

Please read this guide first!




Dear Customer,

Thank you for choosing a Hitachi product. We would like you to achieve the optimal efficiency from this high quality product which has been manufactured with state of the art technology.





Please make sure you read and understand this guide and supplementary documentation fully before use and keep it as a reference. Include this guide with the unit if you hand it over to someone else. Observe all warnings and information herein and follow the instructions.

Symbols and their meanings

These symbols are used throughout this guide:

	DANGER	This indicates warnings that, if ignored, could present imminent danger of serious injury or death.
	WARNING	This indicates warnings that, if ignored, could result in serious injury or death.
	CAUTION	This indicates warnings that, if ignored, could result in minor injury or property damage.

Warning symbols used in this manual

	Important information and recommendations regarding the use of the appliance.
	This indicates warnings or cautionary notes.
	This indicates prohibited actions that must not be performed.
	This indicates instructions that must be followed.



Protection class against electric shock.



Safety precautions

Please follow these safety precautions.

This section describes safety precautions that must be followed in order to prevent injury to the user or other people, or damage to property. Please thoroughly read and follow the precautions in this manual.

- The severity of injury or damage that might occur if these precautions are ignored or the vacuum cleaner is used improperly is classified and explained below. Hitachi is not responsible for any injury or damage that occurs as a result of ignoring these precautions.
- The device complies with international safety standards.



DANGER



- **Do not repair or modify any part of the vacuum cleaner. Do not disassemble any part of the vacuum cleaner unless instructed to in this manual.**

Failure to heed this warning might cause leaking of the battery, the generation of heat, fire, or injury.

- **For repairs, please contact a Hitachi authorized service agent.**
- **Keep the vacuum cleaner and AC adapter away from water and other liquids.**

Failure to heed this warning might lead to rupturing of the battery, fire, malfunction, or electric shock.

- **Do not connect the terminals of the vacuum cleaner and AC adapter with metal objects such as a wire and pin.**
- **Do not carry or store with metal necklaces, hairpins, etc.**

Failure to heed this warning might cause the vacuum cleaner to malfunction or cause the battery to short-circuit, resulting in leaking, the generation of heat, rupturing, or fire.

- **Do not throw into fires or apply heat.**
- **Do not charge, use, or leave near sources of heat such as fire or a stove, under direct sunlight or in cars exposed to the sun, etc.**

Failure to heed this warning might cause the battery to leak, generate heat, rupture, smoke, fire, deform, or malfunction.



WARNING



Warranty will be voided if the appliance is used for industrial or commercial purposes.



This appliance is designed for vacuuming dirt and dust particles. Do not attempt to use it on large objects which could block and damage the appliance.



This appliance is not designed for cleaning people or animals.



Only use original Hitachi accessories when replacing parts.



Check if the mains voltage on the rating label corresponds to your local mains supply.



Prevent damage to the power cable by not squeezing, bending, or rubbing it on sharp edges.



Avoid using extension cables or multipoint connectors. Plug the appliance directly in a wall socket if possible.



Keep packaging materials away from the reach of children.



Do not dismantle the appliance under any circumstances. No warranty claims are accepted for damage resulting from improper handling.



Keep hair, loose clothing, fingers, and all parts of the body away from openings and moving parts. Failure to do so could result in electric shock or personal injury.



WARNING

Outlet, plug, cord, and AC adapter



- **Use an 100-240V outlet.**

Do not use an extension cord, and do not plug the AC adapter in the same outlet as other appliances.



- **Periodically clean the plug of any dust and debris by using a dry cloth.**
- **Insert the plug of the AC adapter all the way into the outlet.**
- **Do not damage the cord.**
(Do not damage or modify the cord. Do not forcefully bend, bundle, pull, or twist it, and do not put it under heavy objects or pinch it between objects.)
- **Do not use the vacuum cleaner if the cord or the AC adapter's plug or connector is damaged, and do not plug the AC adapter into a loose outlet.**
- **The supply cord cannot be replaced. If the cord is damaged the appliance should be scrapped.**
- **Do not handle the plug (insert the plug into an outlet or remove the plug from an outlet) with wet hands.**
- **Do not touch the terminals on the AC adapter or vacuum cleaner.**
- **To charge the vacuum cleaner, use the AC adapter that was provided with the vacuum cleaner. Do not attempt to charge the vacuum cleaner by using other AC adapters.**
- **Do not use the AC adapter that was provided with the vacuum cleaner to charge any other type of battery, even if the battery in question is a rechargeable battery.**

Failure to heed this warning might cause fire or electric shock.

If the vacuum cleaner malfunctions or you notice any of the following problems, stop using the vacuum cleaner immediately.



- The vacuum cleaner does not turn on when you press a control buttons, even though the battery is fully charged.
- The power turns on and off when you move the AC adapter cord or connector.
- The vacuum cleaner sometimes stops in the middle of operation.
- The vacuum cleaner makes strange sounds in the middle of operation.
- The vacuum cleaner or AC adapter is deformed or abnormally hot.
- The power cord is damaged or abnormally hot.
- It smells like something is burning.
- You notice some other problem or malfunction.

Continuing to use the vacuum cleaner under these conditions could result in smoke, fire, or electric shock.

Turn off the vacuum cleaner immediately and unplug the AC adapter from the outlet. Then, contact a Hitachi authorized service agent to request an inspection and repair.



WARNING

Others



- Do not use the vacuum cleaner near inflammable or combustible items or materials (kerosene, gasoline, paint thinner, benzine, toner, iron powder, detergents, large amounts of flour, aerosol sprays, flammable gas, cigarette butts, etc.), or to clean up such items or materials.
- Do not use the vacuum cleaner to clean up things with sharp points (thumbtacks, needles, toothpicks, hairpins, etc.).
- Do not use the vacuum cleaner to clean up suds or foam from carpet cleaners or other types of detergents.
- Do not use the vacuum cleaner outdoors.
- Do not wash any part of the vacuum cleaner with water unless that part is listed as a part that can be washed. Do not use the vacuum cleaner in the shower or bathtub.
- Do not charge or store the vacuum cleaner in a location prone to high humidity.
Failure to heed this warning might cause eruption, fire, electric shock, or injury.
- Do not lean the vacuum cleaner against a wall or other surface.



