Puductor 2
Disinfection Robot
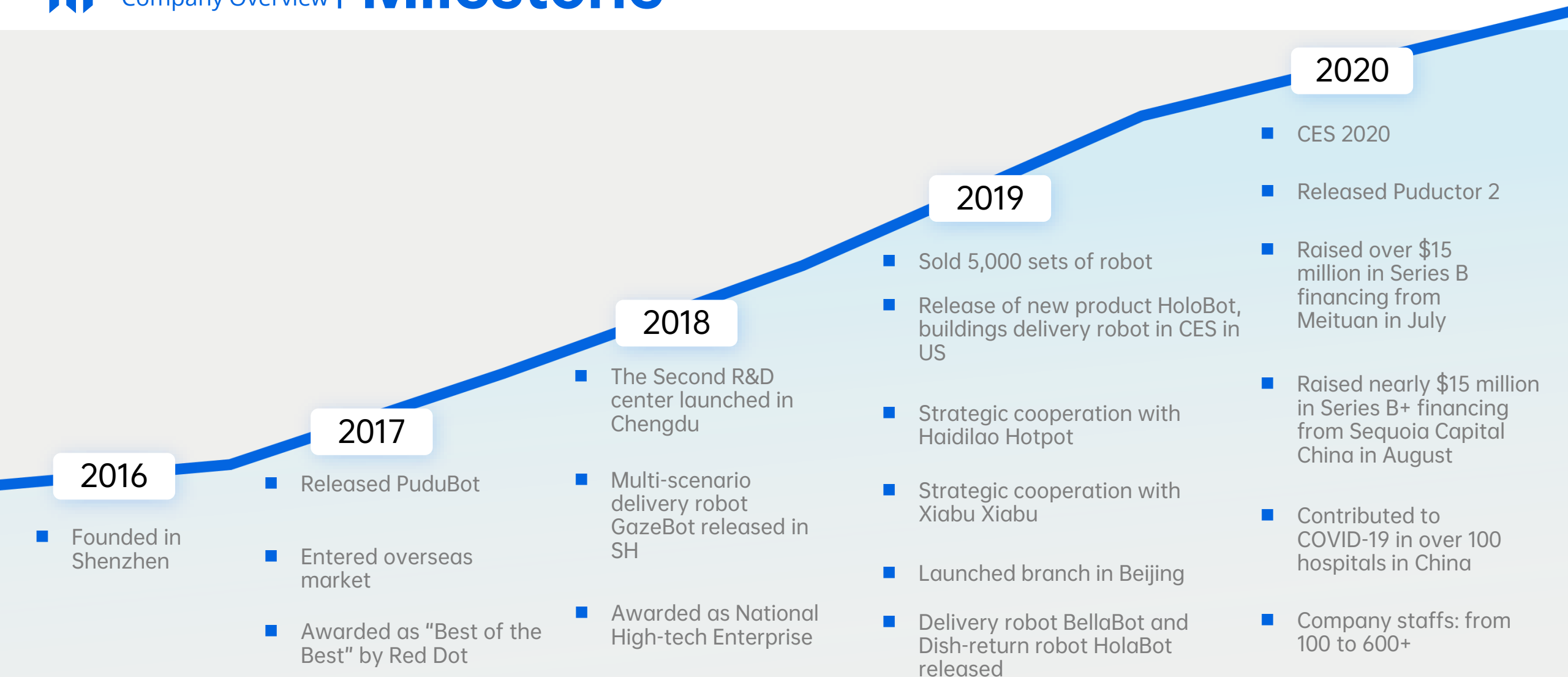
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About Puductor2

CONTENT

Shenzhen Pudu Technology Co.,Ltd.

