

Window Cleaning Robot



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User Manual

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.

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.
- ▶ 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 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).

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.
- ▶ Drooping or bare cables, curtains, tablecloths or cords in the working area of the robot are to be secured in order to avoid damage to it or cause an electrical shock.

Warning



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 (green 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 appliance can stick and stand on glass surface while put onto glass.
8. Before turn power off, please hold device.
9. Do not use it on frameless glass.
10. Make sure put cleaning ring onto cleaning wheel correctly for no leakage.
11. Do not spray or pour water onto the appliance.
12. Prohibit children from using this device.
13. Remove anything 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.

About Window Cleaning Robot

GlassBot is a cleaning robot that works on multiple surfaces of glasses, tiles, smooth walls and tables. It works with a built-in vacuum motor that helps it suck air and stand on the glass surface. An embedded UPS (Un-interrupted Power System) prevents the robot falling from the window even when no electrical power.

With two wheels that freely traverse on the window surface or on wall surface, GlassBot cleans glass surface efficiently by the intelligent AI-technology path calculation. As well, it can be manually operated to clean under different modes from the remote control.

Features

- ▶ APP Control through IOS/Android system
- ▶ For glasses thicker than 6mm
- ▶ AI Technology
- ▶ Cleaning speed: 4minutes/meter².
- ▶ 4 kinds of automatic operation modes for cleaning entire window
- ▶ Auto-finish.
- ▶ Embedded UPS (Un-interrupted Power System)
- ▶ Anti-dropping control algorithm
- ▶ Auto detect edges of window
- ▶ Micro-fiber cloth
- ▶ High strength safety rope (150Kgf)
- ▶ Remote control
- ▶ Table cleaning mode

Specifications

Input Voltage: AC110-240V
Dimension: 29*14*11.5cm
Net Weight: 0.95KG
Input Voltage:
AC100~240V, 50/60Hz Adaptor;
24V, 80W, 5.5m Cable
Safe Standby Power:
Built-in Li-ion battery, 600mAh 14.8V
Charging Time: 1hour

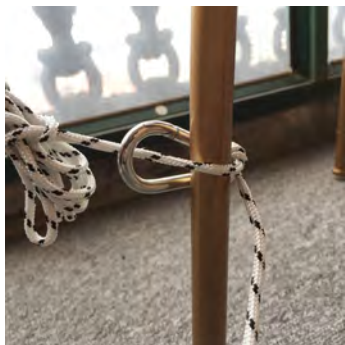
What's in the package?

- ☒ Cleaner x 1 pcs
- ☒ Cleaning cloth x 12 pcs
- ☒ Remote controller x 1 pcs
- ☒ Adapter (100~240VAC, 50~60Hz) x 1
- ☒ AC power cord x 1 pcs
- ☒ DC power extension cable (4 meter) x 1
- ☒ User Manual x 1
- ☒ Cleaning ring x 4
- ☒ Safety rope x 1

Know Your GlassBot

Top View

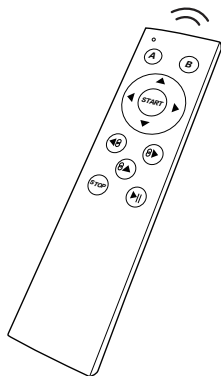
- | | | |
|------------------------------------|----------------|------------------------------------|
| ① Red Flashing: Abnormal | ② Buzzer | ⑥ Power Switch |
| Blue On: Normal | ③ Hooking Hole | ⑦ Hooking Hole |
| Green On: Full-charged | ④ Air Vent | ⑧ Bottom Red Light Flash: Abnormal |
| Rose Red on: Charging | ⑤ Power Jack | Bottom Blue Light on: Normal |
| White on: Electriferous Indication | | |



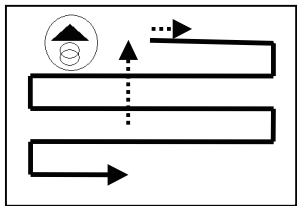
Know Your GlassBot

Remote Control

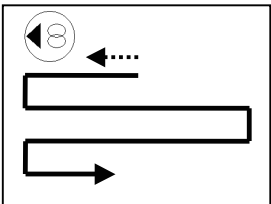
The device can be remote controlled from the front and backside.



