



# WINBOT<sup>™</sup> X

## Instruction Manual

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Live Smart. Enjoy Life.

Congratulations on the purchase of your ECOVACS ROBOTICS WINBOT! We hope it brings you many years of satisfaction. We trust the purchase of your new robot will help keep your home clean and provide you with more quality time to do other things.

Before you go any further, please register your product on the ECOVACS ROBOTICS website at [www.ecovacsrobotics.com/registration/](http://www.ecovacsrobotics.com/registration/). We also suggest you record your model number, serial number, date of purchase and attach your receipt to this page for safekeeping.

MODEL # \_\_\_\_\_

SERIAL # \_\_\_\_\_

DATE OF PURCHASE \_\_\_\_/\_\_\_\_/\_\_\_\_

Should you have any problems programming the robot or getting your robot to function properly, please call us before contacting or returning it to the place of purchase. Call toll free number 1-844-ECOVACS (1-844-326-8227) or 1-330-994-1760 from outside the United States of America and Canada for assistance.

***Thank you for choosing WINBOT!***

# Contents

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1. Important Safety Instructions.....	4
2. Package Contents and Technical Specifications.....	6
3. Operating WINBOT.....	10
4. Maintenance.....	19
5. Status Indicator Light and Sounds.....	23
6. Troubleshooting.....	24

# 1. Important Safety Instructions

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## 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 is not intended to be used by children under 8 or anyone lacking knowledge on proper use. Supervision may be necessary. Do not allow children to play with the Appliance.
2. Do not use the Appliance in extremely hot, cold or humid environments (below 0°C/32°F, above 40°C/104°F, above 65% humidity). The Appliance can be used to clean outside windows if it is properly tethered to the Safety Pod, winds are calm, and it is not raining or snowing.
3. Do not leave the Appliance unattended when it is working.
4. For household use ONLY. Do not use the Appliance in commercial or industrial environments.
5. Do not use the Appliance on cracked glass, or glass with posters attached or raised dots on it.
6. Only use the Appliance as instructed by the instruction manual. Only use accessories recommended or supplied by the manufacturer. Only use the Rechargeable Battery and Power Adapter supplied by the manufacturer.
7. Please make sure your power supply voltage matches the power voltage marked on the Power Adapter.
8. Do not use the Appliance on a framed window with a frame smaller than 5mm (0.2 inches).
9. Do not use the Appliance on wet or greasy windows.
10. Store the Appliance away from heat and flammable materials.
11. Do not use the Appliance if it does not firmly attach to the glass or has visible signs of damage.
12. 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.
13. Do not touch power plug or the Appliance with wet hands.
14. Do not charge the Appliance in extremely hot or cold environments, or it may affect battery life span.
15. When charging the Appliance, do not place it on other electrical appliances and keep it away from fire and liquid.
16. 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, or put heavy weights on the power cord. Keep power cord away from hot surfaces.
17. 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.
18. If the supply cord is damaged, it must be replaced by the manufacturer or its service agent in order to avoid a hazard.
19. The plug must be removed from the receptacle before cleaning or maintaining the Appliance.
20. Do not unplug the Power Adapter by pulling on the power cord.
21. The Battery must be replaced by the manufacturer or its service agent in order to avoid a hazard.
22. The Battery must be removed and discarded according to local laws and regulations before disposal of the Appliance.

# 1. Important Safety Instructions

23. The Appliance must be disconnected from the receptacle before removing the battery for disposal of the Appliance.
24. Please dispose of used batteries according to local laws and regulations.
25. Do not incinerate the Appliance even if it is severely damaged. The battery can explode in a fire.
26. The Appliance must be used in accordance with the directions in this Instruction Manual. The manufacturer cannot be held liable or responsible for any damages or injuries caused by improper use.

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

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

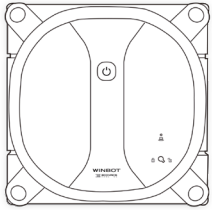
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

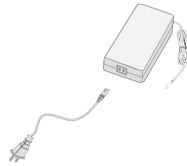
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## 2. Package Contents and Technical Specifications

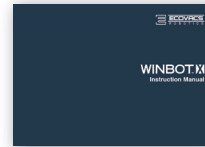
### 2.1 Package Contents



WINBOT



Power Adapter



Instruction Manual

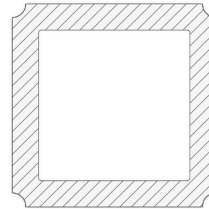
Quick Start Guide



Safety Pod with Batteries



Remote Control with Batteries



Cleaning Pads \* 4



WINBOT Cleaning Solution

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

## 2. Package Contents and Technical Specifications

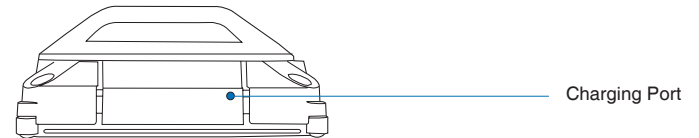
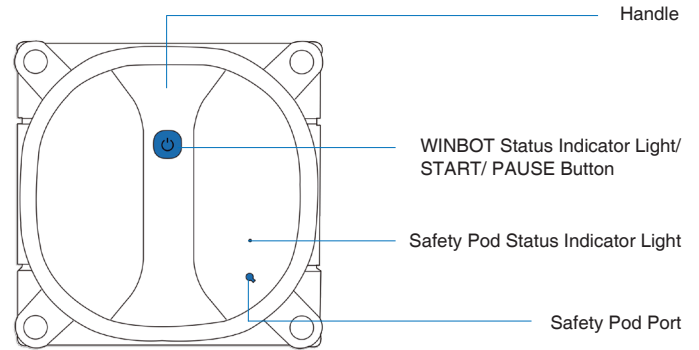
### 2.2 Specifications

