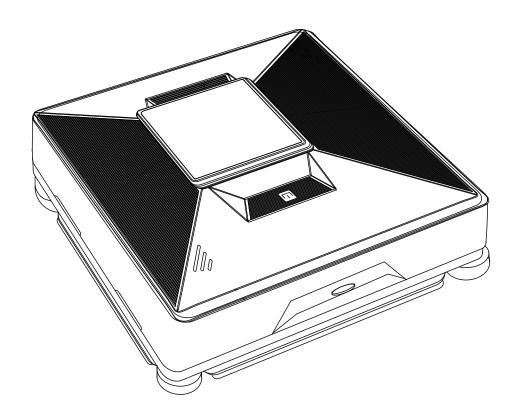
FEIDER



ROBOTIC WINDOW CLEANER

FRWC2

USER GUIDE

CAUTION: Read the instructions before using the machine!

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1. SAFETY INSTRUCTIONS

Attention! Must read before use

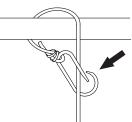
- Do not allow children to operate this product. Users with physical, sensory or psychological disorders, or those who lack knowledge of the functions and operation of this product must be supervised by a fully competent user after being familiar with the use procedures and safety risks. Users must use the product under the supervision of a fully capable user after familiarizing themselves ith the use process and safety risks. This product should not be used by children as a toy.
- Be cautious when using frameless glass. If the window or glass frame has a damaged silicone rubber edge, be sure to pay special attention to prevent the machine leaking and falling off during the cleaning process. User must observe the using scenario to ensure that the product is used safely.

Safety matters

- Please use the original adapter! (Using a non-original adapter may cause product failure or damage the product.)
- Make sure the adapter has enough space for ventilation and heat dissipation during use. Do not wrap the power adapter with other objects.
- Do not use the adapter in a humid environment. Please do not touch the power adapter with wet hands during use.
- Please charge the window cleaner at the voltage that the power adapter can withstand.
- Do not use a damaged power adapter, charging cable or power plug. Before cleaning and maintaining the machine, the power plug must be unplugged and do not disconnect the power by unscrewing the extension cord to prevent electric shock.
- Do not disassemble the power adapter; if the power adapter is faulty, replace the entire power adapter. For assistance and repair, contact your local customer service or distributor.
- This product battery if not handled properly, there is a risk of combustion or chemical discretion injury to the body. Please do not disassemble the battery, so as not to cause a short circuit. Please do not use in fire and high temperature environment above 60°C.
- Please hand over the used battery to the local professional waste battery product recycling center for recycling, the disposal and recycling of used batteries must comply with national laws and regulations.
- 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.
- Do not expose this product to sunlight and 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° C~ 40° C (32° F~ 104° F) ambient temperature.
- Do not clean damaged glass and objects with uneven surface, this product will not produce enough vacuum suction adsorption on uneven surface or damaged glass machine.
- 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 handling 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 any.

Attention!

Before use, please make sure that the safety rope is not broken and one
end is firmly connected to the machine. The other end should be securely
attached to other objects in the room to prevent the robotic window
cleaner from falling and injuring people or objects.



• 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 machine and make sure it is working during the working period. Please use caution and make sure that there is a user supervising the machine during the working period to prevent the machine from falling down and hurting people or objects.

Risk of electric shock

- Make sure the power is completely disconnected and the machine 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.
- Machine 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 damage.

Warnings

- Before operation, make sure to attach the safety rope and tie it securely to a stable indoor unit.
- Before turning on the machine, 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.
- When cleaning the glass of a window or door without a blocking table, please set up a safety warning area downstairs.
- Fully charge the built-in backup battery before use (green light on).
- Do not use in rainy or wet weather.
- Turn on the machine first and then place it on the window glass.
- Make sure the machine is safely attached to the window surface before before releasing your hands.
- Before turning off the machine, please hold the machine to avoid dropping it.
- Do not use this product to clean frameless windows or glass .
- Make sure the cleaning cloth is properly attached to the bottom of the machine to prevent air leakage when the window cleaner is adsorbed.
- Do not spray the machine or the bottom of the machine. spray water only on the cleaning cloth.
- Do not allow children to use the machine.
- Please remove any items on glass surface before use.
- Please let hair, loose clothes, fingers or other parts of body keep distance with the working parts of machine.
- Do not use the machine in area of flammable and explosive solids or gases.