- Established in 2016
- National high-tech enterprise
- Headquarter in Shenzhen
- Over 60 service centers

- Delivery and disinfection robots
- Products sold in over 50 countries
- Widely be used in restaurant, hotel, office building, hospital, Internet cafe and Karaoke
- Brand Partners: Haidilao Hotpot, JD, Woowa Brothers, HomePlus, Bytedance, LG and Sheraton hotel

2016
- Founded in Shenzhen

2017
- Released PuduBot
- Entered overseas market
- Awarded as "Best of the Best" by Red Dot

2018
- The Second R&D center launched in Chengdu
- Multi-scenario delivery robot GazeBot released in SH
- Awarded as National High-tech Enterprise

2019
- Sold 5,000 sets of robot
- Release of new product HoloBot, buildings delivery robot in CES in US
- Strategic cooperation with Haidilao Hotpot
- Strategic cooperation with Xiabu Xiabu
- Launched branch in Beijing
- Delivery robot BellaBot and Dish-return robot HolaBot released

2020
- CES 2020
- Released Puductor 2
- Raised over $15 million in Series B financing from Meituan in July
- Raised nearly $15 million in Series B+ financing from Sequoia Capital China in August
- Contributed to COVID-19 in over 100 hospitals in China
- Company staffs: from 100 to 600+

**Pudu Robotics
Company Overview**

- Products sold in 50+ countries
- Service centers in 60+ cities
- 15000+ units sold in 2020

Contactless operation, safety means everything

COVID-19 has changed our way of living. Contactless operations will be crucial for the foreseeable future. Pudu Robotics provides multiple solutions to battle the negative impact from the pandemic. With true noncontact functions, Puductor 2 minimizes the risk of cross infection and improves sanitary condition for indoor environments.

Ultrasonic Dry Mist Disinfection

- Dry mist disinfection, highly effective against the COVID-19.

- 4 spray nozzles for an atomization rate of up to 2L/h, capable of holding up to 15L of disinfectant solution.

- 10µm dry disinfectant particles ensuring full contact with microorganisms.

Adjustable Atomization Rate

- 4 mist output

- Lower rate for dry-mist concentration retention in a semi-open scenario. Higher rate for faster targeted dry-mist concentration.
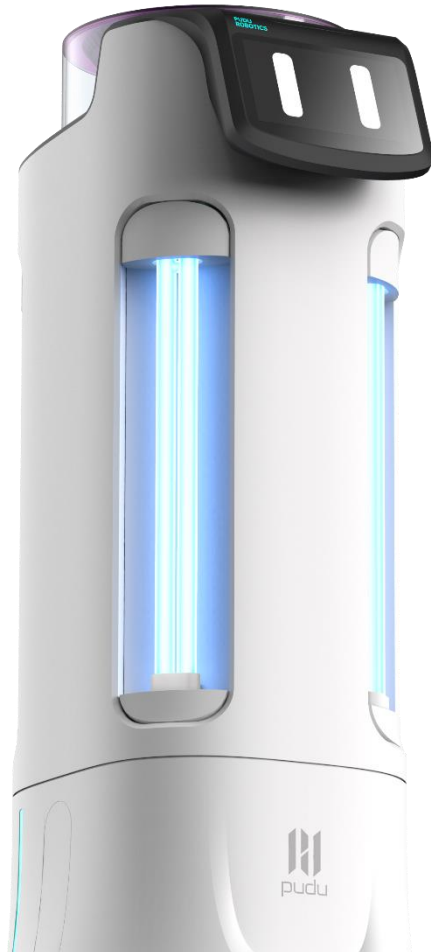
Ultraviolet C Disinfection

■ 360° sterilization.

■ 4 x 36w ozone-free UV lamp equipped, achieving an industry leading ultraviolet illumination of 180μW/cm² within 1 meter.

■ The UV-C lamp is highly effective against most types of bacteria and viruses, securing a 99.99% disinfection rate.

Intelligent UV-C Lamp Protector

■ Enclosed cabin with motorized interlocking mechanism, providing protection to the lamp while not operating.

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Power

- The robot is equipped with two batteries. The total battery capacity is 51.2Ah, for a maximum disinfection time of up to 6h, which can support the disinfection of 12-15 rooms (20㎡/room).

Boil-dry Protection and Low-level Warning

- Liquid level safety detector in the ultrasonic chamber, the ultrasonic frequency terminates automatically when the liquid level is lower than the safety level.