Model	WA30		
Working voltage	22.2V DC	Rated power	60W
Remote Control			
Rated output voltage	3V DC		
Power Adapter	OH-1048A2701700U1-U		
Input	100-240V AC, 50/60Hz, 1.5A	Output	27V DC, 1.7A

**Note:** Technical and design specifications may be changed in the course of continuous product improvement.

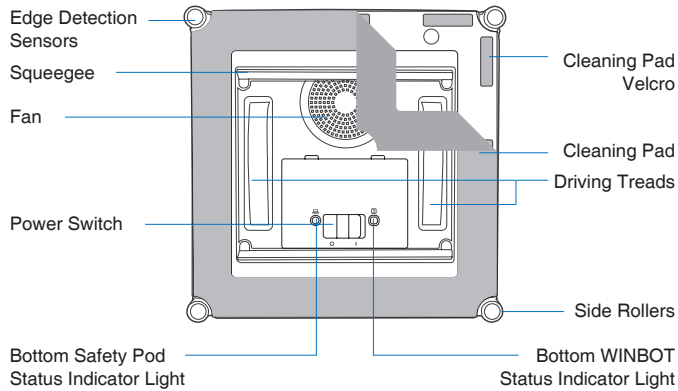
### 2.3 Product Diagram

#### WINBOT

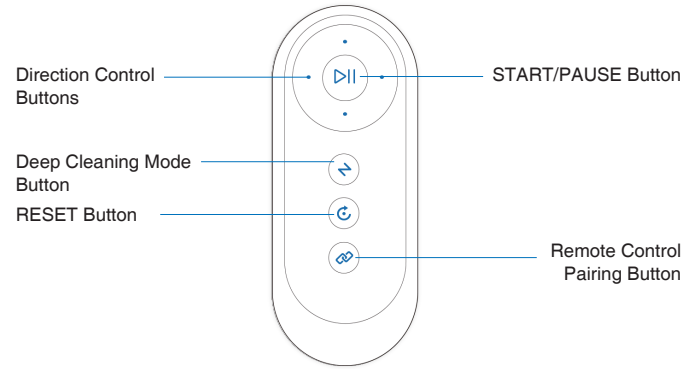


## 2. Package Contents and Technical Specifications

### WINBOT



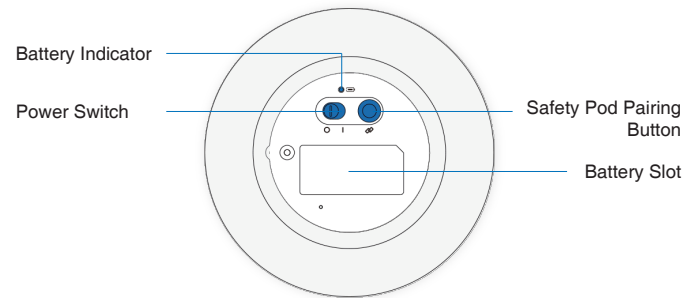
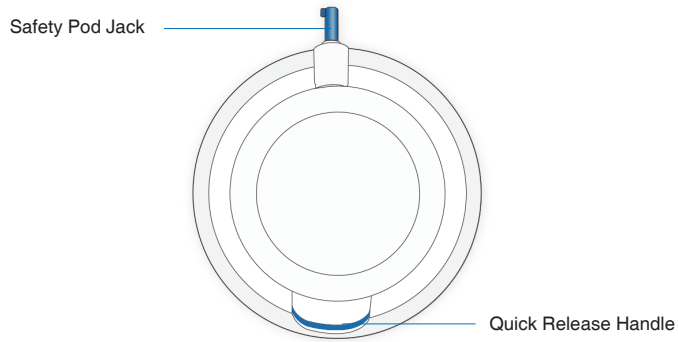
### Remote Control





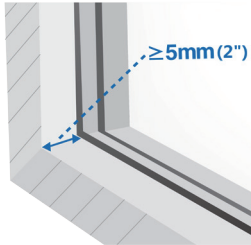
## 2. Package Contents and Technical Specifications

