

TL-R30 Robot Vacuum Cleaner User Manual

Please read this manual carefully before using the product, and keep it properly.

Table of contents

Safety instruction _____ 01

Product Introduction _____ 03

Production Installation _____ 06

Product Use _____ 07

Product Maintenance _____ 09

Common Problems _____ 12

Troubleshooting _____ 13

Basic parameters _____ 14

FCC WARNING _____ 14

Safety instruction

Use instructions

- This product is only used for floor cleaning in home environment, and should not be used in outdoor, non-floor, commercial or industrial environment.
- This product may not be used by people with physical, sensory or intellectual disabilities and people without relevant experience and knowledge (including children), unless there is a guardian's care or guidance to ensure that they can use this product safely.
- Do not let children use the robot vacuum cleaner as a toy. When the robot vacuum cleaner works, please supervise children and pets to keep them away as far as possible.
- If the charging dock is damaged, it must be replaced with special components purchased from its manufacturer or maintenance department.
- Do not place children or pets and anything on the stationary or running robot vacuum cleaner.
- Do not place the cleaning brush in the area where children can touch it.
- Do not use it in suspended environments (such as duplex floors, open balconies and furniture tops) without protective fences.
- Do not use it in an environment where the temperature is higher than 35°C, lower than 0°C or there are any liquids and sticky objects on the ground.
- Do not use it to clean any burning objects.
- Before use, please put away the wires on the floor of your home to avoid dragging when the robot vacuum cleaner is running.
- Please put away the fragile items, valuables and sundries (such as vases, plastic bags and mirrors, etc.) on the ground to avoid the damage of household items caused by the obstruction or slight collision of the main unit during operation.
- Do not let the robot vacuum cleaner suck hard objects or sharp objects (such as decoration waste, glass and nails, etc.).
- Do not use mopping mode on the carpet.
- Please clean and maintain the robot vacuum cleaner and dirt disposal dock in the power-off state
- Do not turn the robot vacuum cleaner upside down on the ground for a long time.
- Do not wipe with wet cloth or wash the main unit and dirt disposal dock with any liquid.
- Please use this product according to the instructions in the manual or quick guide. Any loss caused by improper use shall be borne by the user.
- If it is needed to transport products, please ensure that the robot vacuum cleaner is turned off, and it is recommended to use the original packaging box for packaging protection.

Safety instruction

Battery and charging

- Do not use any third-party battery or dirt disposal dock.
- Do not disassemble, repair or modify the battery or dirt disposal dock without permission.
- Do not place the dirt disposal dock near the heat source (such as radiator, etc.).
- Before scrapping this product, you must disconnect the power supply and take the battery out of the machine for environmental protection.
- If it is not used for a long time, please turn off the robot vacuum cleaner after being fully charged and put it in a cool and dry place. It is recommended to charge at least once every three months to avoid battery damage.

Instructions on environmental protection

The chemical substances contained in the built-in lithium-ion battery of this product will pollute the environment. Please dismantle it by professionals before scrapping it, and hand it over to a professional battery recycling agency for centralized disposal.

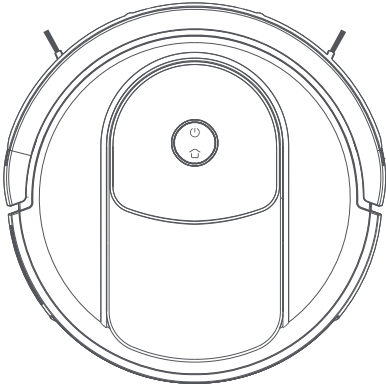
The following information is only applicable when the robot vacuum cleaner is abandoned, not the daily operation instructions:

1. Let the robot vacuum cleaner run until it can't be cleaned with low power without touching the dirt disposal dock;
2. Turn off the robot vacuum cleaner;
3. Remove the screws of the battery pack of the robot vacuum cleaner;
4. Take out the battery pack and press the fastener to pull out the connector plug of the battery pack.

