

RD0/RZ0 宽电压/窄电压 650毫安通用（英文版）说明书

材质：100g铜版纸

尺寸：142\*210mm

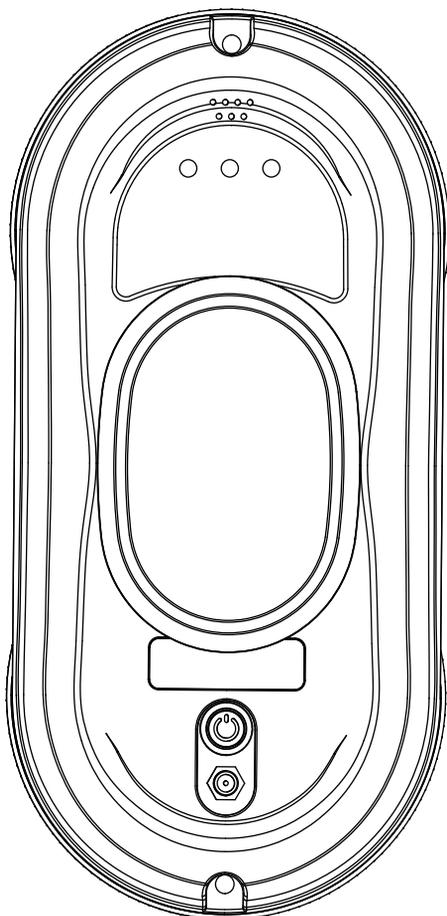
骑马钉

单黑印刷

# Window cleaning Robot

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# User Manual



The product is based on the actual item inside the packaging.

Thank you for purchasing this product, please read the manual carefully before using it.



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# 1. Important safety matters and warnings

## 1. Attention! Must read before use

Children must not operate this product.

Users with physical, sensory, or psychological disorders, or those lacking knowledge of the product's functions and operations, should be supervised by a fully competent user after becoming familiar with usage procedures and safety risks.

The product should only be used under the supervision of a fully capable user after acquainting oneself with the usage process and safety risks.

This product is designed exclusively for cleaning framed windows and glass; it is not suitable for use on windows and glass without frames.

If the window or glass frame has a damaged silicone rubber edge, extreme attention must be given to prevent potential leaks and ensure the machine's stability during the cleaning process.

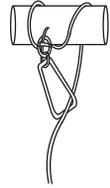
Users are responsible for carefully observing the usage scenario to guarantee the safe and secure use of the product.

## 2. Safety matters

- Use only the original adapter. Using a non-original adapter may result in product failure or damage.
- Ensure the adapter has sufficient space for ventilation and heat dissipation during use. Avoid wrapping the power adapter with other objects.
- Avoid using the adapter in a humid environment.
- Refrain from touching the power adapter with wet hands during use.
- Charge the window robot at the voltage within the capacity of the power adapter.
- Do not use a damaged power adapter, charging cable, or power plug.
- Unplug the power plug before cleaning or maintaining the machine.
- Avoid disconnecting the power by unscrewing the extension cord to prevent electric shock.
- Do not disassemble the power adapter. If faulty, replace the entire power adapter. For assistance and repair, contact your local customer service or distributor.
- Mishandling the product's battery poses a risk of combustion or chemical injury. Do not disassemble the battery to avoid short circuits. Avoid use in environments exceeding 60°C.
- Dispose of used batteries at a professional waste battery recycling center, adhering to national laws and regulations.
- Avoid immersion in liquids or prolonged exposure to a humid environment.
- Keep the product away from sunlight and heat sources.
- Store the product out of reach of children, away from strong magnetic fields. Use the product within an ambient temperature range of 0°C - 40°C (32°F - 104°F).
- Avoid cleaning damaged glass or surfaces with uneven textures, as the product may not provide sufficient vacuum suction on such surfaces.
- The built-in battery can only be replaced by the manufacturer or a designated dealer/after-sales center to prevent potential hazards. Disconnect power before handling the battery.
- Operate the product strictly in accordance with the instructions. The manufacturer is not responsible for any property damage or personal injury resulting from improper use.

