

# PUDU ROBOTICS

Global Leading Robotics Company





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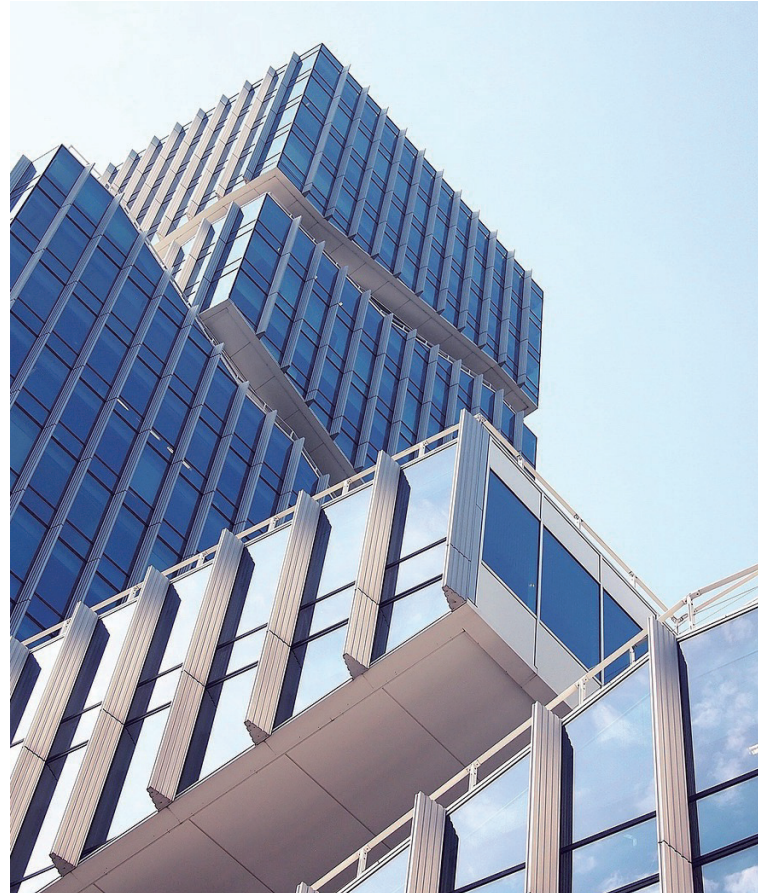
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## 01 Company Profile

Shenzhen-based and founded in 2016, Pudu Robotics is a world-leading tech-focused enterprise dedicated to the design, R&D, production and sales of commercial service robots on a mission to use robots to improve the efficiency of human production and living.

Since its inception, Pudu Robotics has heavily invested in R&D, obtained multiple awards such as Red Dot and applied hundreds of core patents to lead the development of the robotics category and provide high technology products that would appeal to targeted markets. Pudu Robotics has been rapidly growing in recent years to become a "leader" in the global markets with coverage of over 60 countries worldwide. The robots are widely applied in restaurants, hospitals, schools, office buildings, government halls, subway stations, waiting rooms, etc.



# Milestone

2016

**Jan.**  
Shenzhen-based  
Founded in 2016

2017

**Mar.**  
Released First Delivery Product – PuduBot  
**July**  
Won Red Dot Award – The Best of the Best

2018

**June**  
Series A Financing: Raised \$8 Million  
**Nov.**  
Approved as a National High-tech Corporate

2019

**June**  
Global Strategic Cooperation – Haidilao Hotpot  
**Sep.**  
Strategic Cooperation – Xiabu Xiabu  
**Dec.**  
Released Multi-featured Products  
- BellaBot  
- HoloBot

2022

**May**  
Released New Delivery Product - SwiftBot  
**June**  
Released New Cleaning Product - PUDU CC1

2021

**Mar.**  
Sub-branch R&D Center Set-up  
**Mar.**  
Launched New Products  
- KittyBot  
- FlashBot  
**May**  
Series C1 Financing: Raised \$78 Million  
**Sep.**  
Strategic Cooperation - Panasonic  
**Sep.**  
Series C2 Financing: Raised \$77 Million  
**Oct.**  
Won G-mark – Good Design Award