Note:

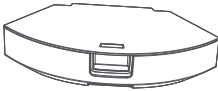
- When disassembling the battery, make sure that the battery is exhausted and operated away from the dirt disposal dock.
- Please disassemble the whole battery pack together, and do not damage the battery pack casing, so as to avoid short circuit or leakage of dangerous substances.
- If you touch exudate flows out from the battery incautiously, please rinse with plenty of water and go to the hospital promptly.

Product Introduction

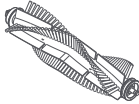


Main unit

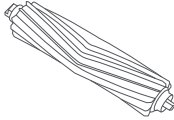
List of accessories



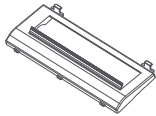
Dust box



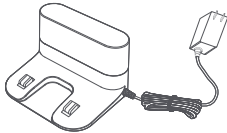
Main brush



Rubber brush



Main brush cover



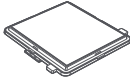
Charging dock



Side brush × 4



Cleaning brush



Dust box filter screen × 2

Note: The illustrations of products, accessories and user interface in the manual are schematic diagrams for reference only. Due to the product updating and upgrading, there may be some differences between the physical products and the schematic drawings. Please take the physical products as the standard.



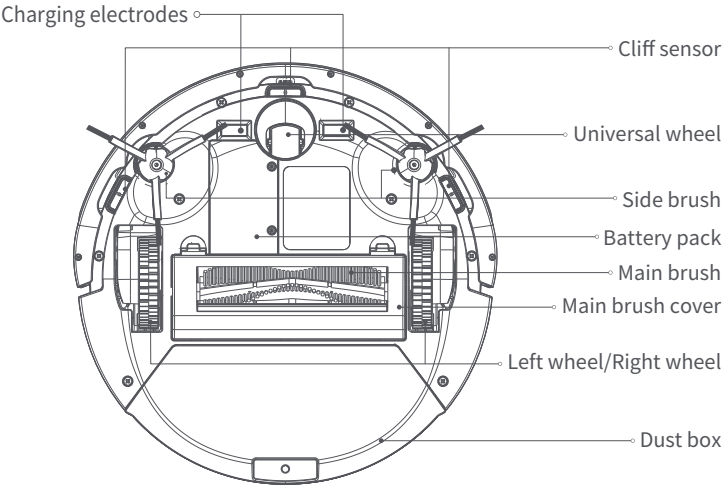
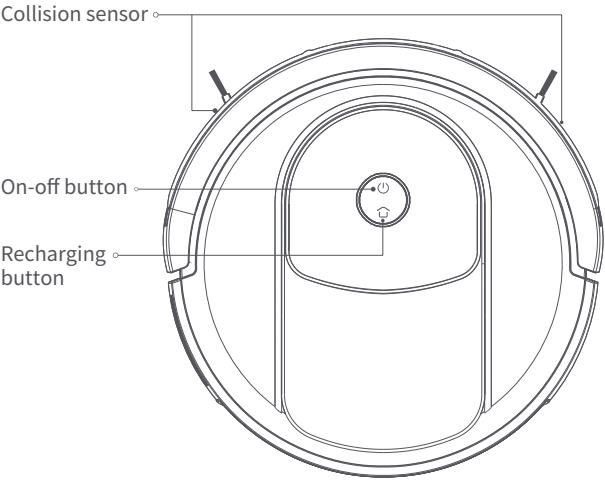
User Manual



Quick Guide

Product Introduction

Main unit



On-off button

Press for a long period of time, powering-on or powering-off
Press for a short period of time, cleaning or pausing

Recharging button

In operation, press for short time, main unit pauses
In pausing, press for short time, start recharging
In recharging, press for short time, stop recharging