2. PRODUCT DESCRIPTION & PARAMETERS

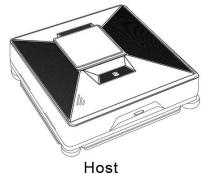
Product Description

1. The window cleaning robot is equipped with water spray holes on Left & Right. When the machine cleans to the left, the left automatically sprays water, and when the machine cleans to the right, the right automatically sprays water. A vacuum motor can allow the robot to freely walk on a vertical glass surface. The built-in uninterruptible power supply system (backup battery) can prevent robot from falling due to power outages.

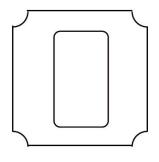
Specifications

| _ |
|---|
| AC100 - 240V, 50Hz - 60Hz, 1.5A |
| 24 V d.c. 3.0A, 72W |
| 14.8V d.c. 650mAh |
| 3.5 hours |
| 24 V d.c. 3A |
| 216*216*75mm |
| 2400-2800Pa |
| 1300g |
| 40min |
| Remote or smartphone APP |
| 65-70dB(A) |
| automatic |
| UPS (uninterrupted power supply system) / safety rope |
| Manual / Auto |
| 60ml |
| Manual / Auto |
| 2402-2480MHz |
| 1.34 dBm Max. |
| GFSK |
| 2.5dBi |
| PCB Antenna |
| |

Packing list







Clean cloth



Adapter + power cord



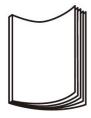
Adding water bottle



Safety rope

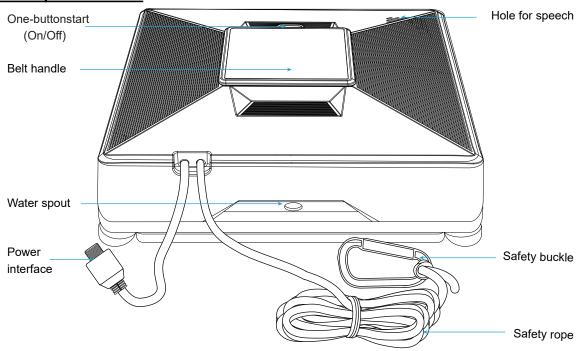


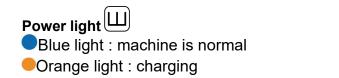
Remote control



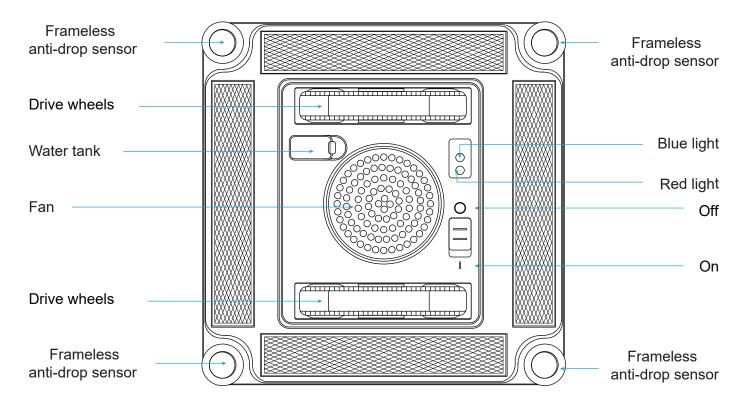
User Manual

Product component name





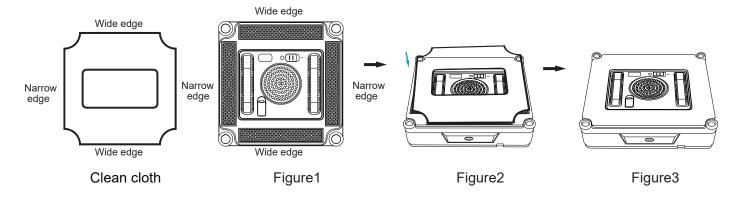
Red light : machine abnormalityGreen light : charging complete



