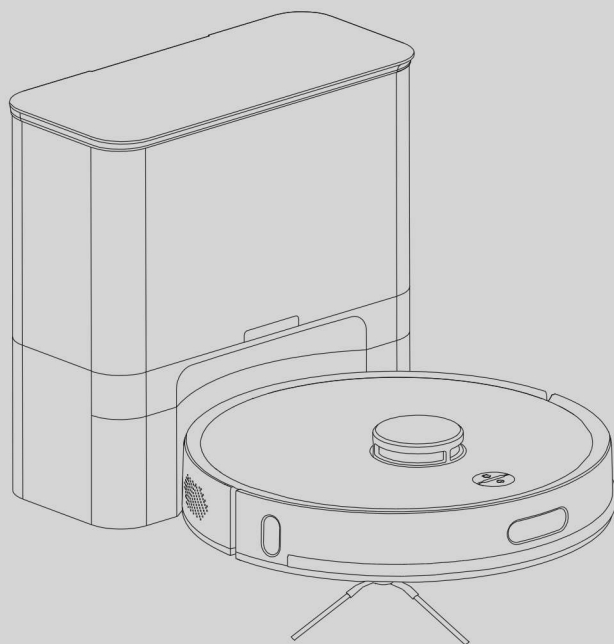


Original instructions



X960

Robotic Vacuum Cleaner

Instruction Manual

CAUTION Read the instruction manual before using the machine.

- WARNING Operators shall be adequately instructed on the use of these machines.
- WARNING This machine is not suitable for picking up hazardous dust.
- WARNING This machine is for dry use only.
- CAUTION This machine is for indoor use only.
- CAUTION This machine shall be stored indoors only.
- A warning that the machine shall be disconnected from its power source during cleaning or maintenance and when replacing parts or converting the machine to another function:
 - for mains operated machines by removing the plug from the socket-outlet;
 - for battery powered machines by safely disconnecting at least the B+ or B– pole of the battery or an equivalent method (disconnecting device); for non-SELV both poles must be disconnected.
- WARNING Do not allow the supply cord to come into contact with the rotating brushes.

Content table

1.Safety instruction	2
2.Product instruction	4
2.1 Robot component	4
2.2 Accessories list	5
2.3 Robot basic parameters	6
2.4 Robot introduction	7
2.5 Dust collector station	8
3.Product usage	9
3.1.Quick guidance	9
3.2. Mode selection	13
4.Wifi pairing	14
5.Repairing and maintaining	15
5.1.Clean dust bin and high performance filter	15
5.2.Check and clean side brush	16
5.3. Check side wheel	16
5.4. Replace dust bag	17
5.5. Clean dust channel of dust collector station	17
5.6. Other parts	18
5.7. Attentive notice	19
6.Trouble shooting	21
7.FCC Information	22

1.Safety instruction

WARNING

1. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
2. For the failures that may occur in the cleaning progress, please check in time. Before cleaning ,please remove the wire and tiny objects on floor in advance. In addition, please roll up the edge of carpet and fold it under carpet and make the curtain and tablecloth not hang too close to the floor to prevent disturbing robot.
3. If there is any suspended environment like stairs, please do not stand under the stair to avoid harm due to falling of robot. It is better to set up a protective fence nearly by the edge of suspended area to stop robot falling down in precondition of that the protective fence will not trip anyone.
4. Ensure the voltage of power source to comply with mark of dust collector station.
5. Please ensure that detachable parts such as side brush have been properly installed before using.
6. The appliance is designed for cleaning indoor areas in the house. Please do not use them outdoors, in commercial or industrial areas. Children should be supervised to ensure they do not play with the appliance.
7. Please operate robot and dust collector station seriously according to manual,otherwise will cause injury or property loss. Manufacturer will not take any responsibility caused by improper using.
8. Do not wash robot and dust collector station by water directly.
9. Do not mop robot and dust collector station with wet cloth.
10. Do not use robot and dust collector station on the floor with water.
11. Do not use robot and dust collector station in surrounding with flame or fragile objects.
12. Do not let your body go too close to opening or running part of robot and dust collector station,especially like hair, clothes and finger.
13. Do not use robot and dust collector station in surrounding with burning materials such as cigarettes, matches, ashes and any inflammable materials such as gasoline, color powder of printer or copier ,and anything what may cause a fire.

