

悍客®

Fully automatic wheeledmobile humidifying robot



USER GUIDE

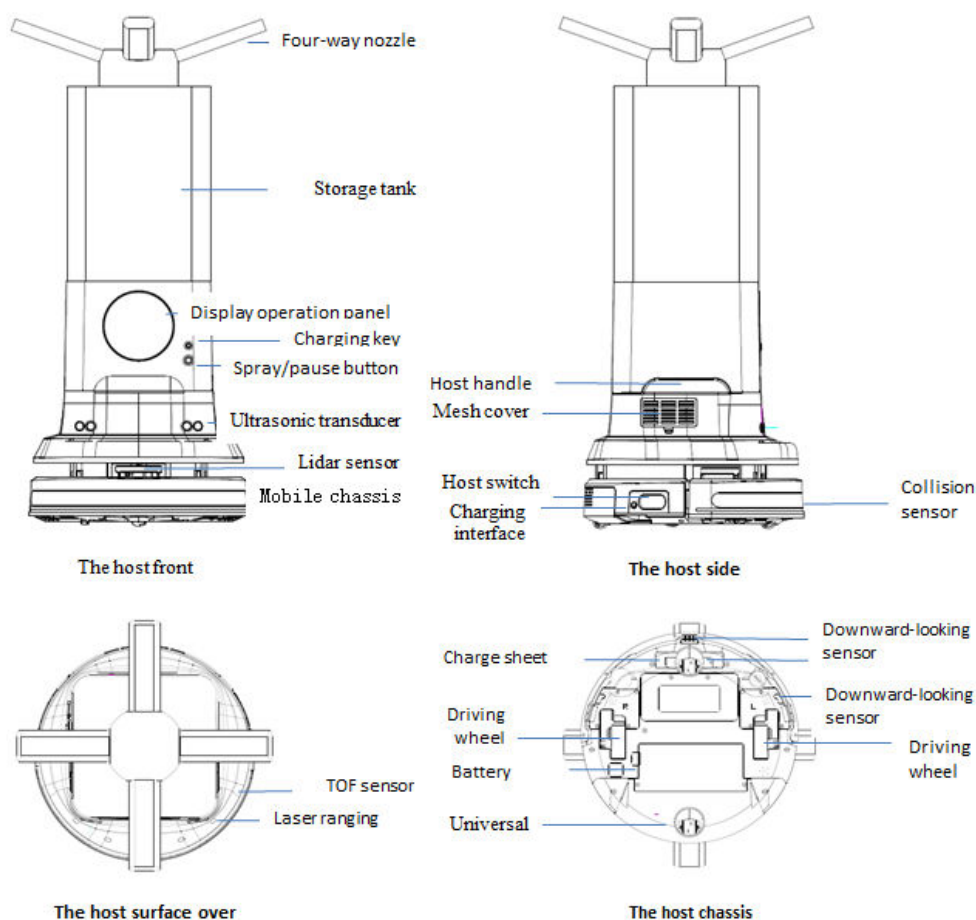


Thanks for your choosing our product



Please read this instruction carefully before using this product

1. Name about parts of product



Cautions:



Do not use on sloping roads



Do not use on rough roads



Forbid flammable liquid



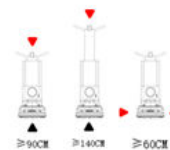
Do not use in outdoor



Do not use in bright



lightLimit height 90cm, width 60cm
(Heightlimit about using the extension tube140cm)



2. The characteristics of product



Out of box

No need for installation, debugging and training of engineering personnel. After receiving the product unpack, add pure water or clean water, the user can start to use with one key.



Automatically mapping/Autonomous Path Planning

After starting up, the robot will automatically explore the surrounding environment to generate a map and plan the bow path or the shortest path (selected by the user).



Point arrival/automatic cruise

After the robot has planned the path, it can reach the travel mode or the automatic cruise travel mode.



Intelligent travel/automatic obstacle avoidance

In order to achieve the best spraying coverage effect, the robot is kept in the center. However, when passing through the narrow area, it will automatically adjust the right exercise state. After the fixed obstacle robot "finds" the route for the first time, it will actively avoid when planning the route.