3. USE STEPS

Install cleaning cloth

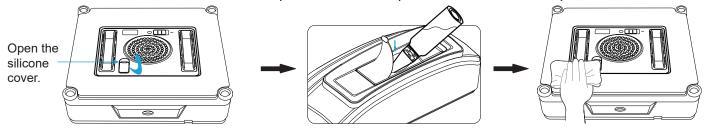
Attach the rag to the bottom of the fuselage correctly, making sure not to block the drive wheel and the anti-drop sensor. (Figure 1, Figure 2, Figure 3)



Note: When installing the rag, be sure not to cover the anti-drop sensors placed on the four corners of the machine. The covering may cause the machine to fall. (Do not completely wet the rag).

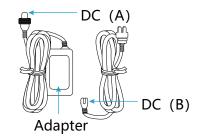
Inject water

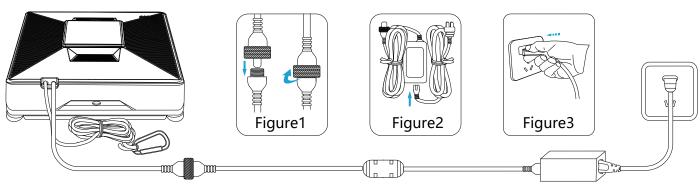
- A. Please do not add any other cleaning agents to the water tank.
- B. Turn the machine over, open the silicone cover, and add clean water, wipe off the water droplets on the robot
- C. Do not fill the water tank with water (80% is sufficient) to maintain stable air pressure.



Connect the main unit power cord, adapter an plug

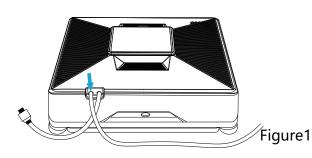
- A. Insert the DC connector (connector A) into the power interface of the machine, and tighten the nut. (Figure 1).
- B. Connect the DC plug (connector B) to the adapter. (Figure 2).
- C. Connect the power supply. (Figure 3)

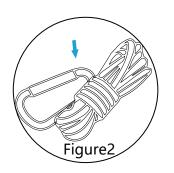


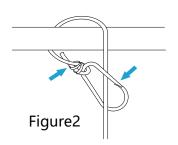


Fix the safety rope

- A. Check that the safety rope is not broken and the connection with the robot is firm. (Figure 1, Figure 2)
- B. Fix the other end of the safety rope on other objects in the room to ensure that the tightening will not be dropped or fall off. (Figure 2)

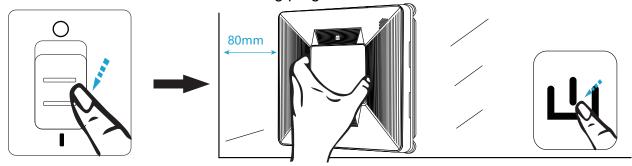






Start the robot

- A. Turn on the power switch
- B. Hold the handle and place the robot on the glass.
- C. press the "W" button to start the cleaning program.

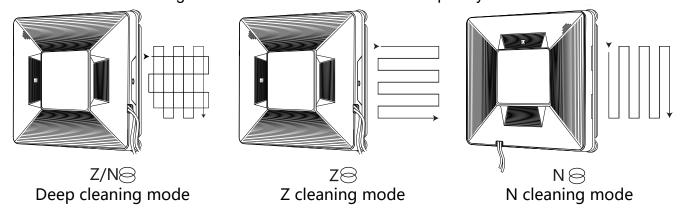


Warning: Before starting, please make sure that the four sides of the machine are at leas 80mm away from the glass frame or the corners of the window.

4. CLEANING FUNCTION

Cleaning mode

Select the three cleaning mode on the remote control to completely clear the window.



Water spray mode

The window cleaning robot is equipped with water holes on the left and right. When the machine is cleaned to the left, the left side will spray water automatically, and when the machine is cleaned to the right side, the right side will spray water automatically.

