

HOBOT-SP10 *iScraper*

Window Cleaning Robot

Users Manual



◎ Important Safety Precautions

PLEASE READ ALL INSTRUCTIONS

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

- Read and follow the instructions and warnings when setting up, using, and maintaining HOBOT.
- Keep this manual in an easily accessible place for future reference.
- Keep HOBOT and its accessories out of reach of children.
- Keep HOBOT in cool, dry places away from direct sunlight, flames, heat, humidity, water and any other liquids.
- Do not store HOBOT near oil, combustible sprays or flammable materials.
- Do not leave HOBOT unattended while it is connected to the power source.
- Product operating temperatures: 0°C ~40°C (32°F ~104°F)
- Product storage temperatures: -10°C ~50°C (14°F ~122°F)

◎ Operation Cautions

Before operation- check the surroundings

- Do not operate HOBOT on rainy or humid days (humidity >85%.)
- Do not operate HOBOT on cracked window.
- Remove any obstacles on the window and clear away objects like electrical cords, curtains, and curtain cord. Keep hair and fingers away from the operating HOBOT.
- When cleaning windows on upper floors, a warning sign must be established on the ground to prevent people from approaching the area.
- In case there's air pollution, cooking vapors, or sea breeze causing oil films or salt deposits to form on glass surfaces, please wipe a small area clean to allow HOBOT to land on.

Before operation- check the device

- Check if the safety rope is broken or if the knot is loose.
- Fasten the safety rope, loop and hook the end of the rope to a fixed object.
- Ensure HOBOT is connected to an electrical outlet to operate.
- Ensure the UPS battery is fully charged. (Blue light ON)
- Attach the cleaning cloth firmly to HOBOT to avoid air leakage.
- Only fill the water tanks with water or with HOBOT window detergent.

Switching on and switching off

- Switch on the power before putting HOBOT onto the window.
- Make sure HOBOT is firmly attached to the window before letting go.
- Please hold HOBOT's handle tightly then turn off the power to remove it from the window.
- Always empty the water tank and dry the cleaning cloth before storing HOBOT away.

◎ **Battery & Power Adapter Safety Warnings**

- Only plug the power adapter into a power outlet that matches the specifications (100-240VAC).
- Do not attempt to repair the power adapter. Replace the entire unit if it is damaged or exposed to high moisture. Contact a local HOBOT dealer for help and maintenance.
- Ensure HOBOT and the power adapter are not trapped under heavy objects.
- Allow adequate ventilation around HOBOT and the power adapter. Do not cover them with objects.
- Do not use HOBOT and the power adapter in strong magnetic fields, humid, or high heat environments.
- HOBOT has a non-removable battery; contact an authorized service center for assistance.
- Use the original power supply cords that come with HOBOT. Do not use unauthorized chargers. Unauthorized chargers could cause damage, malfunction, and danger.
- Do not open, crush, cut, puncture, short-circuit, or incinerate the battery. Do not expose the battery to water, fire, or heat above 60°C (140°F).
- Store HOBOT in a dry and safe place if you won't be using it for an extended period. Charge the battery every 3 months to preserve battery life.
- Never operate HOBOT if the power supply cords are damaged. Ensure the power cord is not stretched or exposed to sharp objects or edges.
- Do not use HOBOT if any part or accessory is damaged or defective.
- Always switch off the power and disconnect HOBOT from the power source before cleaning or maintaining it.
- HOBOT is not waterproof. Damage may occur to the electronics if it is sprayed with water or submerged.
- Any procedure other than regular cleaning and care should only be performed by an authorized service representative.
- Contact your local waste management authority for recycling and disposal regulations of electronic appliances in your area. Do not dispose of HOBOT and the batteries as unsorted household waste.

