



DEEBOT  AIVI  
Instruction Manual

## Important Safety Instructions

### IMPORTANT SAFETY INSTRUCTIONS

When using an electrical Appliance, basic precautions should always be followed, including the following:

### READ ALL INSTRUCTIONS BEFORE USING THIS APPLIANCE

### SAVE THESE INSTRUCTIONS

1. This Appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the Appliance in a safe way and understand the hazards involved. Children shall not play with the Appliance. Cleaning and user maintenance shall not be made by children without supervision.
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. Please make sure your power supply source voltage matches the power voltage marked on the Docking Station.
6. For INDOOR household use ONLY. Do not use the Appliance in outdoor, commercial or industrial environments.
7. Use only the original rechargeable battery and Docking Station provided with the Appliance from the manufacturer. Non-rechargeable batteries are prohibited.
8. Do not use without dust bin and/or filters in place.
9. Do not operate the Appliance in an area where there are lit candles or fragile objects.
10. Do not use in extremely hot or cold environments (below  $-5^{\circ}\text{C}/23^{\circ}\text{F}$  or above  $40^{\circ}\text{C}/104^{\circ}\text{F}$ ).
11. Keep hair, loose clothing, fingers, and all

parts of body away from any openings and moving parts.

12. Do not operate the Appliance in a room where an infant or child is sleeping.
13. Do not use Appliance on wet surfaces or surfaces with standing water.
14. Do not allow the Appliance to pick up large objects like stones, large pieces of paper or any item that may clog the Appliance.
15. Do not use Appliance to pick up flammable or combustible materials such as gasoline, printer or copier toner, or use in areas where they may be present.
16. Do not use Appliance to pick up anything that is burning or smoking, such as cigarettes, matches, hot ashes, or anything that could cause a fire.
17. Do not put objects into the suction intake. Do not use if the suction intake is blocked. Keep the intake clear of dust, lint, hair, or anything that may reduce air flow.
18. 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 over the power cord. Keep power cord away from hot surfaces.
19. If the power cord is damaged, it must be replaced by the manufacturer or its service agent in order to avoid a hazard.
20. Do not use the Docking Station if it is damaged. The power supply is not to be repaired and not to be used any longer if it is damaged or defective.
21. Do not use with a damaged power cord or receptacle. 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.
22. Turn OFF the power switch before cleaning or maintaining the Appliance.
23. The plug must be removed from the receptacle before cleaning or maintaining the Docking Station.
24. 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.

25. The battery must be removed and discarded according to local laws and regulations before disposal of the Appliance.
26. Please dispose of used batteries according to local laws and regulations.
27. Do not incinerate the Appliance even if it is severely damaged. The batteries can explode in a fire.
28. When not using the Docking Station for a long period of time, please unplug it.
29. The Appliance must be used in accordance with the directions in this Instruction Manual. ECOVACS ROBOTICS cannot be held liable or responsible for any damages or injuries caused by improper use.
30. The robot contains batteries that are only replaceable by skilled persons. To replace the robot's battery, please contact Customer Service.
31. If the robot will not be used for a long time, power OFF the robot for storage and unplug the Docking Station.
32. **WARNING:** For the purposes of recharging the battery, only use the detachable supply unit CH1822 provided with the Appliance, or CH1918 sold separately as an accessory.

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

To ensure compliance, operations at closer than this distance is not recommended. The antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter.

To disable Wi-Fi module on DEEBOT, power the robot ON.

Place the robot on the Docking Station making sure the Charging Contacts on DEEBOT and the Docking Station Pins make a connection.

Press and hold the AUTO Mode Button on the robot for 20 seconds until DEEBOT emits 3 beeps.

To enable Wi-Fi module on DEEBOT, power the robot OFF and then power ON. The Wi-Fi module is turned on when DEEBOT is restarted.

	Class II
	Short-circuit-proof safety isolating transformer
	Switch mode power supply
	For indoor use only
	Direct current
	Alternating current

## For EU Countries

For EU Declaration of Conformity information, visit <https://www.ecovacs.com/global/compliance>.