CAUTION

Outlet, AC adapter, cord



- **Hold onto the AC adapter when you unplug it. Do not pull on the cord.**
Pulling on the cord might damage the cord and cause short-circuiting, resulting in electric shock or fire.
- **Do not wrap the cord around the charging station.**
Damaging the cord might cause electrical shock or fire.
- **If you will not be using the vacuum cleaner for a long time, unplug the AC adapter.**
Failure to heed this warning might lead to deterioration of the insulation, causing electric shock, short-circuiting, or fire.

Exhaust port



- **Do not block the exhaust port.**
Failure to heed this warning might cause overheating, leading to fire or the deformation of the vacuum cleaner.
- **Do not use the appliance without filters, it may get damaged.**



CAUTION

Others



- **When carrying the vacuum cleaner, do not hold the dust case.**
The vacuum cleaner might fall and cause injury or damage the floor.
- **Keep away from fire.**
Failure to heed this warning might cause short-circuiting due to vacuum cleaner deformation, resulting in fire.
If the vacuum cleaner is used near a flame, exhaust from the vacuum cleaner might cause the flame to grow into a conflagration.
- **Turn off the vacuum cleaner before performing maintenance.**
Failure to heed this warning might cause injury.
- **Do not put the charging station where dew condensation occurs or in a humid place.**
This might discolor the wall.
- **Do not drop the vacuum cleaner, AC adapter, charging station, or any of the attachment accessories from high places.**
Failure to heed this warning might cause injury or damage to the floor or dropped part.
- **Do not put weight on the appliance.**
- **Do not run the appliance on high grounds like table or chair.**
- **Children should be supervised to ensure that they do not play with the appliance.**
- **This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.**
- **Only allow children at least 8 years old to use the AC adapter. Give sufficient instruction so that the child is able to use the AC adapter in a safe way and explain that it is not a toy and must not be played with.**
- **Instruct the child not to try and recharge non-rechargeable batteries because of the danger of eruption.**
- **Examine the AC adapter regularly for damage, especially the Cord, plug and enclosure. If the AC adapter is damaged, it must not be used.**
- **Cleaning and user maintenance shall not be made by children without supervision.**
- **Never operate the appliance without the filter.**
- **Clean the filter when necessary.**



Battery (lithium-ion battery)



DANGER



- **Do not connect the battery to anything other than this vacuum cleaner. Do not disassemble, modify, or solder the battery. Do not charge the battery when it is not connected to the vacuum cleaner. Replacement of the battery is to be performed by a trained service technician.**

Do not remove the battery except when disposing of this vacuum cleaner. Please consult with a Hitachi authorized service agent.

- **Do not touch the terminals or connect them by using metal items such as wires and pins.**
- **Do not transport or store the battery in the same container as metal objects such as necklaces, hairpins, coins, or keys.**
- **Do not subject the battery to strong physical shock. For example, do not put nails into the battery, hit the battery with a hammer, step on the battery, or throw the battery.**
- **Keep away from fire.**
- **Do not use any battery other than the one specified for this vacuum cleaner.**
- **Do not put the battery in a microwave or an oven.**
- **Do not submerge the battery in water or other types of liquid, or expose it to water or other types of liquid.**

Failure to heed this warning might cause the battery to leak, generate heat, rupture, smoke, fire, electric shock, or injury.



- **If the liquid inside the battery enters your eyes, do not rub your eyes, but thoroughly wash them with clean water immediately, and then consult a doctor.**

Failure to do so might cause damage to your eyes.

- **Do not short circuit the supply terminals.**



WARNING



- **Do not use the battery if it is leaking or has an abnormal odor, discoloration, deformation, or damage due to being dropped or you notice something unusual.**

Failure to heed this warning might cause the generation of heat or smoke, rupturing, or fire. If liquid from the battery leaks onto the floor, it might damage the floor.

- **Keep the battery away from infants and children.**
- **If the battery is leaking, do not touch it with bare hands.**
- **Do not use batteries of different types or old and new batteries together.**



- **If liquid from the battery gets on your clothes, immediately wash them in clean water. If the liquid gets on your skin, consult a doctor.**

Failure to heed this warning might cause skin irritation.

- **Unplug the adaptor and remove the battery pack before any cleaning or maintenance procedure.**
- **Batteries shall be removed from the appliance before discarding the appliance.**
- **Please discard used batteries in accordance with local laws and regulations.**



CAUTION



- **When charging the battery, make sure the ambient temperature is between 5°C and 35°C.**

Charging the battery in temperatures outside of this range might prevent the battery from being fully charged. As a result, the battery might take a long time to charge, or you might only be able to use the vacuum cleaner for a short time. Failure to heed this warning might cause the battery to deteriorate.

- **If the battery is still charging longer than the specified charging time, unplug the AC adapter.**
- **Store the vacuum cleaner in a location with low humidity or little dust and debris.**

Failure to heed this warning might cause the generation of heat or smoke, rupturing, or fire.

1 Important safety and environmental instructions

Cleaning and care

Warning

- Never use gasoline, solvent, abrasive cleaning agents, metal objects or hard brushes to clean the appliance.

Storage

- If you do not intend to use the appliance for a long time, store it carefully.
- Unplug the appliance.
- Keep the appliance out of the reach of children.

Handling and transportation

- During handling and transportation, carry the appliance in its original packaging. The packaging of the appliance protects it against physical damages.
- Do not place heavy loads on the appliance or on the packaging. The appliance may get damaged.
- Dropping the appliance may render it nonoperational or cause permanent damage.