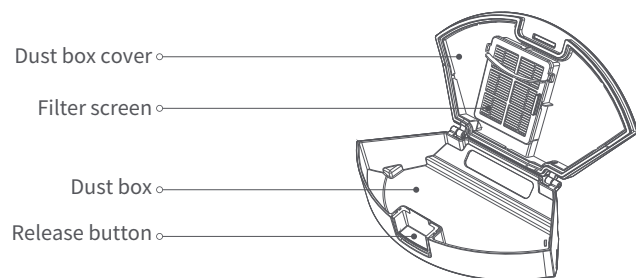
 +  , press for 3s to reset Wi-Fi to enter network configuration

Description of button indicator status of the main unit

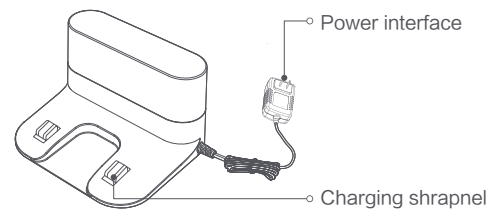
White light is always on	In idle / working / pausing
White light extinguishes	In sleeping / do not disturb / fully charged
White light flashes	In downloading firmware / upgrading and installing firmware / networking / charging
White light breaths	In charging / powering-on
Yellow light flashes	Entering network distribution mode / main unit abnormal
Yellow light breaths	In low-power charging
Yellow light is always on	Not networking

Product Introduction

Dust box

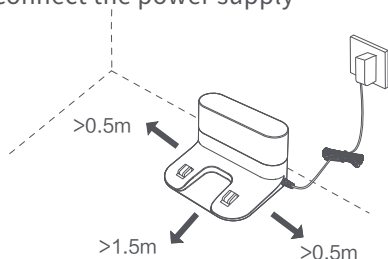


Charging dock (against the wall)



Production Installation

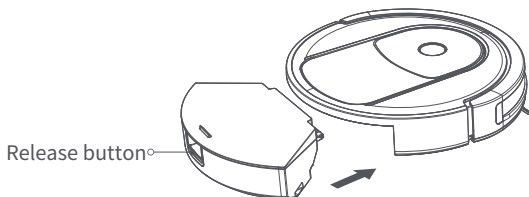
1. Place the dirt disposal dock against a wall and connect the power supply



Tips:

- Make sure there is more than 1.5m space in front of the dirt disposal dock and more than 0.5m space on both sides;
- Do not expose the dirt disposal dock to direct sunlight.

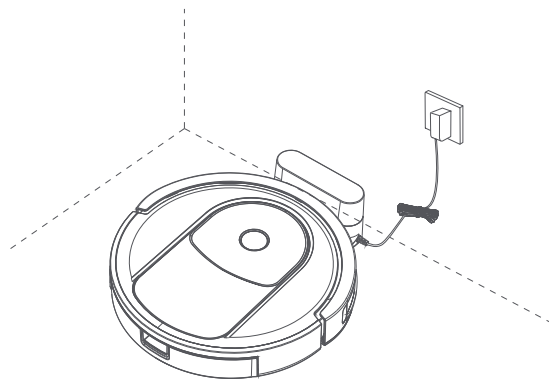
2. Press and hold the dust box release button with your hand, push the dust box into the main unit, and when you hear a “click” , it will be installed in place.



Tips: Clean the dust box regularly to avoid the dirt affecting the cleaning effect.

3. Power on and charging

At initial use, long press "⏻" button for 3 seconds to power on, and manually place the main unit onto the charging dock by aligning the pole piece with the charging electrode. In daily use, you can start intelligent recharging by directly pressing "⬆" button.



Tips:

- When main unit fails to power on due to low battery level, place it on dirt disposal dock for charging.
- The main unit will start up automatically after connected to the dirt disposal dock, and cannot be shut down during charging.

Product Use

Power-On/Off

When the main unit is charging, it will automatically turn on and cannot be turned off.

Press “⏻” for 3s, indicator light is on and the main unit is on. When the main unit is not charged and paused, press “⏻” for 3s to make it power-off.

Cleaning

In the power-on state, press the “⏻” button for short and the main unit will automatically enter the cleaning mode.