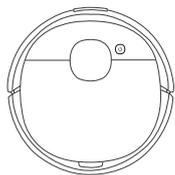


## Correct Disposal of this Product

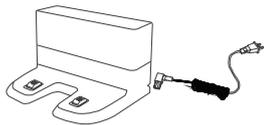
This marking indicates that this product should not be disposed of with other household waste throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To recycle your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can safely recycle this product.

The remote surveillance is for the absolute private use of non-public, private owned places for the pure self-protection and single control intended only. Please be aware of the local data protection based legal obligations in case of use. No surveillance of public places, especially with clandestine intent and/or on the part of the employer without justified reasons. Such not justified use is in the risk and responsibility of the user only.

## Package Contents



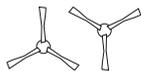
Robot



Docking Station + Power Cord



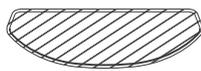
Instruction Manual



Side Brushes



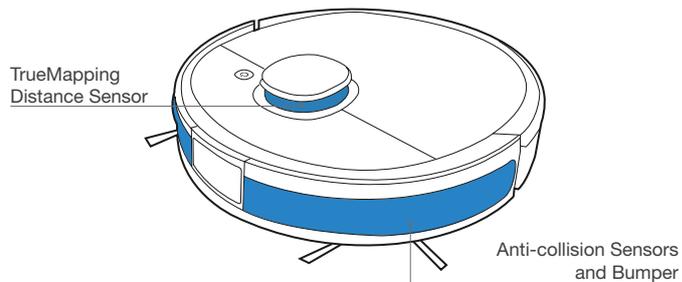
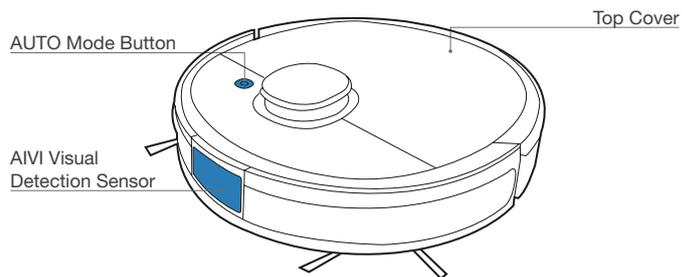
OZMO Pro  
Oscillating System



Washable Mopping Pads

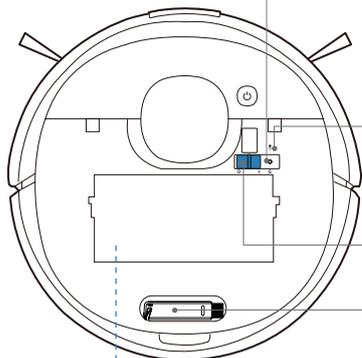
## Product Diagram

### Robot



**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.

RESET Button



Wi-Fi Status Indicator

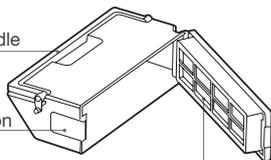
Power Switch

Multi-function Cleaning Tool

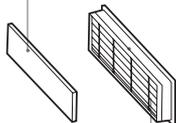
Dust Bin Handle

Release Button

Filter Net



Sponge Filter



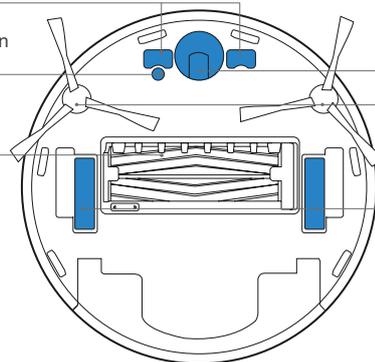
High Efficiency Filter

## Bottom View

Charging Contacts

Carpet Detection Sensor

Main Brush



Universal Wheel

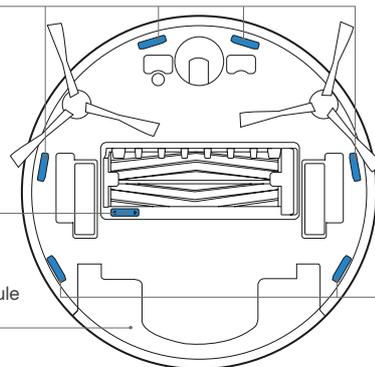
Side Brushes

Driving Wheels

Anti-drop Sensors

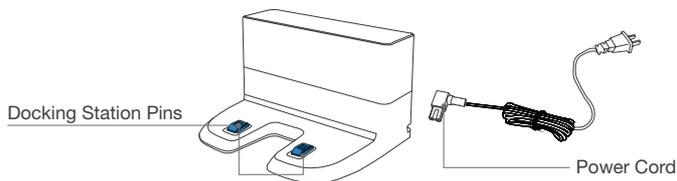
Main Brush Release Button

Substitute Module (Pre-installed)

