



	平面印刷品基本技术要求			
科沃斯机器人股份有限公司				
物料名称	哥白尼 - 美 - 高配水箱黑金 - 说明书 -MP	尺寸	145*210mm	
型 号	ZJ2441	印刷颜色	单色 K	
物料编码	451-2441-0801	装订方式	胶装	
版次	A	阶 段	А	
材质	封面 157 哑粉纸 + 内页 80g 双胶纸	页 数	**p	
变更记录:				
		设计	审核	批准
		PLD		
		2024.12.10		
		张莹莹		



DEEBOT 150 MAX Family

Instruction Manual

Instruction ManualEN	I	P03
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IMPORTANT SAFETY INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS READ ALL INSTRUCTIONS BEFORE USING THIS APPLIANCE.

When using an electrical appliance, basic precautions should always be followed, including the following: **WARNING:** Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire, or serious injury.

- 1. Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- 2. Clear the area to be cleaned. Remove power cords and small objects from the floor that could entangle the Appliance. Tuck rug fringe under the rug base, and lift items such as curtains and tablecloths off the floor.
- 3. If there is a drop off in the cleaning area due to a step or stairs, you should operate the Appliance to ensure that it can detect the step without falling over the edge. It may become necessary to place a physical barrier at the edge to keep the unit from falling. Make sure the physical barrier is not a trip hazard.
- 4. Only use as described in this manual. Only

- use attachments recommended or sold by the manufacturer
- 5. Do not handle plug or appliance with wet hands.
- 6. Non-rechargeable batteries are prohibited.
- 7. Do not use without dust bin and/or filters in place.
- 8. Do not operate the vacuum in an area where there are lit candles or fragile objects on the floor to be cleaned.
- Do not use and store in extremely hot or cold environments (below -5°C /23°F or above 40°C/104°F). Please charge the robot in temperature above 0°C/32°F and below 40°C/104°F.
- 10. Keep hair, loose clothing, fingers, and all parts of body away from any openings and moving parts.
- 11. Do not operate the Appliance in a room where an infant or child is sleeping.
- 12. For INDOOR use ONLY. Do not use the Appliance in outdoor, commercial or industrial environments. Do not use Appliance on wet surfaces or surfaces with standing water.
- 13. Do not allow the Appliance to pick up large objects like stones, large pieces of paper, or any item that may clog the Appliance.
- 14. Do not use to pick up flammable or combustible

- materials such as gasoline, printer, or copier toner, or use in areas where they may be present.
- 15. Do not pick up anything that is burning or smoking, such as cigarettes, matches, hot ashes, or anything that could cause a fire.
- 16. Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
- 17. Take care not to damage the power cord. Do not pull on or carry the Appliance or Docking Station by the power cord, use the power cord as a handle, close a door on the power cord, or pull power cord around sharp edges or corners. Do not run Appliance and Docking station over the power cord. Keep power cord away from hot surfaces. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- 18. If the power cord is damaged, it must be replaced by the manufacturer or its service agent in order to avoid a hazard.
- 19. Do not use with a damaged power cord or plug. Do not use the Appliance or Docking Station if it is not working properly, has been dropped, damaged, left outdoors, or come in contact with water. It must be repaired by the manufacturer or its service agent in order to avoid a hazard.

- 20. Turn OFF the power switch before cleaning or maintaining the Appliance. Turn off all controls before unplugging. Always turn off this appliance before connecting or disconnecting motorized nozzle.
- 21. Turn OFF the Power Switch before removing the Dust Bin.
- 22. Remove the Appliance from the Docking Station, and turn OFF the power switch to the Appliance before removing the battery for disposal of the Appliance.
- 23. The battery must be removed and discarded according to local laws and regulations before disposal of the Appliance.
- 24. Please dispose of used batteries according to local laws and regulations.
- 25. Do not incinerate the Appliance even if it is severely damaged. The batteries can explode in a fire.
- 26. When not using the Docking Station, unplug from outlet when not in use and before servicing.
- 27. The Appliance must be used in accordance with the directions in this Instruction Manual. Ecovacs Home Service Robotics cannot be held liable or responsible for any damages or injuries caused by improper use.

