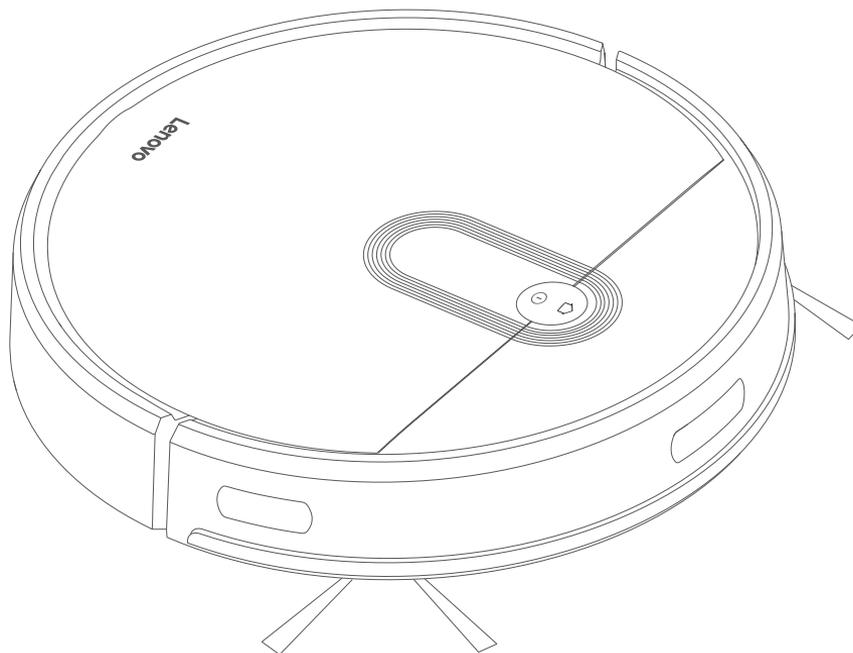


# Lenovo Cleaner E2/E2 Pro User Manual



Please read the User Manual before using---Warranty card included, pictures are for reference only.



# Safety information

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## Use Restrictions

- This machine is only used for floor cleaning at home. Please do not use it outdoors (such as an open balcony), non-ground area (such as a sofa), and commercial or industrial environment.
- Do not use the machine in suspended environments without protective fences, such as duplex floors, open balconies, and top of the furniture.
- Do not use the product in an environment where the temperature is above 40°C or below 0°C, or there are liquids and viscous objects on the ground.
- Hang up the ground cable at home before use to avoid dragging the cable when the machine is running.
- Put away the fragile objects and sundries (such as vases and plastic bags) on the ground. Otherwise, the machine may be blocked or a slight collision may cause damage to valuables at home.
- Keep the machine away from people (including children) with physical, mental or sensory impairments.
- Do not allow children to use the machine as a toy. Please keep children and pets away from the machine when the machine is running.
- Keep the cleaning brush at a place that cannot be reached by children.
- Do not place any object (including children and pets) on the stationary or moving machine.
- When the machine is working, keep the hair of humans or pets or fingers far away from the suction port of the machine.
- Do not use the machine to clean burning objects, such as unextinguished cigarette butts.
- Do not use the machine to clean long-haired carpets. Some dark carpets may not be cleaned normally.
- Do not use the machine to vacuum hard or sharp objects, such as decoration waste, glass, and iron nails.
- Please clean or maintain the machine and docking station when the machine is powered off or when the power supply is disconnected.
- Do not use a damp cloth or any liquid to wipe any part of the machine.
- Please follow the instructions in this manual when using the machine. The user should be liable for any loss and injury caused by improper use.
- Do not use the mopping function on the carpet or the top of the furniture.
- Remove the water tank when charging the machine.
- Do not use on total black carpets or floors.

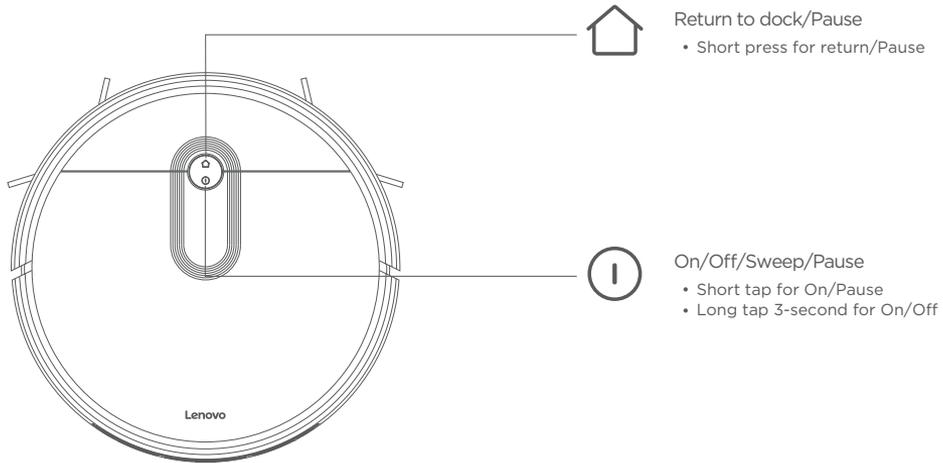
## Use Restrictions

- Do not use any third-party batteries, docking stations, or chargers.
- Do not disassemble, repair, or modify the battery or docking station without permission.
- Do not place the docking station near heat sources, such as radiators.
- Do not use a damp cloth or wet hands to wipe or clean the docking station shrapnel.
- Dispose used batteries properly, and send them to professional recycling agencies.
- If the power cord is damaged or broken, stop using it immediately and buy a new one through official channels.
- To transport the machine, ensure that the machine is powered off. It is recommended that you use the original box for packaging.
- If you do not use the machine for a long time, power it off and keep it in a dry and cool place. Charge the machine at least once every 3 months to avoid damage to the battery due to excessive discharge.