Auto return/auto continue task

When the robot is short of electricity or water, the robot will automatically return to the charging station for recharging or waiting for recharging. Continue the interrupt task after completion of the supplement.



Voice broadcast/support mobile phone control

The robot can be customized to repeat the broadcast (voice broadcast needs to be customized). The status information of the robot can be displayed in real time on the mobile phone, and it can also be controlled remotely by the phone (APP needs to be installed, and the robot needs to be in WiFi environment).

3. 装箱清单



Note: the company reserves the right to change the products and accessories. This list is for reference only

4. How the product works

The ultrasonic air spray module USES the principle of producing 1.7 million high-frequency oscillations per second to spray water into 1~5-micron ultramicro particles. Through the pneumatic device, the liquid fog is diffused in the air to achieve the purpose of covering a certain area with moisture. Ultramicro water particles do not cause significant droplets or moisture in the environment but can float in the ambient air for a long time. The chassis moving module is an automatic navigation moving control system with advanced LSLAM+ inertial navigation and a variety of sensor technologies. The system drives the spray module to move at a planned uniform speed, to achieve the goal of uniform humidification over a large area.

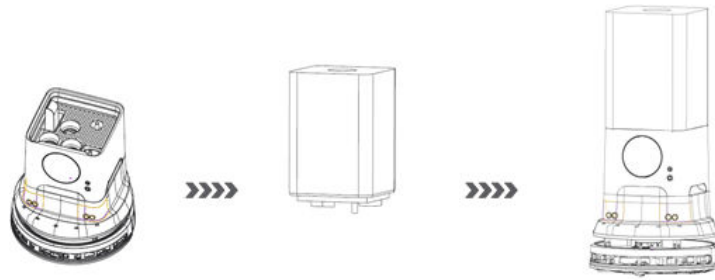
5. Product instruction and function instruction

Product installation instructions:

1. Take out the robot base from the packing box and place it on the horizontal plane, and place the grid in the tank of the robot base.



2. Place the water storage tank in the base of the robot.



3. Place four-way sprinkler head to complete the overall installation

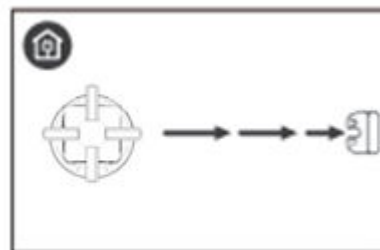


Robot charging instruction:

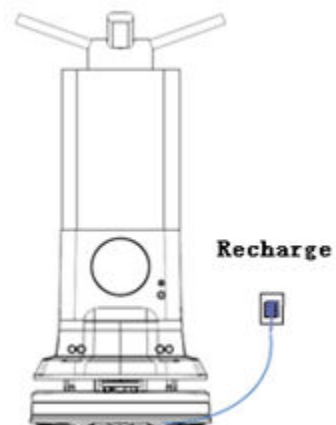
1. Connect the charging stand to the ac power supply of 220V ~ 50Hz, and the charging stand light will be on.



2. Place the robot on the horizontal plane, lightly touch the recharging key or move the mobile machine to the charging station for automatic charging or manual charging



Automatic return charge



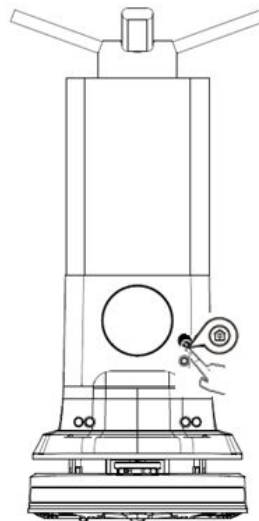
Manual charging

Instructions on App installation and WIFI pairing:

1. Search for "doodle intelligence" in the App Store or Android App stores or scan the qr code below to download and install.

