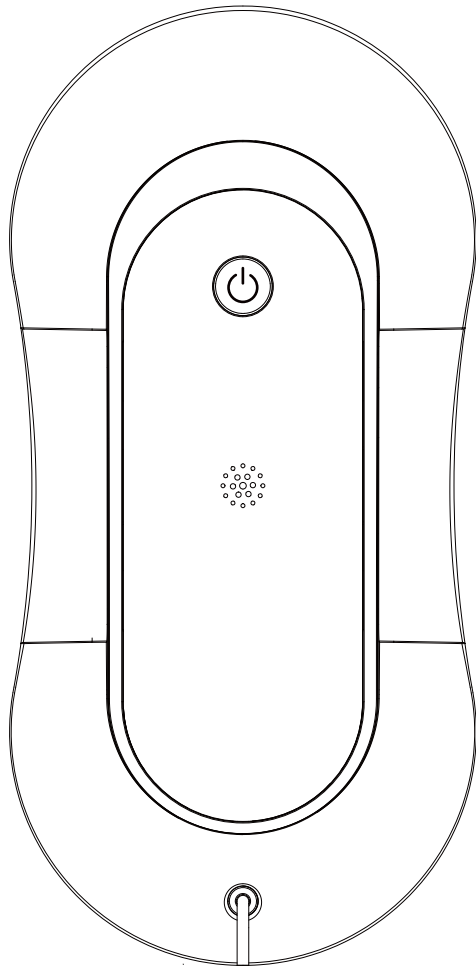


# Window Cleaning Robot

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## User Manual



Thank you for purchasing this product, please read the instructions carefully before use.

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## 1.Important Safety Instructions and Warnings

### 1.Attention! Must read before use

1. Do not allow children to operate this product. Users with physical, sensory or psychological disorders, or those who lack knowledge of the functions and operation of this product must be supervised by a fully competent user after being familiar with the use procedures and safety risks. Users must use the product under the supervision of a fully capable user after familiarizing themselves with the use process and safety risks. Children are not allowed to use. This product should not be used by children as a toy.
2. This product can only be used to clean framed windows and glass (not suitable for frameless windows and glass). If the glass cement of the glass frame is damaged, in case the product pressure is insufficient and fall down, please pay special attention to this product during cleaning process. User must observe the using scenario to ensure that the product is used safely and securely.

### 2.Warnings

Please use the original adapter!

(Using a non-original adapter may cause product failure or cause damage to the product)

- Make sure the adapter has enough space for ventilation and heat dissipation during use. Do not wrap up the power adapter with other objects.
- Do not use the adapter in a humid environment. Do not touch the power adapter with wet hands during use. There is an indication of the voltage used on the adapter nameplate
- Do not use a damaged power adapter, charging cable or power plug. Before cleaning and maintaining the product, the power plug must be unplugged and do not disconnect the power by disconnecting the extension cable to prevent electric shock.
- Do not disassemble the power adapter. If the power adapter is malfunctioning, please replace the entire power adapter. For assistance and repairing, contact your local customer service or distributor.
- Please do not disassemble the battery. Do not dispose the battery in a fire. Do not use in a high temperature environment above 60℃. If the battery of this product has not been handled properly, there is a risk of burning or causing chemical damage to the body.
- Please hand over the used batteries to the local professional battery and electronic product recycling center for recycling.
- Please strictly follow this manual to use this product.
- Please keep this manual for future use.
- Do not immerse this product in liquids (such as beer, water, drinks, etc.) or leave it in a humid environment for a long time.
- Please keep it in a cool dry place and avoid direct sunlight. Keep this product away from heat sources (such as radiators, heaters, microwave ovens, gas stoves, etc.).
- Do not place this product in a strong magnetic scene.
- Please store this product out of reach of children.
- Please use this product in 0℃~40℃ (32℉~104℉) ambient temperature.
- Do not clean damaged glass and objects with uneven surface. On uneven surfaces or damaged glass, the product will not be able to generate sufficient vacuum adsorption.
- The built-in battery of this product can only be replaced by the manufacturer or designated dealer / after-sales center to avoid danger.
- Before removing the battery or dispose of the battery, the power must be disconnected.
- Please operate this product in strict accordance with the instructions, if any property damage and personal injury caused by improper use, the manufacturer is not responsible for it.

