

ROBOTIC SOLUTIONS FOR DISINFECTION AND HYGIENE Q&A

Sterilizing robot - air sterilization

Q1: What is an air sterilizing robot and what does it do?

A: These are machines designed for healthcare facilities that can autonomously operate UV disinfection, dry spraying of disinfectants such as hydrogen peroxide/sodium hypochlorite and air filtration systems.

Q2: What are the advantages and disadvantages of disinfection robots compared to manual disinfection work?

A: Disadvantages:

- Inconsistent level of disinfection: easy to miss certain corners;
- Occupational hazards: presence of even a low concentration of peroxyacetic acid exposes personnel to carcinogens at a rate over 10 years (53% over-exposure) The carcinogenic rate of sodium hypochlorite was 44%. Formaldehyde disinfectant carcinogenic rate 62%; Easy to have residues after disinfection;
- Labor costs are high.

Advantages: disinfection can be thorough, 360-degree irradiation, no dead angles. Man-machine separation, automatic sterilization mode, self-sterilization, no harm to human body. After disinfection, personnel can enter the space after detecting/testing for chemical presence, minimizing risks of injuries.

Q3: How successful has the use of disinfection robots been? Are there any good examples of its use?

A: This disinfection robot is specially

developed for the medical industry, so its disinfection capabilities have passed the relevant tests for medical institution. At present, this robot has been used in more than 60 first-class hospitals in China. In Wuhan, the epicenter of the outbreak, 10 of these robots were distributed to isolation wards, outpatient clinics, operating rooms and other areas of designated hospitals such as union medical college, Zhongnan Hospital, Central Hospital and more.

Q4: What is the delivery time, price and business model?

A: Delivery date is 15 days after full payment of order.

Price: TBA.

Business model: Branches are the main body for purchasing robots, which can be rented and/or sold.

Delivery robot

Q1: What is the delivery robot and why should it be used?

A: The delivery robot is an intelligent delivery service machine that uses autonomous navigation and movement technology to achieve services indoor with no human-to-human contact. Reducing human contact reduces the risk of virus transmission. It can work with smart elevator

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systems to reduce the frequency of elevator rides and reduce the risk of cross-infection. Its main responsibilities are delivering internal office documents and materials, external express delivery of packages and food distribution in and from facility dining spaces.

Q2: What is the delivery cycle and business model?

A: Delivery 10 days after full payment of order. Branches are the main body for the purchase of machinery, external sales or leasing.

Q3: Are there any good examples of this robot's use?

A: Yes. They have been implemented at Kerry City (Shanghai); the Shanghai Caohejing Hi-Tech Development Zone Corporation's buildings, the Tongtai building (Beijing financial street)

Large-screen interactive robot

Q1: What is a large-screen interactive robot and what does it do?

A: It is a robot that conducts autonomous registration and facial recognition at the front desk. It can also guide visitors through the buildings gate and initiate a no-touch elevator ride to the appropriate floor. It also has an integrated infrared imaging system which can measure body temperatures and alert the company about abnormal temperatures.

Q2: What are the advantages of the large-screen interactive robot?

A: It reduces contact between visitors, staff

and objects. It also reduces time visitors may spend waiting for registration personnel at the front desk or need for escort into building;

Guiding visitors through the gate and calling the elevator reduces need for close contact with security or surfaces, and is set to minimize the number of people in each elevator, reducing risk of cross-contamination.

Infrared imaging system can prevent infected people from entering the premises of the building.

Robot can also be used for greeting, information sharing and advertising. It can operate in multiple languages, reducing language issues and the need for bilingual staff.

Q3: Are there any good examples of this robot's use?

A: It can and has been used in exhibition halls, museums, art galleries and more.

Q4: What is the delivery cycle and business model?

A: It will be available at the end of February 2020. Generally, delivery will be 20 days after payment and order. Branches are the main body for the purchase of machinery, external sales or leasing.