### Safety Pod

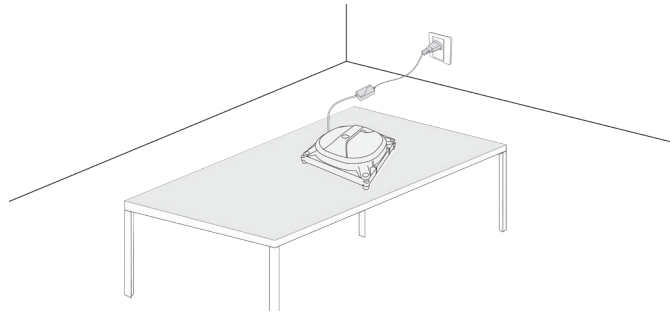


# 3. Operating and Programming

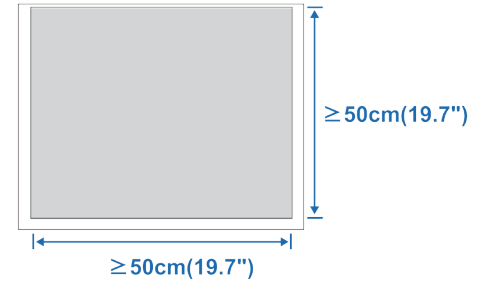
## 3.1 Notes Before Cleaning



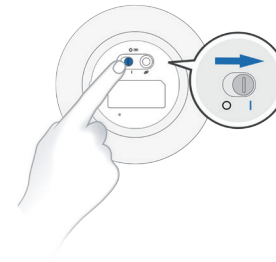
Do not use WINBOT on a framed window with a frame smaller than 5mm (0.2").



If WINBOT's Status Indicator Light flashes RED, the battery requires charging.

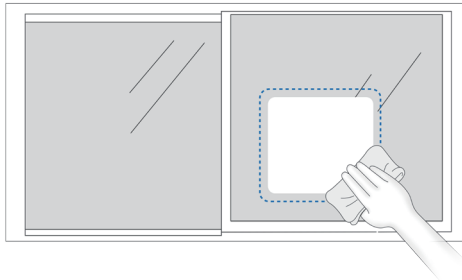


WINBOT can clean framed or frameless glass, larger than 50cm x 50cm (19.7" x 19.7").

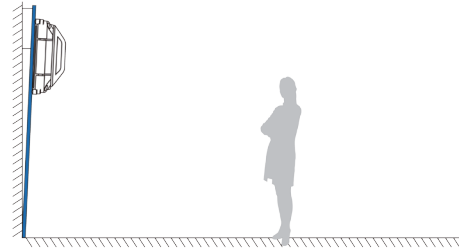


If the Battery Pod's Battery Indicator Light flashes RED, the battery power is low, and the Safety Pod cannot work. Please change the battery.

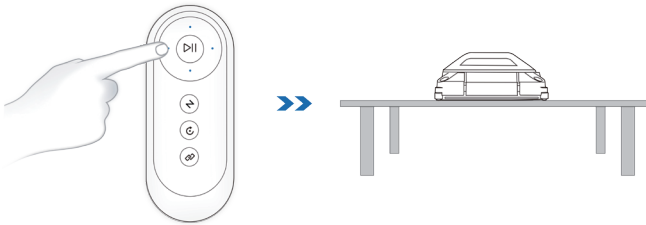
### 3. Operating and Programming



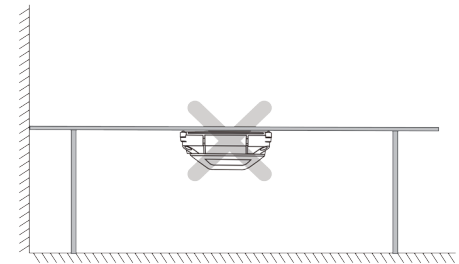
If the window is covered with dirt, clean a small area on the glass before use and place WINBOT there.



WINBOT can clean glass mounted at an angle but may not operate normally; in such a case, a person should be in the vicinity to assist should there be a problem.



WINBOT can clean horizontally mounted glass but only when using the Direction Control Buttons on the Remote Control. Keep the Safety Pod firmly attached to the glass.



Do not use WINBOT upside down.

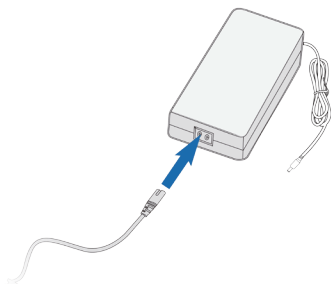
WINBOT is intended to be used for maintenance cleaning on common windows. The product is not designed to replace heavy-duty or cleaning windows with heavy dust for the first time.

Please refer to the glass manufacturer's care and cleaning instructions before using WINBOT on glass with an uneven surface, such as frosted, textured, patterned, or coated glass. The manufacturer cannot be responsible for damage due to improper use on these surfaces.

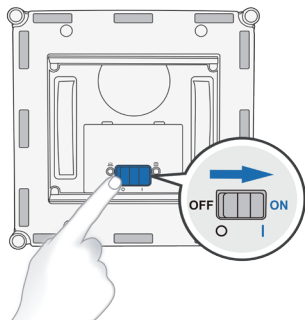
# 3. Operating and Programming

## 3.2 Using WINBOT

### 1 Assemble Power Adapter

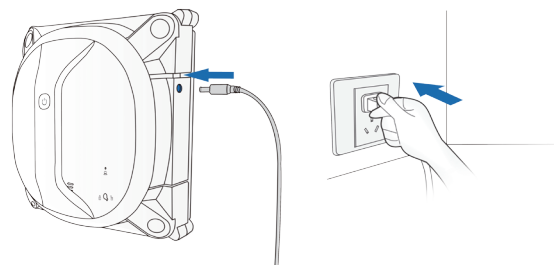


### 2 Power ON



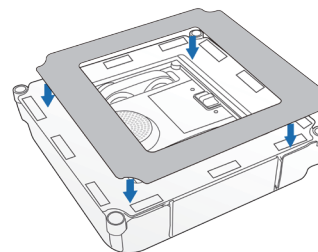
**Note:** Keep objects away from WINBOT's Fan to avoid blockage.