## Attention

1. Before use, please make sure that the safety rope is not broken and one end is firmly connected to the product and the other end is firmly connected to other fixed indoor furniture to prevent the product from falling down and causing damage to people or other objects.
2. If the glass cement in the middle section of the window is damaged or chipped at the corners due to aging, please be careful to use the product and make sure someone can offer help during the working period, to prevent the machine from falling down and causing damage to people or objects.

## 3. Beware of Risk of Electric Shock

Make sure the power is completely disconnected and the machine is turned off before cleaning or maintaining the body.

- Do not drag the power plug from the socket. The power plug should be unplugged correctly when power-off.
- Do not attempt to repair the product yourself. Product maintenance must be carried out by an authorized after-sales center or dealer.
- Do not continue to use if the machine is damaged/power supply is damaged.
- If the machine is damaged, please contact the local after-sales center or dealer for repair.
- Do not use water to clean the product and power adapter.
- Do not use this product in the following dangerous areas, such as place with flames, bathrooms with running water from the nozzles, swimming pools, etc.
- Do not damage or twist the power cord. Do not put heavy objects on the power cord or adapter to avoid damage.

## 4. Warnings

1. Before operation, make sure the safety rope is not broken and tie it securely to a fixed indoor furniture.
2. Before using the product, make sure there the safety rope is not damaged and the knot is secured.
3. When cleaning the glass of the window or door without protective fence, please set up a safety warning area downstairs.
4. Fully charge the built-in backup battery before use (blue light is on).
5. Do not use in rainy or humid weather.
6. Turn on the machine first and then attach it to the glass.
7. Make sure the machine is firmly attached to the glass before letting go of your hands.
8. Before turning off the machine, please hold the machine to avoid dropping.
9. Do not use this product to clean frameless windows or glass.
10. Make sure the cleaning pad is properly attached to the bottom of the machine to prevent air pressure leakage during adsorption.
11. Do not spray water towards the product or the bottom of the product. Only spray water towards the cleaning pad.
12. Children are not allowed to use the machine.
13. Remove all items from the glass surface before use. Never use the machine to clean broken glass.  
The surface of some frosted glass may be scratched during cleaning. Please use with caution.
14. Please keep hair, loose clothing, fingers and other parts of body away from the working product.
15. Do not use in those areas with flammable and explosive solids and gases.

## 5. FCC STATEMENT

This equipment has been tested and found to comply with the limits for a ClassB 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. To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment 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.

FCC Radiation Exposure Statement:

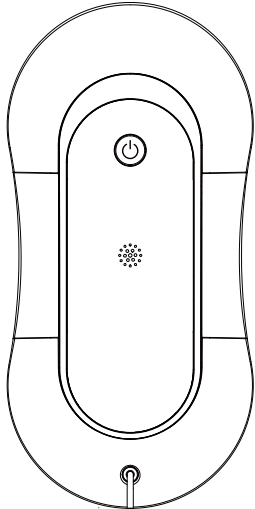
The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body

