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Technical support

If any problems occur and this manual cannot provide the solution you need, please contact a local retailer or local authorized dealer.

Disclaimer

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Important Safety Precautions

Read all instructions before operating this device.

WARNING

1. Fasten the safety rope and tie to an indoor fixture before operating the device.
2. Check if the safety rope is broken or the knot is loose before operating the device.
3. A power cord must be used for the HOBOT-188 to function properly.
4. For windows with no balcony, a warning area must be established on the ground below to prevent people from coming near it.
5. The battery must be fully charged (green light ON) before using.
6. Do NOT use on rainy or humid days.
7. Turn power on before putting device onto glass.
8. When placing the appliance onto glass, make sure it sticks to the surface before removing the supporting hand.
9. Remove the device before turning the power off.
10. Do NOT use on frameless glass.
11. Do NOT use on frames with non-rectangular (rounded) edges.
12. Make sure to put the cleaning ring onto the cleaning wheel correctly to avoid leakage.
13. Do not spray or pour water onto the appliance.
14. Prohibit children from using this device.
15. Remove any obstructions on the glass. Do not use on cracked glass. Reflective or coated glass may be scratched during operation by dirt on the glass.
16. Keep hair, loose clothing, fingers, and all body parts away from the openings and moving parts.
17. Do not use in areas containing flammable or combustible liquids or gases.
Product Description

HOBOT-188 is a glass-cleaning robot with a vacuum motor inside that uses suction to stick to glass surfaces. An embedded UPS (Uninterrupted Power System) can prevent the robot from falling off the window even when the power is off.

HOBOT has two specially-design cleaning wheels that can freely traverse window surfaces, and even walls. The easily-replaceable lint-free cloth is used on both cleaning wheels. Micro-fiber cloth is used to attain superior glass cleaning.

HOBOT has AI Technology that can calculate paths, auto-detect window edges, and auto-clean entire windows. It also features a mode for manual operation.

Specifications

| Product size       | 295mm x 148mm x 120mm (LWH)  
|                   | (11.6 in x 5.8 in x 4.7 in) |
| Product weight     | 0.94Kg (2.07 lbs)          |
| Gift box size      | 300mm x 234mm x 140mm (LWH)  
|                   | (11.8 in x 9.2 in x 5.5 in) |
| Gift box total weight | 2.15Kg (4.74 lbs)       |

| Input Voltage      | 100~240VAC, 50Hz~60Hz  |
| Adapter output     | 24V/3.75A             |
| Power consumption  | 80W                   |
| AC power cord length | 1.0m (3.3 feet)     |
| DC power cord length | 4.0m (13.1 feet)   |
| Safety rope length | 4.5m (14.8 feet)     |
| Battery            | Li-Po, 14.8V          |
| Battery working time | 20 minutes         |
| Battery life       | 2 years               |
| Cleaning speed     | 4 min/square meter    
|                    | (25 sec/square feet)  |
|                    | (Cleaning the entire area twice) |
| Maximum cleaning area | Height: 6 meters (19 feet) 
|                     | Width: 5 meters (16 feet) |
Product and accessories

- Device x 1
- Remote controller x 1
- Adapter (100~240VAC, 50~60Hz) x 1
- AC power cord x 1
- DC power extension cord (4 meters or 13 feet) x 1
- Cleaning cloths x 12
- Cleaning rings x 4
- User manual x 1

Product features

- Designed for any thickness glass
- AI Technology V2.0
- Cleaning speed: 4 min/m² (25 sec/feet²).
- 3 kinds of automatic operation modes for cleaning the entire window
- Stops automatically upon completion of cleaning.
- Embedded UPS (Uninterrupted Power System)
- Anti-falling control algorithm
- Auto-detects edges of window
- Microfiber cloth
- High-strength safety rope (tensile strength 150Kgf) and buckle
- Remote control
- Table cleaning mode
- Power consumption: 80W
- Input voltage: 100~240VAC, 50~60Hz
Getting to know the device

- A power cord must be used for the HOBOT-188 to function properly.

- How to put the device onto glass:
  1. Turn power switch on. Make sure fan is running.
  2. Put device onto glass and keep 10cm (4 in) away from the window frame.
  3. Check if device is sticking to the glass before releasing it.
How to remove the device from glass:
(1) While device is running, hold the safety rope with one hand and take device down from glass with the other hand.
(2) Remove the device to a safe area, then turn it off.

Safety rope and buckle:
(1) Before using, check to see if the safety rope is broken or if the knot is loose.
(2) Fasten the safety rope and tie to an indoor fixture before operating.

UPS (Uninterrupted Power System) function:
(1) The UPS function will be enabled automatically when no electric power is supplied. The backup time of this UPS is 20 minutes.
(2) If no electric power is supplied, the device will stop automatically, sound an alert, and flash a red light. The user should take the device down from the glass as soon as possible.
(3) The safety rope can be used to pull the device back. Gently pull the safety rope at an angle close to the glass to prevent it from falling off.

