



# WINBOT **mini** 2

Instruction Manual

## 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 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. The appliance is not to be used if it has been dropped, if there are visible signs of damage or if it is leaking. Keep the appliance out of reach of children when it is energized.
2. Do not use and charge the Appliance in extremely hot or cold environments (below 0°C/32°F or above 40°C/104°F, above 85% humidity), or it may affect battery life span.
3. The Appliance can be used to clean exterior windows if it is properly tethered to a safe position with the Carabiner, winds are calm, and it is not raining or snowing.
4. Before use, please use the Carabiner to lock the safety tether to a strong indoor railing, and make sure WINBOT is securely attached to it.
5. Do not leave the Appliance unattended when using it. To prevent bodily injury or property damage caused by accidental falling of the Appliance, please make sure there are no people, animals, or valuable, fragile objects under the working area of WINBOT.
6. Do not use the Appliance in whole gale storms and force-10 winds, or in areas where the altitude exceeds 2000 meters (6562 feet).
7. Please ensure the Appliance is plugged in while it is cleaning. The Appliance has a Safety Battery that charges during use. The Safety Battery powers the Appliance if it becomes unplugged or the electricity fails.
8. Do not leave the Appliance unattended when it is plugged in.
9. For household use ONLY (including exterior window). Do not use the Appliance in commercial or industrial environments.
10. Do not use on broken or uneven glass, such as glass with static cling stickers, advertising posters, or raised patterns, so as to prevent glass breaking or Appliance's falling. Do not

use on surfaces with gaps, such as a piece of glass with gaps or holes, or two pieces of adjacent, frameless glass with a gap between them, so as to prevent the Appliance from falling due to poor attachment.

11. Only use accessories recommended or supplied by the manufacturer. Only use the Power Adapter supplied by the manufacturer.
12. Please make sure your power supply voltage matches the power voltage marked on the Power Adapter.
13. Do not use the Appliance on a framed glass with a frame smaller than 5 mm (0.2 in).
14. Do not use on glass less than 3 mm (0.12 in) thick or mirrors less than 4 mm (0.16 in) thick.
15. Do not use on glass or mirrors with a handle height of 70~105 mm (2.76~ 4.13 in).
16. Do not use the Appliance on greasy windows.
17. When used in high humidity environment, the cleaning performance will be affected.
18. Store the Appliance away from heat and flammable materials.
19. In rainy weather, do not use the Appliance on the exterior window to avoid the risk of Appliance's damage or falling.
20. Do not use the Appliance if it does not firmly attach to the glass or has visible signs of damage.
21. To reduce the risk of electrical shock, do not put the Appliance in water or other liquid. Do not place or store Appliance where it can fall or be pulled into a tub or sink.
22. Do not touch power plug with wet hands.
23. When charging the Appliance, do not place it on other electrical appliances and keep it away from fire and liquid.
24. Take care not to damage the power cord. Do not pull on or carry the Appliance by the power cord, use the power cord as a handle, close a window on the power cord, or put heavy weights on the power cord. Keep power cord away from hot surfaces.
25. Do not use with a damaged power cord or receptacle. Do not use the Appliance if it is not working properly, has been dropped, damaged, or come in contact with water. It must be repaired by the manufacturer or its service agent in order to avoid a hazard.
26. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent in order to avoid a hazard.
27. The plug must be removed from the receptacle before cleaning or maintaining the Appliance. Do not unplug the Power Adapter by pulling on the power cord.

28. The Safety Battery must be replaced by the manufacturer or its service agent in order to avoid a hazard.
  29. The Safety Battery must be removed and discarded according to local laws and regulations before disposal of the Appliance.
  30. The Appliance must be disconnected from the receptacle before removing the battery for disposal of the Appliance.
  31. Please dispose of used batteries according to local laws and regulations.
  32. Do not incinerate the Appliance even if it is severely damaged. The battery can explode in a fire.
  33. The Appliance must be used in accordance with the directions in this Instruction Manual. The company cannot be held liable or responsible for any damages or injuries caused by improper use.
  - 34. WARNING:** For the purposes of recharging the battery, only use the detachable supply unit BLJ66WB240275P-D provided with this Appliance.
  35. The robot contains batteries that are only replaceable by skilled persons.
  36. The plug and the Power Adapter must be used indoor.
  37. If the insulated glass, which WINBOT is working on, is leaking, remove WINBOT immediately after cleaning is completed.
  38. Before cleaning, please observe the area to attach WINBOT for any small particles. If there are any, please remove them or switch to a particle-free area to avoid scratching the glass.
  39. Clean the Wiping pad in time and make sure that any small particles on it are completely removed to avoid scratching the glass.
  40. The appliance is only to be used with the unit provided.
  41. Keep the appliance out of reach of children when it is energized or cooling down.
  42. The appliance has to be unplugged after use and before carrying out user maintenance on 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.

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

For EU Countries

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

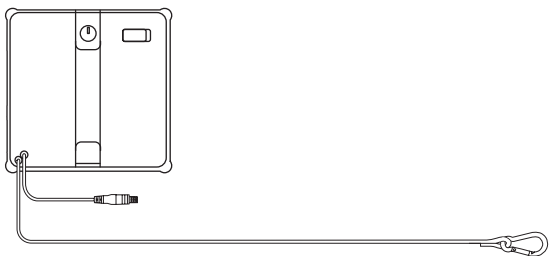


### Correct Disposal of this Product

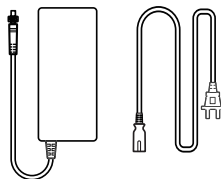
This marking indicates that this product should not be disposed of with other household waste throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To recycle your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

# 1. Product Contents

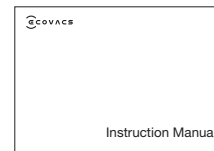
## 1.1 Package Contents



WINBOT + Safety Rope



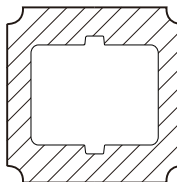
Power Adapter + Power Cord



Instruction Manual



ECOVACS WINBOT Cleaning Solution

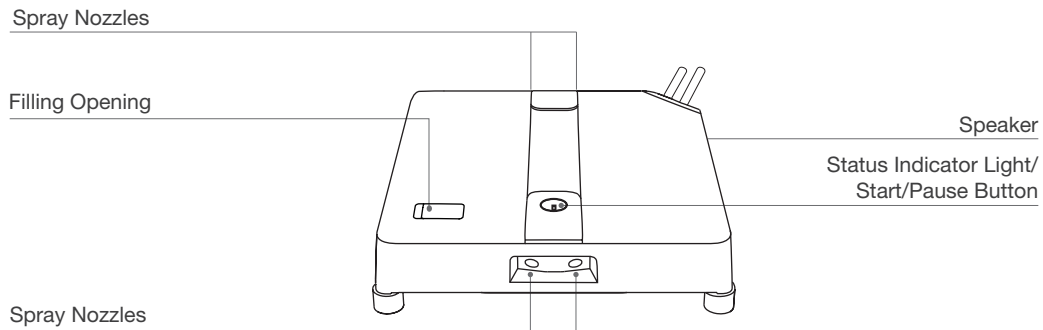


Wiping pad

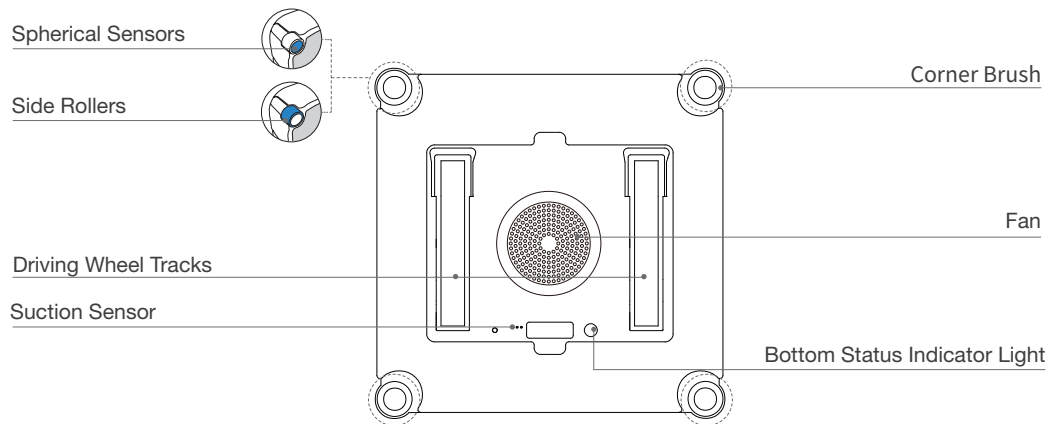
\* Figures and illustrations are for reference only and may differ from actual product appearance.