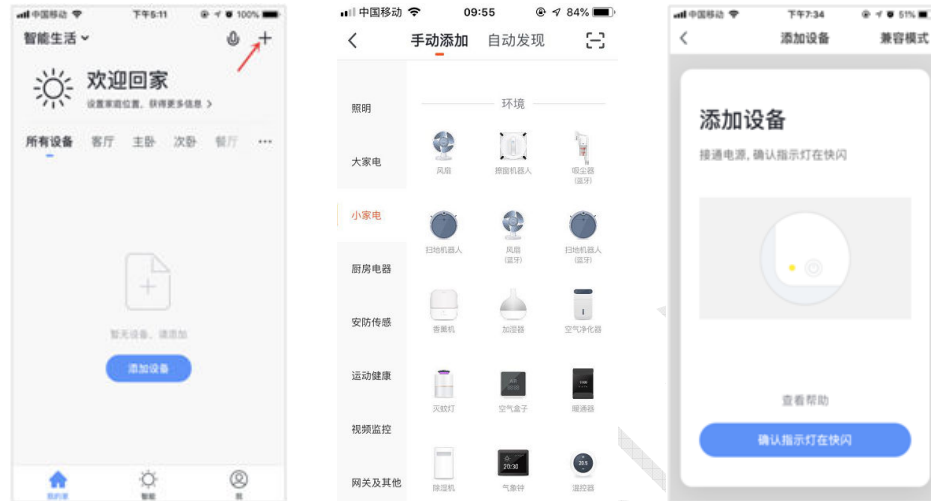


2. After touching the recharging button gently and pressing the recharging button for 5 seconds, the robot will start the WiFi connection mode. Please operate the phone to connect to WiFi (at the same time, make sure that the phone is connected to the WiFi network of 2.4ghz band) and make sure that the robot, phone (tablet) and router are close to each other;

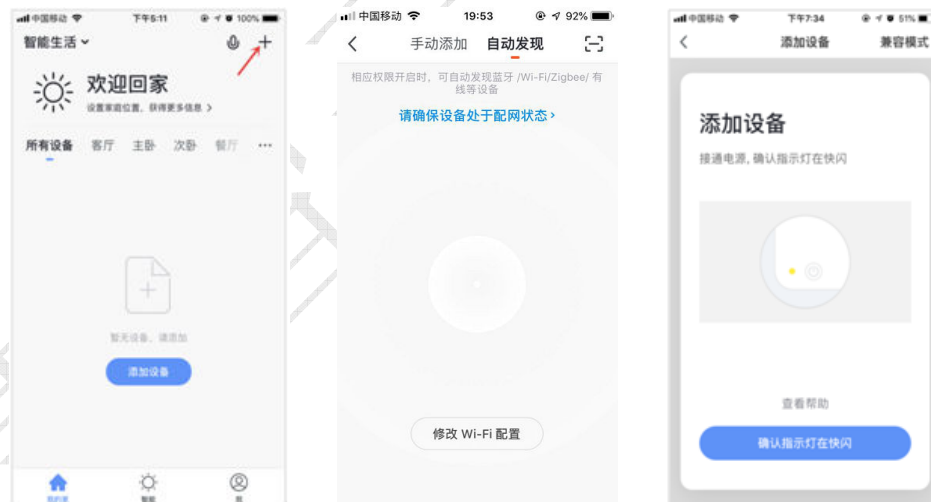


3. Open the App and download it for the first time. Please click the "create a new account" button to register.
4. Open the doodle smart App and click the "+" button in the upper right corner of the page.

5. Select the mode of "manual addition" or "automatic discovery". When manually adding, select "small appliances" from "category" on the left list page, and then select "intelligent humidifying robot".



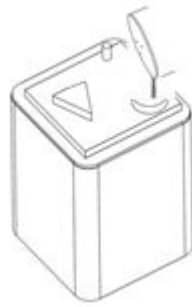
6. When using auto discovery, start searching for robots when you select "auto discovery" at the top of the page;



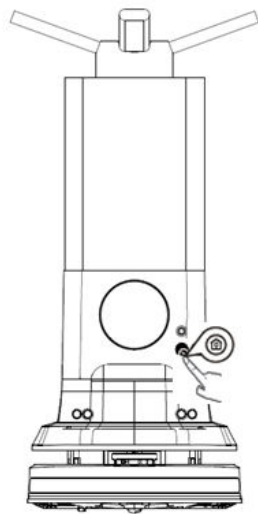
7. After completion of pairing, the system prompts "completion of pairing".