## 2. Product Description & Parameters

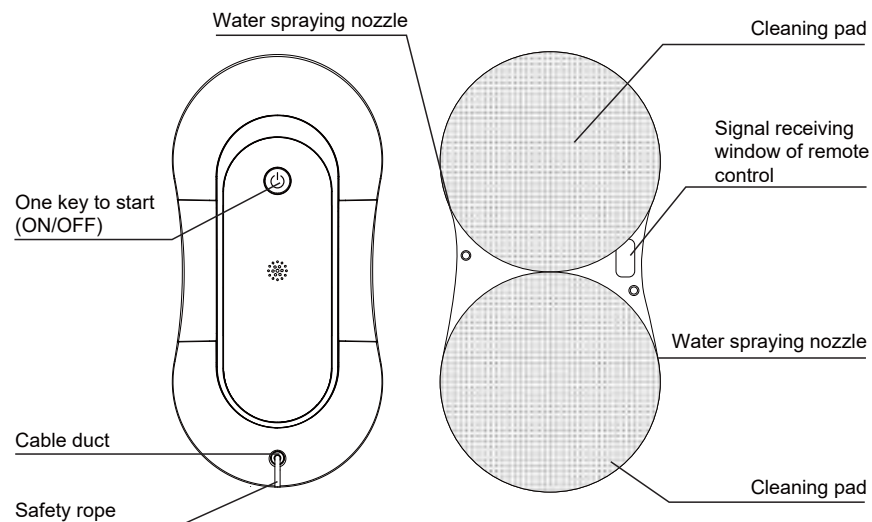
### 1. Product Description

1. Window cleaning robot is a new generation of single-sided glass cleaning robot. With a vacuum motor, which can make the machine adsorb on the glass surface and walk freely on the vertical glass surface. Built-in UPS power failure system (uninterruptible power system) prevent the product from falling down due to power failure.
2. Window Cleaning Robot has two well-designed cleaning wheels with suction cup to achieve function of walking and cleaning. The cleaning wheel can attach and walk on the vertical glass surface. The cleaning pad on the cleaning wheel can be easily removed and replaced. The cleaning pad is made of fine microfiber material to achieve excellent cleaning result.
3. The window cleaning robot is upgraded with advanced artificial intelligence technology. With the function of intelligent path planning and frame detection. it can automatically clean the entire window. With remote control to operate the robot freely.

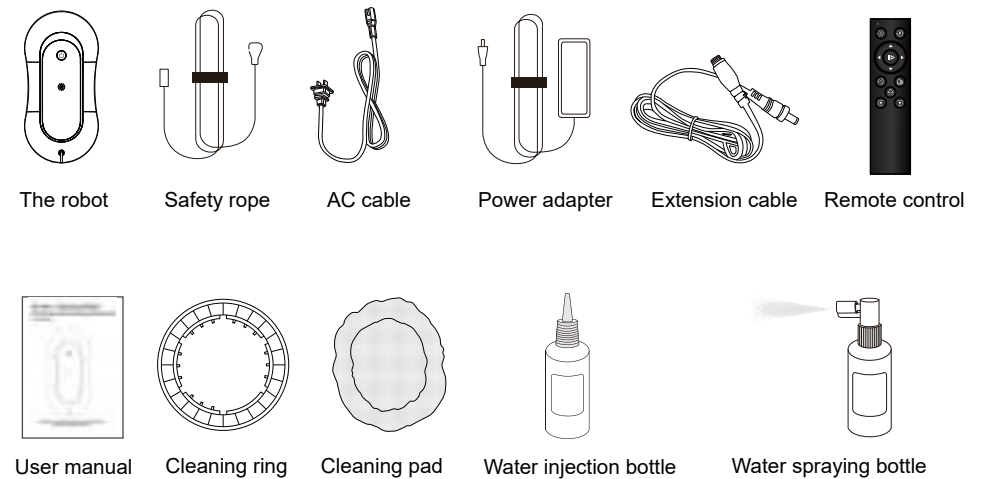
## 2.Product Parameters

	Product parameters	
	Input voltage	AC100~240V 50Hz~60Hz
	Working noise	65dB
	Battery capacity	500mAh
	Product size	291*143*82mm
	Suction	2800Pa
	Net weight	1030g
	UPS power failure protection time	20min
	Control method	Infrared remote control
	Frame detection	Automatic
	Anti-fall system	UPS power failure protection/Safety rope
	Cleaning mode	3 types
	Water spraying mode	Manual/Automatic

## 3.Product Component



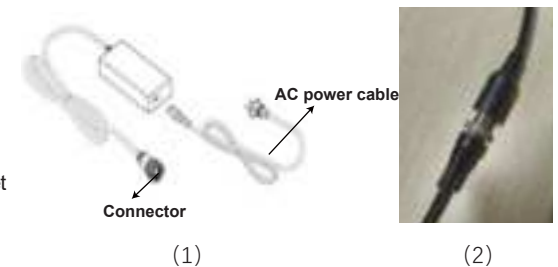
## 4.Product & Accessories



## 3.Steps for Usage

### 1.Power Connection

- Connect the AC power cable to the adapter
- Connect the power adapter with the extension cable
- Plug the AC power cord into an outlet



### 2.Charging

The robot has built-in backup battery to provide power in the event of power failure. Please make sure the battery is fully charged before use (blue light is on).

