



# Shenzhen Clot Robotics ME1252C001F7 Spray Robot User Manual

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## SHENZHEN

Specification of Spray Robot



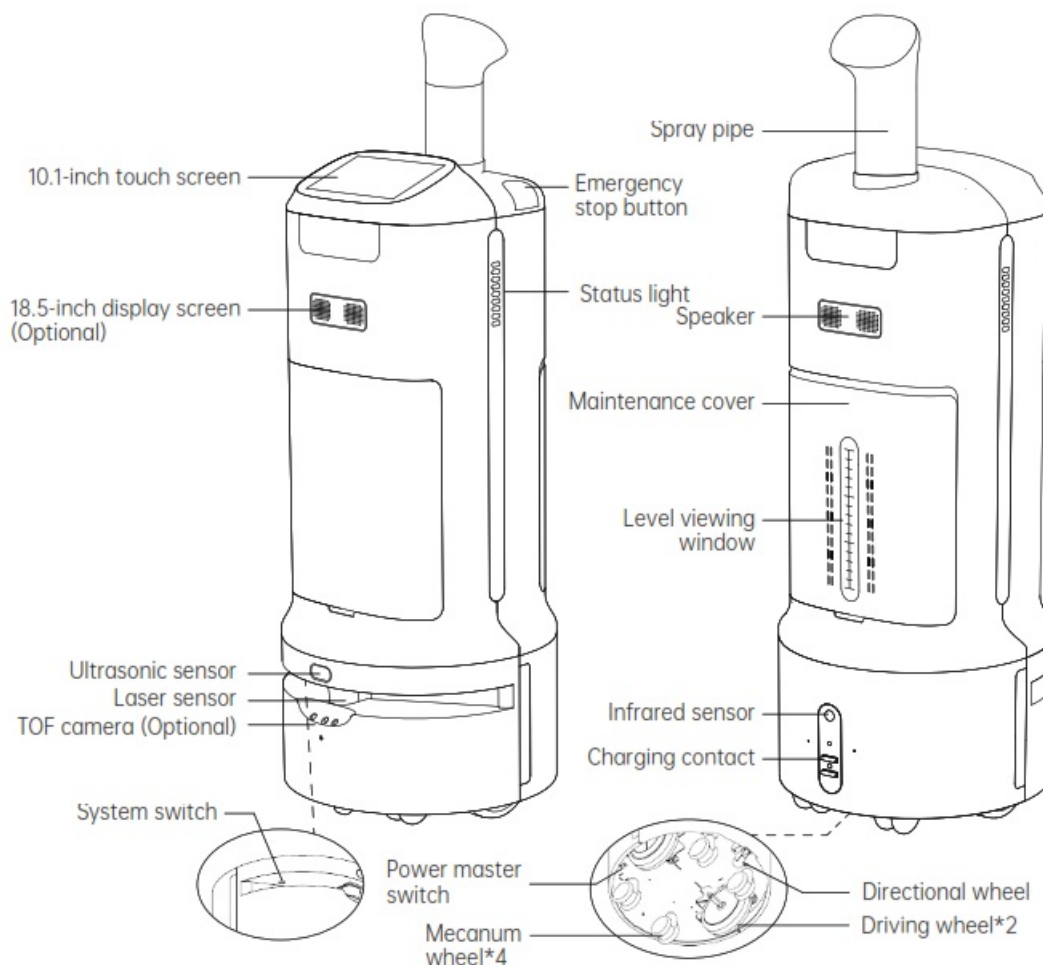
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## Product Overview

The spray robot performs smart sterilization of spaces with the combined use of SLAM and traditional sterilization technologies. Using ultrasonic atomization technology, it atomizes disinfectant into micro-sized particles, which disperse in air in the form of aerosol and kill pathogenic microorganisms, thus achieving the purpose of sterilization. The robot can work and get charged automatically. It can also upload information on its running status, operating status and task implementation in real time. Users can locally or remotely assign sterilization tasks so that the robot will fulfill the sterilization tasks actively, efficiently and accurately. The spray sterilization robot, which is widely applied in hospitals, schools, hotels, office buildings, factories and supermarkets, effectively improves sterilization efficiency and guarantees public health security in places where it is used.