Pure water or clean water addition and instructions for the use of the robot:

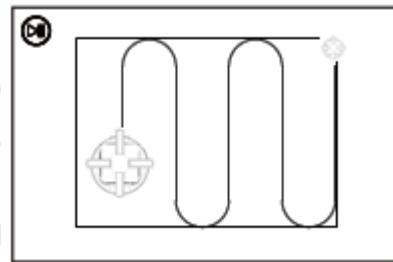
1. Put the machine on the horizontal plane, take off the storage tank and turn it upside down, bottom up, take off the tank cover, inject an appropriate amount of disinfectant solution, and then put the storage tank back on the machine stand smoothly;



2. Turn on the power switch and spray switch of the robot, adjust the amount of fog, and gently touch the spray/pause button to start the planning of spray work;

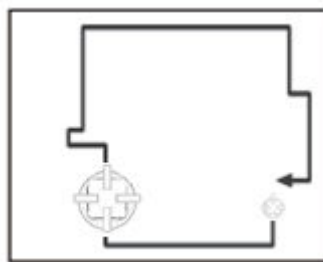


Planning the spray



Planning the spray

3. Long press the spray/pause button for 5 seconds and start drawing along the edge.



4. When the water level of the water storage tank of the machine is too low, the machine will automatically cut off the power supply of the ultrasonic air spray module and stop the spray work, and the display will show the red indicator light. At the same time, the robot will return to the charging base to replenish the point
5. If personalized Settings are required, the robot can be operated through the mobile

APP of the robot

function declaration:

1. Off key function: this product has the power saving function of turning off the LCD screen, gently touch the off key to turn off the LCD screen, and repeat the operation to turn on the LCD screen.
2. Timing key function: this product has the function of setting up a timer to shut down and enter the standby state. The function can be set up for 1~12 hours after automatic shutdown for standby state
3. Humidity key function: when the product enters the humidity function, the "humidity" on the LCD screen flashes. The default humidity is 45%
4. Fog key function: the product is divided into low fog, medium fog and high fog. The three levels of fog can be adjusted by pressing the fog key every time to adjust the cycle
5. Spray power button: after the product is charged, gently touch the power button of the sprayer to open, the spray starts to work, the LCD screen lights up, and then gently touch the power button of the sprayer to stop working. (this design considers the user's demand for spray humidification at fixed points)
6. Alarm of water level: when the water level is lower or higher than the set position, the robot will alarm and return to the origin
7. The functions of App are as follows:
 - Apphas the function of operating interface with the robot, such as: off screen key function, timing key function, humidity key function, fog key function and spray power key function.
 - Planning spray function: the most used spray function mode, the robot according to the actual environment, the bow shaped path planning spray.
 - Which spray which function: it is applicable to the specified point-to-point path area spray function, return to the origin after spraying.
 - Zoning spray function: applicable to the designated area spray function, return to the origin after spraying.

- Cycle spray function: this product has the function of cycle spray in the setting area (when timing and cycle times are used at the same time, cycle times are preferred)
- Environmental detection: real-time monitoring of environmental temperature and humidity, and report to the mobile APP

7. Maintenance

1. When cleaning, please be sure to move the humidified robot chassis to prevent water
2. If there is scale on the surface of the water tank or atomizer, pour the dissolved scale remover, citric acid, or white vinegar, then wipe with a cotton swab or brush and rinse with water.
3. Rinse the soft cloth in warm water of less than 40 degrees Celsius and wipe away the stains on the surface. Do not use a wire ball or a nylon cloth to wipe the body, to avoid scratch and damage on the surface and affect the normal operation of the sensor.
4. Do not use diluent, toluene, acid detergent, alcohol, or chemical cloth to wipe.
5. The side screen of the product shall be cleaned after disassembly regularly for two months.
6. If it is not used for a long time, clean it and put the parts into the packaging box according to the original packaging order after air drying, and put them in a dry place for safekeeping.

8. Safety tips

1. Please do not pull the plug of the charging socket with wet hand to avoid the risk of electric shock.
2. The power cord shall not be scratched, damaged or knotted, and heavy objects shall not be pressed or clamped or processed, or it may lead to the danger of electric shock, short circuit, or fire.
3. Do not disassemble, repair, or transform the product without authorization.
4. When starting the machine, please do not touch the atomizer with your hand, or it will cause pain.
5. Do not separate the spray storage tank from the base, and do not touch the parts in the base

9. Precautions

1. Read the operation indicators of this manual carefully when using and keep them

properly for future reference.