## 1.2 Product Diagram

### Front View



### Bottom View



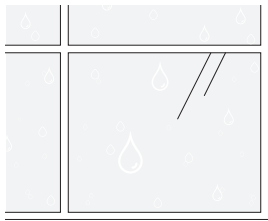
## 2. Quick Start

### 2.1 Notes Before Cleaning

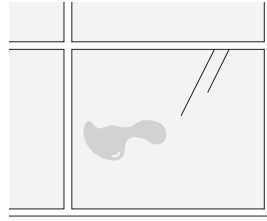
The following situations are not recommended for using WINBOT:

- 1 Do not use WINBOT on windows with condensation or oil stains or in extremely cold or hot environments.

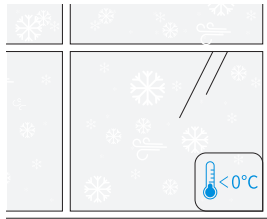
WINBOT may have difficulty moving in the following conditions.



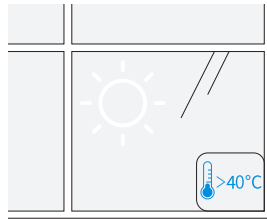
Condensation



Oil stains



Below  $0^{\circ}\text{C}$

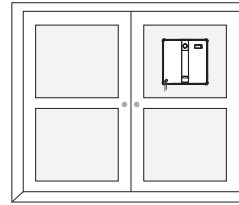


Above  $40^{\circ}\text{C}$

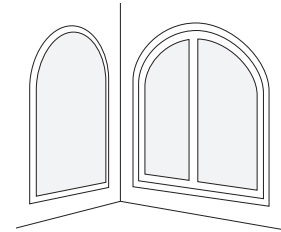
 WINBOT performs better on dry surfaces and in temperatures above  $0^{\circ}\text{C}$ .

- 2 Do not use WINBOT on windows that are too small or have irregular shapes.

WINBOT cannot move around in the following conditions.



Small Glass

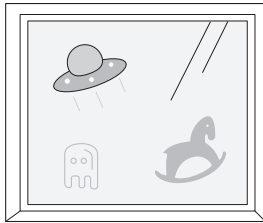


Irregular Shapes

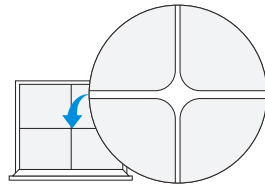
 WINBOT performs better on square and large windows.

### 3 Do not use WINBOT on uneven windows.

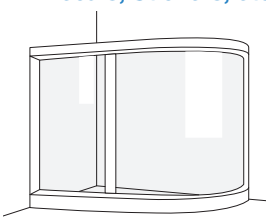
WINBOT may experience insufficient air pressure in the following conditions.



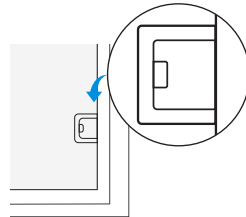
**Electrostatic Window Decals, Stickers, etc.**



**Cracks**



**Curved Glass**



**Obstacle Height < 2 mm**



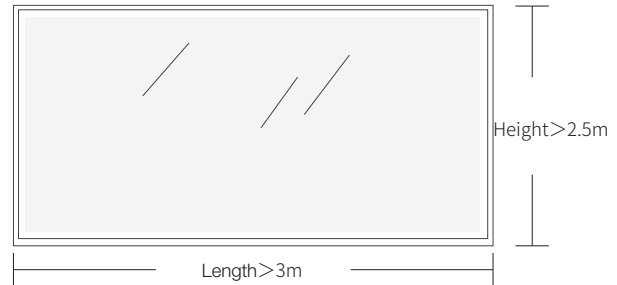
**Frame Height < 1 mm**

**Frame Height < 1 mm**

 WINBOT performs better on a smooth and flat surface to ensure stable suction and smooth movement.

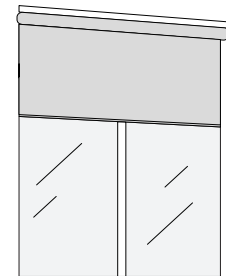
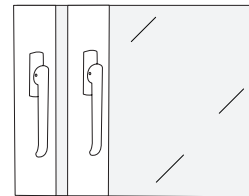
### 4 Do not use WINBOT on windows that are too large.


WINBOT may fail to complete the task due to the length limitation of the connecting cord.



### 5 Do not use WINBOT near narrow gaps close to its height.

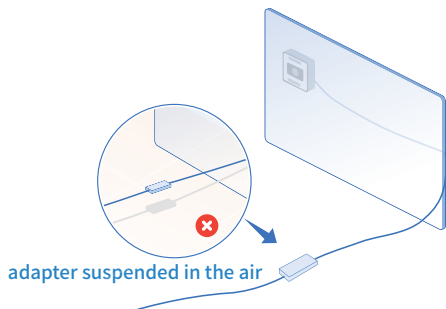
WINBOT may get stuck when nearby narrow spaces, openings or gaps between window handles/door handles/ curtain boxes/ cabinets and surfaces such as walls/windows, are close to its height.



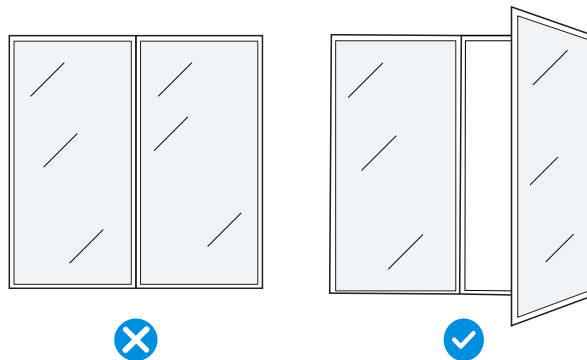
 Try placing WINBOT between the gap to confirm safe passage; if it's stuck, refrain from using the robot there to prevent damage to either itself or surrounding furniture.

**6 Do not leave the adapter suspended in the air when cleaning large glass windows.**

WINBOT may fall due to prolonged suspension. Therefore, always place the adapter on the ground.

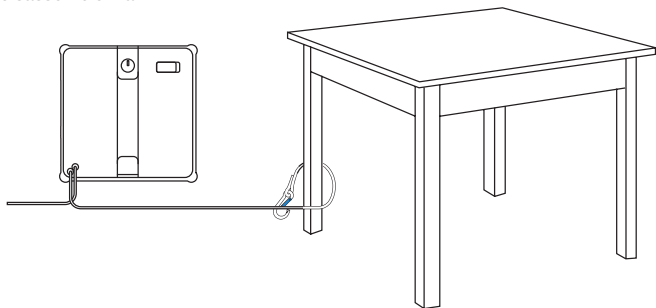


**To clean glass panel doors, open the door before attaching WINBOT to avoid WINBOT falling due to narrow door gaps.**



**Before use, ensure WINBOT's carabiner is properly installed to prevent any accidents.**

\*The safety rope and its carabiner are pre-installed at the factory. Do not disassemble it at will.



## 2.2 Preparation before Use

### 1 Install Wiping Pad

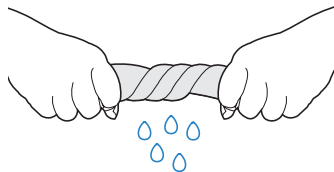
#### 1. Wet the wiping pad

Before using, wet the wiping pad.



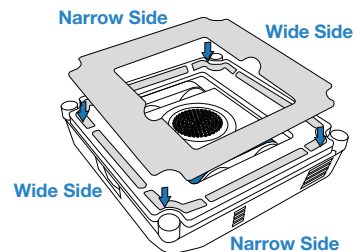
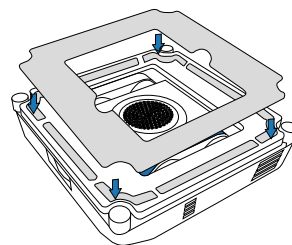
#### 2. Wring out the wiping pad

To protect WINBOT, wring the pad out as much as possible until it's damp but not dripping.



#### 3. Stick the wiping pad

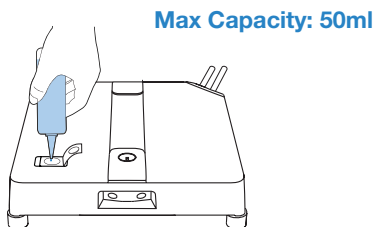
Stick the wiping pad onto the velcro on the bottom of WINBOT, ensuring the narrow and wide sides are aligned correctly. Then press firmly to secure the pad in place.



## 2 Add Cleaning Solution

Add the ECOVACS WINBOT cleaning solution to the water tank. The maximum capacity of the water tank is about 50 ml. In Fast Cleaning, a full tank can spray approximately 30 m<sup>2</sup>.

- \* Do not add excessive cleaning solution to overflow the water tank.
- \* Do not use purified water or filtered water.
- \* It is recommended that the ECOVACS WINBOT cleaning solution be used for optimal cleaning results. Using any cleaning solutions other than the ECOVACS WINBOT cleaning solution may reduce cleaning performance or damage the product.
- \* If the ECOVACS WINBOT cleaning solution runs out, tap water can be used temporarily. However, the ECOVACS WINBOT cleaning solution provides better cleaning results.



