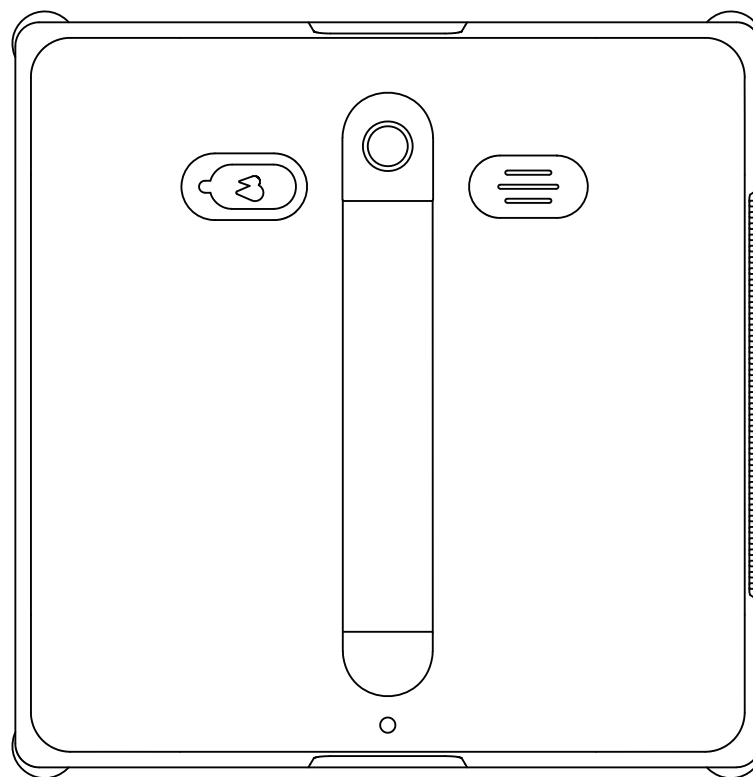


ZHIPAE

Smart Window Cleaner Robot Instruction Manual



W50S/W50D

Please keep this instruction manual of this product.
Please read the instruction manual carefully before use.

1.Safety specifications

When using the product, please be always vigilant and follow these instructions!

Please read this instruction manual carefully before using the product!

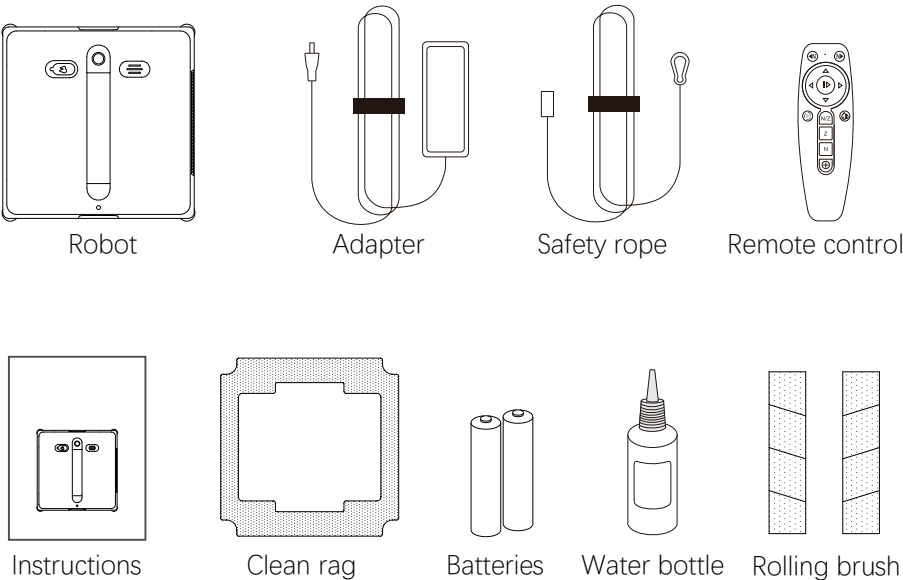
Please save the instruction manual!