### 3 Charge WINBOT



**Note:** When WINBOT is charging, the Status Indicator Light flashes BLUE. When WINBOT is fully charged, WINBOT glows a continuous BLUE and then goes out.

### 4 Attach the Cleaning Pad

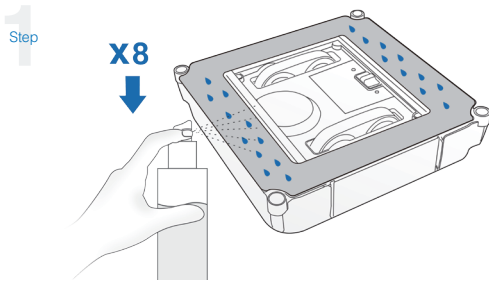


**Note:** Make sure the white side of the Cleaning Pad attaches to the Velcro. Make sure the Cleaning Pad does not cover the Squeegee or Edge Detection Sensors. The Cleaning Pad is not completely square and if attached improperly, covers part of the Squeegees.

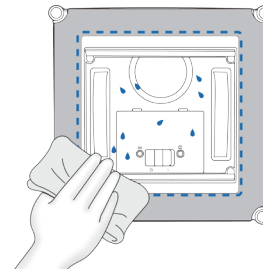
## 3. Operating and Programming

### 5 Spray Cleaning Solution

**Note:** It is recommended to use WINBOT with WINBOT Cleaning Solution from ECOVACS. Using tap water or other cleaners could have an adverse effect on cleaning performance. Using other cleaning solutions could potentially nullify the warranty.



2 Step After spraying, wipe the bottom of WINBOT with a dry cloth.

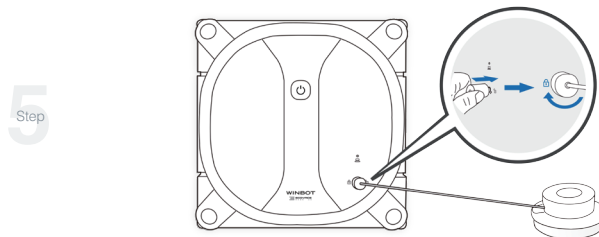
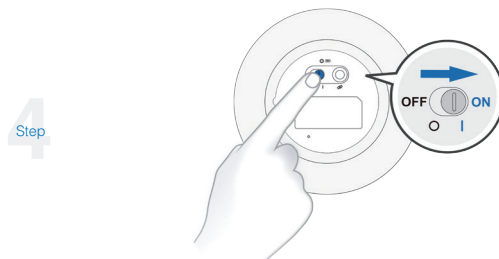
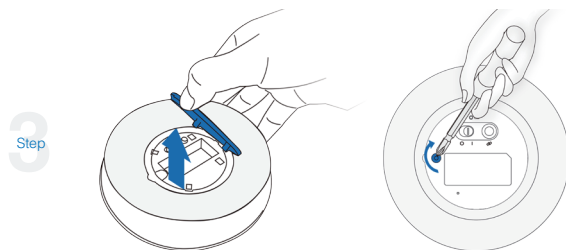
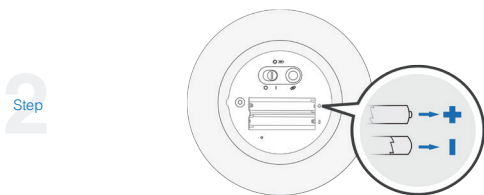
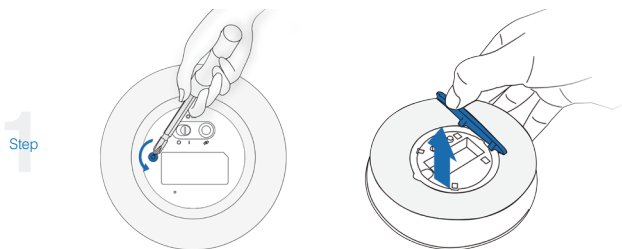