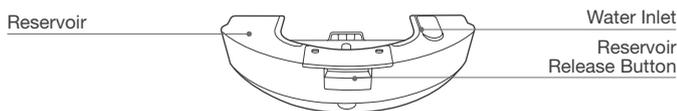


Anti-drop Sensors

## Docking Station



## OZMO Pro Oscillating Mopping System



## Notes Before Cleaning



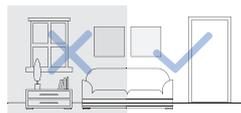
Tidy up the area to be cleaned by putting furniture, such as chairs, in their proper place.



During the first use, make sure each room door is open to help DEEBOT fully explore your house.



It may be necessary to place a physical barrier at the edge of a drop to stop the unit from falling over the edge.



Make sure areas to be cleaned are well illuminated so Visual Detection works properly. Remove power cords and small objects from the floor to ensure cleaning efficiency.



Put away objects including cables, cloths and slippers, etc. on the floor to improve the cleaning efficiency.



Clean the AI VI Visual Detection Sensor and TrueMapping Distance Sensor with a clean cloth, and avoid using any detergent or cleaning spray.



Before using the product on a rug with tasseled edges, please fold the rug edges under.



Please do not stand in narrow spaces, such as hallways, and make sure not to block the Detection Sensor.

# ECOVACS HOME App

To enjoy all available features, it is recommended to control your DEEBOT via the ECOVACS HOME app.

## Before you start, make sure that:

- Your mobile phone is connected to a Wi-Fi network.
- The 2.4GHz band wireless signal is enabled on your router.
- The Wi-Fi indicator light on DEEBOT is slowly flashing.



## Wi-Fi Indicator Light

	Slowly flashing	Disconnected to Wi-Fi or waiting for Wi-Fi connection
	Rapidly flashing	Connecting to Wi-Fi
	Solid	Connected to Wi-Fi

# Wi-Fi Connection

Before Wi-Fi setup, make sure DEEBOT, mobile phone, and Wi-Fi network meet the following requirements.

## DEEBOT and Mobile Phone Requirements

- DEEBOT is fully charged and the power switch of DEEBOT is turned on.
- Wi-Fi status light slowly flashes.
- Turn off mobile phone's cellular data (you can turn it back on after setup).

## Wi-Fi Network Requirements

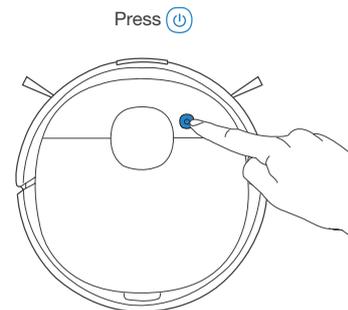
- You are using a 2.4GHz or 2.4/5 GHz mixed network.
- Your router supports 802.11b/g/n and IPv4 protocol.
- Do not use a VPN (Virtual Private Network) or Proxy Server.
- Do not use a hidden network.
- WPA and WPA2 using TKIP, PSK, AES/CCMP encryption.
- WEP EAP (Enterprise Authentication Protocol) is 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 your primary network.

# Operating DEEBOT

## During the first cleaning:

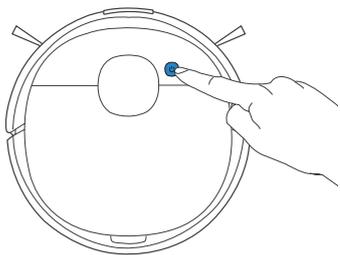
1. Please make sure to install the Substitute Module for DEEBOT to map the house successfully.
2. Please supervise DEEBOT and assist it should there be a problem.