## Attention

1. Before use, make sure that the safety rope is not broken and one end is firmly connected to the robot and the other end is firmly should be securely attached to other objects in the room to prevent the window robot from falling and injuring people or objects.
2. If the window glass glue is falling off in the middle section or chipped at the corners due to aging, please be careful to use the robot. make sure that there is a user supervising the machine during the working period to prevent the robot from falling down and hurting people or objects



## 3. Risk of electric shock

- Make sure the power is completely disconnected and the robot is off before cleaning the body or maintaining the body.
- Do not drag the power plug through the extension cord, power off should be properly unplugged.
- Do not continue to use the product if the machine is damaged/the power supply is damaged.
- Robot is damaged, please contact your local after-sales center or dealer for repair.
- Do not use water to clean the machine body and power adapter.
- Do not use this product in dangerous areas such as open fire, bathroom with water flowing from the open nozzle, by the swimming pool, etc.
- Do not damage or twist the power cord. Do not put heavy objects on the power cord or adapter to avoid damaging.

## 4. Warnings

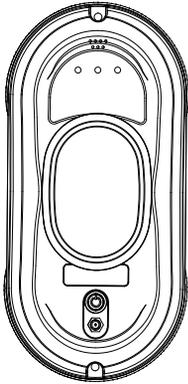
1. Before operation, make sure to attach the safety rope and tie it securely to a stable indoor unit.
2. Before turning on the robot, check the safety rope for damage and secure knotting. Make sure there is no damage and that the knot is secure before using the product.
3. For the glass doors and windows without balcony, a danger warning must be put on the ground downstairs
4. Fully charge the built-in backup battery before use (green light on).
5. Do not use in rainy or wet weather.
6. Turn on the robot first and then place it on the window glass.
7. Make sure the robot is safely attached to the window surface before before releasing your hands.
8. When power is cut off, ensure that the robot stops safely and take it before the battery exhaust.
9. Do not use this product to clean frameless windows or glass.
10. Make sure the cleaning cloth is properly attached to the bottom of the machine to prevent air leakage when the window cleaner is adsorbed.
11. Do not spray the robot or the bottom of the machine. spray water only on the cleaning cloth.
12. Do not allow children to use the robot.
13. Please remove any items on glass surface before use.
14. Please let hair, loose clothes, fingers or other parts of body keep distance with the working parts of robot.
15. Do not use the robot in area of flammable and explosive solids or gases.

## 2. Product Description & Parameters

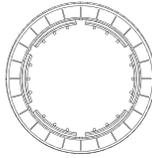
### 1. Specifications

Input voltage	AC100-240V / 200-240V, 50Hz / 60Hz
Rated power	72W
Battery capacity	650mAh
Suction power	3000Pa $\pm$ 10%
Power failure protection time	20min
Way to control	Remote control
Noise	65 -70dB
Border detection	automatic
Fall arrest control	Power failure protection (backup battery) safety rope
Cleaning mode	Intelligent path planning modes
External dimensions	295*145*118mm

### 4. Product accessories



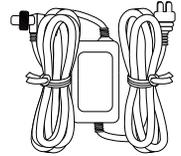
Host



Cleaning ring



Cleaning cloth



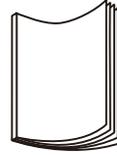
Adapter + power cord



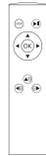
Safety rope



Spray bottle

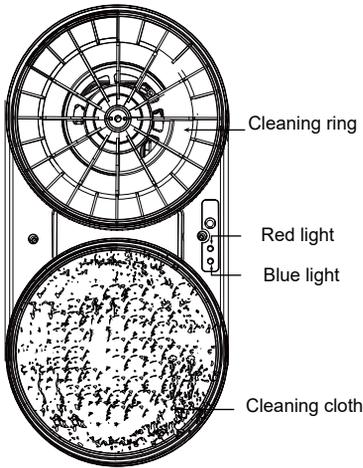
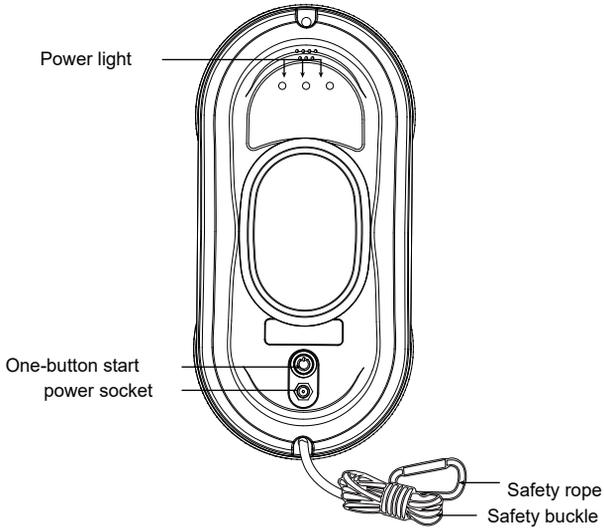