- 28. Prevent unintentional starting. Ensure the switch is in the off position before connecting to battery pack, picking up or carrying the appliance.
- 29. When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws, or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- 30. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- 31. Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.
- 32. Do not expose a battery pack or appliance to fire or excessive temperature. Exposure to fire or temperature above 130°C may cause explosion. The temperature of 130°C can be replaced by the temperature of 265°F.
- 33. Follow all charging instructions and do not charge the battery pack or appliance outside of the

- temperature range specified in the instructions. Charging improperly or at temperatures outside of the specified range may damage the battery and increase the risk of fire.
- 34. Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
- 35. Do not modify or attempt to repair the appliance or the battery pack (as applicable) except as indicated in the instructions for use and care.
- 36. Place the cords from other appliances out of the area to be cleaned.
- 37. Do not operate the vacuum in a room that has lit candles on furniture that the vacuum may accidentally hit or bump into.
- 38. Do not allow children to sit on the vacuum.
- 39. Use only as described in this manual. Use only manufacturer's recommended attachments.
- 40. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- 41. Use appliances only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.

- 42. The robot contains batteries that are only replaceable by skilled persons. To replace the robot's battery, please contact Customer Service.
- 43. If the robot will not be used for a long time, fully charge the robot and power OFF for storage and unplug the Docking Station.
- 44. To Reduce The Risk Of Electric Shock Do not use on wet surfaces. Do not expose to rain. Store indoors.
- 45. To Reduce The Risk Of Injury From Moving Parts Unplug Before Servicing.
- 46. Risk Of Injury. Brush May Start Unexpectedly. Unplug Before Cleaning or Servicing.
- 47. To reduce the risk of injury, user must read the Instruction Manual.
- 48. To Reduce The Risk Of Electric Shock Do not use outdoors or on wet surfaces.
- 49. Please make sure your power supply voltage matches the power voltage marked on the Docking Station.
- 50. Do not use the Docking Station if it is damaged.
- 51. The plug must be removed from the receptacle before cleaning or maintaining the Docking Station.
- 52. Power Switch: "I"=ON, "O"=OFF.
- 53. Connect to a properly grounded outlet only. See Grounding Instructions.

	Direct current
~	Alternating current

This Device Complies with DHHS Radiation Rules, 21CFR Chapter 1, Subchapter J.

Federal Communications Commission (FCC) Interference Statement

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.

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.

Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

RF exposure warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

MPE caution (for mobile device under Part 15.247device)

To satisfy FCC & IC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended.

To disable the Wi-Fi module on DEEBOT, follow these steps: power on the robot, then place it on the OMNI Station, ensuring that the Charging Contacts on DEEBOT and the Station are properly connected, and press and hold the for 30 s until you hear beeps.



To enable the Wi-Fi module on DEEBOT, please restart the robot. Additionally, unplug and plug in the Station.

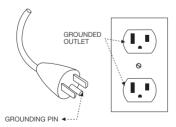
SAVE THESE INSTRUCTIONS

GROUNDING INSTRUCTIONS

This appliance must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING – Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This appliance is for use on a nominal 120 V circuit and has a grounding attachment plug that looks like the plug illustrated as the following photo. Make sure that the appliance is connected to an outlet having the same configuration as the plug. No adaptor should be used with this appliance.



For INDOOR household use ONLY.

This device contains licence-exempt transmitter(s)/ receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

To satisfy FCC&IC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended.

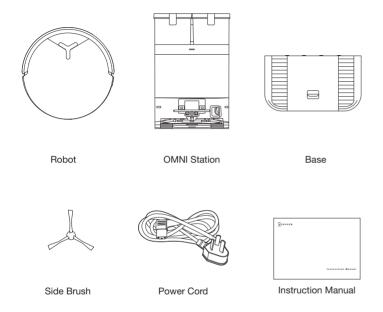
Device Update

Typically, some devices are updated bi-monthly, but not always so specific.

Some devices, especially those that went on sale more than three years ago, will only be updated if a critical vulnerability is found and fixed.