## 1 Start



**Note:** DEEBOT is designed to recognize the edge or a stair based on the perception of dark colors via Anti-Drop Sensors. Thus, please be advised that DEEBOT may not run on certain dark or black-colored surfaces, since DEEBOT may perceive them as an edge or stairs and back away from these areas. Please be highly alerted that if you block or disable the Anti-Drop Sensors, DEEBOT may fall off the edge or the stairs.

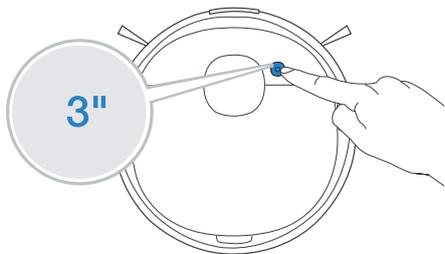
## 2 Pause



**Note:** The robot's Control Panel stops glowing after the robot is paused for a few minutes. Press the AUTO Mode Button on DEEBOT to wake up the robot.

## 3 Return to Charge

Pressing  for 3 seconds to send DEEBOT back to the Docking Station.

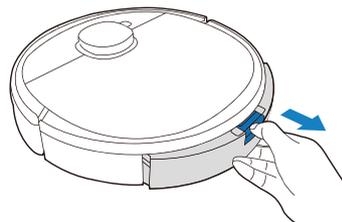


# OZMO Pro Oscillating Mopping System

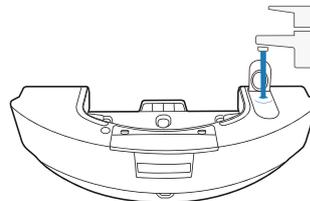
## Note:

1. Install OZMO Pro Oscillating Mopping System for floor scrubbing.
2. With electric oscillating mopping up to 480 times per minute, OZMO Pro is applicable for areas of highly concentrated dirt or dust.
3. Before installing OZMO Pro, please make sure the contacts are thoroughly dry.
4. Please avoid using OZMO Pro on the carpet.

## 1 Remove the Substitute Module

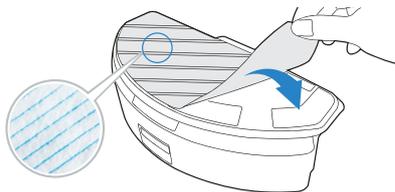


## 2 Fill Up OZMO Pro

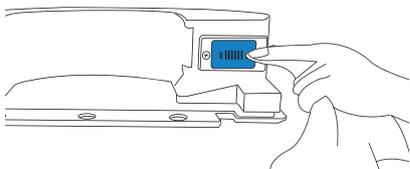


- \* To prolong the service life of OZMO Pro, it is recommended to use purified water or softened water.
- \* Do not soak OZMO Pro in water.

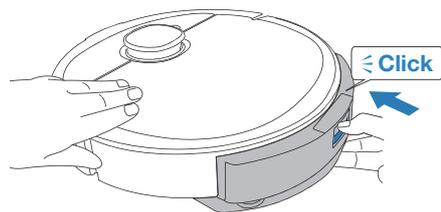
**3 Attach Washable Mopping Pad**



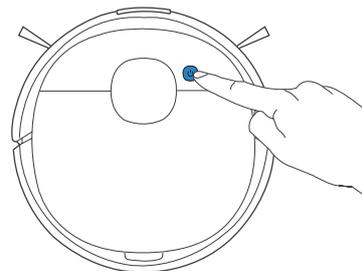
**4 Dry Contacts Thoroughly**



**5 Install OZMO Pro**



**6 Start Cleaning**



# Regular Maintenance

To keep DEEBOT running at peak performance, perform maintenance tasks and replace parts with the following frequencies:

Robot Part	Maintenance Frequency	Replacement Frequency
Washable Mopping Pad	After each use	Every 50 washes
Side Brush	Once every 2 weeks	Every 3-6 months
Main Brush	Once per week	Every 6-12 months
Sponge Filter/High Efficiency Filter	Once per week	Every 3-6 months
TrueDetect 3D Sensor Universal Wheel Anti-Drop Sensors Bumper Charging Contacts Docking Station Pins	Once per week	/

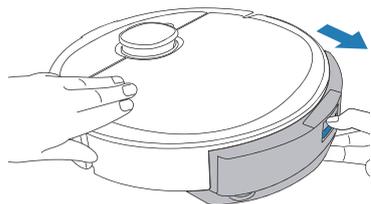
**Before performing cleaning and maintenance tasks on DEEBOT, turn the robot OFF and unplug the Docking Station.**

**A multi-function Cleaning Tool is provided for easy maintenance. Handle with care, this cleaning tool has sharp edges.**

**Note:** ECOVACS manufactures various replacement parts and fittings. Please contact Customer Service for more information on replacement parts.

