

# RoboPower

## WW2

Robotic window cleaner



# USER MANUAL

# Contents

<b>1. Important Safety Instructions and Warning</b> .....	1
1.1 Note .....	1
1.2 Safety Information .....	1
1.3 Risk of Electric Shock .....	2
1.4 Warning .....	2
<b>2. Product Description &amp; Parameters</b> .....	3
2.1 Product Diagram .....	3
2.2 Product Parameters .....	4
2.3 What's in the Package .....	4
2.4 Remote Control .....	4
<b>3. Installation</b> .....	5
3.1 Assemble the Adapter .....	5
3.2 Fix the Safety Rope .....	5
3.3 Attach Cleaning Pad .....	5
3.4 Connect to Power Supply .....	6
<b>4. Operate</b> .....	6
4.1 On/Off Button .....	6
4.2 Start .....	6
4.3 Stop/Pause .....	6
4.4 Use of Remote Control .....	6
4.5 Take off <b>WW2</b> after Cleaning.....	7
4.6 Use APP on Your Smart Phone .....	7
<b>5. Maintenance</b> .....	7
5.1 Cleaning Pad Maintenance .....	7
5.2 Fan Maintenance .....	7
5.3 Edge Sensors Maintenance .....	7
5.4 Driving Treads Maintenance .....	7
<b>6. Troubleshooting</b> .....	8
<b>7. Disclaimer</b> .....	9
<b>8. Product Warranty</b> .....	9
<b>9. Exclusions</b> .....	9
<b>10. The Environment</b> .....	9

# 1. Important Safety Instructions and Warning

## 1.1 Note! - Read all documents before using

The appliance is not to be used by children. Persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge may only use this appliance if they are supervised or have been given instruction about how to use it safely and understand what risks are involved. Children should be supervised to ensure they do not play with the robot.

**!!!** The appliance is for window cleaning with Frames (Frameless glass/window cleaning is not applicable). Users should judge and use it safely on proper operation sites, and be responsible for all possible consequences.

## 1.2 Safety Information

Application of Power Adapter and Batteries

- ▶ Use only the power adapter supplied with this device. Use of other type of power adapter will result in malfunction and/or danger.
  - ▶ Please use the proper electric outlet and make sure no heavy objects are placed on the power adapter or power cord.
  - ▶ Allow adequate ventilation around the adapter when using it to operate the device. Do not cover the power adapter with objects that will reduce cooling.
  - ▶ Do not use the adapter in a high moisture environment. Never handle the adapter with wet hands.
  - ▶ Connect the adapter to a proper power source. The voltage requirements are found on the adapter.
  - ▶ Do not use broken adapter, power cord or plug. The plug must be removed from the receptacle before cleaning or maintaining the Appliance. Do not unplug the Power Adapter by pulling on the power cord.
  - ▶ Do not attempt to service the adapter. There are no service parts inside. Replace the whole unit if it is damaged or exposed to high moisture. Consult your Mamibot dealer for help and maintenance.
  - ▶ The battery used in this device may present a risk of fire or chemical burn if mistreated. Do not disassemble, short contact, heat above 60 °C (140 °F), or incinerate.
  - ▶ If you have to dispose of this old equipment, please take it to the local recycling center for recycling electrical and electronic parts.
  - ▶ Retain the safety and operating instructions for future reference.
  - ▶ Follow all operating and use instructions.
  - ▶ Do not expose your device to rain or excess humidity, and keep it away from liquids (such as beverages, faucets, and so on).
  - ▶ Avoid exposing your device to direct sunlight or intense light source, and keep it away from heat source (such as radiators, space heaters, stoves, and so on).
  - ▶ Do not place the device in the vicinity of strong magnetic fields.
  - ▶ Keep the device and accessories away from children.
  - ▶ Product operating temperature: 0 °C ~40 °C (32 °F ~104 °F).
  - ▶ Don't use it cracked glass or clean other surface with uneven area as it may fall off due to insufficient suction power
  - ▶ The Back-Up Battery must be replaced by the manufacturer or its service agent in order to avoid a hazard. The Back-Up Battery must be removed and discarded according to local laws and regulations before disposal of the Appliance. Please dispose of used batteries according to local laws and regulations.
  - ▶ The Appliance must be disconnected from the receptacle before removing the battery for disposal of the Appliance.
  - ▶ The Appliance must be used in accordance with the directions in this Instruction Manual.
- Product manufacturer cannot be held liable or responsible for any damages or injuries caused by improper use.

# 1. Important Safety Instructions and Warning

## 1.3 Risk of Electric Shock!

- ▶ Always switch the device off before carrying out any cleaning or maintenance work.
- ▶ Never pull the power plug out of the socket by the power cord; instead, pull it out by the power plug itself.
- ▶ Never perform repairs on your device yourself. Repairs to electric devices may only be carried out by authorized customer service center.
- ▶ Do not insert any pointed objects into the electric contacts.
- ▶ Do not change the contacts.
- ▶ Do not continue to operate the robot if the device itself or the power cord is damaged
- ▶ Contact your local customer service in the event of damage.
- ▶ Do not clean the robot, the power cable in water or other liquids.
- ▶ Do not use the robot on damp ground or in places in which it can get into contact with liquids or be immersed in water.
- ▶ Do not use the robot in hazardous areas such open fireplaces, running showers or swimming pools.
- ▶ Make sure that you do not damage, bend or twist the power cord. Do not place any heavy objects on top of the cord. This could damage the power cord and cause a fire or electrical shock.

## 1.4 Warning



WARNING: This appliance is only to be used with the power supply unit (Model no: GM95-240375-F)

The appliance contains battery that are only replaceable by skilled persons

1. Fasten the safety rope and tie to indoor fixture before operating the device.
2. Check if the safety rope is broken or the knot is loose before operating the device.
3. Set danger-warning area downstairs for no-balcony window and door.
4. Battery shall be full-charged (Orange lamp ON) before using.
5. Do not use it in rainy or moist day.
6. Turn power on before put device onto glass.
7. Make sure the device can stick and stand on glass surface while put onto glass.
8. Before turn power off, please hold the device.
9. Do not use it on frameless glass.
10. Make sure put cleaning pad on the bottom of device correctly for no leakage.
11. Do not spray or pour water onto device.
12. Prohibit children from using this device.
13. Remove everthing on the glass. Do not use on cracked glass. Reflective or coating glass might be slightly scratched due to dirt on the glass while operating.
14. Keep hair, loose clothing, fingers, and all parts of body away from the openings and moving parts.
15. Do not use in areas with existed flammable or combustible liquids, gas.

