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KENT RoboKlean R1

Robotic Vacuum Cleaner

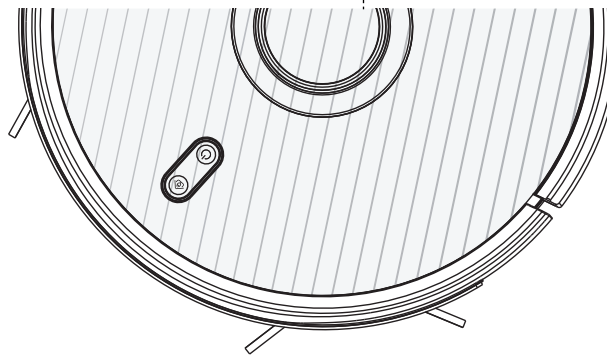
AI-Powered Cleaning. Hands Free Operation



50W
BLDC Motor



HEPA
Filter



Welcome to KENT

Dear Customer,

At the outset, allow us to thank you for your trust in **KENT RoboKlean R1 Robotic Vacuum Cleaner**. At KENT, we take pride in our reputation for product quality and industry proven performance. We are certain that your decision to own **KENT RoboKlean R1 Robotic Vacuum Cleaner** will go a long way towards keeping you and your family in good health. We are confident that you will be more than satisfied with its performance and that it will serve your needs for safer and cleaner living without any compromise.

This guide will help you in getting the best out of your **KENT RoboKlean R1 Robotic Vacuum Cleaner**. Please go through the booklet to familiarize yourself with its operation and maintenance.

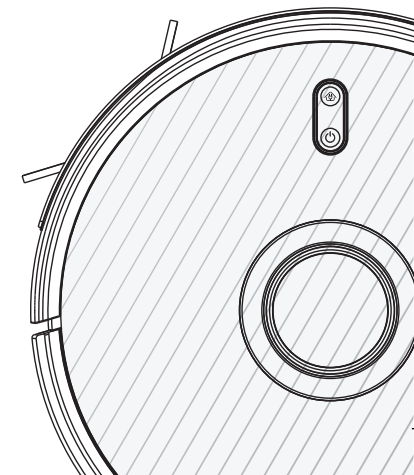
You can look forward to years of trouble-free service. To ensure that the warranty of your **KENT RoboKlean R1 Robotic Vacuum Cleaner** is effective, it is important that you fill up the enclosed warranty card and mail it to us within 15 days of purchase.

In case you require any further information, please contact your nearest KENT dealer/branch.

Happy Cleaning
KENT RO Systems Ltd.

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Introduction

We at KENT have always believed that a clean and healthy life is a right of every individual. This ethos made us embark on the journey to develop innovative solutions for cleaning the water we drink, fruits & vegetable we eat and the air we breathe. Using innovative technology supported by a proficient service network, we have been able to create a brand which has become synonymous for well-being and health.

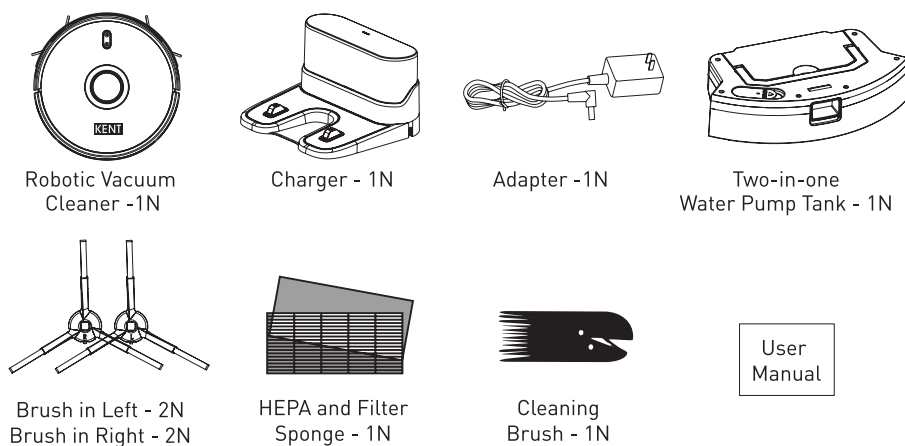
Continuing with the tradition, we now present the **KENT RoboKlean R1 Robotic Vacuum Cleaner**, with futuristic AI-Powered technology which cleans automatically with Intelligent LDS Navigation technology and mapping.