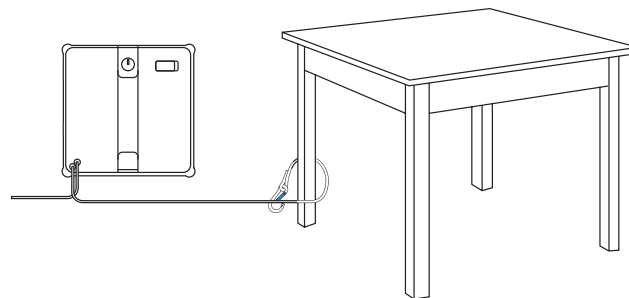
### Note:

1. Do not put your fingers into the filling opening.
2. Wipe the water droplets on the body and the four spray outlets clean, so as not to affect the normal operation.

## 3 Secure Safety Rope and its Carabiner

Ensure the station's carabiner is securely attached to a stable, immovable object such as a table leg, chair leg, bed leg, sofa leg, curtain rod, or staircase handrail. Lock the carabiner as shown below to prevent any accidents.

**Note: Keep someone nearby to monitor WINBOT. Do not allow people or pets to stand directly below WINBOT, and make sure no valuables or fragile items are below the cleaning area.**



To ensure safety, please make sure to secure the carabiner before use.

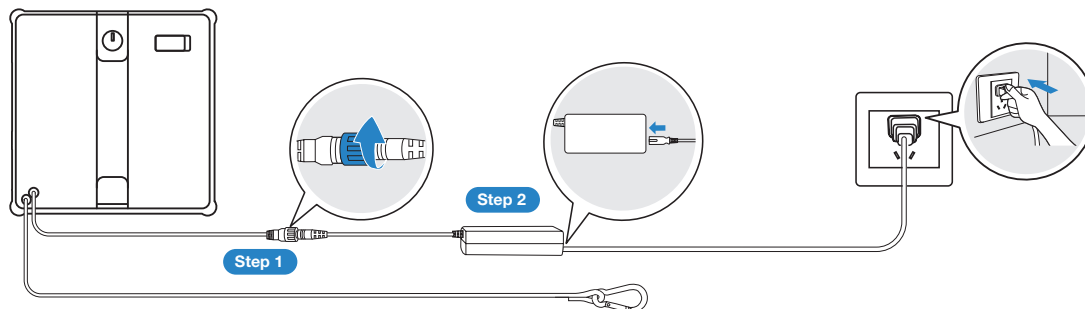
- \* It is recommended to fasten the safety rope with the carabiner on a firm and safe metal railing.

#### 4 Connect WINBOT's Power Cord, Power Adapter, and Plug

Please ensure the battery is fully charged before using. Charging time will be approximately 3 hours.

\* Do not cut the power off when WINBOT is running, otherwise it may lead to the risk of falling.

\* It is particularly emphasized that the aviation plug needs to be firmly connected.

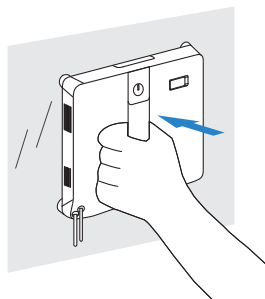
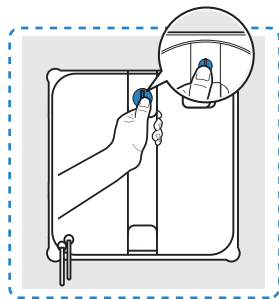


Connect correctly in the order shown above. Improper connection may cause charging abnormalities or damage to the battery.

## 2.3 Getting Started

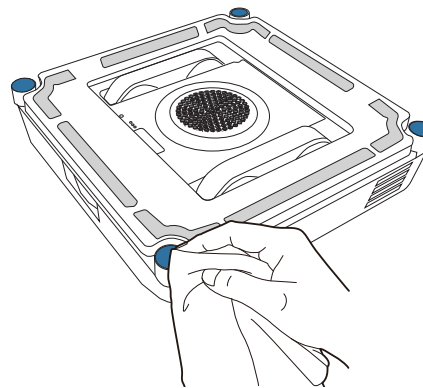
### 1 Start Cleaning

1. Before cleaning, ensure a clean area larger than WINBOT's size, then attach to windows.
  2. Connect the power supply and long press the WINBOT start button for 2 seconds.
  3. After hearing the fan start, place the bottom of the WINBOT (the side with the wiping pad) on the glass. WINBOT will adhere to the window automatically and start cleaning.
- \* Do not stick the WINBOT too close to the edge when cleaning the frameless glass. It is recommended to be more than 10cm away from the edge.
  - \* WINBOT can only clean flat surfaces. Please make sure that the glass thickness is not less than 3mm.
  - \* Do not put the fan close to hair and other small objects after power on, so as not to block the fan.
  - \* Please dry the water droplets at the spray outlet before cleaning.
  - \* Do not stand below or near the WINBOT while it is cleaning.



### 2 Maintenance during Cleaning

For heavily stained glass, wash or replace the wiping pad and corner brushes as needed, then wipe it repeatedly. Meanwhile, ensure the 4 spherical sensors are cleaned regularly for optimal cleaning performance.

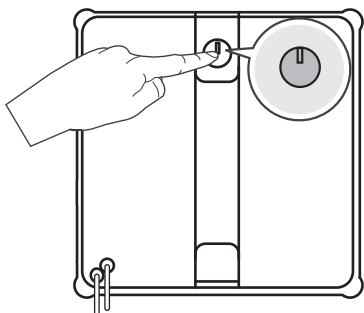


\* Clean the wiping pad and corner brushes in time and make sure that any small particles on them are completely removed to avoid scratching the glass.


## 2.4 Finish

### Pause

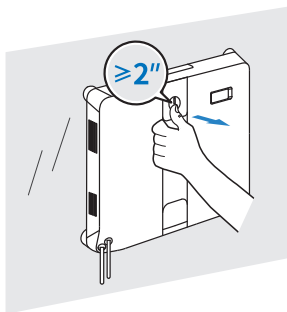
During cleaning, press  on WINBOT or pause it via App.



### Remove WINBOT

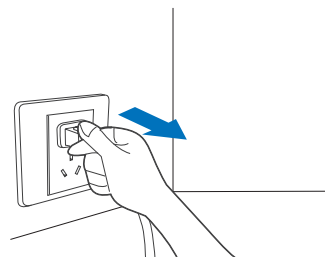
When cleaning is complete, WINBOT will return to the starting position and beep. Please hold the handle tightly. **Long press  for 2 seconds**, and remove it after the fan stops working.

\* Please pour out the cleaning solution after cleaning.



### Power Off

Turn off the power to shut down.



### Unfasten Safety Rope



## 2.5 Advanced Function

Download the ECOVACS HOME App to unlock more WINBOT features.

### a. Multiple Cleaning Modes

**Thorough Clean:** Zigzag/N-shaped cleaning + clockwise cleaning along all four edges.

**Fast Clean:** Zigzag/N-shaped cleaning.

**Spot Clean:** Repeated wiping to remove localized dust.

**Deep Clean:** Two rounds of zigzag/N-shaped cleaning.

**Edge Clean:** Clockwise cleaning along all four edges.

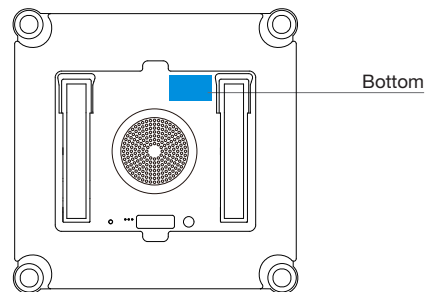
### b. Troubleshooting

If WINBOT triggers an alarm, do not panic. Visit the App for detailed troubleshooting guidance.

### c. Remote Control

Use the App to control WINBOT. Features include: interior and exterior window views, Spot Cleaning, and manual water spraying.

Option 1: Scan the QR Code on WINBOT to download the App.



Option 2: Scan the QR code or search and download the ECOVACS HOME App in the App Store.



Note: When installation is completed, please complete registration, login, and network connection as guided in the App.

## 3.Component Maintenance

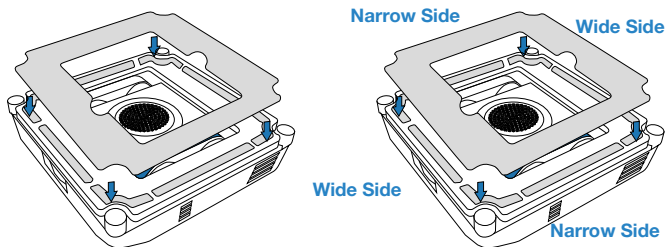
### Wiping pad

#### a. Replace Wiping pad

Remove the dirty wiping pad and attach a new one flatly within the wiping pad holder at the bottom of WINBOT.