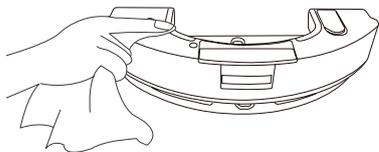
# Maintain OZMO Pro Oscillating Mopping System

## 1 Remove OZMO Pro



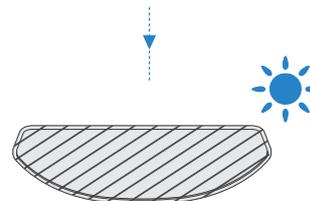
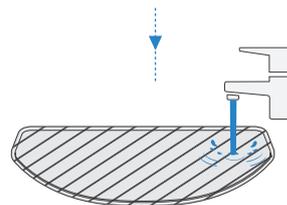
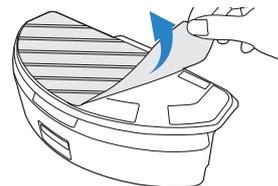
\* After DEEBOT finishes mopping, please empty the reservoir.

## 2 Wipe OZMO Pro Clean



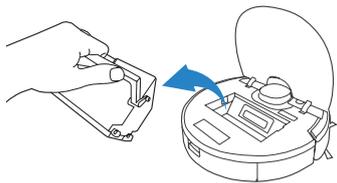
\* Wipe OZMO Pro Oscillating Mopping System with a clean, dry cloth. Do not soak into water.