1. The product cannot be used by children under the age of 8 or by persons with physical or mental disabilities. If necessary, please do it under the supervision and guidance of a guardian. Do not allow children to come near products that are in working condition or play with them as toys.
2. Do not use this product in extreme environments (temperatures below 0°C and temperatures above 40°C).
3. Please keep the product in a powered state at all times while the product is working. The built-in safety backup battery of the product is only used to maintain the product in the event of a sudden power failure, keep adsorbed on the glass for a limited time and not fall, and must not be used as normal power supply, so as not to bring risks.
4. During the use of this product, please ensure that someone is there to watch over and help the product if necessary. While the robot is working, remove valuables from under the robot and make sure that any animals do not stand under the working robot.
5. Use only in home environment and indoor environment, do not use in commercial and industrial places.
6. Do not use this product on glass that has broken holes, bumps and all kind of stickers to avoid risks or drop out.
7. Use this product as directed in the instruction manual, using only accessories recommended or sold by the manufacturer; only applicable to original rechargeable batteries and adapters supplied by the manufacturer.
8. Make sure that the supply voltage matches the voltage indicated on the adapter.
9. Make sure to use this product on glass with a glass thickness more than 5mm.
10. Do not use on large areas of wet or oily glass to avoid the risk of slipping and falling of the product.
11. Keep products away from heat sources or flammable materials.
12. It is forbidden to use this product when the product is not completely adsorbed or there is obvious damage.
13. Do not place this product in water or other liquids to reduce the risk of electric shock; do not store this product where it may be dropped or pulled into the tub or sink.
14. Do not touch the plug or product with wet hands.



15. Battery charging should not be carried out in an overheated or cold environment, which may affect the service life of the battery.
16. The product cannot be used when the adapter is not powered to the adapter.
17. It is forbidden to put the robot on household appliances, wet or in the place with a fire source for charging, so as not to cause unnecessary losses.
18. Please use the power cord carefully to avoid damage, and do not use the power cord to drag, lift the product or use the cord as a handle. It is forbidden to close the glass window to clamp the power cord or place items on the power cord during use, and the power cord should be kept away from the heat source.
19. Do not use this product with a damaged power cord or power outlet. Do not use the product when it does not work properly due to dropping, damage or water ingress, to avoid injury, the product should be repaired by the manufacturer or its after-sales service department.
20. If the power cord is damaged, it must be replaced by a professional from the manufacturer, its maintenance department or similar department in order to avoid danger.
21. The plug must be unplugged from the electrical outlet before maintaining or cleaning the product, but do not pull the power plug from the outlet by pulling the power cord.
22. The battery must be replaced by a professional from the manufacturer, its maintenance department or similar department.
23. Before the product is scrapped, the battery must be removed and scrapped in accordance with local laws and regulations and environmental protection regulations.
24. If you need to scrap this product, please disconnect the power to the product before removing the battery from the product.
25. Dispose of used batteries in accordance with local laws and regulations and environmental regulations.
26. Incineration of the product is prohibited even if it has been severely damaged, as the battery of the product may cause an explosion.
27. Please use the product as directed in this manual. The Company shall not be liable for any loss or injury caused by improper use.
28. It is strictly forbidden to use this product by children, mentally handicapped persons or people who lack common sense and experience in using home appliances without the guidance of a dedicated person.
29. While the robot is working, supervise the child's behavior to ensure that the product is not being played.
30. Children are strictly prohibited from playing with the product.
31. It is strictly forbidden for children to clean, operate and maintain the product without supervision.

