

# 3D Cleaning Robot

Industry premiere | Clean all spaces in the room



Technology is changing the form of human labor



# Clean all spaces in washroom, not only ground

## What 3D cleaning?

At present, most cleaning machines on the market just focus on the ground, while Jingwu Robotics has launched a cleaning robot, which is mainly used in bathrooms. In addition to the ground, its cleaning targets include toilets, basins, and mirrors; and cover glass, mirrors, marble, ceramics and other materials. It really allows the robot to clean the whole space in the bathrooms.

The robot belongs to the composite robot series which adopts the integration of five core technologies.



3D Cleaning Robot





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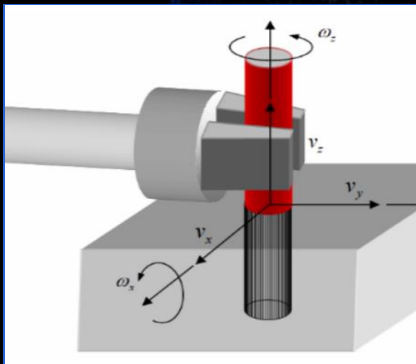


## Basic Information



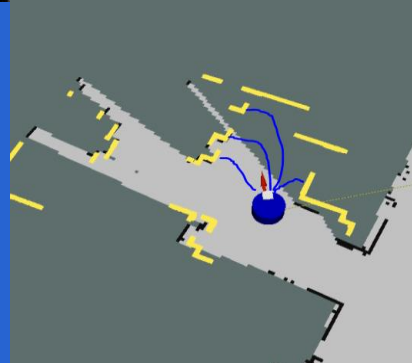


# Integration of five core technologies



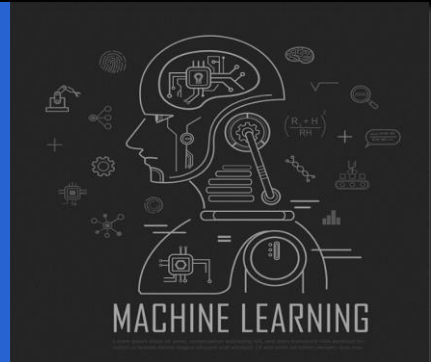
## Robotic arm Motion planning

Multi-joint, simulating a to give quick responses



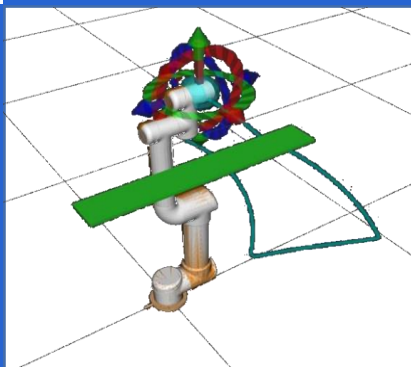
## Visual recognition

Hand-eye integration, image building, and positioning



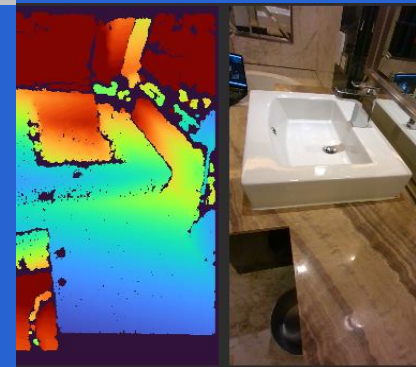
## Power control Identification

Strength varies according to the material



## High precision Exploratory

More laser sensing



## Self-learning

Gets a little better every day

## 01 Toilet cleaning

## 02 Washbasin cleaning

## 03 Mirror wiping

## 04 Ground cleaning



Multiple washes, taking into account both internal and external details

Integrated with multiple technologies, the cleaning robot accurately performs the sanitation process and even wipes the inner edge of the toilet seat, and presses the flush button and other refined actions.