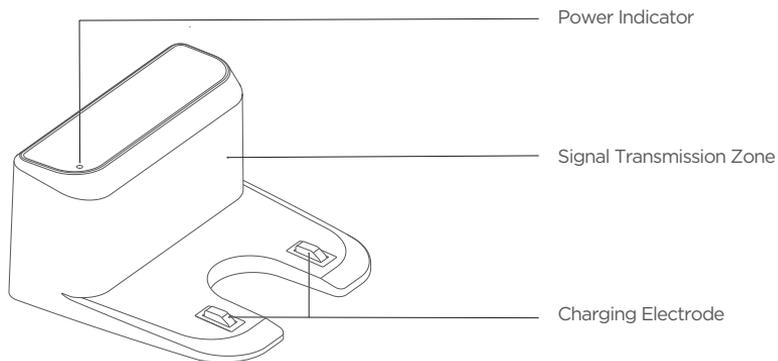
# Product

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## Main machine



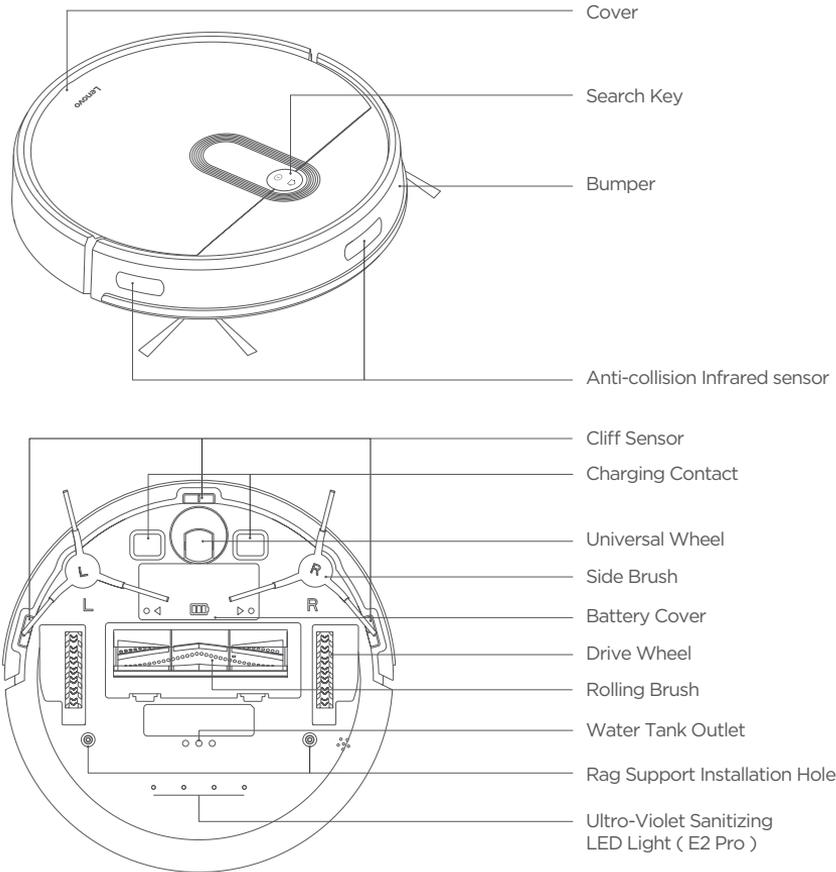
## Charging Dock



# Product

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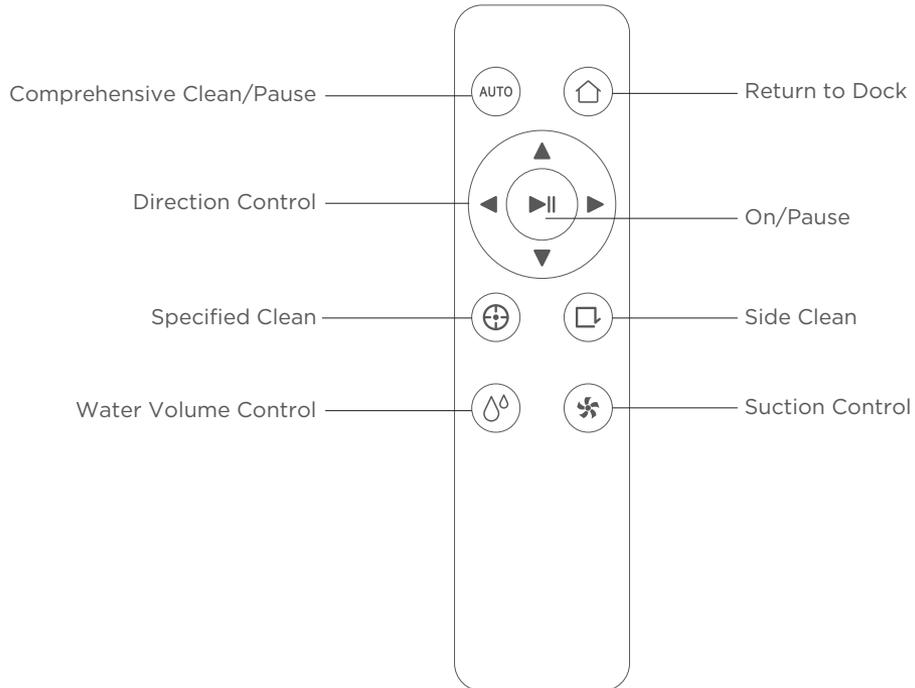
## Sensor and Structure