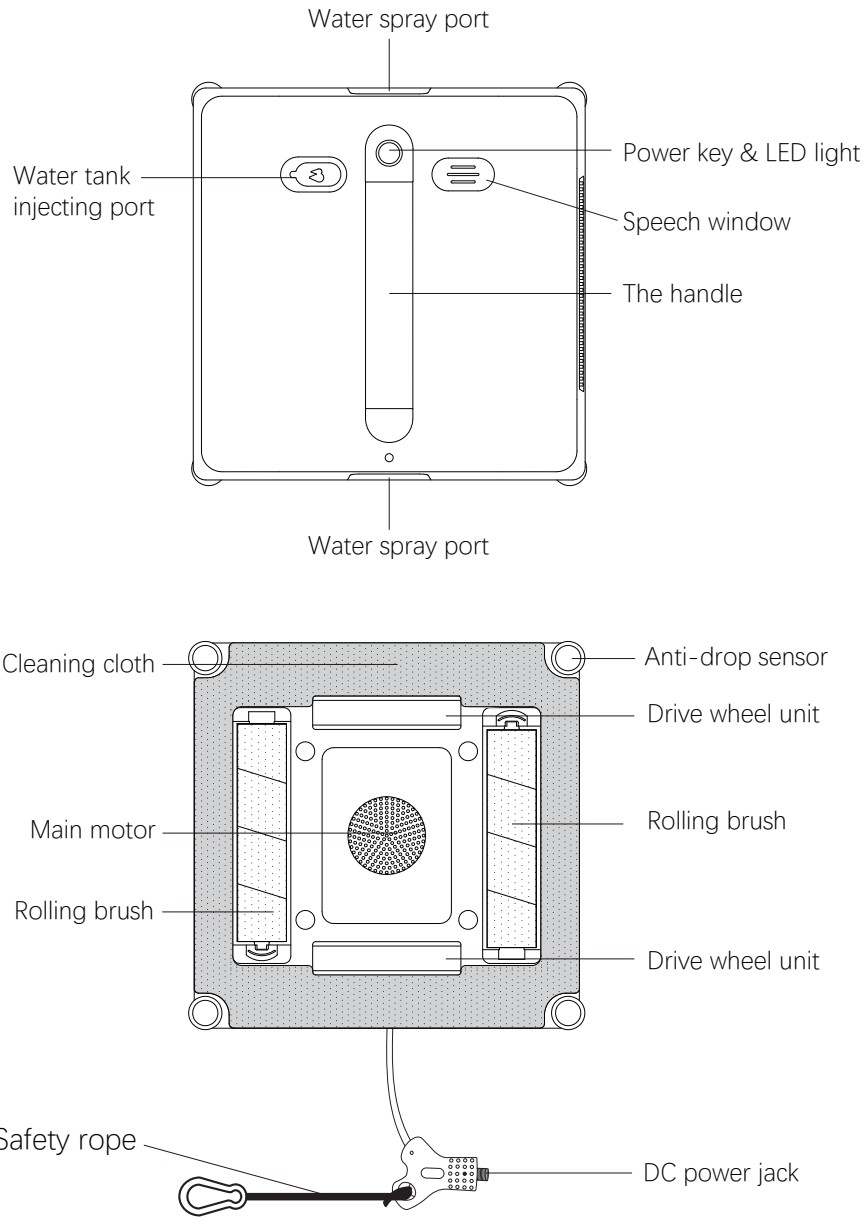
2.Product composition

2.1 Products and accessories



2.2 Technical specifications

Operating voltage	24V 	Rated power	90W
Remote control			
Rated input voltage		3V 	
Adapter			
Input: 100-240V~50/60Hz		Output:24V/3.75A	



Using of Remote control

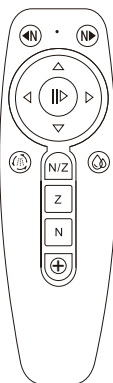
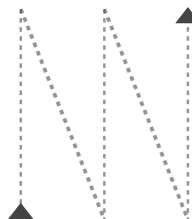
	From the start of the robot, perform an N-mode path sweep to the left area
	From the start of the robot, perform an N-mode path sweep to the right area
	Direction key : Manually move up, down, left, right
	Start/Pause button: Start automatic cleaning/ Pause cleaning
	Auto spray water : press this button during work, and the robot sprays water at intervals
	Manual spray water : Spray water once
	N + Z key: N mode cleaning first, then Z mode cleaning
	N mode cleaning
	Z mode cleaning
	Major point cleaning

Product work/pause

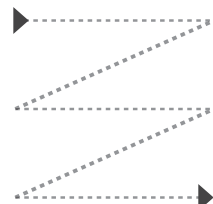
After the robot is successfully attached, press the Power key button or start the automatic working mode through the "▶" button of the remote control. The robot defaults to N+Z mode and the path starts cleaning.