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©Limited Warranty

If there are defects in your HOBOT due to faulty materials, poor workmanship, or malfunction within the warranty period from the date of purchase or delivery, please immediately contact a local retailer or local authorized dealer for repairs or replacement. This limited warranty does not cover:

- Normal wear and tear, including parts that might wear out over time (e.g. scraper, spraying nozzle, cleaning cloth, safety rope, water bottle and storage box, etc.)
- Reduction in battery runtime due to battery age or use, as the life of the battery (1 year) and number of times HOBOT is used.
- Transit, delivery or accidental damage or misuse and abuse that is not in accordance with the instructions.
- Faults or damage caused by:
 - Negligent use, misuse, abuse or careless operation of HOBOT.
 - Use of HOBOT which is not in accordance with this manual.
 - Use of anything other than normal domestic household purposes in the country in which it was purchased.
 - Use of parts not assembled or installed in accordance with this instruction.
 - Use of any unauthorized parts and accessories. Please contact a local retailer or local authorized dealer for spares and accessories.
 - Faulty assembly or installation.
 - Repairs or alterations carried out by parties other than HOBOT authorized dealer.

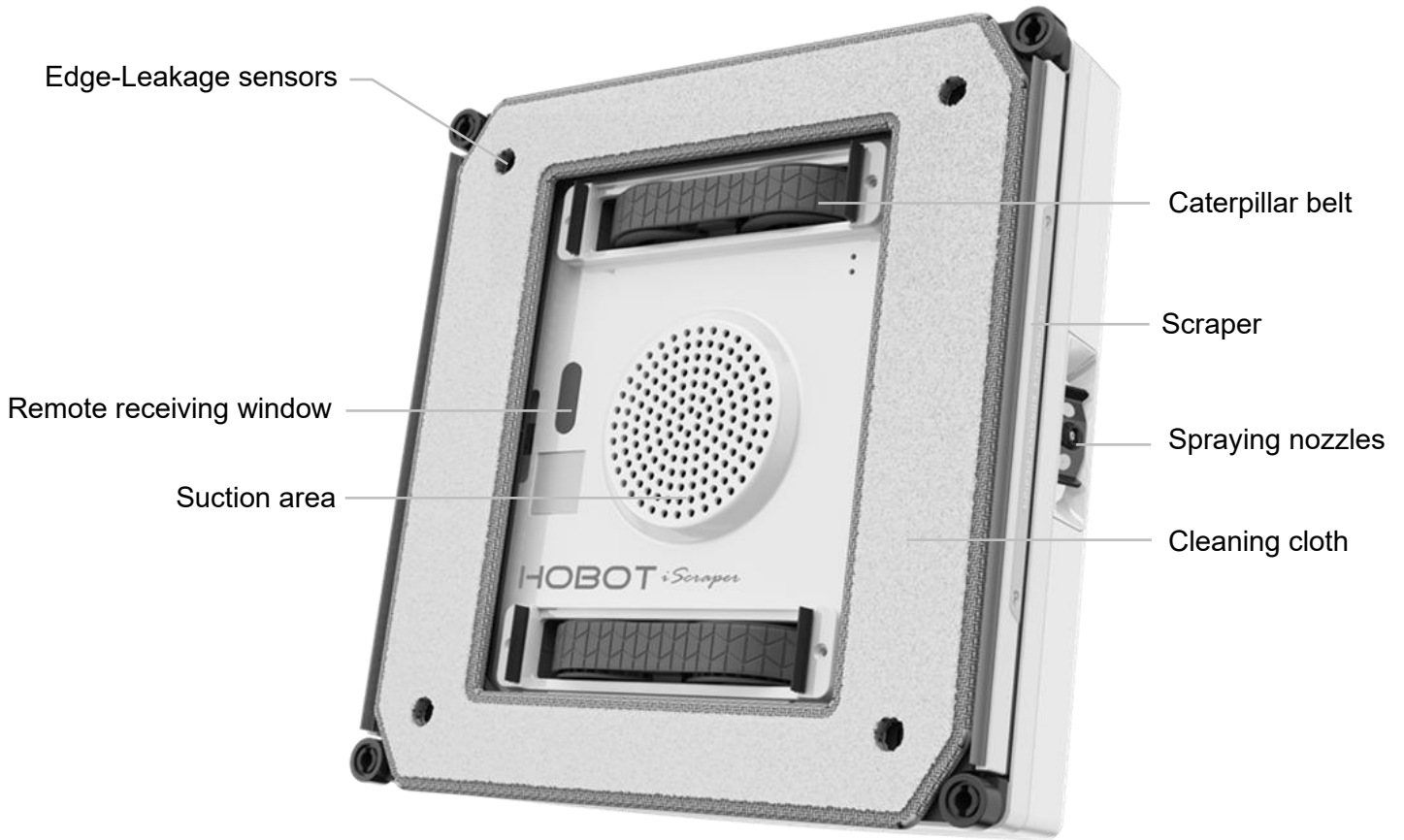
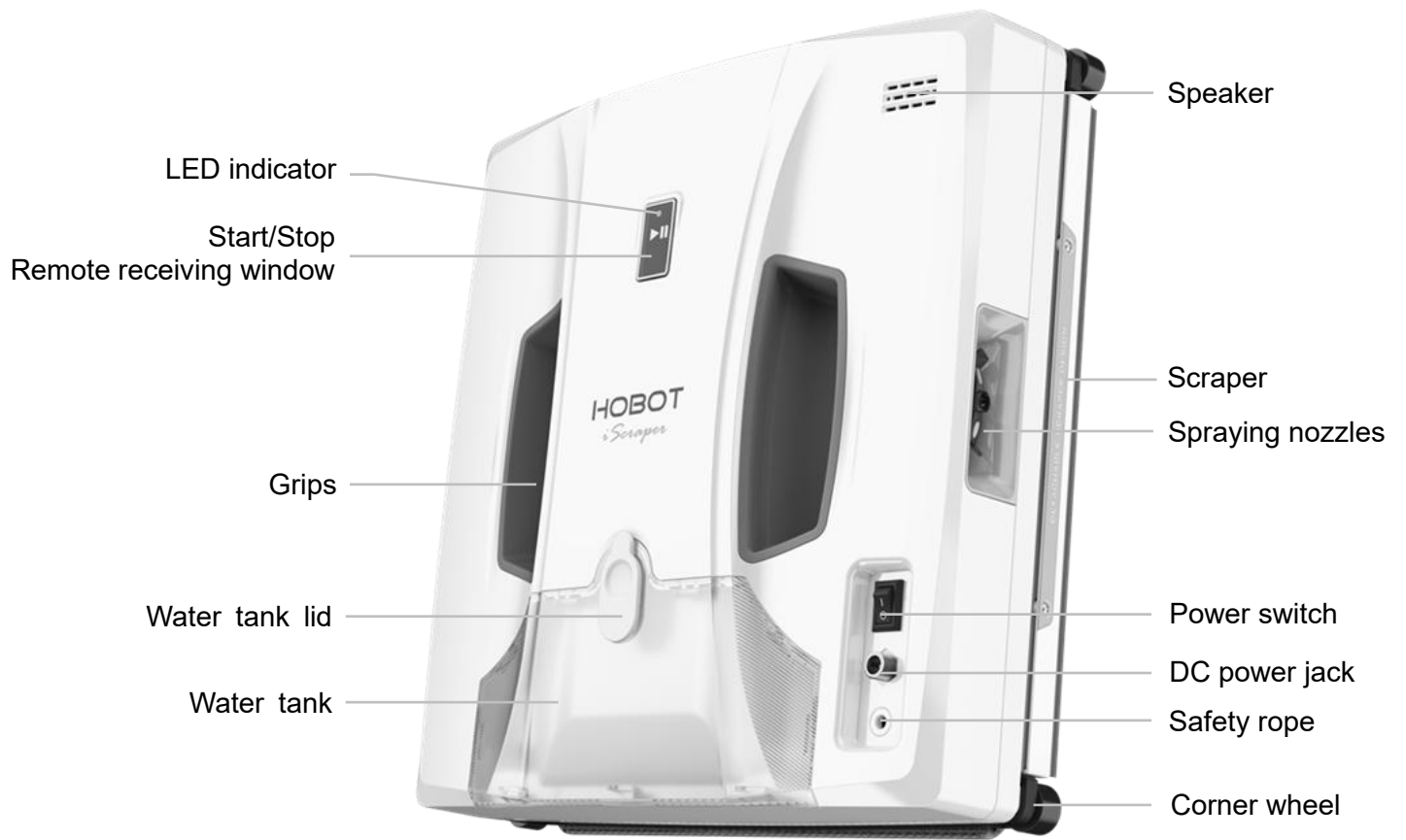
◎Product Description