# Product

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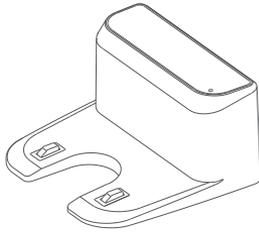
## Remote Control (E2 Pro)



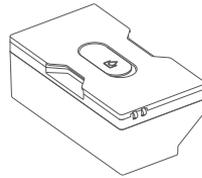
# Product

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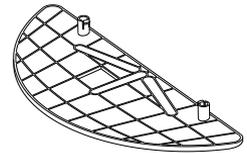
## Accessories



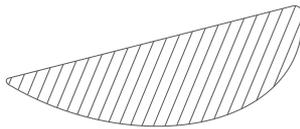
Charging Dock X 1



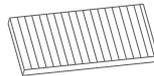
Electric Water Box X 1



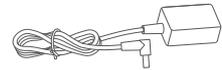
Rag Support X 1



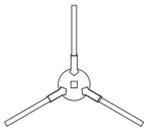
Rag X 2



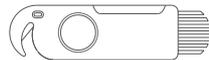
HEPA Filter X 2



Adapter X 1



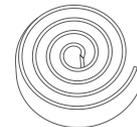
Side Brush Left X 2  
Side Brush Right X 2



Cleaning Brush X 1



Controller X 1 (E2 Pro)

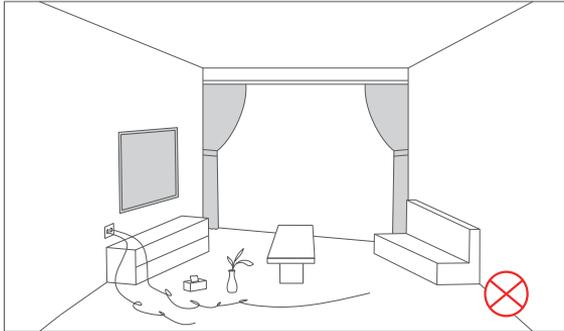


Magnetic Strip X 1 (E2 Pro)

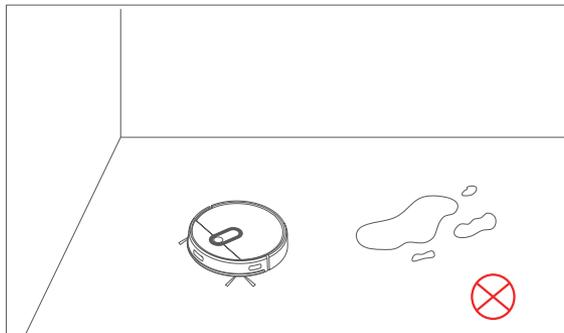
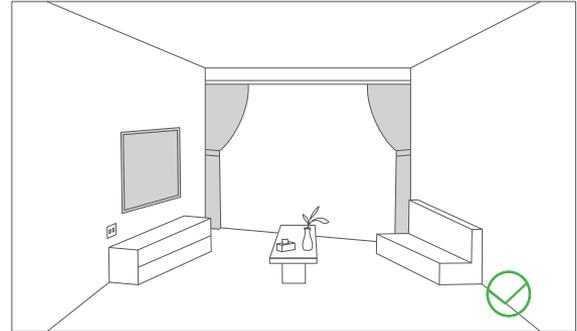
# Installation

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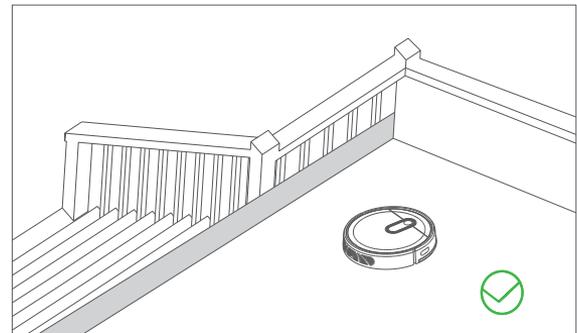
## Precautions



Before starting the vacuum cleaner, clean up wires and sundries scattered on the ground, and remove easy-to-fall, fragile, valuable and potentially dangerous items. Avoid being entangled, jammed, dragged, or knocked down by the main unit; otherwise, personal or property damage may be caused.



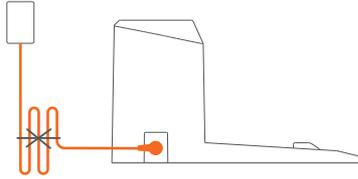
Do not use the robot to clean liquid.