- First connect the power cable to robot and plug the AC cable into an outlet, blue light is on. It indicates that the robot is in the charging state.
- When the blue light remains on, it means the battery is fully charged.

### 3.Install the Cleaning Pad and Cleaning Ring

According to the picture shown, make sure to put the cleaning pad on the cleaning ring and place the cleaning ring on the cleaning wheel correctly to prevent air-pressure leakage.



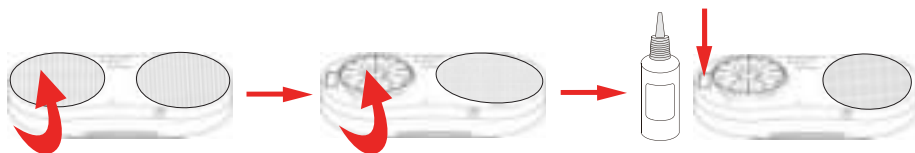
### 4.Fasten the Safety Rope

- A. For the doors and windows without balcony, hazard warnings marks must be placed on the ground downstairs to keep people away from.
- B. Before use, please check whether the safety rope is damaged and whether the knot is loose
- C. Be sure to fasten the safety rope before use, and tie the safety rope on fixed objects in the house to avoid danger.



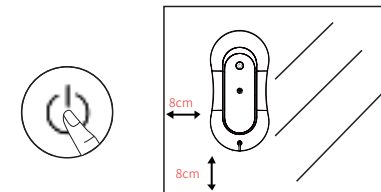
### 5.Inject Water or Cleaning Solution

- A. Only Fill with water or special cleaning agents diluted with water
- B. Please do not add any other cleaners to the water tank
- C. Open the silicone cover and add cleaning solution



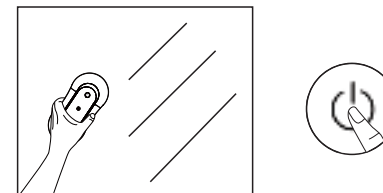
### 6.Attach the Robot to the Glass

- A. Short press "ON/OFF" button to power on, vacuum motor starts working
- B. Attach the robot to the glass and keep a certain distance from the window frame
- C. Before releasing your hands, make sure the robot is attached to the glass firmly



### 7.Complete Cleaning

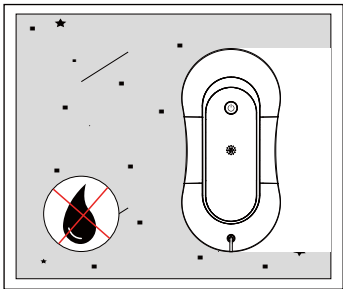
- A. Hold the robot with one hand, and press "ON/OFF" button with the other hand for about 2 seconds to turn off the power
- B. Take down the robot from window.
- C. Untie the safety rope, place the robot and its related accessories in a dry and ventilated environment for use next time.



4. Function of Cleaning

1.Wipe with Dry Cleaning Pad

- A. For wiping at the first time, be sure to “wipe with dry cleaning pad”.Do not spray water and remove the sand on the glass surface.
- B. If spraying water (or detergent) on the cleaning pad or glass first, the water (or detergent) will mix with sand and turn into mud which cleaning effect is poor.
- C. When the robot is used in sunny or low humidity weather, it is better to wipe with dry cleaning pad.




Noted: If the glass is not dirty heavily, please spray the water on the glass surface or cleaning pad before cleaning to avoid slipping.


2.Water Spraying Function

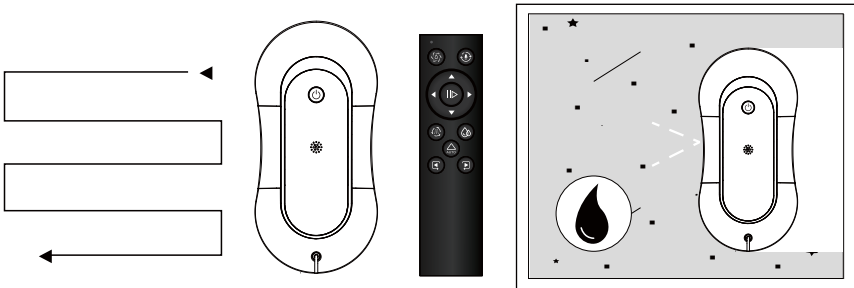
The robot is equipped with 2 water spray nozzles. When the robot is cleaning to the left, the left water spraying nozzle will automatically spray water. When the machine is cleaning to the right, the right water spraying nozzle will automatically spray water.