### Scan QR Code for APP downloading from here:

※ IOS System:

Requires iOS 7.0 or later. Compatible with iPhone iPad, and iPod touch.

※ Android System:

Requires Android 4.3 or later, bluetooth 4.0 or later.

Notes:

Make sure the **WW2** is switched on before connecting; If it is not connected succesful, turn off the APP from cellphone background, try again later.



Google Play



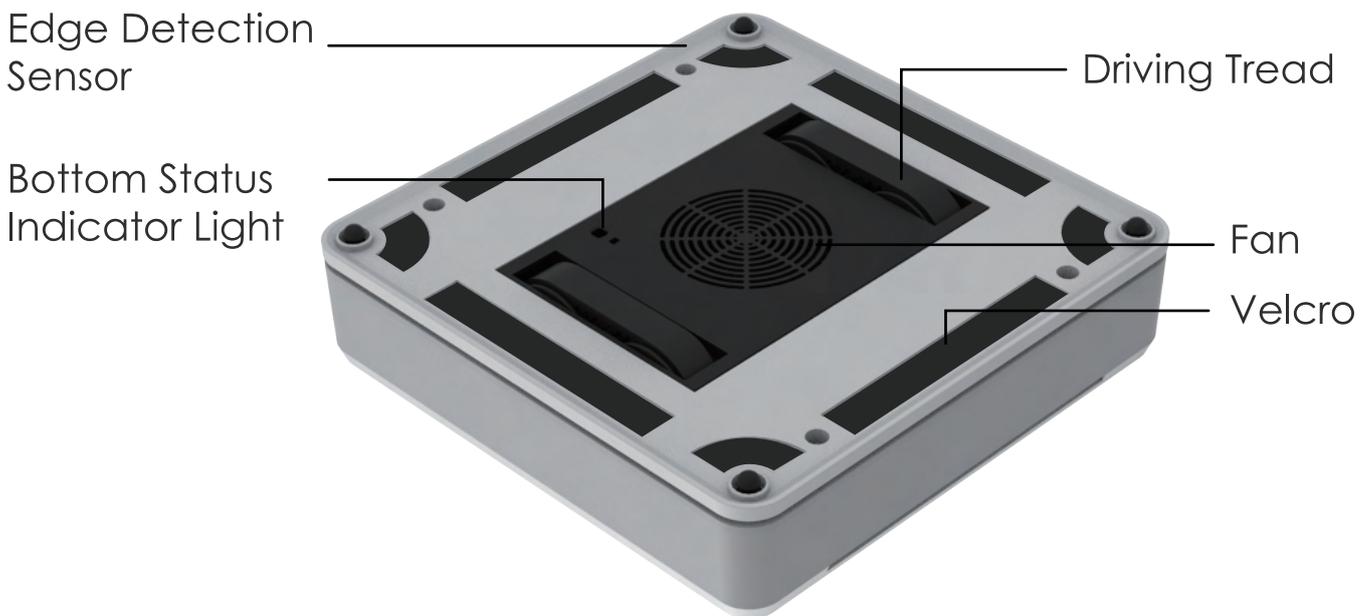
Android System



iOS System

## 2. Product Description & Parameters

### 2.1 Product Diagram



## 2. Product Description & Parameters

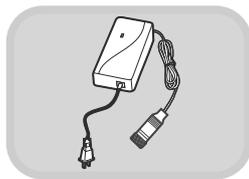
### 2.2 Product Parameters

About The Robot			
Model No.	M188	Rated Voltage	DC 24V
Rated Power	75W	Noise Level	About 65dB
Battery Capacity	650mAH	Charging Time	About 1h
Dimension	25*25*8cm	Net Weight	1.35Kgs
Cleaning Speed	About 2.5min/sqm		
Adapter			
Input	AC 100-240V 50/60Hz 2.0A	Output	24V/3.75A