KENT RoboKlean R1 Robotic Vacuum Cleaner boasts powerful suction of up to 8,500 Pa, advanced HEPA filtration for capturing minute particles and allergens, and a BLDC motor that ensures silent operation for efficient and quiet cleaning.

Features

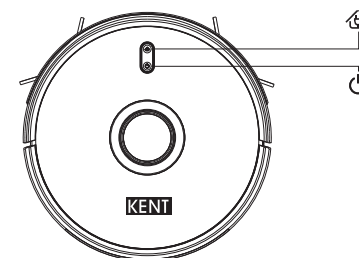
1. The **KENT RoboKlean R1 Robotic Vacuum Cleaner** features advanced LDS (Laser Distance Sensor) navigation technology.
2. 6 sets of Infra-red sensors, allowing it to map and adapt to your home's layout for efficient cleaning.
3. The Reactive AI Obstacle Recognition feature enables the vacuum cleaner to detect and avoid obstacles, reducing the risk of damage or getting stuck.
4. Control every cleaning detail remotely with the **KENT Smart Home app** - schedule, track, customise, and adjust settings with ease. Plus, enjoy hands-free convenience with seamless voice control.
5. The vacuum cleaner has a long-lasting battery that provides up to 2.8 hours of runtime on a single charge, allowing it to clean larger areas without interruption.
6. It automatically docks to recharge when low on battery—always ready for the next clean.
7. Schedule cleanings in advance for effortless, hands-free home maintenance.
8. With ultra-strong suction power of up to 8,500 Pa, the vacuum cleaner effectively picks up dirt, dust, and debris from various surfaces.

Items in the Box



Know Your Product

1. Top View



Recharge Key/Pause

- Short press to Start/Pause recharging

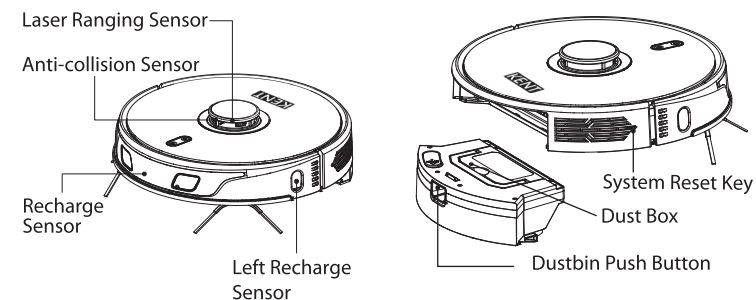
ON/OFF/ Clean/Pause

- Press and hold it for 3s to turn on/off the machine
- Short press to Start/Pause cleaning
- Under abnormal circumstances, press and hold it for 15s to force the shutdown

