

Window Cleaning Robot

Use manual

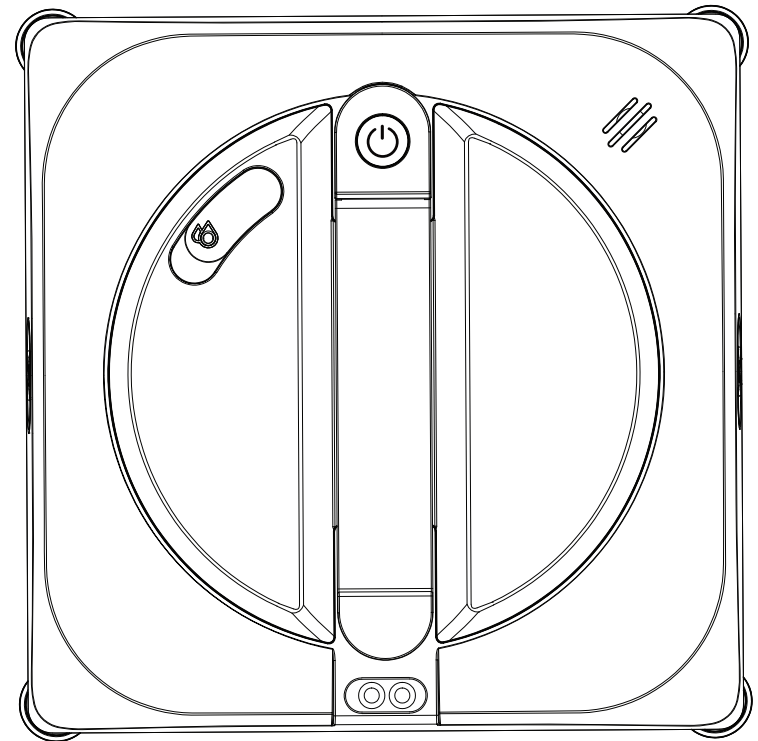


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FCCWARNING

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.

Note: 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:

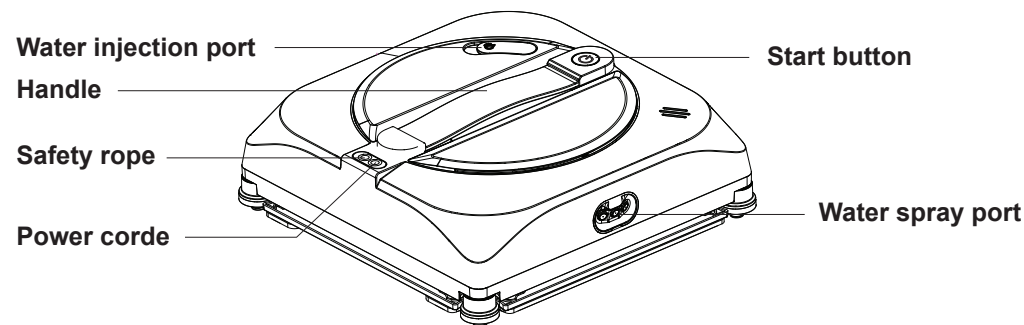
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

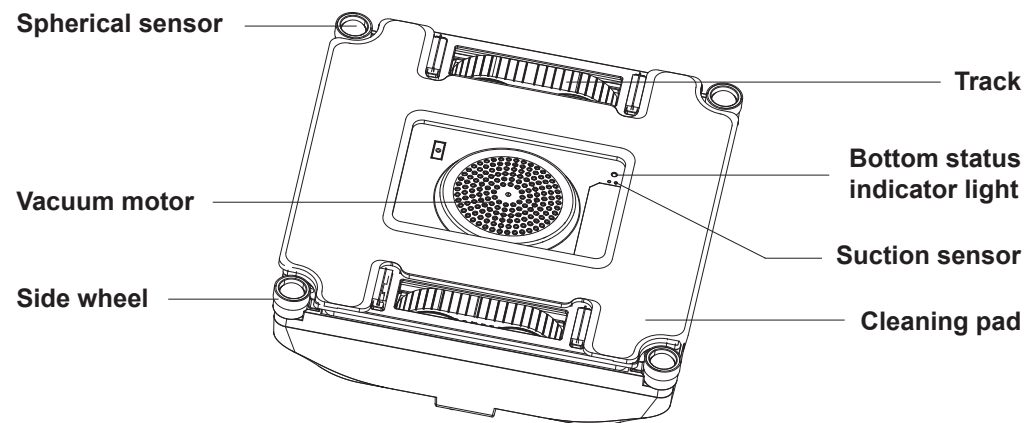
The device has been evaluated to meet general RF exposure requirement. This equipment complies with FCC's RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna(s) must not be co-located or conjunction with any other antenna or transmitter.