**Note:** The spray volume can be subject to the condition of dirt.

# 3. Operating and Programming

**Warning:** When using WINBOT to clean windows, Safety Pod must be used to guarantee the safety function of WINBOT.

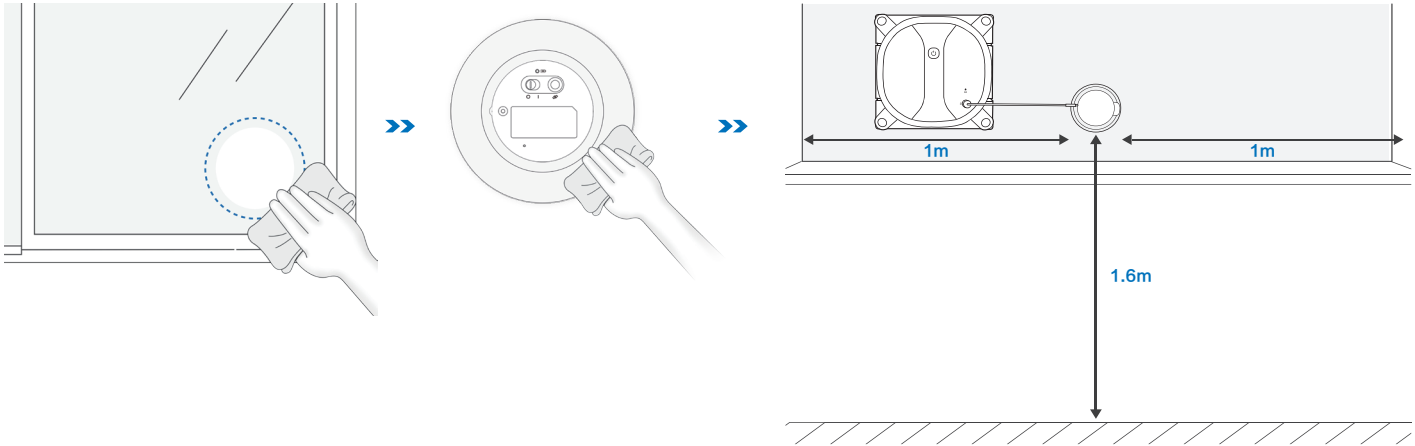
## 6 Attach the Safety Pod



### 3. Operating and Programming

#### 7 Start Cleaning

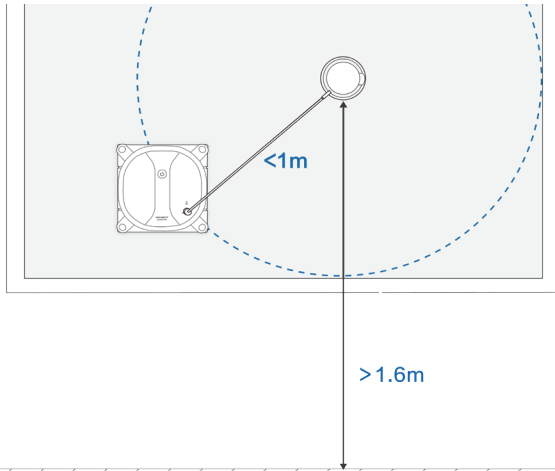
1  
Step



## 3. Operating and Programming

2  
Step

Make sure Safety Pod is attached at least 1.6 meters above ground, and the robot is suggested to be placed within an 1-meter radius of Safety Pod.



**Note:** The Fan does not start until Safety Pod is firmly pressed on the glass and keep it away from hair or any debris..

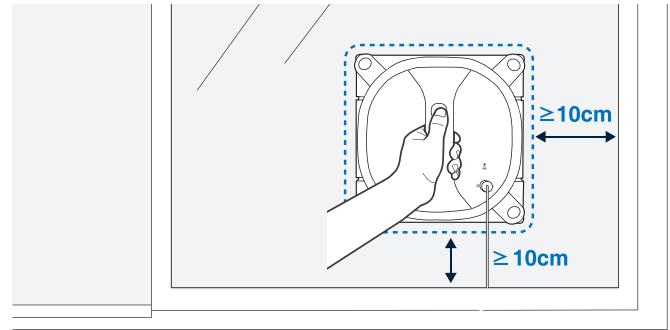
**Warning:** If WINBOT is being used to clean an inside or outside window, ALWAYS press Safety Pod FIRMLY on the INSIDE window.

Make sure the Safety Pod is attached and securely in place.

The length of the Safety Pod line is 2.5m.

It is suggested to place the Safety Pod on the top corner of the window to ensure 1.6m above ground if the window is smaller.

3  
Step



**Note:** WINBOT has successfully attached to the window when the WINBOT Status Indicator Light glows a continuous BLUE and beeps.

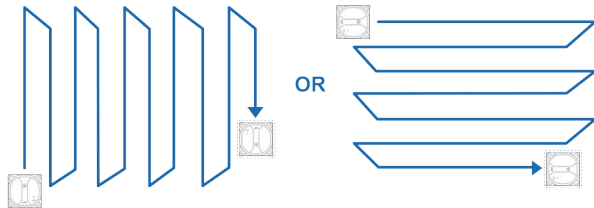
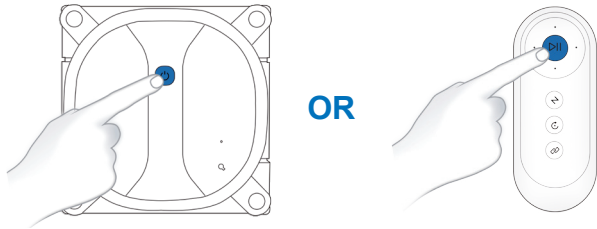
**Note:** Please ensure there is a 15cm (5.9") clearance between the glass and obstacles in the room like curtains or furniture.



# 3. Operating and Programming

## 4 Step AUTO Cleaning Mode

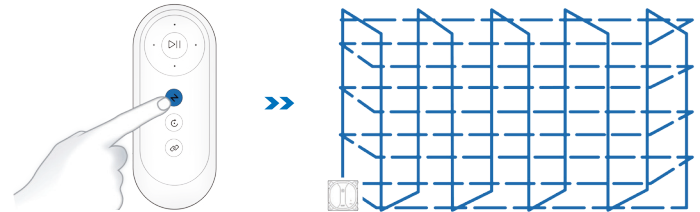
This is the most commonly used mode and is good for regular cleaning.