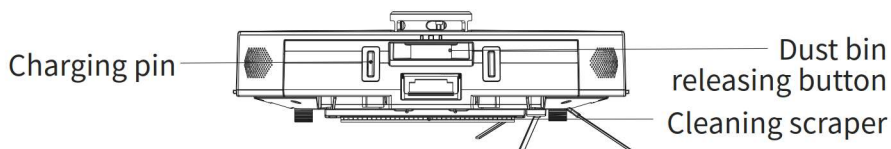
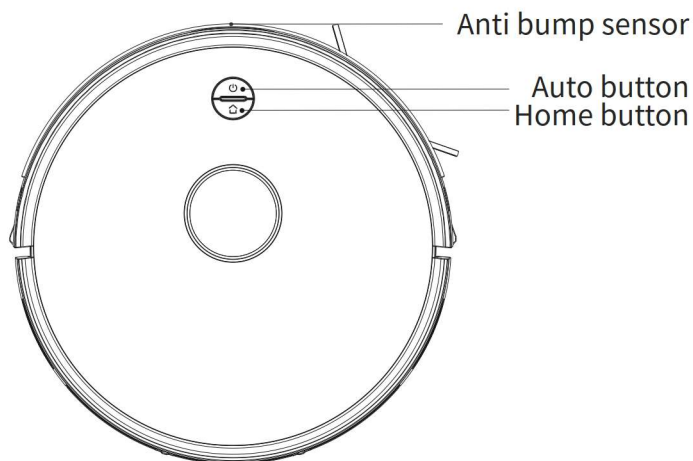
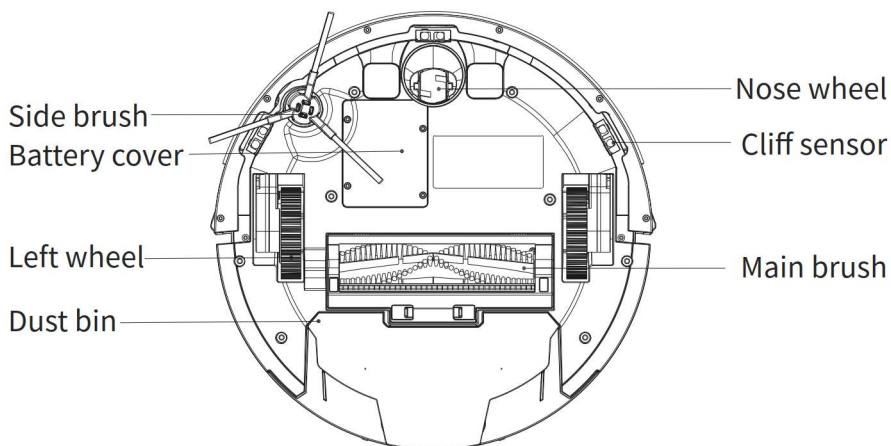
1.Safety instruction

WARNING

14. Do not use the robot and dust collector station with damage.
15. Do not pull or drag the robot or dust collector station via its cord. Do not treat the power wire as handle. Do not clamp the cord with door. Do not lie the cord on sharp point and ensure the power cord far away from heat source.
16. Do not use robot and dust collector station in children room.
17. Stop using robot and dust collector station immediately in case of that they have any damages.
18. Do not replace spare parts on your own to avoid physical injury. Please contact with the after-sale center or professional technician.
19. Do not use spare parts from non designated supplier. Please contact with manufacturer or after sale center.
20. Only use the original rechargeable battery and dust collector station from manufacturer. It is forbidden to use non rechargeable battery, battery specification please refer to the technical parameters.
21. If the product is going to not use for a long time, please power off the product.
22. The charging plug must be unplugged from the power socket before cleaning and maintaining.
23. Before discard the robot, please take the robot off from dust collector station, shut off the robot and take out the battery.
24. When disposing of the robot and dust collector station, please be subject to local legal regulation, especially for the lithium battery.
25. In case of that the product is seriously broken, it is prevented to burn the product, since the battery inside may cause explosion.
26. Please do not use product on carpet with long hair(the robot may not able to normally works on dark carpet) .
27. Warning: against recharging non-rechargeable batteries.
28. This appliance contains batteries that are only replaceable by skilled persons.
29. WARNING: For the purposes of recharging the battery, only use the auto empty station(model: xxx) provided with this appliance.