Package Components

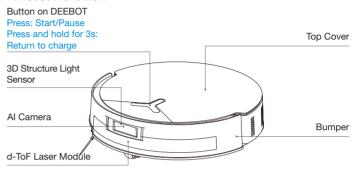
1 PACKAGE CONTENTS



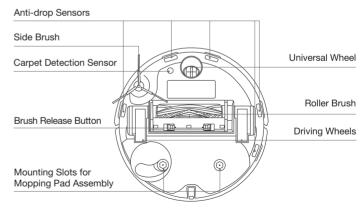
Note: Figures and illustrations are for reference only and may differ from actual product appearance. Product design and specifications are subject to changes without notice.

2 PRODUCT DIAGRAM

1. Robot Front View



2. Bottom Back View



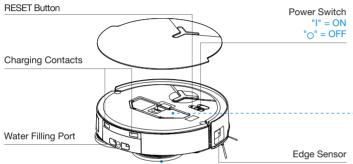
3. Inside the Robot

RESET Button

Network Setup: Press the RESET Button and follow the voice prompt to set up the network.

Restore to default settings: Press and hold the RESET button for 5 seconds, and you will hear a prompt sound. After that, the startup music will play, and the robot will be restored to default settings.

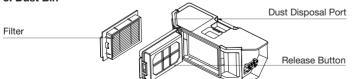
Wi-Fi Status Indicator/



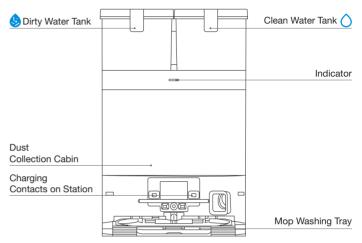
4. Mopping Pad Assembly



5. Dust Bin



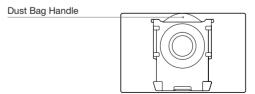
6. Station Front View



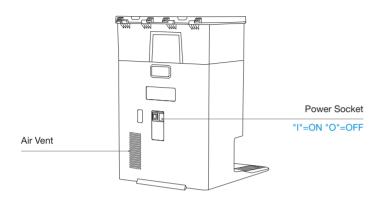
Note:

- If the Indicator flashes red, go to the ECOVACS HOME App for details about the malfunction
- If the robot cannot charge, wipe the corresponding charging contacts on the OMNI station with a dry cloth.

7. Dust Bag



8. Station Back View



9. Indicator Light

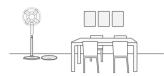
Indicator	Light Effect	State	
	Breathing White	Charging	
	Solid White	Fully Charged/Running	
Robot	Solid Red	Low Battery	
	Flashing Red	Alarm	
	Solid Yellow	Voice Assistant Mute	
	Solid White	Standby/Running	
Station	Flashing Red	Malfunction	
	Goes Out	Power Outage/ Deep Sleep Mode	

10. Sensors Overview

Name Functional Description	Functional Description
d-ToF Laser Module	Laser Ranging is applied to measure the distance between the robot and surrounding objects based on the time difference of reflection, allowing the module to map against the objects around while the robot is moving. The detection range is 10 m.
3D Structure Light Sensor	Infrared ranging and similar triangles are applied to measure the distance between the surrounding objects and the robot. When the sensor detects an object nearby, the robot will automatically take a turn to avoid bumping into the object. The detection range is 0.4 m.
Anti-drop Sensors	Infrared ranging is applied by the sensor at the bottom of the robot to measure the height between the bottom of the robot and the ground. When there is a height difference, for example, a height above 55 mm on white-colored ground or a height above 30 mm on black-colored ground, the robot will stop advancing, fulfilling the feature of Anti-drop.
Carpet Detection Sensor	The ultrasound probe can emit ultrasonic waves with a frequency of 300KHZ. The energy of the ultrasonic waves can be absorbed by carpets. If the reflected energy is below the threshold, the robot will recognize the presence of a carpet. According to ECOVACS lab tests, currently, over 50 types of carpets available on the market can be identified.
Anti-collision Sensor	When the transmitted signal is blocked by an object, the signal receiver will not be able to receive it. With this principle, the robot will avoid obstacles when encountering them.
Edge Sensor	With Infrared Ranging, the robot can detect the distance between itself and objects on its right side. When there is a wall or an obstacle on the right side, the robot will do edge cleaning to avoid missed spots or collisions. (for model DDX 45) With ToF distance measurement, the robot can detect the distance between itself and objects on its right side. When there is a wall or obstacle on the right side, the robot will perform edge cleaning to avoid missing spots or collisions. (for model DEX 54)
Al Camera	Use Al Camera to collect images of the surroundings for video recording, allowing distant video call via the microphone. FOV: Vertical Span of 77°, Horizontal Span of 97°
Microphone	Human voices cause vibrations in the diaphragm of the microphone through air. As a result, the microphone utilizes the collection and algorithms of sound models to achieve sound recording and voice control of the robot to complete specific tasks. The effective wake-up distance is 5 m.