2020

**Jan.**  
Awarded CES Technology Innovation Award  
**Feb.**  
Contributed to Hundreds of Hospitals During COVID-19 Outbreak  
**July**  
Series B Financing: Raised over \$15 Million  
**Aug.**  
Series B+ Financing: Raised \$15 Million  
**Dec.**  
Launched Disinfection Robot – Puductor 2

03 <sup>Team</sup>

# CEO



- Hong Kong University of Science and Technology Master
- Artificial Intelligence and Robotics Expert
- Champion of Robocon China Robot Competition
- Owns 60 Robot Invention Patents



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Team 04

Stay hungry Stay foolish - Steve Jobs

95%

Bachelor's  
Degree

70%

Average Age  
Under 28

60%

Top Hi-tech  
Company

50%

R&D Team

# Mission

Use robots to improve  
the efficiency of human  
production and living

To become the world's  
strongest commercial  
service robot company

# Vision





THINKING IN THE LIGHT  
OF FIRST PRINCIPLES



BE INVENTIVE



BE ENTERPRISING &  
ACCOUNTABLE



BE OPEN-UP



MOVING FAST



BE CUSTOMER-CENTRIC



EMBRACING CHANGES



PURSuing FOR  
THE ULTIMATE

# Culture

Committed to using robots to improve the efficiency of production and human life, Pudu Robotics has become the world-leading brand in the field of global commercial service robots. Propose robotics solutions such as robot R&D, indoor autonomous driving, and smart catering empowerment, dedicating to prove our value with the pursuit of the most extreme technology and products.



GOOD DESIGN AWARD



reddot award  
best of the best

The Red Dot Design Award



CES Innovation Award



Top Digital Innovation Award



Innovation Award



CHTF Star Product Award



Robot Award



高新技术企业

Chinese High-Tech Enterprise  
Certification



Top 30  
Catering Service Provider



SHENZHEN TOP BRAND



2020  
省长杯  
工业设计大赛  
Governor Cup  
Industrial Design  
Competition

Governor Cup Excellence Award



2020 For Good Award

# Certificate

All of existing products have passed the multi-certification that match the targeting markets.



# Patent

Pudu Robotics has applied for more than hundreds of patents, involving positioning, navigation, motion control, human-computer interaction, robotics arm, servo motor, computer vision, cloud platform and other technical fields.



Pudu Robotics is exploring the global markets rapidly and currently with the coverage of over 60 countries and 600 cities worldwide. We are on the way to explore and deliver more to the future!



# Sales Network

# After Sales Service

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**Offline Service:**

- **1 Year Free Warranty**
- **7 \* 24 Hours Service**
- **Local Service & Support**

Pudu Robotics has a thorough after-sales support system and humanized after-sales policy as well, whenever it is needed, we are going all out to offer service to reach your satisfaction.

# After Sales Service

## PUDU CARE

**Timely**

Global service network  
in 30+ countries

**Professional**

Exclusive technical expert  
and local support  
for customers

**Satisfying**

Remote and onsite service,  
free tech training and  
certification for PUDU robot

Warranty guarantee and  
value-added service



Delivery  
Robot

**PuduBot**  
Intelligent Delivery Robot



Delivery  
Robot

**BellaBot**  
Premium Delivery Robot



Delivery  
Robot

**PUDU HolaBot**  
Pager & Notifications Delivery Robot



Delivery  
Robot

**KettyBot**  
Flexible Multitasker



Delivery  
Robot

**SwiftBot**  
Versatile Delivery Robot



Delivery  
Robot

**FlashBot**  
Building Delivery Robot



Cleaning  
Robot

**PUDU CCI**  
Intelligent Commercial Cleaning Robot



Cleaning  
Tool

**PUDU SHI**  
Commercial Floor Scrubber



Disinfection  
Robot

**Puductor 2**  
Disinfection Robot

# PuduBot

## Intelligent Delivery Robot



- Large capacity with 7-layer adjustable tray
- 6 delivery modes for different purposes
- Deliver safely with built-in 3D obstacle avoidance sensor
- Deliver steady with auto-independent linkage suspension

Machine Dimension	516*500*1288mm
Machine Weight	38kg
Machine Material	ABS/Aviation-grade aluminum alloy
Charging Time	4h
Battery Life	10-24h
Cruise Speed	0.5-1.2 m/s (Adjustable)
Load Capacity	13 kg/tray, Max 30kg