2.Product instruction

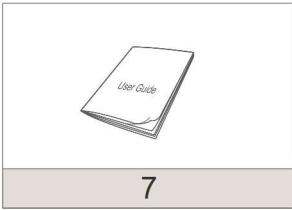
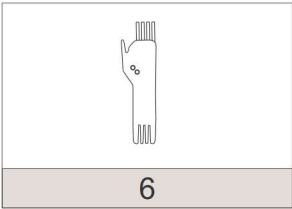
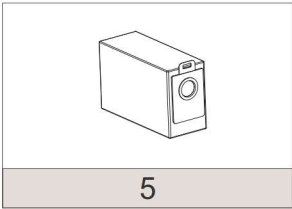
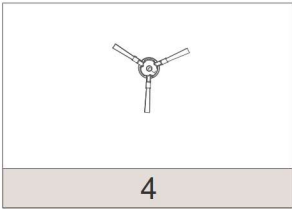
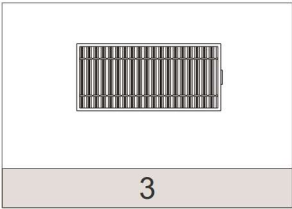
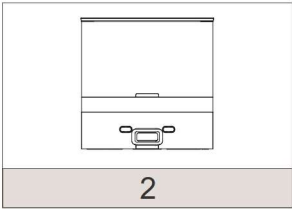
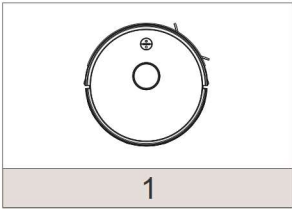
2.1 Robot component



2.Product instruction

2.2 Accessories list

Item	Description	Quantity
1	Robot	1
2	Dust collector station	1
3	High performance filter	1
4	Side brush	1
5	Dust bag	1
6	Cleaning brush	1
7	User manual	1



2.Product instruction

2.3 Robot basic parameters

Robotic Vacuum Cleaner - X960			
Size	335x335x95mm	N.W.	3.0kg
Working voltage (V)	14.4~14.8	Rated power (W)	35
Lithium battery	14.8V, 2900mAh		
Dust collector station - P500			
Working voltage (V)	220V-240V ~ 50/60Hz	Rated power (W)	1050
Rated output power	19V == 1A	Dust bag capacity (L)	3.5L

CLASS LASER PRODUCT

Invisible laser radiation

Laser energy --Exposure near aperture may cause burns

Wavelength:940nm

Output power: 6mW

Frequency: 0,48ms

Frequency bands: 2412-2472MHz (for European); 2412-2462MHz (for United States)

Maximum RF power transmitted (e.i.r.p.): < 20dBm (for European)

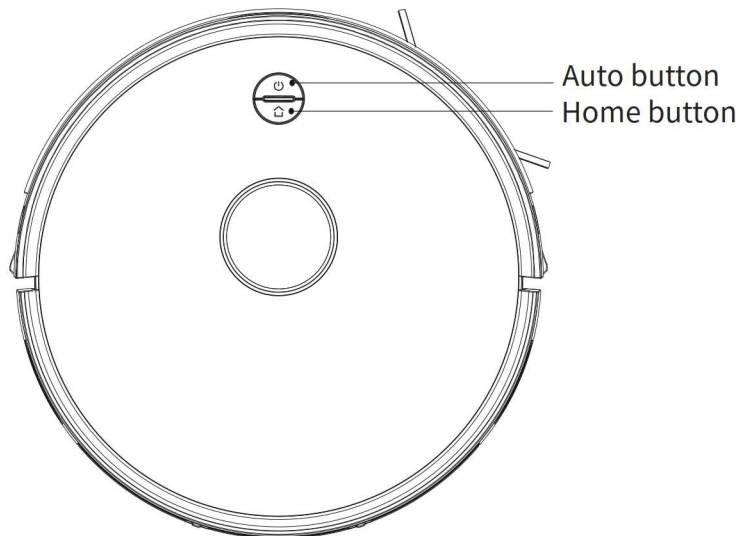
Laser of vacuum cleaner complies with the standard for Class laser products of IEC 60825:2014.

Zhiyi (Zhongshan) Technology Co., Ltd.

No. 39, Donghui Road, Cuiheng New District, 528400 Zhongshan, Guangdong, PEOPLE'S REPUBLIC OF CHINA

2.Product instruction

2.4 Robot introduction

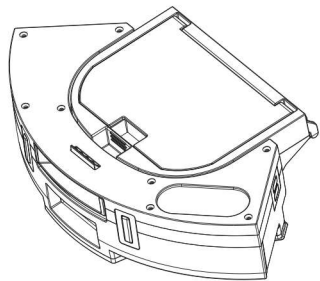


Button	Robot status	Operation	Function description
Auto button	Off	Long press for 3 seconds	Turn on the robot
	On	Press one time	Start cleaning/stop cleaning
		Long press for 5 seconds	Turn off the robot
Home button	On	Press one time	Automatically charge