Ensure that the groove of the wiping pad corresponds to the blue mark at the bottom of WINBOT. Press and smooth the pad down to ensure a secure fit. Make sure the wide and narrow sides of the wiping pad align with those of the holder.

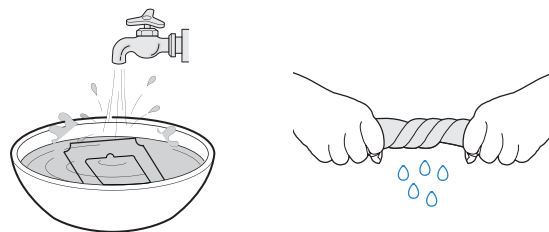
Be careful not to stick the wiping pad outside the holder to avoid affecting WINBOT's operation.



**\*If the velcro on the wiping pad holder is dusty, use a cleaning brush to remove the dust. Do not wash with water to prevent water from entering WINBOT's bottom, which may cause damage.**

#### b. Wash Wiping pad

Remove the wiping pad. Wash it with tap water, and wring it thoroughly until the pad is not dripping before use.

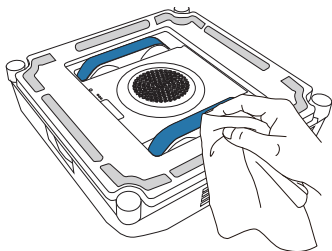


\* Regularly clean the wiping pad to extend its service life. If the wiping pad becomes worn or no longer adheres securely to the velcro, replace it with a new one to achieve optimal cleaning performance.

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

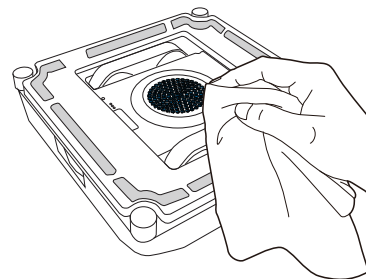
## Driving Wheel Tracks

Before cleaning, ensure the fan is not running. Use the ECOVACS HOME App to remotely control WINBOT and check the driving wheel tracks. Pause the driving wheel tracks' operation if dirt is found. Then wipe the tracks clean with a clean cloth.

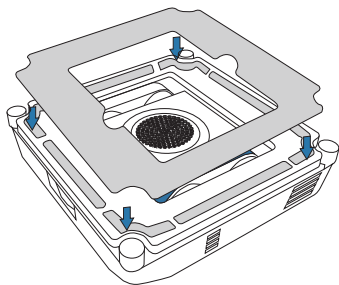


## Bottom Component

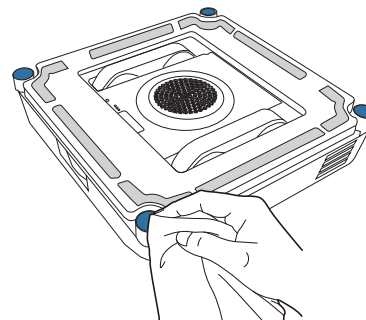
Fan: Wipe clean with a dry cloth to prevent damage to WINBOT's suction force.



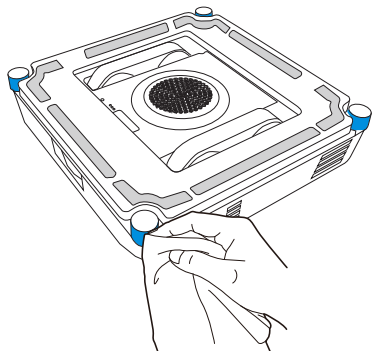
After cleaning the driving wheel tracks, install the wiping pad and resume cleaning tasks.



Spherical Sensors: Wipe clean with a dry cloth to maintain their sensitivity.



Corner Brush and Side Roller: After cleaning is complete, clean the corner brush and side roller with a damp cloth to ensure optimal cleaning performance.



\* After WINBOT issues a low battery warning, ensure WINBOT is fully charged before using or storing it to avoid reducing battery service life.

\* If WINBOT is not used for an extended period, fully charge it, turn it off, and store it properly. To prevent battery damage and charging failure due to over-discharge, recharge it at least once every six months.

## 4. Status Indicator Light

Indicator	Light Effect	Light Effect Interpretation
START button/ Bottom Status Indicator Light	Solid Blue	WINBOT in standby or operation.
	Flashing Red	Malfunction. WINBOT is unable to function properly.
Adapter Status Indicator Light	Solid Green	WINBOT consumes a low current, for instance, in the standby mode.
	Solid Red	Station consumes a high current, for instance, in charging mode.

## 5. Troubleshooting

### 5.1 Issue Resolution

NO.	Malfunction	Possible Causes	Solutions
1	WINBOT slips, such as sliding sideways or body shaking.	The wiping pad is too wet.	Refer to [Component Maintenance] in this manual to replace the wiping pad.
		WINBOT wipes non-recommended stains, such as oil stains.	Refer to [Component Maintenance] in this manual to clean the driving wheel tracks.
2	WINBOT voice prompts "Insufficient air pressure".	The wiping pad is not attached properly.	Remove the wiping pad and reattach. Make sure the wide and narrow sides of the wiping pad align with those of the holder.
		There are gaps or cracks on the window.	Do not use WINBOT on the surface with gaps.
		There are low obstacles on the window surface.	Manually cover the obstacles before using WINBOT.
3	WINBOT voice prompts "Stuck".	The Driving Wheel Tracks are stuck.	Check if there is any dust or debris on the driving wheel tracks. If so, clean them with tools. Then restart WINBOT for auto cleaning. If the problem persists, please contact customer service.
		There are low obstacles on the window surface.	WINBOT cannot detect obstacles or frames with a height lower than 2 mm. In this case, please go to the App and follow the instructions to help WINBOT out.
4	WINBOT does not spray water.	There is no cleaning solution in the water tank.	Please add the ECOVACS WINBOT cleaning solution in time.
		The auto-spraying function is turned off in the App.	Please go to the App and turn on the auto-spraying function.
		WINBOT is cleaning at a low water level.	If the auto-spraying function is on in the App and there is cleaning solution in the water tank, go to the App and follow the auto-spraying precautions to solve the problem. If the problem persists, please contact customer service.

NO.	Malfunction	Possible Causes	Solutions
5	WINBOT voice prompts "WINBOT encounters an obstacle".	The internal components are abnormal.	Firmly hold the compound cable and do not stand directly below WINBOT to prevent being injured by the falling WINBOT. Slowly drag WINBOT until it can be reached. Press and hold the START button for 2 seconds, and then remove WINBOT. Turn off WINBOT, disconnect the power, and then restart it. If the issue persists after restarting, please contact customer service.
6	WINBOT has not returned to the origin and cannot be removed.	There is an error in the algorithm.	Affected by the calculation accuracy, there may be a slight error. The normal error is less than 21cm. If the error of WINBOT returning to the origin is too large and it is inconvenient to retrieve WINBOT, please go to the App and remote control WINBOT to return to a position that is easy to remove.
		The remote control function was used after WINBOT was adhered, so WINBOT does not know the origin position.	Go to the App and use remote control to help WINBOT return to a position that is easy to remove.
7	WINBOT voice prompts "Please avoid the window corners."	When cleaning frameless glass, the adhering position of WINBOT is too close to the window frame.	Hold WINBOT's handle, press and hold WINBOT's START button for 2 seconds, and then remove and reattach WINBOT. It is recommended that the adhering position be more than 10 cm away from the window corners.

## 6. Technical Specifications

WINBOT Model	WG853-15	Power Adapter Model	BLJ66WB240275P-D
Rated Input	24V === 2.75A	Input:	100-240V~ 50-60Hz 2.0A
Rated Power	66W	Output:	24V === 2.75A
WINBOT dimensions (L x W x H mm)	215*215*55		
Off/Standby Mode Power	Less than 0.50W		
Frequency Bands	2400-2483.5 MHz		

Output power of the wireless module is less than 100 mW.