### 2.3 What's in the Package?



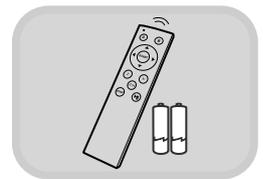
WIN660



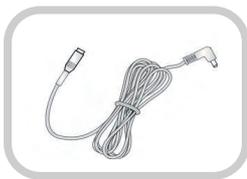
Adapter



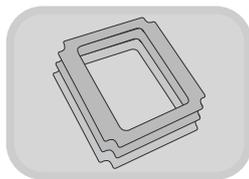
User Manual



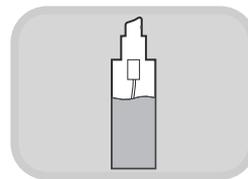
Remote Control



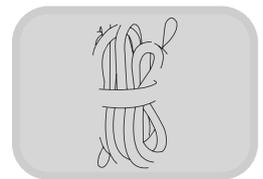
Extension Cable



Cleaning Pads



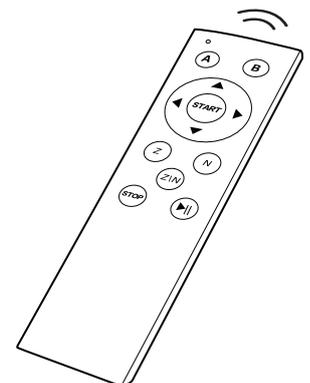
Cleaning Solution



Safety Rope

### 2.4 Remote Control

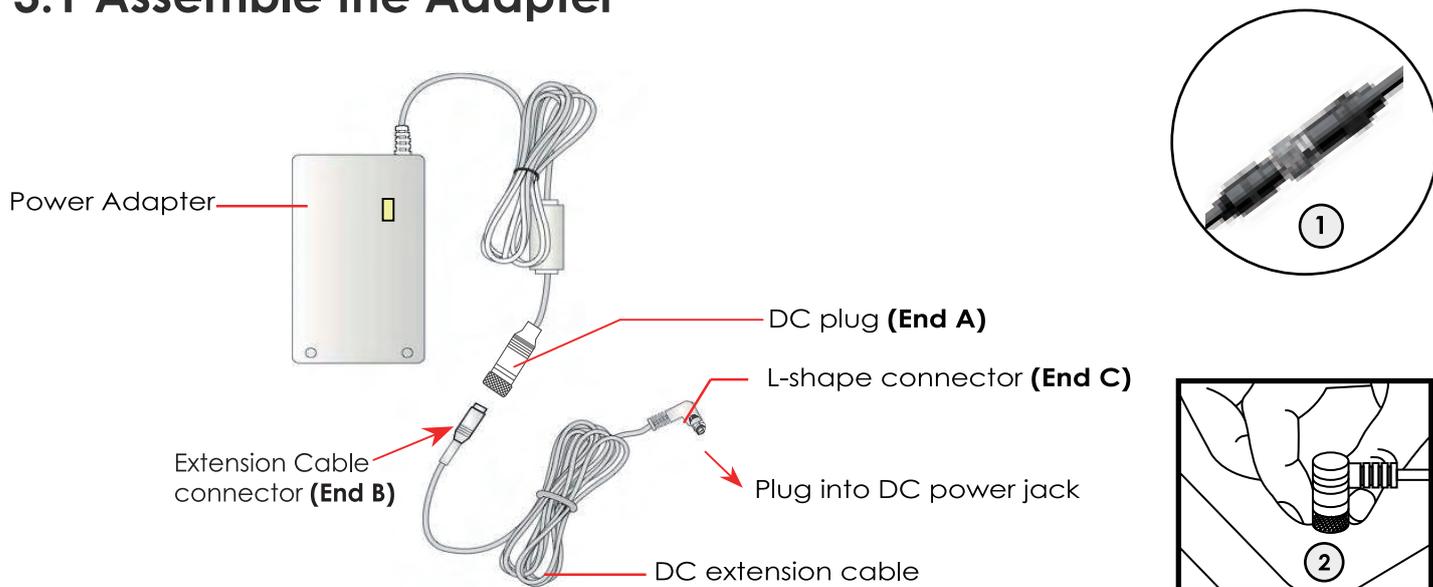
Z	Automatically "Z" Type Cleaning	▲	Manual Move UP
N	Automatically "N" Type Cleaning	▼	Manual Move Down
Z/N	From "Z" to "N" Cleaning	►	Manual Move Right
A	No Use Yet	◄	Manual Move Left
B	No Use Yet	Start	Start Cleaning Choose "Z" or "N" type automatically
STOP	Stop Cleaning	►	Stop/Restart



※It is 2.4G wireless remote control, which can control your robot within maximum 15 meters away from any direction

### 3. Installation

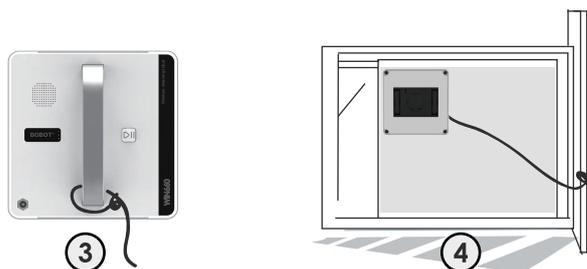
#### 3.1 Assemble the Adapter



- A. Connect DC plug (END A) of Power Adapter with extension cable (End B), as above ①  
B. Connect End C to the robot power socket, screw the connector until it's tightly locked ②

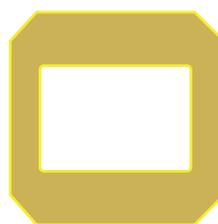
#### 3.2 Fix the Safety Rope

- A. Put the safety rope through the handle and make a tight knot. ③  
B. Tie the other end of the rope to indoor fixture securely. ④

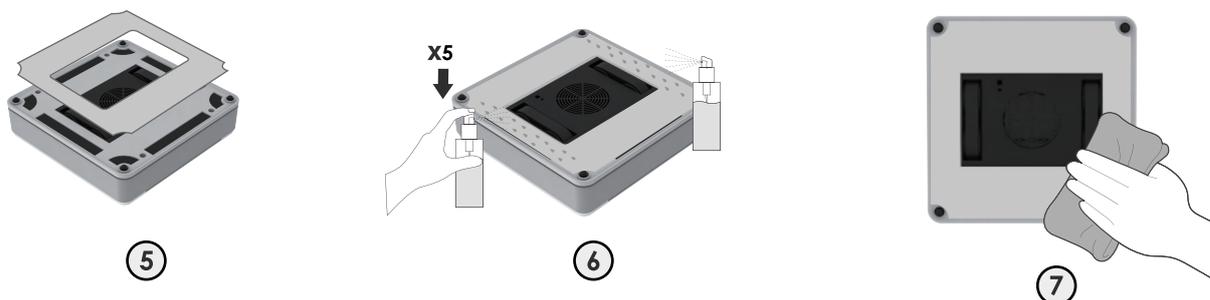


#### 3.3 Attach Cleaning Pad

- A. Attach the cleaning pad to WW2 bottom properly, the pad should not cover driving treads or edge sensors. ⑤  
B. Spray 5 times of cleaning solution to the upper and lower side of WW2 ⑥ wipe the bottom after spraying. ⑦



Yellow Cleaning Pad



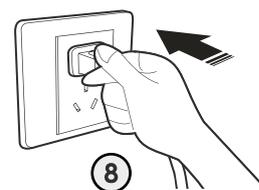
## 3. Installation

### 3.4 Connect to Power Supply

Plug in WW2 ⑧

#### Important Notes:

Be sure your WW2 is always connected to AC power supply while working  
 Don't use it if the backup battery is lack of power, use it after full charging.  
 Take off your WW2 asap if the power supply is cut or unplugged accidentally



## 4. Operate

### 4.1 On/Off Button

A. Power On/Off button - Press for 2 seconds to turn on/off your WW2.

B. Press the On/OFF button once to start or stop the WW2 when it is placed on window



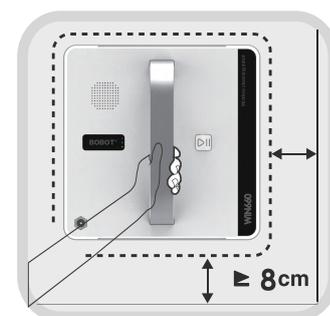
### 4.2 Start Your WW2

A. Press the On/Off button for 2 seconds to turn on.

B. Place your WW2 on glass, press again the On/Off button to start.

C. You can also start it from your remote control "START" button.

**Caution:** Before starting, make sure the edge of WW2 is 8cm or more away from window frames or corners



### 4.3 Stop/Pause

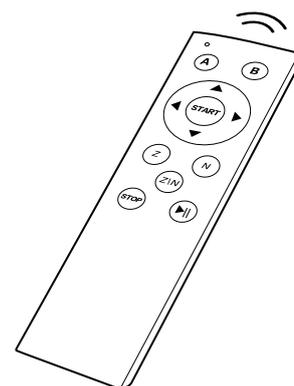
A. When WW2 is cleaning, press **On/Off** (▶||) button on the device or the **Stop** (STOP) button on remote control to stop it.

