

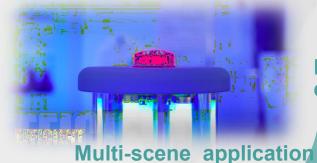
01 Product Profile

## 01 **PRODUCT OVERVIEW**

Replacing Manual,Auto Charging, Obstacle avoidance and timing tasks, Truly achieve 7\*24 hours of self-management, Ensure excellent disinfection effect.

## INTRODUCTION

#### 01 Product Profile



Situable for biosafety, laboratories, hospitals, airp orts,airplane,hotels,KTV,scientific research institutes,dust-free workshops,schools,food enterprises and other places nees to disinfection with regular elimination?

High power disinfection High power disinfection, strong damage to the DNA, RNA of bacteria, disinfection for 90 sqm space could be done in 10 minutes by ultraviolet technology, the disinfection efficiency can be 99.99%.



#### 7\*24 hours Self-management

7\*24 hours Self-management of automatic charging and disinfection work 24hours.no need manual aside for disinfection and charging

#### High precision navigation

VSLAM and Laser SLAM are flexibly matched and stable, the width of the machine is only 38cm, high precision autonomous obstacle avoidance and navigation ability, and it is easy to carry out antonomous disinfection task in many complex scenarios





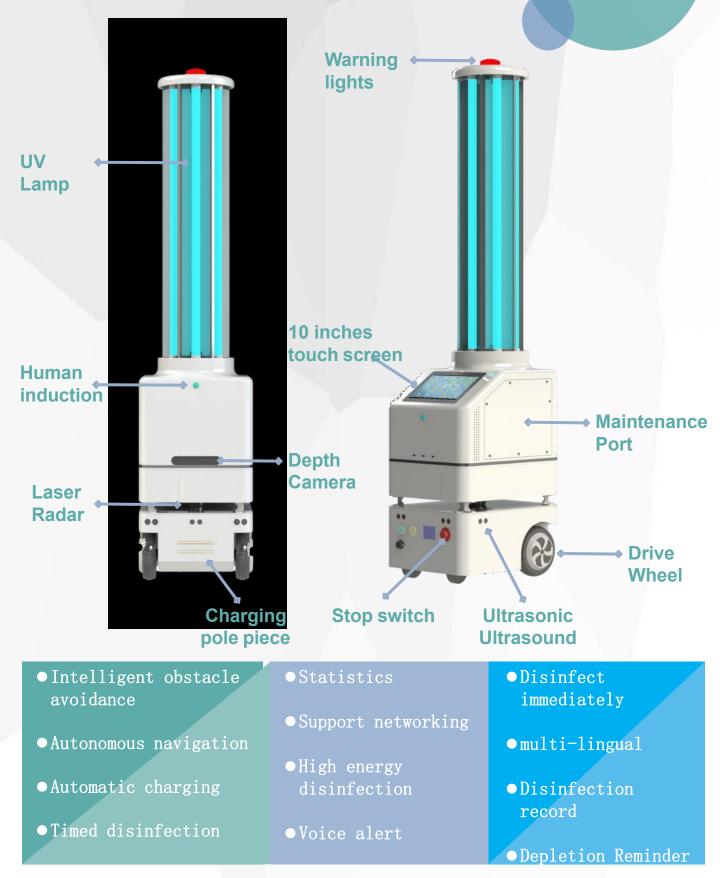
02 Product Details

## **02 Product Details** PRODUCT DETAILED INFORMATION

High-intensity fixed-point disinfection not only has a wide range, but also can effectively and throughly eliminate bacteria

### MAIN FUCTION

02 Product Details



## FEATURES

360

#### 02 Product Details

#### 360-degree coverage and disinfection

The robot is equipped with ultraviolet light tubes, and 360degree coverage and disinfection. Has a good sterilization effect.

#### Large area mapping

It supports a mapping scene up to 8000 square meters, regardless of the size of the scene can easily cover the disinfection work.

#### Autonomous charging system

The robot has an autonomous charging function, which can ensure sufficient power at any time to ensure completion of the disinfection task

#### $\mathcal{N})$ High power disinfection

The ultraviolet lamp tube covers all directions, the cumulative ultraviolet radiation intensity is 600uw/cm2, and the coverage radius is 6-8 meters

#### → Autonomous moving obstacle avoidance

The disinfection robot has autonomous navigation technology and autonomous movement, can identify objects in the environment, and achieve autonomous obstacle avoidance.

## FEATURES

#### 02 Product Details

## Quantitative management of disinfection process

The robot operates intelligently throughout the whole process, and the man-machine is separated to ensure the safety of personnel.

#### ) Scheduled disinfection tasks

Users can schedule disinfection tasks to achieve regular cycles without the need for manpower to share more management and disinfection tasks.

#### Immediate disinfection task

Under special circumstances, the user can operate the UV disinfection robot to perform immediate disinfection tasks.

#### Human body induction countdown protection mechanism

During the start of the disinfection task, preparations for the countdown will be carried out, and the disinfection work will be carried out only after the countdown is completed when no one is in the sensing environment.

## Human body induction disinfectionprotection mechanism

During the disinfection process, if a person is detected, the disinfection work will be stopped immediately and the countdown alarm mechanism will be entered

## FEATURES

#### 02 Product Details

#### Disinfection record

The user can view the disinfection record on the robot, so that the user can know the working condition of the robot and easily manage the disinfection work.

