid damage to the battery.

Firmware upgrade

After the new firmware is detected, follow the instructions to upgrade. It is recommended to place the robot on the charging dock for firmware upgrade.

Resetting the system

Please remove the dust bin and press the system reset button and the current map will be deleted after the reset. Timing, WiFi and personalisation settings will be retained.

Technical Specifications

Robot vacuum cleaner

Model	20308	20308 Turbo	20308 Max
Product size	345*345*98mm	345*345*98mm	345*345*98mm
Product weight	3.3kg	3.5kg	3.5kg
Battery capacity	3200mAh	5200mAh	5200mAh
Working voltage	14.8V	14.8V	14.4V
power consumption	45W	50W	50W

Charging dock

Size	160*143*80mm
power consumption	19W
power consumption	19W

FAQ

Questions	Solutions
Cannot turn on your robot	Please put the robot on the charging dock and align the charging pole piece when the battery is low. Then the robot will automatically turn on (when the battery is completely dead, it will take a while to automatically turn on). Please use the device in the environment of 0-40 degrees Celsius (32-104 degrees Fahrenheit).
Cannot charge your robot	Please remove the robot, and check whether the indicator light of the charging dock is on, both ends of the power adapter of the charging dock are plugged in, the front of the robot is facing the charging dock, and the distance between the front of the robot and the charging dock is 2 centimeters. Please clean the charging contacts on the robot and charging dock. You can remove the side brush when the contact is poor.
Cannot back to the charger	The device is too far from the charging dock, please try to place the device near the charging dock.
Wrong working behavior	Please turn off and turn on the robot.
Strange sounds when the machine work	The main brush, side brush or wheels may be entangled with other objects. Please stop the robot and clean it up.
Cleaning ability get worse	1. The dust bin is full. Please clean the dust bin. 2. The filter is clogged. Please clean or replace the filter. 3. The brushes are entangled by other objects. Please clean the brushes.
Cannot connect with Wifi	1. When Wi-Fi signal is not good, please make sure the robot is in a good Wi-Fi signal coverage area. 2. When Wi-Fi connection is abnormal, please reset Wi-Fi and download the latest app and connect again. 3. The robot only supports the 2.4G frequency band. Please check if the password is incorrect or the frequency band is correct.
Cannot book the cleaning schedule	The scheduled cleaning function will only be activated when the remaining power of the robot is greater than 20% or greater than 30% while charging on the dock.
Does the robot consume power when staying on the dock?	The power consumption will be low when the robot is on the charging dock. It is conducive to keep the battery at the best performance.
Do the robot need to be charged for 16 hours the first three times using?	The robot uses lithium battery and it can be charged at any time without electricity memory effect. The machine can be used when fully charged, no need to wait.

Trouble Shooting

Warning	Solutions
Error 1: Dust bin out.	Please put the dust bin back.
Error 2: Top sensor may be blocked, please check	Please remove the object on the top radar and use it indoors.
Error 3: Vacuum motor error.	If the vacuum cleaner is abnormal during the cleaning process, please contact professional after-sales personnel.
Error 4: Clean the bottom sensor and restart in new position	Please wipe the cliff sensor with a soft and dry cloth, move the device to a flat ground, and then restart it.
Error 5: Please wipe the front sensor, and move to a new location to restart.	Please wipe the front infrared anti-collision sensor with a soft and dry cloth.
Error 6: Clean the right ToF sensor and restart in new position.	Please wipe the ToF sensor with a soft and dry cloth.
Error 7: Please check Top sensor cover and restart in new position.	Please wipe the top radar sensor cover with a soft and dry cloth.
Error 8: Bumper may be stucked, please check.	Please check whether the bumper does not rebound.
Error 9 : Main wheel may be stucked, please check.	Please check whether wheels are entangled with other objects.
Error 10: Please restart in new position.	When the robot is picked up during working, all function will stop. Please put the robot back on the ground.

Trouble Shooting

Warning	Solutions
Error 11: Robot blocked, trying to escape.	Please move the robot to a new location.
Error 12: Robot inclined, restart in level surface.	Please place the robot to a level ground and lay flat.
Error 13: Side brush may be stucked , please check.	Please check the side brush and clean up objects.
Error 14: Brush bar may be stucked, please check.	Please check the main brush and clean up objects.
Error 15: Clean the bottom sensor and restart in new position.	Please move the robot to a new position.
Error 16: Charge station not found.	The device cannot return to the charging dock for a long time, please check the power status of the charging dock.
Error 17: The virtual wall or restricted area setting error	Check the app setting
Error 18: Charge failed.	The robot detects that the battery has been pulled out or has abnormal contact.
Error 19: Battery low.	Put the robot on the charging dock to charge.
Error 20: Mop out.	Check to see if the mop holder is loose or not in place.

Safety Instructions

Usage Restrictions

- This robot is only used for floor cleaning in your home. Please do not use it outdoors (such as open balconies) and non - floor area (such as sofas, comercial or industrial environments).
- Do not use it in a dangling environment without guardrail (such as duplex floors, open balconies, and top of the furniture).
- Do not use it in an environment higher than 40 degrees Celsius (104 degrees Fahrenheit), lower than 0 degrees Celsius (32 degrees Fahrenheit) or with any liquid and viscous material on the ground.
- Please hang up the ground cable at your home before using to aviod dragging the cable when the device is running.
- Please tidy up fragile items and sundries on the ground (such as vases, plastic bags, etc .) to avoid damage of valuables at your home caused by the device being blocked or slightly collided during operation.
- Do not let children use the robot as a toy. Please keep an eye on your children and pets as far away as possible when the robot is working.
- Do not place cleaning brushes where children can touch.
- Do not place any items on the robot, including children and pets.
- Do not let human or pet's hair and fingers close to the vacuum port when the device is working.
- Do not use device to clean any burning objects (such as unextinguished cigarette butts).
- Do not use it for cleaning the long-haired carpets (some dark carpets may not be cleaned properly).
- Do not let the robot pick up hard or sharp objects (such as decoration waste, glass, iron nails, etc.).
- Do not use the laser ranging sensor protective cover and bumper as a handle to carry the machine.
- Please clean or maintain the main unit and charging dock when the power is off.
- Do not wipe the robot with a wet cloth or any liaquid.
- Please follow instructions when using the robot. Any loss or injury caused by improper usage shall be beared by the user.
- Do not use mopping function on carpets or on the top of furniture.
- Be sure to remove the water tank when charging.

Safety Instructions

Battery and charging

- Do not use any third-part batteries, charging dock or adapter.
- Do not replace, disassemble, or repair the battery or charging dock without permission. Do not place the charging dock near a heat source (such as a radiator).
- Do not use a damp cloth or wipe with wet hands to clean the contact springs of the charging dock.
- Do not throw away the old batteries at will. They should be recycled by professional recycling agencies.
- If the power cable is damaged or broken, please stop using it immediately and purchase a new one through official channels.
- If you want to ship your robot, please ensure that the robot is turned off, and it is recommended to use the original box for packaging.
- If the robot will not be used for a long time, please turn it off after fully charging and store it in a cool and dry place. Also, please charge the battery at least once every three months to avoid excessive discharge of the battery, which may damage the battery.

FCC WARNING

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.

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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.