



DEEBOT X1 TURBO

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 Clean 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 Clean 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 Clean 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 Clean 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 Clean 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 Clean Station.
24. Remove the Appliance from the Clean 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 Clean 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 Clean Station.

32. WARNING: For the purposes of recharging the battery, only use the detachable supply unit CH2108 provided with the Appliance.

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.

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.

	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>.

For UK

For UK 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



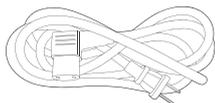
Dual Side
Brushes



Washable
Mopping Pads



Clean Station



Power Cord



Cleaning Brush



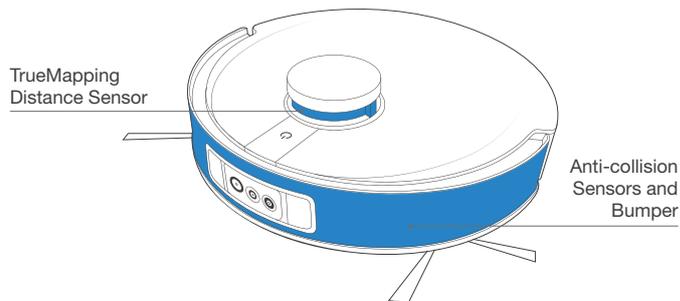
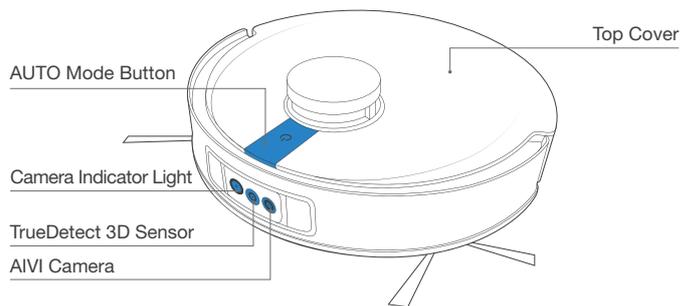
Instruction Manual



Multi-Function
Cleaning Tool

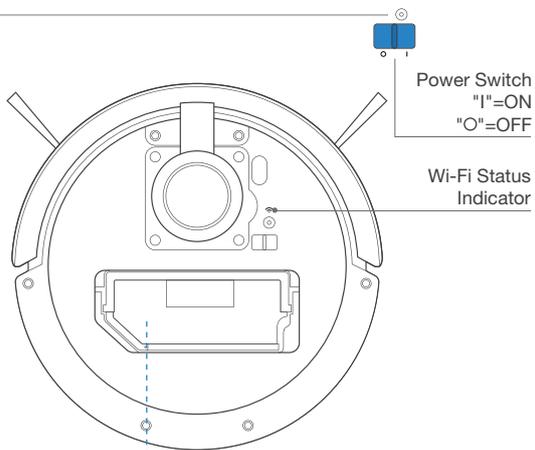
Product Diagram

Robot

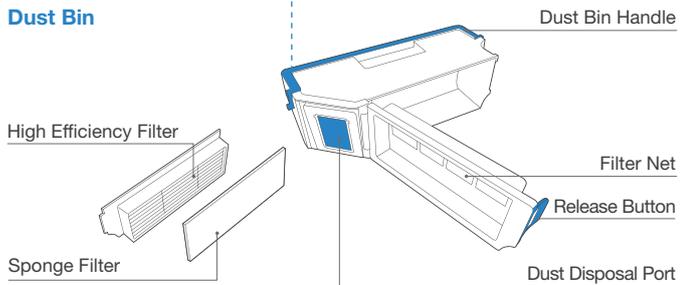


Note: Figures and illustrations are for reference only and may differ from actual product appearance. Product design and specifications are subject to changes without notice.