HOBOT-SP10 iScraper Window Cleaning Robot is an automated window cleaning device designed for residential use. The SSS™ Glass-Cleaning Technology is a three-step cleaning process: spraying water through a nozzle, sweeping the surface with a cleaning cloth, and scraping residual water with dual scrapers. When moving horizontally, the robot automatically lifts the leading scraper and engages the trailing one to remove water without streaks. The device follows a programmed zigzag path to cover the entire window, then revisits both vertical edges for touch-up cleaning. It adheres to vertical surfaces with a dynamic suction mechanism powered by a brushless motor and moves using a caterpillar belt system. Safety features include real-time air-leak detection for working on frameless windows, an uninterruptible power supply (UPS) to maintain suction during power loss, and a safety rope as backup protection. HOBOT-SP10 supports app and remote control and receives OTA software updates.

◎Product Features

- SSS™ glass-cleaning technology
- Durable high surface tension material dual glide scrapers
- Pump pressurized dual water spray on both sides
- Edge-Leakage™ sensors for edge detection on framed or frameless windows
- Update firmware through Over-The-Air technology (OTA)
- Voice prompt & creative voice
- Intuitive directional control, auto-detect the orientation to follow the remote control direction
- Stops automatically upon completion of cleaning
- Designed for glass in any thickness
- 4 cleaning modes to clean the entire window
- Uninterruptible power system (UPS), backup for 20mins
- Anti-falling control algorithm
- Extra secure DC power jack
- Microfiber cleaning cloth
- Remote and smartphone controlled

©About HOBOT-SP10 iScraper



◎How Does iScraper Clean the Window?

SSS™: Spray – Sweep – Scrape Glass Cleaning Technology

HOBOT-SP10 iScraper Window Cleaning Robot restores crystal-clear views with the SSS™ triple-step cleaning process—Spray, Sweep, Scrape—delivers crystal-clear glass. Dual nozzles spray wind-resistant mist, microfiber cloth wipes away dirt, and silicone scrapers finish by removing water streaks.



Spray

Dual Nozzles
Ultra-wide Angle Spray
Wind-Resistant

Sweep

Thick Microfiber Cloth
Removes Dust and Dirt

Scrape

Dual Scraper Blade
Precise Finishing Stroke
Wipes Away Water Marks

◎Instructions for Using HOBOT App

Install HOBOT LEGEE App, Connect, and Start Cleaning

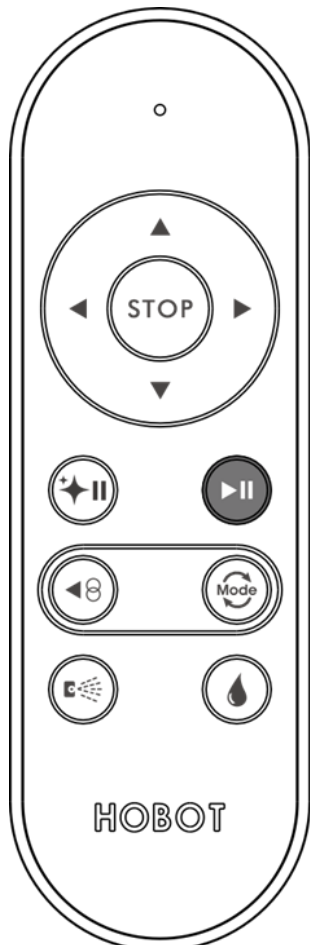




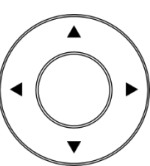



Scan the QR code on the right or search “HOBOT LEGEE” on the App Store/Google Play to download the App.







- (1) Turn on the Bluetooth on your phone and launch HOBOT LEGEE App.
- (2) To connect your HOBOT to the App, please follow the App's instructions.
- (3) Please put HOBOT on the table before updating the firmware or recording the Creative Voice.

◎ Remote Control and App Control

HOBOT can be controlled from the front and back sides with the remote control or with your smartphone via HOBOT LEGEE App.