The "▶" button on the remote control can be used to pause or resume the work.

The "N" button is suitable for vertical glass, and the product works in the "N" route.



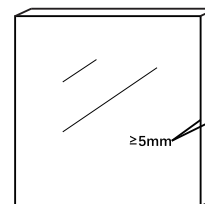
In the suspended state, the direction of product movement can be controlled through the "◉" button on the remote control, and the product working path can also be switched.



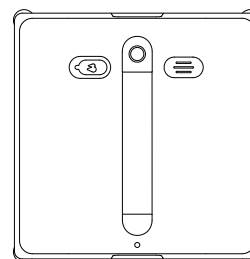
The "Z" button is suitable for horizontal glass, and the product works in the "Z" route.

3.Using

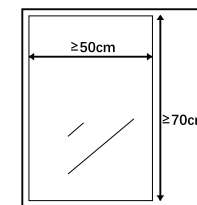
3.1 Precautions before use



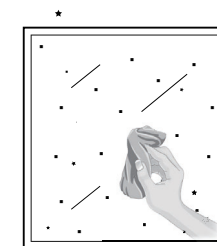
It is strictly forbidden to use this product on framed glass with a frame thickness (height difference from the glass surface to the frame surface) < 5mm.



Connect the adapter, if the red and blue lights flash alternately the robot is in the charging state, make sure that it is charged until the blue light is solid (about 1 hour), the product cannot perform cleaning work when the red light flashes.



Note: Please use this product on framed glass with an area $\geq 50 \times 70$ cm.



There is too much dust on the glass surface. Before using the product, please wipe out a clean area of the product for product adsorption.

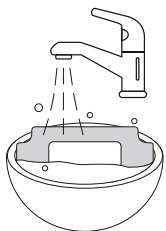
*When there are immovable obstacles (such as guardrails, furniture, etc.) in front of the window, this product can only be used when the distance between the window and the obstacle is more than 8.5 cm.

* The product does not work on the horizontal glass surface.

* If you use this product on a window that is not completely vertical, there is a possibility that the product may not operate properly, please make sure that someone is there to watch over and help the product if necessary.

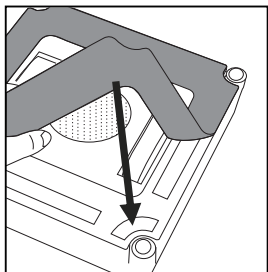
*This product cannot be used upside down.

Please fully wet the cleaning cloth in water and wring it out as much as possible by hand.

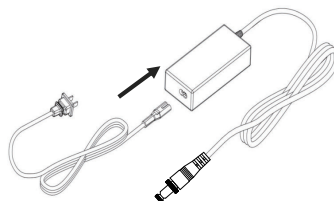


3.2 Install the cleaning cloth

Align the cloth and stick it inside the adsorption plate at the bottom of the product.

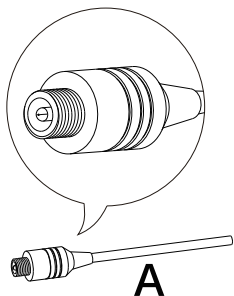


3.3 Connect the adapter

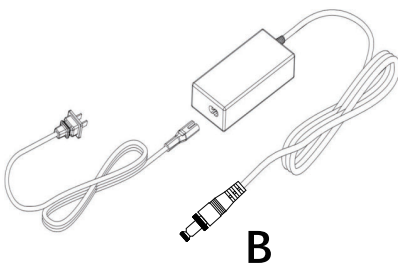


3.4 Assemble safety rope

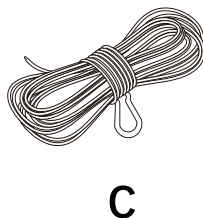
When wiping glass with this product, secure the product with a safety rope to improve the safety performance of the product.