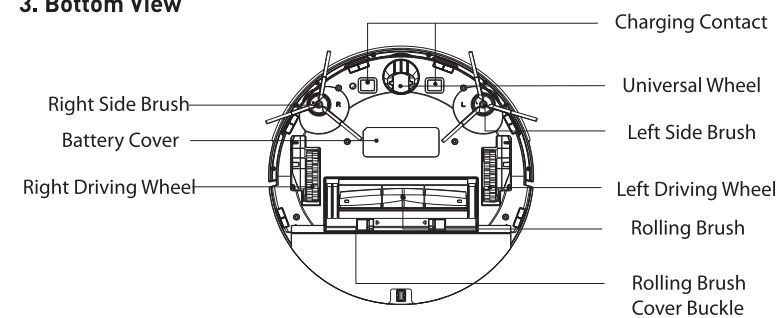
Reset WiFi

- Press two buttons simultaneously and hold it for 3s

2. Side View

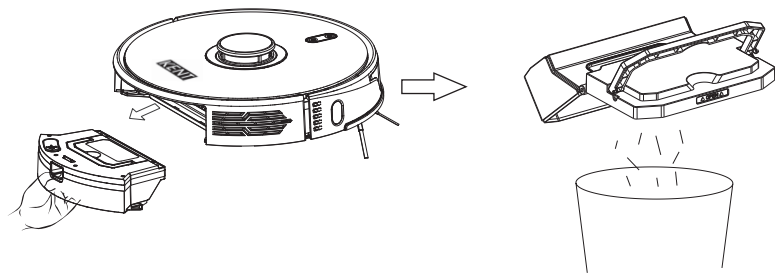


3. Bottom View

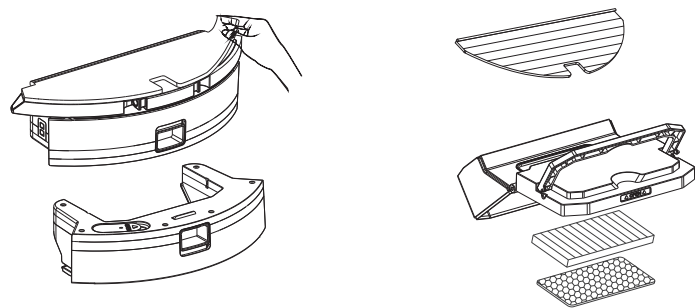


Other Accessories

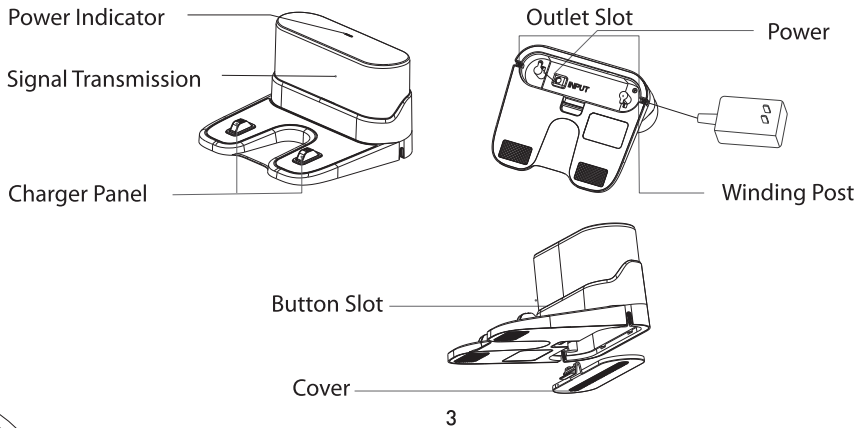
1. Dust Box



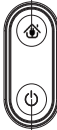

2. Two-in-one Water Pump Tank



3. Charging Station



Keys and Indicators


Graphic	System Mode	Recharging Key	Power Button	Remarks
<div>Recharging Key</div>  <div>Power Key</div> 	Machine Boot	The orange light flashes slowly until it goes out	The orange indicator blinks slowly until steady on	
		The blue light flashes slowly until it goes out	The blue indicator blinks slowly until steady on	
	Machine Cleaning	lights out	Orange light on	Battery Level > 20%
		lights out	Blue light on	
	The machine works on low electricity	lights out	The orange light blinks slowly	Battery Level < 20% to 15%
		lights out	The blue light blinks slowly	
	The machine is recharging	Orange light on	lights out	Battery Level > 20%
		Blue light on	lights out	
	Low power recharging of the machine	The orange indicator blinks slowly	lights out	Battery Level < 20% to 15%
		The blue light blinks slowly	lights out	
	The machine is in standby	lights out	Orange light on	
		lights out	Blue light on	
	Machine is asleep	lights out	lights out	
		lights out	lights out	
	Machine Charging	Orange breathing lamp	lights out	
		Blue breathing lamp	lights out	
	Machine fully charged	lights out	Orange light on	
		lights out	Blue light on	
	Abnormal Alarm	lights out	The red light is flashing	
		lights out	The red light is flashing	

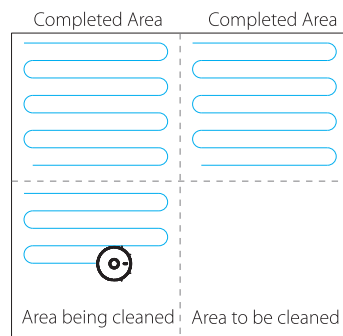
Battery

Battery life (standard range)	Eco mode ≥ 260 min
	Standard mode ≥ 170 min
	Power mode ≥ 80 min
	Max mode ≥ 50 min

Cleaning Mode

Automatic Total Cleaning

You can use the mobile app 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, the robot will start edge cleaning first and then plan to clean the whole area in a zig-zag path. The machine will complete the cleaning in each partition one by one, in an orderly and efficient manner, full coverage and without omission. After completing the whole cleaning, the machine will automatically return to the charging station.