**01** Toilet cleaning

**02** Washbasin cleaning

**03** Mirror wiping

**04** Ground cleaning



Different materials, different solutions

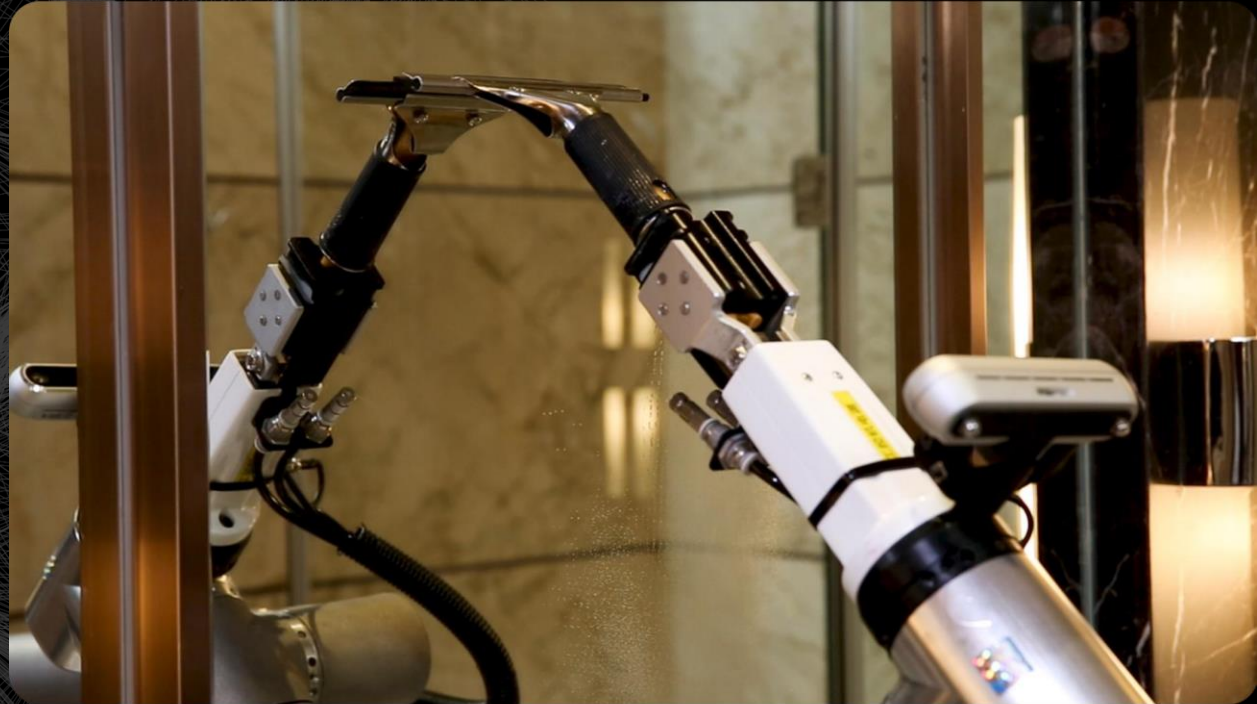
The washbasin area contains a variety of materials, such as marble countertops, ceramic basins, and metal bathroom accessories. The cleaning robot recognizes objects visually and adjusts the strength, taking into account the protection of appliances and the degree of cleanliness.

**01** Toilet cleaning

**02** Washbasin cleaning

**03** Mirror wiping

**04** Ground cleaning



Mirror cleaning requires professional detergent in addition to scraper tools. The space for placing the detergent is arranged inside the fuselage, and it can be sprayed and used through the front nozzle of the robotic arm.



## Functions and Features



01 Toilet cleaning

02 Washbasin cleaning

03 Mirror wiping

04 Ground cleaning



A variety of brush heads and fixtures are used to exchange automatically when the robot cleans the ground. And self-developed Z-shaped mopping program is well applied at the same time.

## Human-robot collaboration - a new cleaning model



1

### Easy operation

It's easy to operate under the basic training.



2

### Cost reduction and efficiency increase

One machine  $\approx$  1 cleaning staff  
Saves 1/3 cleaning time per room



3

### Maintain a clean environment

Once it is set, it will always be firmly executed according to the program, and the completion degree is 100% guaranteed.



### Custom-made service

The cleaning process will be ever-changing due to the different needs of each subject. So for each customer, Jingwu will provide customized solutions and services to ensure the quality of cleaning.



Skin customization

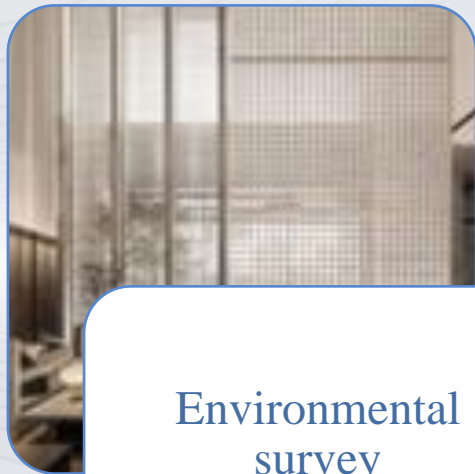


Process customization



Lensing customization

### Deployment Service



#### Environmental survey

Confirm the use environment, running route plan and elevator control connection



#### Deployment

Determine the initial position of the robot charging pile, intelligently map the hotel, elevator control and other IoT installations, and functional test



#### Finish

On-site testing and acceptance of the hotel, participation in on-site training initiated by JWAI. After the delivery is completed, a special after-sales service team will be established.



## Service and maintenance

### One year warranty, full service and maintenance



#### Staff training

Provide offline face-to-face training during installation. Daily online training courses available.



#### Daily support

Special service via group talking.  
Guidance on daily.



#### Remote support

Connecting technicians to solve problems remotely and efficiently through after-sales service



#### Onsite maintenance

Maintenance team in your side.

## About company

Founded in 2019, Jingwu Robotics focuses on technological innovation and is committed to promoting innovation in traditional service industry, improving the efficiency of the enterprises while freeing labor.

- The core team is chosen from the industry leaders with 17 years of experience
- It owns a factory with an area of 200,000 square-meters, with mass production scale
- Focus on four major areas and dive deep into vertical applications







Empower the service industry to free up  
the labor force



[www.jwai-tech.com](http://www.jwai-tech.com)



[https://www.youtube.com/channel/UCRquA\\_svzTVi\\_iHy8ej7O\\_A](https://www.youtube.com/channel/UCRquA_svzTVi_iHy8ej7O_A)



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