Model No: T900

Product Name: 3D Perception Laser SLAM Robot Vacuum Cleaner

Please read this instruction carefully before use and keep it properly

Welcome to use

Thanks for choosing this smart robot vacuum cleaner.It is an intelligent planning robot vacuum cleaner based on solid linear laser and a variety of sensors, through SLAM algorithm easily and quickly building the real-time map of whole room, and smart planning cleaning paths, starting automatic cleaning, automatic map partition, 3D obstacle avoidance, automatic charging, etc.

It is equipped with super suction, large capacity rear extraction dust box, washable HEPA filter, split mopping module, two-in-one electric controlled water tank, has efficient cleaning efficiency, super obstacle surmounting ability, long working endurance.

You can download the APP through your mobile phone, check the cleaning map and running status of the robot vacuum cleaner in real time, customize area cleaning and appoint cleaning time, and remotely control it at any time.
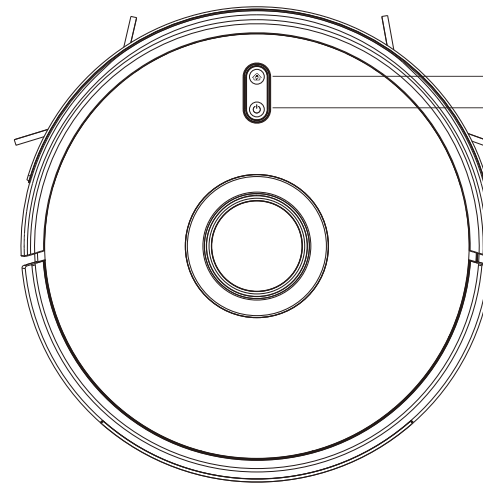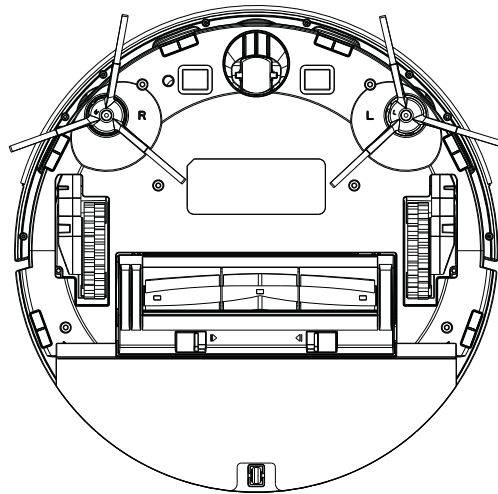
Science and technology make life better. May you have a nice usage experience.

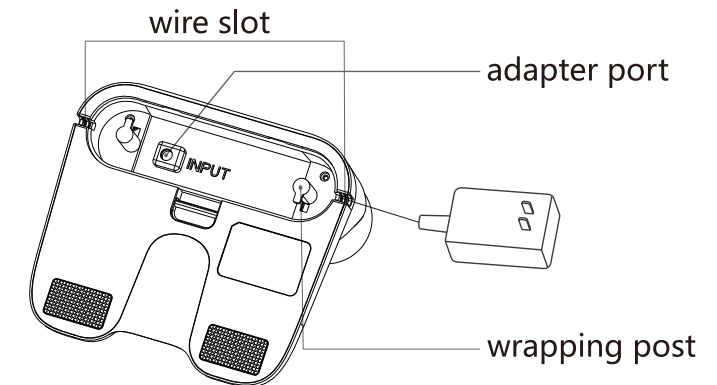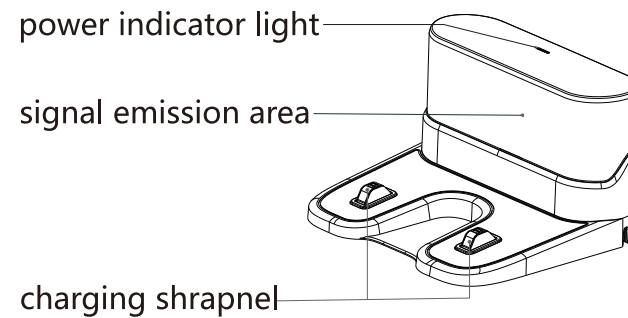# contents

Product Introduction

Host Machine

⌂ **start/pause recharing, Partial cleaning**
·short press to start/pause recharging

⏻ **start/pause cleaning, turn on/off**
.press and hold for 3s to turn on/off machine
.short press to start/pause cleaning
.under abnormal circumstances, press and hold for 15s to force the shutdown

Reset WiFi
.press two buttons simultaneously and hold for 3s

Charging Station

catching groove

cover plate

power indicator light

signal emission area

charging shrapnel

wire slot

adapter port

INPUT

wrapping post
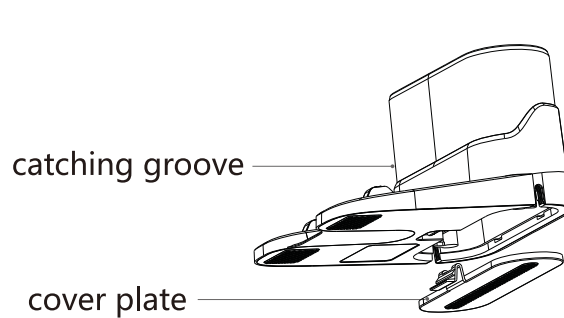
Product Introduction
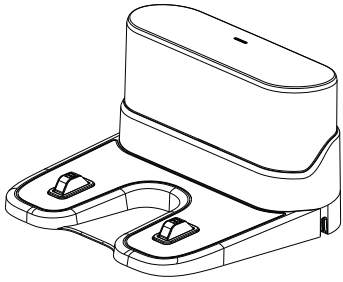
Spare parts list