1.Automatic Water Spraying

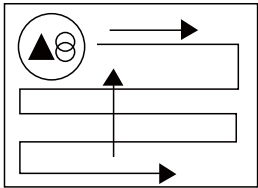
- A. When the robot is cleaning, it will spray water automatically.
- B. Press this button“”, the robot issues “beep” sound, and the robot turn off the automatic water spraying mode.

2.Manual Water Spraying 

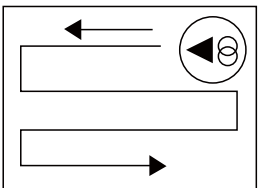
When the robot is cleaning, it will spray water once for each short press of button “”



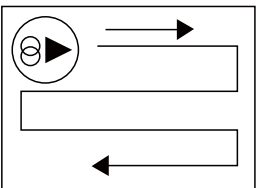
3.Three Intelligent Path Planning Modes



First towards up then  
towards down



First towards left then  
towards down















First towards right then  
towards down

4.Remote Control

- A. Do not disassemble the battery, do not put the battery in fire, there is a possibility of deflagration.
- B. Please use AAA/RLO3 batteries of the same specification as required. Do not use different types of batteries. There is a danger of damaging the circuit.
- C. New and old batteries or different types of batteries cannot be mixed.



	Language switching		Clean toward upward
	Manual water spraying		Clean toward the left
	Automatic water spraying		Clean toward the right
	Start cleaning		Clean toward down
	Start / Stop		Up first then down
	Clean along the left edge		Clean along the right edge

5. UPS Power Failure System

- A. The robot will keep adsorption about 20 minutes when power failure
- B. When there is a power failure, the robot will not move forward. It will issue a warning sound. The red light flashes. To avoid falling down,please take down the robot as soon as possible
- C. Use the safety rope to gently pull the robot back. When pulling the safety rope, try to be as close to the glass as possible to avoid falling down of the robot.

## 1.LED Indicator Light

Status	-LED Indicator Light
1.During charging	Red and blue light flashes alternately
2.Complete charging	Blue light is on
3.Power failure	Red light flashed with “beep” sound
4.Low vacuum pressure	Red light flash one time with “beep” sound
5.Vacuum pressure leakage during working	Red light flash one time with “beep” sound

Note: When the red light is flashing and the robot issues "beep" warning sound, please check whether or not the power adapter connects with power normally

## 6. Troubleshooting

- When the cleaning cloth is used for the first time (especially in the dirty environment of the outer window glass), the machine may run slowly or even fail.
  - When unpacking the machine, clean and dry the supplied cleaning cloth before use.
  - Spray a little water or glass water evenly on the cleaning cloth or the surface of the glass to be wiped.
  - After the cleaning cloth is dampened and wrung out, put it into the cleaning ring of the machine for use
- The machine will test itself at the beginning of operation. If it can not run smoothly and there is a warning sound, it means that the friction is too large or too small.
  - Whether the cleaning cloth is too dirty.
  - The efficient of friction of glass stickers and fog stickers is relatively low, so they are not suitable for use.
  - When the glass is very clean, it will be too slippery.
    - When the humidity is too low (air conditioning room), the glass will be too slippery after wiping
  - for many times.
- The machine cannot wipe the upper left side of the glass.

You can use the remote control manual window cleaning mode to wipe the part that has not been wiped (sometimes the glass or cleaning cloth is slippery, the width of the wiped glass is larger, and the top line slides a little, resulting in the upper left position can not be wiped).

- Possible reasons for slipping and not climbing when climbing.
  - The friction is too small. The friction coefficient of stickers, thermal insulation stickers or fog stickers is relatively low.
  - The cleaning cloth is too wetWhen the glass is very clean, it will be too slippery.
  - When the humidity is too low (air conditioning room), the glass will be too slippery after wiping for many times.
  - When starting the machine, please place the machine at a distance from the window frame to avoid wrong judgment.