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

## 重要安全說明

使用本產品時，應始終遵循基本預防措施，包括以下內容：

使用本產品前請閱讀所有說明。

### 儲存這些說明

1. 本產品可供身體、感官或精神能力有缺陷或缺乏經驗和知識的人使用，前提是他們已接受有關以安全方式使用本產品的監督或指導，並了解所涉及的危險。兒童不得將本產品作遊戲用途。如果產品跌落、有明顯損壞跡象或漏水，則不應使用。通電時將產品放在兒童接觸不到的地方。
2. 請勿在極熱或極冷的環境（低於 0 °C/32 °F 或高於 40 °C/104 °F，高於 85% 濕度）使用和充電，否則可能會影響電池壽命。
3. 如果使用掛鉤將本產品正確拴在安全位置，在風平浪靜且沒有下雨或下雪，則可用於清潔外窗。
4. 使用前，請用掛鉤將安全繩鎖在堅固的室內欄杆上，並確保 WINBOT 穩固地固定在欄杆上。
5. 請勿在無人看管下使用產品。為防止因產品意外跌落而造成人身傷害或財產損失，請確保 WINBOT 工作區域下方沒有人、動物或貴重易碎物品。
6. 請勿在整個烈風風暴和 10 級強風中，或在海拔超過 2000 米（6562 英尺）的地區使用本產品。
7. 清潔時請確保產品已插入電源。本產品有一個安全電池，在使用過程中會充電。如果本產品插頭拔掉或停電，安全電池會為本產品供電。
8. 請勿在無人看管下將電源插入產品。
9. 只供家居使用（包括外窗）。請勿在商業或工業環境中使用本產品。
10. 請勿在破損或凹凸不平的玻璃上使用，例如貼有靜電貼紙的玻璃、廣告海報或凸起圖案，以免玻璃破裂或本產品掉落。請勿在有縫隙的表面上使用，例如一塊有縫隙或孔洞的玻璃，或兩塊相鄰的無框玻璃，它們之間有縫隙，以防止產品因安裝不良而掉落。
11. 僅使用製造商推薦或供應的配件。只能使用製造商提供的電源適配器。
12. 請確保您的電源電壓與電源適配器上標示的電源電壓相符。
13. 請勿在框架小於 5 毫米（0.2 英寸）的帶框玻璃上使用本產品。
14. 請勿在厚度小於 3 毫米（0.12 英寸）的玻璃或厚度小於 4 毫米（0.16 英寸）的鏡子上使用。







15. 請勿在手柄高度為 70~105 毫米 (2.76~4.13 英寸) 的玻璃或鏡子上使用。
16. 請勿在附有油脂的窗戶上使用本產品。
17. 在高濕度環境下使用時，清潔效能會受到影響。
18. 將產品存放在遠離熱源和易燃物料的地方。
19. 下雨時，請勿在外窗上使用本產品，以免損壞或跌落。
20. 如果產品不能牢固地固定在玻璃上或有明顯的損壞跡象，請勿使用。
21. 為減低觸電風險，請勿將本產品放入水或其他液體中。請勿將本產品放置或存放在可能掉落或被拉入浴缸或水槽的地方。
22. 請勿用濕手觸摸電源插頭。
23. 為本產品充電時，請勿將其放在其他產品上，並遠離火源和液體。
24. 注意切勿損壞電源線。請勿拉扯或搬運本產品，請勿將電源線用作把手，關上電源線上的窗戶，或將重物放在電源線上。保持電源線遠離熱表面。
25. 請勿在損壞的電源線或插座下使用。如果產品操作有異、跌落、損壞或與水接觸，請勿使用。為避免危險，必須由製造商或其服務代理進行維修。
26. 如果電源線損壞，必須由製造商或其服務代理更換，以免發生危險。
27. 在清潔或維護產品之前，必須從插座拔出插頭。請勿拉扯電源線以拔除電源適配器。
28. 為避免危險，安全電池必須由製造商或其服務代理進行更換。
29. 在處置產品之前，安全電池必須根據當地法律法規取出和棄置。
30. 在取出電池以處置產品之前，必須中斷產品與插座的連接。
31. 請根據當地法律法規處置廢舊電池。
32. 即使產品嚴重損壞，亦切勿焚燒產品。如遇上火災，電池可能會爆炸。
33. 必須按照本說明書中的指示使用產品。本公司不因使用不當造成的任何損害或傷害而承擔責任或負責。
34. 警告：為了令電池進行充電，只能使用隨產品提供的可拆卸式電源產品 BLJ66WB240275P-D。
35. 機械人包含只能由技術人員更換的電池。
36. 插頭和電源適配器必須在室內使用。
37. 如果 WINBOT 正在處理的中空玻璃漏水，請在清潔完成後立即將 WINBOT 拆下。
38. 清潔前，請觀察連接 WINBOT 的地方是否有細小的顆粒。如有顆粒，請移走或換到無顆粒的

地方，以免刮傷玻璃。

39. 即時清潔抹布，確保抹布上的細粒均清潔乾淨，以免刮傷玻璃。
40. 本產品只可與所提供的產品一起使用。
41. 通電或冷卻時將產品放在兒童接觸不到的地方。
42. 使用後必須拔掉本產品插頭，然後才能對本產品進行使用者維護。

為滿足射頻暴露要求，在裝置運作過程期間，本裝置與人員之間應保持 20 厘米或更遠的距離。

為確保合規性，建議不要在更近的距離內進作。用於此發射器的天線不得與任何其他天線或發射器放於同一位置。

	<b>Class II</b>
	一種防止短路及安全隔離的火牛
	開關模式電源
	僅供室內使用
	直流電
	交流電

關於歐盟國家

有關歐盟合規性聲明的資料，請瀏覽 <https://www.ecovacs.com/global/compliance>

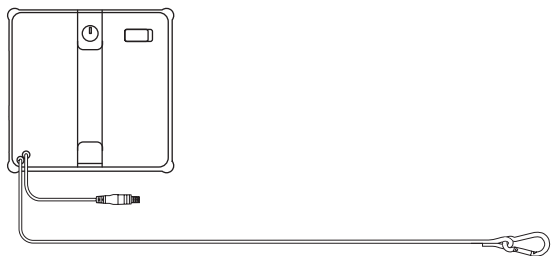


正確棄置本產品

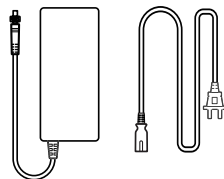
此標記表示本產品在歐盟各地均不應與其他家居垃圾一同棄置。為防止無節制的廢物處理可能對環境或人類健康造成危害，請負責任地回收廢物以促進材料資源的可持續循環再利用。如要回收你使用過的裝置，請使用退貨及回收系統或聯絡所購買產品的零售商。他們可以安全循環再造此類產品。

