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SPIDER Smart Window Cleaner Robot

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Product Introduction

The Powerology SPIDER Smart Window Cleaner Robot delivers effortless, spotless windows through automated cleaning. With up to 4000Pa of powerful suction, dual-side atomized spray from 8 precision nozzles, and intelligent gyroscope navigation, it follows optimized N and Z cleaning patterns for complete coverage. Dual fall protection combines a built-in backup battery with a durable safety rope, giving you peace of mind on any glass surface. Whisper-quiet brushless motor performance and remote or Smart Life App control make window cleaning simpler than ever.



Structural Diagram

The underside of the SPIDER houses the microfiber cleaning cloths on either side of a central suction fan, with atomizer spray nozzles positioned along the top and bottom edges for even water distribution across the glass.



1. Microfiber Cleaning Cloth

2. Atomized Spray Nozzles

3. Central Suction Fan

4. Photoelectric Edge Sensor

5. Safety Rope with Carabiner

Safety Information

Warning:

1. Always attach the safety rope to a secure anchor point before operating the device on any window.
2. Do not use the device on cracked, broken, or loosely mounted glass.
3. Do not operate on windows smaller than the minimum size specified for the device.
4. Keep hands, hair, and loose clothing away from the suction intake and moving parts during operation.
5. Do not immerse the device, adapter, or remote control in water or any liquid.
6. Do not disassemble, modify, or attempt to repair the device.
7. Do not expose the device to open flame or high-temperature sources.
8. Do not drop, throw, or subject the device to strong impacts.
9. Unplug the adapter before cleaning the device or replacing the microfiber cloth.
10. Use only the supplied adapter and accessories to avoid risk of fire or electric shock.
11. Do not spray water directly onto the device body or into the suction inlet; fill only the designated water tank.

12. Keep the device, small parts, and batteries out of reach of children and pets.
13. Do not puncture, crush, disassemble or incinerate the built-in backup battery. Stop use immediately and disconnect the adapter if the device becomes hot, swollen, deformed, leaks, or emits odour or smoke.
14. When cleaning upper-floor or exterior windows, keep the area directly below the window clear of people, pets and objects at all times in case the device falls.
15. Do not operate the device on exterior windows during rain, high wind, or when the glass is wet, icy or covered in condensation, as suction performance may be compromised.
16. Do not use the device with a damaged adapter, plug or power cable. Always unplug the adapter by gripping the body of the plug, never by pulling on the cable.
17. The power adapter is for indoor, dry use only. Keep it away from water, rain and weather at all times, including when the robot is cleaning an exterior window.

Attention:

1. Follow the instructions in this manual for correct setup and operation.
2. Always inspect the safety rope and suction seal before each use.
3. Operate the device only on clean, flat, non-frame-obstructed glass surfaces for best performance.
4. The built-in backup battery activates automatically during a power interruption; do not rely on it as the primary power source.
5. Recharge the backup battery every 6 months if the device is stored unused for long periods to help preserve battery life.
6. Wring out the microfiber cloth so it is damp, not dripping, before attaching it to the device.
7. Empty the water tank and dry the cloth after each use to prevent mildew and residue buildup.
8. Do not use the device in extreme temperatures or in flammable or corrosive environments.
9. Store the device and adapter in a cool, dry place away from direct sunlight.
10. In case of any malfunction or warranty claim, please contact customer service.

11. Refer to the product label or packaging for the confirmed operating and storage temperature ranges, and do not use or store the device outside these limits.

12. Refer to the product label for the nominal battery voltage; the built-in backup battery is a 500 mAh Li-ion cell.



Setup & Operation

1. What's in the Box

SPIDER Smart Window Cleaner Robot

Power adapter (UK plug)

Remote control with 2 × AAA batteries

4 × microfiber cleaning cloths

2 × Edge brush

Water bottle

Safety rope with carabiner

2. Before First Use

Unbox the robot and confirm all accessories are present.

Attach a clean microfiber cloth firmly to the underside of the unit, aligning it evenly across both cleaning pads.