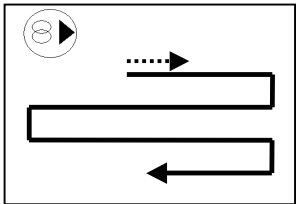
	Automatically move up then down		Manually move up
	Automatically move left then down		Manually move down
	Automatically move right then down		Manually move right
	Stop Cleaning		Manually move left
	Stop Cleaning		Start Cleaning



Auto Up then Down



Auto Left then Down

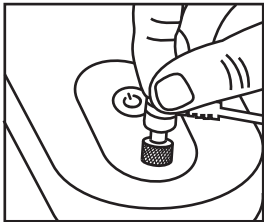


Auto Right then Down

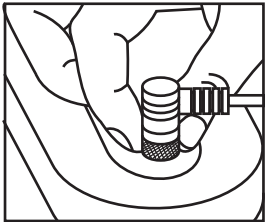
※ Please remove the insulation spacer in the bottom of back of remote controller before using. If you have to replace the battery, just pull down the battery cover.

Power connection

① Plug in



② Tighten the screw



Switch On/Off Button



- ① Long press 2s to turn on/off
- ② When it's on, press to start/pause

Before Using

► The robot shall always connect power cable for normal using.

► How to put the robot onto glass to start using?

(1) Turn on power-switch, and then make sure the fan is running.

(2) Put device onto glass and keep 10cm away from the window frame.

(3) Check if device can stick to the glass before releasing it.

► How to take device down from glass?

(1) While device is running, please hold safety rope with one hand and take device down from glass with the other hand.

(2) Turn off power-switch in safe area.

► Safety rope and buckle

(1) Before using, check if the safety rope is broken or the knot is loose.

(2) Fasten the safety rope and tie to indoor fixture before operating.

► UPS (Un-interrupted Power System) function

(1) The UPS function will be enabled automatically when no electric power supplied. The backup time of this UPS is 30 minutes.

(2) If no electric power is supplied, the device will stop automatically, alert and flash red lamp. User shall take device down from the glass as soon as possible.

(3) User can pull device back by pulling safety rope. Slightly pull the safety rope at an angle close to the glass to prevent dropping.

► Please make sure the battery was full-charged (green lamp ON) before using

(1) First, turn off the power-switch on the device. Plug in the power. Orange lamp ON means charging.

(2) Green lamp ON means the battery was full-charged.

► Table cleaning mode

Put device on the table and select auto-cleaning mode, the device will run in table-cleaning mode.

► Notice

(1) Do not use it on frameless glass.

(2) Make sure put cleaning ring onto cleaning wheel correctly for no leakage.

(3) Do not use it in rainy or moist day.

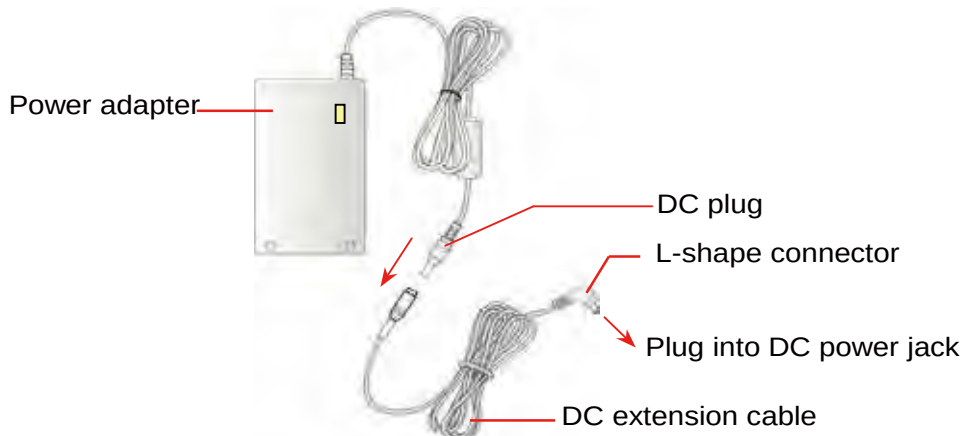
(4) Set danger-warning area downstairs for no-balcony window and door.

How to Clean the Glass

Step I: Use **ONLY** clean-and-dry cleaning cloth to clean dust and sand on the glass.