# 1. 產品目錄

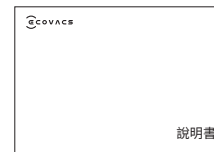
## 1.1 包裝內容



WINBOT + 安全繩



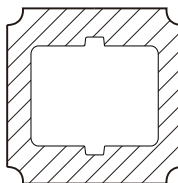
電源適配器 + 電源線



說明書



ECOVACS WINBOT 清潔液

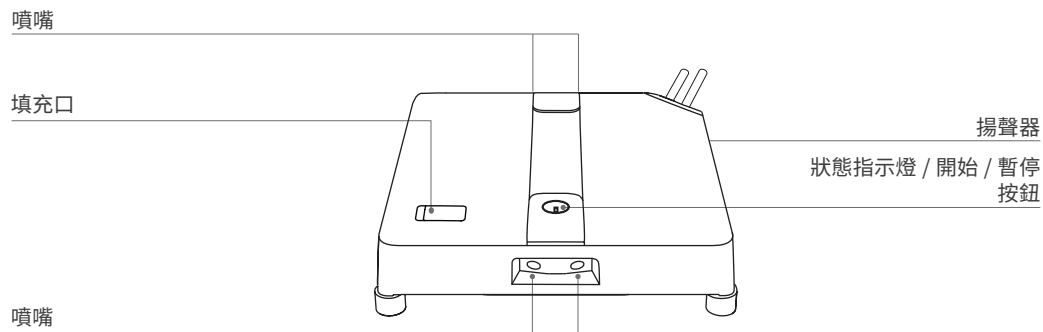


抹布

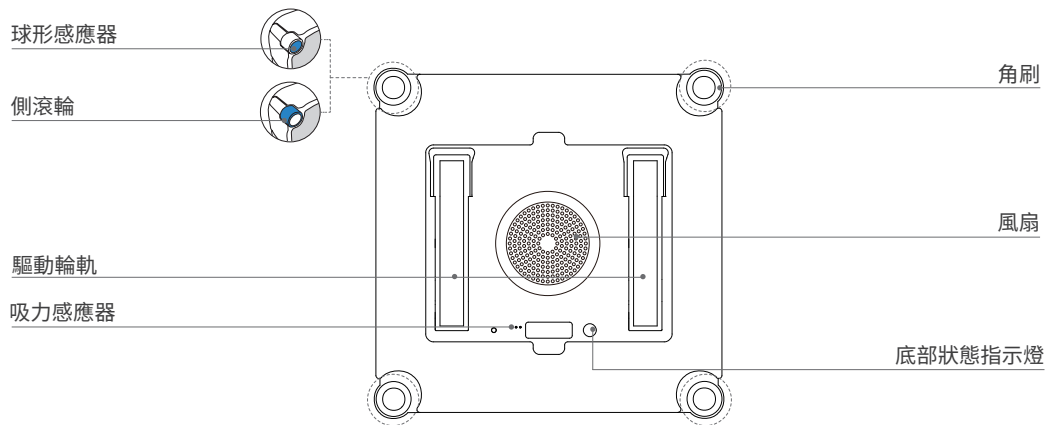
\* 圖片及說明僅供參考，可能與實際產品外觀有所不同。

## 1.2 產品圖

前視圖



俯視圖



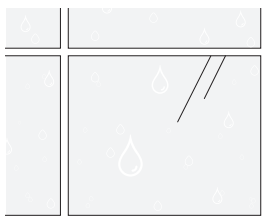
## 2. 快速開始

### 2.1 清潔前的注意事項

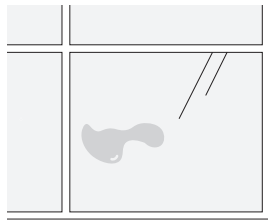
以下情況不建議使用 WINBOT：

- 1 請勿在有冷凝水或油漬的窗戶上或極冷或極熱的環境中使用 **WINBOT**。

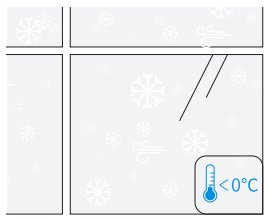
在以下情況下，WINBOT 可能會有移動困難。



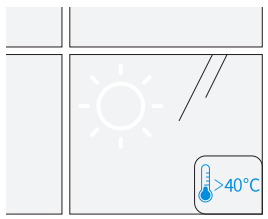
冷凝



油漬



攝氏 0 度以下

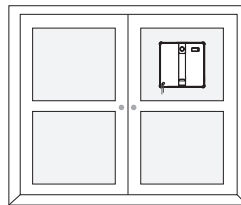


攝氏 40 度以上

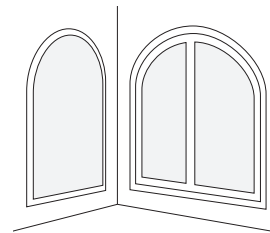
 WINBOT 在乾燥的表面及攝氏 0 °C 以上的溫度下表現更好。

- 2 請勿在過細或形狀不規則的窗戶上使用 **WINBOT**。

在以下情況下，WINBOT 無法四處移動。



小玻璃

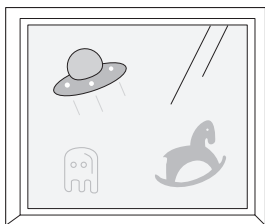


不規則形狀

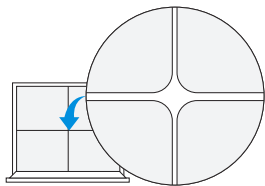
 WINBOT 在方形同大窗上表現得更好。

**3** 請勿在凹凸不平的窗戶上使用 **WINBOT**。

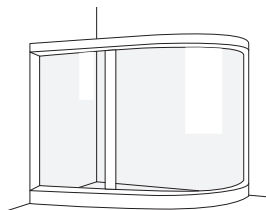
在以下情況下，WINBOT 可能會出現氣壓不足的情況。



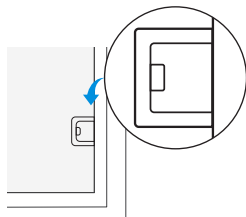
靜電窗貼及貼紙等。



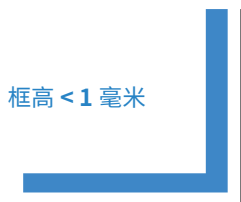
裂縫



曲面玻璃



障礙物高度 < 2 毫米

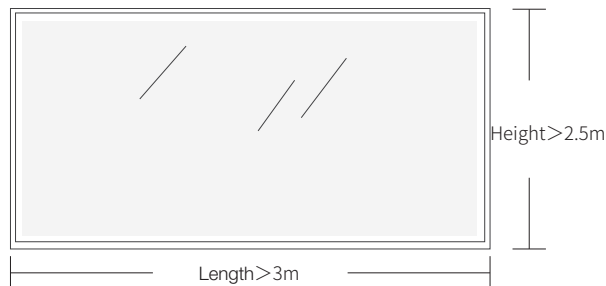


框高 < 1 毫米

框高 < 1 毫米

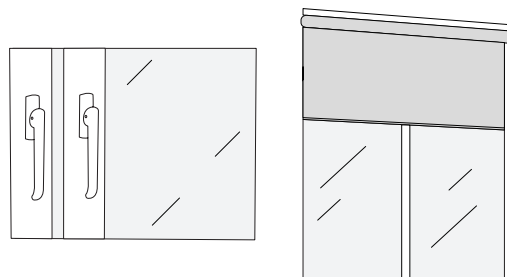
**4** 請勿在過大的窗戶上使用 **WINBOT**。


WINBOT 可能因為連接線的長度限制而無法完成工作。



**5** 請勿在接近 **WINBOT** 高度的狹窄縫隙附近使用 **WINBOT**。

當附近狹窄空間、窗戶把手 / 門把手 / 窗簾盒 / 櫥櫃之間的開口或縫隙以及牆壁 / 窗戶等表面接近其高度時，WINBOT 可能會卡住。

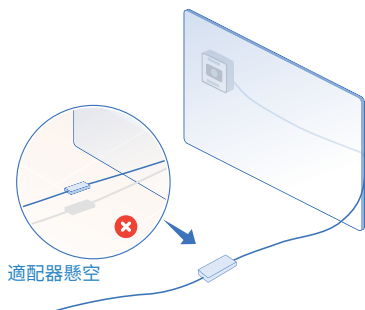


 嘗試將 **WINBOT** 放於縫隙之間，以確認安全通過；如果卡住，則請勿在此使用機器人，以免損壞機器人本身或四周的傢俬。

 **WINBOT** 在光滑平坦的表面上表現更好，確保吸力穩定，移動暢順。

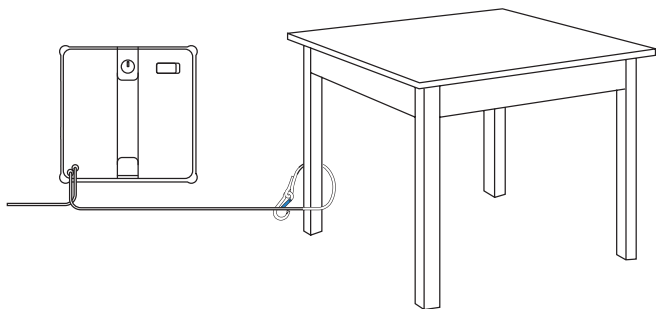
**6** 清潔大玻璃窗時，請勿將適配器懸浮在半空。

WINBOT 可能會因為長時間懸掛而跌落。所以，一定要將適配器放在地上。

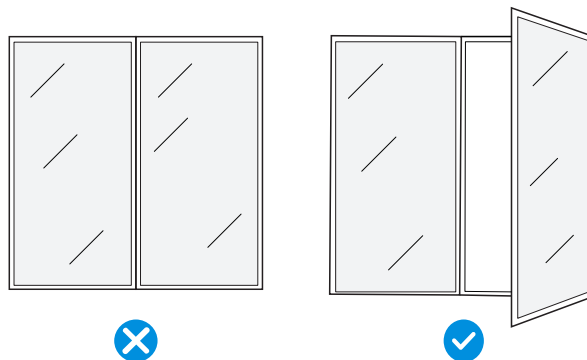


使用前，請確保 WINBOT 的掛鉤安裝正確，以免發生意外。

\* 安全繩及掛鉤是在出廠時預先安裝的。切勿隨意拆下



如要清潔玻璃面板門，請在安裝 WINBOT 前打開門，以免 WINBOT 因門縫狹窄而墜落。



## 2.2 使用前準備

### 1 裝上抹布

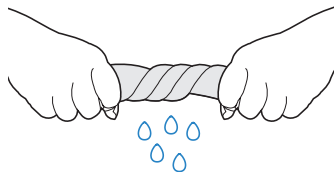
#### 1. 弄濕抹布

使用前，將抹布弄濕。



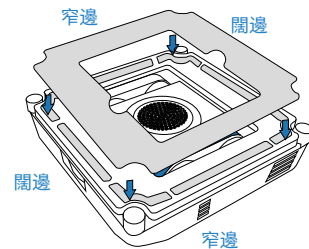
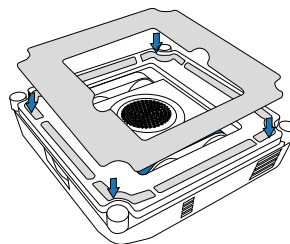
#### 2. 扭乾抹布

為保護 WINBOT，要盡量扭乾抹布，直至弄濕而不會滴水。



#### 3. 貼上抹布

將抹布墊貼在 WINBOT 底部的魔術貼上，確保窄邊同闊邊對齊。然後用力按壓，將抹布固定好。

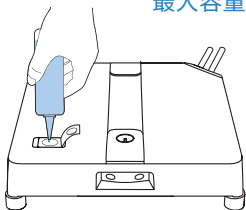


## 2 加入清潔液

將 ECOVACS WINBOT 清潔液加入水箱。水箱最大容量約為 50 毫升。  
在快速清潔中，一個滿滿的水箱可以噴灑大約 30 m<sup>2</sup>。

