ATEAGO Teamwork & Trust

# ATEAGO UVC Disinfection ROBOT

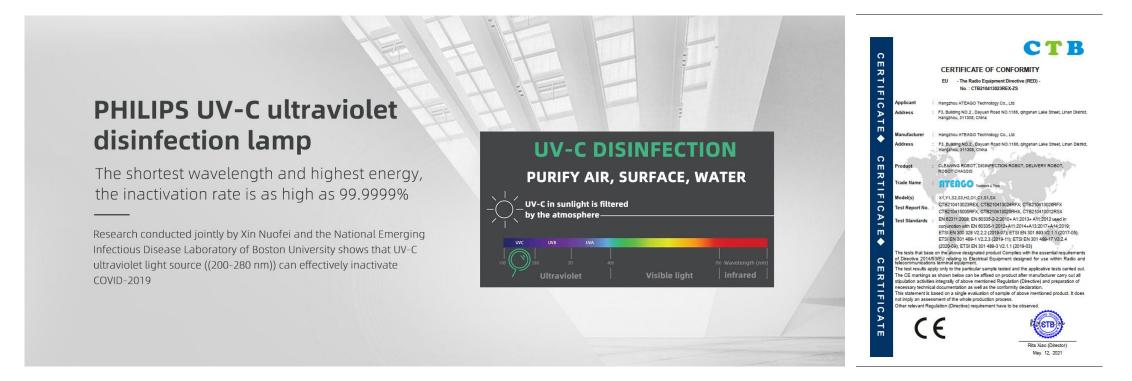


<u>CE</u> RoHS



## 1.2 Product description

The ATEAGO X1 disinfection robot uses PHILIPS UV-C ultraviolet light source, and the inactivation rate of COVID-2019 is as high as 99.9999%. It has high efficiency, broad spectrum, thoroughness, no drug resistance and no secondary pollution. And other significant advantages, it is an efficient and environmentally friendly disinfection product.



EU CE certification



## 1.3 PHILIPS UVC TUBE

8000+ hours long life 6m radius disinfection range 180W high power



#### Long service life

8000+ hours long service life



#### 6m radius kill range

Disinfection radius is up to 6 meters, disinfection is more thorough



#### 180W high power

6 PHILIPS UV tubes Lamp power 30W/pcs



#### **Convenient maintenance**

Snap-in design, more convenient lamp installation



## 1.4 Product testing





## 1.5 ROHS Test Report

L	RO	HS TEST REPORT	R
Rep	ort Reference No:	ZKT-2020122714R	
Date	of land	Jan. 05, 2021	
Total	I number of pages.	13	
Test	ing Laboratory	Sherzhen ZKT Technology Co., Ltd	
		1/F, No. 101, Building B, No. 6, Tangwei Communit Avenue, Fuhai Street, Bao'an Diatrict, Sheruhen, C	
Appl	icanfa name:	Hangzhou ATEAGO Technology Co., Ltd	
Add		F3, Building NO.2 , Dayuan Road NO.1188, Gings Street, Linan Diablet, Hangshou, 311305, China	han Lake
Man	ufacture's name	Hangshou ATEAGO Technology Co., Ltd	
Ad0		F3, Building NO.2 , Dayuan Road NO.1188, Oingr Street, Linan District, Hangzhou, 311305, China	han Lake
Test	Requesteds		Conclusio
(1)	Annex (EU)2017/2102 —Lead, Cadmium, Nercury, Hexa	x II amending Annex (EU)2015/863 and amending valent Chromium, PBBs and PBDEs Content (P), Benzybutyl phthalate(BBP), Dibutyl phthalate (Content	PASS
Test	Report Form No	-	
Test	Report Form(s) Originator:	ZKT Testing	
Maa	ter TRF:	Date: 2017-06	
	test report is specially limited be duplicated without prior wr	to the above client company and product mo itten consent of ZKT Test.	del only. It n
-	item description	Spray disinfection robot	
Test			
	le Mark	NIA	







## 2.1 Product Features





#### TIMING DISINFECTION TASKS

Customize the disinfection time and execute it automatically Disinfection task, convenient and quick





#### REMOTE AUTOMATIC RETURN INTELLIGENT CONTROL TO CHARGING

Build navigation maps remotely and view machine operating data remotely Low battery automatically returns to charging, No need for human intervention

**AUTONOMOUS** 

Lidar sensor, automatic

and safe operation

sensing Obstacles, stable

**OBSTACLE AVOIDANCE** 



#### ULTRAVIOLET (SHORT WAVE)

254nm wavelength ultraviolet light technology Sterilization rate is as high as 99.9999%



#### PRECISE NAVIGATION AND POSITIONING

Obtain environmental information through lidar sensors for positioning and navigation.