Make sure the battery is fully charged (green light ON) before use:
(1) First, turn off the power switch on the device. Plug it into a power source. Orange light ON means charging.
(2) Green light ON means the battery is fully charged.

Other things to pay attention to:
(1) Do not use on frameless glass.
(2) Make sure to put the cleaning ring onto the cleaning wheel correctly to avoid leakage.
(3) Do not use it on rainy or humid days.
(4) For windows with no balcony, a warning area must be established on the ground below to prevent people from coming near it.
### LED indication

<table>
<thead>
<tr>
<th>Situation</th>
<th>LED indication</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Battery charging</td>
<td>Orange LED is ON</td>
</tr>
<tr>
<td>2. Battery charged</td>
<td>Green LED is ON</td>
</tr>
<tr>
<td>3. No electrical power</td>
<td>Red LED flashing</td>
</tr>
<tr>
<td></td>
<td>Repeated beeping sound</td>
</tr>
<tr>
<td>4. Hardware error</td>
<td>Red-LED flashing</td>
</tr>
<tr>
<td></td>
<td>Blue-LED flashing with “error number”</td>
</tr>
<tr>
<td>5. Friction factor check error at start-up.</td>
<td>Red-LED flashes once</td>
</tr>
<tr>
<td></td>
<td>Beep</td>
</tr>
<tr>
<td>6. Vacuum pressure too low</td>
<td>Red-LED flashes once</td>
</tr>
<tr>
<td></td>
<td>Beep</td>
</tr>
<tr>
<td>7. Air leakage while operating</td>
<td>Red-LED flashes once</td>
</tr>
<tr>
<td></td>
<td>Beep</td>
</tr>
</tbody>
</table>

### How to clean the glass

#### Step I: “Dry Clean” first

- Use a clean and dry cleaning cloth to clean dust and dirt from the glass.
  - If there is water or detergent on the cloth or glass, the water or detergent will mix together with the dust or dirt to become mud, making cleaning results bad.

- **Using HOBOT on sunny days or days with low humidity for best results.**
- **Don't use HOBOT on rainy or high humidity days, otherwise it will produce white streaks.** The white streaks are water molecules. This is the same thing that can happen when manually cleaning with a cloth.

#### Step II: Use a clean and dry cleaning cloth. Keep the cleaning cloth on the upper wheel clean and dry. Spray a little detergent (1~2 sprays) on the lower wheel's cleaning cloth, but not too much (if too wet, the machine can’t move well), then clean the glass again.
Remote controller
The device can be remote controlled from the front and back sides.

<table>
<thead>
<tr>
<th></th>
<th>Automatically move up then down</th>
<th>Manually move up</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Automatically move left then down</td>
<td>Manually move down</td>
</tr>
<tr>
<td></td>
<td>Automatically move right then down</td>
<td>Manually move right</td>
</tr>
<tr>
<td>Stop</td>
<td>Stop</td>
<td>Manually move left</td>
</tr>
<tr>
<td>Start/Stop</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Auto up then down

Auto left then down

Auto right then down

※ If you have to replace the battery, just pull down the battery cover.
Using the cleaning ring and the cleaning cloth

1. Cover cleaning ring with cleaning cloth.

2. Put cleaning ring onto cleaning wheel correctly (snap the 6 latches) to avoid leakage.
Frequently asked questions (FAQ)

Q1: HOBOT can’t start up and it sounds an alert at the beginning of the self-test.
Ans: It means that there is too much or too little friction. Please check:
   1. Whether the cleaning cloth is too dirty.
   2. Glass stickers and window film have a friction factor that is too low.
   3. If the window is cleaned many times, the glass surface will become very slippery.
   4. The glass surface will become slippery if cleaned several times in a low humidity environment such as in air-conditioned room.
   5. When starting up the device (pressing 🖼️, or ⏳️ or ⏰️), keep it 10cm (4 in) or more away from the window frame to prevent the device from making an incorrect assessment.

Q2: The HOBOT slips and cannot detect the upper frame of window in “Auto Up then Down” (🔺) mode.
Ans: Press 🔴 key and switch to ⏳️ or ⏰️ auto mode.

Q3: HOBOT cannot finish cleaning the whole window and stops in the middle area.
Ans: Press ⏳️ or ⏰️ auto mode to continue cleaning.

Q4: HOBOT slips and can not climb up to the window frame.
Ans: (1) The friction factor is too low and may be caused by glass stickers or window film on the glass.
   (2) The cleaning cloth might be too wet.
   (3) If the window is cleaned many times, the glass surface will become very slippery.
   (4) The glass surface will become slippery if cleaned several times in a low humidity environment such as in air-conditioned room.
   (5) When starting up (press 🖼️, or ⏳️ or ⏰️), keep the device 10cm (4 in) or more away from the window frame to prevent it from making an incorrect assessment.

Q5: HOBOT does not move smoothly, or it moves irregularly.
Ans: (1) Cleaning cloth is too dirty. Please change out the cleaning cloth for a clean one.
   (2) Glass surface has different friction factor areas due to glass stickers, window
film, and so on. Please limit use the HOBOT to certain areas of the window.
(3) The screw of the cleaning wheel might have become loose. Just tighten it.