Pause

When main unit is in operation, press any button to cease operation; press button “⏻” to continue sweeping; press button “⏮” to return it to charging dock for charging and finish current sweeping task.

Sleep

Unless during charging, the main unit will go to sleep automatically when it is left idle for 5 minutes, and power off automatically when it has slept for 6 hours. In sleep status, press any button will wake main unit up.

Tips: Main unit will not go to sleep when charging on the charging dock.

Equipment recharge

In the power-on state, press the “⏮” button for short, and the main unit will enter the recharging mode; when the power of the main unit is lower than 20% during cleaning, it will recharge automatically.

Reset Wi-Fi

When the main unit is turned on, press and hold the “⏻” + “⏮” buttons for 3s until you hear a sound prompt, and when the indicator is in a yellow flashing state, it means that the WiFi reset is successful. Equipment network distribution: open the APP to add equipment, and follow the APP prompts.
Only Wi-Fi network in 2.4GHz frequency is available to this product.

Edge Cleaning

Select edge cleaning in APP. After the main unit automatically identifies the cleaning area, it will be cleaned along the edge. After the cleaning, the main unit will automatically return to the charging dock.

Fixed-point cleaning

Select fixed-point cleaning in the APP, or press and hold “⏮” button for 3s to start fixed-point cleaning. Take the main unit as the center for spiral cleaning, and clean the designated area with a radius of 60cm. After cleaning, return to the starting point, and then return to the charging dock.

Global cleaning

Select global cleaning in APP to start global cleaning. After the main unit is started, clean all areas. After the cleaning is completed, the main unit will automatically return to the charging dock.

Product Use

Scheduled cleaning

User can schedule a cleaning task in App, and main unit will start the cleaning task as scheduled and return to charging dock upon end of the task.

Tips: Any scheduled cleaning task will not be executed during the time when non-disturbance mode is activated.

Manual control

Select manual control in the APP for cleaning, and the main unit can be controlled to move forward, left and right through the App; when the button is pressed, the cleaning is turned on; when the button is raised, the main unit will automatically stop and the cleaning will be turned off.

Suction adjustment

The cleaning suction of the main unit can be set through the APP, and the default is the standard gear.

Robot searching

The robot searching can be set through the APP, and the location of the main unit can be found through the sound of the robot vacuum cleaner.

Volume adjustment

The volume of the robot vacuum cleaner can be controlled and adjusted by APP, and the volume can be adjusted to 0, 10%, 20%, 30%...100%.

Firmware upgrade

The APP can control the device to upgrade the firmware; during the upgrade process, when the main unit is on the charging dock or the power is greater than 30%, it is not allowed to start cleaning during the upgrade.

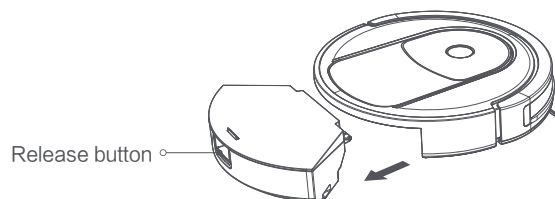
Robot sharing

Through the APP, you can share the main unit with your family, which can be controlled by many people.

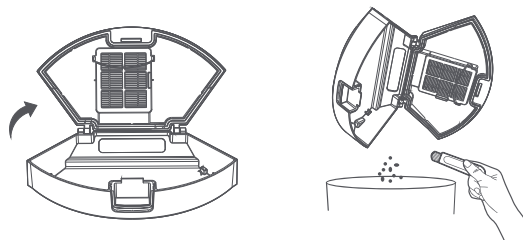
Product Maintenance

Dust box

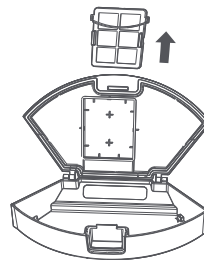
1. Press and hold the dust box release button, and pull out the dust box from the bottom.