- \* 請勿加入過多清潔液而令水箱內的水溢出。
- \* 請勿使用純淨水及過濾水。
- \* 建議使用 ECOVACS WINBOT 清潔液，以獲得最佳清潔效果。使用 ECOVACS WINBOT 清潔液以外的任何清潔液可能會降低清潔效能或損壞產品。
- \* 如果 ECOVACS WINBOT 清潔液用完，可以暫時使用自來水。不過，ECOVACS WINBOT 清潔液的清潔效果會更好。

最大容量：50 毫升



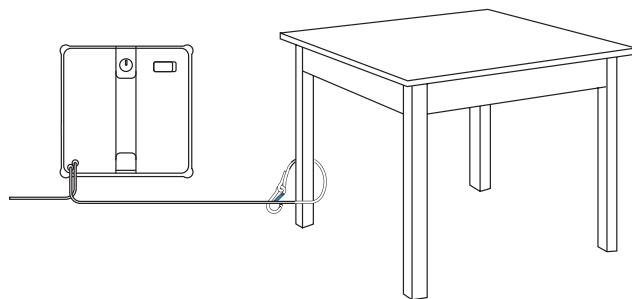
### 注意：

1. 請勿將手指伸入填充口。
2. 將機身及四個噴霧口上的水滴擦拭乾淨，以免影響正常運作。

## 3 固定安全繩同掛鈎

確保車站的掛鈎牢固地固定在穩定、不可移動的物體上，例如桌腳、椅腳、床腳、梳化腳、窗簾桿或樓梯扶手。鎖好掛鈎，如下圖，以免發生意外。

注意：請確保有人在附近留意 WINBOT 操作。請勿讓人或寵物站於 WINBOT 正下方，並確保清潔區以下沒有貴重物品或易碎物品。



為確保安全，使用前請務必固定好掛鈎。

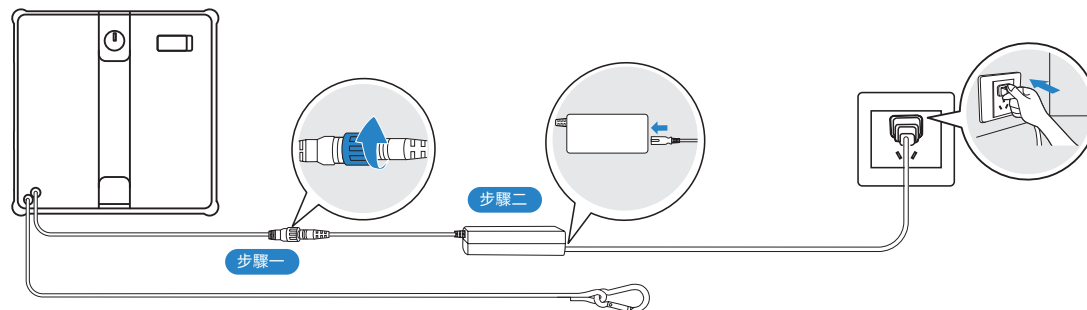
\* 建議將安全繩同掛鈎綁在牢固安全的金屬欄杆上。

#### 4 連接 WINBOT 的電源線、電源適配器及插頭

使用前請確保電池充滿電。充電時間約為 3 小時。

\* WINBOT 運作時請勿切斷電源，否則有跌下的危險。

\* 需特別注意的是，航空插頭需要牢固連接。



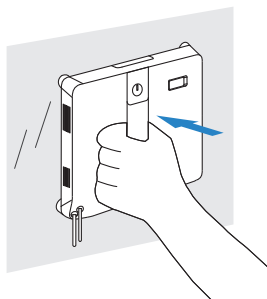
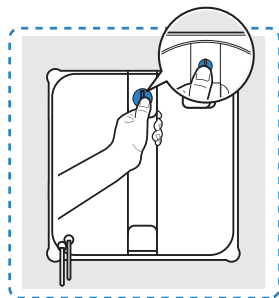
按照上面所示的順序正確連接。連接不當可能會導致充電異常或電池損壞。

## 2.3 開始

### 1 開始清潔

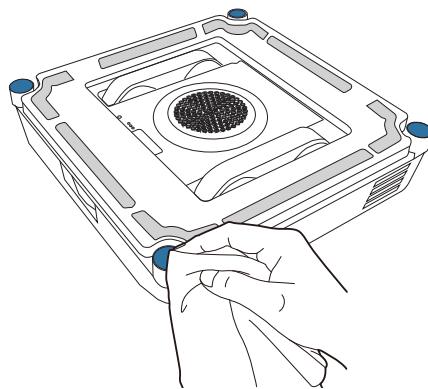
1. 清潔前，確保清潔面積大於 WINBOT 的尺寸，然後貼在窗戶上。
2. 接上電源，長按 WINBOT 啟動鍵 2 秒。
3. 聽到風扇啟動後，將 WINBOT 的底部（有抹布的一面）放在玻璃上。WINBOT 會自動貼住窗戶，然後開始清潔。

- \* 清潔無框玻璃時，請勿將 WINBOT 貼得太靠近邊緣。建議離邊緣 10 厘米以上。
- \* WINBOT 只可以清潔平坦的表面。請確保玻璃厚度不少於 3 毫米。
- \* 開機後請勿將風扇靠近頭髮和其他小物件，以免堵塞風扇。
- \* 清潔前請擦乾噴嘴的水滴。
- \* 請勿在 WINBOT 清潔時站在 WINBOT 下或附近。