# BellaBot

Product 14

## Premium Delivery Robot

- Large capacity with 4-layer induction tray
- Interact with the robot by touching
- Replace battery anytime
- Easy to navigate without markers

Machine Dimension	565*537*1290mm
Machine Weight	59kg
Machine Material	ABS/Aviation-grade aluminum alloy
Charging Time	4.5h
Battery Life	12-24h (Replaceable Battery)
Cruise Speed	0.5-1.2 m/s (Adjustable)
Load Capacity	10 kg/tray, Max 40kg



# PUDU HolaBot

## Pager & Notifications Delivery Robot



- Greatly improve plates collection efficiency
- Large load capacity up to 60kg
- Easily controlled by a smartwatch
- Contactless and safe delivery

Machine Dimension	542×534×1226mm
Machine Weight	55kg
Machine Materials	ABS/Aviation grade aluminium alloy
Charging Time	4.5h
Battery Life	10-24h (Replaceable Battery)
Cruising Speed	0.5-1.2 m/s (Adjustable)
Load Capacity	15 kg/tray, Max 60kg

# KettyBot

Product 16

## Flexible Multitasker

- Pass freely with 55cm left
- A walking AD display with 18.5" screen
- Easy to navigate without markers
- Work continuously for 8 hours

Machine Dimension	435x450x1120mm
Machine Weight	38kg
Load Capacity	30kg
Battery Life	>8h
Charging Time	4.5h
Crossing Width	≥55cm
Cruise Speed	Max 1.2 m/s
Ad Display Dimension	18.5"
Docking Station Dimension	400×170×400mm



# SwiftBot

## Versatile Delivery Robot

- Excellent performance in highly dynamic and complex environment
- Initiatively detect passer-by and give way to pedestrian
- Industry-first laser projection interaction of delivery robot
- Automatic electric door to secure hygiene, safety and privacy
- Support Pudu Pager and remote calling
- Excel in IoT capability and function expandability

Machine Dimension	488*593*1281mm
Machine Weight	55kg/49kg
Maximum Loads	35kg
Trays	Size: 433*502mm Default 3*trays Maximum 5*trays
Charging Time	4.5h
Battery Life	10~24h
Cruise Speed	0.5~1.2 m/s



# FlashBot

Product 18

## Building Delivery Robot

- Call and take elevator automatically
- Greeting and check-in guidance
- Room delivery with adjustable compartment
- Automatic charging

Machine Dimension	539*515*1050mm
Machine Weight	55kg
Load Capacity	15 kg/layer, Max 30kg
Machine Material	ABS/Aviation-grade aluminum alloy
Compartment Space	2-4 compartments (Adjustable)
	219*410*286mm (Single)
	438*410*286mm (Double)
Charging Time	4.5h
Battery Life	12h
Charging Mode	Automatic Charging
Cruise Speed	0.5~1.5 m/s (Adjustable)



# PUDU CCI

## Intelligent Commercial Cleaning Robot

- Stable efficiency and higher quality of cleaning
- Lower recruitment, training and management costs
- Reduce employee injuries and absences
- Easily deal with custodial inspections with digital reports

Machine Dimension	663*568*682mm
Machine Weight	60kg
Sweeping Width	500mm
Scrubbing Width	400mm
Water Tank Capacity	Clean Water Tank 15L Waste Water Tank 17L
Charging Time	< 4h
Run-time	Max 9h
Cleaning Efficiency	700-1000 m <sup>2</sup> /h
Cruise Speed	Max 1.2 m/s



# PUDU SH1

Product 20

## Commercial Floor Scrubber

- Average cleaning efficiency is 70% higher compared to traditional cleaning tools
- Multiple cleaning modes targeting at light and tough stains separately
- Complete control at your fingertips

Machine Dimension	400×270×1190mm
Machine Weight	22kg
Water Tank Capacity	Clean Water Tank 4L/ Waste Water Tank 4.2L
Scrubbing Width	400mm
Run-time	90mins
Brush Speed	350rpm
Battery Capacity	23.6Ah
Noise	76dB(A)
Charging Time	<3h