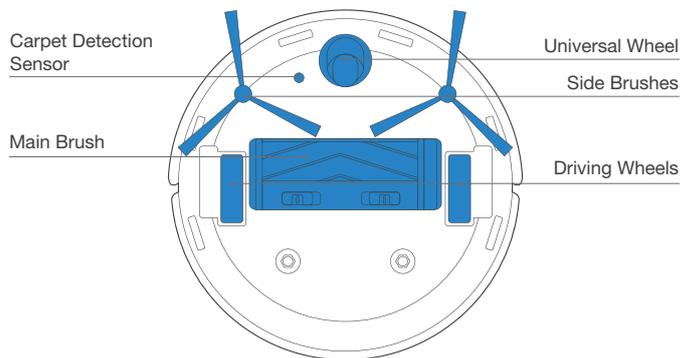
RESET Button



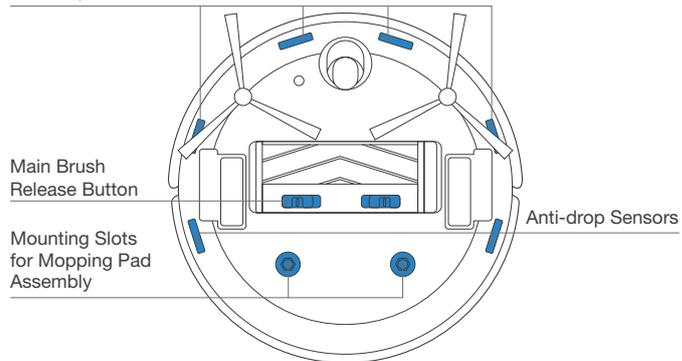
Dust Bin



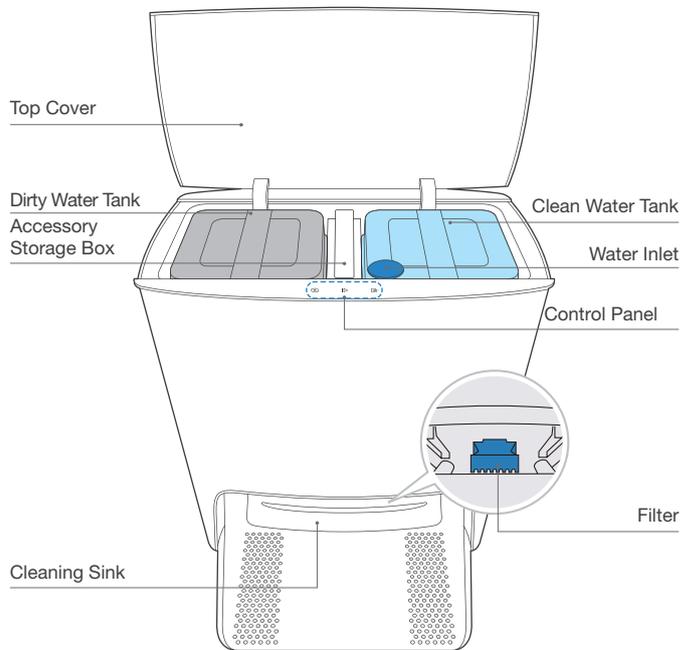
Bottom View



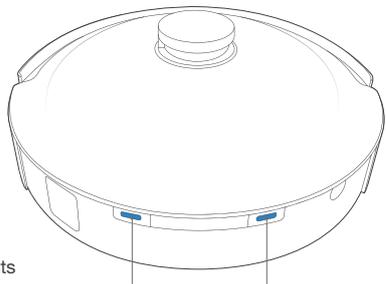
Anti-drop Sensors



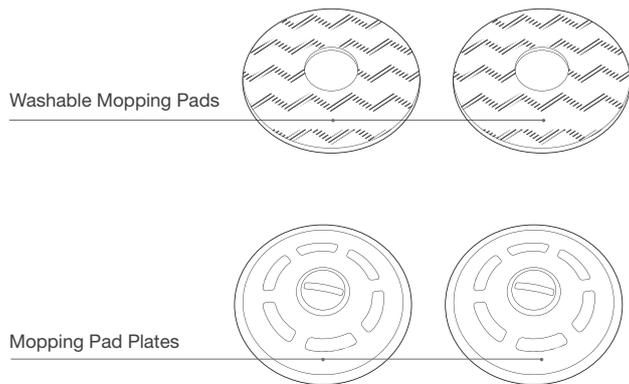
Clean Station



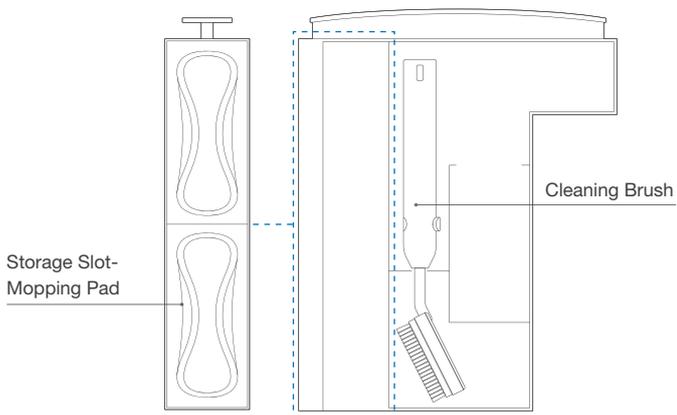
Control Panel Button



Mopping Pad Assembly



Accessory Storage Box



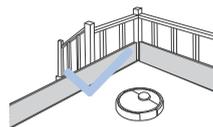
Notes Before Cleaning



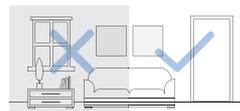
Tidy up the area to be cleaned by putting furniture, such as chairs, in their proper place.