## 2.2 Product Features



- $\cdot$  Indoor autonomous mobile multi-point disinfection
- · 40,000 square meters large area laser mapping to meet the use of large scenes
- · Independent cloud service platform, remote navigation deployment, saving time and effort

· Infrared human body sensor, automatically turn off/on the light, avoiding obstacles and ultraviolet rays hurting the skin

- $\cdot$  Timed disinfection function, automatic execution of disinfection tasks
- · Laser SLAM and V-SLAM fusion, accurate map construction and positioning
- · Automatic return to charging, no-man operation
- Second-level intelligent obstacle avoidance, indoor autonomous route planning
   6 tubes of 90cm PHILIPS UV-C UV tubes
- · 8000 hours long service life
- Shortwave 254nm sterilization lamp ultraviolet radiation, efficient disinfection and sterilization
- It has high efficiency, broad spectrum, thoroughness, no drug resistance and no secondary pollution, etc.
- · UV disinfection conforms to [National Standard] GB 19258-2012 UV disinfection lamp

### 2.3 Cloud service platform

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	ma102x100417-002-002	● 按下	<ul> <li>正常</li> </ul>	100	• E#	#10	2020-07-01 08:48:36	展门-黎盾-0417	连接
	reemanised-01	<ul> <li>3#42</li> </ul>	• E%	0	• 5%	中国深圳市	2020-07-01 08:48:36		连接
	Nov#101-200813-001-001	● 按下	• 正常	100	• 异常	中国潍坊市	2020-07-01 08:48:36		建設
	Nov1101-200813-001-002	• 弹起	<ul> <li>正常</li> </ul>	100	● 正常	中国潍坊市	2020-07-01 08:48:36		连接

#### **Rapid deployment, time-saving and efficient**

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Through the cloud service platform, the robot is connected and controlled remotely, and the navigation map is constructed visually throughout the process, reducing the response time of operation and maintenance services, allowing the robot to be put into use in a shorter time, saving time and cost.

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## 2.4 Remote deployment, Time-saving and efficient



# Intelligent UV disinfection lamp is efficient, safe and pollution-free

- Irradiated by 6 high-power UV lamps, effectively killing germs and viruses on the surface of the environment
- Reach over 99.9999%, effectively reducing the chance of cross infection
  Remote intelligent control, self-defined disinfection time, automaticly start disinfection task, no need to repeat settings
- Simple installation and deployment, autonomous disinfection path planning, real-time monitoring of operating data
- Infrared human body sensor, 360° omni-directional intelligent sensor, automatically turn off the light while sensing the human body, avoiding ultraviolet rays hurting the skin and other problems



Infrared human body induction (Optional) <u>\_</u>

Intelligent Cloud Service Platform





Mobile multi-point disinfection



## 2.5 Custom disinfection method

- Indoor autonomous navigation
- Customized calibration disinfection position
- Set the stay time of the target point
- Automatic return to charging



Several disinfection target points can be calibrated according to actual needs, and the robot will automatically perform disinfection tasks according to the calibration sequence

Autonomously mobile multi-point disinfection, Philips UVC ultraviolet tube, 180W high power, independent planning of disinfection path, 6meter radiation disinfection range, disinfection more thorough.

The infrared sensor automatically senses the human body and realizes the intelligent disinfection mode of [lights off when people come, and lights on when people leave], effectively preventing ultraviolet rays from harming the skin.

Timed disinfection: According to actual needs, you can customize the disinfection duration and disinfection week plan, and automatically perform disinfection tasks.

Automaticly return to charging: When the power is lower than the minimum value, it will automatically return to the charging pile for charging without manual operation, which is convenient and quick.