Note:

Do not move the robot casually and frequently while it is cleaning. After moving, please put the robot near the original position and then restart it, and the robot will try to reposition itself. If positioning is successful, the robot will follow the planned path and continue to work. If the positioning failed, the robot will abort all previous missions, and then scan the room map and start a new cleaning. When it completes the cleaning it may not find the charging station.

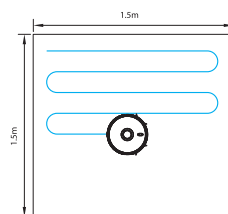
Spot Cleaning

You can use the mobile app to enter this mode.

The robot will take the point of its placement as the center, start automatic cleaning in a square area of 1.5m*1.5m. It will clean along the edge first. After the edge path is closed, the 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 completion of the cleaning, the machine will automatically return to the charging station.

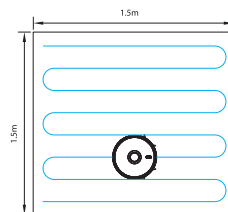
User-defined Area Cleaning

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



Local Cleaning

You can use the 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 centre and start an automatic cleaning in a square area of 1.5m*1.5m. It will clean along the edge first. After the edge path is completed, the robot will start a zig-zag cleaning in this area for two times, and finally complete a # shape path. After completion of the cleaning, the machine will automatically return to the charging station.



Electoral District Cleaning

- You can use the 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 app to set up 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 during 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 fail due to large changes in the location of charging seat and furniture, so don't try 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 saved map in the the mobile 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 carpet is detected, it automatically adjust the suction and water outlet.
- Avoid: When the carpet is recognised, it will not clean the carpet area.
- Ignore: While identifying the carpet, ignore the carpet area, clean the carpet and then wet the carpet.

Schedule Cleaning

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

Do not Disturb Mode

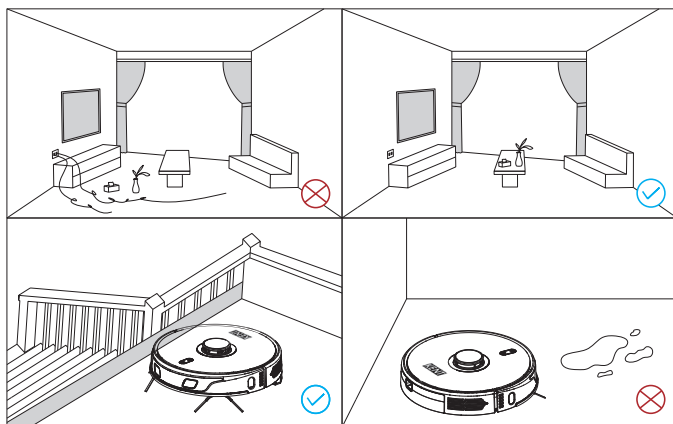
During the silent time period, the sweeper will turn off the voice, close the breakpoint needs to sweep, and you can use the mobile app to turn on or off the silent mode.

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

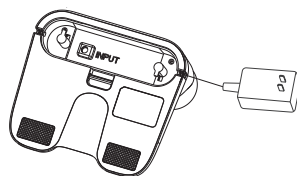
Installation Steps

Special Tips

1. Please clear the scattered wires and debris on the ground before starting, also remove 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, make sure to use a strong physical barrier to prevent personal or property damage caused by an accidental fall of the host machine.



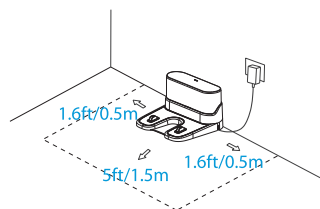
1. Connect the power cord, and then put the excess wire into the wire box.



2. Place the charging stand against a wall on a flat floor, and then connect to power.

Note:

- Make sure there is a space of more than 0.5 meters on both sides and more than 1.5 meters on the front.
- While installing, try to keep the power cord in the air; if it is close to the ground, it may be dragged by the host, causing the charging stand to lose power.
- The charging indicator light is always on when the power is on.