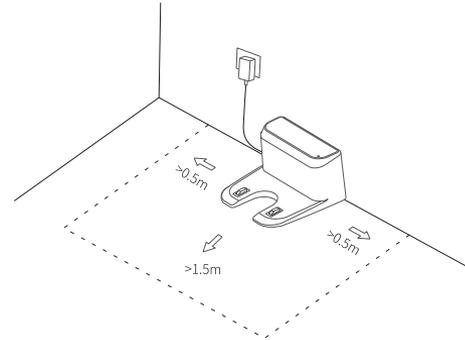
When used in a suspended circumstance, it shall be protected by rails to avoid accidental falling or pushing other articles from falling; otherwise, personal or property damage may be caused.

# Installation

1. Connect the power line and keep it in a proper length.



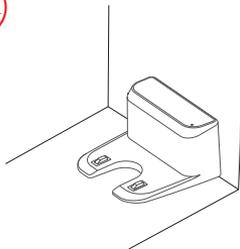
2. Place the charging dock on a flat ground against the wall; connect to the power supply.



Note:

- Ensure a space more than 0.5 m from the left and right of the charging dock and 1.5 m in front of the charging dock.
- The power line perpendicular to the ground may be dragged by the main unit, resulting in the dock power-off.
- The charging indicator is kept on when electrified.

3. Do not move the charging dock randomly; avoid direct sunlight on the dock.

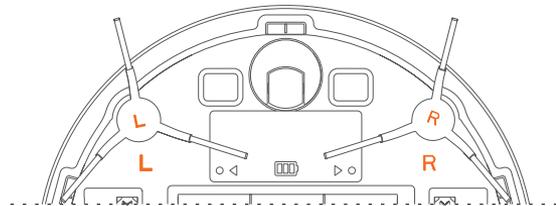


Note:

Sunlight may interfere signals of return-for-charging, and then the main unit fails to return back to the charging dock.

4. Install side brushes

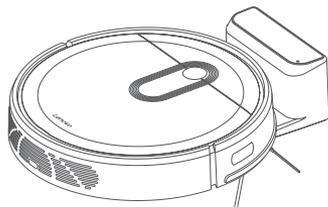
Put the left brush (L) and right brush (R) against the letters L and R on the bottom respectively; move down for “click” to finish installation.



# Installation

## 5. Power on and charging

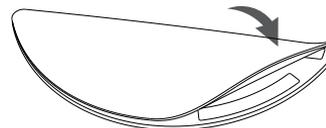
Hold the ① button to power on the machine. When the indicator is on, put the main unit against the charging dock for charging. The voice of “start charging” prompts successful charging.



Note: The machine cannot power on in case of insufficient battery. Please place the main unit on the dock to allow automatic power on.

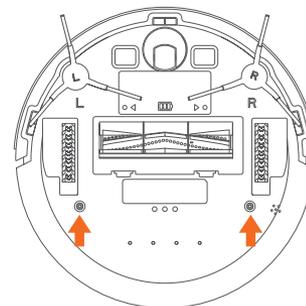
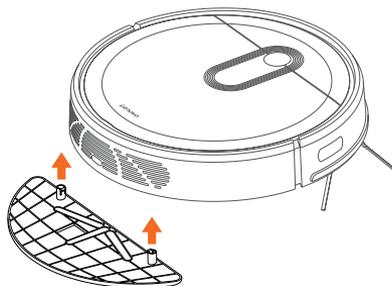
## 6. Install mopping mode

① Install rag: Flatly attach the rag to the rag support



Note: It is suggested to clean the rag once used, to guarantee the cleaning result.

② Install the rag support: Insert the support into the installation hole.

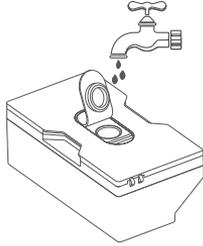


Installation Hole for Rag Support

# Installation

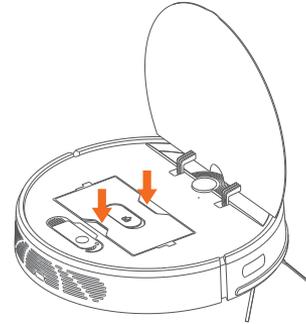
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③ Fill the water tank with water. Open the cover, fill water and close the cover.



Note: Do not spray and immerse the water tank.

④ Put in the water tank. Bring and put the water tank into the machine. Slightly press it to ensure proper installation. Then cover the machine. Tap ① the button on the main unit to enable the mopping mode.



## 7、 Use instruction for mopping mode

- For safety purposes, exit the mopping mode in case of charging or out of operation.
- Do not use the mopping function on the carpet.
- It is suggested that the mopping mode should not be enabled unless sweeping is done first, to achieve a better mopping result.

# Use Instructions

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## Power on and off the machine

Tap and hold the  button for 3 seconds to power on the machine. Then, the power indicator is on, and the vacuum cleaner enters the standby state. Tap and hold the  button for 3 seconds to power off the machine.

Note: The main unit in the charging state cannot be powered off.

## Charging

Auto mode: After cleaning, the main unit automatically returns to the dock for charging.

Manual mode: In the pause state, press the  button to activate the "return for charging" mode or use the controller or the smart APP for charging.

Note: If the main unit fails to find the dock, it will automatically return to the starting point. In this case, manually put the main unit back to the dock for charging.