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 AIVI Camera 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 AIVI Camera 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.



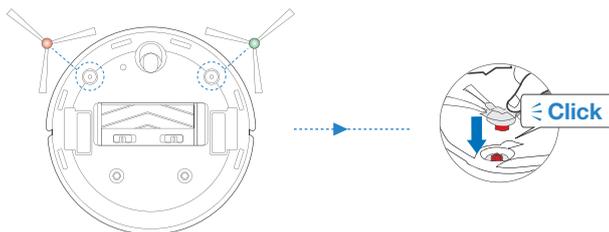
Please do not stand in narrow spaces, such as hallways, and make sure not to block the AIVI Camera.

Quick Start

Before using DEEBOT, please remove all protective films or protective strips on DEEBOT and Clean Station.

Install the Side Brush

Make sure the color of Side Brush is consistent with that of mounting slot.



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 or 2.4/5 GHz 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).

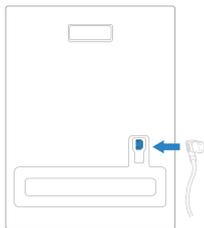
Wi-Fi Network Requirements

- 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.

Please be aware that the realization of intelligent functions such as remote startup, voice interaction, 2D/3D map display and control settings, and personalized cleaning (depending on different products) requires users to download and use ECOVACS HOME App, which is constantly updated. You need to 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 through ECOVACS HOME App. If you do not agree with our Privacy Policy and User Agreement, some of the aforementioned intelligent functions cannot be realized through ECOVACS HOME App, but you can still use the basic functions of this product for manual operation.

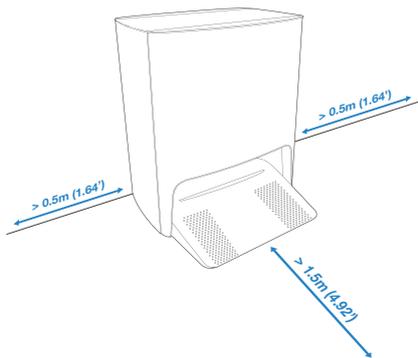
Charging DEEBOT

1 Assemble Clean Station



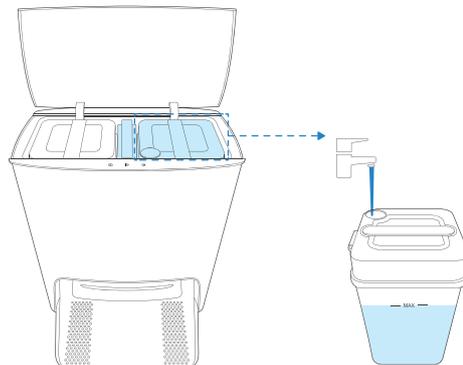
2 Clean Station Placement

Keep the area around the Station clear of objects and reflective object surfaces.



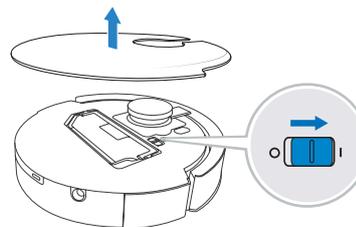
* If there are reflective objects such as mirrors and reflective skirting lines near the Station, the bottom 14cm of that should be covered.
Do not place the Station under direct sunlight.
It is recommended to place the Station on the hard floor to experience complete functions of the robot.

3 Add Water to Clean Water Tank



Note: It is recommended to use ECOVACS DEEBOT Cleaning Solution (sold separately). Using other cleaning solution may cause DEEBOT slipping, water tank block and other problems.

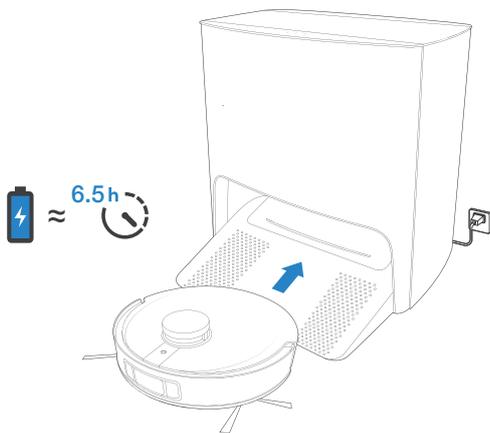
4 Power ON



Note: I = ON, O = OFF.

DEEBOT cannot be charged when being powered OFF.

5 Charge DEEBOT



It is recommended that DEEBOT start cleaning from the Station. Do not move the Station while cleaning.