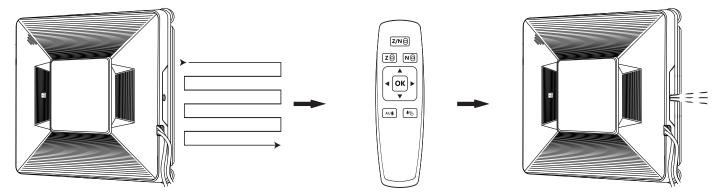
1. Automatic water spray AU

- A. When the robot starts cleaning, the automatic water spraying mode is turned on by default, with intermittent automatic water spraying.
- B. Press the automatic water spray button on the remote control, and the robot will make a beep, indicating that the automatic water spray mode is turned off.

C. Press the automatic water spray button on the remote control, the robot will make two beeps, and the automatic water spray mode has been turned on.

2. Manual water spray

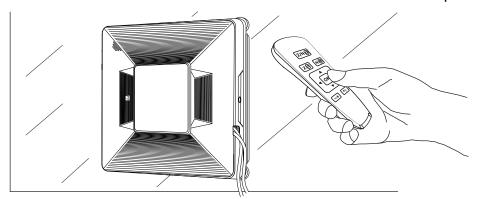
When the window robot is cleaning, press the Manual water spray button on the remote control and spray water once.



Fixed-point cleaning mode

A. Press the upper, lower, left and right direction button on the remote control to move the machine to the key cleaning position.

B. Press the OK button on the remote control for 2 seconds to enter the fixed point cleaning.

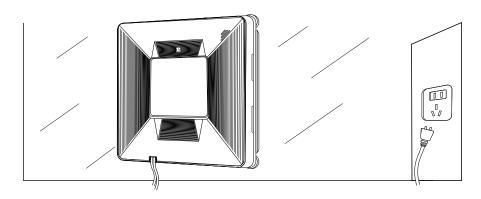


Power-off protection (UPS) function

A. In case of power failure, the window cleaning robot will start the built-in backup battery power, which can last for 40 minutes (when the battery is fully charged).

B. In case of power failure, the window cleaning robot will stay in the same place and will not move forward, the red lights will flash, at this time and will give a warning sound and, the user should withdraw the machine as soon as possible to avoid falling down due to power off.

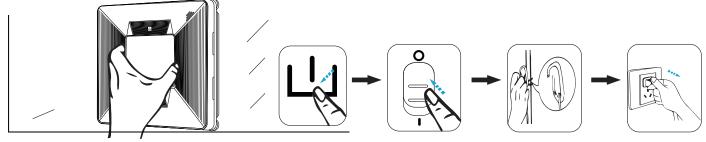
C. The safety rope can be used to gently pull back the robot, when pulling the safety rope, it should be close to the glass as far as possible to avoid falling.



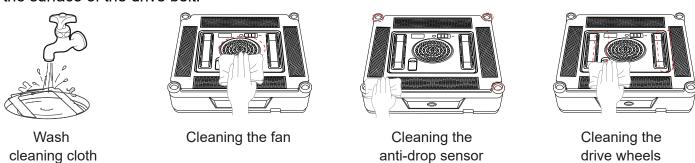
Cleaning completed

The window cleaning robot completes cleaning and returns to the starting Nearby point for easy Take down.

- A. When the robot is in a paused state hold the handle and remove the robot on the glass, press and hold the " u button for 2 seconds to off on the robot.
- B. Turn off the power switch **O**(Extend the life of backup battery).
- C. Unfasten the safety rope and buckle. remove the power plug.



Please flip the machine body flat and use a clean, dry cloth to wipe off the dust and other dirt on the surface of the drive belt.