Q6: After cleaning, a circular mark is left on the glass.
Ans: Cleaning cloth is too dirty. Please change out the cleaning cloth out for a clean one and clean again.

Q7: What to do if HOBOT stops due to a power outage?
Ans: (1) User can pull HOBOT back with safety rope. Gently pull the safety rope at an angle close to the glass to prevent it from falling off the glass.
(2) Switch the power switch to “off”.
(3) Check whether there is a poor connection or broken cord.

Q8: What to do if HOBOT unexpectedly stops and the red light is flashing, with no alarm sounding?
Ans: (1) User can move HOBOT to safe area by remote control, or pull HOBOT back with safety rope. Gently pull the safety rope at an angle close to the glass to prevent it from falling off the glass.
(2) Switch the power switch to “off”.
(3) Check whether there is air leakage caused by a gap or uneven window frame.

Q9: When the power switch is turned on, the FAN does not rotate, and no alarm sounds.

<table>
<thead>
<tr>
<th>Case</th>
<th>LED signal</th>
<th>Situation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Blue: flash Orange: on Red: off No alarm</td>
<td>It means battery charge is too low. Wait for battery to fully charge (green light is lit). If machine still can’t be used after charging for 8 hours, the battery should be changed.</td>
</tr>
<tr>
<td>2</td>
<td>Blue: flash Red: flash No alarm</td>
<td>Machine hardware failure. Please contact a local retailer or local authorized dealer for repairs.</td>
</tr>
</tbody>
</table>

Q10: If HOBOT can’t auto-stop at bottom of window when it finishes cleaning.
Ans: Press \( ^\text{STOP} \) key to stop machine.
Safety information about power adapter/battery

- Use only the power adapter supplied with this device. Use of other types of power adapters will result in malfunction and/or danger.
- Please use a proper electrical outlet and make sure no heavy objects are placed on the power adapter or the 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 ventilation and cooling.
- Do not use the adapter in a humid environment. Never handle the adapter with wet hands.
- Connect the adapter to a proper power source. The voltage requirements are listed on the adapter.
- Do not use a broken adapter, power cord, or plug.
- Do not attempt to service the adapter. There are no service parts included. Replace the whole unit if it is damaged or exposed to high moisture. Consult your HOBOT 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 the contacts, heat above 60°C (140°F), or incinerate.
- If you have to dispose of old equipment, please take it to the local recycling center for recycling electrical and electronic parts.

General safety information

- 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 sources of intense light, and keep it away from sources of heat (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 temperatures: 0°C ~40°C (32°F~104°F).
- Product storage temperatures: -10°C ~50°C (14°F~122°F).
Cleaning cloth laundry instructions

- Washing under 40°C (104°F).
- Do not bleach.
- Do not tumble-dry.
- Do not iron.
- Do not dry clean.

Limited warranty

If there are defects in your HOBOT glass-cleaning robot due to faulty materials, poor workmanship, or malfunction within the warranty period from the date of purchase or delivery, please contact a local retailer or local authorized dealer for repairs or replacement.

Not covered by warranty

- 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 assembly or installation that is not in accordance with the instructions included with the HOBOT.
- Damage caused by using the HOBOT glass cleaning robot for anything other than normal domestic household purposes.
- Damage caused by using parts and accessories which are not specified by HOBOT.
- Damage caused by accidents, abuse, or misuse.
HOBOT Customer Service in the US

Home Robot LLC provides limited warranty, service, and repair of our products. We also supply accessories and parts for all HOBOT models.

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Fort Walton Beach, FL 32548
1.833.462.6887. Monday through Friday, 9am-5pm EST.
www.homerobotusa.com
service@homerobotusa.com

WARRANTY CARD

The warranty for HOBOT-188 is 12 months from the date of purchase.
The warranty for the battery is 6 months from the date of purchase.
The service life of HOBOT-188 is 5 (five) years from the date of purchase.

Robot’s serial number must be registered to receive limited warranty service.

You can register robot on official distributor’s web-site:
http://homerobotusa.com/hobot-register/

Or you can call us to register at 833.462.6887.
CE Declaration of Conformity


Product : Glass Cleaning Robot
Trade name : HOBOT
Model Number : HOBOT-188
 : EN 61000-3-3:2013
 : IEC 61000-4-2 Ed. 2.0: 2008
 : IEC 61000-4-3 Ed. 3.2: 2010
 : IEC 61000-4-4 Ed. 3.0: 2012
 : IEC 61000-4-5 Ed. 2.0: 2005
 : IEC 61000-4-6 Ed. 4.0: 2013
 : IEC 61000-4-11 Ed. 2.0: 2004
Low Voltage Directive : 2006/95/EC and 2014/35/EU
RoHS 2.0(2011)/EU

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Telephone : 886-3-6676699 Facsimile : 886-3-6673568

Person in responsible for marking this declaration:

George Chao
Name (Full Name)
2014.12.17
Date

Manager
Title/Department

Legal Signature