charging station X 1
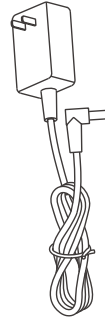
adapter X 1

left side brush X 2
right side brush X 2

2-in-1 E-water tank (optional)
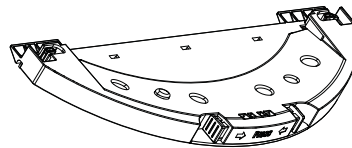
wiping module (optional)
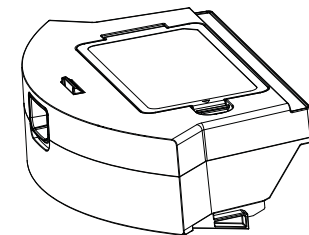
individual dust bin X 1

Product Introduction

Spare parts list
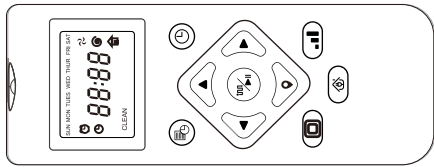
remote control (optional)
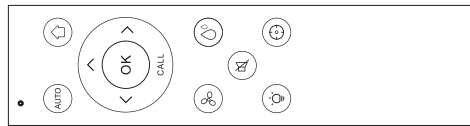
remote control (optional)
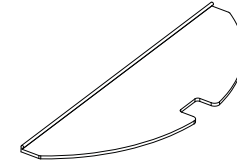
wiping cloth (optional)
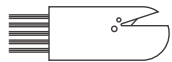
cleaning brush (optional)
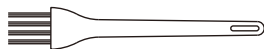
cleaning brush X 1
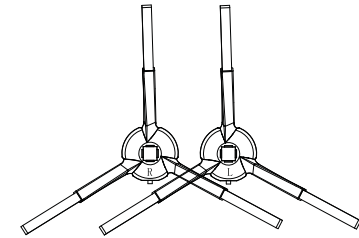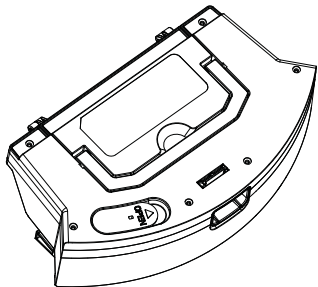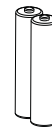
AAA battery X2 (optional)
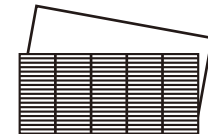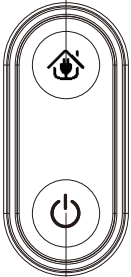
(HEPA filter+sponge filter) X1