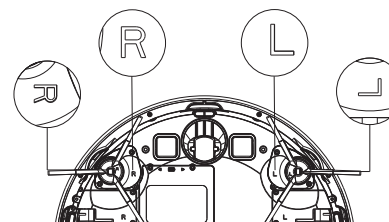


3. Please keep the charging station out of direct sunlight and don't move it around unnecessarily.

Note:


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

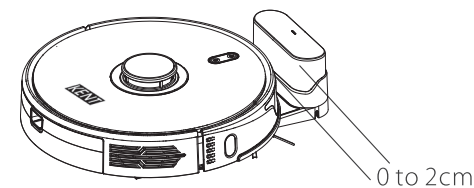
4. Installation of the Side Brush



Make sure that the left side brush and the right side brush correspond to L and R on the bottom casing, press L and R side brushes after installation, and tighten the fixing with the screws.

5. Starting up or Charging

- Long press the button  for 3s to start up the robot.



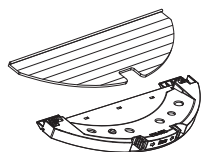
Note:

If there is insufficient power, set the host on the charging stand and the device will turn on automatically, because the device can only work correctly when the power is at least 20% (as the picture shows).

The front end of the machine should face the charging stand, so that the charging contacts on the main unit are in contact with the charging shrapnel and the distance between the front end of the machine and the charging stand is about 0 to 2 cm.

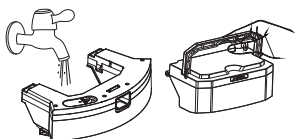
Mopping Components

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 and keep the cloth clean to ensure the cleaning effect.

2. Fill in the water tank: Remove the cap from the water tank's cover and fill it with water. Fasten the cap again on the water tank cover.



Note: Please remove the dust box from the 2-in-1 water tank before filling it with water to prevent water falling 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.

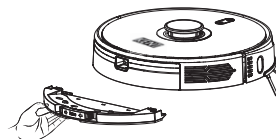
3. Install the water tank: Put the dust box into the water tank, and put the hand flat.



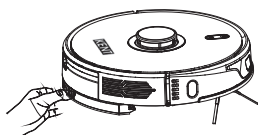
Press the button in the middle of the water tank and push it horizontally along the rear part of the host machine. The water tank is installed in place when you can hear a "click" sound.



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

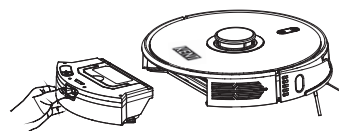


4. Remove the water tank:



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. When the water tank is not in use, please do not use it.
2. When the water tank is being filled or left unused, please remove it for safety reasons.
3. Please do not mop the carpet. The robot can be prevented from entering the carpet area by setting it as a restricted area through the mobile app.
4. The mopping bracket should be installed/used after the floor has been swept three times for a better mopping effect.
5. If you need to add water or clean the wiping cloth while the robot is working, please pause it first, then follow the preceding instructions to prevent losing the map and failing to position it.
6. This robot's mopping function is designed for wiping and is suitable for deep cleaning. It is able to adequately remove stubborn stains and replace the workforce.

Instructions for Use

On/Off button

1. Long press the button  for 3s until the indicator lights is steady on, the robot voice prompt "Power On". Robot is turned on successfully.
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 mode.

Start/Pause Cleaning

After the robot turns on, short press the button  on the host machine or use the mobile app to start/pause cleaning. (Press any key in the mobile 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, then 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 the 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 while charging on the charging seat.
- The sweeping robot automatically shuts down when the dormant time is less than 5 minutes.

Automatic Recharge:

The robot will return to the charging station automatically after completing cleaning.

Manual Mode:

- Short press the button  on the robot to start recharging.
- Press the charge key  on the mobile app to start recharging.

Note:

- Orange and blue indicator light is under blinking status while charging, indicator light will be steady on when charging is full.
- 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. Refer to "Troubleshooting" for solutions.
- The robot may stop operation or end its cleaning task.
- After 10 minutes of inactivity due to fault, the robotic vacuum cleaner may also go into sleep mode or remain inactive until charged or resolved.

Resetting Wi-Fi

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 until hear the voice prompt "Reset Wi-Fi. Please follow the app instructions to pair", release the button, and wait for the button indicator to become orange, indicating that the sweeping robot has entered the distribution network mode.

After the robot is waiting for more than 1 hour, the Wi-Fi function will be automatically turned off. If you want to connect again, please reset Wi-Fi before operation.

Suction Adjustment

You can adjust the suction power to Eco mode, Standard mode, Strong mode, Max mode by the mobile app or remote control (standard mode by default).