## Product Appearance



## Product Parameters

Overall dimension	500mm×500mm×1182mm (excluding spray cylinder)
	500mm×500mm×1430mm (including spray cylinder)
Package dimension	620mm×620mm×1500mm
Net weight	59.5kg
Gross weight	71.5kg

Basic parameters	Operating system	Android 7.1
	Touch screen	10.1-inch; resolution: 1280×800
	CPU	RK3288
	RAM	2GB
	ROM	8GB
	Network	4G/WIFI
	Battery capacity	24V, 20Ah
	Working hours	4h
	Charging time	4.5h
	Standby time	13h
	Speaker	2
	Noise	≤50dB (work normally in case of no broadcast)
Environment	Operating environment	Temperature: 5°C~45°C; humidity: 5% 85%
	Storage environment	Temperature: -10°C~60°C (without liquid residue in chamber and pipe); humidity: 5% 85%
Chassis parameters	Mapped area	≤10000m <sup>2</sup>
	Applicable area	≤1000m <sup>2</sup> (calculated based on 4m floor height)
	Movement speed	0~0.8m/s (user-defined)
	Width of driving passage	≥800mm
	Sensor	Single-line laser, RGBD TOF camera (optional), ultra-sonic wave, 6-axis gyroscope
	Width of surmountable trench	≤40mm
	Climbability	≤5°
	Height of surmountable obstacle	≤10mm
	Minimum turning radius	0
	Maximum rotational speed	60°/s
	Positioning accuracy	±5cm

	Wheels		2 differential wheels + 4 mecanum wheels + 1 auxiliary directional wheel
Parameters of charging piles	Charging mode		Automatic recharging by contact
	Input		AC110-240V
	Output		29.4V, 7A
Sterilization parameters	Sterilization method		Ultrasonic atomization
	Atomization parameters	Atomizer specification	4-head
		Atomization efficiency	1.5h/L
		Size of atomized particles	<10um
		Disinfectant	Sodium hypochlorite solution (concentration≤200ppm)
		Tank volume	10L

## Product Functions

Sterilization	Sterilization method	Using ultrasonic atomization technology, the robot atomizes disinfectant into micro-sized particles, which disperse in air in the form of aerosol and kill pathogenic microorganisms, thus achieving the purpose of sterilization
Automatic charging	Automatic recharge for low battery	When its electric quantity is below the preset value, the robot will return to the charging pile for charging
	Return to a charging pile at free time	The robot will automatically return to the charging pile for charging at the end of a task or at free time
Operation	User-defined task	The robot can define path, time and location for a sterilization task by software
Navigation and obstacle avoidance	Fully automatic navigation	The robot can navigate according to location, time, path and automatically planned route for a task
	Automatic obstacle avoidance	In executing a task, the robot can automatically move across obstacles it senses

## FCC compliance statement

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.

**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 to 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.

**Important:** Changes or modifications to this product not authorized by Shenzhen CIOT Robotics Co., Ltd could void the electromagnetic compatibility (EMC) and wireless compliance and negate your authority to operate the product.

This product has demonstrated EMC compliance under conditions that included the use of compliant peripheral devices and shielded cables between system components. It is important that you use compliant peripheral devices and shielded cables between system components to reduce the possibility of causing interference to radios, televisions, and other electronic devices.

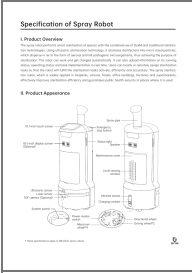
**RF Exposure Statement:**

To maintain compliance with FCC’s RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body.

Use only the supplied antenna.  
FCC ID: 2A5WH-ME1252C001F7



**Documents / Resources**

	<p><a href="#">Shenzhen Clot Robotics ME1252C001F7 Spray Robot</a> [pdf] User Manual ME1252C001F7, 2A5WH-ME1252C001F7, 2A5WHME1252C001F7, ME1252C001F7 Spray Robot, ME1252C001F7, Spray Robot, Robot</p>
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