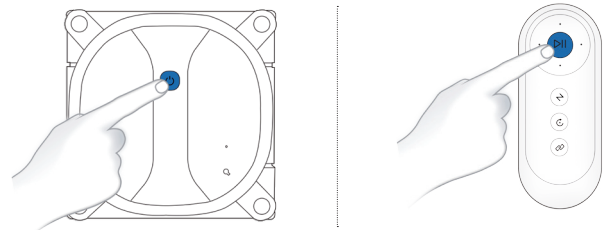
**Note:** WINBOT automatically chooses the suitable cleaning path in “N” or “Z” Cleaning Mode depending on the shape of the window.

## Deep Cleaning Mode

This mode is applicable for glass of more concentrated dirt or dust.



## 9 Pause



**Note:** Direct WINBOT to move using the Direction Control Buttons on the Remote Control when Paused. WINBOT cleans when the Direction Control Buttons are used.

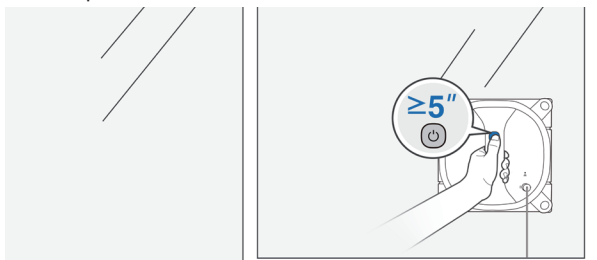
**Note:** Avoid moving WINBOT manually when it is cleaning or paused to ensure cleaning efficiency.

## 3. Operating and Programming

### 10 Step

When WINBOT completes its cleaning cycle, it returns to the place it started and beeps.

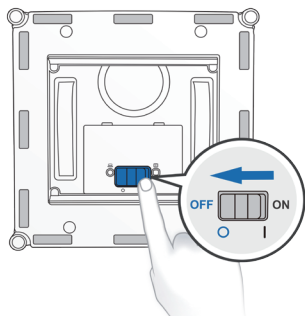
1 Step



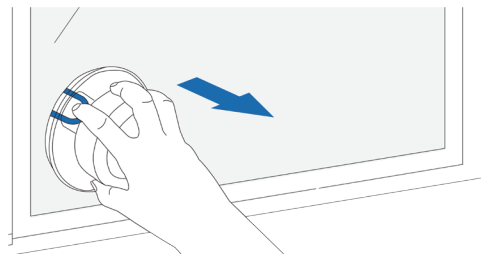
**Note:** Remove WINBOT from the window after the fan stops working.

Polish away any marks left on the glass from the robot's removal with a dry cloth. If you want to stop the WINBOT during cleaning, please first press Start/Pause Button once to pause WINBOT and then press and hold this button for more than 5 seconds to remove WINBOT.

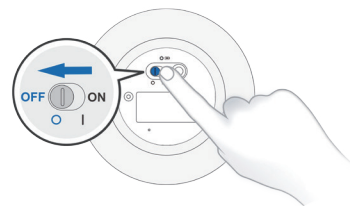
2 Step



3 Step



4 Step

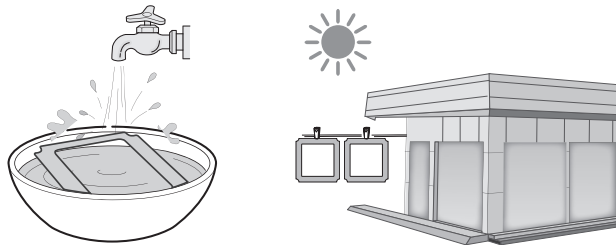


**Note:** If WINBOT has a problem and the indicator Light flashes RED, it can be reset by pressing the RESET Button on the Remote Control. See "Troubleshooting" for details.

## 4. Maintenance

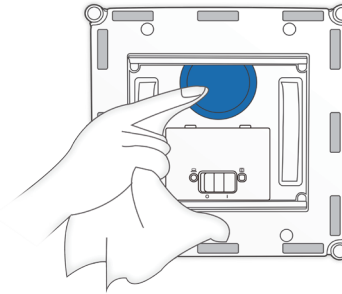
Before performing cleaning and maintenance on WINBOT, Power OFF WINBOT and disconnect it from the Power Adapter.

### 4.1 Cleaning Pad

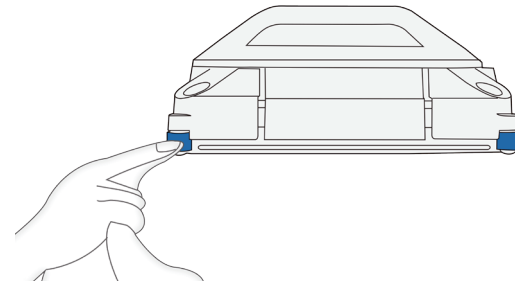


### 4.2 Fan, Sensors and Squeegee

#### Fan



#### Side Rollers



Wash with mild detergent .

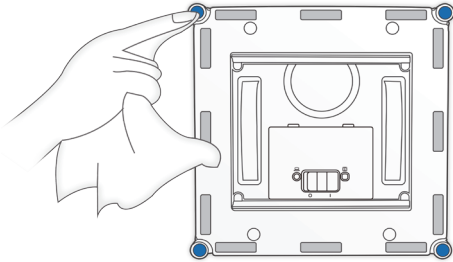
Do NOT use a wet Cleaning Pad on WINBOT or it may slip on the window.

Washing the Cleaning Pad regularly can extend its service life.