Product Introduction

Host Machine

filter screen cover

dust bin push button

Linear laser wall sensor

system reset key

Laser ranging sensor

anti-collision sensor

recharge sensor

linear laser sensor

left recharge sensor

charging contact

universal wheel

left side brush

right side brush

battery cover

right driving wheel

left driving wheel

rolling brush

rolling brush cover buckle
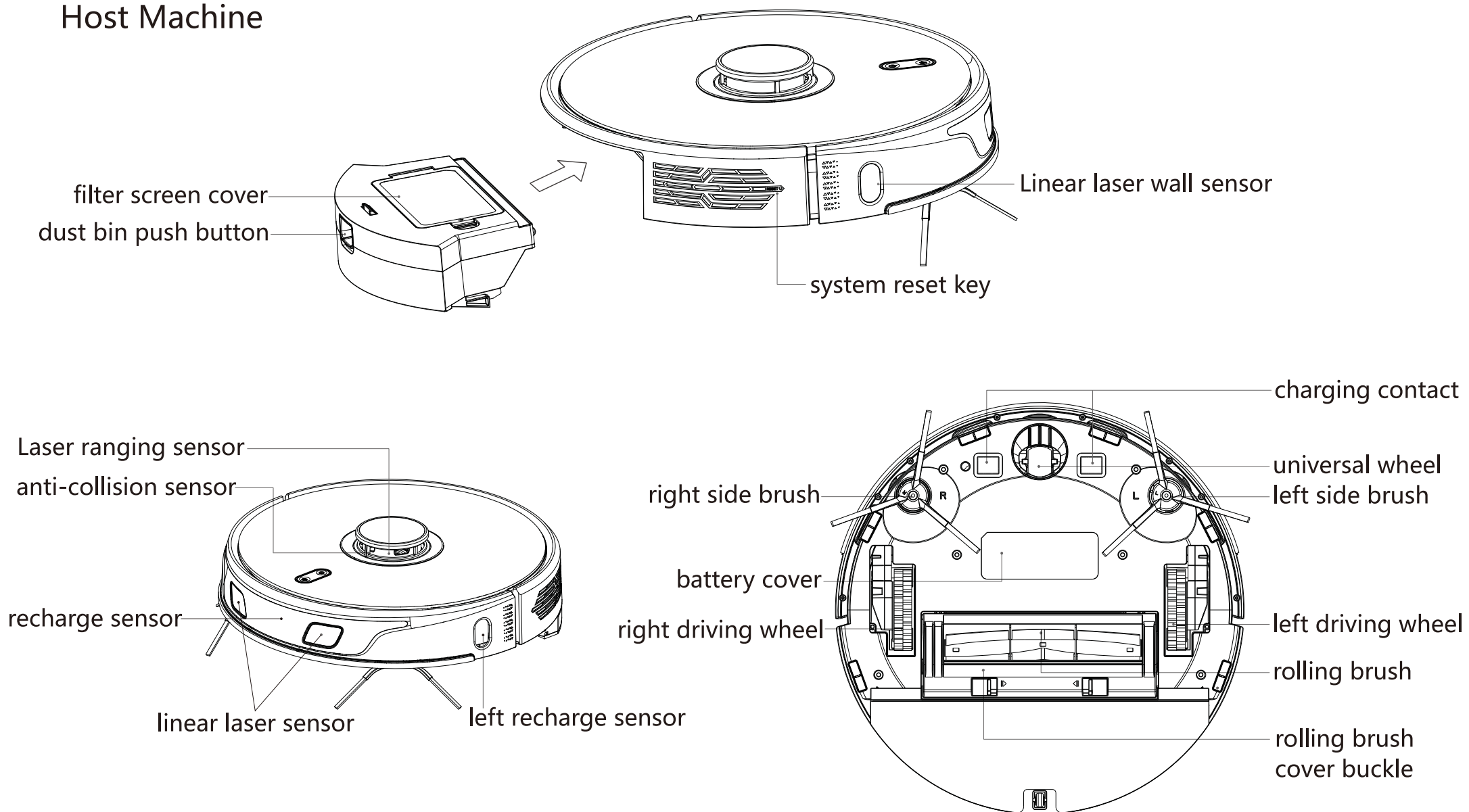
Instructions

graphic	machine state	network state	Recharging key	power button	remarks
Recharging key power key	Machine boot	No distribution network	The orange light flashes slowly until it goes out	The orange indicator blinks slowly until steady on	
		Has distribution network	The blue light blinks slowly until it goes out	The blue indicator blinks slowly until steady on	
	Machine cleaning	No distribution network	lights out	Orange light on	electricity > 20%
		Has distribution network	lights out	Blue light on	
	The machine works on low electricity	No distribution network	lights out	The orange indicator blinks slowly	electricity < 20%-15%
		Has distribution network	lights out	The blue light blinks slowly	
	The machine is recharging	No distribution network	Orange light on	lights out	electricity > 20%
		Has distribution network	Blue light on	lights out	
	Low power recharging of the machine	No distribution network	The orange indicator blinks slowly	lights out	electricity < 20%-15%
		Has distribution network	The blue light blinks slowly	lights out	
	The machine is in standby	No distribution network	lights out	Orange light on	
		Has distribution network	lights out	Blue light on	
	Machine in sleep	No distribution network	lights out	lights out	
		Has distribution network	lights out	lights out	
	Machine charging	No distribution network	Orange breathing lamp	lights out	
		Has distribution network	Blue breathing lamp	lights out	
	Machine fully charged	No distribution network	lights out	Orange light on	
		Has distribution network	lights out	Blue light on	
	Abnormal alarm	No distribution network	lights out	The red light is flashing	
		Has distribution network	lights out	The red light is flashing	

Installation

1.Connect adapter and feed the excess power cord into the slot
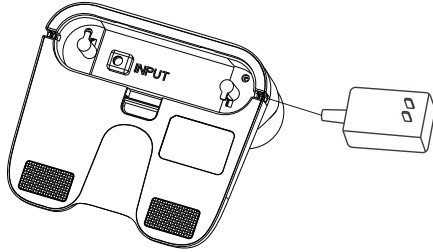
2.Place charging station against the wall and connect the power supply

> 0.5 ✳
> 0.5 ✳
> 1.5 ✳
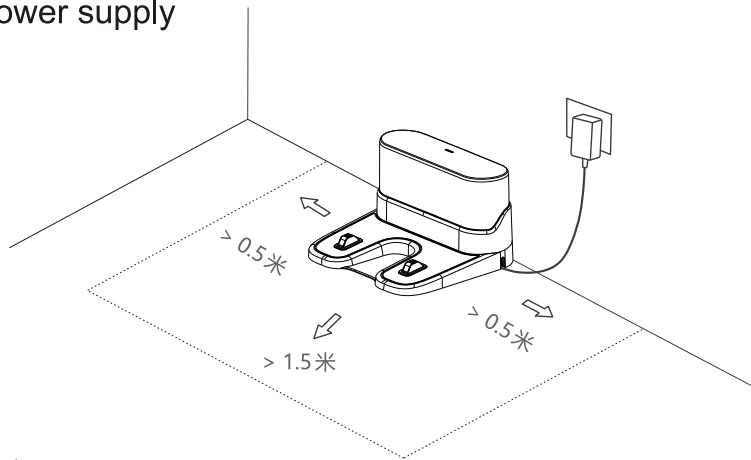
Note:
- ensure a space of above 0.5m on both sides of the charging station and a space of above 1.5m in the front.
- if the power line is vertical to the ground, it may be dragged by the robot and consequently th charging station may be powered off.
- the charging indicator light is always on when the power is on.