2. Only use the original rechargeable battery and charging stand specially equipped by the manufacturer. Non-rechargeable batteries are strictly prohibited.
3. When using the machine for the first time, please make sure to charge the machine continuously for more than 4 hours.
4. Please use at normal room temperature (-10°C ~ 40°C)
5. When using the robot, please keep away from the heat source.
6. When using the robot, please check whether the sensors are blocked by foreign bodies.
7. Minimum clearance interval of 58 cm for robot.
8. Do not spray or place flammable, surfactant around the machine.
9. When using, please put the grid in the machine, can not be taken out.
10. Never fill the water storage tank or base with hot water above 40°C to avoid damage to the machine
11. must not let the water from the outlet into the body, the body has water please wipe clean with a dry cloth.
12. When the temperature is below 0°C , please empty the water from the water storage tank and the water tank to avoid freezing and damage to the machine.
13. It is strictly prohibited to inject water into the fog outlet and outlet.
14. When cleaning, please avoid water in the electrical appliances.
15. Avoid using on uneven or soft roads. If there are sundries or fragile items on the floor, please do not use them or use them after cleaning.
16. Please do not disassemble the body parts

10.Common faults and solutions

NO.	fault condition	possible cause	solution
1	Robot can't be charged	The robot is in a deep discharge state	Activate the battery, manually place the robot on the charging stand, charge it for three minutes and move it out. After repeating the action for three times, charge it normally for more than two hours
		The power adapter or charging socket is not connected	Connect adapter power correctly
2	Robots work short hours	The working time varies due to the pavement environment and load	/
		Due to deep discharge, the battery does not have enough power to work	Activate the battery, manually place the robot on the charging stand, charge it for three minutes and move it out. After repeating the action for three times, charge it normally for more than two hours
3	No light, no wind, no fog	The sprayer power button is not on	Retouch the sprayer power button
4	The light is on, but there is no mist	Pedestal overwater	Pour some of the water out of the base and reboot
5	Spray quantity is little	More scale or too much impurity in water	Cleaning atomizer
6	The liquid can't reach the base	The storage tank is dirty or not well placed	Clean water storage tank and install water storage tank correctly
		The liquid in the tank exceeded its maximum level	Reduce the water in the storage tank to no higher than the maximum water level
10	Voice prompt: "robot dangling, please handle"	The robot hangs in the air as it moves	First check whether the driving wheel of the machine touches the ground, and then shift the robot to the horizontal ground
11	Voice prompt: "robot active wheel winding, please remove winding"	The robot winds around other objects as it moves	Check if there is any foreign matter in the driving wheel and clean the driving wheel

12	Voice prompt: "robot ground detection sensor fault, please clean the sensor"	Sensor dust or other foreign matter shielding	First, clean the sensor
13	Voice prompts: "robot battery is inadequate"	Normal power consumption	charge
14	The power lamp of the robot is always flashing	The laser range finder is shielded by water mist or foreign matter	Clean the laser range finder

11. After-sales instructions

1. Please fill in this form and keep it properly, otherwise the warranty will be invalid.
2. Please show this warranty and retailer's certificate when repairing within the warranty period
3. Warranty period: valid for one year from the date of purchase of invoice
4. Warranty limitations: the warranty will be invalidated under the following circumstances:
 - Customer incorrect maintenance.
 - Customer's unauthorized alteration, modification, misuse, or accidental damage.
 - The operating environment exceeds the product specification
5. The warranty does not cover normal wear and tear and man-made damage.

Warranty Card

Username	
Address	
telephone	
Zip code	
Purchase Data	
Buying patterns	
Store	
Invoice no.	
Models	
Water code	

12. Company information

www. idea-a. com. cn

深圳壹智云科技有限公司 (SHENZHEN IDEA-A TECHNOLOGY CO., LTD.)

**Address: Building 1, zone A, guangxing yuan bao 'an Internet
industry base, baoyuan road, baoan district, Shenzhen**

Zip code: 518102

telephone: 0755-27210919

©Idea-A Technologies, Inc.2013



关注我们，乐意为您效劳

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.

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.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.