Operating DEEBOT

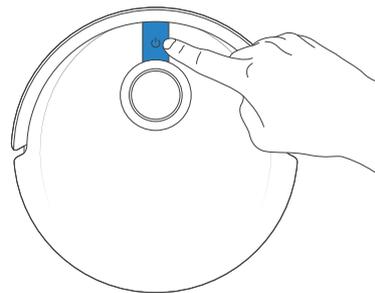
When creating a map for the first time, please follow DEEBOT to help eliminate some minor issues.

For example, DEEBOT may get stuck under the low furniture. Please refer to the following solutions:

- ① Raise the furniture if possible;
- ② Cover the bottom of the furniture;
- ③ Set up Virtual Boundary via the App.

1 Start

Tap  on DEEBOT
or  on the Clean Station to start

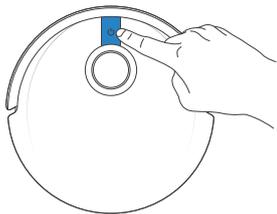


Note:

1. For the first-time cleaning, please ensure that DEEBOT is fully charged.
2. It is not recommended to assemble Mopping Pad Plates for the first time cleaning.

2 Pause/Wake Up

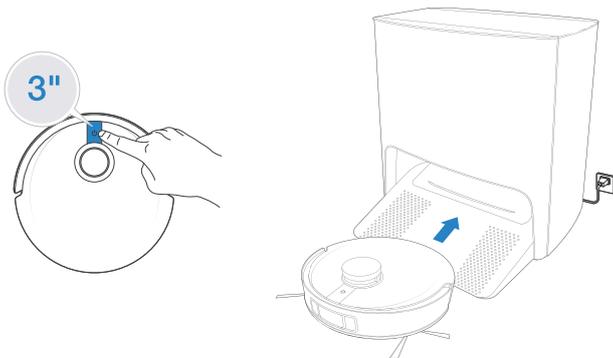
Tap  on DEEBOT or  on the Clean Station to pause.



Note: The indicator light will go out after the robot is paused for a few minutes. Press the AUTO Mode Button on DEEBOT to wake up the robot.

3 Back to Station

Tap  for 3 seconds to recall DEEBOT to the Clean Station.

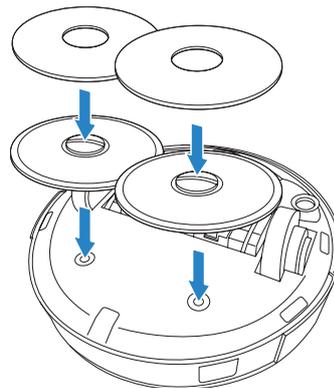


Note: When DEEBOT is not working, it is recommended to keep it switched ON and charging.

Mopping

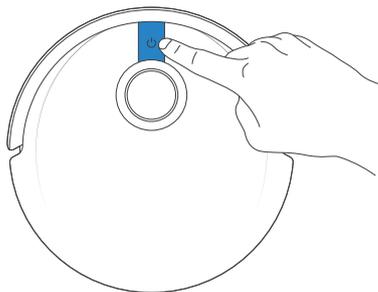
1. The Reservoir in DEEBOT can be automatically refilled through the Clean Station.
2. Do not use the mopping function on the carpet.

1 Attach the Mopping Pads and Mopping Pad Plates.



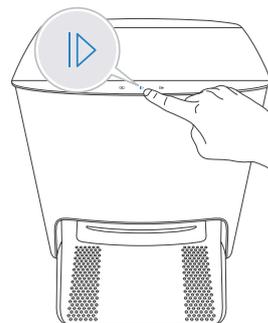
2 Mop

Tap  on DEEBOT
or  on the Clean Station to start mopping

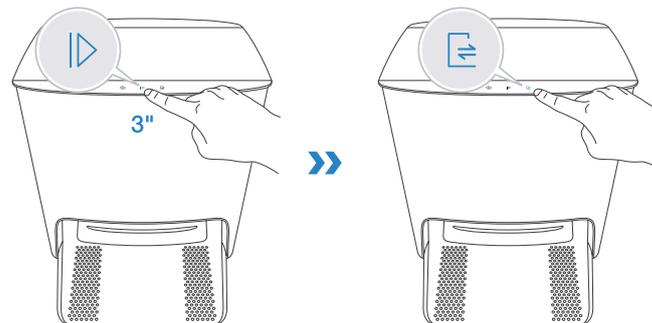


Clean Station

1 Start/Pause DEEBOT



2 Recall DEEBOT

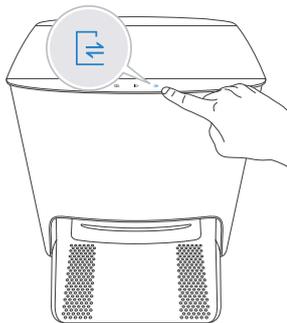


Note:

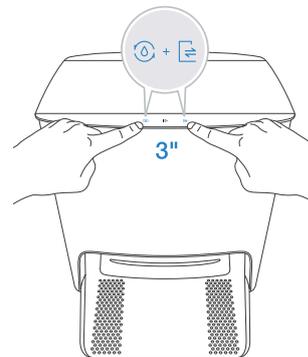
1. To prolong the service life of the reservoir, do not frequently remove washable mopping pads.
2. Do not use a rag or any other object to scratch the Mopping Pad Plates.
3. When the ECOVACS HOME App prompts that the mops need to be replaced, please replace them in time.