#### Disinfection statistics

The statistics of disinfection data show the cumulative duration of disinfection, the number of times of disinfection, the disinfection data of ultraviolet light tubes, etc., so that users can know the status of the disinfection robot.

## Optional disinfection path

Support custom selection of disinfection points, providing users with more convenient disinfection options.

#### $\mathbf{4}\widehat{\widehat{\mathbf{G}}}$ Support 4G network update

The disinfection robot supports the insertion of a SIM card to connect to the Internet, and in addition to synchronously updating data and disinfection records, it can also achieve network updates such as software and

### **Over All Content** Voice alert

During the execution of the disinfection task, for on-site safety considerations, a voice warning will be issued to inform the user of the current situation of the robot.

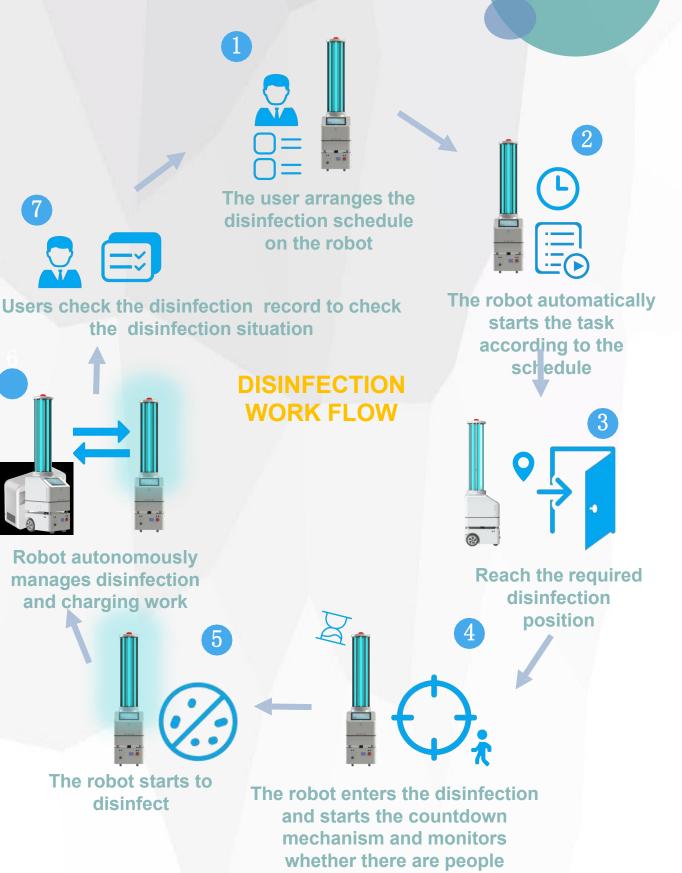
03 Disinfection Work Flow

## 03 DISINFECTION WORK FLOW

Smart interaction with simple operation can truly achieve efficiency

## WORK FLOW

#### 03 Disinfection Work Flow





## 04 PRODUCT SEPC.

## **PRODUCT SPEC**

#### 04 Product Spec.

#### **Overall size**

460 X 380 X 1722 mm

#### **Upper system parameters**

Component		specification
CPU	RK3288, 32-bit, quad-core ARM-A17, 1.8GHz	
GPU	Mali-T764	
DDR	DDR 2GB	
Flash	EMMC 8G	
Android	Android 7.1.2	
Display touch screen	Display screen	LED screen, TFT-LCD
	Size	10.1 inch, 16:10
	Resolution	1920*1200
	brightness	≥250cd/m
	Contrast	≥ 800:1
	Viewing angle	178°
	Touch technology	Capacitive touch screen
	Response time	<5ms
	Touch points	10-point touch
	Surface hardness	Tempered Morse Class 6
		Explosion-proof Glass
WiFi	802.11b/g/n	
Bluetooth	4.0	
RTC Real Time	Support	
Clock		
speaker	3W	
USB interface	USB、OTG	

#### **Sterilization parameters**

Component	specification
Ultraviolet radiation Range	360°
Number of UV lamps	6 tubes
UV power	330W
Irradiance at 1 meter	600uW/cm <sup>2</sup>
Sterilization speed	90sqm/10minutes
Single point sterilization radius	6-10ms

**PRODUCT SPEC** 

#### 04 Product Spec.

#### **Control system parameters**

Component	specification	
Lidar	270°, 10m	
Accelerometer	Support	
Ultrasound	7 Groups	
Depth camera	effective distance 6m	
Human body induction	Front and back, cone angle 140°	
Drive way	2 front wheel drive + 2 rear guide wheels	
Maximum span width	3cm	
Maximum walking speed	1.2m/s	
Navigation walking speed	0.6m/s	
No-load braking distance	28cm	
positioning accuracy	±5cm	
Maximum mechanical	15h	
working time		
Maximum electronic	2h	
working time		
Type of battery	lithium battery	
Battery capacity	45Ah	
Charging method	automatic / manual	
Charging time	adapter: 2h (10%-80%)	
	Charging pile: 2.5h (10%-80%)	
Power connector	29.4V	

#### **Operation requirements**

Component	specification
Operating	-10°C~45°C
temperature	
Relative humidity	≤80RH
Transportation	-20°C~70°C
storage temperature	
Transportation	≤90RH, No condensation
storage humidity	



# HIGH TECH

STABLE

EFFICIENT





#### High power disinfection Can achieve 99.99% killing effect against multi-drug resistant bacteria



# THEONES!