5. 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/RL 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.

| | Z/N 🖯 | Z and then N-path automatic cleaning mode | (A) | Manual upward movement | Z/N 🖯 |
|---|----------|--|------------|---------------------------------------|---|
| - | z | Z-path automatic cleaning mode | • | Manual downward movement | Z N N N N N N N N N N N N N N N N N N N |
| | N 🖯 | N-path automatic cleaning mode | • | Manually move right | AU (a) |
| • | AU | Automatic water spray | • | Manual move left | |
| - | € | Manual water spray | (OK) | Start / Pause fixed point cleaning | |

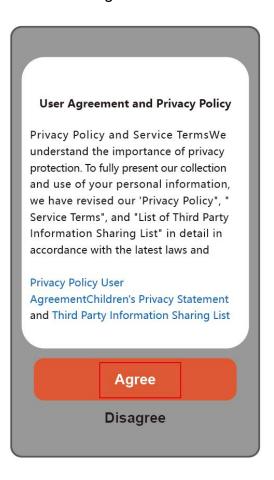
6. TUYA APP OPERATION GUIDE



- 1. Open the App store your phone.
- 2. Search for "Tuya" App.
- 3. Click to download and install.



- 4. Click to open the "Tuya" App.
- 5. Click on "Agree".



6. Type" and then click "Click Login"



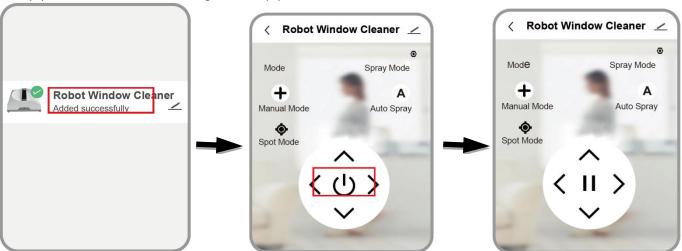
- 7. Turn on Bluetooth:
 - The robot connects power and open the bluetooth on smart phone.
- 8. Click on "Add Device":
 Make sure your device has entered pairing mode



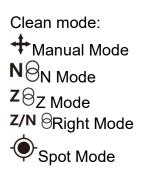
9. Click on "Done"

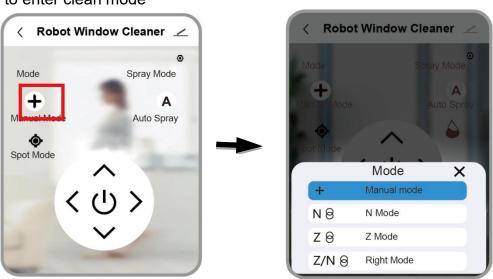


10. (1) Click "window cleaning robot" (2) Click "U" to start the robot.

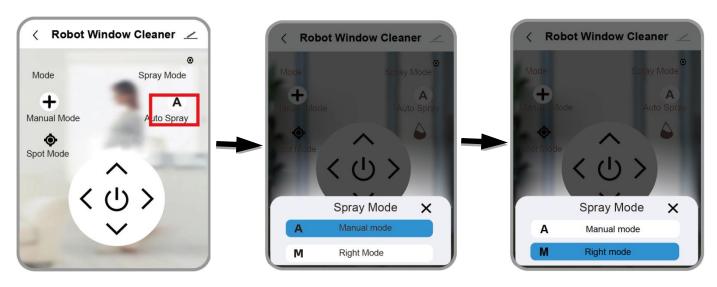


11. Click on Control panel to enter clean mode



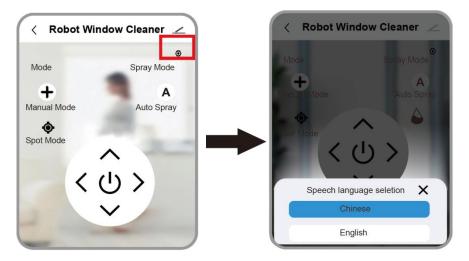


- 12. Click on the control panel to enter the water spray mode **A** Water spray mode:
- A Automatic Water Spray Mode
- M Manual Spray Mode



13. Click on the Control panel to access the Speech language selection.

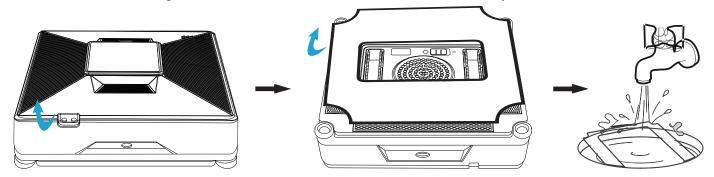
Speech language selection: Chinese English



7. PRODUCT MAINTENANCE

Maintenance of cleaning cloth

Please turn the body of the robot over and lay it flat and remove the rag, put it in cold water, add a small amount of detergent to clean it, wash it with clean water, and dry it.