Insert the AAA batteries into the remote control, observing the correct polarity.

Download the Smart Life app from your device's app store and create an account if required.

Ensure the glass surface is free of large debris, stickers or obstructions before use.

3. Filling the Water Tank

Using the included water bottle, fill the 200mL water tank with clean water only.

Do not add detergents, cleaning agents, alcohol or any other liquids that may damage the pump.

Close the tank cap securely to prevent leakage during operation.

Wipe any spilled water from the exterior of the robot before placing it on the window.

4. Attaching the Safety Rope

Locate the safety rope attachment point on the top of the robot.

Clip the carabiner securely to the attachment loop.

Anchor the other end of the rope to a fixed, load-bearing object indoors.

Verify the rope is not tangled and has enough slack to allow full window coverage.

Never operate the robot without the safety rope attached, especially at height.

5. Powering On and Starting a Clean

Connect the power adapter to the robot and plug it into a mains outlet (100–240V AC).

Press the robot firmly against the glass until suction engages fully.

Release the robot only after suction is confirmed by the audible indicator.

Press the Start button on the remote (or in the app) to begin the default cleaning path.

Select the desired cleaning mode: N Pattern, Z Pattern, Edge Clean or Spot Clean.

When cleaning is complete, the robot will return to its starting position; press Stop and remove it from the glass by hand.

6. Connecting to the Smart Life App

Open the Smart Life app and tap 'Add Device'.

Select the SPIDER Smart Window Cleaner Robot from the device list.

Follow the in-app prompts to connect to your 2.4GHz Wi-Fi network.

Once paired, you can start, pause, change modes and monitor status remotely from the app.

Specifications

Rated Power	72W
Suction Power	2800-4000Pa
Motor Type	Brushless Motor
Battery Capacity	500mAh Li-ion
Backup Battery Working Time	20 Minutes
Water Tank Capacity	200mL
Cleaning Speed	About 3min/m²
Noise Level	<65dB
Cleaning Modes	N & Z Pattern, Edge Clean, Spot Clean
Water Spray System	Dual-Side Automatic Spray
Control Methods	Smart Life App + Remote Control
Adapter Plug Type	UK Plug
Remote Control Range	Up to 10m
Edge Detection Technology	Automatic Photoelectric Sensors
Input Voltage	100-240V AC, 50/60Hz
Product Size	240 x 240 x 75mm
Product Weight	1.64kg
Model Number	PWW53D



Key Features

1. Max 4000Pa Powerful Suction — strong adhesion keeps the robot secure on vertical glass surfaces.
2. Smart Gyroscope Navigation — advanced gyroscope follows Z and N cleaning paths to maximize coverage.
3. Dual-Side Atomized Spray — 8 precision nozzles evenly mist water for streak-free cleaning.
4. High-Density Fiber Mop — professional microfiber cloths provide excellent stain removal.
5. Brushless Suction Motor — delivers powerful performance with reduced operational noise (<65dB).
6. Dual Fall Protection — built-in 500mAh backup battery with up to 20 minutes of holding time, plus a durable safety rope.
7. Intelligent Edge Detection — automatic photoelectric sensors detect window frames for safe navigation.
8. Dual Control — operate via the Smart Life App or the included remote control (up to 10m range).

Care & Maintenance

1. Routine Care

Remove the microfiber cloth after each use and rinse thoroughly with clean water.

Allow the cloth to air-dry fully before reattaching; replace worn cloths with the spares provided.

Empty any remaining water from the tank after use to prevent limescale buildup.

Wipe the exterior of the robot with a soft, slightly damp cloth — never immerse it in water.

Clean the atomizer nozzles periodically with a soft brush to prevent blockages.

Store the robot indoors in a cool, dry place away from direct sunlight.

Inspect the safety rope before each use for signs of fraying or wear, and replace if damaged.

Do not disassemble the unit; refer any internal service to authorized personnel.

Frequently Asked Questions

1. What types of windows can the SPIDER clean?

The robot is designed for flat, framed glass surfaces at least 40 x 40cm in size. It works on both interior and exterior windows, glass doors, mirrors and glass tabletops. It is not suitable for frameless glass or heavily curved surfaces.