### 2 清潔期間保養

對於大面積的彩色玻璃，請根據需要清洗或更換抹布同角刷，然後反複抹拭。同時，確保定期清潔 4 個球形感應器，以獲得最佳清潔效能。

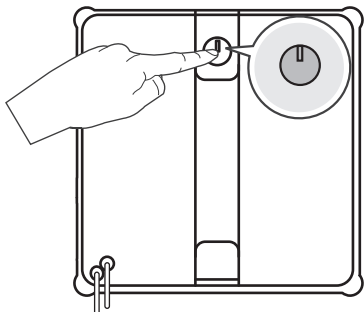


- \* 即時清潔抹布及角刷，確保抹布及角刷上的細粒均清潔乾淨，以免刮傷玻璃。

## 2.4 完成


### 暫停

清潔時，按下  WINBOT 上的，或透過 App 暫停。

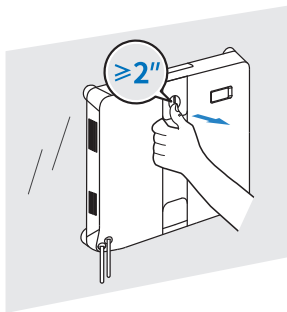


### 移除 WINBOT

清潔完成後，WINBOT 會回到起始位置並發出嗶嗶聲。請握緊手柄**長按**

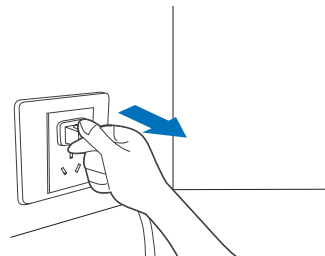
 **持續 2 秒**，待風扇停止後將其取出。

\* 清潔後請倒出清潔液。



### 關機

關閉電源以關機



### 解開安全繩



## 2.5 進階功能

下載 ECOVACS HOME App，解鎖更多 WINBOT 功能。

### a. 多種清潔模式

徹底清潔：鋸齒形 /N 形清潔 + 順時針清潔所有四個邊緣。

快速清潔：鋸齒形 /N 形清潔。

局部清潔：重複擦拭以去除局部灰塵。

深層清潔：兩輪鋸齒形 /N 形清潔。

邊緣清潔：順時針方向清潔所有四個邊緣。

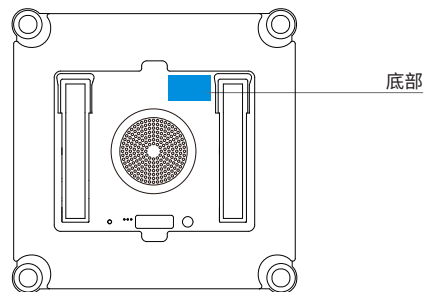
### b. 故障排除

如果 WINBOT 觸發警報，毋須驚慌。請瀏覽 App 以獲取詳細的故障排除指南。

### c. 遙距控制

利用 App 控制 WINBOT。功能包括：內外窗景觀、局部清潔和手動噴水。

選項一：掃描 WINBOT 上的 QR 碼下載 App。



選項二：掃描 QR 碼或在 App Store 內搜尋並下載 ECOVACS HOME App。



注意：安裝完成後，請按照 App 的指引完成註冊、登入和網路連線。

### 3. 零件保養

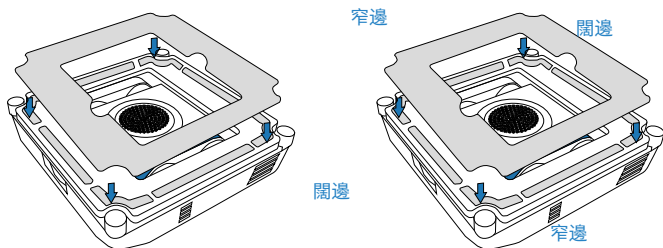
#### 抹布

##### a. 更換抹布

取下骯髒的抹布墊，然後將一個新的抹布平放在 WINBOT 底部的抹布支架內。

確保抹布的凹槽同 WINBOT 底部的藍色標記相對應。將抹布按壓並平滑，以確保牢固貼合。確保抹布的寬邊同窄邊同支架的邊對齊。

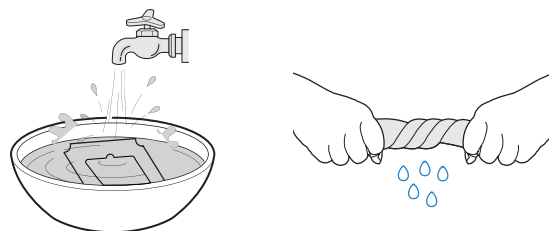
請小心別將抹布貼在支架外，以免影響 WINBOT 的運作。



\* 如果抹布架上的魔術貼有灰塵，請用清潔刷清除灰塵。請勿用水清洗，以免 WINBOT 底部入水而造成損壞。

##### b. 清洗抹布

移除抹布。使用自來水清洗、扭乾抹布，直至抹布不再滴水為止。

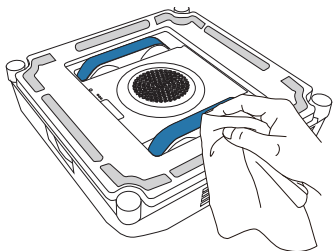


\* 定期清潔抹布，以延長其使用壽命。如果抹布磨損或不再牢固地貼在魔術貼上，請更換新的，以達到最佳清潔效果。

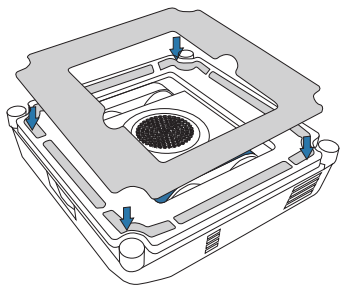
\* 在 ECOVACS HOMEApp 或 <https://www.ecovacs.com/global>。

## 驅動輪軌

清潔前，請確保風扇沒有運轉。使用 ECOVACS HOME App 遙距控制 WINBOT 並檢查驅動輪軌。如果發現有污垢，請暫停驅動輪軌的操作。然後用乾淨的布抹乾淨路軌。

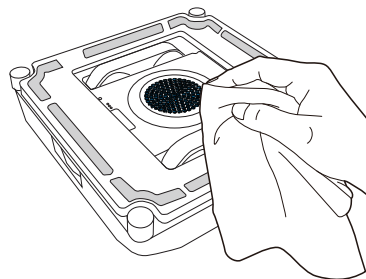


清潔完驅動輪軌後，安裝抹布並繼續清潔工作。

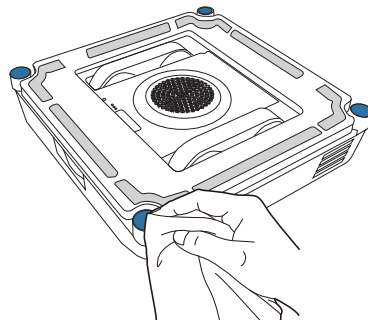


## 底部零件

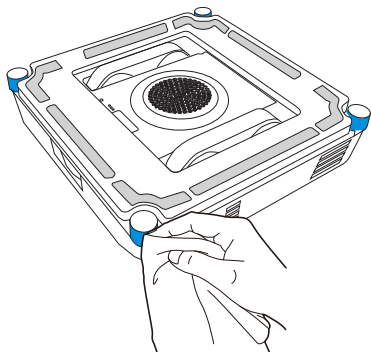
風扇：用乾布擦拭乾淨，以免損壞 WINBOT 的吸力。



球形感應器：用乾布擦拭乾淨，以保持其靈敏度。



角刷及側滾輪：清潔完成後，使用濕布清潔角刷及側滾輪，以確保最佳的清潔效能。



\* WINBOT 發出低電量警告後，請確保 WINBOT 已充滿電後再使用或存放，以免縮短電池壽命。

\* 如果 WINBOT 長時間不使用，請充滿電，關機，妥善存放。為防止電池因過度放電而損壞和充電失敗，請至少每六個月充電一次。

## 4. 狀態指示燈

指示	燈光效果	指示燈效果說明
START 按鈕 / 底部狀態指示燈	純藍色	WINBOT 處於待命或運作中。
	紅色閃爍燈	故障。WINBOT 無法正常運作。
適配器狀態指示燈	純綠	WINBOT 使用低電流，例如，在待機模式下。
	實心紅	充電站會使用高電流，例如，在充電模式下。

## 5. 故障排除

### 5.1 問題解決

編號	故障	可能成因	解決方案
1	WINBOT 滑倒，例如側身滑動或機身顫動。	抹布過濕	請參閱本說明書中的 [ 零件維護 ] 更換抹布。
		WINBOT 擦拭不建議清潔的污漬，例如油漬。	請參閱本說明書中的 [ 零件保養 ] 來清潔驅動輪軌。
2	WINBOT 語音提示「氣壓不足」。	抹布未裝好	取下抹布並重新安裝。確保抹布的寬邊同窄邊同支架的邊對齊。
		窗戶上有縫隙或裂縫。	請勿在有縫隙的表面使用 WINBOT。
		窗上有較矮的障礙物。	使用 WINBOT 前先手動遮住障礙物。
3	WINBOT 語音提示「卡住」。	驅動輪軌卡住。	檢查驅動輪軌上是否有灰塵或碎屑。如有，請使用工具清潔。然後重新啟動 WINBOT 進行自動清潔。如果問題仍然存在，請聯絡客戶服務部。
		窗上有較矮的障礙物。	WINBOT 無法偵測障礙物或高度低於 2 毫米的框架。在此情況下，請前往 App，按照指示為 WINBOT 離開。
4	WINBOT 不會噴水。	水箱內沒有清潔液。	請即時加入 ECOVACS WINBOT 清潔液。
		自動噴灑功能可在 App 內關閉。	請前往 App，開啟自動噴灑功能。
		WINBOT 在低水位下清洗。	如果已在 App 內開啟自動噴水功能，而水箱內已有清潔液，則可前往 App，然後跟從自動噴水注意事項便可以解決問題。如果問題仍然存在，請聯絡客戶服務部。

編號	故障	可能成因	解決方案
5	WINBOT 語音提示「WINBOT 遇到障礙物」。	內部零件有異。	牢牢握住複合電纜，不要站在 WINBOT 正下方，以免被墜落的 WINBOT 弄傷。慢慢拖動 WINBOT，直至可以到達為止。按住 START 鍵 2 秒，然後取出 WINBOT。關掉 WINBOT，中斷電源，然後重新啟動。如果重新啟動後問題仍然存在，請聯絡客戶服務部。
6	WINBOT 未返回原點，無法移除。	算法出錯。	受計算準確度影響，可能會有些微誤差。正常誤差小於 21 厘米。如果 WINBOT 返回原點的誤差太大，不便找回 WINBOT，請到 App 遙距控制 WINBOT 返回一個容易移除的位置。
		遙控功能是在 WINBOT 貼上後使用的，所以 WINBOT 不知道原點位置。	進入 App，用遙距控制器幫助 WINBOT 回到一個容易移除的位置。
7	WINBOT 語音提示「請避開窗角」。	清潔無框玻璃時，WINBOT 的黏附位置太靠近窗框。	按住 WINBOT 的手柄，按住 WINBOT 的 START 鍵 2 秒，然後取下並重新連接 WINBOT。建議貼合位置離窗角 10 厘米以上。

## 6. 技術規格

WINBOT 模型	WG853-15	電源適配器型號	BLJ66WB240275P-D
額定輸入值	24 V === 2.75 A	輸入值：	100-240 V ~ 50-60 Hz 2.0 A
額定功率	66 W	輸出值：	24 V === 2.75 A
WINBOT 大小 (長 × 寬 × 高「毫米」)	215*215*55		
關閉 / 待機模式電源	小於 0.50 W		
頻帶	2400-2483.5 MHz		

無線模組的輸出功率小於 100 mW。

**注意：**為了不斷改進產品，技術和設計規範可能會發生變化。

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