User manual



Remote control

### 3. Product component name



**Power light** ○ ○ ○

● Orange light : charging

● Blue light : machine is normal

● Green light : charging complete

● Red light : machine abnormality

### 3. The remote control

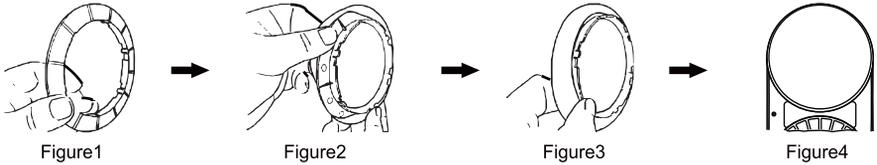
- A. Do not charge the remote control battery, do not disassemble the battery, do not put the battery in fire, there is a possibility of detonation.
- B. Please use No. , AAA batteries of the same specification as required, please do not use different types of batteries, there is a danger of burning the circuit, when the battery is installed and removed, push the remote control cover down, open the battery cover, and install .When using the battery, align the negative pole with one end of the spring first, press it down, the reverse installation of the battery is invalid, and then cover the battery cover.
- C. New and old batteries or different models, different types of batteries cannot be mixed.

		Climb to the top and then automatic clean
		Auto clean from right to left
		Auto clean from left to right
		Manual upward movement
		Manual downward movement
		Manually move to the left
		Manually move to the right
		Press OK or STOP to stop the machine
		Press STOP or OK to stop the machine
		Start / Pause

## 4. Use Steps

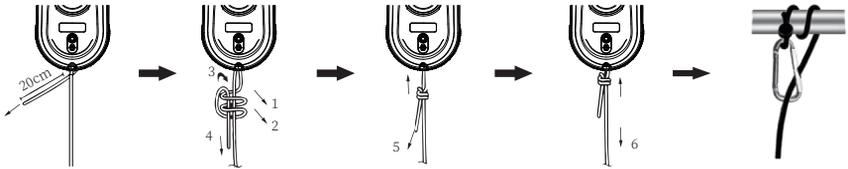
### 1. Install the cleaning cloth and clean ring

According to the diagram, make sure the cleaning cloth is install on the cleaning ring, and the cleaning ring is correctly install on the cleaning wheel to prevent air leakage.(Figure1, Figure2, Figure3, Figure4)



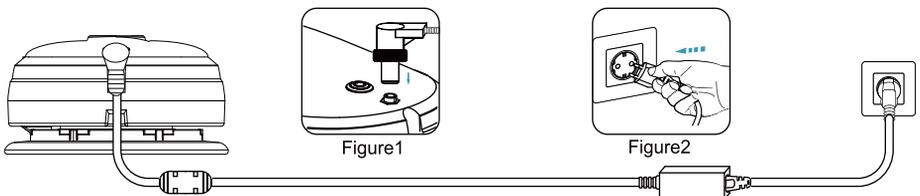
### 2. Attach a safety rope

- A. For the glass doors and windows without balcony, a danger warning must be put on the ground downstairs, to make sure people do not approach
- B. Please check whether the safety rope is damaged and whether the knot is loose before using.
- C. Be sure to fasten the safety rope before using, and tie the safety rope to the fixed objects in the house to avoid danger.



### 4. Power connect

- A. Insert the type threaded connector into the powerconnector of the fuselage and tighten it.(Figure1)
- B. Plug the power cord into the socket.(Figure2)



### Fully charged before use

- A. First connect the power cord, and the orange light is on, indicating that it is in the charging state.
- B. When the green light is on, means the battery is fully charged.It usually takes 3-4 hours to fully charge.