Suction (maximum gear)	Eco mode: 800pa \pm 15%
	Standard mode: 1500pa \pm 15%
	Strong mode: 4000pa \pm 15%
	Max mode: 7500pa \pm 15%

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

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

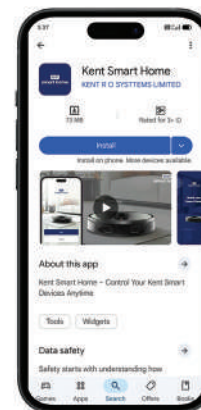
Silent Mode

You can turn on the silent mode via the mobile app, the robot will turn off its voice prompt.

Connecting to App

Download the App and Register Your Account.

Search for the KENT Smart Home app in Apple App Store or Google Play Store and download the App to your mobile phone. Open the app and log in with your account. If you do not have an account, create an account with your phone number or email ID.



Step 1

Download the 'KENT Smart Home' App by scanning the QR Code

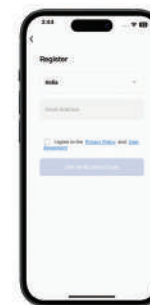


Step 2

Sign up to create an account



Click on Sign up button



Enter Email Address



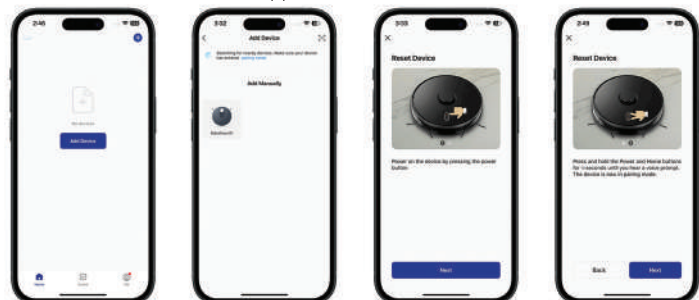
Verify the email by OTP



Set your app password

Step 3

Add vacuum cleaner to the app

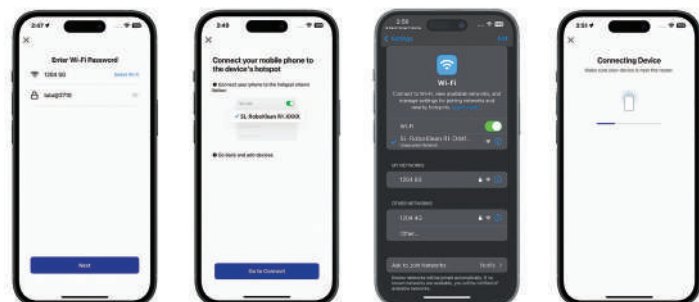


Click on Add Device or '+' button

Select 'RoboKelan R1'

Click on Power button to start the device.

Reset the device by holding Home and Power buttons for 10 seconds.



Connect device with a 2.4 Ghz or 5 Ghz Wi-Fi

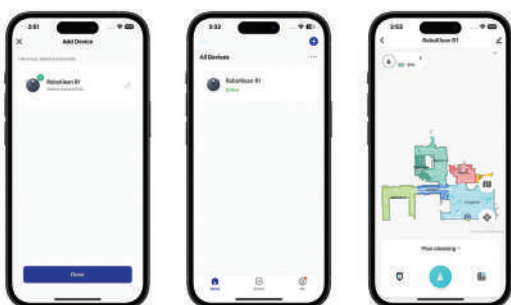
Connect your phone to device's hotspot

Select device hotspot starting 'SL-RoboKlean R1'

Wait till your device connect

Step 4

Device configuration and Use



Name the device as per your preference.

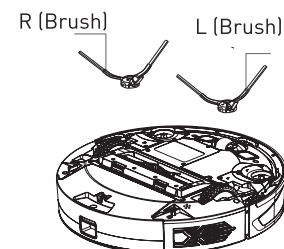
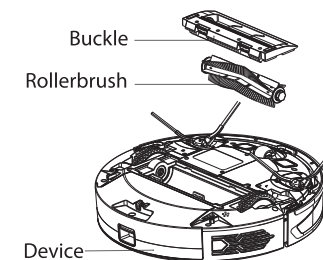
Your device is now ready to use.

Start cleaning with KENT RoboKlean R1.