Explore more accessories at ECOVACS HOME App or at <https://www.ecovacs.com/global>.

3 Direct DEEBOT to Exit from Clean Station



4 Child Lock ON/OFF



When Child Lock is enabled, the touch key on DEEBOT and the Station will be locked to ensure safety. Repeat the same step to disable Child Lock.

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	/	Every 1-2 months
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 AIVI Camera TrueMapping Distance Sensor Universal Wheel Anti-Drop Sensors Bumper Charging Contacts Clean Station Pins	Once per week	/
Cleaning Sink	Once every 2 weeks	/
Clean Water Tank	Once every 3 months	/
Dirty Water Tank	After each mopping	/
Clean Station	Once per month	/
Filter	Once per month	/

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

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

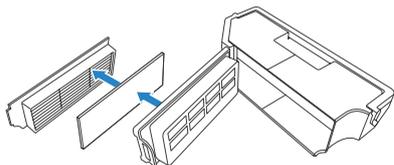
Note: ECOVACS manufactures various replacement parts and fittings. Please contact Customer Service for more information on replacement parts.

Maintain Dust Bin and Filters

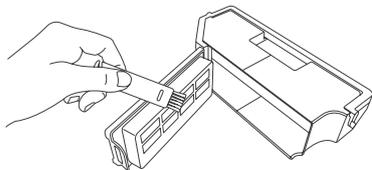
1



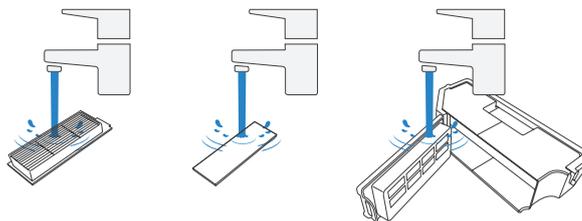
2



3



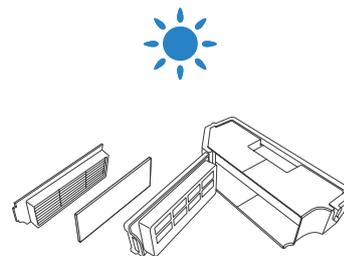
4



Note:

1. Please rinse the filter with water as shown above.
2. Do not use finger or brush to clean the High Efficiency Filter.

5

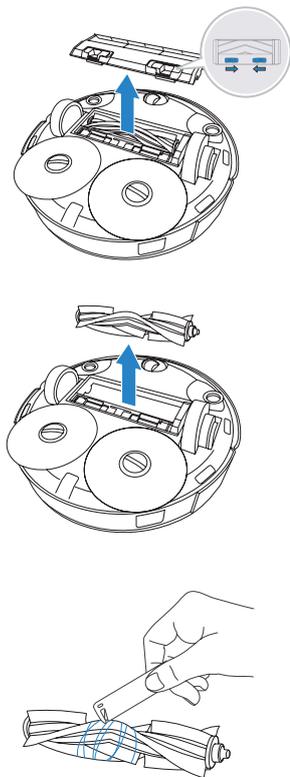


Note:

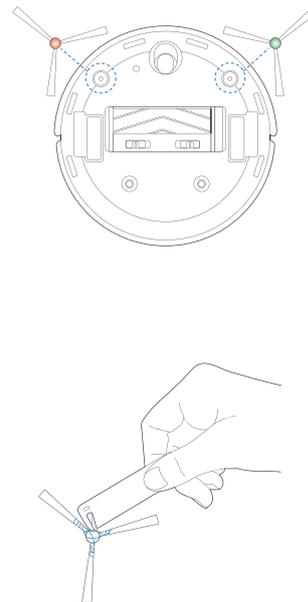
Completely dry the filter before use.
Explore more accessories at ECOVACS HOME App or at <https://www.ecovacs.com/global>.