1.Product Introduction

1.1 Introduction to Component Names and Functions



Front of the window cleaning robot



Back of window cleaing robot

1.2 Instrution Of Installation Method

① Install a Cleaning Cloth

Attach the cleaning cloth to the bottle of machine as shown in picture 1,do not cover 4 angle detection holes and tracks,and keep it flat (the cleaning cloth can be wet and forced to dry).

※ The Cleaning cloth must be installed.

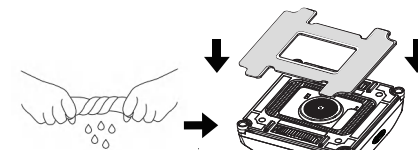
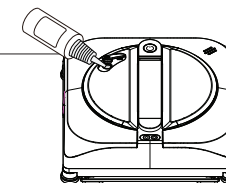


Fig 1

② Fill the Water Tank

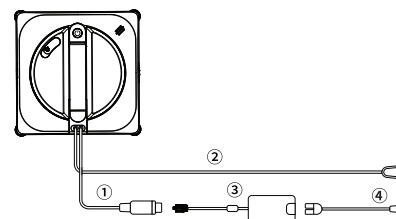
Open the water injection port and inject glass pure water into the water tank.(if you need add water maximum capacity,please tilt the machine 45 degree to the right to maximize the water tank).

※ The liquid must be a non-corresive liquid for example: pure water,glass water,ete.Do not pour corrosive liquids.



③ Power Connection

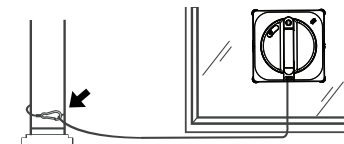
- (1)Connect the fuselage power cord to the adpter.
- (2)Connect the Plug into the electric socket.
- (3)Plug the plug into a powered outlet.



④ Fixed Saftey Rope

- (1)Check the whether the safety rope is damaged or not. If the safety rope is in good condition and is not damaged,the following operations can be performed.
- (2)Fasten the safety rope to a strong,Reliable and immovable object and set aside an appropriate length for the machine to work.
- (3)Note that when fixing, you can wrap 1 to 2 more times appropriately.

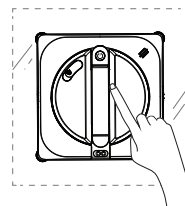
※ When using outdoors, please be sure to fix the safety rope before turning it on.



⑤ Open The Machine

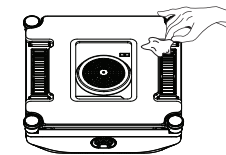
- (1)Short press the “⏻”button, the blue light flashes, and the fan starts to start.
- (2)The machine is attached to the glass and the machine begins to clean.

※ If there is too much ash on the surface of the glass, wipe down a clean area the size of the machine place the machine.



⑥ Track cleaning

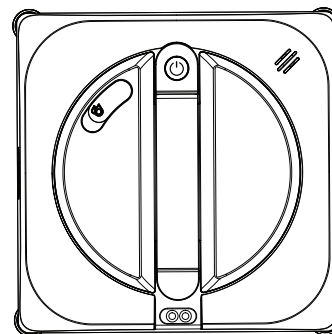
- (1)If you find that the machine track is visibly dirty or you encounter difficulties in the machine walking, you can use the wheel skin cleaning button on the remote control to clean the wheel skin.
- (2)Flip the machine, press the wheel skin cleaning button after connecting the power supply, and use a damp rag or wet wipe the dirt on the surface of the track with a paper towel, wipe it clean and then wipe the track with a dry rag. press the wheel skin cleaning button again to stop cleaning.