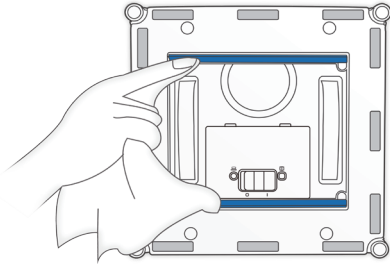
If the Cleaning Pad becomes worn or no longer fits exactly within the Velcro area, replace it with a new one to achieve best cleaning performance.

# 4. Maintenance

## Edge Detection Sensors

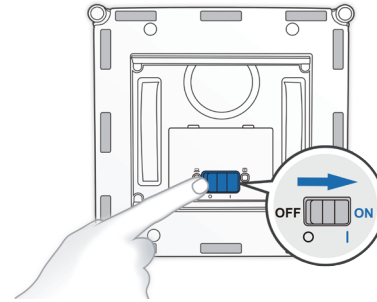


## Squeegee



## 4.3 Driving Treads

1 Step



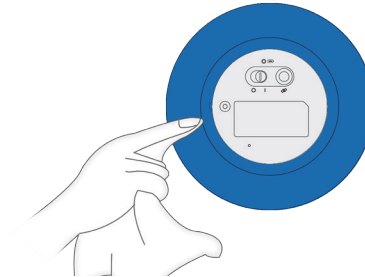
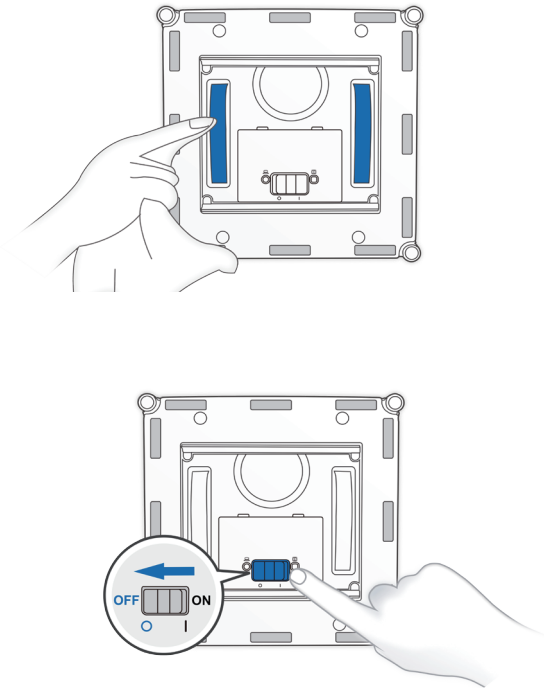
2 Step

Inspect the Driving Treads by using the Direction Control buttons on the Remote Control. Stop the Driving Treads if dirt is seen on the Treads.



4  
Step

### 4.4 Safety Pod



**Note:** Remove the Safety Pod's battery if the robot will not be used for a long time. In case of battery leakage, please remove the battery and dispose of it according to local laws and regulations.

## 4. Maintenance

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### 4.5 Regular Maintenance

To keep WINBOT running at peak performance, perform the maintenance and replacement according to the following frequency.

Robot	Robot Part	Maintenance Frequency	Replacement Frequency
WINBOT	Cleaning Pad	After each use	Every 40 washings
	Fan	After each use	/
	Side Rollers		
	Edge Detection Sensors		
	Squeegees		
	Driving Treads		

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

## 5. Status Indicator Light and Sounds

	Indicator	Description
WINBOT	WINBOT Status Indicator Light flashes BLUE	<ol style="list-style-type: none"> <li>1. WINBOT is charging.</li> <li>2. WINBOT has been paired with Safety Pod already and ready to be placed on the glass.</li> </ol>
	WINBOT Status Indicator Light glows a continuous BLUE	<ol style="list-style-type: none"> <li>1. WINBOT has successfully adhered itself to the glass and is ready to clean.</li> <li>2. The Safety Pod is in preparation.</li> </ol>
	WINBOT Status Indicator Light flashes RED	The robot's battery is low. Charge WINBOT as described in Section 3.2.
	WINBOT Status Indicator Light glows a continuous RED	Please refer to Section 6, Troubleshooting, for details.
	Safety Pod Status Indicator Light flashes GREEN	<p>The Safety Pod is not prepared to be pressed onto the glass:</p> <ol style="list-style-type: none"> <li>1.The Safety Pod Jack is not inserted into WINBOT.</li> <li>2.The Safety Pod is not paired with WINBOT.</li> <li>3.The Safety Pod is not attached to the glass safely and firmly.</li> <li>4.The Safety Pod is pairing with WINBOT.</li> </ol>
	Safety Pod Status Indicator Light glows a continuous GREEN	The Safety Pod is working normally. WINBOT can start working.
	Safety Pod Status Indicator Light flashes RED	The Safety Pod's battery is low. Replace the battery as described in Section 3.2.
	Safety Pod Status Indicator Light glows a continuous RED	Please refer to Section 6, Troubleshooting, for details.
Safety Pod	Battery Indicator glows a continuous GREEN	The Safety Pod's battery is sufficient.
	Battery Indicator flashes RED	The Safety Pod's battery is low. Please replace the battery as described in Section 3.2.