## 3 Wash Washable Mopping Pad



## Maintain Dust Bin and Filters

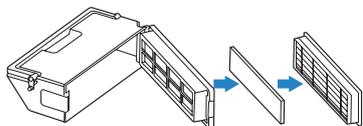
1



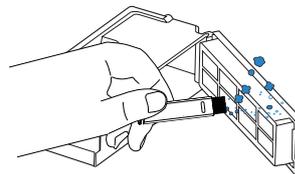
2



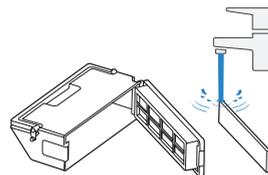
3



4



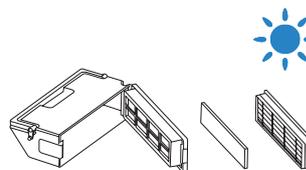
5



6

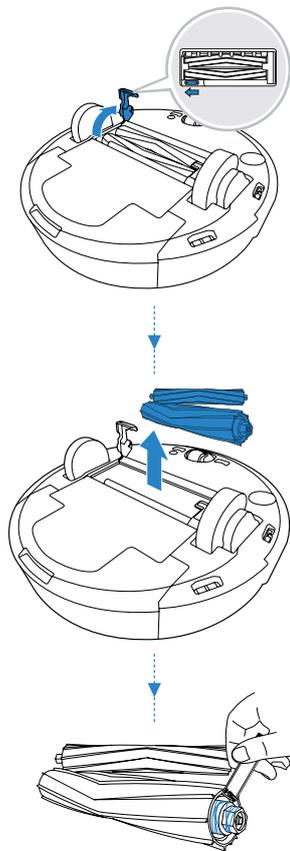


7

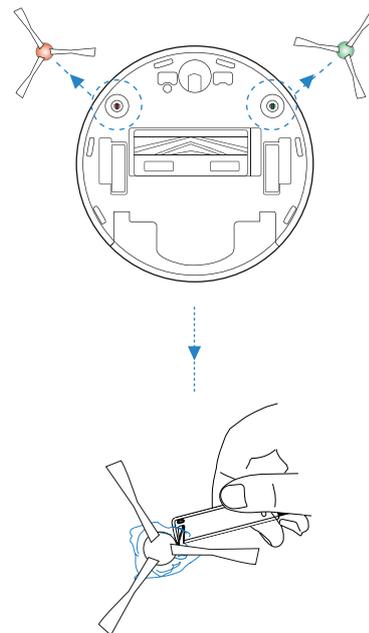


# Maintain Main Brush and Side Brushes

## Main Brush

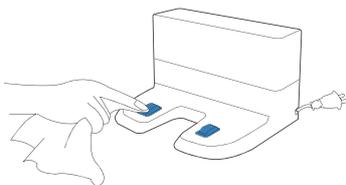
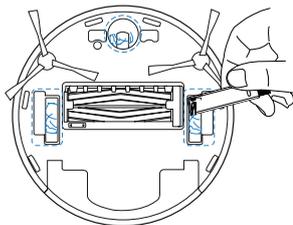
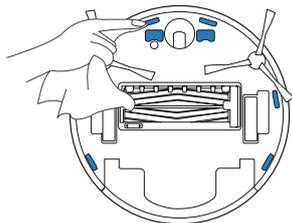
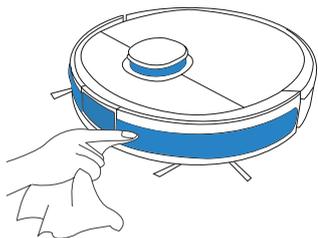


## Side Brushes



## Maintain Other Components

**Note:** Before cleaning the robot's Charging Contacts and Docking Station Pins, turn the robot OFF and unplug the Docking Station. Wipe the components with a clean, dry cloth. Avoid using cleaning sprays or detergents.



# Indicator Light

DEEBOT will tell you something is wrong with an indicator light and voice report. More detailed support is available through the ECOVACS HOME and online website.

Indicator Light	Scenario
AUTO Mode Button glows a solid WHITE.	The robot is cleaning.
	The robot is paused while cleaning.
AUTO Mode Button flashes WHITE.	The robot is charging.
	The robot is starting.
	The robot is relocating.
AUTO Mode Button glows a solid RED.	The robot has low battery.
AUTO Mode Button flashes RED.	The robot has a problem.

# Troubleshooting

No.	Malfunction	Possible Causes	Solutions
1	DEEBOT is not charging.	DEEBOT is not switched ON.	Switch ON DEEBOT.
		DEEBOT has not connected to the Docking Station.	Be sure that the robot's Charging Contacts have connected to the Docking Station Pins.
		The Power Cord is not connected to the Docking Station.	Make sure the Power Cord is firmly connected to the Docking Station.
		The Docking Station is not connected to the power supply.	Make sure the Docking Station is connected to the power supply.
		The battery is completely discharged.	Please contact Customer Care for help.
2	DEEBOT cannot return to the Docking Station.	The Docking Station is not correctly connected.	Make sure the Docking Station is correctly connected.
		The Docking Station is manually moved during the cleaning.	It is suggested not to move the Docking Station during the cleaning.
		DEEBOT is paused for more than 90 minutes.	It is suggested not to pause DEEBOT for more than 90 minutes.
		DEEBOT did not start cleaning from the Docking Station.	Make sure DEEBOT starts cleaning from the Docking Station.
3	DEEBOT gets stuck while working and stops.	DEEBOT is tangled with something on the floor (electrical wires, curtains, carpet fringing, etc.).	DEEBOT will try various ways to free itself. If it is unsuccessful, manually remove the obstacles and restart.
		DEEBOT might be stuck under furniture with an entrance of similar height.	Please set a physical barrier, or set a Virtual Boundary in the ECOVACS HOME App.