- Real-time liquid level protector in the solution tank, reminding user to replenish solution when the liquid level is low.

IoT Management

- Remote Access: remote terminal control of robot operation, task management, and work report printing.

- Automatic Work Report Generation: work reports generated automatically, check disinfection status of target areas.
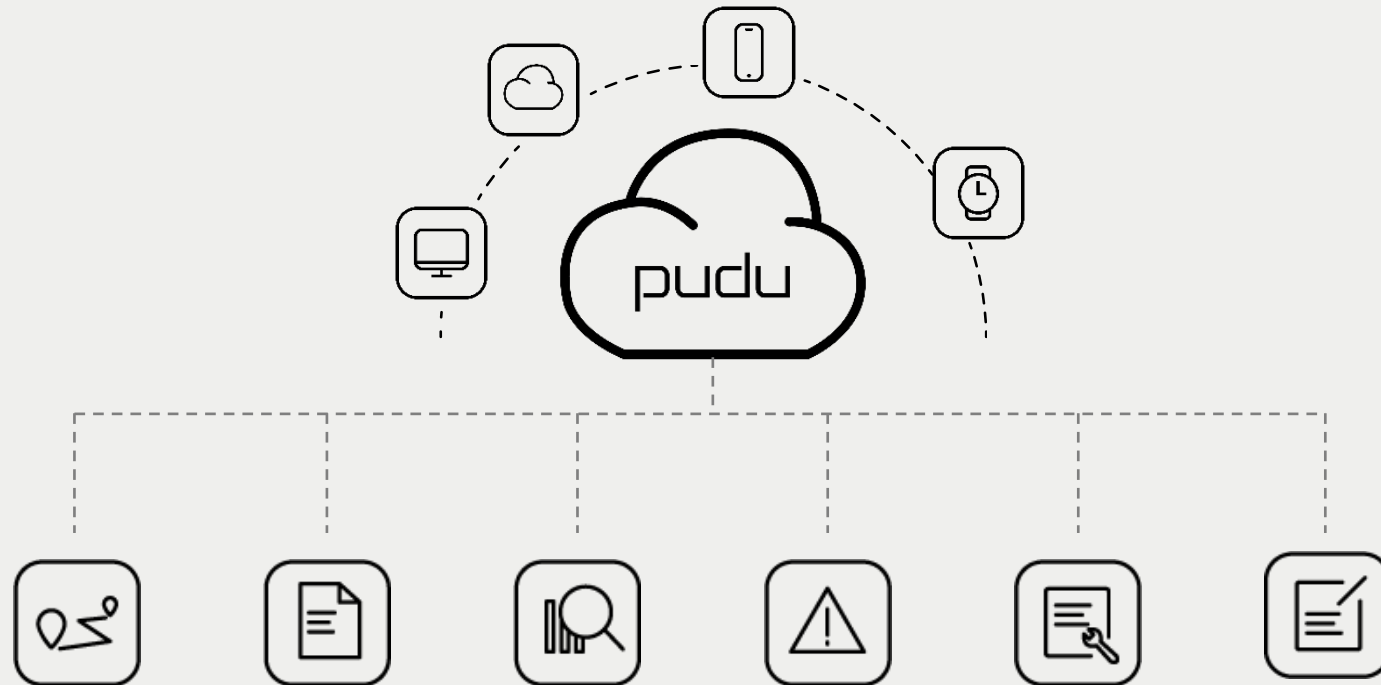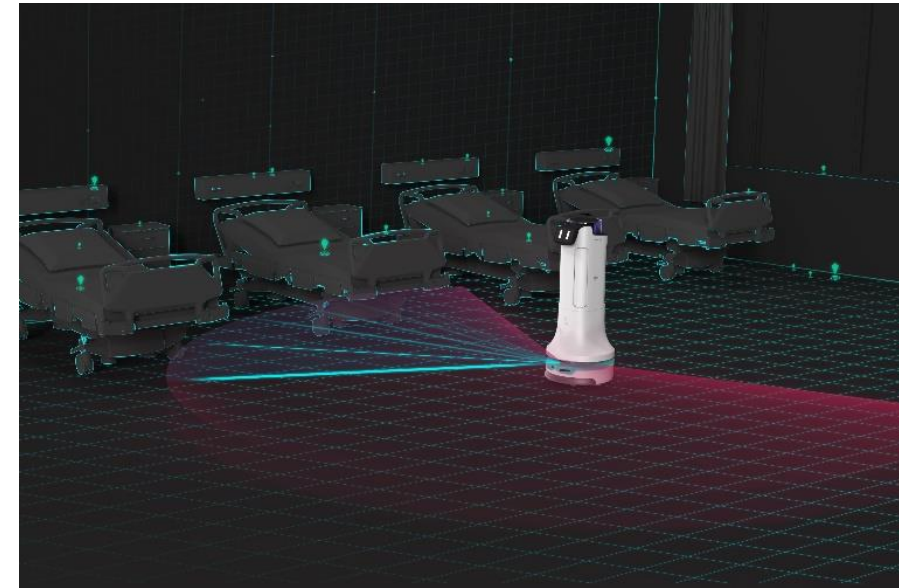
Laser SLAM Self-Driving Solution