Waste batteries



Ensure that the waste batteries are disposed of in accordance with local laws and regulations.

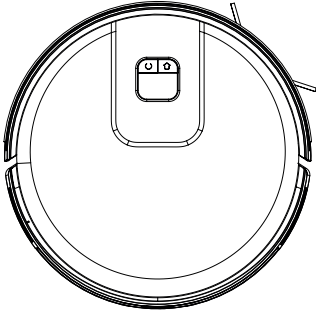
The symbol on the battery and packaging indicates that the battery delivered with the product should not be considered as household waste. This symbol may be used in combination with a chemical symbol in some regions. If the batteries contain more than 0.0005 % mercury and more than 0.004 % of lead, the Hg chemical is added for mercury and the Pb chemical symbol is added for lead under the symbol. By ensuring that the batteries are disposed correctly, you shall contribute to the prevention of potential damage to the environment and human health due to improper disposal of the batteries.

What to do for energy saving

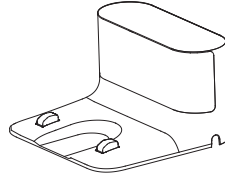
- When using your appliance, adjust the speed settings according to the surface, in order to save energy.
- Normally, lower speeds are used when cleaning hard surfaces while high speeds are used in for cleaning carpets.

2 Overview

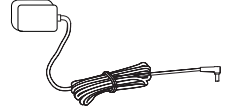
2.1 Box content



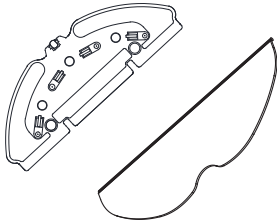
Robot Vacuum Cleaner



Charging dock



Charge adaptor

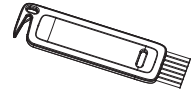


Mopping tool

Mopping cloth






User's manual and product documentation (2 pcs)

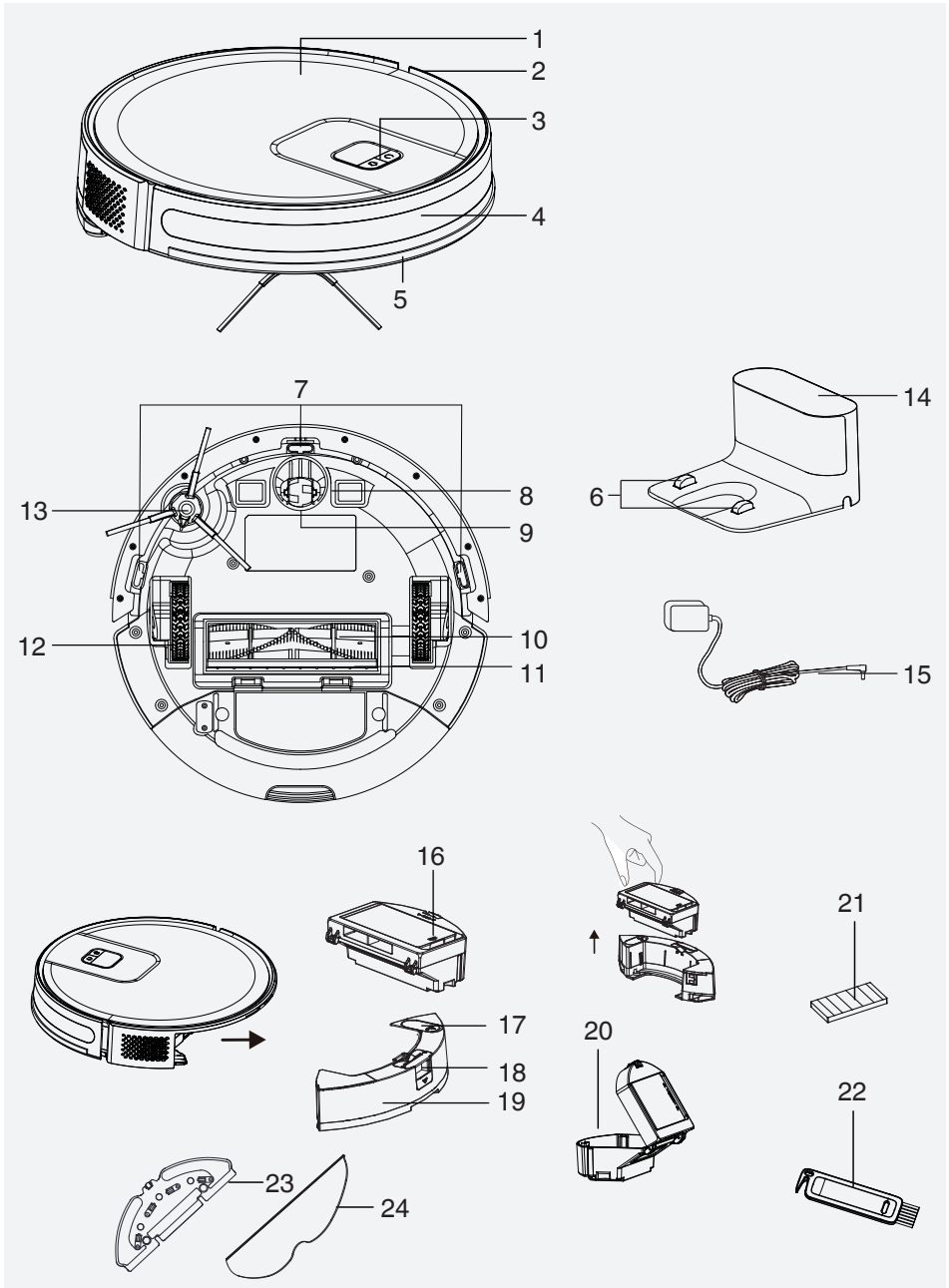


Cleaning brush

Spare accessories supplied

	1 side brush
	1 mopping cloth
	1 filter

2 Overview



2 Overview

2.2 Controls and components

1. Upper body
2. Central body
3. Start Cleaning-Pause Button / Sending to Charging Stand button
4. Recharge Sensor
5. Front bumper
6. Charging pins
7. Fall prevention sensor
8. Charging pins
9. Front rotating wheel
10. Rotating brush
11. Rotating brush cover
12. Rear wheel
13. Side brush
14. Charging dock
15. Charge adaptor
16. Robot vacuum container HEPA filter opening lid
17. Mop water container filling lid
18. Robot vacuum dust container ejection button
19. Mop water container
20. Dust container
21. HEPA filter
22. Cleaning brush
23. Mopping tool
24. Mopping cloth