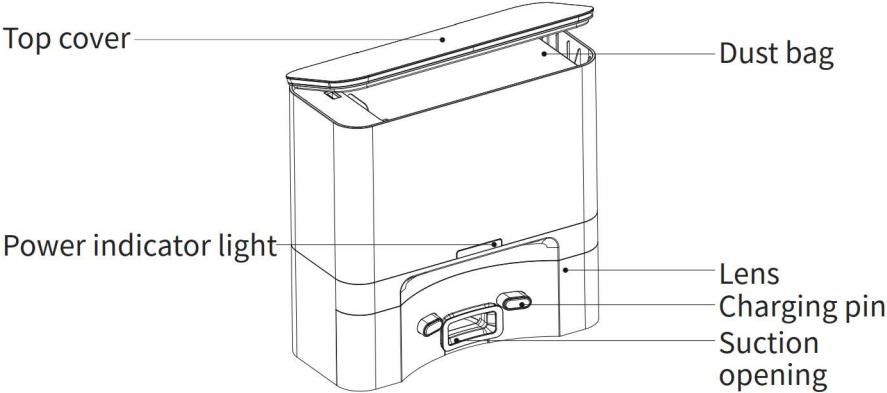
Power indicator light	Green	Available battery capacity $\geq 20\%$
	Orange	Available battery capacity $\leq 20\%$
	Red	Failure or abnormal

2.Product instruction

Dust bin



2.5 Dust collector station



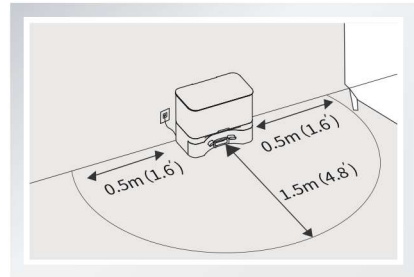
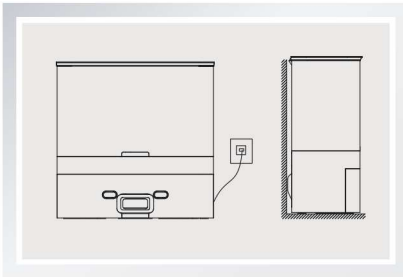
Power indicator light	Green	Keep on-fully charged
		Flash slowly-Dust collector station connects to power source
	Red	Flash-Dust bag is not installed or top cover doesn' t close well
	Orange	Flash-Dust collecting starts
		Flash slowly-In charging
		Keep on-Dust bag is full or suction passage is stuck
	Off	In sleep

3.Product usage

3.1 Quick guidance

1 Dust collector station

- Put the dust collector station closely against the wall, plug the power wire and connect it to power source.
- Make sure that no any obstacles stand within 1.5m on front and 0.5m on left and right of dust collector station , avoid direct sunlight, as well as no objects like mirror which could reflect light there.
- Install the dust bag and close its top cover, the green light will flash slowly, then the dust collector station enters into standby mode.

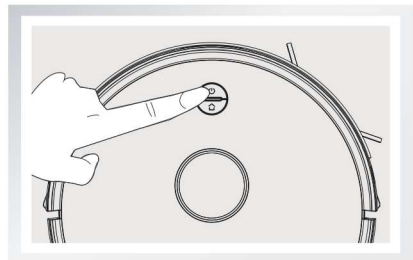


* **Warm notice:** After the dust collector is powered on , the indicator light will remain on.

2 Turn on/off robot

- Turn on robot : Long press Auto button for 3 seconds when robot is in off status.
Turn off robot : Long press Auto button for 5 seconds when robot is in on status.

* When the robot finishes working, please do not turn off the robot and make the robot be in charging status for better next working.

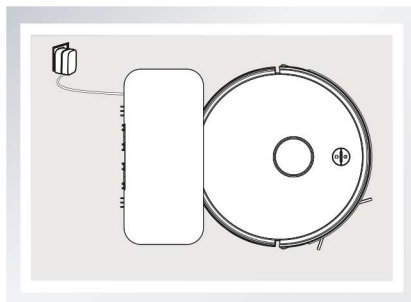


3.Product usage

3.1 Quick guidance

3 Charge for robot

- Put robot on the dust collector station. Please ensure the robot be in align with charging pin of dust collector station.
- In charging progress, Auto button is orange and flashes slowly. After fully charged, all lights turn off.
- At the first charging, please consistently charge for 6 hours.

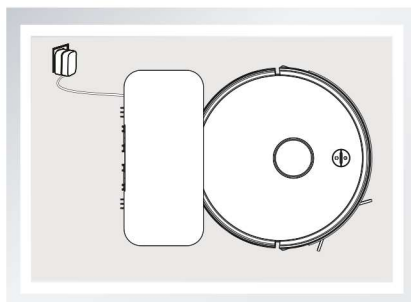


* Warm notice:

- 1.In daily usage, please make sure the charging pin on robot and dust collector station are clean, otherwise will affect charging.
- 2.In daily usage, please stock robot on the dust collector station, ensure that the dust collector station connects to power source(robot will turn on automatically when it is put on station).
- 3.If the robot will be not used for a long time, please fully charge it, long press Auto button for 5 seconds to turn off the robot and stock it in place where is dry and airy.