3.Please do not move the charging station arbitrarily and keep it out of direct sunlight

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Note:
- direct sunlight will interfere with recharging signal and consequently the robot may be unable to return to the charging station.

4.Installation of side brush

makethe left side brush and the right side brush correspond to L and R on the bottome casing, press L and R, side brushes are installed, tighten the fixing with the screws.
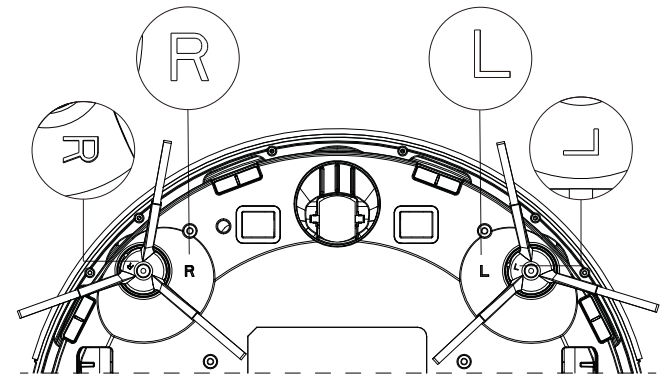
5.Starting up or Charging
-long press the button ⏻ for 3s to start up the robot.

0~2cm
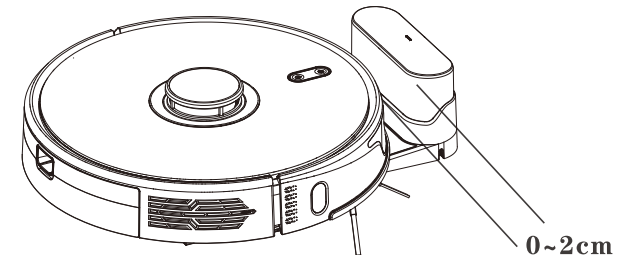
- if the robot cannot be started up due to low battery, please charge it on the charging station and then the robot will be started up automatically. The robot can work normally only when the battery power is ≥ 20%.
- as shown in above picture, the charging station is correctly positioned in front of the robot, and the distance between the front of the robot and the charging station is about 2 cm.

Special Tips

1.Please clear the scattered wire and debris on the ground before starting, and remove the easy, fragile, valuable and potentially dangerous items.Avoid personal or property damage caused by winding, getting stuck, dragging or falling down by the main engine.
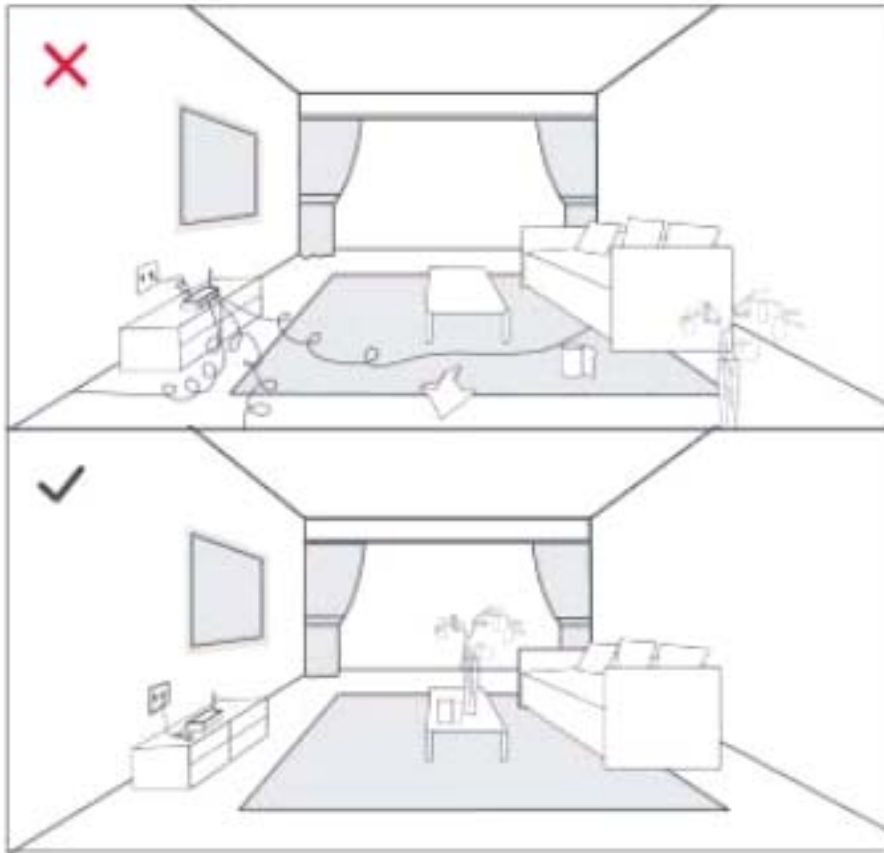
2.If the product is used in suspended environments, be sure to use a strong physical barrier to prevent personal or property damage caused by an accidental fall of the host machine.
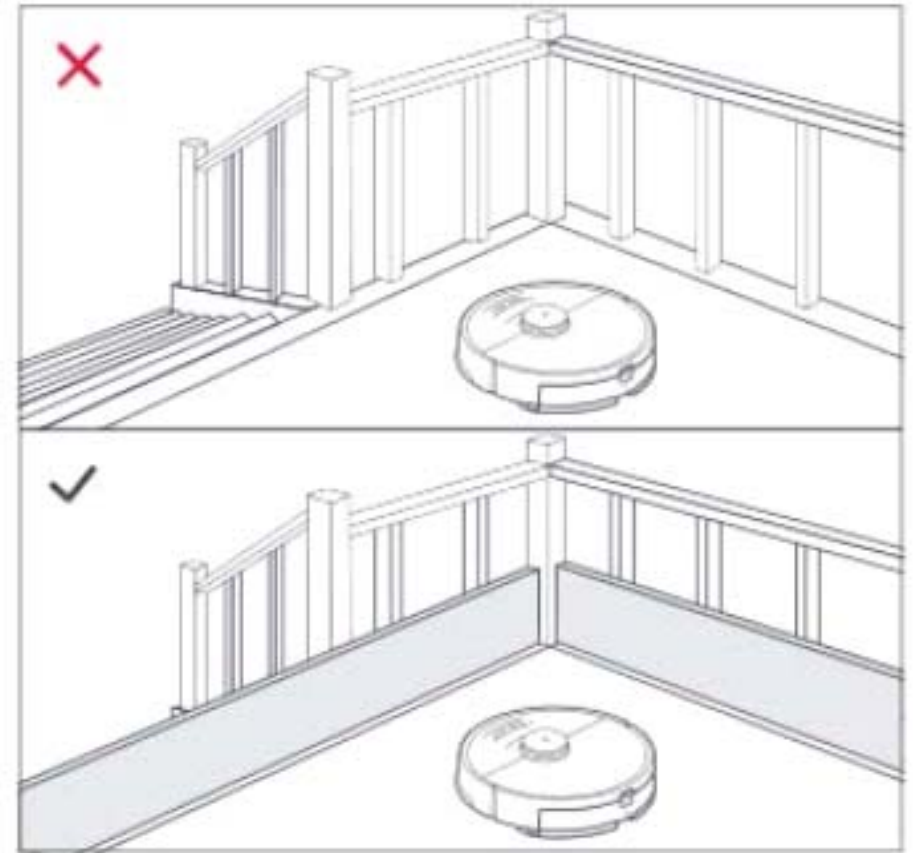
Installations-Water tank