2.3 Technical data

Adapter voltage	100-240V~ 50/60Hz
Adapter output	19.0 V / 0.6A
Battery	Li-ion: 14.4V / 3.2 Ah
Charging period:	5.5 – 6.5 hours
Operation time	Up to 170 minutes (in mute position)
Dust container capacity	0.4 L
Water tank capacity	0.3 L
2.4G Wi-Fi frequency range	2412-2472 MHz
Supported Connections	WLAN IEEE 802.11 b/g/n wireless
2.4G Wi-Fi maximum RF output power	20 dBm
RF exposure information	2.4G Wi-Fi maximum
Operating time	Maximum: 105 mins Powerful: 95 mins Standard: 140 mins Quiet: 170 mins

RF exposure information : The maximum allowed exposure level is calculated according to the 20 cm distance between the appliance and the human body. To comply with the RF exposure condition, a distance of 20 cm should be put between the appliance and the person.

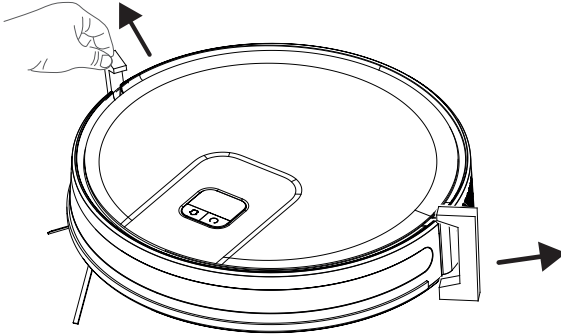
The rights to make technical and design changes are reserved.

2 Overview

	Parameter of External Power Supply
Manufacturer	E-TEK Electronics Manufactory Co., LTD
Model Identifier	ZD012A190060EU : VDE type plug shape ZD012A190060BS : BS type plug shape
Input Voltage	100-240V~
Input Frequency	50/60Hz
Input Current	0.5A
Output Voltage	19.0V DC
Output Current	0.6 A
Output Power	11.4W
Average active efficiency	86.37%
Efficiency at low load(10%)	85.71%
No-load power consumption	0.074W

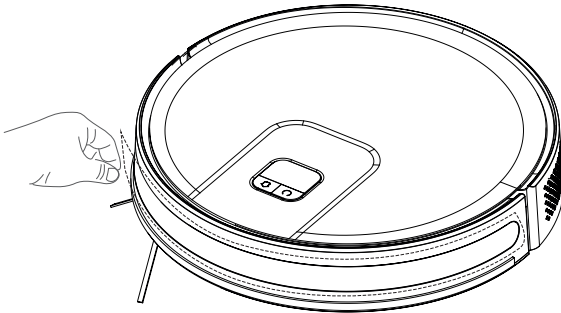
3 Installation

3.1 Remove the protective sponges.



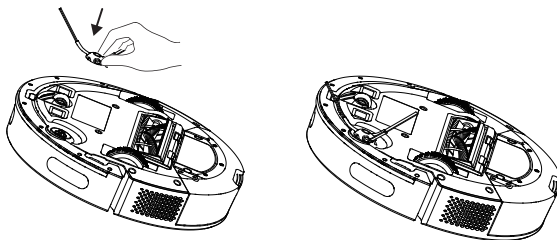
3.2 Remove the protective film.

Remove the protective film on the front of the front impact bumper before use.



3.3 Install the side brush.

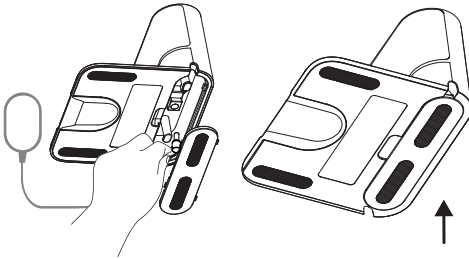
Side brush installation: align the holes and press gently to fix the side brush on the device.



3 Installation

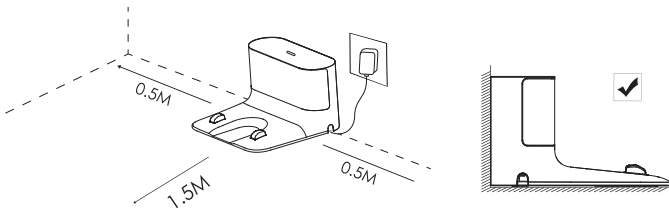
3.4 Install the charging station.

Install the adaptor plug to the charging station and set the cables up to prevent the adaptor cable from wrapping around the machine during vacuuming.



Install the charging station in a location where it can easily be accessed by the vacuum cleaner. Install the charging station on a hard and level ground rather than a carpet.

To ensure a smooth operation of the robot, it is advised that no obstacles are present within 1.5 m on the front and within 0.5 m on the left and right sides.



Always keep the charging station plugged, otherwise the robot vacuum cleaner cannot return to the charging station automatically.





For a smooth charging operation, do not move the charging station. When the location is changed, it may delete the available map and create a new map due to the positioning error.