		Mode switching between ZH / Z / ZN / ZHA	
		Start/Pause Cleaning Finishing Mode: Clear minor marks	To the TOP then auto-clean entire window
		Start/Pause Cleaning Washing Mode: Clean dirt	
		To the LEFT then auto-clean the rest of the window	
		Manual control	
		STOP	
		Water spray function on/off (when spray is off, the scraper is inactive)	
		Spray water once	

◎ 4 Talent Clean Modes



	ZH Standard Mode	Zigzag routes horizontally first then clean along the left and right side of the window.
	Z Fast Cleaning Mode	Only zigzag routes horizontally.
	ZN Fine Cleaning Mode	Zigzag routes horizontally first then vertically.
	ZHA Handle Avoidance Mode	ZH mode with left and right window handle dodging algorithm.
	Spot Cleaning (App only)	Extra scrub to remove stubborn stains.

◎ Recommended Cleaning Procedures

- For the best window cleaning results, use HOBOT on sunny days or days with low humidity.
- To avoid water stains on your window, do not use HOBOT on rainy days or days with high humidity.
- In case there's air pollution, cooking vapors, or sea breeze causing oil films or salt deposits to form on glass surfaces, please wipe a small area clean to allow HOBOT to land on the glass.



How to Clean the Window

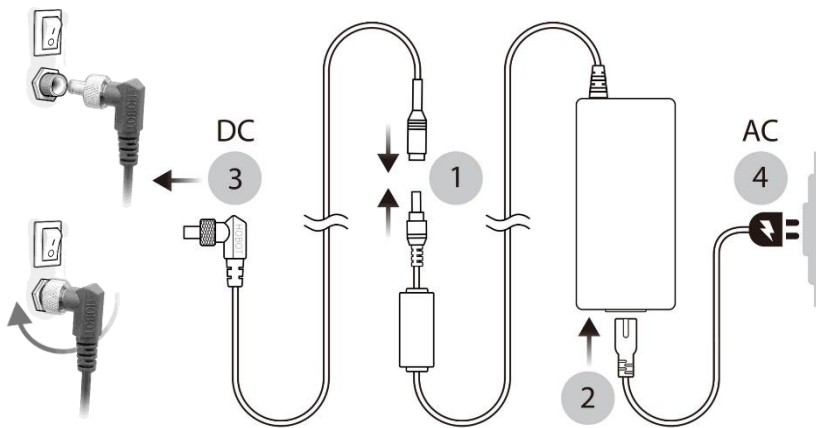
	Wash off the dirt	When skidding	Finish round: Clear minor marks
Preps	Wash and wring out the cleaning cloth	Clean the caterpillar belts and wring out the cleaning cloth	Clean the caterpillar belts and scraper, use a fresh and dry cleaning cloth
Remote Key	 Washing Mode: Spray less water first to avoid skidding and clean following selected Talent Clean routes.		 Finishing Mode: Spray less water all the way to avoid water mark and clean only in horizontally zigzag routes.

◎ Uninterruptible Power System (UPS)

- (1) The UPS provides emergency power supply when a power outage strikes. The backup time of the UPS is 20 minutes.
- (2) HOBOT will stop automatically, flash red and blue light, and play audio alert. Please remove HOBOT from the window as soon as possible. Please refer to FAQ Q2 for more information.

◎ Instructions for Using HOBOT

1. Set-up



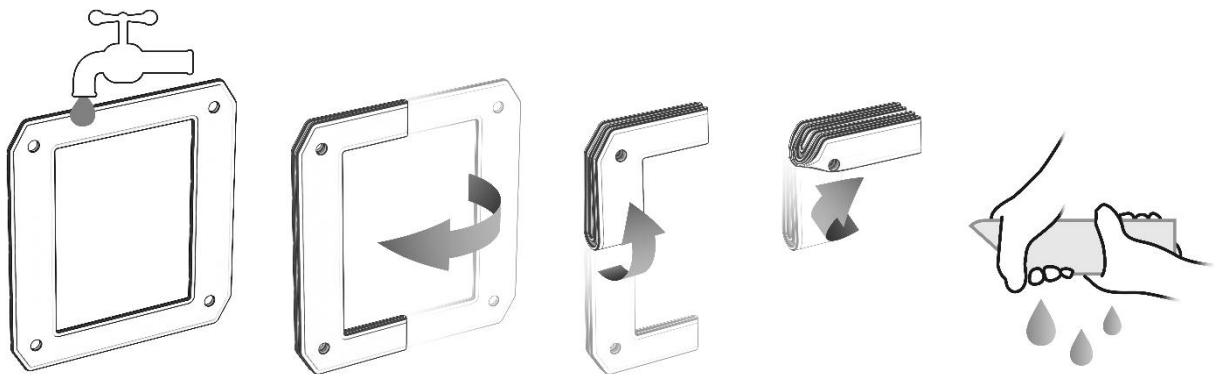
- (1) Connect the adapter to the DC extension cord.
- (2) Connect the adapter to the AC power cord.
- (3) Plug the L-shaped connector into DC power jack on HOBOT and screw it tight.
- (4) Plug the AC power cord into the socket.