4 Auto collecting dust

- When the robot attaches well with dust collector station,charging starts, after 3s later, it will suction dust from robot for 15s while the indicator light on station is flashing with orange.
- The collection of dust will start only when robot working time in gyro mode exceeds 10mins in one cleaning round (user could set dust collecting times on app, for example: collecting dust after 3 times is selected, the dust collecting will start after the robot returns to the dust collector station only when the robot runs in gyro mode for 3 times, in every time its working time exceeds 10mins.)

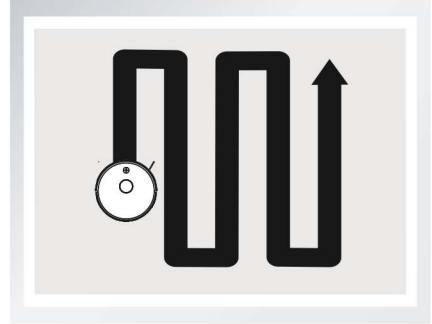
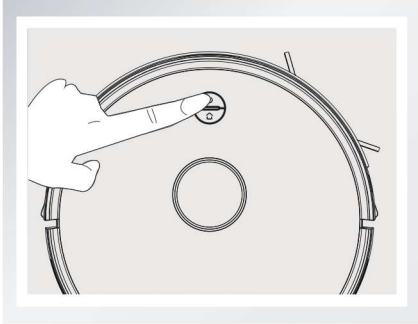


3.Product usage

3.1 Quick guidance

5 Start cleaning

- In the case of that robot is in standby mode, press Auto button on robot and robot will start cleaning.



*Before cleaning, please ensure the robot is in standby mode while Auto button is flashing slowly with green.If the robot is in sleep mode, please press the Atuo button to wake up the robot first.

*To switch to other modes, please operate on app.

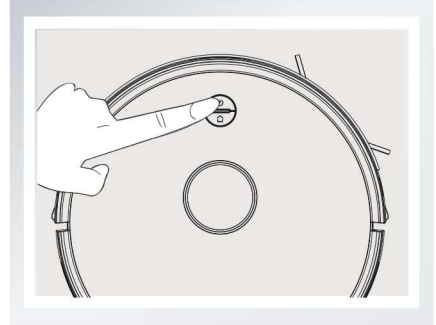
*Robot will independently plan its path in working progress, if the robot is moved manually or controlled by app (except for pausing cleaning), robot will reschedule path and it may occur that some cleaned area is cleaned again. To keep its working efficiency , please do not operate robot optionally.(If robot is lift up, it will alarm and stop cleaning, please press Auto button or operate on app to restart it)

3.Product usage

3.1 Quick guidance

6 Pause

- In cleaning progress, pressing Auto button on robot or standby button on app will make robot pause working.



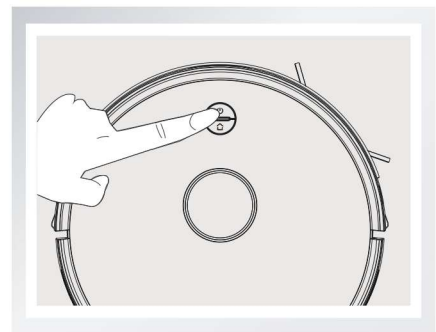
* Warm notice:

- 1.If the robot has been paused for more than 10mins, it will enter into standby mode automatically. To start cleaning, please press Auto button on robot to wake the robot up first and then start cleaning.
- 2.After robot is waken up, it will reschedule its path and maybe will clean the area it already cleaned before.

Remark: If the robot is in sleep mode, you could wake it up first and start, however its later cleaning is completely new scheduled and its path can't exactly link up to the last cleaning rounding.

7 Sleep mode

- If no operation on robot for 10mins, it will enter into sleep mode automatically.



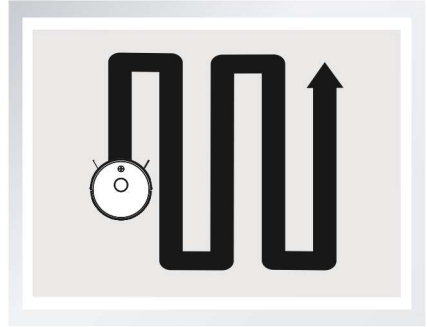
3.Product usage

3.2 Mode selection

- To adapt to different floor surface to realize deep cleaning, this robot enables user to switch among multiple cleaning mode on app.