4 Operation

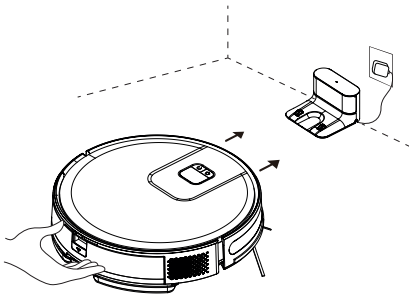


Please charge the machine before first use.

4.1 Intended use



This appliance is intended for household use and it is not suitable for industrial use. Press and hold the  for 3 seconds to turn on. Press and hold the  for 3 seconds to turn off.

1. Place the appliance to the charging station so that it shall be aligned with the charging communication pins.

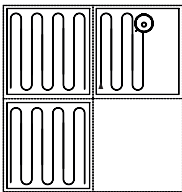



Charging starts when the white indicator on the charging station goes off, charging will begin.

4.2 Operation

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

Starting the cleaning



Short press the  to start the automatic cleaning mode. The robot will leave the recharging dock after being turned on, clean in “Z” route, and then clean the area along the wall, and delimit another 4m x 4m area.

It repeats the above process continuously till cleaning of the whole room is completed, and additionally cleans areas uncovered in the process, and returns to the recharging dock after cleaning.

4 Operation



WARNING: If the charging level is too low, the cleaning cannot be started. Please charge the appliance before starting the cleaning.



WARNING: Before the cleaning, tidy up all cables to prevent disconnections due to entanglement/pulling of the cables and to prevent damage to the furniture.



WARNING: In the auto mode, by default the machine will do sweeping twice if the sweep duration is shorter than 10 minutes.




WARNING: Do not move the charging dock during cleaning and make sure that the station is plugged; otherwise the robot vacuum cleaner may not be able to return for recharging.

Pausing

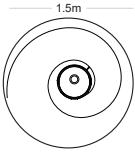
Pressing any button will stop the robot while working.


Automatic charging: The robot vacuum cleaner returns automatically to recharge after the cleaning is completed.

Manual charging: a. Please press  shortly when pausing to begin automatic recharging. b. Please manually put the robot back to recharging dock if the robot is stuck or cannot find the recharging dock.

4 Operation

Spot Cleaning (supported with the relevant mobile application only)



Move the sweeping robot to the area to be cleaned, press the  twice. After the mode is activated, the sweeping robot will sweep the circular area with a diameter of 1.5 m calculated from its own position.



The sweeping robot cannot enter the fixed-point sweeping mode on the recharging dock.

Vacuum power selection

(Supported with the relevant mobile application only) You may select the desired cleaning power from the application:

- Quiet
- Standard
- Powerful
- Maximum

Remote controlled cleaning

(Supported with the relevant mobile application only) You may direct the robot vacuum cleaner to the area to be cleaned by using the manual remote control mode through the application.


Sleep

If it is inactive and the charging dock is not connected for 10 minutes, the machine will automatically switch to hibernation mode.

The robotic vacuum cleaner will switch to the sleep mode automatically if there is not operation within 10 minutes after it is fully charged.

Resetting the system

For APP account delete, the customer can press “remove the product and clear the account” button on the APP to delete all the data on the APP and cloud like clean histories, shared machine, WIFI account password...etc.

Press “” button for 15 seconds in standby position to reset the system. When the system is reset, the original settings on the robot vacuum cleaner are deleted.



4 Operation

4.3.1 Operation with the application

Download the application

To download the application, search for “HomeDirect-SDA” application in the mobile app store. Review the mobile application manual for detailed information.

Reset Wi-Fi

Press “ “” buttons simultaneously until you hear the aural warning and see the light blinking.

Add a device

- Open the app, create a new account and follow the instructions in the application.
- Before setting up the Wi-Fi, ensure that the robot vacuum cleaner and the Wi-Fi network meet the following requirements.

A. Robot Vacuum Cleaner:

- The charging level of the robot vacuum cleaner shall be over 20% or the robot vacuum cleaner shall be placed on the charging dock.

B. Wi-Fi network:

- Make sure the password of your wireless network (router) is correct.
- Do not use any VPN (Virtual private Network).
- Wi-Fi router shall support, 802.11b/g/n and IPv4 protocols.
- The router shall be in the 2.4GHz frequency band or a dual-band router that supports the 2.4GHz band shall be used. The robot vacuum cleaner does not support the 5GHz frequency band.
- If the robot vacuum cleaner cannot connect the 2.4/5GHz dual-band Wi-Fi network, please select 2.4GHz network for Wi-Fi settings. You may switch back to the other frequency band when the setting is completed.
- If you are connecting to a hidden network, please ensure that you enter the network name [SSID (sensitive to capitalization)] correctly and that you are connected to a 2.4GHz wireless network.
- If you are using a wireless network extender, please ensure that the network name (SSID) and the password are the same with the main network.

4 Operation

Wi-Fi connection error

Wi-Fi Status Indicator	Cause	Solution
White indicator normally on	The robot has been connected to the router, but cannot connect to the network.	<ul style="list-style-type: none">• Ensure that the modem is connected to the network.• Contact your network operator to see if there is a problem in the internet data.
Flashing slowly in white	The robot cannot connect to your wireless router.	<ul style="list-style-type: none">• Check whether the network name and password have changed.• Reset Wi-Fi connections if necessary.
	Your Wi-Fi connection has been reset or not yet set previously.	<ul style="list-style-type: none">• Establish Wi-Fi connection with the robot.• Reset Wi-Fi connections if necessary.
Flashing rapidly in white	The robot cannot receive a network signal.	<ul style="list-style-type: none">• Please clean up the electronic products around the robot.• If necessary, please reset the WiFi and select the AP mode.