## 2.6 Intelligent obstacle avoidance

#### SLAM navigation algorithm + laser navigation + intelligent obstacle avoidance

Laser SLAM and V-SLAM multi-sensor fusion technology, accurate indoor navigation and positioning, flexible obstacle avoidance

Lidar sensing technology can detect objects within 20 meters around, 270° scanning angle, wide detection range, high accuracy

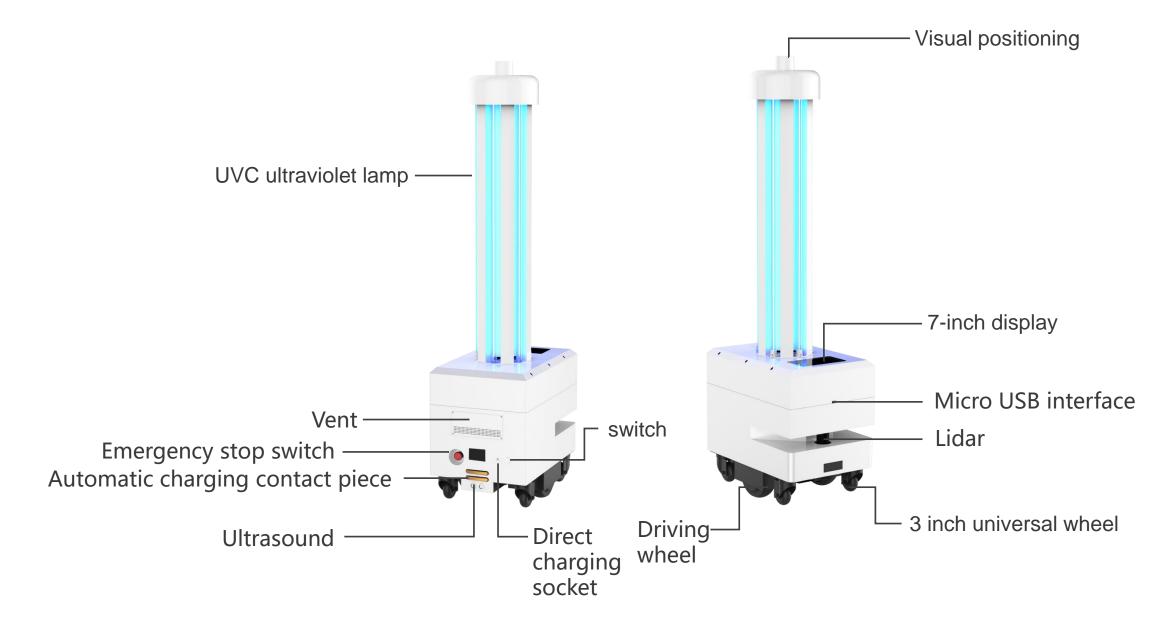
Accurately detect obstacles and automatically bypass, which can realize pedestrian avoidance under unmanned driving





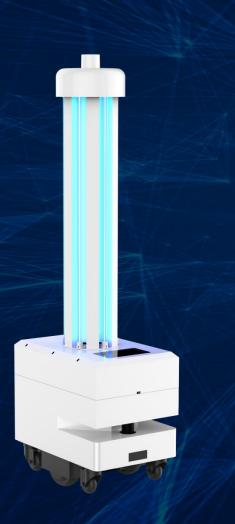


## 3.1 Product structure



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## 3.2 Product parameter



Product name	Х1-А	Х1-В	Х1-С	Y1
Internal number	HBOT11U	HBOT12U	HBOT13U	WBOT11U
Lamp power (single tube)	30W	36W	30W	30W
Number of tubes	6	8	6	6
Tube length	90cm	120cm	90cm	90cm
Battery Type	20800mAh/37V	20800mAh/37V	20800mAh/37V	20800mAh/37V
Battery life	2.5~3h	1.5~2h	2.5~3h	2.5~3h
Charging time	3~4h	3~4h	3~4h	3~4h
UV irradiation distance	6m	6m	6m	6m
Infrared human body induction	Optional	Optional	Optional	Optional
Disinfection method	Single disinfection, cycle disinfection			
Display size	7 inches	7 inches	7 inches	7 inches
Language mode	Chinese、English	Chinese、English	Chinese、English	Chinese、English
Laser Ranging	20m	20m	20m	20m
product weight	50KG	49KG	49KG	50KG
Product Size (L×W×H mm)	540×360×1550	540×360×1850	540×360×1500	450×450×1462

## 3.3 Applicable scene



# Suitable for disinfection of large and medium-sized indoor public places

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- Subway stations, high-speed rail stations, airports, customs ports
- Hospitals, Banks, Government Halls, Restaurants, Shopping Malls
- Logistics, Warehousing, Factory, Workshop
- School, Library
- Convention and Exhibition Center, Auto 4S Shop
- Nursing homes, welfare homes

Autonomous mobile multi-point disinfection, custom disinfection target point and disinfection time, automatic execution of disinfection tasks. You can choose single disinfection or cyclic disinfection, and customize the weekly plan disinfection task.



## 3.4 Case Show





# Thank you for watching

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http://www.ateago.com/