Product power cord end



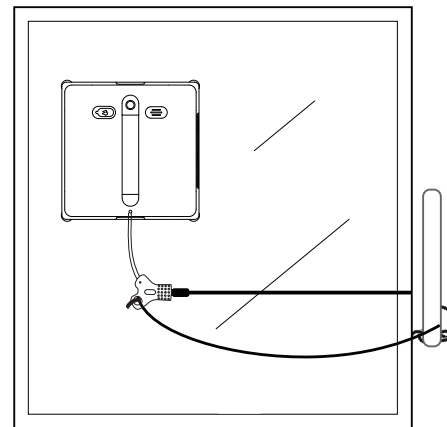
Adapter power cord end



Safety rope end

3.5 Use extension cords as needed

Depending on the actual distance or glass size, the length can be increased using extension wires, each extension wire is 1.5m. Note that when the product is used outdoors at height, use up to 1 extension cord.

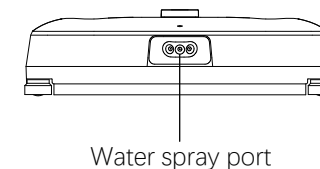
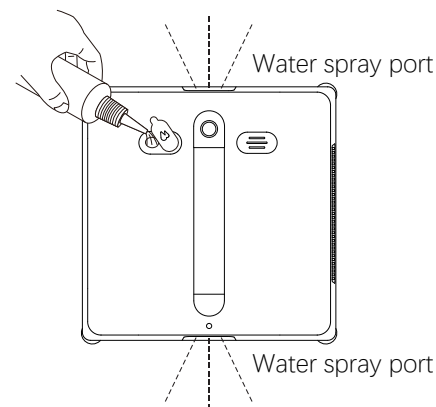


Install the safety buckle

When wiping glass with the product, the safety rope needs to be secured elsewhere in the room.

When using the product to wipe the outside of the glass, close the window so that the gap between the window is slightly larger than the diameter of the safety rope.

3.6 Add water or glass water (Do not add liquid soap and dishwashing liquid)

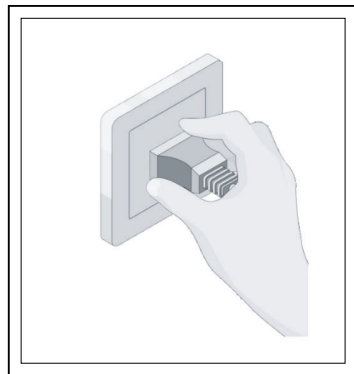


3.7 Working mode

1. Connect the power adapter

The adapter plug is connected to the power outlet, and after the DC end is connected to the robot, the robot blue light is always on.

* When the product is running, do not disconnect the power supply. If the power is cut off, the product will be at risk of falling.

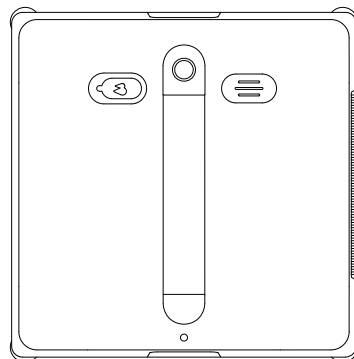


2. Short press the power button

Press the "⏻" button shortly, the blue light flashes, and the fan starts to work.

* Do not place the fan near small objects such as hair,

In order to avoid blocking the base fan from affecting the operation of the product.



3. Adsorption

Place the product more than 10cm away from the glass frame, and wait for the blue light to turn on and the adsorption is successful.

*When there are immovable obstacles (such as guardrails, furniture, etc.) in front of the window, this product can only be used when the gap between the window and the obstacle is greater than 8.5cm.

4. Short press the power button

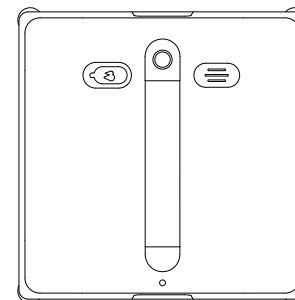
Press the "⏻" button shortly, and the robot starts working in N+Z mode.