- If other operations are triggered during the networking process, the indicator light changes, and the device still maintains the network configuration status.
- If the connection between the mobile phone and the robotic vacuum cleaner fails, you can reset the Wi-Fi to enter the network configuration mode and add the device again.
- Due to version upgrades and updates, please follow the APP internal guide for actual operation.

4 Operation

Network security requirements:

Use TKIP, PSK and AES/CCMP encrypted WPA and WPA2 networks.

4.4 Operation of the mop



WARNING: Do not use the mopping mode on a carpet.



WARNING: Do not put bleach or detergent in the water tank. These chemicals may damage the liquid channels that ensure the water flow in the robot vacuum cleaner or the pump.



WARNING: Remove the mopping unit while the robot vacuum cleaner is being charged or when it is not operated.

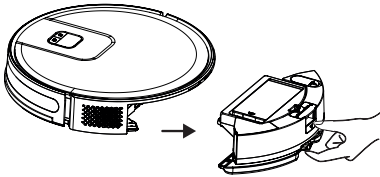


WARNING: Remove the mopping unit immediately after the mopping operation is completed to prevent damage to your wooden floors.

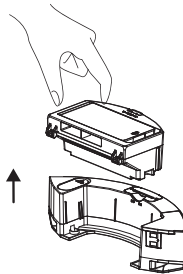


WARNING: The robot vacuum cleaner cuts off the water automatically when mopping is paused or ended. However, the mop remains wet and thus it shall not be kept at this condition for a long period and removed without delay.

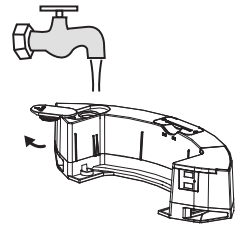
4.4.1 Installation of the wet mopping unit



Remove the dust container and the water tank assembly (2 in 1).

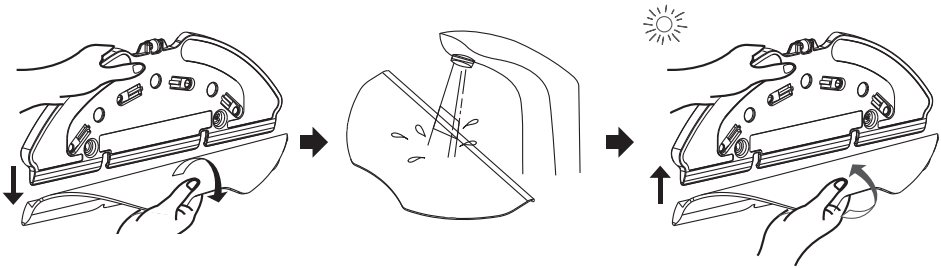


Remove the dust container.



Remove the rubber plug and add water to the water tank from the water inlet.

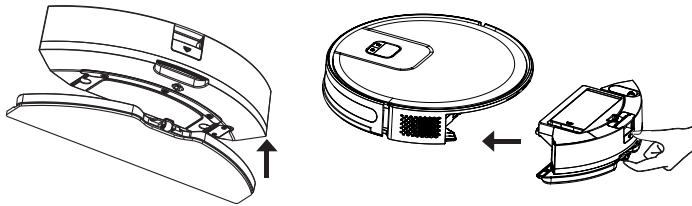
4 Operation



Remove the swab on the mop retainer as it is shown.

Moisten the swab before each mopping.

Place the swab to the mop retainer.



Install the mop retainer to the dust container and the water tank assembly (two in one) in the direction of the arrow.

Install the dust container and the water tank assembly (two in one) to the appliance, their places in the direction of the arrow.

4.4.2 Wet mopping setting

You may start the cleaning operation by selecting the cleaning mode and set the level of wetness during mopping as desired in the application.

It is suggested remove carpets from the floor to prevent the device from wetting the carpet when mopping the floor.

5 Cleaning and maintenance

Turn off and unplug the appliance before cleaning.



WARNING: Never use gasoline, solvent, abrasive cleaners, metal objects or hard brushes to clean the appliance.

5.1 Cleaning the dust container and filters



You may call our call center to order a new filter when your filter reaches the end of its expected life, is deformed or needs to be replaced for a reason.

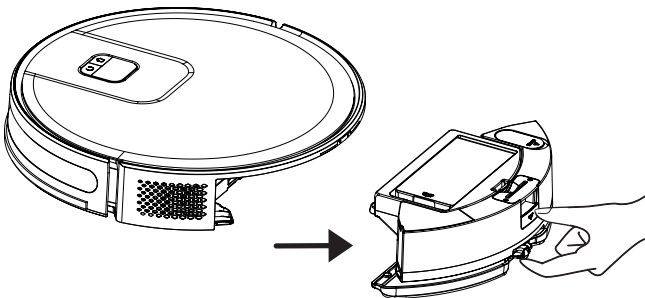


To achieve the maximum performance with HEPA filter, clean it with a brush after each cleaning.

HEPA filter is a replaceable accessory.

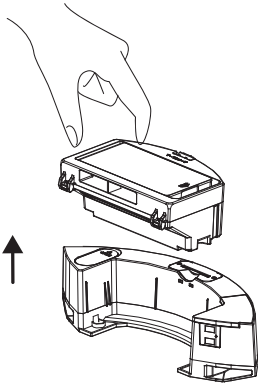
If you performed a cleaning operation in a space where there is construction dust and dust with very tiny particles, replace your filter with a new one in order not to experience a loss of performance.

