

PUDU ROBOTICS

Global Leading Robotics Company







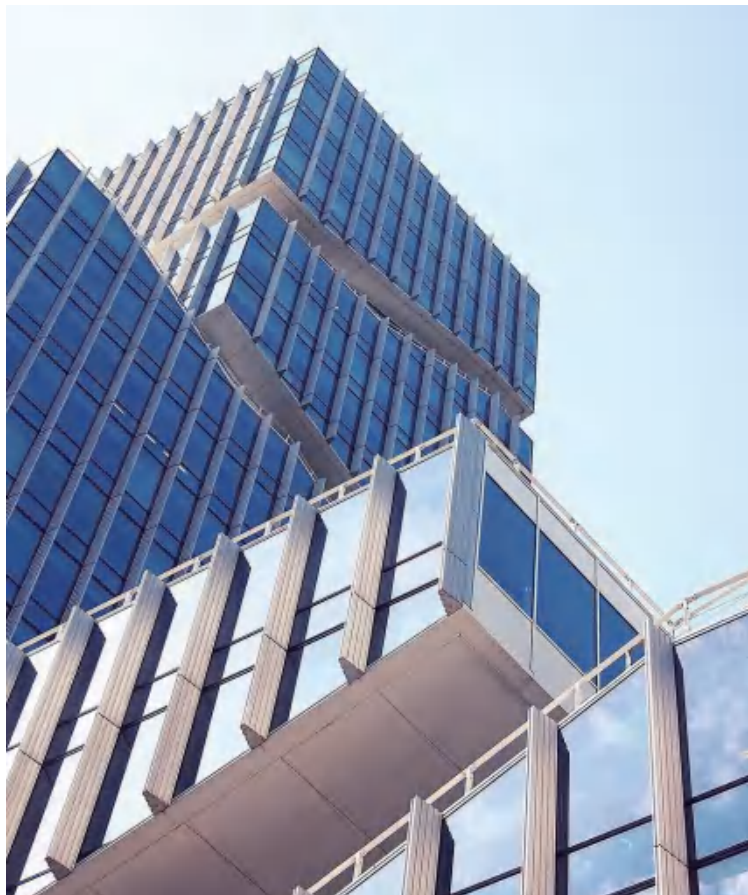
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01 Company Profile

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

Company
Profile 02

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
- HolaBot

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
- KettyBot
- 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 Team

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

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



向光奖
FOR GOOD
AWARDS

2020 For Good Award

Certificate

Certificate &
Patent

08

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

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 CC1
Intelligent Commercial Cleaning Robot



Cleaning
Tool

PUDU SH1
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
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Machine Weight	38kg
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Load Capacity	30kg
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Battery Life	>8h
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Charging Time	4.5h
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Crossing Width	≥55cm
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Cruise Speed	Max 1.2 m/s
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Ad Display Dimension	18.5"
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Docking Station Dimension	400×170×400mm
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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

Building Delivery Robot

Product 18

- 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)



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 ² /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



Puductor 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 (H_2O_2), Hypochlorous Acid (HClO), Chlorine Dioxide (ClO_2), etc.
Max Climbing Angle	5°





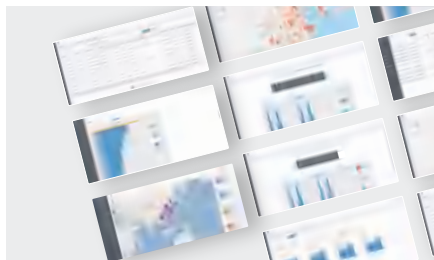
3D PERCEPTION & AVOIDANCE

- 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



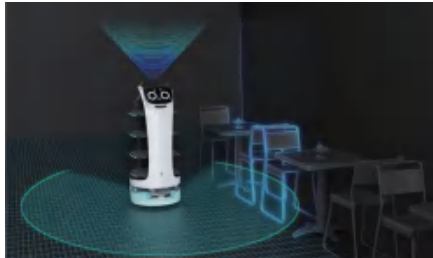
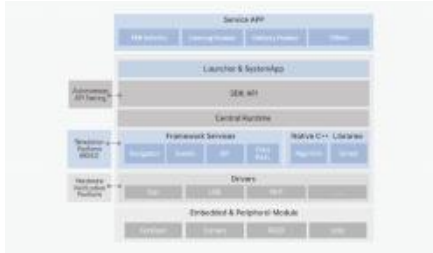
MULTI-MODAL INTERACTION

- 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

- 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

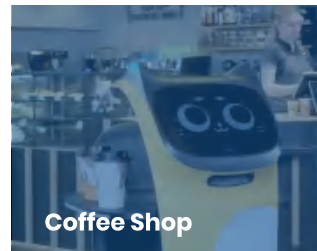
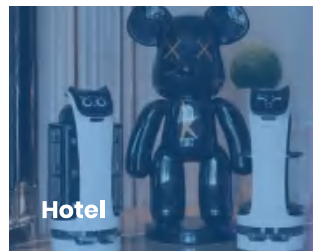


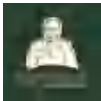
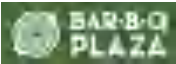
Public Place

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



Cooperation

Media Coverage

The logo for CGTN, featuring the letters "CGTN" in yellow on a blue rectangular background.The ABC logo, featuring the letters "ABC" in white on a black background, with a stylized "A" that incorporates a circle.The MailOnline logo, with "Mail" in a bold, black, sans-serif font and "Online" in a lighter, black, sans-serif font.The CBC logo, featuring a red maple leaf icon to the left of the letters "CBC" in a bold, black, sans-serif font.The logo for TheStar, with "The" in a black, italicized, sans-serif font and "Star" in a red, italicized, sans-serif font.The logo for stuff, with the word "stuff" in a bold, black, lowercase, sans-serif font.The logo for BNEWS, featuring a blue icon of three vertical bars to the left of the word "NEWS" in a bold, blue, sans-serif font.The CTV logo, featuring the letters "C", "T", and "V" in white on a red, blue, and green background respectively.The logo for techradar, with the word "techradar" in a white, lowercase, sans-serif font on a blue rectangular background.The BBC logo, featuring the letters "B", "B", and "C" in white on a black background, each in its own square.The logo for CRN, with the letters "CRN" in a red, stylized, sans-serif font.The Bloomberg logo, with the word "Bloomberg" in a bold, black, sans-serif font.The logo for Forbes, with the word "Forbes" in a white, sans-serif font on a black rectangular background.The logo for The Detroit News, with the words "The Detroit News" in a red, serif font.



Pudu Robotics 🔍

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