NOTES BEFORE CLEANING

1 Before Cleaning



Prepare the Area

Tidy up the area by arranging furniture like chairs and storing low-lying items to maximize cleaning space.



Tidy up the area by arranging furniture like chairs and storing low-lying items to maximize cleaning space.



Set up Protective Barriers

If working near stairs or edges, place a barrier to prevent falls.



For rugs with tassels, tuck them under the rug.



Keep Doors Open to Rooms to be Cleaned

During the first use, keep all doors open to help the robot explore and map the area.



Avoid blocking narrow spaces like doorways to ensure the robot can detect all areas.



Provide Sufficient Lighting

Ensure areas are well-lit to optimize the robot's obstacle avoidance.



Keep the camera lens clean with a soft cloth, avoiding cleaning agents.

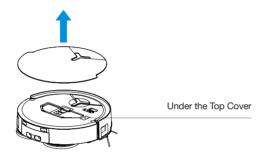
Quick Start

Before using, please remove all protective materials from the robot and OMNI station.

1. Download ECOVACS HOME App

Download ECOVACS HOME App to enjoy more features.

You may scan the QR Code on the robot to download the App.



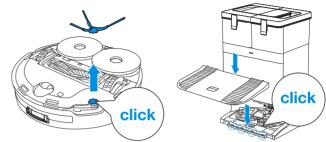
Or search for the ECOVACS HOME in your mobile app store to download the App.



Note: Follow the guide of the App to register, log in, and connect the product with the App.

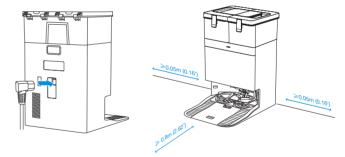
2. Install Robot and Station

The sound of Click indicates proper installation.



3. Place Station and Connect Power Cord

Place the station against a wall on a level, hard ground. Ensure there are no objects within 0.05 m on either side or 0.8 m in front of it.

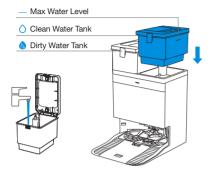


Motor

- If there are reflective objects, such as mirrors, or reflective skirting lines near the station, cover them from the ground up to a height of 14 cm.
- Do not place the Station under direct sunlight.
- Place the Station in a location with a strong Wi-Fi signal.

3 Fill Clean Water Tank

Take out the clean water tank and fill it up to the max water level. After filling the tank, lock its cover and put it back to the station.

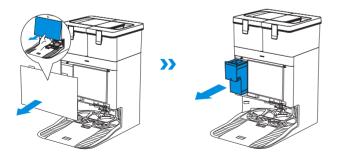


Note:

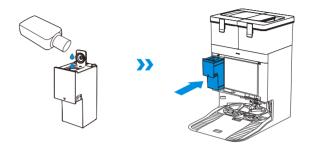
- Use a clean, dry cloth to wipe off any water on the surface of the tank before placing it in position.
- Make sure to lock the top covers of both water tanks securely before use.
- Any water marks in the water tanks are from function testing. Please use it with confidence.

4 Add Cleaning Solution (sold separately)

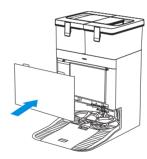
 Take off the dust collection cabin cover, pull out the cleaning solution unit, and place it on a level, hard surface.



2. Unlid the cleaning solution unit and fill it with ECOVACS cleaning solution (sold separately). Put the lid on and the unit back to the station.