B. When WW2 is cleaning, press **Pause** (▶||) button on remote control to pause/restart it.

C. You can also start it from your remote control **START** (START) button.

### 4.4 Use of Remote Control

Ⓩ Automatically "Z" Type Cleaning	▲ Manual Move UP
Ⓝ Automacitally "N" Type Cleaning	▼ Manual Move Down
Ⓩ Ⓝ From "Z" to "N" Cleaning	▶ Manual Move Right
ⓐ No Use Yet	◀ Manual Move Left
ⓑ No Use Yet	Ⓢ Start Start Cleaning Choose "Z" or "N" type automacitally
Ⓢ STOP Stop Cleaning	▶   Stop/Restart



## 4. Operate WW2

### 4.5 Take off WW2 after cleaning

WW2 will return to its starting point automatically after cleaning is finished. There is beep warning when cleaning is complete.

- A. Use remote control to move your WW2 to a reachable location;
- B. Press On/Off Button for 2 seconds to switch it off;
- C. Grasp the handle and take it off from the window;
- D. Untie the safety rope after finishing cleaning. Put the device and its spare parts in dry condition for future use.

### 4.6 Use APP on Your Smart Phone

- A. Download App for your IOS/Android phone (refer to page 2 to scan and download, or search for " Wincleaner " in your Appstore or googleplay).
- B. Turn on BLUETOOTH on your cellphone, and open Wincleaner APP on your phone.
- C. Click the BLUETOOTH ICON on your Wincleaner interface to search device, and connect your WIN660 with your phone, you can control it through cellphone now.

## 5. Maintenance

### 5.1 Cleaning Pad Maintenance

Put your WW2 up-side-down, take off the cleaning pad and put it into cold water, wash the cleaning pad with detergent and dry it for reuse.

Note: wet cleaning pad is not suggested to be used as it may get your robot stuck when cleaning glass with heavy dirty.

### 5.2. Fan Maintenance

Put your WW2 up-side-down, use a clean and dry cloth to wipe out dirt/debris on the fan.

### 5.3 Edge Sensors Maintenance

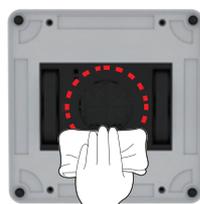
Put your WW2 up-side-down, use a clean and dry cloth to wipe out dirt/debris on the sensors.

### 5.4 Driving Treads Maintenance

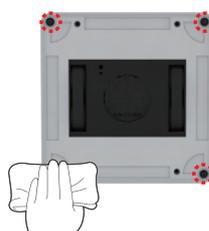
Put your WW2 up-side-down, use a clean and dry cloth to wipe out dirt/debris on it.



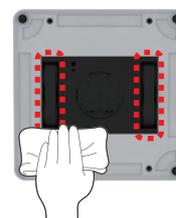
Wash  
Cleaning Pad



Clean Fan



Clean Edge  
Sensors



Clean Driving  
Treads

## 6. Troubleshooting

Malfunction	Possible Causes	Solutions
The device gets slippery or works in irregular pattern.	A. Glass is too dirty or too wet. B. Cleaning pad is too dirty or too wet.	A. Change cleaning pad B. Cleaning the driving treads C. Use remote control to manually restart it.
The device stops with flashing Red indicator light.	Insufficient suction power.	A. Check if the cleaning pad is attached properly, replace it correctly. B. Check if any crack on the glass. C. Check if the glass frames are with uneven area/rubber part. If there is uneven area or uneven rubber part on the glass, use remote control to operate the device manually and keep the W120 away from the uneven area/uneven rubber part when cleaning.
The devices can't be started after switched on, or works in irregular pattern.	Edge detection sensor abnormal.	A. Remove the Cleaning Pad and reattach it making sure it is placed exactly within its Velcro area and does not cover the Edge Detection Sensors. B. Open APP on your phone, connect it with the robot and find out if any RED indications on the corners of APP interface (Red indications on the APP interface means the edge sensor is malfunctioned). C. Edge detection sensors failure, contact after-sales service.
Red indicator light flashes, buzzer beeps once/second	Improper connection of Power Supply.	Check if the plug is connected well, or the screws of the extension cables are placed tight.
Both Red and Blue indicator lights flash.	Hardware failure.	Contact after-sales service.
Remote control does not work.	A. No battery inside or battery has low power; B. Remote control is broken.	A. Change the battery. B. Replace the remote control with new one.
The device got stuck on glass frames.	Edge-detection misjudgement.	A. Press STOP on remote, move the device to reachable location first B. Pull the robot lightly to reachable location if can't remote control it.
Both Red and Blue Light on, no beeps	The device is not sucking properly on window	Put the device on window surface manually, make sure it sucks on the window properly.
Buzzer beeps twice when it's in use	Edge sensor detects frameless glass.	It's normal if it is cleaning frameless glass.
Squeaky sound when it's in use	Glass is too dry or edge detection sensors are too dirty.	A. Spray a little water on the cleaning cloth. B. Clean the edge detection sensors and operate again.
The device doesn't return to Starting Point after cleaning	The glass surface's friction index is different.	Use remote control to direct the device return to reachable location.

## 7. Disclaimer

The manufacturer makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties, merchantability, or fitness for any particular purpose.

Further, the manufacturer reserves the right to revise this publication and to make changes from time to time in the contents hereof without obligation of this company to notify and person of such revision or changes.

The place and safety of this glass cleaning tool usage must be judged and responsible by user. But also need to follow the instructions in this user manual.

## 8. Product Warranty

If there are defects in your **WW2** glass-cleaning robot due to faulty materials, workmanship or function within warranty period from the date of purchase or delivery, please contact your local retailers or local authorized dealers for repair or replacement.

## 9. Exclusions

This warranty will automatically become null and void and shall not be applicable to any purchased products if:

- Normal wear and tear (e.g. cleaning cloth, safety rope, etc).
- Reduction in battery discharge time due to battery age or use.
- Damage caused by assembling or installing that not in accordance with the instructions of manufacturer.
- Damage caused by using the glass-cleaning robot for any other purposes than normal domestic household.
- Damage caused by using parts and accessories which are not specified by the manufacturer.
- Damage caused by accident, abuse or misuse.

## 10. The Environment



The symbol on this appliance indicates that this appliance may not be treated as household waste. Instead it must be handed over to the applicable collection point for the recycling of electrical and electronic equipment. Disposal must be carried out in accordance with local environmental regulations for waste disposal. For more detailed information about treatment, recovery and recycling of this appliance, please contact your local city office, your household and waste disposal service or the shop where you purchased the appliance.