## Sweeping/Pause

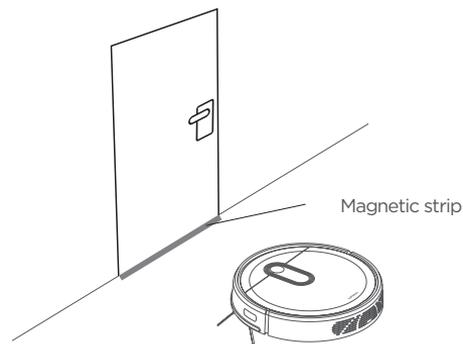
Once the machine powers on, tap the  button on the main unit or use the controller or the smart APP to start sweeping.

Note:

- The machine cannot clean liquid.
- If the power is lower than 15%, the machine cannot work. Therefore, charge the machine before sweeping.
- If the power is lower than 15% during sweeping, the machine will automatically return back to the dock for charging.
- Before cleaning, tidy up all kinds of wires on the ground (including the power cord of the dock). Otherwise, the machine may drag the wires while cleaning, which may cause power failures of other electric appliance or damage items or wires.

## Virtual wall (optional)

The magnetic strip can be set to separate restricted zones (such as washing rooms and kitchens).



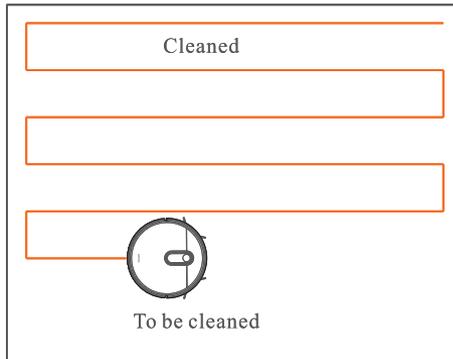
Note: Fix the magnetic strip to the ground to avoid peeling off, otherwise affecting the result of the visual wall.

# Use Instructions

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## Automatic sweeping

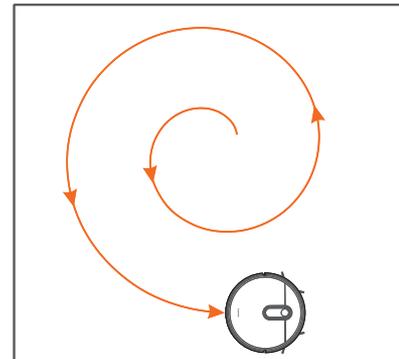
Upon power on, the machine plans its sweeping route in a zigzag way and finishes sweeping the whole room in an orderly and efficient manner. Once sweeping ends, the machine will automatically return to the dock for charging (sweeping mode by default).



## Specified sweeping

Use the  button on the controller so that the machine will take itself as a center to sweep a round zone with the diameter of 1.2 m. Upon sweeping, the main unit will automatically return to the starting point and stop work.

(The direction key on the smart APP can also be used to manually control the machine to the sweeping position.)

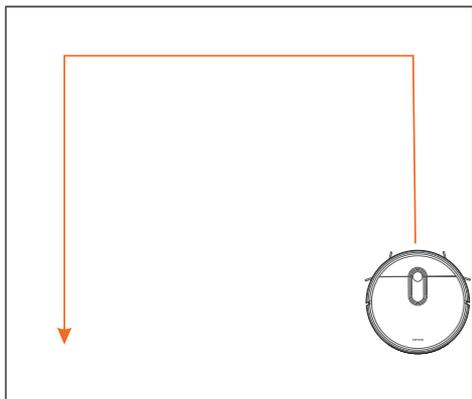


# Use Instructions

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## Side sweeping

For indoor sweeping, the machine normally sweeps along a fixed object (such as walls). Once sweeping finishes along all sides, it returns to the charging dock. Press the button of  on the controller or use the smart APP to quickly enable the side sweeping function.

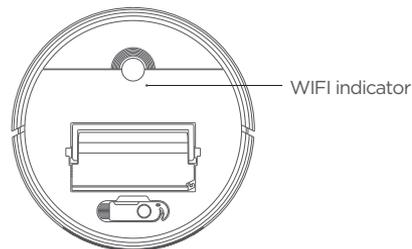


## Scheduled sweeping

Use the smart APP to set the time for sweeping. The main unit will start sweeping automatically at the scheduled time. Upon sweeping, it will return to the dock for charging (7X24h scheduling supported).

## Wi-Fi connection

Press the  and  buttons at the same time for 3 seconds. The voice of "Wifi reset , ready for EZ mode connection" prompts. The Wi-Fi indicator blinks showing it is connecting. The indicator will be kept on after connection.



## DND mode

No voice prompt in DND mode. Use the smart APP to enable or disable the DND mode.

## Suction control

Use the smart APP to select the strong, normal and quiet modes (normal by default).

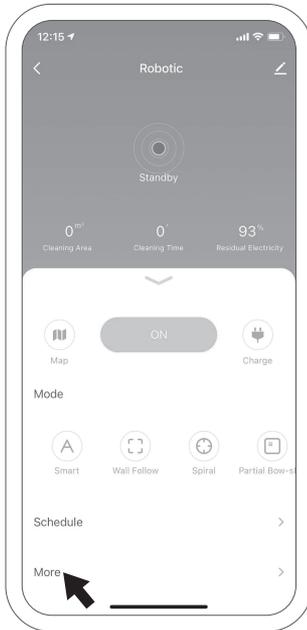
## Water volume control

Use the smart APP to select the high, medium and low modes (medium by default).