Place the fit joints at the upper edge of the dust cabin cover and press the lower part of it to install it properly.

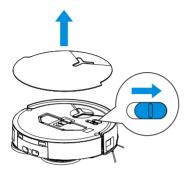


Noto

- Cleaning Solution is pumped automatically from the cleaning solution unit. Do not add Cleaning Solution to the water tanks.
- For better performance and longer lifespan of the product, please use ECOVACS DEEBOT Cleaning Solution (sold separately).
- Please make sure that no foreign objects fall into the cleaning solution unit.

6 Power on Robot

Turn on the power switch under the robot cover ("I" = ON, "\" = OFF), and place the robot in front of the Station that is connected to power supply.



6 Connect Robot to App

Network Interface Information

Name	Description		
Bluetooth	Enable Bluetooth to connect the robot to the network during the network setup process.		
WI-FI*	Facilitate data transfer between the app and the robot, enabling control of the robot through the app.		
ECOVACS HOME App	ECOVACS products offer smart functions such as network setup, mapping, and cleaning mode selection (specific to each product). To utilize these features, users need to download and use the official ECOVACS Home App.		

*Note: The Deebot series robotic vacuums are designed for domestic cleaning scenarios. A home Wi-Fi network is required for operation, and anti-DDOS protection can be configured by users through route settings.

Wi-Fi Network Requirements:

- You are using a 2.4GHz or 2.4/5 GHz mixed network.
- Your router supports 802.11b/g/n and IPv4 protocol.
- Do not use a VPN (Virtual Private Network) or Proxy Server.
- Do not use a hidden network.
- WPA and WPA2 using TKIP, PSK, AES/CCMP encryption.
- WEP EAP (Enterprise Authentication Protocol) is not supported.
- Use Wi-Fi channels 1-11 in North America and channels 1-13 outside North America (refer to local regulatory agency).
- If you are using a network extender/repeater, the network name (SSID) and password are the same as that of your primary network.
- Please enable the WPA2 on your router.

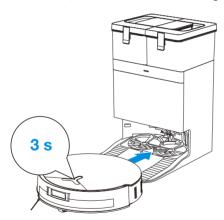
Wi-Fi Indicator Light

_	Slow Flashing White	Disconnected from Wi-Fi	
	Quick Flashing White	Connecting	
•	Solid White	Connected to Wi-Fi	

Please note that to access smart features such as remote startup, voice interaction, 2D/3D map display and control settings, and personalized cleaning (features may vary depending on the product), you'll need to download and use the ECOVACS HOME App, which receives constant updates. You must agree to our Privacy Policy and User Agreement before we can process some of your basic and necessary information and enable you to operate the product via the ECOVACS HOME App. Without your agreement, some of the aforementioned smart features cannot be accessed through the ECOVACS HOME App. Nevertheless, you can still use the product's basic functions for manual operation.

7 Charge Robot

Use the ECOVACS HOME App or voice control to recall the robot, or press and hold $\binom{1}{1}$ the robot for 3 seconds, to allow the robot to dock for charging.



Note:

- The robot cannot be charged when the power is turned off.
- When the robot is not working, it is recommended to keep it powered ON and charging.
- It is recommended that the robot start cleaning from the Station. Do not move the Station while cleaning.

8 Operate Robot

1. Start Mapping

When creating a map for the first time, please follow the robot to help resolve some minor issues.

For instance, if the robot gets stuck in a narrow space under furniture, you may refer to the following solutions:

- (1) Raise the furniture to create a passage for the robot if feasible.
- 2 Cover the bottom of the furniture to prevent the robot from trying to enter.
- 3 Set up Virtual Boundary in the App to prevent the robot from entering.

2. Start Cleaning

- The robot's water tank is automatically refilled through the Station. Manual refilling is not needed.
- When mopping, the robot will recognize floor types and is able to lift mops
 automatically when encountering carpets. Please do not use the robot on shaggy
 rugs or carpets with fibres longer than 10 mm. It is recommended to fold up the
 shaggy rugs with fibres longer than 10 mm during the cleaning process, or set
 the shaggy carpeted area as a no-entry zone by setting virtual boundary in the
 ECOVACS HOME App.