1. Install the rag: smoothly stick the wiping cloth to the bottom of the mopping bracket.

Note: please wash and clean the wiping cloth after each use to keep it in good cleaning condition and ensure the cleaning effect.

2.Fill in the water tank: uncap the cover of water tankand fill with water, fasten the cap.

Note: please remove the dust box from the 2-in-1 water tank before filling it with water to prevent water into the dust box: Lift the handle of the dust box and take the dust box out of the 2-in-1 water tank. Then fill the water tank with water and fasten the lid.

3. Install the water tank:Put the dust box into the water tank, and put the hand flat.
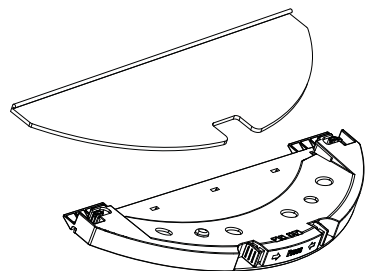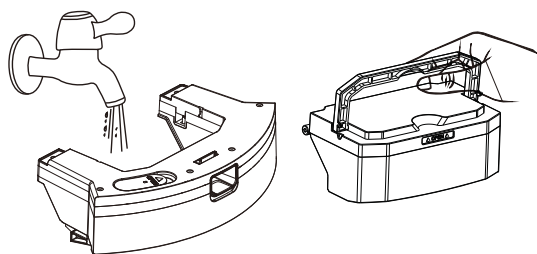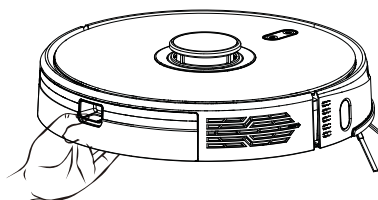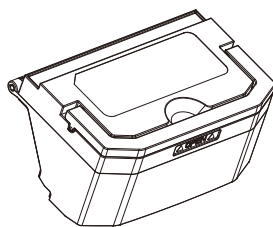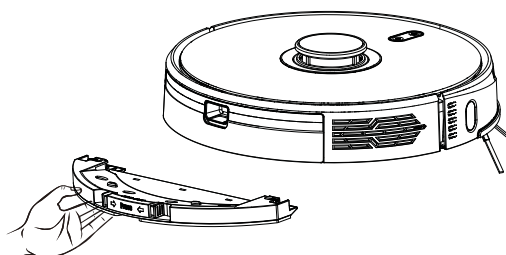
press the button in the middle of the water tank and push it horizontally along the rear part of the host machine. The water tank is installed in place when you hear a "click" sound.

he mopping bracket, and push it horizontally along the rear part of the host machine.
The mopping bracket is installed in place when you hear a "click" sound.