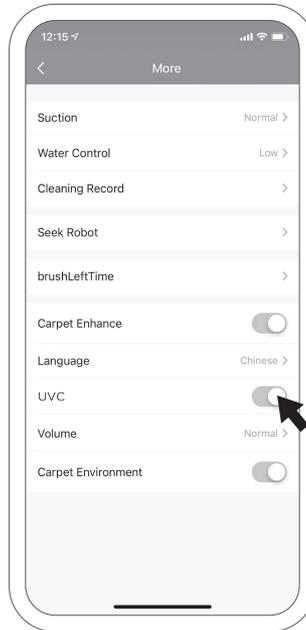
# Use Instructions

## Ultra-Violet Sanitizing (E2 Pro)

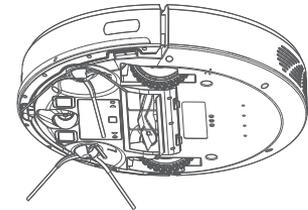
Ultraviolet sanitizing instructions:



1. Open the "LenovoSmart" APP and enter the main interface of the connected "LenovoCleaner E2 Pro" robot. Click the "More" button.



2. Find the UVC switch to control the sterilization function of the robot.



3. Click the switch to open UV disinfection function.

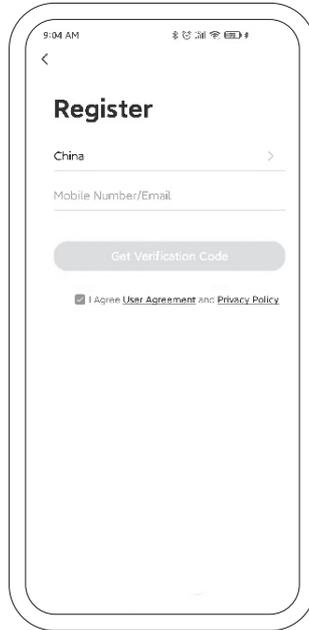
# APP Connection

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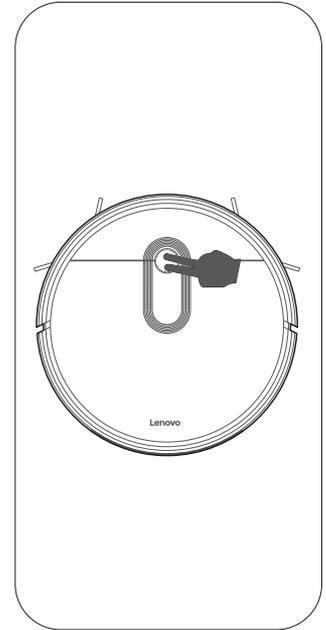
## APP Connection



1.Download the app from Google Play or Apple App store. You can access the App by scanning the QR codes above.Or search "LenovoSmart" from app store.



2. Register and log in the APP.



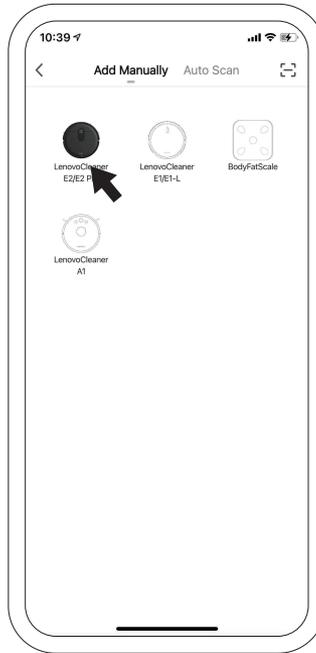
3.Press the  and  buttons at the same time for 3 seconds. The voice of "Wifi reset , ready for EZ mode connection" prompts and the Wi-Fi indicator blinks.

# APP Connection

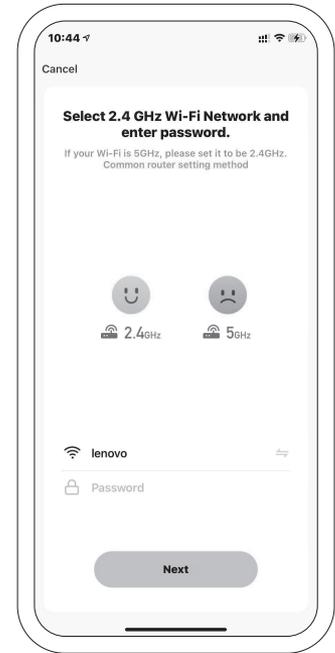
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4. Click "Add Device" or "+" at the upper right corner.



5. Select "LenovoCleaner E2/  
E2 Pro"



6. Confirm the indicator blinks.

# APP Connection

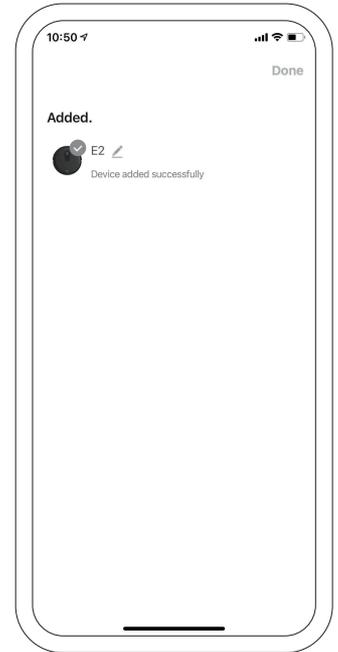
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7. Connect Wi-Fi, input the password, and then click OK.