1.3 Introduction to Standard Operation Methods of the Machine

Series Number	The Name Of Action Method	The Name Of Operation Method
01	Dry cleaning method	The machine is in default wet cleaning mode (water spray on) when turned on. Use the automatic water spray button on the remote control to turn off the water spray and switch to dry cleaning mode (water spray off), and wipe with a dry cloth.
02	Wet wiping method	Directly wet the cloth with clean water, wring it out, and turn on the wet cleaning mode after the machine is powered on. ※ Be sure to use the original cloth; otherwise, it will affect the performance of the machine.
03	Method of cleaning cloth	Soak the cloth in clean water, brush off the surface dirt, and store it after drying.
04	Track cleaning method	Flip the machine, connect the power supply, press the wheel skin cleaning button, wipe the dirt on the surface of the track with a wet cloth or wet tissue, then dry the track with a dry cloth, and press the wheel skin cleaning button again to stop cleaning. ※ It is forbidden to use rags or dry paper towels to clean the track wheels.
05	Cleaning method for heavily soiled glass	If there is too much dust on the glass surface, before using the product, please wipe a clean area the size of the product for the product to adhere to. It is recommended to wipe several times.
06	Water tank filling method	Open the water injection port and pour glass cleaning fluid and pure water into the water tank. ※ The liquid injected must be non-corrosive. Examples include purified water, glass cleaner, etc. ※ Do not pour corrosive liquids into the device.
07	Machine storage method	After using the machine, please drain all the water in the water tank. Replace the used cloth with a clean and dry one, or store it without attaching the cloth. After the machine works in wet cleaning mode, it can be placed in a dry, ventilated and cool place for 1-2 days to disperse the moisture inside the machine.
08	Water spray control mode	The machine is default to automatic water spray. Use the remote control to turn on/off automatic water spray and manual water spray.

1.4 Accessory List



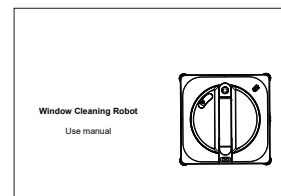
Window cleaning robot



Cleaning pad



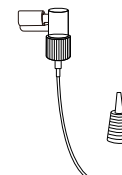
Remote control



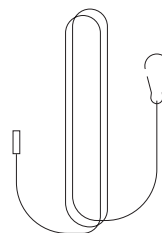
Use manual



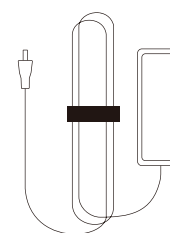
Empty bottle



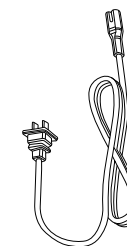
Spray nozzle+ Injection nozzle



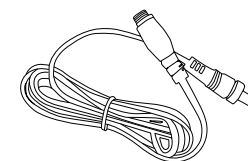
Safety Rope



Adapter



AC cable



Extension cord

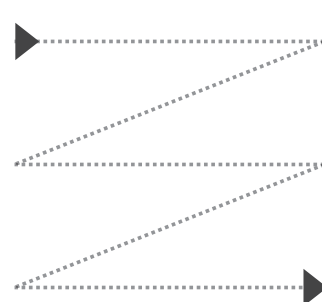
1.5 Instructions for use of the remote control

※ Take out the remote control battery when not using the machine for a long time to avoid damage to the remote control due to battery aging.

	Quick cleaning: the machine starts to clean quickly in left and right mode.
	Deep cleaning: the machine first cleans in left and right mode and then up and down mode, press twice in a row the machine starts to clean in up and down mode.
	Direction key: remote control to operate the machine to move up and down, left and right.
	Start/Pause button: Start auto-cleaning/pause cleaning
	Turn on/off the automatic water spray function: the machine turns on the automatic water spray function by default, After the start of cleaning, the machine automatically sprays water at intervals.
	Manual water spraying: Spray water once per short press.
	Wheel cleaning: The bottom of the machine is facing up, press this button to rotate after connecting the power supply.
	Edge cleaning: Clean along the edge of the window, and the machine will not spray when cleaning along the edge.
	Spot cleaning: Clean along the edge of the window, and the machine will not spray when cleaning along the edge.

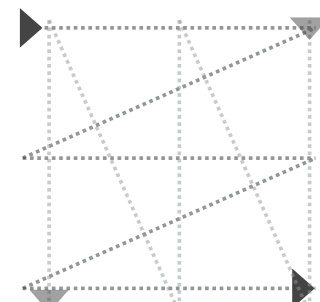
1.6 Path planning and description

The robot has two cleaning paths: " " mode and " " mode. After wiping, it will automatically return to the original point. When the width of the glass < 70cm, it will automatically switch to up and down mode.



Quickly cleaning mode

After the machine goes up to the top wipe left and right



Deep cleaning mode

The machine goes up to the top and then left and right wipe and wipe up and down

illustrate

- ① After the machine adsorption is successful, the machine defaults to the fast cleaning mode for left and right cleaning.
- ② You can use the " " button on the remote control to pause and resume the work of the product.
- ③ In the paused state, the product movement direction can be controlled by the " " button on the remote control, and the product working path can also be switched.
- ④ In the deep cleaning " " mode, the product is cleaned "left and right" and then "up and down", and when the window width is less than 70CM, the machine defaults
- ⑤ " " IThe machine does not spray water when cleaning along the edges.