Maintain Main Brush and Side Brushes

Main Brush

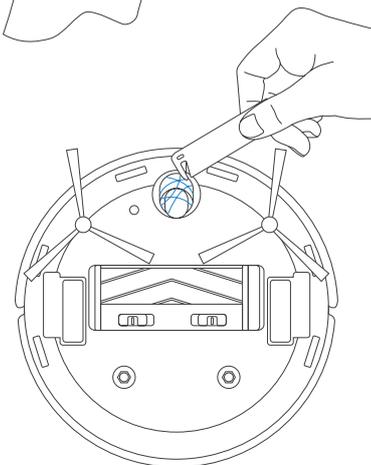
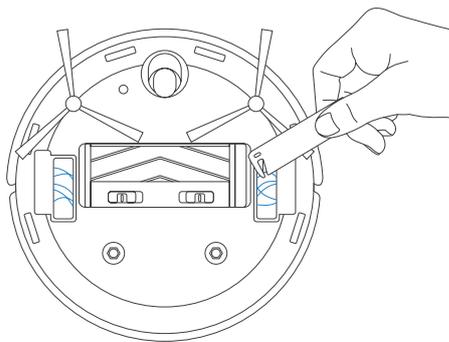
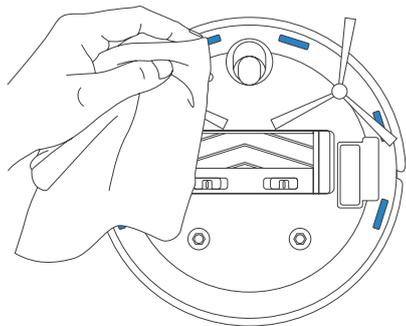
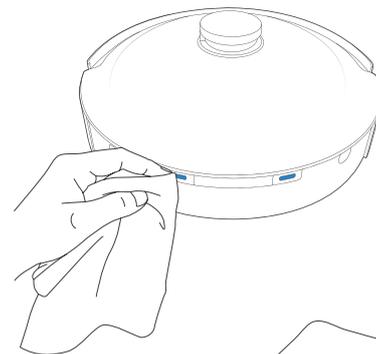
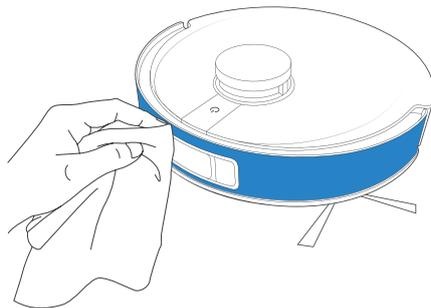
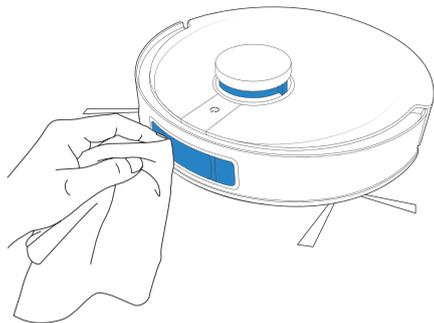


Side Brushes



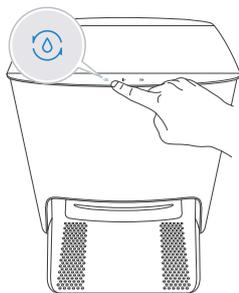
Maintain Other Components

Note: Wipe the components with a clean, dry cloth. Avoid using cleaning sprays or detergents.