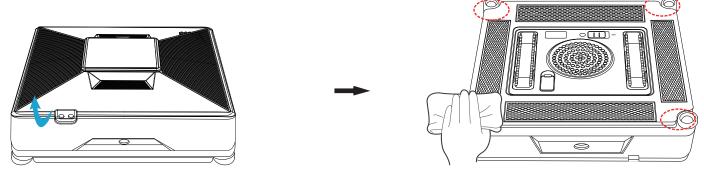


Note: Please do not use a completely drenched cloth to clean the windows.

This may make your machine stuck on the glass surface due to excessive moisture and cannot be moved.

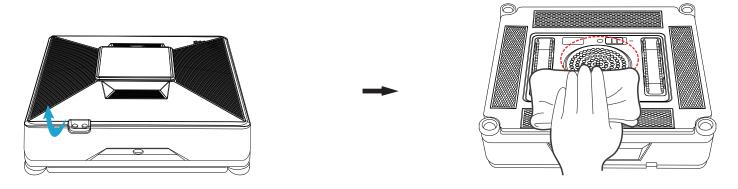
Frameless anti-drop sensor maintenance

Please turn robot over and lay it flat, then use a clean mop to wipe off any dust and other dirt from the frameless anti-drop sensor the robot.



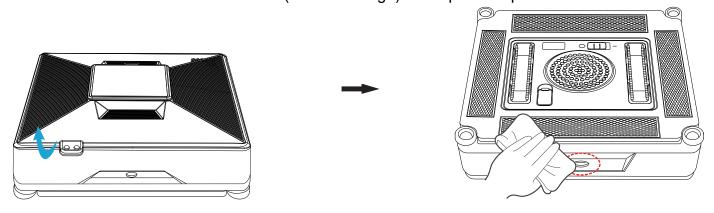
Fan maintenance

Please turn robot over and lay it flat, then use a clean mop to wipe off any dust and other dirt from the fan the robot.



Window cleaning robot does not spray water

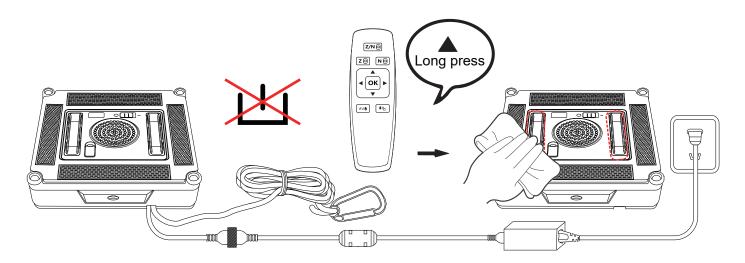
- A. Please confirm whether the water spray function switch is turned on.
- B. Clean the Atomizing plate nozzle with a clean soft cloth.
- C. Please check whether there is water in the water tank, and whether the added water is clean and free of impurities.
- D. Do not fill the water tank with water (80% is enough) to keep the air pressure stable.



Drive wheels maintenance

Please turn your robot body over and lay it flat, and wipe the dust and other dirt from the drive track table with a clean dry cloth.

- A. The robot is connected to the power (No need to start robot).
- B. Long press the remote control up \(\bigs \) Button and enter the robot drive wheels cleaning mode.
- C. Wipe the dust and stains on the drive wheels surface with a wet towel.
- D. Release the A Button on the remote control to exit the drive wheels cleaning mode.