4.Remove the water tank:When the host completes the work, press and hold the buttons on both sides in the middle of the mop bracket, remove the mop bracket backward, and clean the cloth (do not move or flip the host during work)
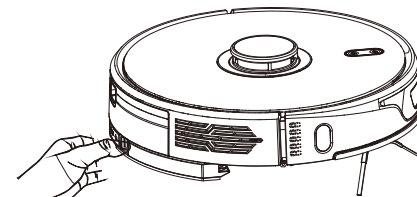
after removing the mopping bracket press the button in the middle of the water tank and pull out the 2-in-1 water tank horizontally along the rear part of the host machine. Remove the dust box and clean up the garbage, wash and clean its HEPA, filters. Pour out the residual water in the water tank. (Do not turn over the host machine during removal)
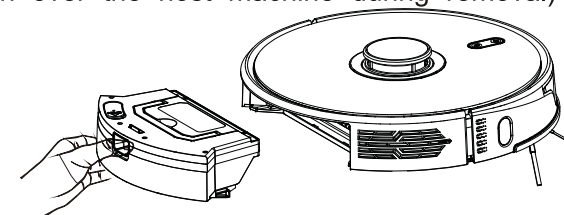
5. Instructions for using water tank:
1). please do not use the water tank when it is left unused.
2). for the sake of safety, please remove the water tank when it is being charged or left unused.
3).please do not mop the carpet. The robot can be prevented from entering the carpet by setting restricted area through APP.
4□. to achieve a better mopping effect, themopping bracket should be installed/used after the floor is swept for three times.
5). if you need add water or clean the wiping cloth when the robot works, please pause the robot firstly, follow above steps, then avoid failing in positioning and losing the map.
6). mopping function of this robot is intended for wiping and is conducive to deep cleaning. It cannot remove stubborn stain effectively and replace labor force.

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Instructions

On/Off button

1. long press the button ⏻ for 3s until the indicator lights is steady on, robot voice prompt "Power On". Robot is turned on sucessfully.
2. while the machine is in standby state, long press the button ⏻ for 3s until the indicator light turn off, robot voice prompt " Power off" .
Note: Robot cannot be shut down when it is in charging.

Start/Pause cleaning

After turn on the robot, short press the button ⏻ on the host machine or use mobile APP to start/pause cleaning. (press any key in APP to pause cleaning)

Note:
- the robot vacuum cleaner cannot be used to remove liquids.
- if the battery level is less than 15%, the robot cannot work, please charge it.
- the machine will return to the charging base automatically if the battery level is less than 15% in use and will be powered off and start cleaning automatically after the battery level reaches 80%.
- please clear various wires (including power line of charging station) on the ground before use so as to avoid outage and damage of objects or wires when wires are dragged by the robot.

Dormancy

After more than 10 minutes without operation, the sweeping robot will automatically enter the dormant state, when the cleaning indicator light goes off.Press the cleaning button to wake up the robot.
· The robot will not enter dormancy when charging on the charging seat.
· The sweeping robot automatically shuts down when the dormant time is less than 5%.

Charging
Automatic recharge: the robot will return to the charging station automatically after completing cleaning.
Manual mode: 1.short press the button 🏠 on the robot to start recharging.
2.press the home key on APP to start recharging.

Note: 1. orange and blue indicator light is under breathing status while charging Indicator light will be steady on when charging is full.
2. if the robot fails to locate the charging station, it will return to the place around original position automatically. Please put the robot back to the charging station manually.

fault condition

When an abnormality occurs in the operation of the sweeping robot, the cleaning key indicator light flashes slowly and gives voice prompts. See "Troubleshooting" for the solution
· No operation for 10 minutes, and the sweeping robot sleeps automatically
· The sweeping machine is charged on the charging seat, and will end the cleaning task

resetting WIFI

When the router changes the configuration, forgets the password or other reasons for the sweeping robot, please hold the cleaning and recharge keys at the same time to know the voice prompt "reset WIFI to enter the distribution network", release the button, and wait for the button indicator orange slow flash, indicating that the sweeping robot has entered the distribution network mode.
· After the robot is waiting for more than 1 hour, the wifi function will be automatically turned off. If you connect again, please reset WiFi before operation.

Suction Adjustment

You can adjust the suction power to quiet level, standard level, powerful level, super level by mobile APP or remote control. (standard level by default)

Water Regulation (only for 2-in-1 E-water tank)

You can regulate the water flow to low level, middle level, high level or shut off the water by mobile APP or remote control.(middle level by default)

Silent mode

You can open the silent mode via mobileAPP, robot will turn off its voice prompt.

Cleaning mode

Automatic total cleaning

You can use mobile APP, remote controller or the button ⏻ on the robot to enter this mode. The machine will automatically scan the room and generate a map, and divide the map into several zones. In each zone, robot will start edge cleaning firstly and then planning clean the whole area in a zig-zag path. The machine will complete the cleaning in each partition one by one, orderly and efficiently, full coverage and without omission. After completed the whole cleaning, the machine will automatically return to the charging station.