3.8 End of work

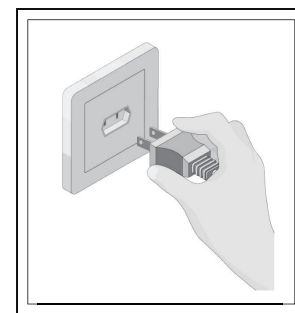
When the glass cleaning is complete, the product will return to the starting position with a beep.

1. Remove the product

Hold the product handle tightly, press the "⏻" button for 3-5 seconds, the fan stops working, remove the main unit.



2. Disconnect the power supply



Note: If the product has a red light alarm during the working process, please check whether the power adapter is connected, and the blue light of the product is always on after the connection is normal, and it will automatically resume work. If the power adapter is connected normally and the product still has a red light alarm, please use the arrow keys of the remote control to control the product to leave the position, and press the start/pause button of the remote control when the blue light is solid, then the product will resume work.

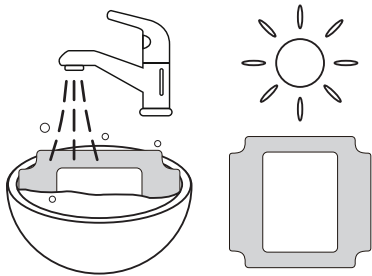
4. Maintenance

4.1 Clean the cleaning cloth

Remove the cleaning cloth, soak in water at about 20°C for 2 minutes, then gently hand wash and dry before use.

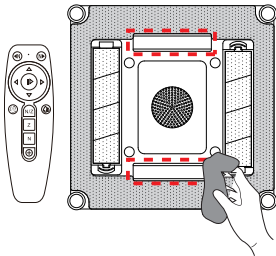
* Do not use the cleaning cloth directly after washing to avoid slipping during use.

Good maintenance is conducive to prolonging the service life of the cleaning cloth. When the cloth is too old to stick to the adsorption plate at the bottom, replace it in time to achieve the best cleaning effect.



4.2 Clean the wheels

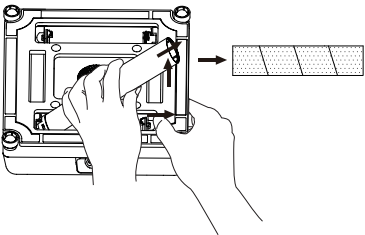
1. Connect the adapter, the blue light is always on, press the remote control "▲" key 3 times, the wheels turn, use the cloth to wipe the wheel, press the remote control "▲" key once when finished cleaning, the wheels stop rotating.



* The wheels is easy to stick to dust and water during the use of the robot and cause slippage, please clean the wheels in time.

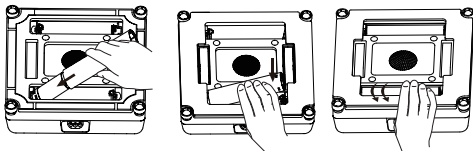
Roll brush disassembly, cleaning

Push the roller button downwards, then lift the roller upwards to remove the roller brush.



Mounting roller brush

Use a roller brush to lift the end with the roller brush motor installed, then put it in and rotate it to the bottom. After assembly, press the roller brush down and rotate it until a "click" sound is heard, indicating that the roller brush is complete. Ensure that the shaft on the roller brush is installed into the bearing on the machine.



5. Indicator light and sound description

The blue light flashes	The product did not adsorb successfully
The red light is always on	Product fall prevention is abnormal
The blue light is always on	The machine adsorbs glass successfully and can run normally
The red light flashes and alarms	Adapter power off

6.Troubleshooting

1	The robot walks slipping	Excessive dust on tracks or wipes	Clean tracks or wipes.
2	Red light is flashing and alarm	The power adapter is powered off	a. Turn on the power first, and then press the "start" button, the product continues to work. b. In the event of a power outage, use the remote control arrow keys to remotely control the product to an easily accessible place and remove the product. *There is a risk of using the remote control in the event of a power outage, so please make sure that someone is there to watch over.
3	The product drive wheel is idling and the walking path is abnormal	The glass surface is too dirty	a. Clean the drive wheels. b. Change the cloth. *This product is not suitable for cleaning heavily dirty glass.
4	The product cannot walk after absorbing the glass	The cleaning cloth is not installed correctly and may cover the drop sensor	Please remove the cloth and reattach it, taking care to keep the cloth flat and not affect the operation of the anti-drop sensor.