**CE** This appliance complies with the European Directives 2014/30/EU, 2014/35/EU, and 2014/53/EU.

Subject to change without notice.

Manufacturer: BOBOT (USA) TECHNOLOGY CO., LIMITED

Address: 61 Willet St. Unit #qq, Passaic, NJ 07055

Made in China, designed in USA

# RoboPower

## WW2

Robotic window cleaner



# USER MANUAL

# 1. 重要安全事项及警示

## 1.1 注意! - 使用前必读

请勿让儿童操作本产品。身体、感官或者心理患有疾病的用户、对本产品功能及操作缺乏了解的用户必须在熟知使用流程及安全风险后在有完全行为能力的用户监督下使用。儿童不可把此产品做为玩具。

!!! 请仅用本产品清洁有框窗户和玻璃（此产品不适用于无边框的窗户和玻璃清洁）。如果窗户或玻璃边框的硅胶/橡胶边有损坏，请一定特别注意，以防机器在清洁过程中会漏气掉落。用户必须对使用场景自行判断，并自行承担一切可能的后果。

## 1.2 安全事项

### 适配器及电池使用安全事项

- ▶ 请使用原装适配器。使用非原装适配器有可能引发产品故障或者损坏产品。
- ▶ 请确保勿将任何重物放置于适配器和充电线上以免压坏。
- ▶ 使用中确保适配器有足够空间通风散热。不要用其它物体包裹住适配器，会增加发热的风险。
- ▶ 请不要在潮湿环境中使用适配器。绝对不要用湿手接触适配器。
- ▶ 将适配器通电，适配器铭牌上有使用电压标识。
- ▶ 请不要使用损坏的适配器，充电线或者插头。对机器进行清理和维护前，请一定将插头断电拔下。不要通过拧脱延长线的方式断电，一定要拔掉电源插头，以防触电。
- ▶ 不要拆解适配器。若适配器出现故障，请更换整个适配器。如需帮助和维修，请联系当地客服或者经销商。
- ▶ 本品电池若处理不当，有燃烧或者化学灼伤身体的危险。请不要拆解电池、造成电池短路、丢入火中或者在60度以上的环境中使用。
- ▶ 请将废旧电池交于当地专业电池电子产品回收中心回收。
- ▶ 请保留本说明书以供今后使用。
- ▶ 请严格遵照本说明书使用本产品。
- ▶ 请勿弄湿本品或者长期置于潮湿环境中，请保持产品远离液体（如啤酒、水、饮料等）。
- ▶ 请勿暴晒本产品，并保持本品远离热源（如散热器、加热器、微波炉、燃气灶炉等）。
- ▶ 请勿将本品置于强磁性场景中。
- ▶ 请将本品存放于儿童够不着的位置。
- ▶ 产品使用时环境温度: 0°C~40°C(32°F~104°F)。
- ▶ 请勿清洁破掉的玻璃和表面不平整的物体。在表面不平或者玻璃受损机器将无法产生足够的真空吸力吸附。
- ▶ 本品内置电池只能由厂家或者指定经销商/售后中心更换，以免产生危险；废旧电池的处理和回收必须遵守相关国家法律法规执行。
- ▶ 拆卸电池或处理电池之前，必须确保机器插头拔掉，电源完全切断。
- ▶ 请严格按照使用说明操作本品。厂家不会对因不当使用造成的任何财产损失和人身伤害担负任何责任。

**注意！极为重要：**

**使用前请务必确保：**

1. 产品的安全绳一端妥善套住机身把手，另一端稳固套住室内其它物体，以免掉落伤人或者伤物；
2. 如果窗户的玻璃胶因长年老化出现中间段有脱落、或者四角有缺口等，请谨慎使用并保证机器工作期间用户就在附近，以防机器掉落受损或者伤人伤物。

# 1. 重要安全事项及警示

## 1.3 谨防触电风险！

- ▶ 在清洁机身或维护机身之前，确保电源完全断开，机器关机。
- ▶ 不要通过延长线拖拽电源插头，断电应该正确拔掉电源插头。
- ▶ 请勿自行对产品进行维修。产品维修必须由授权的售后中心或者经销商进行。
- ▶ 若机器损坏/电源损坏，请勿继续使用。
- ▶ 机器损坏，请联系当地售后中心或者经销商进行维修。
- ▶ 请勿用水清洗机身和电源适配器。
- ▶ 请勿在潮湿、有水或其它液体的场景中使用本品，以免进水导致机器故障或者发生触电危险。
- ▶ 请勿在如下危险区域使用本品，如有明火、开着喷头流着水的卫生间、游泳池边等。
- ▶ 请绝不要毁坏、扭曲电源线。不要将重物压在电源线上或者适配器上，以免引起电源线损坏、火灾或者触电。



## 1.4 警告

1. 操作前，请确保套好安全绳并将安全绳牢固系于稳固的室内装置上。
2. 开机前，检查安全绳是否有破损，打结是否稳固。确保无破损并打好结以后再使用。
3. 在清洁无阳台的窗户或门的玻璃时，请在楼下设置安全警示区域。
4. 使用前将内置备用电池充满电（橙色灯亮）。
5. 请勿在雨天或者潮湿天气下使用。
6. 先开机，再将机器置于窗户玻璃上。
7. 确认机器安全吸附于窗户表面以后再放手。
8. 关机前，请拿好机器以免掉落。
9. 请勿用本品清洁无框窗户或玻璃。
10. 请确保清洁布正确的贴在机器底部，以防机器吸附时漏气。
11. 不要向机身或者机器底部喷水，喷水只能喷在清洁布上面。
12. 切勿让儿童使用本机。
13. 使用前，拿掉玻璃表面所有其它物品。切勿使用本机清洁破裂的玻璃。有些磨砂玻璃有可能会在清洁中被刮伤表面。请谨慎使用。
14. 请在使用中让头发、松散的服装、手指和身体其它部位与机器的运动部件保持一定的距离。
15. 请勿在有易燃、易爆固体和气体区域使用。