Step II: Change again the cleaning cloth. Keep upper wheel's cleaning cloth as clean-and-dry. Spray a little detergent (1~2 spray) on lower wheel's cleaning cloth, but not make cloth wet (if too wet, the machine can't move well). Then clean the glass again.

Power Adapter/DC Extension Cable



Using/Changing the Cleaning Cloth

1. Put clean-and-dry cleaning cloth onto cleaning ring.
2. Put the cleaning ring onto clean wheel and ensure the 6 slots on the ring are well fixed with the cleaner wheel to avoid air leakage.



Frequently Asked Questions (FAQ)

Q1: If Robot can't startup and alert at the beginning of self-test.

Ans: It means that the friction factor is not properly used. Please check:

- (1) Whether the cleaning cloth is too dirty.
- (2) Glass stickers, window film on the glass will also affect the friction factor.
- (3) If clean window many times, the glass surface will become very slippery.
- (4) The glass surface will become slippery if clean several times in low humidity environment such as in air-conditioned rooms.

Q2: Robot slips and cannot detect the upper frame of window in “Auto Up then Down”

mode 

Ans: Press  key and switch to  or  mode to continue cleaning.

Q3: Robot cannot finish whole window and stop at middle area.

Ans: Press  or  mode to continue cleaning.

Q4: Robot slips and cannot get higher to the window frame.

Ans:

(1) Friction factor is too low that might be caused by glass stickers, window film on the glass.

(2) Cleaning cloth might be too wet.

(3) If clean window many times, the glass surface will become very slippery.

(4) The glass surface will become slippery if clean several times in low humidity environment such as in air-conditioned room.

(5) When startup (press , or  or ), keep 10cm away from the window frame.

Q5: Robot does not move smoothly or moves irregularly.

Ans:

(1) Cleaning cloth is too dirty. Please change the cleaning cloth.

(2) Glass surface has different friction factor areas due to stickers, window film, and son on. Please use it in single area.

(3) The screw of cleaning wheel might be loose, please tighten it.

Q6: After cleaning, remained circle mark on the glass surface.

Ans: Cleaning cloth is too dirty. Please change the cleaning cloth and clean for the second time.

Q7: What to do if robot stopped at higher area while no electric power supplied, it alarms and red lamp flashes?

Ans:

(1) User can pull robot back with safety rope. Slightly pull the safety rope at an angle close to the glass to prevent dropping.

(2) Switch the power-switch to “off” status.

(3) Check whether electric poor-contact, or cable broken.

Q8: What to do if robot abnormally stopped and red lamp keeps flashing, without alarm?

Ans:

- Slightly pull the safety rope at an angle close to the glass to prevent dropping.
- (2) Check if any obstacle on the Glass and move the obstacle.
 - (3) Check whether there is air-leakage caused by gap, uneven window frames.

Q9: When turn on the power switch, the Fan doesn't rotate, and without alarm.

Situation	LED Signal	Explanation
	Blue: Flash Red: On No alarm	It means battery voltage too low, wait till battery full-charged. If machine still can't be used after four hours charge, the battery shall be changed.
	Blue: Flash Red: Flash No alarm	Machine hardware failure. Please contact the local retailer or local authorized dealer for repair.

Q10: The robot doesn't stop automatically after glass is fully cleaned.

Ans: Press Stop key to stop it, and take it off carefully from the glass.

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.

Product Warranty

If there are defects in your 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.

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.

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.



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

Subject to change without notice.

Control it with your smart phone

Users can control the cleaner through bluetooth matching to your smart phone, which is simple and convenient.

※ 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.

How to control it through APP ?

1. Connect the robot to power supply and press “Start” to turn it on
The robot has to be turned on so the program can be found and matched to your smartphone.
2. Turn on your phone’s “bluetooth” (Fig 1)
3. Find Glassbot App and open it on your phone (Fig 2)
4. App is available (Fig 3)
5. Click “Bluetooth search” on your phone, and match it to your phone (Fig 4)
6. Connection successful, you can control it through your phone now (Fig 5)

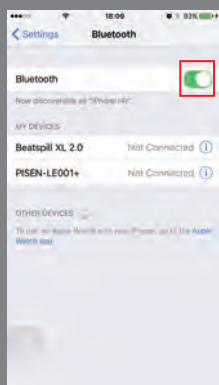


Fig 1



Fig 2



Fig 3



Fig 4



Fig 5

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

FCC Statement:

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.