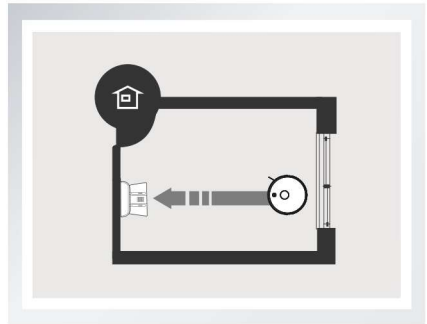
1 Auto cleaning mode

- It is the most used cleaning mode. The robot will start cleaning with scheduled path. In the cleaning progress it will detect where it didn't clean and will automatically supplementary clean there later, with higher cleaning efficiency.



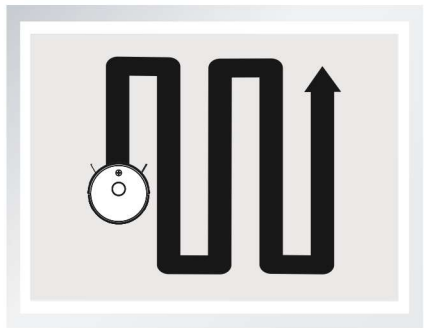
2 Auto charge

- When robot detects its power is insufficient in cleaning, it will enter into auto charge mode and will search for dust collector station for charge on its own.



3 Point cleaning

- To enter into point cleaning mode, click one spot on map and start cleaning and robot will clean the area with 1.5x1.5m centering that spot.



4. Wifi pairing

Download app

Please search for Tuya smart app on App store or Google play and download it.

Wifi pairing:

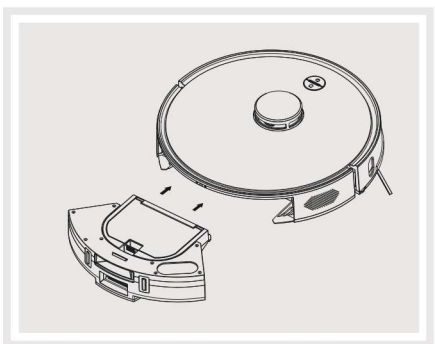
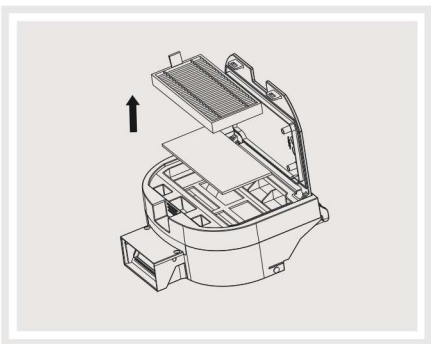
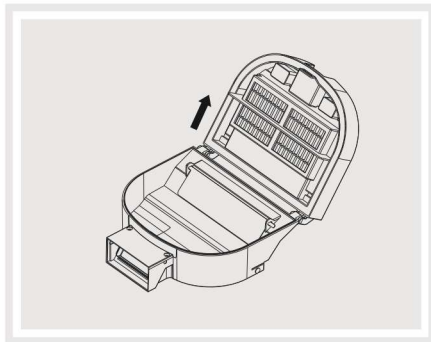
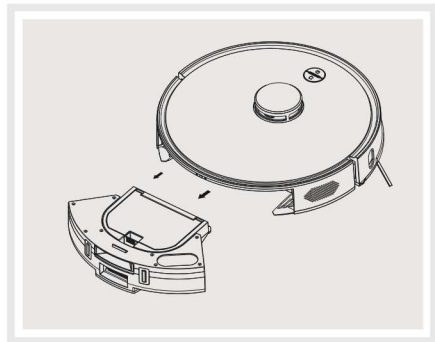
Please press Auto button and home button at the same time for 3s until robot pronounce and light on robot flashes slowly

Open the app, select Add device, then operate following the guidance on app.

5.Repairing and maintaining

5.1 Clean dust bin and high performance filter

- When cleaning the robot or its spare parts, please turn off the robot first, and the robot should not be in charging.