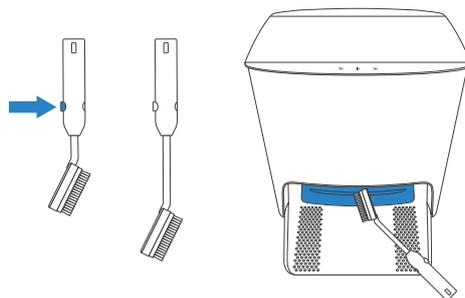


Maintain Clean Station

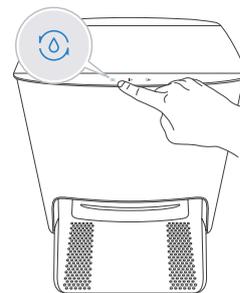
1 Add Water to Cleaning Sink



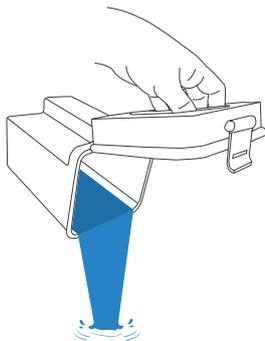
2 Clean Cleaning Sink



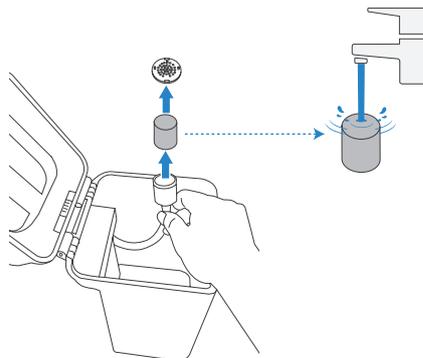
3 Drain the Water Out of Cleaning Sink



4 Empty Dirty Water Tank

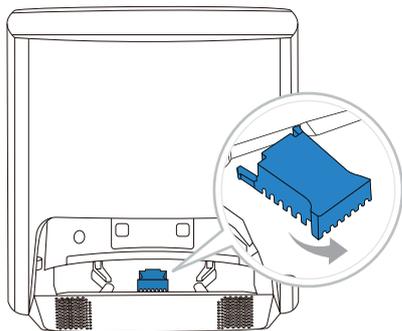


5 Clean the Clean Water Tank Filter

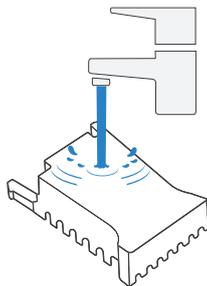


Maintain Filter

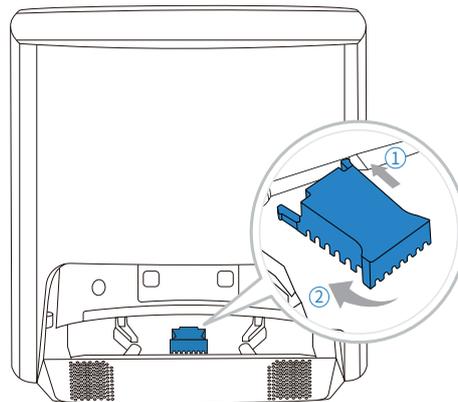
1 Take the Filter out



2 Wash the Filter



3 Install the Filter



Troubleshooting

No.	Malfunction	Possible Causes	Solutions
1	DEEBOT is not able to connect to ECOVACS HOME App.	Incorrect home Wi-Fi username or password entered.	Enter the correct home Wi-Fi username and password.
		DEEBOT is not within range of your home Wi-Fi signal.	Make sure DEEBOT is within range of your home Wi-Fi signal.
		DEEBOT is not in the configuration state.	Make sure DEEBOT is connected to the power supply and turned on. Open the cover, and press RESET Button. DEEBOT will enter the configuration state when you hear a voice prompt.
		Incorrect App installed.	Please download and install ECOVACS HOME App.
		Not using a 2.4GHz or 2.4/5 GHz mixed network.	DEEBOT does not support 5G network. Please use a 2.4GHz or 2.4/5 GHz mixed network.
2	The map is lost.	The map might be lost if you move DEEBOT when cleaning.	Move DEEBOT to the front of the Station to retrieve the map. Find the restored map in the Map Management and tap "Use This Map" to retrieve it. If this problem persists after trying the above solutions, please restart mapping.
3	Unable to create furniture map on App.	DEEBOT does not start cleaning from the Station.	DEEBOT must start cleaning from the Station.
		Move DEEBOT when cleaning might cause the mop lost.	During cleaning, do not move DEEBOT as far as possible.
		Auto cleaning is not complete.	Make sure DEEBOT automatically return to the Station after cleaning.
4	DEEBOT Side Brushes drop out of place during use.	The Side Brushes are not properly installed.	Make sure the Side Brushes click into place when installing.

No.	Malfunction	Possible Causes	Solutions
5	No signal found. Unable to return to the Station.	The Station is incorrectly placed.	Please place the Station correctly according to the instructions in the [Charging DEEBOT] section.
		The Station is out of power or manually moved.	Check whether the Station is connected to power supply. Do not manually move the Station.
		DEEBOT does not start cleaning from the Station.	It is recommended that DEEBOT start cleaning from the Station.
		The charging route is blocked. For example, the door of the room with the Station in is closed.	Keep the charging route clear.
6	DEEBOT returns to the Station before it has finished cleaning.	The room is so large that DEEBOT needs to return to recharge.	Please enable Continuous Cleaning. For more details, please follow the App instruction.
		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.
7	DEEBOT is unable to charge.	DEEBOT is not switched ON.	Switch ON DEEBOT.
		DEEBOT's Charging Contacts are not connected to the Station Pins.	Make sure that the robot's Charging Contacts have connected to the Station Pins and the AUTO Mode Button flashes. Check whether DEEBOT'S Charging Contacts and the Station are dirty. Please clean these parts according to the instructions in the [Maintenance] section.
		The Station is not connected to the power supply.	Make sure the Station is connected to the power.
		The battery will be overcharged if DEEBOT is not used for a long time.	It is recommended to regularly use DEEBOT. If the battery cannot be charged because it has not been used for a long time, please contact Customer Care for help.
8	Running is very loud during cleaning.	Side brushes and main brush are entangled. Dust bin and filter are blocked.	It is recommended to clean the side brushes, main brush, dust bin, filter, etc. regularly.
		DEEBOT is in Max Mode.	Switch to Standard Mode.
9	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 via the ECOVACS HOME App.