### 扫码下载APP：

※ 苹果系统：

IOS7及IPHONE 4S以上版本，适用于IPHONE, IPAD, IPOD

※ 安卓系统：

安卓4.3以上版本，蓝牙4.0以上版本

注意：

连接前确保机器处于开机状态；手机蓝牙打开；

若连接不成功，退出APP，稍候再试。



Google Play



安卓（大陆地区）

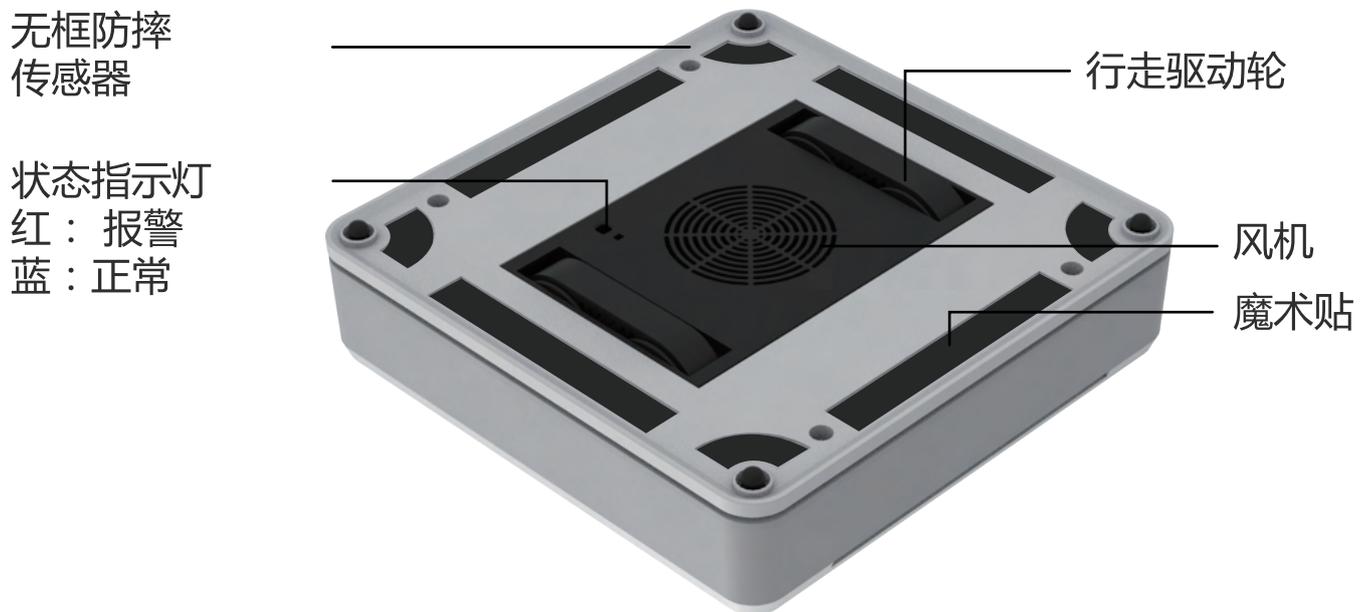
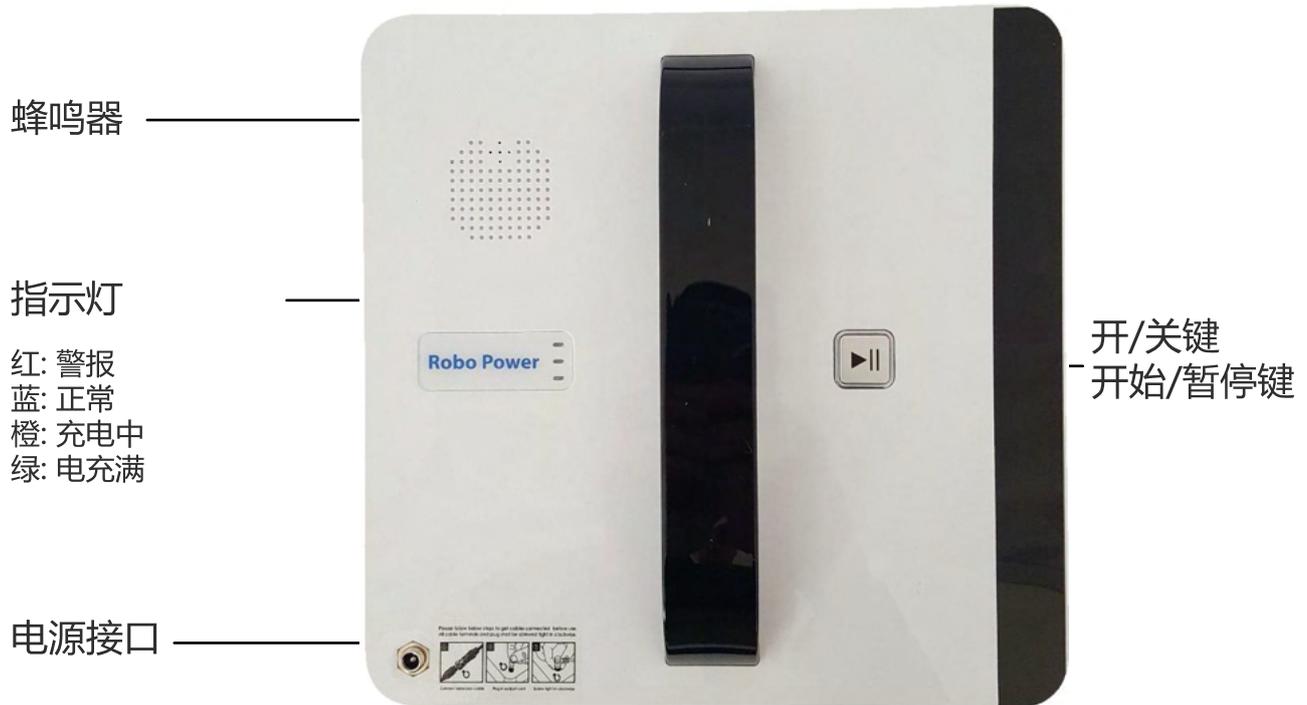


苹果系统

用户只需用智能手机搜索到擦窗机器人的蓝牙信号并连接，就可以与其建立实时的联系进而进行遥控操作。

## 2. 产品简介&规格

### 2.1 产品图示



## 2. 产品简介&规格

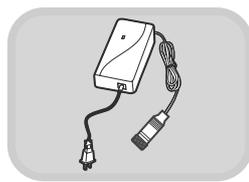
### 2.2 产品规格

关于本机			
型号：	WIN660	额定电压	DC 24V
额定功率	75W	噪音	About 65dB
电池容量	650mAH	充电时间	About 1h
外形尺寸	25*25*8cm	净重	1.35Kgs
清洁速度	约2.5min/sqm		
适配器			
输入	AC 100-240V 50/60Hz 2.0A	输出	24V/3.75A