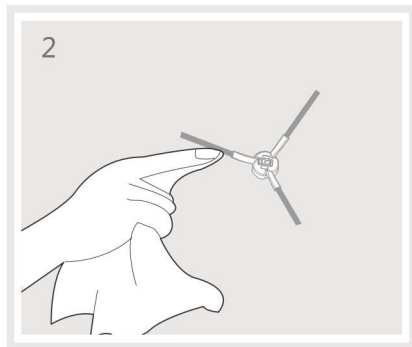
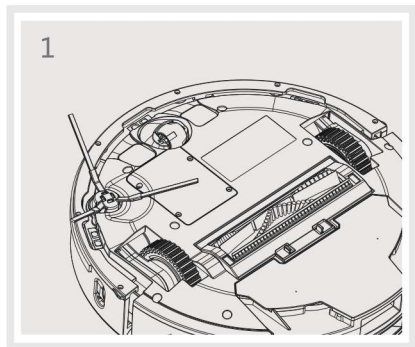


- 1.Take the dust bin out of the robot, open the dust bin, pour out the garbage inside, wipe the dust bin.
2.Open the dust bin, take out the high performance filter and foam filter, clap lightly them to make the garbage inside them out. After cleaning, please install them in dust bin again, and install the dust bin on the robot.

5.Repairing and maintaining

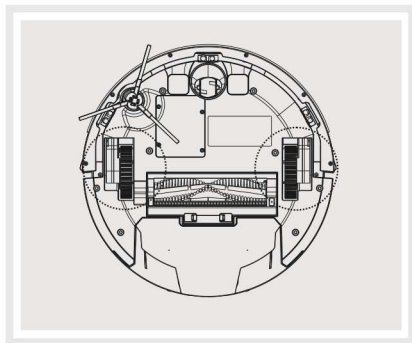
5.2 Check and clean side brush

- Please turn off the robot, take the side brush off from robot and remove the foreign objects on it such as hair, sweep the brush with clean cloth.



5.3 Check side wheel

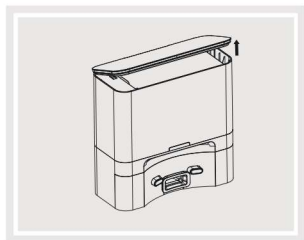
- Please turn off the robot and remove the objects stuck on wheel.



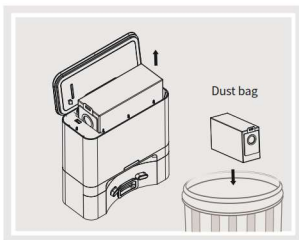
5.Repairing and maintaining

5.4 Replace dust bag

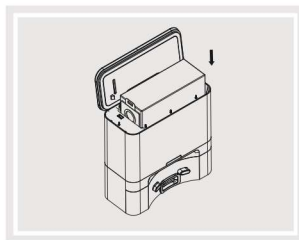
- Open the dust collector station and take out the used up dust bag. Bring a new one to install in dust collector station and close the dust collector station.



①.Open the dust collector station



②.Take out the used up dust bag



③.Replace with a new one and close the dust collector station

- * The broken dust bag will damage the dust collector station. It is suggested to check if the dust bag is intact before using.
- * Dust bag is consumable and its service life generally is around one and half month. Please regularly check and replace to avoid worn due to long term usage.
- * If there is any dirt accumulating inside the dust bag, please clean it in time to ensure no foreign objects on filter, to avoid fan motor being blocked and affect usage.

5.5 Clean dust channel of dust collector station

- If any foreign objects block the dust channel, it is suggested unplug the power plug and turn over the dust collector station. Please refer to illustration below to disassemble the transparent cover with screwdriver and remove the foreign objects.

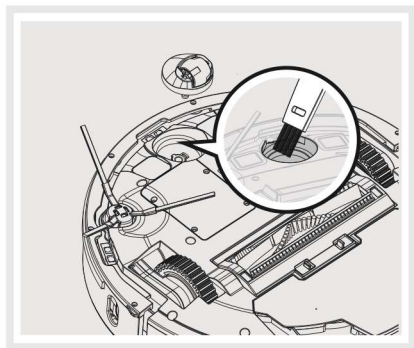


Transparent cover
of dust channel
Dust channel

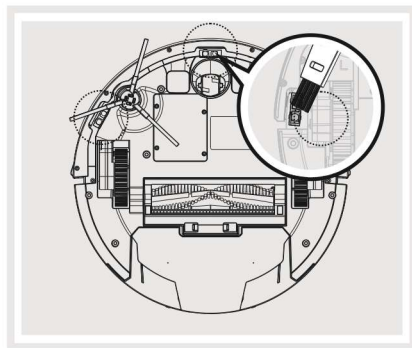
- * Violent disassemble is forbidden. Please carefully revert it after cleaning.