8. TROUBLESHOOTING

| Fault status | Possible causes | The solution |
|--|---|--|
| Machine slippage. | Wiping cloth is too wet or the track is stained with water. | A. Replace the wiping cloth equipped with the machine.B. Dry the water on the track with a dry cloth.C. Clean the track wheel. |
| The machine is not running smoothly. | The glass is too wet or the glass surface with staining. | A. First use the remote control manually (up/down / left/right) in each direction to wipe the glass once, and then do further operations. B. Clean the track wheel. |
| During the operation of the machine,the top in glass over the frame longer continue to clean. | The machine hit the edge of the current misjudgement. | A. Use the remote control to manually remote control to a convenient operating position, and then do further operations. B. If the remote control is still unable to remote control the action, lightly pull the safety rope to manually move the machine to a convenient operating position. |
| Blue light and red light is always on buzzer does not sound. | The machine is not attached to the glass. | The machine is not attached to the glass. |
| The buzzer sounds two times in a row during the operation of the machine. | The machine probes the edge of the outside sensor senses the signal to move out of the glass edge frame | Ignore |
| Squeaking noise between the machine and the glass during operation | Anti-drop sensor dust too much dust accumulation in the track wheel too much. | A. Spray water to the glass surface or wipe the cloth B. Clean off the dust attached to the anti drop sensor C. Clean the crawler wheel. |
| The machine has not stopped at the starting position of the machine after the wiping action. | The friction force of each area of the wiped glass surface is different. | Attaching the machine to the glass surface. |
| The machine stops at a certain position in the process of operation, and the red light flashes. | Insufficient vacuum. | Check whether the wiping cloth is installed correctly |
| The machine cannot be started or the machine does not operate according to the preset path rules during operation. | The anti-drop sensor is abnormal and the track wheel accumulates too much dust. | A. Check whether the wipe is installed correctly. B. The anti-drop sensor is damaged. C. Clean the track wheel. |
| Blue light red light flashing, blue light does not light the buzzer continues to buzz. | Power supply power failure. | Check whether the power supply is disconnected or the machine power input Interface extension cable interface for poor contact (tightening nut is not tightened). |

| blue light red light flashing buzzer continuous interval of 1second second three. | TAb normal walking motor. | Contact after-sales service. |
|--|---------------------------|--------------------------------------|
| Tuya APP cannot search | Factory Settings were not | Ress the button on the machine for 3 |
| for the robot | restored | times to restore factory Settings |

9. PRODUCT CARE

When the product has reached the end of its life, it and the Li-lon battery should not be disposed of with general household waste. The battery should be removed from the product and both should be disposed of properly at a recognized recycling facility.

FOR HOUSEHOLD USE ONLY









Electrical products should not be discarded with household products. According to the European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation into national law, electrical products used must be collected separately and disposed of at collection points provided for this purpose. Talk with your local authorities or dealer for advice on recycling.

10. DECLARATION OF CONFORMITY

CE

BUILDER SAS

32 rue Aristide Bergès - Z.I. du Casque - 31270 Cugnaux - France Declares that the machine indicated below:

Designation: ROBOTIC WINDOW CLEANER

Model: FRWC2

Serial number: 20240712560-20240712659

Is in conformity with the European Directives:
Radio Equipment Directive 2014/53/EU
EMC Directive 2014/30/EU

ROHS Directive: (EU) 2015/863 amending 2011/65/EU

This product is also in conformity with the following standards:

EN 60335-1:2012+A11:2014+A13:2017+A1:2019+ A2:2019+A14:2019+A15:2021

EN IEC 60335-2-29: 2021/A1:2021

EN 60335-2-2:2008+A11:2010+A11:2012+A1:2013

EN 62233:2008

EN 50663: 2017; EN 62479: 2010 ETSI EN 301 489-1 V2.2.3 (2019-11)

ETSI EN 301 489-17 V3.2.4 (2020-09)

EN IEC55014-1:2021;

EN IEC55014-2: 2021

EN IEC 61000-3-2:2019+A1:2021

EN 61000-3-3:2013+A1:2019+A2:2021

ETSI EN 300 328 V2.2.2 (2019-07)

Philippe MARIE / PDG

Cugnaux, le 18/06/2024

Responsible of technical file: M. Olivier Patriarca

FEIDER



 ϵ

BUILDER SAS
32 rue Aristide Bergès - Z.I. du Casque - 31270 Cugnaux - France
Made in PRC