2. Dump the garbage in the dust box and clean the dust box with a cleaning brush.



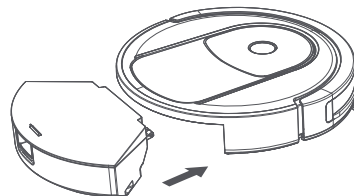
3. Take out the filter screen, clean the filter screen.



Tips:

- It is recommended to thoroughly clean the dust box at least once a week. Please be sure to dry the dust box and filter screen before using it (at least 24 hours).
- It is forbidden to flush the dust box with water to avoid damaging the electronic components on the dust box.

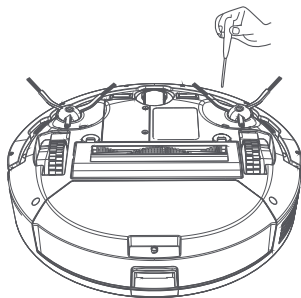
4. Install the dust box back according to the direction shown.



Product Maintenance

Side brush

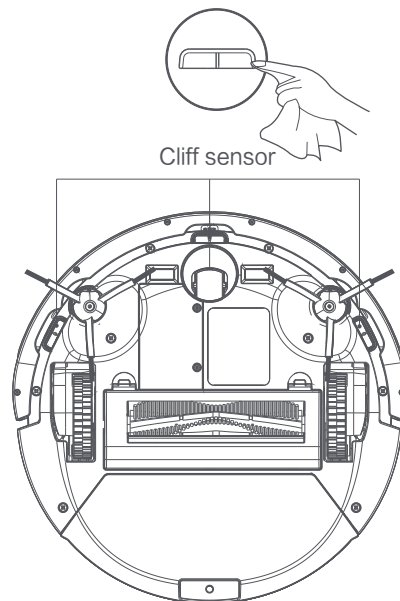
1. Turn over the main unit and remove the side brush fixing screw.
2. Remove and clean the side brush.
3. Replace the side brush and lock the screws.



Tips: It is recommended to replace the side brush every 3–6 months to ensure the cleaning effect.

Cliff sensor

Please use a soft dry cloth to clean the cliff sensor regularly.

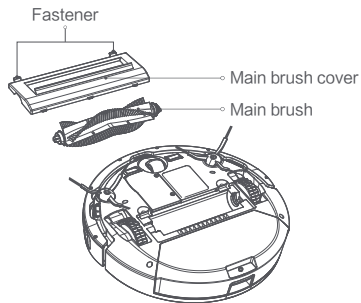


Tips: Do not use chemicals such as detergent or spray to clean the sensor.

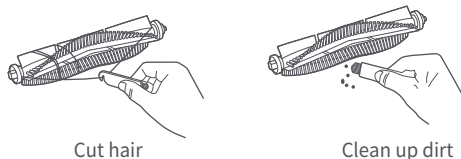
Product Maintenance

Main brush

1. Turn over the main unit, lift the fastener and remove the main brush cover.
2. Take out the main brush upward.
3. Cut the hair wound on the main brush with a knife on the cleaning brush and clean the main brush.
4. Install the main brush back and press the fixing fastener of the main brush cover.

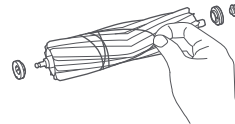


Cleaning method of main brush



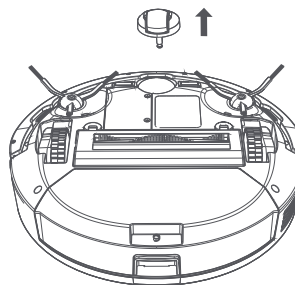
Tips: It is recommended to replace the main brush every 6-12 months to ensure the cleaning effect.

Cleaning method of rubber brush



Universal wheel

1. Turn over the main unit and pull out the universal wheel upwards.
2. Clean the hair and dirt on the universal wheel.
3. Reinstall the universal wheel.