2. Charge HOBOT's UPS Battery

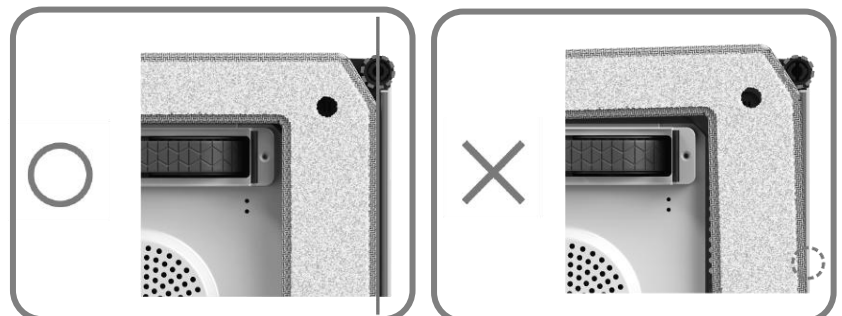
- (1) Connect HOBOT to a power source and do not turn on the power.
- (2) The LED indicator turns orange during charging and blue when charging is complete.
- (3) Make sure the battery is fully charged before use.

3. Attach the Cleaning Cloth

HOBOT can work with both dry or damp cleaning cloth. To wring out the cleaning cloth, please fold 3 times then squeeze dry.



Flatly attach the cleaning cloth and make sure it does not cover both scrapers and the corner wheels.



HOBOT

4. Fill the Water Tank

Only fill the water tanks with water or with HOBOT window detergent (sold separately.)

5. Apply Safety Measures







- (1) When cleaning the windows on upper floors, a warning sign must be established on the ground to prevent people from approaching the area.
- (2) Please check if the safety rope is broken or if the knot is loose.
- (3) Fasten the safety rope, loop and hook the end of the rope to a fixed object.



6. Place HOBOT onto the Window

- (1) Ensure HOBOT is connected to an electrical outlet to operate. Switch on the power and make sure the fan is running.
- (2) Put HOBOT onto window, at least 10cm away from the window edge.
- (3) Make sure HOBOT is firmly attached to the window before releasing it.


7. Clean with Different Modes

- (1) Press  to switch cleaning modes, please refer to  Cleaning Modes.
- (2) Press  or , HOBOT will automatically clean the window.
- (3) Press  to stop HOBOT.
- (4) Press  to control HOBOT's moving direction manually.

8. Take Down HOBOT from the Window

Hold HOBOT's handle tightly then turn off the power to take down.

9. Clean the Device and Cleaning Cloth for Best Result

For the best result, please use a fresh cleaning cloth, also clean scraper and caterpillar belts frequently. Please refer to  Cleaning & Maintenance.

10. Storage

Empty the water tank and dry the cleaning cloth before storing HOBOT away. Store HOBOT in a dry and safe place. If you won't be using it for an extended period. Charge the battery every 3 months to preserve battery life.

◎ Cleaning & Maintenance

Please contact a local retailer or a local authorized dealer for information regarding replacement parts.

Part	Care Frequency	When to Replace
Cleaning Cloth	After each use.	When it is too dirty or when it is worn out.
Caterpillar Belts	After each use. When HOBOT skids or leaves marks.	/
Scraper	After each use. When the scraper judders or leaves water residue on the window.	When it is worn out. When cleaning the scraper does not work.
Spraying Nozzle	When the spraying volume is decreased.	When it is clogged and cannot be cleaned with the pin.

1. Cleaning Cloth

- Wash under 40°C (104°F).
- Do not bleach.
- Do not use softener.
- Do not tumble-dry.
- Do not iron.
- Do not dry clean.
- To dry the cleaning cloth, please fold 3 times then squeeze dry.