FCC WARNING

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

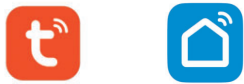
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction

Tuya App Operation Guide

Note: The first time to connect to the Tuya Smart APP, the machine needs to be connected to the adapter to connect the power, and then press the remote control OK button 3 times, the machine drops a sound to complete the operation. The next step is to download the Tuya Smart APP.

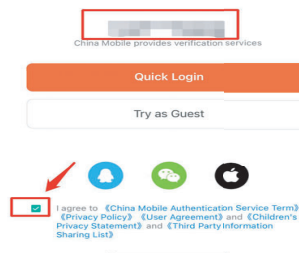


1. Open the mobile phone Bluetooth, search for (Tuya Smart APP/Smart Life APP) in your mobile application or Google Play browser, and install it.

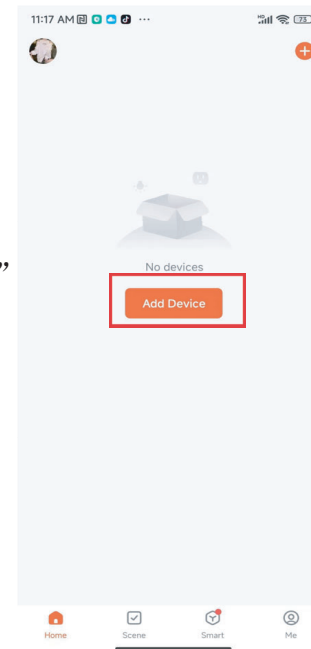
14:18
Log in with Password



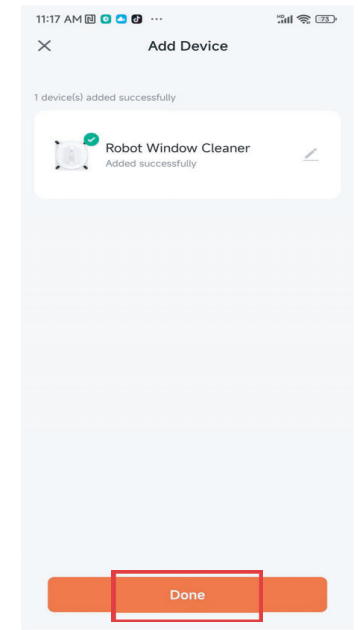
2. Register an account and set a password



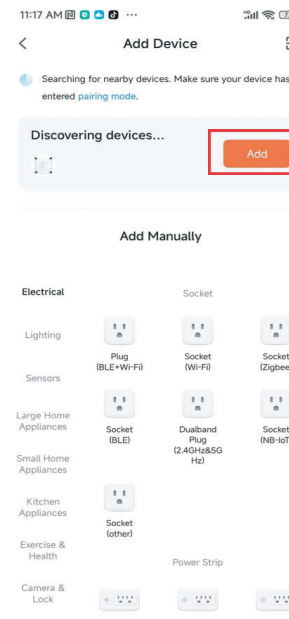
3. Click Add "Device"



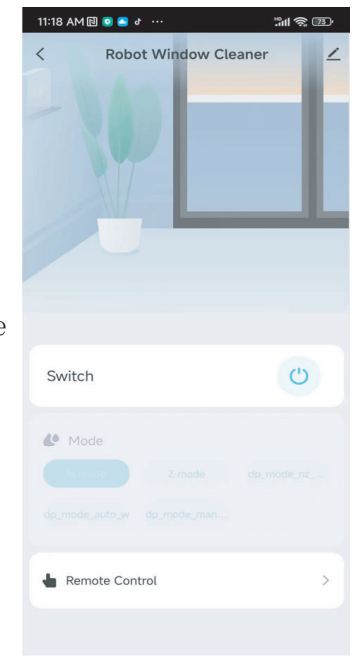
5. Click "Done"



4. Click Add



6. operation interface of smart APP control panel



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