## 5. Activate the window-cleaning robot

- A. Press the start button and confirm that the fan rotates.  (Figure1)
- B. Put the machine on the glass and keep a certain distance from the window frame.(Figure2)
- C. Make sure that the robot can be attached to the glass, and then let go.(Figure3)
- D. Once more press the start button and the robot starts running.  (Figure4)



Figure1

80mm

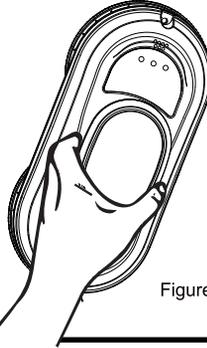


Figure2

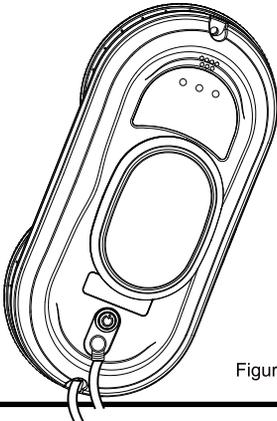


Figure3

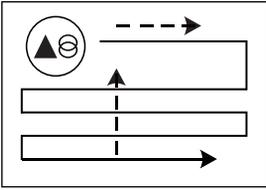


Figure4

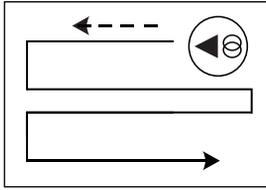
**Note:** Before starting, please ensure that the four sides of the machine are at least 80mm away from the frame of the glass.

# 5. Cleaning function

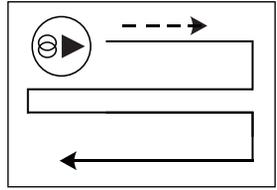
## 1. Intelligent path planning modes



Climb to the top and then automatic clean



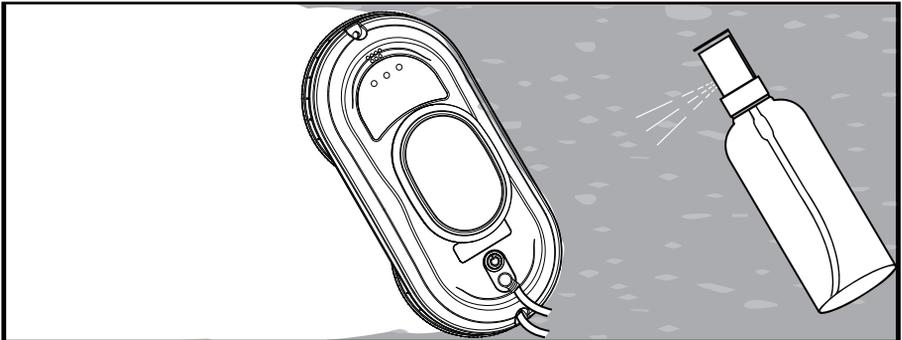
Auto clean from right to left



Auto clean from left to right

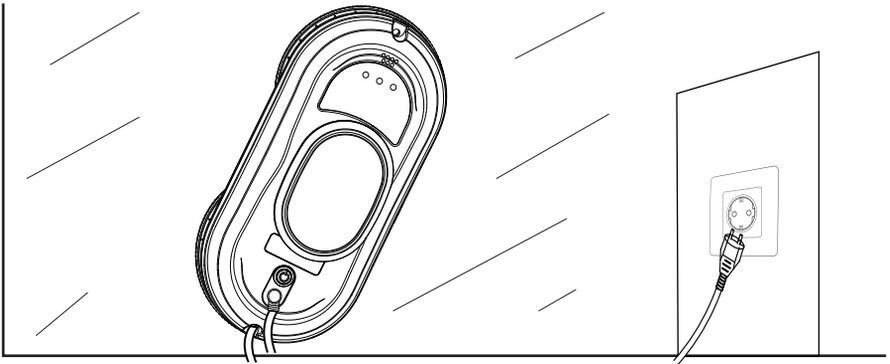
## 2. Dry wipe & Wet wipe

- A. The first time you wipe, without spraying water, first remove the sand on the surface of the glass.
- B. If you spray some water (detergent) on the cleaning cloth or glass first, the water (detergent) will mix with the sand and turn into yellow mud, and the wiping effect will be poor.
- C. When the machine is used in sunny or low-humidity weather, dry wipe is the best
- D. Change the clean cloth, or keep the cleaning wheel clean and dry, spray a little detergent or water (1~2 spray) on the cleaning cloth or glass. Do not wet the whole cloth, as the whole wet cloth will affect the operation of the machine.