8. Wait for connection between the mobile and the robot

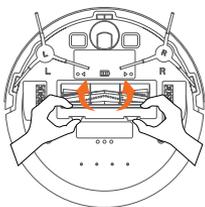


9. Upon connection, set the name of the robot.

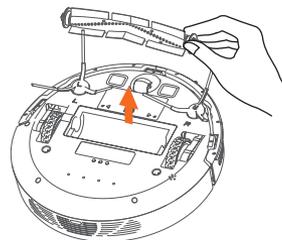
# Installation

## Roller brush (Recommended cleaning frequency: weekly)

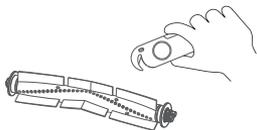
1. Flip the machine, press the buckle on the roller brush cover, and remove the roller brush cover.



2. remove the roller brush .

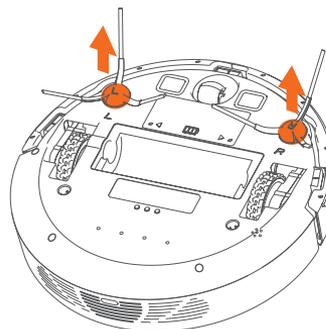


3. Use the cleaning brush that comes with the machine to remove the dust in the main brush and the roller brush cavity, and then clean the objects entangled on the roller brush.



## Side brush (Recommended cleaning frequency: weekly)

1. Flip the machine, and pull out the side brushes vertically.
2. Remove the entangled hair and dirt, and then reinstall the side brushes.
3. Align the left side brush (L) and right side brush (R) with the letters L and R on the bottom cover, and press the side brushes to reinstall them.



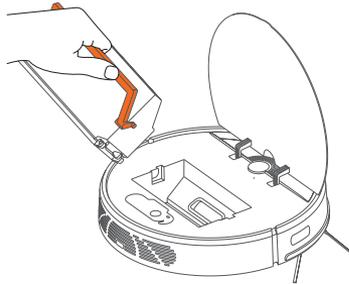
Note: It is recommended that you replace the side brushes every 3 months to ensure the cleaning effect.

# Routine Maintenance

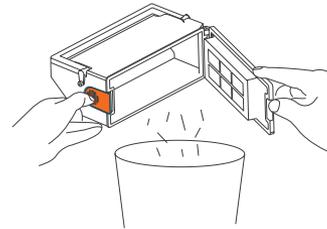
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**Dust box and filter** (Recommended cleaning frequency: after each cleaning)

1. Remove the machine cover, lift the handle of the dust box, and take out the dust box.

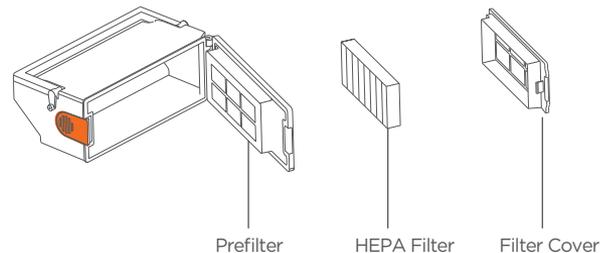


2. Press the switch of the dust box, open the dust box, and dump.



**Clean the dust box** (Recommended cleaning frequency: weekly)

1. After the machine is used for a long time, remove the filter gauze and HEPA filter.
2. Put the removed prefilter and dust box under the faucet for washing (the HEPA filter cannot be washed by water).
3. Remove the water droplets, and dry the filter and dust box thoroughly before use.



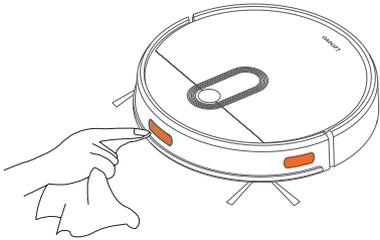
Note:

- Use clean water for washing, and do not add any detergent.
- Do not use a brush or fingers to clean the filter.
- Dry the filters thoroughly for at least 24 hours.
- It is recommended that you replace a set of filters every 3 months.

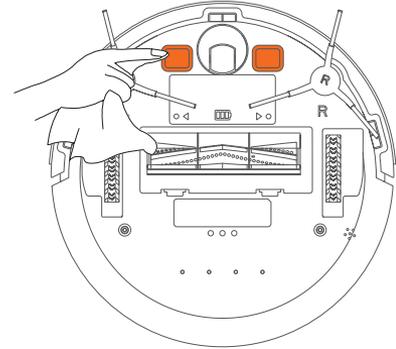
# Routine Maintenance

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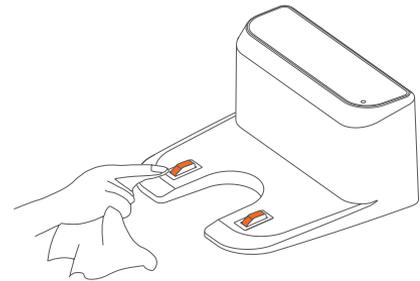
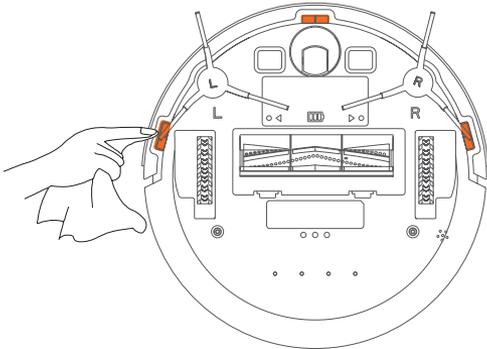
Clean the infrared anti-collision sensor  
(Recommended cleaning frequency: monthly)