### 2.3 包装清单



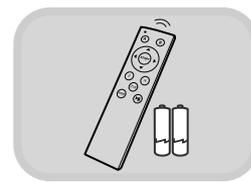
主机



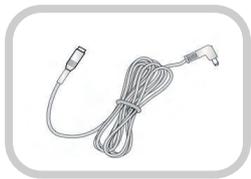
适配器



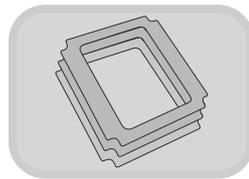
说明书



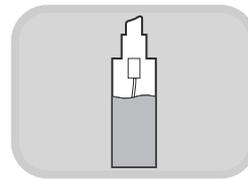
摇控器



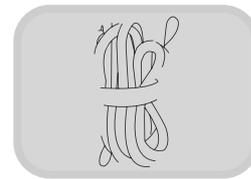
延长线



清洁布



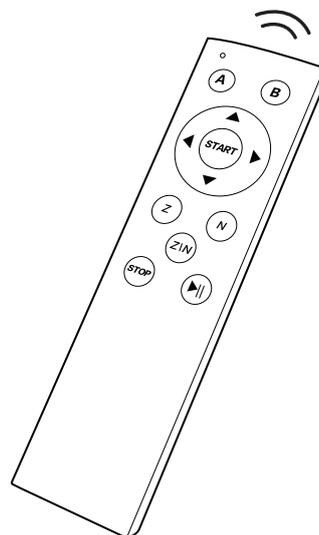
清洁液 (选装)



安全绳

### 2.4 摇控器

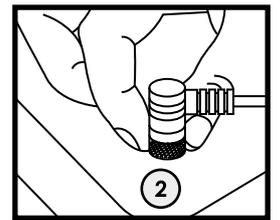
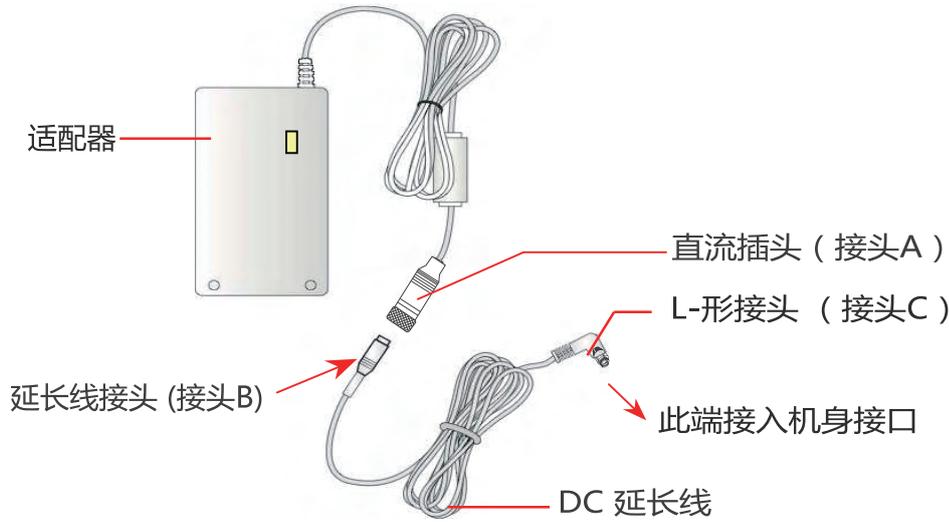
Z	Z型路径自动 清洁玻璃		手动向上移动
N	N型路径自动 清洁玻璃		手动向下移动
Z N	先Z再N路径自动 清洁玻璃		手动向右移动
A	尚未使用		手动向左移动
B	尚未使用		一键启动 (默认N路径)
STOP	停止清洁		停止清洁



※ 摇控器采用  
2.4G无线技术  
,可360度全范  
围&15米远距  
离无阻挡操控.

## 3. 安装

### 3.1 安装适配器



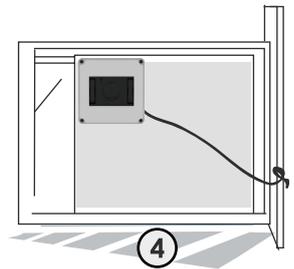
A. 将直流插头 (接头A)与延长线接头 (接头B)连上并且要拧紧,如上图。①

B. 将L形接头(接头C)深入插进机器电源接口处,并拧紧螺丝,如上图。②

### 3.2 连接安全绳 (务必安装、以防掉落)

A. 将安全绳穿过机器把手,并打好结固定住。③

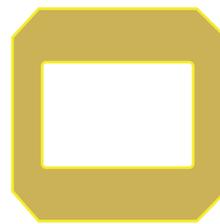
B. 将安全绳另一端固定在室内其它物体上,确保紧固不会被掉脱或者掉落。④



### 3.3 安装擦布

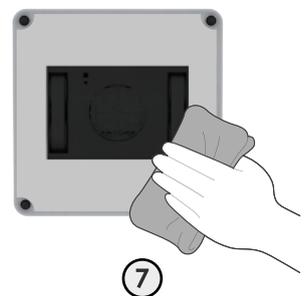
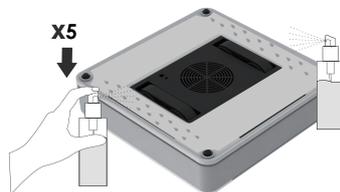
A. 将擦布正确的贴到 WIN660 机身底部,确保不要挡住驱动轮和防摔传感器。⑤

B. 将随机附赠的清洁液对准 WIN660 擦布喷五-八次,⑥  
喷完后将水渍擦干。⑦



黄色清洁布

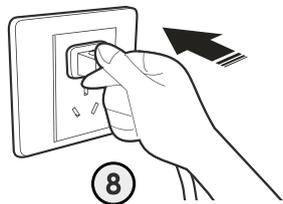
注: 安装擦布时,务必不可将擦布覆盖置于机器 四角的防摔传感器。覆盖后可能会导致机器掉落。



## 3. 安装

### 3.4 连接电源

插入插头，连上 WIN660。⑧



电源延长线(4米)



a、将延长线一端插入  
机器电源口



b、用力按入并右旋拧紧



c、将延长线一端与电源适  
配器接口对接



d、将对接头拧紧

#### 重要提示:

在使用 WIN660 过程中请确保机器一直由交流电源持续供电。备用电池是为确保机器不会在使用中因突然断电而掉落所配置。只供使用最长20分钟。若备用电池电量不足，请不要使用本机，待备用电池充满电再使用。