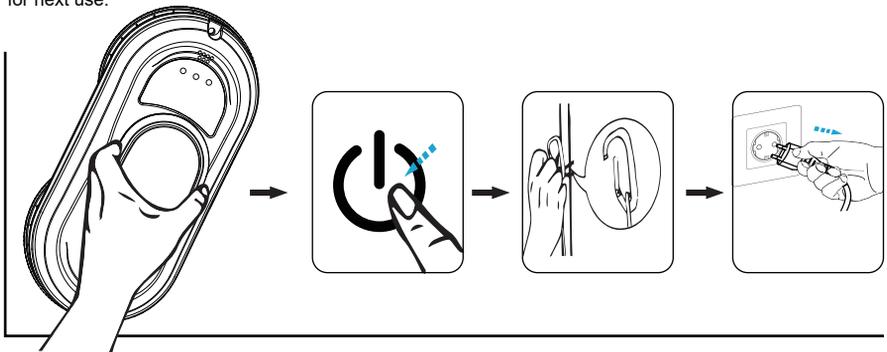
### 3. Power failure protection (backup battery)

- A. In case of power failure, the robot will start the built-in backup battery power, which can last for 20 minutes (when the battery is fully charged).
- B. In the event of a power failure, the machine will stay in place and will not move forward, The red lights will flash and will emit a warning sound. Take down the robot as soon as possible to avoid falling from the glass due to the power failure.
- C. Use the safety rope to gently pull the device back, when pulling the safety rope, keep it as close to the glass as possible to avoid falling.



### 4. Cleaning completed

- A. Hold the window cleaner with one hand and press the  button for 2 seconds with the other hand to turn off the power.
- B. Remove the window cleaning robot from the window.
- C. Untie the safety rope and place the machine and its related accessories in a dry and ventilated environment for next use.



## 6. Troubleshooting

**1. 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:**

- A. When unpacking the machine, clean and dry the supplied cleaning cloth before use.
- B. Spray a little water or glass water evenly on the cleaning cloth or the surface of the glass to be wiped.
- C. After the cleaning cloth is dampened and wrung out, put it into the cleaning ring of the machine for use.

**2. 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:**

- A. Whether the cleaning cloth is too dirty.
- B. The efficient of friction of glass stickers and fog stickers is relatively low, so they are not suitable for use.
- C. When the glass is very clean, it will be too slippery.
- D. When the humidity is too low (air conditioning room), the glass will be too slippery after wiping for many times.

**3. When pressing the up automatic cleaning button  , the machine can't detect the upper edge of the window due to the sliding of the upper edge of the window:**

Please press the  key to switch to  or  auto clean mode.

**4. 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).

**5. The machine can't clean the windows completely, but finish the cleaning work ahead of time:**

You can press  or  auto window mode to continue the unfinished part.

**6. Possible reasons for slipping and not climbing when climbing:**

- A. The friction is too small. The friction coefficient of stickers, thermal insulation stickers or fog stickers is relatively low.
- B. The cleaning cloth is too wet. When the glass is very clean, it will be too slippery.
- C. When the humidity is too low (air conditioning room), the glass will be too slippery after wiping for many times.
- D. When starting the machine (press  or  or  ), please place the machine at a distance from the window frame to avoid wrong judgment.

**7. After cleaning, round wheel marks remain on the glass surface:**

The cleaning cloth is too dirty. Please replace it with a clean cloth and wipe it again.

**8. The machine doesn't run smoothly. Possible reasons:**

- A. The cleaning cloth is too dirty. Please replace it.
- B. There are different areas on the glass surface (glass area, sticker area, thermal insulation sticker area or fog sticker area). Please use it in a single area.
- C. If the screw of the cleaning wheel is loose, please lock it (do not lock it too tightly, otherwise it may affect the glass glue thickness at the bottom of the window frame or the performance of the beveled window frame).

**9. How to deal with the warning sound and red light flashing when the machine stops operation due to power failure:**

- A. Gently pull the safety rope back to the machine; when pulling the safety rope, it should be close to the parallel glass as far as possible to avoid falling.
- B. Turn off the machine power switch.
- C. Check the wire for poor contact or broken wire.

**10. The machine stops when encountering unknown obstacles, the red light flashes and there is no warning sound. How to deal with it:**

- A. Let the machine back to safe position via remote control.Or gently pull the safety rope back to the machine, when pulling the safety rope, it should be close to the parallel glass as far as possible to avoid falling.
- B. Remove the obstacles on the window.
- C. Check if there is the reason caused air leak.

**11. The machine has cleaned all the windows, but it can't stop automatically:**

Please press (⏏) the key to stop the operation.