2 . Caterpillar Belts

Please wipe the accumulated dust and grease off the caterpillar belts to avoid skidding.

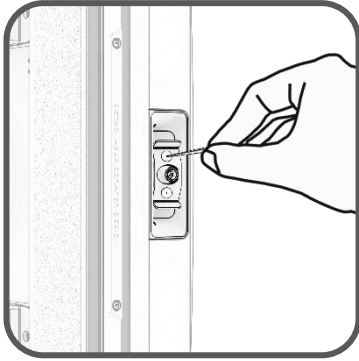
- (1) Wet a cloth with little dish soap water or prepare an alcohol wipe.
- (2) Flip HOBOT upside-down and switch the power on. The caterpillar belts will start running for 3 minutes.
- (3) While the belts are running, gently press the (1) cloth onto a belt to clean it. Keep the cloth in the middle of the belt to avoid it being tangled.



In case the cloth is tangled with the belt, switch off the power to pull the cloth out.

3. Spraying Nozzle

- (1) Clean the spray nozzle with a push pin.



- (2) Remove 1 screw with a Phillips screwdriver and tatch the side of nozzle module with a flat-head screwdrive, and pinch it to remove.



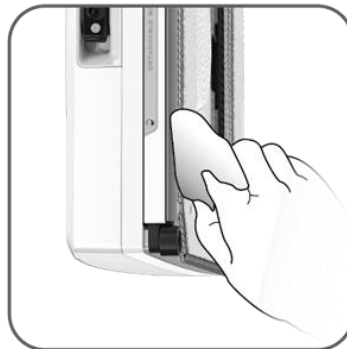
- (3) Install the new spraying nozzle module by pressing it and tighten the screw.



4. Scraper

Please clean the accumulated dust and grease off the scrapers for optimal cleaning result.

- (1) Use a piece of soft cloth to wipe the outter side of the scraper. Squeeze the cleaning cloth to unviel the inner side of the scraper and clean it.



- (2) Remove 2 screws with a Phillips screwdriver and slide down the old scraper.



- (3) Rinse the scraper gently. (if not replacing with a new one)
- (4) Install the scraper then fasten the screws.



◎LED Indication

Status	LED Indication	Audio Alert	Situation and Handling
Charging	Orange light on	×	UPS charging
	Blue light on	×	UPS fully charged
Power ON	Blue light flashing	Two beeps with voice prompt	Low UPS battery. Please refer to FAQ Q1 for resolution.
	Red and blue light flashing	Long sound alert with voice prompt	Power supply disrupted. Please reconnect HOBOT to a power source. Please refer to FAQ Q2 in case of power outage or inaccessibility of power source.
Operating	Blue light on	○	Spray function on
	Light is off	×	Spraying
	Blue light on	One long and two short beeps with voice prompt	Cleaning is completed
	Light is off	One beep	Air leakage. HOBOT will reverse.
	Blue light flashing		Please refer to FAQ Q3 for resolution.
	Red light flashing	Two beeps with voice prompt	Hardware failure. Please contact a local retailer or an authorized dealer for repairment.

☉Frequently Asked Questions (FAQ)

If you cannot resolve the problem with any of the workarounds in this manual, please contact a local retailer or local authorized dealer.

1. **Charging UPS battery.**

Store HOBOT in a dry and safe place if you won't be using it for an extended period. Charge the battery every 3 months to preserve battery life. If the battery cannot be fully charged (blue light on) after 3 to 4 hours, please contact a local retailer or an authorized dealer for battery replacement.

2. **HOBOT stops working due to power outage with red and blue lights flashing and audio alert on.**

If HOBOT is in an accessible area:

- (1) Hold HOBOT's handle tightly then turn off the power to take down.
- (2) Check if the power cord is damaged or broken.

If HOBOT is not in an accessible area:

The safety rope can be used to pull HOBOT back. Gently pull the safety rope while keeping the rope close to the window to avoid HOBOT from falling off. Repeat above steps until HOBOT is within reach.