Routing Maintenance

Rolling Brush (Clean it regularly)

1. Turn over the host machine and press the buckle on the main brush cover to take out the roller brush.
2. Use the configured cleaning tool to clean the dust outside the roller brush and inside the roller brush cavity and then proceed to remove the entanglements on the roller brush.
3. Re-assemble the roller brush, and press the main brush cover tightly to fix the buckle.

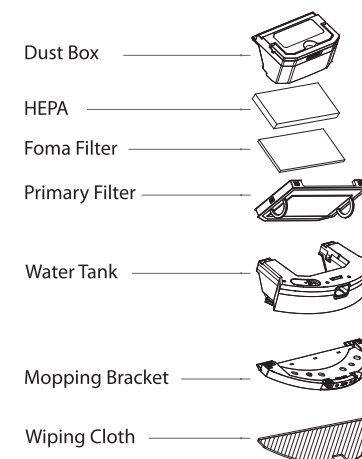
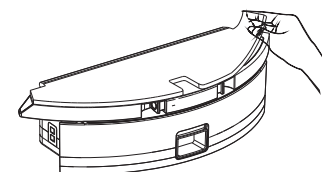


Side Brush (Clean it regularly)

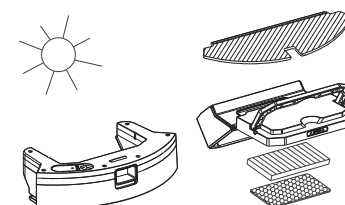
1. Flip the machine, remove the screws and then remove the edge brush.
2. Clean up the tangled hair and dirt and pack it back.
3. Correspond the left brush (L) and right brush (R) to the letters L and R on the bottom shell, and tighten the loading tool down.

Note: Please replace the side brush every 3 to 6 months so as to ensure a good cleaning effect.

2-in-1 Electric-controlled Water Tank (Clean it every time)



1. Remove the rag and drain the water from the tank.



2. Clean the dishcloth, dry the water tank and dishcloth, and wait for next use.

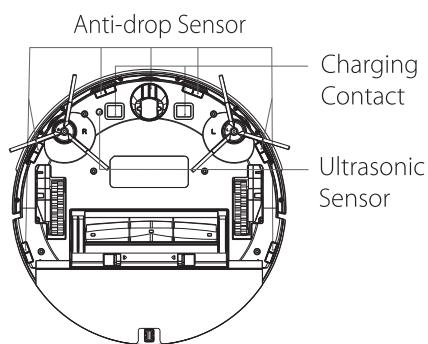
Li-ion Battery

- The host machine is furnished with high-performance lithium-ion batteries. To maintain a good performance for battery, please keep the robot charging in the charging station.
- If the robot is left unused for a long time, please shut down the power switch and keep it properly, and charge it at least every 3 months in order to avoid damaging batteries due to excessive discharge.

Sensor (Clean it regularly)

Please clean the sensor by soft mop:

1. Recharge sensor on the left side of the machine.
2. Six anti-drop sensors at the bottom of the machine.
3. Lidar sensors directly above the machine.
4. Charging contact at the bottom of the machine, charging seat and charging shrapnel (please power off before cleaning).
5. Signal transmitting area of charging base.




Troubleshooting

There are some simple problems in the process of use that can be resolved by reference to the following methods

Problem	Possible Cause	Solutions
Unable to start the product	<ul style="list-style-type: none">• Running out of power	<ul style="list-style-type: none">• Refer to 'battery charging' instructions, and charge the battery
Weak or no suction	<ul style="list-style-type: none">• Dustbin is full of dust• Filter is not correctly assembled or HEPA is blocked by dust• Nozzle and/or tubes are blocked	<ul style="list-style-type: none">• Empty the dust• Assemble the filter again or clean/replace filter• Refer to 'unblock' instructions, and unblock the nozzle and/or tube
Nozzle roller not rotating	<ul style="list-style-type: none">• Roller is blocked and protection function is activated	<ul style="list-style-type: none">• Refer to 'unblock' instructions, and unblock the nozzle
Lesser usage time	<ul style="list-style-type: none">• Battery not fully charged• Battery aging	<ul style="list-style-type: none">• Refer to 'Battery charging' instructions, and charge the battery

Warning: For solving other problems or replacement, please always report to professionals specified and unauthorised repairing are not covered by warranty