Clean the charging contact  
(Recommended cleaning frequency: monthly)



Clean the cliff sensor  
(Recommended cleaning frequency: monthly)

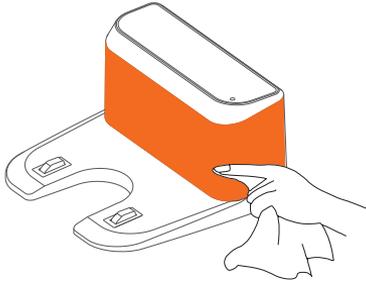


# Routine Maintenance

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## Clean the signal transmission zone

(Recommended cleaning frequency: monthly)



## Battery

The machine is equipped with a high-performance rechargeable lithium battery pack. To maintain battery performance, keep the machine in charging state in daily use.

If you do not use the machine for a long time, power it off and store it properly. Charge the machine at least once every 3 months to avoid damage to the battery due to excessive discharge.

## Upgrade the firmware

Start the mobile app, and enter the firmware upgrade page. After the new firmware is detected, follow the instructions to upgrade the firmware. To upgrade the firmware, the power must be equal to or greater than 50%. It is recommended that you place the machine on the docking station for upgrade.

# Parameters

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## Main unit

	Specification
Product Model	L-VCL0E2
Dimensions	320X320X76mm
Battery	2600 mAh rechargeable lithium battery
Rated voltage	14.4V $\equiv$
Rated power	42W
Charging time	300min
Dust box capacity	450ml
Water tank capacity	520ml

## Docking station

	Specification
Dimensions	158X147X84mm
Rated input	19V $\equiv$ 0.6A
Rated output	19V $\equiv$ 0.6A

## Common Problems

Problem	Solution
Failed to power on the machine	<ul style="list-style-type: none"> <li>·The battery power is insufficient. Please place the machine on the docking station, and align with the charging electrode. The machine will be automatically powered on.</li> <li>·The ambient temperature is below 0°C or above 40°C. Please use the machine when the ambient temperature is 0°C to 40°C.</li> </ul>
Failed to charge the machine	<ul style="list-style-type: none"> <li>·Move the machine away from the docking station, and check whether the indicator of the docking station is on. Make sure that both ends of the power adapter are properly connected.</li> <li>·The docking station is not in proper contact with the machine. Please clean the docking station shrapnel and the charging contact on the machine, or push the side brush to one side.</li> </ul>
Failed to return to the docking station	The machine is too far away from the docking station. Try to place the machine near the docking station.
Abnormal behavior	Power off the machine and then on again.
There is abnormal noise during cleaning.	The roller brush, side brushes, or wheels may be entangled with foreign objects. Please clean them after stopping the machine
The cleaning performance is degraded, or ash is dropped.	<ul style="list-style-type: none"> <li>·The dust boblocked. Clean or replace the filter.</li> <li>·The roller x is full. Clean the dust box.</li> <li>·The filter is brush is entangled with foreign objects. Clean the roller brush.</li> </ul>
The Wi-Fi network cannot be connected.	<ul style="list-style-type: none"> <li>·The Wi-Fi signal is not good. Ensure that the machine is located in a place with good Wi-Fi signals.</li> <li>·The Wi-Fi connection is abnormal. Reset the Wi-Fi settings, download the app of the latest version, and try to connect to the Wi-Fi network again.</li> <li>·The password is incorrect.</li> <li>·This machine supports only the 2.4 GHz band.</li> </ul>
Scheduled cleaning cannot be carried out.	The power is insufficient. Scheduled cleaning will be started only when the remaining power is 15% or above.
Is any power consumed if the machine always stays at the docking station?	The power consumption is extremely low when the machine always stays at the docking station. This helps to keep the battery in the best performance.
Is it necessary to charge the battery for 16 hours when the machine is used for the first three times?	The lithium battery does not have a memory effect. It can be used instantly after it is fully charged. There is no need to wait.

# Troubleshooting

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Error Prompt	Solution
Error 1: Insert dustbin	Cleaning is triggered when the dust box is taken out. Please reinstall the dust box.
Error 2: Put the vacuum on the floor before starting	You may pick up the machine, or the machine is suspended in the air. Please move the machine to a level ground and start again.
Error 3: Move the vacuum to a safe area before starting	The cliff sensor is blocked or placed in a high place. Please wipe the cliff sensor window with a soft cloth, and move the machine to a level ground before starting.
Error 4: Put the machine flat on the ground before starting	The machine is tilted. Please move the machine to a level ground before starting.
Error 5: Front bumper is stuck	The edge or anti-collision sensor is stuck. Please push the bumper left and right to confirm that it is not stuck.
Error 6: Battery is low, please recharge	Put the machine on the docking station for charging.
Error 7: The vacuum is stuck	Please move the machine to an open ground before starting.
Error 8: Wheels are Stuck	The wheels may be stuck or entangled with foreign objects. Please check the wheels and remove the foreign objects.
Error 9: Main Brush is Stuck	The roller brush may be stuck or entangled with foreign objects. Please check the roller brush and remove the foreign objects.
Error 10: Side brush is stuck	The side brush may be stuck or entangled with foreign objects. Please check the side brush and remove the foreign objects.

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