No.	Malfunction	Possible Causes	Solutions
4	DEEBOT returns to the Docking Station before it has finished cleaning.	Working time varies according to floor surface, room complexity and the Cleaning Mode selected. When the battery gets low, DEEBOT automatically switches to Recharge Mode and returns to the Docking Station to recharge itself.	Turn on Continuous Cleaning function in ECOVACS HOME App. DEEBOT will automatically resume the uncompleted cleaning cycle when Continuous Cleaning is enabled.
		DEEBOT is unable to reach certain areas blocked by furniture or barriers.	Tidy up the area to be cleaned by putting furniture and small objects in their proper place.
		The Docking Station is too distant from the center of the house.	Please place the Docking Station against the wall of a central room of the house.
5	DEEBOT does not clean automatically at the scheduled time.	Time Scheduling function is cancelled.	Program DEEBOT to clean at specific times using the ECOVACS HOME App.
		DEEBOT is switched OFF.	Switch ON DEEBOT.
		The robot's battery is low.	Keep DEEBOT switched ON and connected to the Docking Station to make sure it has a full battery to work at any time.
6	DEEBOT is stuck when cleaning with OZMO Pro installed.	DEEBOT may have difficulty climbing over obstacles when using OZMO Pro.	Please assist DEEBOT if there is a problem.
7	DEEBOT misses cleaning spots to be cleaned, or repeats cleaning the area cleaned.	The cleaning cycle is interfered by small objects or barriers on the floor.	Remove power cords and small objects from the floor to ensure cleaning efficiency. DEEBOT will automatically clean the area missed, please avoid moving DEEBOT manually or block the path during the cleaning cycle.
		DEEBOT is working on slippery polished floors.	Make sure the floor wax is dried before DEEBOT starts cleaning.
		DEEBOT is unable to reach certain areas blocked by furniture or barriers.	Tidy up the area to be cleaned by putting furniture and small objects in their proper place.
		The TrueMapping Distance Sensor is blocked.	Remove the objects that are blocking the TrueMapping Distance Sensor.

No.	Malfunction	Possible Causes	Solutions
8	AIVI Visual Detection Sensor cannot recognize objects.	The cleaning area is not well illuminated.	Smart Recognition requires sufficient lighting. Please make sure the areas to be cleaned are well illuminated.
		AIVI Visual Detection Sensor lens is dirty or blocked.	Clean the lens with a clean soft cloth, and make sure the sensor is not blocked. Avoid using any detergent or cleaning spray while cleaning.
		The objects are too close to the AIVI Visual Detection Sensor.	This is normal. The optimal distance of object identification for AIVI Visual Detection Sensor is 50 cm(19.7 inches).
9	DEEBOT is not able to connect to the home Wi-Fi network.	Incorrect home Wi-Fi username or password entered.	Enter the correct home Wi-Fi username and password.
		Incorrect App installed.	Please download and install ECOVACS HOME App.
		DEEBOT is not within range of your home Wi-Fi signal.	Make sure DEEBOT is within range of your home Wi-Fi signal.
		Network setup started before DEEBOT was ready.	Turn ON Power Switch. Press the RESET Button. DEEBOT is ready for network setup when its Wi-Fi Indicator light flashes slowly.
		DEEBOT does not support 5 GHz Wi-Fi.	Make sure the robot has been connected with 2.4 GHz Wi-Fi network.
10	DEEBOT does not clean the whole area.	The cleaning area is not tidy.	Remove small objects from the floor and tidy up the cleaning area before DEEBOT starts cleaning.
11	DEEBOT Side Brushes drop out of place during use.	The Side Brushes are not correctly installed.	Make sure the Side Brushes click into place when installing.

## Technical Specifications

<b>Model</b>	<b>DBX12</b>				
Rated Input	20V $\equiv$ 1A				
<b>Docking Station Model</b>	<b>CH1822</b>			<b>CH1918 (Sold Separately)*</b>	
Rated Input	100-240V $\sim$ 50-60Hz 0.5A	Rated Input (Charging)	For European Union Only	220-240V $\sim$ 50-60Hz 0.3A	
			For Russia Only	220V $\sim$ 50-60Hz 0.3A	
	Rated Output	20V $\equiv$ 1A	Rated Output	20V $\equiv$ 1A	
	/	Power(Auto-Emptying)	1000W		
Frequency bands	2400-2483.5MHz				
Off Mode Power	Less than 0.50W				
Networked Standby Power	Less than 2.00W				

Output power of the Wi-Fi module is less than 100mW.

**Note:** Technical and design specifications may be changed for continuous product improvement.

\* CH1918 is an Auto-Empty Station sold separately that automatically empties your DEEBOT dustbin. Explore more accessories at <https://www.ecovacs.com/global>.

**Ecovacs Robotics Co., Ltd.**

No.518 Songwei Road, Wusongjiang Industry Park, Guoxiang Street,  
Wuzhong District, Suzhou, Jiangsu, China.