Smart Glass Cleaning Robotic Window Cleaner

Window Cleaner Robot User Manual

Brand: Generic | Model: Smart Glass Cleaning Robotic Window Cleaner

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Smart Glass Cleaning Robotic Window Cleaner. Please read this manual thoroughly before using the device to ensure optimal performance and safety.

Image 1.1: The Smart Glass Cleaning Robotic Window Cleaner shown with its power cord, safety rope, and two cleaning pads.

The Window Cleaner Robot is designed to automate the cleaning of various glass surfaces, including windows, tiles, and glass doors. It features a microcomputer drive system for easy control, strong suction for secure attachment, and intelligent path planning for efficient cleaning.

Image 1.2: The robot cleaning a large window, demonstrating its ability to maintain a clean and tidy home environment.

2. SAFETY INFORMATION

Always adhere to the following safety guidelines to prevent injury or damage to the device:

- Ensure the safety rope is securely attached to a fixed anchor point before operation, especially when cleaning high windows. The safety rope has a tensile strength of 150Kgf.
- Always connect the power cord during operation. The built-in UPS battery is for power-off protection only (up to 25 minutes) and not for cordless operation.
- Do not use the robot on cracked or damaged glass surfaces.
- Keep hands and loose clothing away from moving parts during operation.
- Do not immerse the robot in water or any other liquid.
- Use only the provided accessories and cleaning cloths.
- Store the robot in a dry, cool place when not in use.

Image 2.1: Overview of the robot's core technologies, including Microcomputer control, Vacuum adsorption, Intelligent cleaning, Multi-manipulation system, MEMS detection, and Multiple security guarantees.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Window Cleaner Robot
- 1 x Transformer
- 1 x Power Cord
- 1 x Safety Rope
- 1 x Extension Cord (4m / 13.1ft)
- 4 x Cleaning Rings
- 12 x Cleaning Cloths
- 1 x Remote Control (AAA batteries not included)

- 1 x Cleaning Bottle
- 1 x User Manual (this document)

4. SETUP

4.1. Identifying Components

Product Introduction

Rope hole
Horn sound hole
Red light: showing abnormal condition
Blue lamp: show normal condition
Orange lamp: charging
Green Light: charging completion
Remote receiver window

Exhaust vent hole

Power switch
A healthy start
Power supply hole

Lower hanging hole

Cleaning cloth

Blue lights, red lights
Remote receiver window

Cleaning cloth

Image 4.1: Front and back view of the robot with key components labeled, including rope hole, horn sound hole, indicator lights (red, blue, orange, green), remote receiver window, exhaust vent hole, power switch, power supply hole, lower hanging hole, and cleaning cloths.
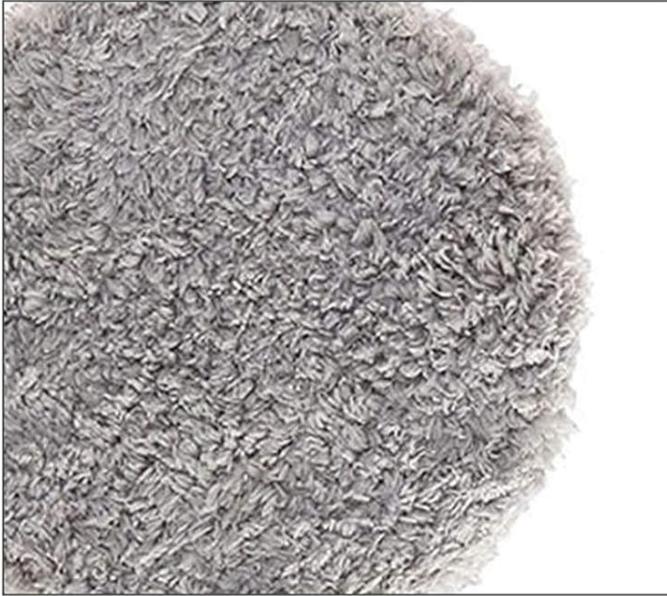
4.2. Attaching Cleaning Cloths

The robot uses superfine fiber cleaning cloths for effective cleaning. Ensure they are properly attached before use.

1. Place a cleaning ring onto each of the two circular cleaning pads on the underside of the robot.

2. Press a clean microfiber cloth firmly onto each cleaning ring, ensuring it covers the entire surface and is securely attached.

Image 4.2: Two circular superfine fiber cleaning cloths, ready for attachment to the robot.

Superfine fiber cleaning cloth

Removable cleaning ring

Power switch

Mechanical handle

Image 4.3: Detailed views of the superfine fiber cleaning cloth, the removable cleaning ring, the power switch, and the mechanical handle for easy handling.

