

User manual

# 1.Safety Instructions

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## 1.1 About the manual

Please follow the safeguard procedures below before using the product:

1. Read the manual carefully and use this product according to the instructions.
2. Take care of the manual for future reference.
3. Accompanying the manual if you transfer to third parties
4. Any operation outside of the instruction manual may cause unnecessary injury or damage to both you and the product.

## 1.2 About the power supply

1. Please use the assigned power adapter. Using other types of power line or adapter will cause fault or danger.
2. Turn the power off before product maintenance.
3. When using the adapter make sure no material is covering it, as the said material will block the cooling process of the adapter.
4. Don't use the power adapter in a highly humid environment. Don't touch the adapter when your hands or feet are wet
5. The power adapter is a high-voltage element. Don't try to maintain it by yourself.
6. Don't use the product if you find that the output, the extended wire or the plug of the adapter are damaged.

## 1.3 Product applicable scope

This robot is suitable for cleaning all kinds of smooth surfaces, including glass, floor, ceramic tile, marble, etc.

Safety and place of use are a subject of the user's own judgment and responsibility.

## 1.4 Note before use

1. Before use, you must fasten the safety rope, tie it to indoor fixtures, in order to avoid the danger of falling down.
2. Before use check if the safety rope is not damaged and the knot is not loose.
3. When cleaning the outside of the windows, where the product becomes a risk for other people due to falling, make sure pedestrians are notified about the danger zone beneath the device.

# 1.Safety Instructions

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4. The machine must be connected with the power supply when line when it is working.
5. Please use the machine when the built-in battery is fully charged (green light on).
6. Please open the power and place the machine.
7. When the machine is put on the glass, please make sure the machine is holding onto the glass?
8. Please turn off the power supply after taking the machine down.
9. Be cautious when placing the machine on frameless glass.
10. Set up the ring on the rotating wheel, in order to avoid leaking air.
11. Do not use the machine in rainy days or in highly humid weather
12. Do not spray directly on the machine.
13. Do not let children use the machine.
- 14.Do not let hairs, clothes, and any part of the body get close to the rotating parts
- 15.Do not let the machine suck any flammable liquid or gas, do not use the machine in the vicinity of combustible liquid and gas.

## 1.5 Disposal of battery and used batteries

1. If you need to replace the battery, please contact our after-sales service department. If you use the wrong battery type, it may lead to adverse consequences.
2. If there is any damage on the product due to the use of a battery or power adapter from another company, then the product is no more a subject of warranty repair.
3. Please dispose the old batteries of the remote properly, following the regulations of environment protection and put them into the recycling locations.

## 1.6 Packing material

1. Do not put the product's packaging materials as household garbage discarded.
2. Please send the packing material to the appropriate recycling locations to make use of these resources again.

## 1.7 Product problems.

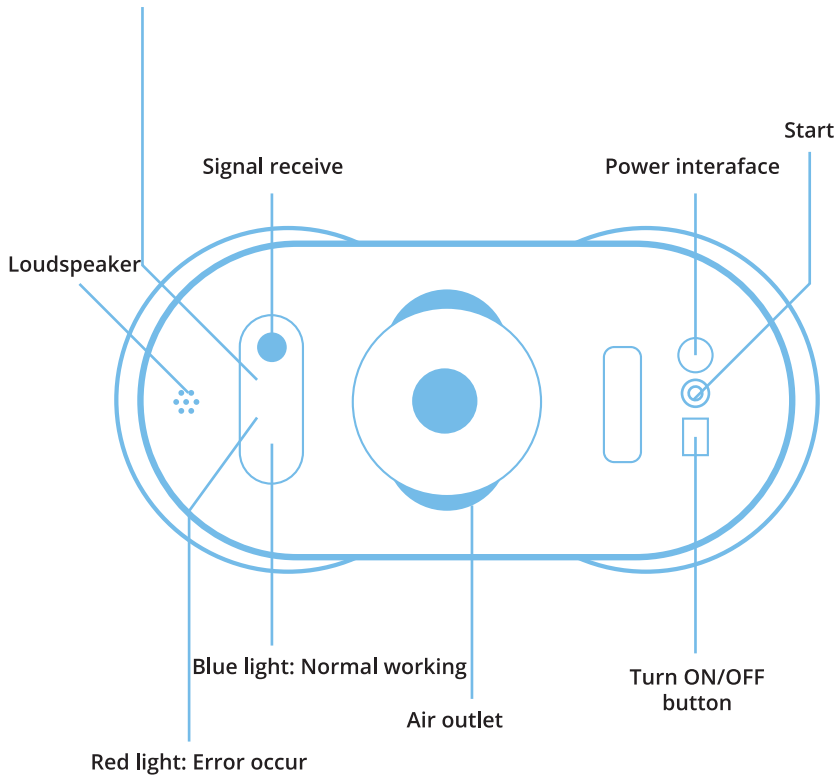
1. If the power cord is damaged or there is a failure of another part, please do not repair and disassemble the device by yourself, in order to avoid possible personal injury.
2. In case of any failure of the device, please contact our after-sales service department or the professional maintenance organization assigned by our company.