- Able to move freely in a 10,000m² space
- Detection range up to 40m
- Real-time positioning error less than 10cm

3D Obstacle Avoidance Technology

- INTEL® REALSENSE™ RGBD camera
- Powerful 3D perception
- Accurately detect obstacles, stopping within a reaction time of 0.5 seconds

Machine Dimension	544x538x1290mm
Machine Weight	60kg
Battery Capacity	51.2Ah
Reservoir Capacity	15L
Irradiation Intensity at one meter distance	180 µW/cm² , UV-C(254nm)
Disinfection Time	Max 6H (Replaceable Battery)
Cruise Speed	0.1-1.2m/s Adjustable
Disinfectant Solution	Hydrogen Peroxide(H2O2) Chlorine Dioxide （ClO₂) Hypochlorous Acid(HClO),etc.
Average Power Output	150W
Working Voltage	24V
Atomization Rate	4 levels(adjustable)
UV-C Lamp Protector	Yes
Solution Inlet& Outlet	Yes
Max Climbing Angle	5°

■ Pudu Robotics independently researches and develops its own robot positioning and navigating technology and disinfection modules. Puductor 2 can be applied in different environments such as hospitals , government halls, schools, and office buildings.
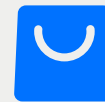
Hospital

School

Hall

Hotel

Internet Bar

Canteen

Shopping Mall

Karaoke

Enhanced patient safety with UV-C and dry mist disinfection

Cross infection in hospitals is a serious topic in the healthcare sector. Millions of patients are exposed to risk of infections during hospitalization each year and thousands of patients lose their lives.

Efficient government operations under COVID-19

Puductor 2 helps protect both government agency workers and citizens from the risk of infection and any other potential bacterial diseases

Safe learning environment and campuses

Protects both young students and college campuses from the risk of cross infections. Creating a healthy and safe environment for learning.

Stay safe during travel

The Puductor 2 can disinfect large areas such as airports and other transportation hubs. Keep travelers safe by having a clean environment during transit.