1. Remove the dust container and the water tank assembly (2 in 1) by pressing the button as shown below.

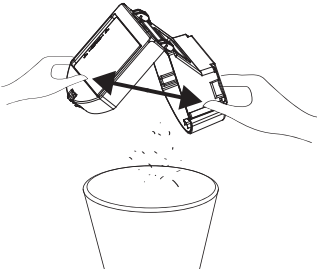


5 Cleaning and maintenance

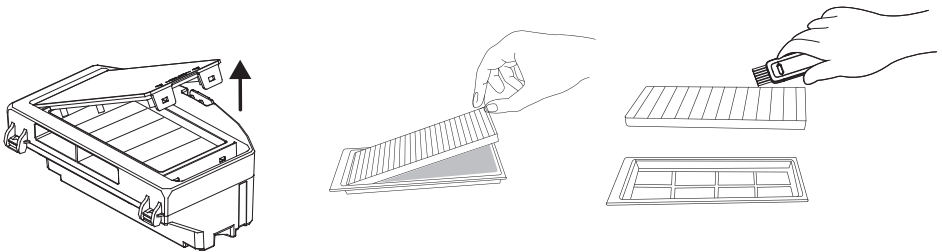
2. Remove the dust container by pulling it in the direction of the arrow.



3. Open the dust container as it is seen below and empty it as it is shown.

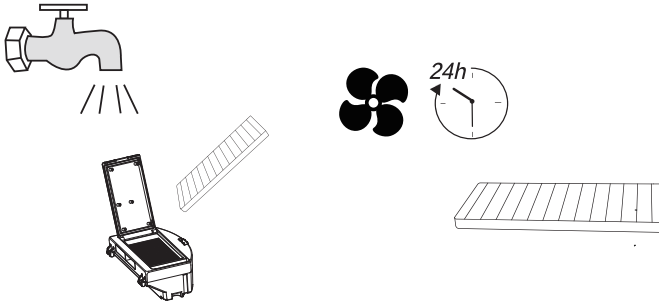


4. Remove the high performance filter and clean the filter using the cleaning brush provided together with the appliance.



5 Cleaning and maintenance

5. Wash the water tank, dust container and filter assembly periodically with cold water as required as per the frequency of operation.



6. Leave the water tank, dust container and filter assembly to dry after washing, and ensure that they are completely dried.



Drying may take 24 to 48 hours.

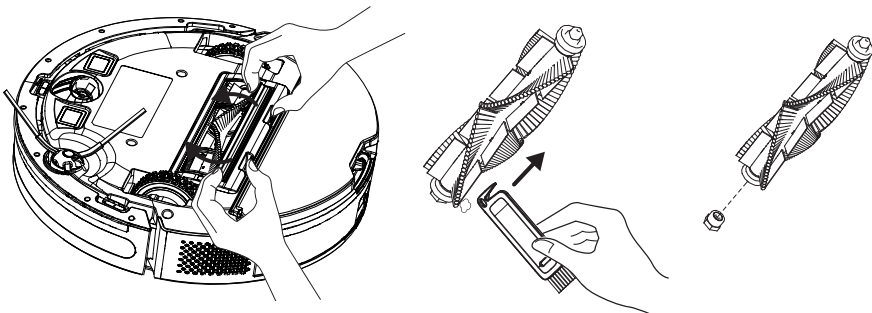
7. Assemble the water tank, dust container and filter assembly after drying them and then install the assembly to the vacuum cleaner.



WARNING: Do not operate the robot vacuum cleaner without installing the filter group. Otherwise, the appliance may get damaged.

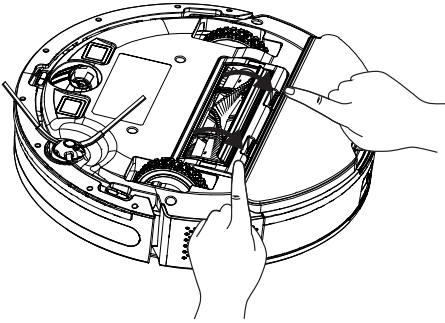
5.2 Cleaning of the brush

1. Open the upper cover of the main brush by pressing on the tabs. Pull and remove the main roll upwards. Cut the hair lapped on the roller brush with the cutting and sharp side of the cleaning brush. Then clean the dusts on the roller brush with the bristles of the cleaning brush.

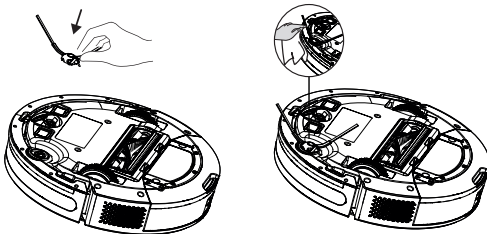


5 Cleaning and maintenance

2. Replace the brush after cleaning it and close the cover in the direction of the arrow.



5.3 Cleaning and installation of the side brush



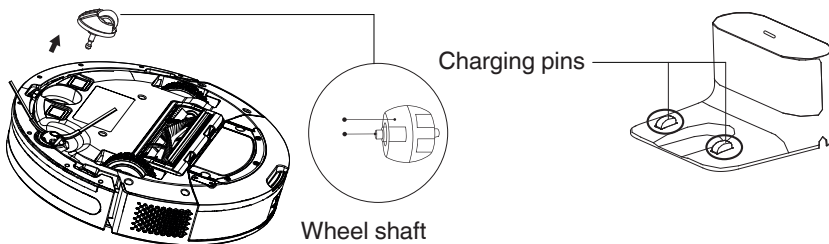
In the long term use, wash the side brush with warm water in order to eliminate the shape deformation.

Install it to the robot as it is shown after it has dried.

5.4 Cleaning of the Sensors & Front wheel

Clean the sensors and charging pins/electrodes regularly and remove the dust using a dry and soft cloth or a cleaning brush.