## 2.Product description

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The robot is a new generation of a single face cleaning robot. It has a vacuum motor that makes the machine attach to the surface of the glass, and move freely on vertical glass surfaces. With a built-in power supply system, it can provide electricity to prevent the falling due to loss of power. The robot has artificial intelligence, can plan its path by itself, detect window frame, clean the whole window automatically. The remote manual control mode let users control the machine freely.

Orange: Charging/Green:Fully charged



## 2.Product description

### 2.1 Product features

1. Can wipe windows of any thickness.
2. Artificial intelligence technology.
3. Automatic modes in 3 directions. Automatically cleans the whole window.
4. Stops automatically when the work is finished.
5. Built-in power UPS system. Power can be maintained for 30 minutes.
6. Avoid falling control.
7. Automatic detection of window frames.
8. Remote manual control mode.
9. Superfine fiber cleaning cloth.
10. High strength safety rope and hanging buckle.
- 11.2.4 G wireless remote control operation.
12. Power consumption :80W, 100-240VAC, 50-60HZ.

### 2.2 Main product and accessories

Robot×1  
Remote control ×1  
Transformer(100-240V, 50-60Hz)× 1  
AC power line ×1  
DC extension line(4M) ×1  
Cleaning cloth × 12  
Cleaning rings × 4  
Instruction Manual x 1

### 2.3 Product technical specifications

Product size	290*142*115 mm
Product weight	940 gr
Package	295*148*120 mm
Package weight	2.1 kg
Power adapter input	100-240VAC, 50Hz/60Hz
Power adapter output	24V/3.75A
Power adapter authentication	UL, CCC, FCC, CE, TUV, LPS, BUMI, PSE, KC, RoHS
Product power consumption	80W
Power AC terminal length	1.0 m

## 2.Product description

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Power extension cord	4.0 m
Safety rope length	4.5 m
Battery	4*Lithium battery, 3.7V
Battery working time	30 min
Battery life	2 years
Cleaning speed	2.5 min/m <sup>2</sup>

\*As the product is under constant development and improvement, MClimate reserves the right to make additional changes to the design, technology and all its characteristics.

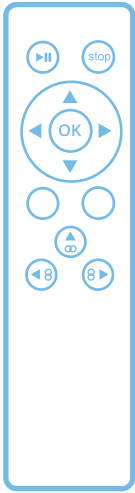
### 3.Product operation

#### 3.1 Touch buttons



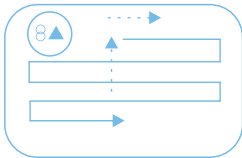
Turn ON/OFF

#### 3.2 Wireless remote control

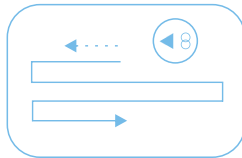


	Automatic clean up then down		Hand operation UP
	Automatic clean left then down		Hand operation DOWN
	Automatic clean right then down		Hand operation RIGHT
A	Unused		Hand operation LEFT
B	Unused		Start cleaning
	stop cleaning		Stop/Start cleaning

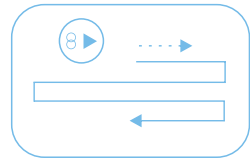
Three kinds of intelligent path planning model:



First up and then down automatic cleaning.



First left and then down automatic cleaning.



First right and then down automatic cleaning.

## 3.Product operation

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### 3.3 Product introduction