completed area   completed area


area being cleaned   area to be cleaned
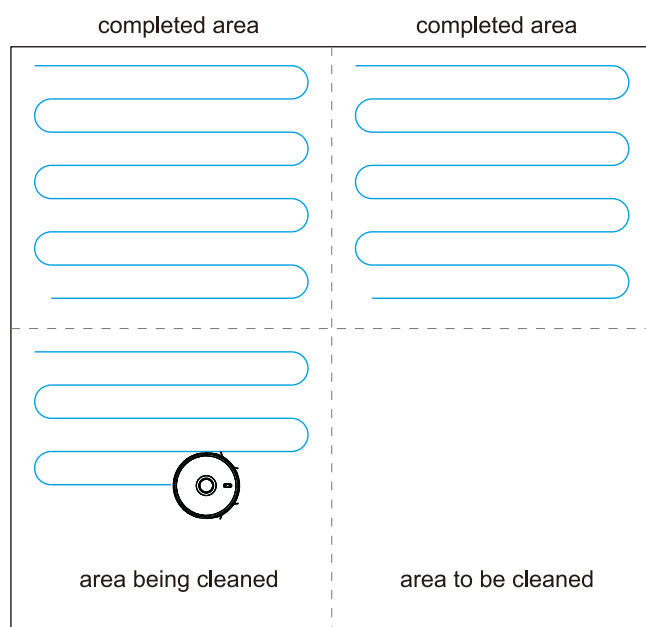
Note:
Do not move the robot casually and frequently when it is cleaning. After moving, please put the robot near the original position and re-start it, robot will try to reposition itself. If positioning sucessfully the robot will follow the planned path and continue to work. If the positioning failed, the robot will abort previous mission, scanning the room map and start a new cleaning. When it complete the cleaning it may not find the charging station.

Spot cleaning

You can use mobile APP to enter this mode.
The robot will take the point of its placement as the center, start an auto cleaning in a square area of 1.5mx1.5m: it will clean along the edge firstly, after the edge path is closed robot will start a zig-zag cleaning in this area for two times with the 3rd gear suction, and finally complete a # shape path. After completed the cleaning, the machine will automatically return to the charging station.

1.5m

1.5m
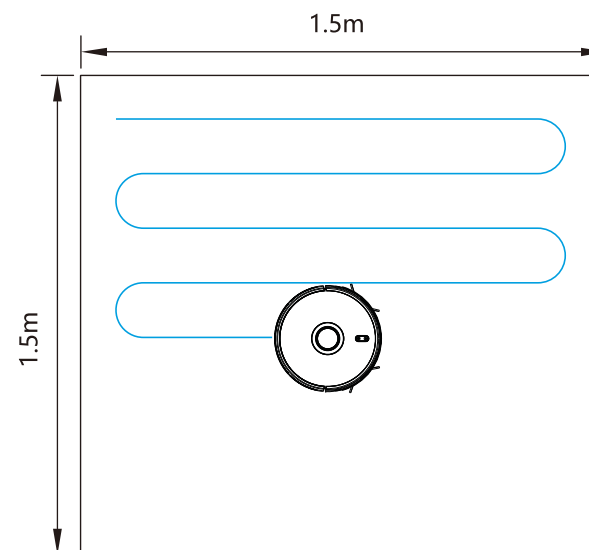
User -defined area cleaning

You can use mobile APP to set the size and location of an area where you want to clean and custom region: region merge, region split, region name, region customization (set suction and water volume of the region), region cleaning sequence .
You can set one or more areas.
The robot will clean these areas according to your set.

Cleaning mode

Local cleaning

You can use mobile APP or remote controller or long press the button on the robot for 3s to enter this mode. The robot will take the point of its placement as the center, start an auto cleaning in a square area of 1.5mx1.5m: it will clean along the edge firstly, after the edge path is closed robot will start a zig-zag cleaning in this area for two times, and finally complete a # shape path. After completed the cleaning, the machine will automatically return to the charging station.

1.5m

1.5m
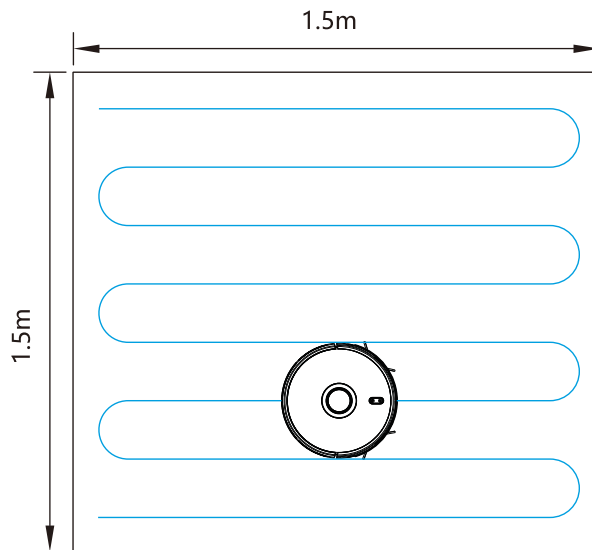
Electoral district cleaning

. You can use the mobile APP setting to select the divided area and perform cleaning, which can support multiple selection.

· Before using this function, you must complete a planned cleaning task, and clean the map area according to different colors.

· After the cleaning starts, the host may enter outside the selected area. Please pay attention to clear the ground obstacles around the selected area. This area does not provide safe isolation.

Clean exclusion area / virtual wall / floor area

Use the mobile phone APP to set up the cleaning forbidden area / virtual wall / mopping forbidden area. After the setting, the sweeping robot will not enter the forbidden area and the virtual wall isolation area when cleaning and mopping. And the set mopping forbidden area will only enter the sweeping mode after the installation of the mop bracket.
Note:
. The machine may enter the restricted area due to wrong positioning, abnormal sensors and other reasons. The permanent restricted area may think that the position of the charging seat and furniture will change greatly, so try not in the equipment work, moving or obvious changes in the home environment may lead to the failure of the map and the loss of the virtual wall / restricted area.
. Use this function to open the map and edit the save map in the APP to facilitate the next cleaning.
. This function is only used to divide sweeping areas and is prohibited to block hazardous areas.