# Pu ductor 2

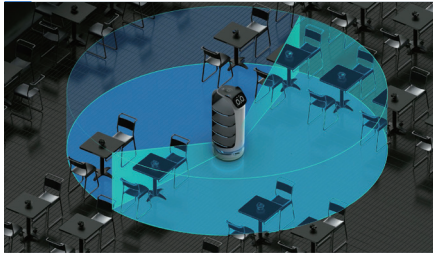
## Disinfection Robot

- 2 L/h ultrasonic dry mist disinfection
- 188  $\mu\text{W}/\text{cm}^2$  UV-C disinfection
- Max 6h disinfection time
- Automatic positioning and navigation system

Machine Dimension	544x538x1290mm
Machine Weight	60kg
Battery Capacity	51.2Ah
Reservoir Capacity	15L
Atomization Rate	4-level (Adjustable)
1 Meter Irradiation Intensity	188 $\mu\text{W}/\text{cm}^2$ UV-C (254nm)
Effective Disinfection Distance	3 meters
Disinfection Time	Max 6h (Automatic Recharging)
Cruise Speed	0.1-1 m/s (Adjustable)
Disinfectant Solution	Hydrogen Peroxide ( $\text{H}_2\text{O}_2$ ), Hypochlorous Acid ( $\text{HClO}$ ), Chlorine Dioxide ( $\text{ClO}_2$ ), etc.
Max Climbing Angle	5°



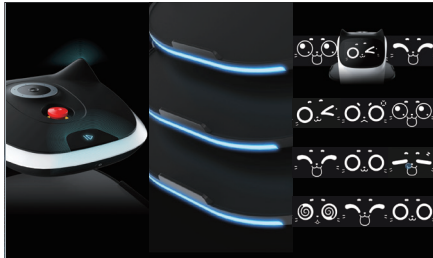




## 3D PERCEPTION & AVOIDANCE

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- Excellent perception capability supported by combination technology of RGBD sensors, RGB cameras Lidar, and calculation ability
- Capable of detecting pedestrian's features, such as walking direction, age and gesture, then trace the path and adopt different avoidance strategy according to the pedestrian's features



## MULTI-MODAL INTERACTION

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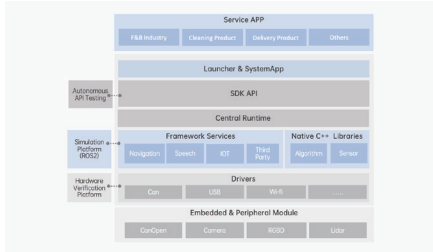
- Various interaction techniques such as text, speech, touch, illumination, and expressions can be implemented by integrating multi-modal information such as aural, visual, tactile, and laser perceptions.
- Dramatically improve the efficiency, naturalness, and accuracy of human-robot interaction, bringing you a new experience in human-robot cooperations.



## PUDU CLOUD

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- Cloud-based Intelligent Service Platform
- Data Collection Platform
- Automatic Operation and Maintenance Platform
- Service Management Platform
- Upload delivery data 7×24, Accelerate the digitalization of restaurants and make data management convenient



## PUDU OS

- An integrated robot operating system platform based on numerous PUDU product lines with a powerful cloud platform
- High extendability, supporting multi-platform such as Android, ROS, Linux and providing various tools for 3rd party development
- PUDU developed security system with high credibility



## PUDU SLAM

- State-of-the-art multi-sensors based SLAM technology, fusion of Lidar, Camera, RGBD, IMU and Encoder, etc.
- Support Lidar SLAM and Visual SLAM
- High positioning accuracy, ensuring autonomous mobility of robots in complex and dynamic environment



## PUDU SCHEDULER

- Dispatch up to 100 robots easily in one environment
- Powerful self-organized network
- Adapt to complex and dynamic scenarios



Restaurant



Hotel



School



Office



Coffee Shop



Shopping Mall



Hospital



Factory

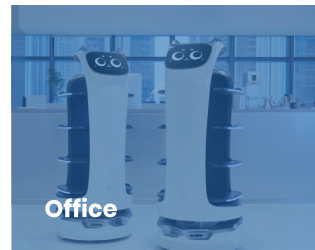






















Public Place

# Scenario

# 25 Scenario

Pudu Robotics has independently researched and developed its own robot positioning and navigating technologies based on multi-sensor strategy, our products could be widely used in commercial scenarios like restaurant, hotel, hospital and office.



# Cooperation

















## Technology Partner

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# Cooperation

# Media Coverage



Pudu Robotics 🔍

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