4.3. Connecting Power and Safety Rope

1. Connect the power cord to the transformer, and then connect the transformer to the robot's power supply hole.
2. Plug the power cord into a standard electrical outlet (110-240V 50/60HZ).
3. Securely attach the safety rope to the designated rope hole on the robot.
4. Fasten the other end of the safety rope to a sturdy, immovable object indoors, such as a heavy piece of furniture or a window frame anchor.
5. Insert 2 AAA batteries into the remote control (batteries not included).

5. OPERATING INSTRUCTIONS

5.1. Powering On and Placement

1. Ensure the robot is connected to power and the safety rope is secured.

2. Turn on the robot using the power switch located on the device. The blue light will indicate a normal condition.

3. Place the robot onto the glass surface you wish to clean. The robot will automatically create suction and adhere to the surface.

5.2. Selecting Cleaning Mode and Starting

The robot offers three intelligent cleaning paths. Use the remote control to select your desired mode:

- **Automatic Mode:** The robot intelligently plans its route to cover the entire surface.
- **Z-shaped Mode:** For vertical surfaces, the robot moves in a Z-pattern.
- **N-shaped Mode:** For horizontal surfaces, the robot moves in an N-pattern.

Press the START button on the remote control to begin cleaning. The robot will automatically detect window frames and obstacles.

5.3. Stopping and Retrieving the Robot

1. To stop cleaning, press the STOP button on the remote control.

2. The robot will automatically return to its starting position after completing a cleaning cycle or when stopped.

3. Carefully remove the robot from the glass surface by holding the mechanical handle and releasing the suction.

4. Turn off the robot using the power switch and disconnect it from the power supply.

6. MAINTENANCE

6.1. Cleaning Cloths

- After each use, remove the cleaning cloths from the robot.
- The cloths can be hand-washed or machine-washed with mild detergent. Allow them to air dry completely before reattaching.
- Replace cloths when they show signs of wear or no longer clean effectively.

6.2. Robot Body

- Wipe the exterior of the robot with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure the suction area and sensors are free from dust and debris for optimal performance.

6.3. Battery Care

- The built-in battery (XPZ011, 14.8V, 750MAh) is primarily for power-off protection. Keep the robot connected to power during operation.
- If the robot is not used for an extended period, charge the battery fully before storage and recharge every 3 months to maintain battery health.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Robot does not power on.	Not connected to power; power switch off; no batteries in remote.	Ensure power cord is securely connected and plugged in. Turn on the power switch. Insert 2 AAA batteries into the remote control.

Problem	Possible Cause	Solution
Robot does not adhere to glass or falls off.	Insufficient suction; dirty cleaning cloths; uneven surface; power disconnected.	Ensure the suction area is clean. Replace or clean the cleaning cloths. Ensure the glass surface is relatively flat. Verify continuous power supply.
Red light indicator is on.	Abnormal condition detected (e.g., low suction, edge detection issue).	Check for obstacles, ensure the surface is clean and smooth. Reposition the robot. If the issue persists, contact support.
Robot is not cleaning effectively.	Dirty or worn cleaning cloths; insufficient cleaning solution.	Replace or clean the cleaning cloths. Use the cleaning bottle to apply a small amount of appropriate glass cleaning solution to the cloths.

8. SPECIFICATIONS

Feature	Detail
Item Type	Window Cleaner Robot
Material	ABS + Plastic
Solution	Microcomputer Drive System
Gravity Sensor	Supported
Built-in Sensor	MEMS automatic detection, auto-stop after wiping
Remote Control	Infrared remote control
Power-off Protection	UPS, built-in continuous power supply system (25 minutes), anti-power-off control algorithm
Route Planning	Intelligent route planning, auto-return to starting position
Safety Rope	High-strength (tensile strength 150Kgf), with rope buckle
Cleaning Speed	4 minutes / (square meter)
Minimum Erasable Dimensions	400 x 400 mm (15.8 x 15.8 inches)
Input Voltage	DC 24V / 3.75A (80W)
Built-in Battery	XPZ011, 14.8V (750MAh)
Power Extension Cord	4m / 13.1ft
Voltage Range	110-240V 50/60HZ
Remote Control Batteries	2 AAA batteries (not included)
Product Size (Approx.)	298 x 150 x 120 mm (11.7 x 5.9 x 4.7 inches)
Weight (Approx.)	2017g-2020g (71.1oz-71.3oz / 8.8 pounds)

Product Dimensions

Image 8.1: Product dimensions illustrating the length, width, and height of the window cleaner robot.

9. SUPPORT AND SERVICE

If you have any questions, require assistance, or encounter issues not covered in this manual, please contact our customer service. We are committed to providing 100% quality service as soon as possible.

For service inquiries, please refer to the contact information provided with your purchase or visit the official Generic product support website.