1. In order to use the machine, it must be connected to the power supply line.
2. How to place the machine on the glass before using:
  - (1) First, turn on the machine and make sure that the fan is working.
  - (2) Place the machine on the glass, and keep a distance from the window frame.
  - (3) Make sure that the machine is firmly/well attached to the glass and then turn on the cleaning regime.
3. How to remove the machine from the glass:
  - (1) When the machine is working, one hand hold the rope with one hand and remove the machine with the other.
  - (2) Move the machine to a safe area, and then turn the power supply off.
4. Safety rope and carabiner
  - (1) Before use, please check whether the safety rope is damaged, or the knot loose.
  - (2) Before use, please fasten the safety rope and attached to the fixtures in the house, using the carabiner.
5. Built-in UPS system
  - (1) When the power is off, the machine will start the built-in battery power, which will ensure power for 30minutes.
  - (2) When the power is off the machine will stop moving and stay in place , then make a warning sound. That will be indicated by a warning sound and a red flashing light. The user should remove the robot as soon as possible, in order to prevent it from falling. Soon as possible to avoid the machine's power exhaustion and then falls.
  - (3) Please use the safety rope to pullback the machine, when pull the rope, should get close to the glass to avoid falling.
6. The machine has a built-in battery for standby power supply. Before use, please make sure that the battery is fully charged(Green light is on).
  - (1) Turn off the robot from the power switch. As the power cord is connected, an orange light will indicate that the robot is charging.
  - (2) The green light indicates that the battery has been fully charged.
7. Others:
  - (1) Please keep in mind not to use the machine on frameless windows.
  - (2) Please make sure that the cloth is put on properly on the cleaning wheel, in order to avoid leakage.
  - (3) Please do not use the machine in rainy or humid weather.
  - (4) A warning area must be set up on the ground floor to prevent people from approaching when the machine is working on balcony glass doors and windows.



## 3.Product operation

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### 3.4 The use of clean ring/cleaning cloth

- (1) Put the clean cloth on the the clean ring.
- (2) Put the cleaning ring on the cleaning wheel and make sure that the 6 slots on the clean ring are well fixed to the cleaning wheel to avoid leakage.

### 3.5 Cleaning steps

- (1) First, dry clean the glass surface (do not spray any water or detergents), in order to remote the dust on the glass surface.  
If you spray water or detergent, without removing the dust firstly, the results will be unsatisfactory.  
Do not use the machine in rainy days or humid weather.
- (2) Please replace the cleaning cloth if it is even remotely wet as it will influence the machine's operation. Keep the upper cleaning ring clean and dry, then spray little alcohol or cleanser on the lower cleaning ring (1-2 times spray), it can eliminate arc trace.


## 4. Common concerns and solutions




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1. The robot performs a self-test before every operation. Not going smoothly or making a warning sound indicate for a friction problem.



Please check:

- (1) Whether the cleaning cloth is not clean.
- (2) Glass sticker is not suitable to use because of low friction.
- (3) Glass will be too slippery when it is too clean.
- (4) Glass will be too slippery after numerous wiping when the temperature is too low (in air-conditioned room).

2. The robot cannot detect the window's upper edge because of skid when you are using 

Answer: Please press , then use  or  automatic clean mode.

3. The robot can't clean the whole window, and finish the work ahead of time.

Answer Press  or  to use automatic mode to continue.

4. The robot slips down when it climbs, possible causes.

- (1) The friction is not enough.
- (2) The cleaning cloth is too wet.
- (3) The surface of the glass is too slippery.
- (4) The glass is too slippery after many cleanings in conditions of low humidity.

5. The robot is not moving smoothly, possible causes:

- (1) The cleaning cloth is too dirty, please change it.
- (2) If there are different regions on the glass, (glass area, sticker area, heat insulating sticker area) please use it in single area.
- (3) If the clean wheel screw is loose, please lock it.

6. After cleaning, round traces are left on the surface of the glass.

Solution: The clean cloth is too dirty ,please change it and then wipe once again.

7. The robot stops working because of power outages. It makes warning sounds and the red light flashes.

- (1) Please use the safety rope to to pullback the machine.
- (2) Turn off the machine power switch.
- (3) Check whether the wire is not damaged and whether there is good connection.

## 4. Common concerns and solutions

8. The robot stops with an unidentified object, issues warning sound, red light flashes, how to deal with the robot to secure position, or use the safety rope to pull back the robot.


- (1) Remote when pulling the rope, should get close to the glass to avoid falling.
- (2) Remove obstacles on the doors and windows.
- (3) Check if there is a cause for the leak.

9. Start the robot, the robot does not work, no alarm.

	LED lights	Robot condition
1	Blue light: Flashing Orange light: Active Red lights: Turned OFF Alarm: Turned OFF	The battery voltage is too low, please used it after fully charged (green light). If charge for more than 8 hours, the situation is still the same, indicates the battery is broken.
2	Blue light: Flashing Red light: Flashing Alarm: Turned OFF	Contact our after-sales department or ask local dealer or repair.

10. There are circular traces left on the surface of the cleaned glass, visible on night light.

- (1) Always wipe the dust off, using a dry cloth to remove dust.
- (2) Second wipe, please change a clean cloth, keep the upper part of the wheel dry and clean, spray a little cleaning agent or alcohol(1-2 spray can be) on the lower part, not all wet, can eliminate the arc trace. All wet cleaning cloth will affect the operation of the robot.

11. The robot has cleaned the window, but it can't stop automatically.  
Solution: Press the  button to stop it.


### Need some help?



For more product information and issues related to it, visit:

[support.mclimate.eu](http://support.mclimate.eu)

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