## 4. 使用 WIN660

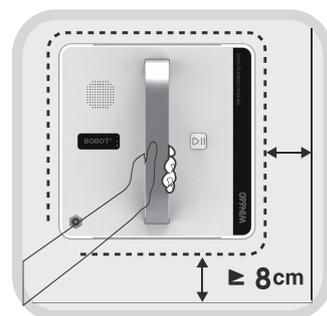
### 4.1 开关键

- A. 电源开关 - 长按机身按键2秒可开关 WIN660 的电源。
- B. 把机器置于玻璃表面，按一次 On/OFF 键可启动或者暂时清洁程序。



### 4.2 启动您的 WIN660

- A. 长按 WIN660 上面的 On/Off 按键2秒开机。
- B. 将机器放置在要清洁的玻璃表面，再次按下 On/Off 按键就启动了。
- C. 您同样可以按摇控上的“START” 按键启动机器。



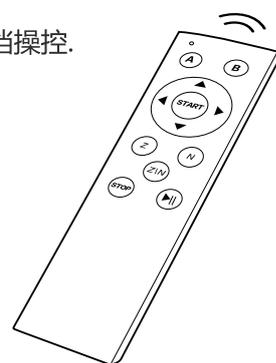
警示: 启动前，请确保 WIN660 的四边与玻璃框的边框或者窗户四角保持至少8cm的距离。

### 4.3 停止/暂停

- A. 当 WIN660 在清洁过程中，按一下 On/Off 按键或者摇控上的 STOP 按键可停止清洁。
- B. 当 WIN660 在清洁过程中，按下 Pause 键可暂停/重新清洁。
- C. 同样可以在摇控上按 START 键再次启动。APP 界面操作和摇控上的功能操作一致。

### 4.4 摇控器使用 ※ 摇控器采用2.4G无线技术，可360度全范围&15米远距离无阻挡操控。

Z型路径自动 清洁玻璃	尚未使用	手动向上移动	手动向左移动
N型路径自动 清洁玻璃	尚未使用	手动向下移动	一键启动 (默认N路径)
先Z再N路径自动 清洁玻璃	停止清洁	手动向右移动	停止清洁



## 4. 使用 WIN660

### 4.5 用完取下

WIN660 在完成一次清洁循环后会自动回到开启的位置。清洁完成后蜂鸣器会长响报警。

- A. 使用摇控器将您的机器摇控至方便取下的位置;
- B. 抓牢把手，长按开关键2秒关掉电源；
- C. 将机器其从窗户上取下；
- D. 解开安全绳。将机器与其相关配件置于干燥通风环境以备下次使用。

### 4.6 APP操作

- A. 请查看本中文说明第二页，扫描下载并安装APP至您手机。
- B. 打开手机蓝牙，开启APP界面。
- C. 在APP界面上点击搜索设置并进行设备配对。找到设备，连接成功，您就可以开始用手机操控了。

## 5. 产品维护

### 5.1 清洗擦布

请将您的 WIN660 机身翻面平放并取下擦布，放入冷水中，加入少量洗涤剂清洗，用清水清洗后晾干。

注意: 请不要使用完全湿透的擦布清洁窗户，这有可能让您的机器因为过湿吸附在玻璃表面卡住而无法移动。

### 5.2. 风机维护

请将您的 WIN660 机身翻转平放后，用干净的干燥抹布擦除机身底部的灰尘和其它污物。

### 5.3 擦边传感器维护

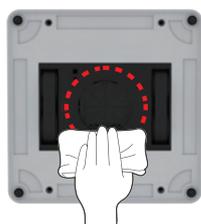
请将您的 WIN660 机身翻转平放，用干净的干燥抹布擦除传感器表面的灰尘和其它污物。

### 5.4 行走驱动轮维护

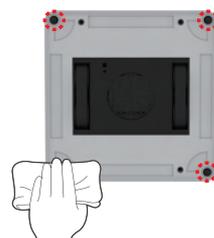
请将您的 WIN660 机身翻转平放，用干净的干燥抹布擦除驱动皮带表面的灰尘和其它污物。



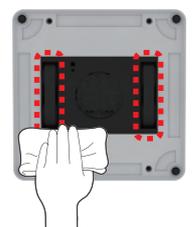
清洗擦布



清洁风机



清理防摔传感器



清理驱动轮

## 6. 故障排除

故障状态	可能原因	处理办法
机器打滑	擦布太湿或履带沾水	A、更换机器配备的海绵吸水擦布 B、将沾于履带上的水用干布抹干
机器行走不顺	玻璃过于潮湿或玻璃表面带黏性	先用遥控器手动(上/下/左/右)各方向将玻璃擦拭一遍，再做进一步操作
机器运行过程中，顶在玻璃边框不再继续动作	机器撞边电流误测	A、用遥控器手动遥控(先按STOP按键)到方便操作的位置，再做进一步操作 B、若遥控器仍无法遥控动作，人工将机器移到方便操作的位置
蓝灯及红灯常亮，蜂鸣器不响	机器未贴附于玻璃	将机器吸附于玻璃表面
机器运行过程中蜂鸣器连续响2下	机器探边传感器感应到移出玻璃边框外信号	无需理会
机器运行过程中，机器与玻璃间产生吱吱异响	玻璃表面过干或者防摔传感器沾灰过多	A、喷水给玻璃表面或擦布 B、清理掉附着于防摔传感器上的灰尘
机器完成擦窗动作，未停在机器起始放置位置	被擦玻璃表面各区域摩擦力不同	将机器用遥控器手动遥控到方便操作的位置
机器在运行过程中在某位置停止，红灯快闪	真空不足	A、检查擦布是否安装正确 B、检查玻璃是否有缝隙 C、检查玻璃窗框是否存在不平整橡胶
机器无法启动或机器运行过程中未按预设路径规则动作	防摔传感器异常	A、检查擦布是否安装正确 B、打开手机APP，连接机器，检查APP界面四角边缘有无对应的红色提示 (APP界面四角红色提示分别对应机器四角的防摔传感器异常) C、防摔传感器损坏
红灯闪烁，蓝灯不亮，蜂鸣器1秒响1声	电源掉电	检查电源是否断电或机器电源输入接口/延长线连接处接触不良 (紧固螺母未拧紧)
蓝灯及红灯快闪蜂鸣器连续间隔1秒响3声	行走电机异常	联系我公司售后人员

※ 如若按照说明书步骤机器仍无法正常工作，请联系我公司的售后服务部门以获取帮助。