

mi ROBOTS

www.mi-robots.com

ROBOTS THAT WE WANT



BOX SPRAY **Disinfection Robot**

Intelligent Smart Indorr Spray Disinfection Robot



Box Spray Robot is a disinfection robot committed to the intelligent disinfection and epidemic prevention of indoor spaces with high population density and strong mobility. By using its SLAM patented positioning and navigation solution, combined with high-performance atomization module, Box Spray Robot can achieve 6 log-level of disinfection effect, which strongly improves the safety of environmental sanitation

PRODUCT INTRODUCTION

All-aluminum frame

Aviation-grade aluminum alloy, stable structure

3D obstacle avoidance

2* Intel high quality RGBD vision sensors ensure safety of obstacle avoidance

Lidar

New generation radar, efficient SLAM mapping



Visual positioning

The new visual solution, precise positioning

Disinfection module

Atomization rate : 2000mL/h Capacity: 23.8L
Dry mist particle: 5 μ m~15 μ m

New suspension

Easily dealing with various bumps on the road, stable movement

USAGE SCENARIOS



Restaurant



Hotel



Nursing home



Office



Karaoke



Hospital



Shopping Mall



Internet Bar

Product Features

Powerful sterilization

600m²

The robot can completely eliminate harmful indoor microorganisms of 600m² in one time



5μm ~ 15μm

Ultrasonic atomization technology is used to quickly atomize the disinfectant to form 5μm ~ 15μm dry mist particle diffusion

2000 mL/h

High-performance disinfectant atomization module with 2000mL/h ultra-high atomization rate to quickly achieve indoor air disinfection

23.8 L

Super-large capacity for 10 hours of use without refilling the disinfectant

New intelligent disinfection planning

The disinfection requirements are intelligently analyzed according to the usage scenarios, the disinfection rout and duration are independently planned to fully cover the environmental space

Voice patrol for early warning

With real-time voice broadcast, transparent epidemic prevention and disinfection process, rolling playback of anti-epidemic knowledge, we can make the crowd feel at ease with the robot and rest assured of disinfection



3D obstacle avoidance-Ensure safety

- 2* INTEL® REALSENSE™ RGBD sensors enable robot to detect obstacles precisely
- Stop immediately when confronting obstacles

Minimum height of object detection is **20cm**

Obstacle detection frequency up to **5400 times per minute**

Front detection angle up to **192.64°**

Front obstacle detection range exceeds **10m**



Product Specification

Robot specifications

Machine size	516×500×1288 (MM)
Machine weight	61kg(full load) 37kg(no load)
Path Selection	Independent planning of optimal path selection based on positioning and obstacle avoidance information
Running speed	0.5-1.2m/s adjustable
Stop position accuracy	±100 mm for position accuracy, ±2° for angular accuracy
E-Stop button	Available
Indicators	On both sides of the chassis

Disinfection module

Noise	<36db
Rated power	110W(maximum, adjustable)
Module size	310mm×250mm×620mm
Atomization rate	2000mL/h(maximum, adjustable)
Dry mist particle	5μm~15μm
Disinfectant shortage protection	Power-off protection upon shortage of disinfectant
Capacity	23.8L