Notes:

- ① If the machine encounters an abnormal frame, it will cause data errors when probing the edges, resulting in a small error in the position of returning to the origin Ringing for normal use.
- ② After the rag is washed, please keep the rag flat when drying.

2. Safety Precautions

Series Number	classify	content
01	Safety considerations	1.Do not use it in rainy day or when the glass is wet and the glass is foggy.
		2.The ambient temperature of the product is recommended to be around 0° to 40°
		3.If external aerial work is required, a ground safety alert must be set up downstairs to prevent it accidental bodily injury.
02	The side is cleaned precautions	1.The side is cleaned Precautions.
		2. Please confirm that the glass size is greater than 50*50cm (height), and check whether the environment is ultra-narrow frame or beveled frame ultra-thin frame, beveled glass, bezel-free, or glass glue with unevenness, protrusion, leakage, notch, and other abnormal environments. ※ It is not recommended or needs to be guarded in the above cases, as it may cause falls.
		3. Do not use this product on glass that has been broken, advertising paper and bumps to avoid glass breakage and production product drop and other risks.
		4.It is forbidden to clean the surface with gaps to avoid the risk of falling due to insufficient product adsorption.
03	Precautions for preservation	1. This product should not be wetted. Liquids or vapors cannot be directed towards the device that houses the electrical components.
		2. Keep machines and accessories out of the reach of children.
		3. Do not place this product outdoors, in direct sunlight, in high temperatures and humidity, or in places with water.
		4. Do not place this product with flammable materials such as oil, gas, and flammable paint.

Series Number	Classify	content
04	Precautions for operation and use	1.Be sure to check whether the safety rope is damaged and fix it in an immovable place.
		2.Do not allow children to operate this product.
		3.Please use it on vertical glass, use it with caution on inclined glass, and it needs to be guarded, if necessary it is controlled by remote control.
		4.Always turn off the machine when cleaning the outer surface of the machine to avoid danger during machine movement.
		5.When the machine is turned on, do not let your fingers and any body parts close to the rotating part of the product openings. The power plug should be unplugged after use and during maintenance.
		6.Please use this product in accordance with the instructions, please contact customer service when the fault cannot be eliminated, do not repair it privately avoid danger.
05	Battery charging Precautions	1.When the red and blue lights flash when the machine is turned on, please charge the spare battery until the blue light is always on before using the machine.
		2.Please do not use third-party chargers and disassemble and modify the host, battery and charger without permission.
		3.If the charger is damaged or broken, please contact customer service. Keep the charger away from a heat source.
		4.If the product is to be transported, it is recommended to ship it in its original packaging and turn off the machine.
		5.If you do not use this product for a long time, please fully charge it and turn off the machine and place it in a cool and dry place, at least charge the battery every three months to avoid battery failure caused by over-discharge.
		6.Before the product is scrapped, the battery must be removed and scrapped in accordance with local laws and regulations and environmental regulations.
		7.If you need to scrap this product, please cut off the power of the product first, and then take the battery out of the product.
		8.Please dispose of used batteries in accordance with local laws and regulations and environmental regulations.

3. Troubleshooting

Series Number	Description of the troubleshooting		Resolution
01	The red light is always on	The machine is leaking and heavy	The machine needs to be removed and placed in a safe position to start.
		The machine is in a dangerous position	
02	Red Flashing Alarm	The power adapter is powered off	a.Turn on the power first, then press the start button, and the product continues to work. b.In the event of a power outage, use the arrow keys of the remote control to control the product to easy access to the place and remove the product. *There are certain risks associated with using the remote control in the event of a power outage, so make sure someone is there side care.
03	Product Track idle travel path abnormal	The glass surface is too dirty	a.Replace the rag b.Replace the cleaning cloth *This product is not suitable for cleaning heavily soiled glass

4. LED lighting effect

LED lights	meaning
Red and blue lights flash alternately	The safety backup battery is low and the product is charging.
Blue light constant	1.The machine is powered on normally.
	2.The machine adsorption is successfully entered into standby mode.
The blue light flashes	The machine is not adsorbed to the glass.
The red light flashes	The power adapter loses power during the cleaning process.
The red light is always on	The machine enters the shutdown state, shut down the machine, put it in a safe position, and restart the machine.

5. Technical parameters

project	parameters	project	parameters
Rated voltage	24V	Power off protects battery capacity	500mAh
Rated power	72W	Charging current	350mA