## 6. Troubleshooting

No.	Malfunction	Possible Causes	Solutions
1	The robot's fan does not work	Safety Pod malfunction	Check the Safety Pod Status Indicator Light on the WINBOT, and refer to Section 5 for details.
2	Remote Control does not work	When WINBOT is cleaning, only the START/PAUSE Button works on the Remote Control.	Pause WINBOT by pressing the START/PAUSE button on the robot or Remote Control. Other buttons on the Remote Control will function when WINBOT is paused.
		The Remote Control is not paired with WINBOT. (WINBOT arrives from the factory paired with its Remote Control. If the Remote Control becomes un-paired or is replaced, it can be re-paired.)	Power ON WINBOT. Press and hold START/PAUSE Button on WINBOT and Pairing button on the Remote Control at the same time. Pairing is complete when START/PAUSE Button blinks RED and BLUE and beeps.
		WINBOT Status Indicator Light glows a continuous RED.	Press and hold RESET on the Remote Control to initialize WINBOT and then the Remote Control functions.
		The batteries are not installed in the Remote Control or need to be changed.	Install or replace the batteries in the Remote Control.



## 6. Troubleshooting

No.	Malfunction	Possible Causes	Solutions
3	WINBOT Status Indicator Light flashes BLUE after the product is placed on the glass.	The Cleaning Pad is attached incorrectly and is covering the fan or the Edge Detection Sensors.	Remove the Cleaning Pad and re-attach it making sure it is placed exactly within its Velcro area and does not cover the fan or the Edge Detection Sensors.
		Edge Detection Sensor malfunction.	<p>A. Remove the Cleaning Pad and re-attach it making sure it will not cover or affect the Edge Detection Sensors.</p> <p>B. Clean the Edge Detection Sensors as described in section 4.</p> <p>C. If the problem persists, please contact Customer Service.</p>
		Fan malfunction.	<p>A. Clean the Fan as described in section 4.</p> <p>B. If the problem persists, please contact Customer Service.</p>
		Glass is too dirty for WINBOT to adhere properly.	<p>Clean a small area on the glass before using and placing WINBOT there, or clean the window by hand first and use WINBOT for regular cleaning after that.</p> <p>* WINBOT is intended to be used for maintenance cleaning on common windows. The product is not designed to replace heavy-duty or windows with heavy dust for the first time.</p>

## 6. Troubleshooting

No.	Malfunction	Possible Causes	Solutions
4	WINBOT Status Indicator Light of the product glows a continuous RED	WINBOT has moved over a problem area and is losing suction.	<p>A. Press the RESET Button on the Remote Control. Use the Direction Control buttons on the Remote Control to move WINBOT away from the problem area and at least 10cm/4 " from window corners and obstacles. Restart WINBOT.</p> <p>B. Check if WINBOT meets an obstacle of window handle. Press the RESET Button on the Remote Control, and then use the Direction Control Buttons to direct WINBOT to clean around the area around the handle.</p>
		Edge Detection Sensor are dirty.	Wipe the Edge Detection Sensors clean as described in section 4. If the problem persists, please contact Customer Service.
5	Safety Pod Status Indicator Light of the product glows a continuous RED	The Safety Pod is not paired with WINBOT. WINBOT arrives from the factory paired with its Safety Pod. If the Safety Pod becomes unpaired or is replaced, it can be re-paired.	Power ON WINBOT. At the same time, press and hold START/PAUSE Button on WINBOT and Pairing button on the Safety Pod. Pairing is complete when Safety Pod Status Indicator Light blinks RED and GREEN and beeps.
		Safety Pod is losing its suction.	Remove the Safety Pod, and re-press it onto the glass until the Safety Pod Status Indicator Light glows a continuous GREEN.
		Safety Pod is in Sleep Mode.	Power off the Safety Pod then power it on.
		Safety Pod Jack is not connected with WINBOT Safety Pod Port.	Insert the Safety Pod Jack into the Port as described in section 3.2

## 6. Troubleshooting

No.	Malfunction	Possible Causes	Solutions
6	WINBOT moves in an irregular pattern during cleaning.	There is too much dirt and debris on the window.	<p>A. Spray additional Cleaning Solution on the Cleaning Pad.</p> <p>B. Clean the Driving Treads as described in section 4.</p> <p>C. Replace the Cleaning Pad and restart the cleaning cycle.</p> <p>D. Use the Remote Control to control the cleaning by pressing Direction Buttons.</p> <p>* WINBOT is intended to be used for maintenance cleaning on common windows. The product is NOT designed to replace heavy duty or first time cleaning.</p>
7	WINBOT is stuck, and cannot move, be controlled by the Remote Control, or be reset by pressing RESET.	Insufficient suction or Edge Detection Sensor signal abnormality.	<p>Press the RESET Button on the Remote Control and then press and hold it until the WINBOT Status Indicator Light glows a continuous BLUE or Safety Pod Status Indicator Light glows a continuous GREEN to switch WINBOT to Manual Override Mode. In Manual Override Mode, the Direction Control Buttons on the Remote Control are activated. Use the Direction Control Buttons to move WINBOT to a position away from edges and where you can safely reach it. Remove WINBOT from the window and power OFF. Power ON and restart.</p> <p>*When using the Manual Override Mode, do not leave WINBOT attached to the glass unattended.</p> <p>If the problem persists, please contact Customer Service.</p>
8	WINBOT will not charge.	WINBOT is not powered ON.	Move the robot's Bottom Power Switch to the ON position.

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WA30-US EN-IM2017R00