Technical Specifications

Product	: KENT RoboKlean R1 Robotic Vacuum Cleaner
Brand Name	: KENT
Product Code	: 116176
Product Generic Name	: Robotic Vacuum Cleaner
Product Colour	: Black
Net Weight	: 5 kg
Gross Weight	: 5.54 kg
Capacity	: 2-In-1 Water Tank (290ml Water Tank, 250ml Dust Box)
Product Dimensions (mm)	: Host 350 X 350 X 98mm, Charging Dock 160 (L) X 145 (W) X 90 (H)
Input Power Supply	: Single Phase 100-240V~50/60HZ. 
Maximum Vacuum Suction	: 10000 Pa
Noise Level	: < 65 dBA
Maximum Power	: 50 W

WARRANTY CARD

Product: **KENT RoboKlean R1 Robotic Vacuum Cleaner**

Product Code: 116176

Serial No.: Dealer Stamp:

Customer Details:

Customer's Name:

Customer's Address:

Customer's Phone No.:

Warranty Details:

Invoice Date: Invoice No.:



Imported & Marketed by: **KENT RO SYSTEMS LTD.**

E-6, Sector-59, Noida, U.P.-201 309, India.

E-mail: service@kent.co.in | Website: www.kent.co.in | Customer Care: 92-789-12345

TERMS & CONDITIONS OF WARRANTY

KENT warrants all new products manufactured by it to be free from defects in material and workmanship under normal usage and service from the date of purchase as under:

1. The Warranty period commences from the date of purchase by the first end-user. During this Warranty period of one year, KENT or its Authorised Service Provider (ASP) will replace or repair any part of KENT RoboKlean R1 Robotic Vacuum Cleaner, that in the opinion of KENT or its ASP, would be defective in operation due to faulty material or workmanship (i.e. manufacturing defects) with the exception of consumables.
2. The product's plastic body is not covered under Warranty and hence, it must be handled with care to guard against breakage.
3. The original purchaser of the unit can avail services under Warranty at the point of sale by producing the damaged part(s) along with the original invoice.
4. This Warranty is void if the unit is not operated under normal conditions or according to the instructions given in the manual.
5. Product returned to KENT or its ASP for Warranty examination must be shipped freight prepaid.
6. KENT or its ASP shall not be held liable for claims exceeding the cost of repair of the defects in workmanship.
7. This Warranty Agreement shall not be interpreted to render KENT or its ASP liable for injuries or damages of any kind - direct, consequential or contingent to persons or property.
8. KENT or its ASP shall not be held responsible by representative or buyer for failure to abide by any of the obligations of this Warranty Agreement, if such failures are the result of circumstances of Forces Majeure such as (but not limited to), floods, earthquakes, transportation strikes, labour disputes with outside suppliers or any other conditions beyond the control of KENT or its ASP.
9. KENT or its ASP shall not be held liable for repair or alterations made without prior written approval for product failures resulting from the lack of proper maintenance.
10. This Warranty Agreement excludes all products/component parts or damage to any part of this KENT RoboKlean R1 Robotic Vacuum Cleaner which in the opinion of KENT or its ASP have been subjected to misuse; misapplication; negligence; alteration; accident or operation contrary to our instructions. Incompatibility with accessories not installed by KENT or its ASP, or that have been repaired with component parts other than those manufactured by or obtained from KENT or its ASP. Damage caused by freezing, flood, fire or Act of God is not covered by this Warranty. In all such cases, regular charges will apply. This limited Warranty does not include service to diagnose a claimed malfunction in this unit.
11. KENT reserves the right to alter or improve design and specifications at any time, without any contingent obligations to prospective buyers or owners of the products previously sold.
12. Any disagreements and obligations based upon the purchase of KENT products and thereby imposed on KENT or its ASP shall be governed by and construed according to the laws of INDIA and subject to the jurisdiction of Delhi Courts only.
13. KENT or its ASP assumes No Warranty liability in connection with this KENT RoboKlean R1 Robotic Vacuum Cleaner other than that specified herein. This Warranty is in lieu of all other warranties, expressed or implied, including warranties of fitness for a particular purpose. KENT or its ASP does not authorise any person or representative to assume for them any other obligations on the sale of this KENT RoboKlean R1 Robotic Vacuum Cleaner.
14. Under no circumstances, the liability of KENT or its ASP shall exceed the value of the product.
15. Under no circumstances are the terms mentioned above negotiable and no employee of KENT or its ASP has the authority to supersede them.