Safe entertainment environment

Puductor 2 is a reliable disinfection robot. With both UVC and dry mist disinfection modes, it ensures a safe and virus free environment for places like movie theaters and arcades.
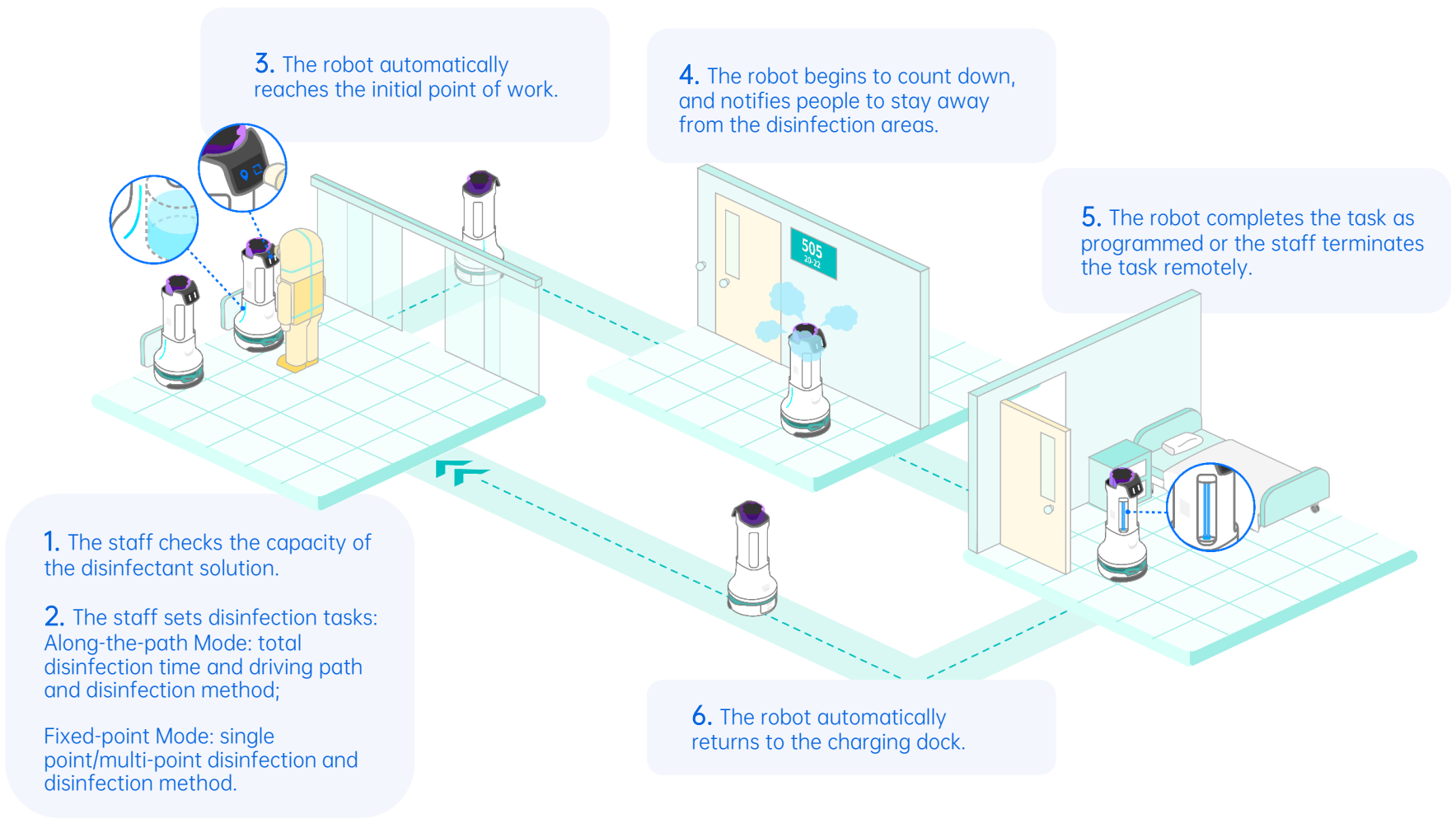
Protect employees and your business

Protect your employees and office perimeters in order to keep business in operation.

3. The robot automatically reaches the initial point of work.

4. The robot begins to count down, and notifies people to stay away from the disinfection areas.

5. The robot completes the task as programmed or the staff terminates the task remotely.

1. The staff checks the capacity of the disinfectant solution.

2. The staff sets disinfection tasks: Along-the-path Mode: total disinfection time and driving path and disinfection method;

Fixed-point Mode: single point/multi-point disinfection and disinfection method.