5.Repairing and maintaining

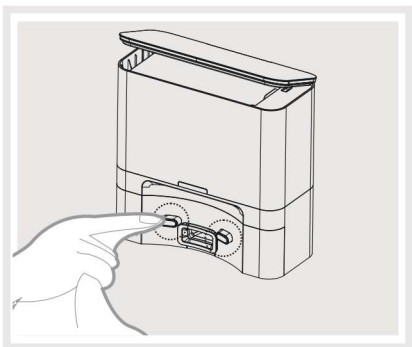
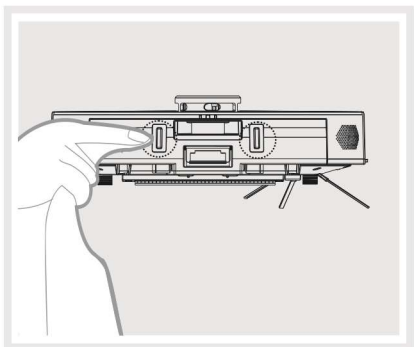
5.6 Other parts



Please clean the side brush regularly to reduce hair entanglement.



Please clean the cliff sensors regularly to ensure its sensitivity.



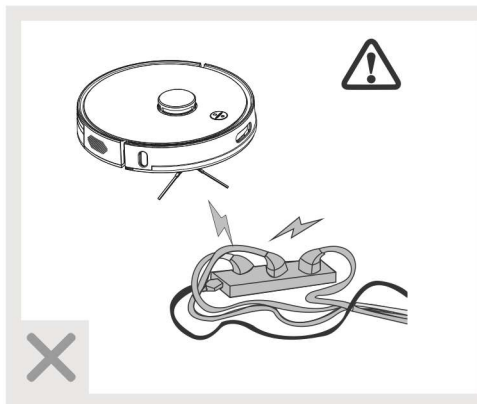
Please clean charging pins regularly. Please use dry cloth to clean the charging pins on robot and dust collector station.

- * Deep discharge or not used for a long time will decrease the available battery capacity. Please active battery. How to activate battery: Put the robot on dust collector station, charge for 3 mins and then remove it. Repeat this operation for 3 times, then start normal charge for 5-6 hours.
- * The battery equipped is with long time service life and no need to replace it often.If there is any necessary, please contact with your after sales center.

5.Repairing and maintaining

5.7 Attentive notice

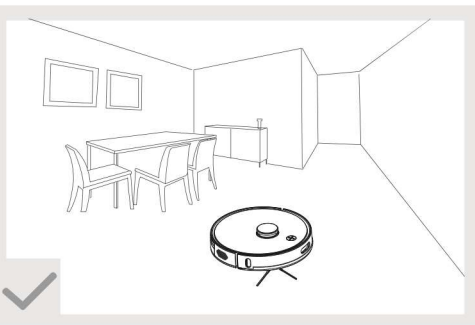
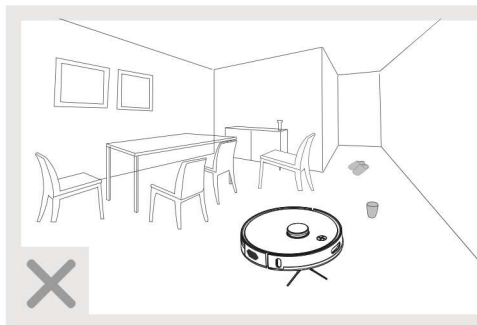
- Due to complex house surrounding, it may occur that some area are missed cleaning. To achieve better cleaning effect, it is suggested that use robot everyday and remove some unfriendly obstacles before cleaning.



The power supply cord lay on floor may entangle the robot. Please move it before cleaning.



If there is carpet in house, please roll up the edge.



To avoid the robot being stuck during cleaning ,please put the furniture such as desk ,chair in order in advance.

5.Repairing and maintaining



Please do not stand on narrow place such passage or door threshold, which will cause missing cleaning.



When robot cleans near the stair, please do not stay under the stair in case that robot or something else accidentally drops down.

6.Trouble shooting

Error code list

- When the robot has some failure, the red light on robot will flash.

Number	Failure cause	Solution
01	Cliff sensor failure	Check the cliff sensors
02	Robot is stuck in small room and can not get out there.	Please move the robot to a big area

* Warm notice:

If the solution mentioned above don't work, please operate as below:

- 1.long press Auto button on robot for 5s to turn off the robot, and long press for 3s to restart robot.
- 2.If restarting doesn't work either, please return the robot to after sale center for further checking.

Declaration of conformity:

This product fulfills the requirements of the applicable European and national directives. This is confirmed by the CE mark. The relevant declarations are held by the manufacturer.

KSR GROUP GMBH hereby declares that the device SSR-AA1 complies with Directive 2014/53/EU.

Replace accessories regularly

Accessories	Maintain	Replacement
Dust bin	Each time	/
Filter	Once a week(Pet: twice a week)	3-5 Months
Side brushes	Once a week	Per demands
Charging station	Once a week	/

7.FCC Information

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.

This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body.

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.

MODIFICATION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