Before cleaning for the first time, please make sure the robot is in the Station and fully charged. Tap (1) on the robot to start. You can also use the ECOVACS HOME App or Voice Control to start.



Note:

- Do not frequently remove washable mopping pads.
- Do not use a rag or any other object to scratch the Moping Pad Plates.
- When the ECOVACS HOME App prompts that the mops need to be replaced, please replace them in time. Explore more accessories on ECOVACS HOME App or at https://www.ecovacs.com.

3. Pause

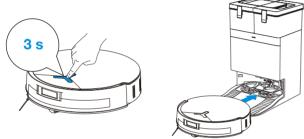
Tap () on the robot to pause it while it is working. You can also use the ECOVACS HOME App or Voice Control to pause the robot.

4. Wake up

After pausing for a while, all indicator lights on the robot will go out. To wake up the robot, press $\binom{1}{2}$.

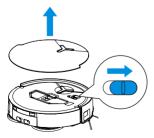
5. Return to Station

Use the ECOVACS HOME App or Voice Control to recall the robot, or press and hold the $\binom{1}{2}$ button on the robot for 3 seconds, to allow the robot to dock for charging.



6. Deep Sleep Mode

The robot will enter deep sleep mode to protect the battery if it stays outside the Station for about 10 h. Please switch OFF and ON to wake up the robot.



Regular Maintenance

1 Maintenance Frequency

To ensure optimal performance, maintain and replace parts at the following frequencies:

Part	Maintenance Frequency	Replacement Frequency
Washable Mops	/	Every 1-2 months
Dust Bag	/	When App prompts
Side Brush	Every 2 weeks	Every 3-6 months
Roller Brush	Every week	Every 6-12 months
Filter	Every week	Every 3-6 months
3D structure light sensor Universal Wheel Anti-drop Sensors Bumper Charging Contacts on the robot Charging Contacts on the Station d-ToF Laser Module Al Camera	Approx. every month	/
Clean Water Tank	Every 3 months	/
Dirty Water Tank	Every month	/
Dust Collection Cabin	Every month	/
Body and Bottom of the Station	Every month	/
Cleaning Solution Unit	Every month	/

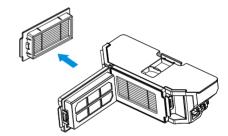
Note: Explore more accessories at ECOVACS HOME App or at https://www.ecovacs.com.

2 Dust Bin Maintenance

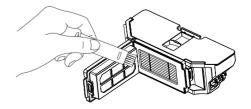
1. Open the cover and empty the bin.



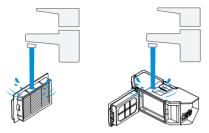
2. Take out the filter.



3. Clean the dust bin.

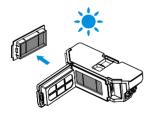


4. You may wash the dust bin and the filter with running water. Shake off the remaining water from the parts.



Note:

- Please rinse the filter with water.
- Do not use fingers or brushes to clean the filter.
- 5. Dry by airing.



Note: Make sure to dry the filter completely before use.

8 Roller and Side Brush Maintenance

Clean the Roller Brush

1. Remove the cover on the roller brush.



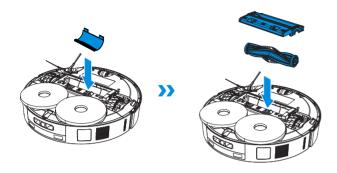
2. Remove and clean the roller brush.



3. Remove, clean and dry the brush comb.

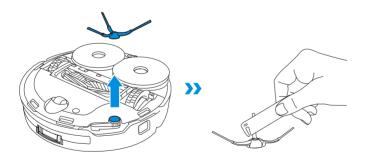


4. Install the brush comb, the roller brush and the roller brush cover.



Clean the Side Brush

Remove and clean the side brush.



Note: Explore more accessories at ECOVACS HOME App or at https://www.ecovacs.com

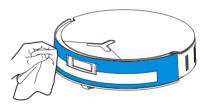
4 Maintain Other Components

Note: Do not use wet cloth when cleaning the following parts to prevent water damage.

1. Clean the Sensor Lens



2. Clean the Bumper



3. Clean the d-ToF Laser Module