2. How long does the backup battery last if the power is interrupted?

The internal 500mAh backup battery keeps the robot attached to the glass for up to 20 minutes in the event of a power cut, giving you time to safely retrieve it.

3. Do I need to use a special cleaning solution?

No. The SPIDER is designed to work with clean tap water only. Adding detergents or cleaning agents can damage the internal pump and void the warranty.

4. Can I control the robot without the app?

Yes. The included remote control operates the robot at ranges up to 10m and offers full control of cleaning modes, start/stop and direction without needing the Smart Life app.

5. How often should I replace the microfiber cloth?

Rinse the cloth after every use. With regular washing, each cloth lasts many cleaning sessions. Replace it once the fibers become matted, torn or no longer wipe effectively.

6. Is it safe to use on upper-floor exterior windows?

Yes, provided the safety rope is properly anchored to a secure indoor point before operation. Always attach the rope and verify secure suction before releasing the robot on any elevated surface.

Troubleshooting

1. Robot will not power on

The power adapter may not be fully connected or the outlet may be inactive. Confirm the adapter is plugged in securely at both ends and try a different mains outlet.

2. Robot will not stick to the window

Suction may be reduced by a dirty cloth or an uneven glass surface. Fit a fresh, damp microfiber cloth, ensure the glass is smooth and clean, and press firmly until suction engages.

3. Water is not spraying from the nozzles

The tank may be empty or the nozzles blocked. Refill the water tank with clean water and clear the nozzles using a soft brush or a fine pin.

4. Windows have streaks after cleaning

The microfiber cloth may be dirty, dry or worn. Rinse or replace the cloth, and make sure it is lightly damp before starting a new cleaning cycle.

5. Robot stops or falls off during use

Suction loss can be caused by a dirty cloth, low battery or a sudden power interruption. Clean or replace the cloth, verify the adapter connection, and always ensure the safety rope is attached before use.

6. Robot does not follow a straight path

Gyroscope calibration may be off, or the cloth may be attached unevenly. Restart the robot on a flat surface to allow it to recalibrate, and re-attach the cloth evenly on both sides.

7. Remote control is unresponsive

The batteries may be depleted or you may be outside the 10m range. Replace the remote batteries and operate within line of sight of the robot.

8. Smart Life app cannot find the robot

The device may not be in pairing mode or your Wi-Fi may be 5GHz. Reset the robot to pairing mode, confirm you are connected to a 2.4GHz Wi-Fi network, and follow the app's pairing instructions again.

9. Robot stops at the edges without cleaning them

The photoelectric edge sensors may be dirty or the window frame may be reflective. Wipe the sensors gently with a soft cloth and select Edge Clean mode for a dedicated perimeter pass.

10. Operating noise is louder than expected

Debris may be caught in the suction fan or the cloth may be misaligned. Turn the robot off, clear any debris and re-fit the cloth evenly before restarting.

11. Cleaning cycle ends too quickly

The selected mode may be Spot Clean or the water tank may have run dry. Choose N or Z Pattern for full-window coverage and refill the water tank before restarting.

12. Robot beeps continuously

Continuous beeping typically indicates low suction or an obstacle detected. Remove the robot from the glass, check for debris on the pads, clean the surface and try again.

Disposal

This product must not be disposed of as unsorted household waste. It is important to separate such waste for proper treatment and recycling, in compliance with local waste management regulations.

Warranty

Products that you buy directly from our Powerology website or shop come with a 24-month warranty.

The 24-month warranty applies to products purchased directly from our Powerology website or store. If Powerology products are bought from any of our verified retailers, then the product is eligible for only a 12-month warranty. To extend your product's warranty, visit our website www.powerology.me/warranty and fill in your details in the provided form along with an uploaded picture of the product to

process your request. Once approved, you will receive a confirmation email of the extended product warranty. Upload the required information within 48 hours of purchase to be eligible for a 24-month warranty period.

For more info, please check: www.powerology.me/warranty

Contact Us

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