6. The robot automatically returns to the charging dock.

Workflow-Manual Mode

1. The staff manually pushes the robot to the disinfection point.

2. The staff checks the capacity of the disinfectant solution.

3. The staff sets disinfection tasks (total disinfection time, disinfection method)

4. The robot begins to count down, and notifies people to stay away from the disinfection areas

5. The Puductor 2 finish the task as programmed or the staff terminates the task remotely.

6. The staff manually pushes the robot back to the charging dock.

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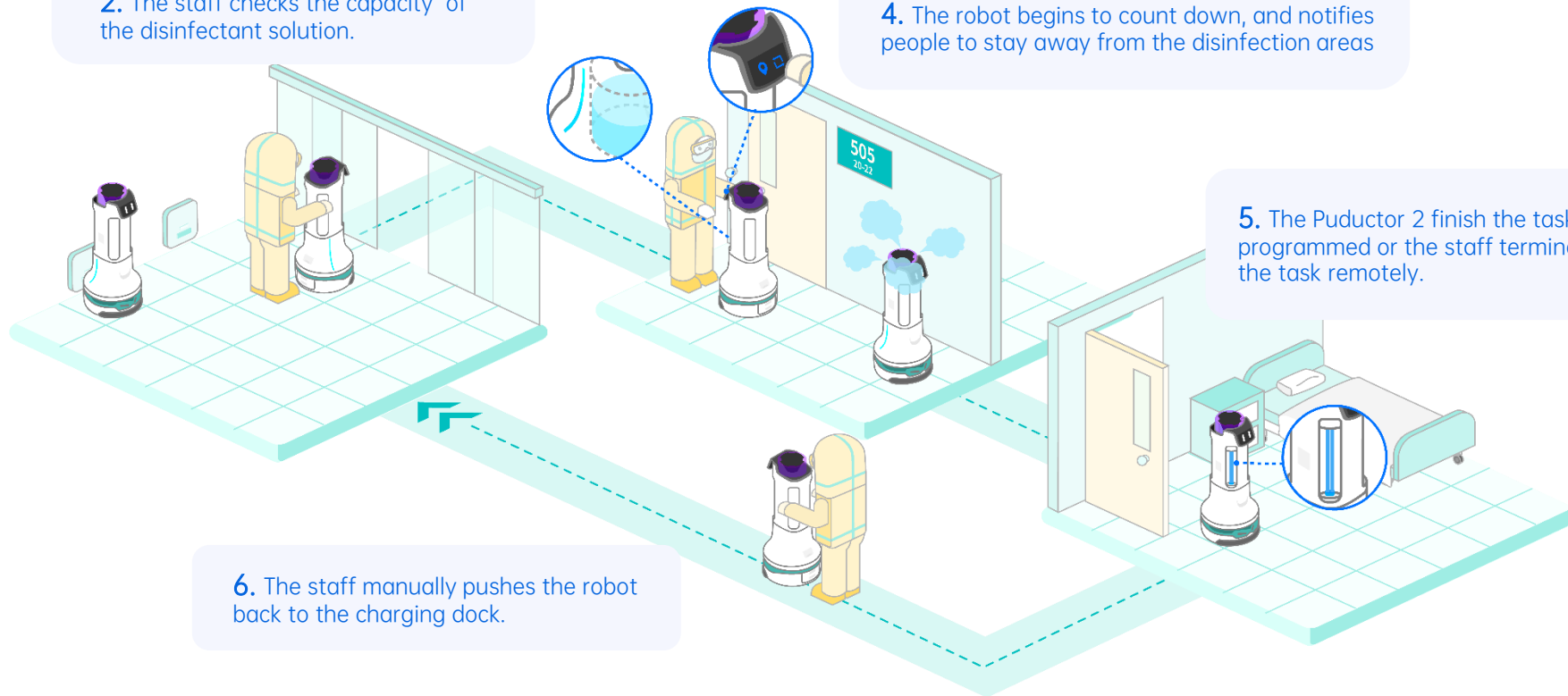
Friendly, Convenient, and Professional

Effective After Sales Service

Remote technical support offered up to 12 hours a day, 7 days a week.
IoT services: Solve over 90% technical issues online

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