No.	Malfunction	Possible Causes	Solutions
10	During cleaning, DEEBOT appears in the route disorder, running bias, repeated cleaning, small area leakage and so on. (If there is a large area that has not been swept temporarily, DEEBOT will make up the leakage independently. Sometimes DEEBOT will re-enter a cleaned room to find any missing area.)	Objects such as wires and slippers placed on the ground affect the normal operation of DEEBOT.	Please tidy up the scattered wires, slippers and other objects on the ground before cleaning. And reduce the scattered objects on the ground as far as possible. If there is any area leakage, DEEBOT will correct the leakage by itself, please do not interfere (such as moving DEEBOT or blocking the route).
		It may be that the Driving Wheels slips on the ground when DEEBOT climbs steps, thresholds and door bars, thus affecting the its judgment of the whole house environment.	It is recommended to close the door of this area and clean the area separately. After cleaning, DEEBOT will return to the starting location. Please rest assured to use.
		Work on freshly waxed and polished floors or smooth tiles, resulting in less friction between the Driving Wheels and the floor.	Please wait for wax to dry before cleaning.
		Due to different home environments, some areas cannot be cleaned.	Clean the home environment to ensure that DEEBOT can enter for cleaning.
		The TrueMapping Distance Sensor is dirty or blocked by foreign matters.	Wipe the TrueMapping Distance Sensor with a clean soft cloth or remove foreign matters.
11	Video Manager cannot open or has no screen.	Wi-Fi connection failed.	Check the Wi-Fi connection status. DEEBOT must be in an area with good Wi-Fi signal to enable the Video Manager.
		Video Manager is not authorized.	Please check your consent in the Privacy Policy before using the robot.
		Due to the network latency, you may not be able to open Video Manager temporarily.	Try again later.
		The AIVI Camera is blocked.	Remove the shield.
12	Delay in remote control.	The Wi-Fi signal is poor, causing the video loading to be slow.	Use DEEBOT in areas with good Wi-Fi signals.

No.	Malfunction	Possible Causes	Solutions
13	AIVI Camera 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 Camera 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.
14	Mopping Pad Plate cannot rotate.	The Mopping Pad Plate is blocked by foreign objects.	Clean the foreign objects.
15	DEEBOT does not respond to the Station instruction.	DEEBOT is too far away from the Station.	If it is beyond the available distance, the ECOVACS HOME App can also be used to operate DEEBOT.
		DEEBOT and the Station are not paired.	Unplug the Station and wait for 10 seconds to reinsert the plug. Power off the robot and then turn it back on. Manually push the robot up to the Station, and ensure that the charging pins are correctly connected. Then, DEEBOT will start charging, and voice prompt pairing successful.
16	Fail to enable Child Lock.	Communication interruption between the Station and DEEBOT (For example: long distance or many partition walls)	Move DEEBOT near the Station to ensure smooth communication, and then enable Child Lock.
17	Driving wheels are blocked.	Driving wheels are blocked by foreign objects.	Please rotate and press the driving wheels to check whether there is any foreign object wrapped or stuck. If there is any foreign object, please clean it in time. If this problem persists, please contact Customer Care for help.

No.	Malfunction	Possible Causes	Solutions
18	When the water in the Cleaning Sink is full and cannot be drained out, the voice reports that the Cleaning Sink is full.	The Dirty Water Tank is not properly installed.	Tap down on the Dirty Water Tank to ensure it is properly installed.
		The sealing plugs in the Dirty Water Tank is not installed properly.	Make sure to check that the sealing plugs are properly installed.
		The Station cannot drain water normally.	Double tap  to see whether the Station can properly draw the water. If the problem occurs during the mopping pads cleaning process, press and hold  to finish the task, and then double tap  to see whether the Station can properly draw the water. If the water is successfully drawn, wipe dry the Water Overflow Sensor of the Cleaning Sink. If the Station fails to draw the water, check between the Dirty Water Tank and the Station for foreign matter and clean it.
		The suction port of the Cleaning Sink is blocked by foreign object.	Ensure that there is no foreign object in the suction port of the Cleaning Sink.
		The voice prompt still exists after trying the above solutions.	Unplug the Station and plug it again.If this problem persists, please contact Customer Care for help.

Technical Specifications

Model	DEX11
Rated Input	20V \equiv 2A
Clean Station Model	CH2108
Rated Input	100-240V \sim 50-60Hz 0.9A
Rated Output	20V \equiv 2A
Frequency bands	2400-2483.5MHz
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.

Explore more accessories at <https://www.ecovacs.com/global>.

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