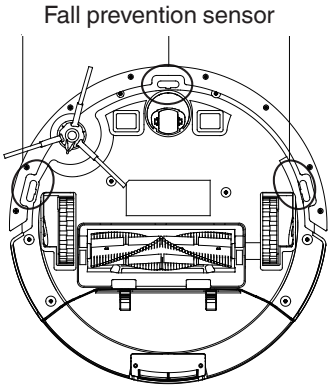
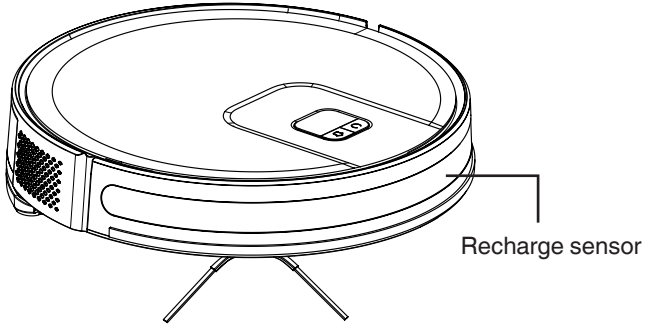
Information: You get a notification via the application when sensor cleaning is required.



5 Cleaning and maintenance

Clean sensors

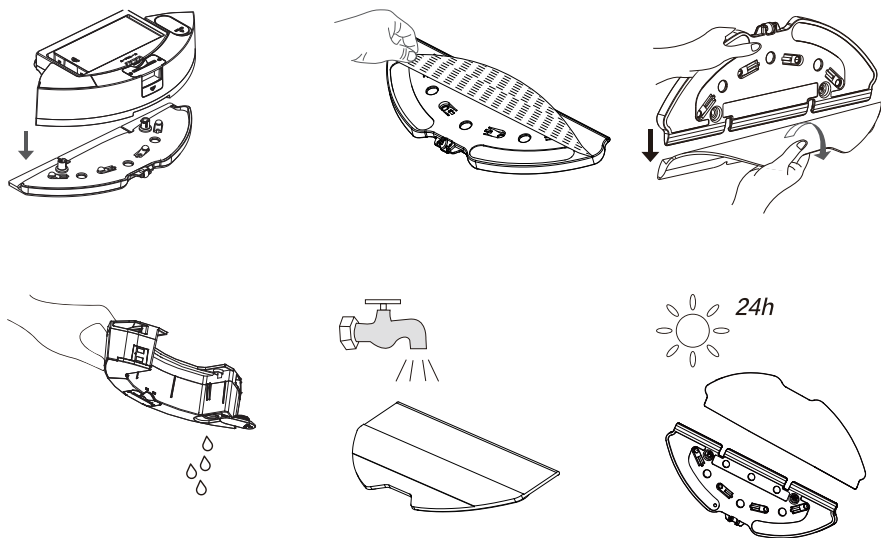
Please clean sensors regularly, and wipe dust off them with a soft dry cloth or sweep brush.



5 Cleaning and maintenance

5.5 Cleaning of the mopping unit

We recommend that you remove the mop holder from one side, drain the water tank, rinse the mop with water and then leave it to dry after each operation of the mopping unit. You may wash the mop in a washing machine.



6 Troubleshooting

The power indicator will flash in red and the buzzer will give a beep in case that there is an abnormality in the operation of the sweeping robot. Please check the table below to solve your problems.

Voice Prompts	Solution
The robot cannot start.	<ul style="list-style-type: none"> - Make sure the robot is connected to power supply. - Make sure the battery is fully charged. - If the problem persists, please reset the robot .
The robot suddenly stops working.	<ul style="list-style-type: none"> - Check whether the robot is stuck or blocked by obstacles. - Check whether the battery is too low. - If the problem persists, please shut it down, wait for 3 seconds, and then restart it.
Cannot make a sweep schedule	<ul style="list-style-type: none"> - There are too many obstacles around the charging dock. Please place the charging dock to an area free of obstacles. - The robot vacuum cleaner is too far away from the charging dock. Bring the robot vacuum cleaner closer to the charging dock and try again. - Make sure that the charging stand station is plugged and there is energy.
Suction too weak	<ul style="list-style-type: none"> - Check the suction inlet for any obstruction. - Empty the dustbin. - Clean filters with water. - Check whether filters are wet due to water or other liquids on the floor. Let filters dry naturally thoroughly before use.
Cannot charge the machine	<ul style="list-style-type: none"> - Please check whether the charging dock is correctly connected to the power supply, and the indicator light illuminates when the power is on. - When the robot is normally connected to the charging dock, the indicator light extinguishes. - If the robot is connected to the charging dock, but the indicator light does not extinguish and the robot does not respond, please use a dry cloth to wipe the charging pole piece at the bottom of the robotic vacuum cleaner and the charging piece of the charging dock, and then try again. - If the robot still can not be charged after performing the above operations, please contact the after-sales department or your dealer.

6 Troubleshooting

Voice Prompts	Solution
The robot cannot return to the charging dock.	<ul style="list-style-type: none">- Clear the charging dock of objects within 0.5m on the left and right sides and within 1.5m ahead.- Make sure that the robot starts sweep from the charging dock without abnormal movement.- When the robot is near the charging dock, it can return faster. But if the charging dock is located far away, the robot will need more time to return.- Please wait during its return.- Clean charging electrodes.
The rolling brush does not rotate	<ul style="list-style-type: none">- Clean the rolling brush.- Check whether the main brush and the main brush cover are installed correctly.
Abnormal action or sweep route of the robot	<ul style="list-style-type: none">- Carefully clean the sensor with dry cloth.- Restart the robot.
No water released during mopping	<ul style="list-style-type: none">- Make sure there is enough water in the water tank.- Check whether the mop module is installed correctly. Upon correct installation, you will hear related voice prompt.- Check whether the water outlet is blocked.
The machine cannot connect to your Wi-Fi network.	<ul style="list-style-type: none">- Ensure that your Wi-Fi router supports 2.4GHz and 802.11b/g/n bands as this equipment does not support 5GHz bands. For more details, For more details, please refer to the “Faults in Wi-Fi Connection” section herein.



Please contact our customer service promptly if any fault cannot be eliminated with the above measures.