Common Problems

Problem	Solution
Unable to power on	The battery is low and please charge it before using it.
Unable to charge	The dirt disposal dock is not powered on and please make sure the power connection is successful. The contact of the charging electrode is poor and please clean the charging shrapnel of the dirt disposal dock and the charging pole piece of the main unit. The ambient temperature is too low(below 0°C) or too high(above 35°C).
The main unit cannot return to charge	Please make sure there is enough space around the dirt disposal dock. Please ensure that the identification area on the surface of the dirt disposal dock is free from dust and dirt. The dirt disposal dock is not powered on. Please power on the dirt disposal dock before using it.
The main unit behavior is abnormal	Please turn it off and turn it on again.
The main unit is offline	Please make sure that the main unit is successfully connected to the network, and that the main unit is always in the range of Wi-Fi signal.
The main unit cannot connect to Wi-Fi	Please make sure that the main unit and the charging dock are within the range of Wi-Fi signal, and the signal is good. Please try resetting Wi-Fi before pairing.
Abnormal sound during cleaning	The main brush, the side brush, the left/right wheel or the universal wheel may be entangled with foreign matters. Please power it off and clean it up.
Cleaning capacity is declined	The dust box is full, please clean it. The filter screen is blocked, please clean it. The main brush is entangled by foreign matter, please clean the main brush.
Fail to do scheduled cleaning	Scheduled cleaning cannot be triggered when the battery is low. Please confirm that the main unit is connected to the network. If the main unit is not connected to the network, the time cannot be synchronized, and the scheduled cleaning will not start.
Whether it is need to charge for 24 hours for the first use	The main unit has built-in high-performance lithium-ion battery, which has no memory effect and can be used when fully charged, without charging for 24 hours.
Whether it is needed to cut off the power supply of the dirt disposal dock and turn it off when charging is completed	During daily use, the standby power consumption is extremely low, and there is no need to turn off the power. Keeping the charging state is conducive to the best performance of the battery. If it is not used for a long time, please cut off the power supply of the charging dock and power it off for storage. It is recommended to charge the battery once every 3 months to prevent the battery from being damaged due to over-discharge.

Troubleshooting

Fault Message	Solution
Clean cliff sensor and relocate robot.	Robot is off ground. Relocate and restart robot. Cliff sensor is dirty. Clean the sensor.
Check collision sensor and remove any foreign object on it.	Collision sensor is jammed. Remove foreign object by tapping the sensor. If there is no foreign object, relocate and restart robot.
Place robot on a horizontal ground and start it.	When starting, the tilt of the main unit is detected. Please put the main unit on the level ground and restart. The wheel is suspended, please move to a new position to start.
Remove any obstacle around robot and try again.	Robot may be jammed or trapped. Remove any barrier around it.
In case the fan is abnormal, please check and clean the dust box and filter screen	The dust box is full, please clean it. The filter screen is blocked, please clean it.
In case recharging is failed, please put the main unit back into the charging dock	The main unit can't sense the position of the charging dock. Please put the main unit back to the charging dock.
In case the driving wheel is abnormal, please check and clean the driving wheel	The driving wheel may be entangled with foreign matter, please power it off and clean it up.
In case the side brush is abnormal, please check and clean the side brushing	The side brush may be entangled with foreign matter, please power it off and clean it up.
In case the main brush is abnormal, please check and clean the main brush	The main brush may be entangled with foreign matter, please power it off and clean it up.

Basic parameters

Main unit

Product Name	Robot Vacuum
Model	TL-R30
Size	325x325x80mm
Rated Power	40W
Rated Voltage	14.4V ⁻⁻⁻
Voltage	20V ⁻⁻⁻
Battery capacity	2600mAh (nominal capacity) 2500mAh (rated capacity)
Net weight	3.1kg
Wireless Connection	Wi-Fi IEEE 802.11b/g/n 2.4GHz

Charging dock

Model	CDZ330A
Dimensions	150x128x84mm
Rated input	20V ⁻⁻⁻ 0.6A
Rated output	20V ⁻⁻⁻ 0.6A

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
- To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.