3. **HOBOT stops with blue or red light flashing and playing audio alert.**

- (1) If HOBOT stops at the edge of the window, please refer to FAQ Q2 to take down HOBOT.
- (2) Please check and fix below conditions:
 - Please clean the caterpillar belt and the scraper.
 - Please use a fresh cleaning cloth and follow ☉Recommended Cleaning Procedures to clean the window.
 - The cleaning cloth is not flatly attached to the bottom side of HOBOT, it should avoid covering the scrapers and corner wheels.
- (3) HOBOT is unable to work on these surfaces due to insufficient friction:
 - Window stickers or window film.
 - Exposure to air pollution, cooking vapors, or sea breeze can cause oil films or salt deposits to form on glass surfaces.
- (4) To avoid false detection, please keep HOBOT at least 10 cm away from the window frame when placing it on the window.

If issue persist, please call service.

4. **HOBOT skids and is unable to detect the upper frame or move upwards.**

- (1) Please wring out the cleaning cloth, clean the caterpillar belt and the scraper.
- (2) Please use a fresh cleaning cloth and follow ☉Recommended Cleaning Procedures to clean the window.


(3) HOBOT will try reverse direction shortly, or you can press  and switch to  auto cleaning mode to continue cleaning.

(4) Could be insufficient friction on the surface. Please refer to FAQ Q3-3.

5. HOBOT does not finish cleaning the whole window and stops in the middle of the work frequently.


Press  to continue, if unable to complete 1m² area within 3 attempts:

(1) Please wring out the cleaning cloth, clean the caterpillar belt and the scraper.

(2) Please use a fresh cleaning cloth and follow  Recommended Cleaning Procedures to clean the window.

6. HOBOT does not move smoothly or moves irregularly.

(1) Please wring out the cleaning cloth, clean the caterpillar belt and the scraper.

(2) Please use a fresh cleaning cloth and follow  Recommended Cleaning Procedures to clean the window..

(3) Could be insufficient friction on the surface. Please refer to FAQ Q3-3.

(4) Please limit the use of HOBOT in certain areas of the window.

7. HOBOT does not stop cleaning after task is completed.

Please press  button to stop HOBOT.

8. Unable to connect HOBOT to “HOBOT LEGEE” App.

(1) Please restart both HOBOT and the App.

(2) Please turn on Bluetooth function and authorize “HOBOT LEGEE” to use the location service on your smartphone.

(3) Please check the Bluetooth device list on your smartphone and disconnect “HOBOT” to allow the App to connect to HOBOT.

9. HOBOT does not spray water.

(1) Check if you have turned on the spray function.

(2) The spraying nozzle is clogged. Please refer to Cleaning & Maintenance #3 for resolutions.


10. The Scraper is not working.

(1) Please check the scraper function is enabled in the App.

(2) When moving horizontally, the robot automatically lifts the leading scraper and engages the trailing one to remove water without streaks.

11. HOBOT is leaving dirty marks on the window.

(1) Please clean the caterpillar belt and the scraper.

(2) Please use a fresh cleaning cloth and follow  Recommended Cleaning Procedures to clean the window.

HOBOT

- (3) The cleaning cloth is not flatly attached to the bottom side of HOBOT, it should avoid covering the scrapers and corner wheels.
- (4) The scraper is worn out and need to be replaced.

12. HOBOT moves in opposite direction when the user is facing the cleaning cloth and using the physical remote control.

When HOBOT is between two reflective surfaces, the signal of the remote control might be interfered and cause false detection.

◎ Product and Accessories

- HOBOT-SP10 × 1
- Adapter × 1
- AC Power Cord × 1
- DC Extension Cord × 1
- Remote Control × 1
- Water Bottle × 1
- Microfiber Cleaning Cloth × 3
- Safety Rope × 1
- User Manual × 1

◎ Specifications

Model	HOBOT-SP10
Adhesive Type and Shape	Vacuum, Square
Device Weight	1450 g (3.19 lbs)
Device Size (L×W×H)	245×245×75 mm (9.64×9.64×2.95 in)
Cleaning Pattern	Linear clean, Zigzag
Water Spray	Dual on both sides, Replaceable
Suitable Glass Thickness	All Thickness
Workable Window Size	Width > 40 cm
Rated Input	DC 24V == 3A
Rated Power	72W
Battery	Li-ion, 14.8V
Uninterruptible Power System (UPS)	20mins
Certifications	CE, FCC, RoHS, RCM



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