Carpet cleaning preferences

Carpet supercharged switch
Adaptive: When adjusting the carpet, automatically adjust the suction and water outlet.
Avoid: When recognizing the carpet, the carpet will not clean the carpet area.
Ignore: When identifying the carpet, ignore the carpet area, clean the carpet and wet the carpet.

Schedule cleaning

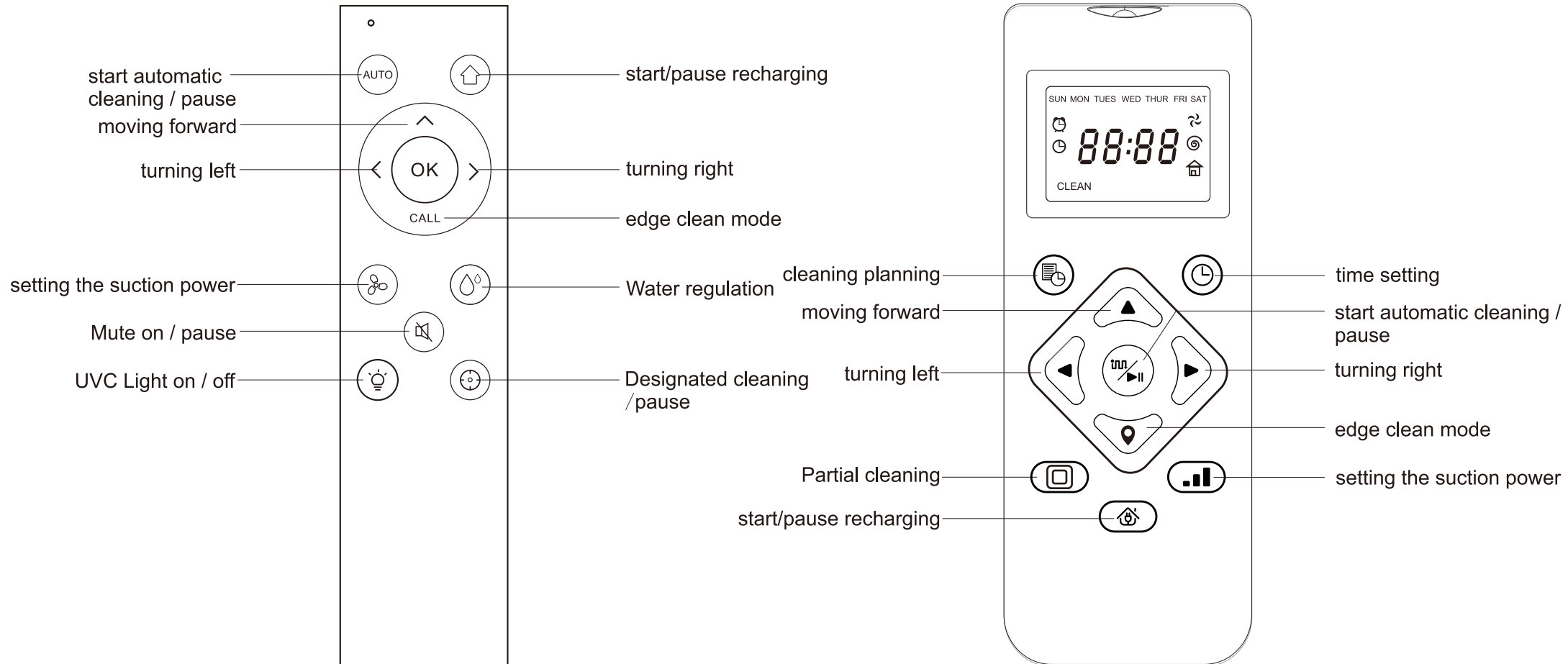You can schedule a cleaning task via mobile APP or remote control.
The robot will start a total cleaning automatically at the appointed time and return to the charging station after finished the task.
Mobile APP also support suction setting, water amount setting, cleaning area setting, cycle timing setting, cleaning times for a schedule cleaning task.

Do not disturb the mode

During the silent time period, the sweeper will turn off the voice, close the breakpoint needs to sweep, and you can use the mobile phone APP to turn on or off the silent mode.

Note: Do not move the equipment arbitrarily and frequently at work.

Instructions-Remote controller

start automatic cleaning / pause

moving forward

turning left

start/pause recharging

turning right

edge clean mode

setting the suction power

Water regulation

Mute on / pause

UVC Light on / off

Designated cleaning /pause

AUTO

OK

CALL

SUN MON TUES WED THUR FRI SAT

88:88

CLEAN

cleaning planning

moving forward

turning left

Partial cleaning

start/pause recharging

time setting

start automatic cleaning / pause

turning right

edge clean mode

setting the suction power

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Instructions-Mobile Phone APP

APP connection

please refer to WiFi connection guideline,then connect mobile phone APP.

Firmware upgrade

Check the firmware upgrade function in the mobile phone APP,if new firmware is deteced, you can upgrade it as prompted.
Note: the battery power should be ≥50% during firmware upgrade, so it's better to keep the robot on the charging station

Reset Wi-Fi

If the robot can't be connected to the mobile APP sucessfully due to a modification of router's configuration or password or for other reasons, please press robot's button 🔘 and button ⌂ simultaneously for 3s till a voice prompt " WiFi has been reset", at the same time the WiFi indicator lights turns orange and blinks fast, then it means WiFi is reset.