



# FlashBot

Auto Building Delivery





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# FlashBot

## Building Delivery Robot

FlashBot is Pudu's latest building delivery robot. It is designed to utilize the elevator with unprecedented mobility, allowing you to automate delivery tasks safely, accurately, and frequently. It can navigate around people in hotels and office buildings without a human driver, which takes a great step in intelligent delivery.





## Product Overview · FlashBot



Machine dimension	539*515*1050mm
Machine weight	55kg
Payload	15kg/layer, Max30kg
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	Auto-charging
Cruise speed	0.5~1.5m/s (Adjustable)



# Product Overview · FlashBot





## Product Overview · FlashBot



### Auto Building Delivery Service

Automatic, contactless delivery of customer-ordered items and takeaways.



### Greeting and Guiding

Check-in guidance is provided based on optimal path planning and voice announcements.



## Product Overview · FlashBot



### Auto Elevator Taking

Powered by IoT technology, FlashBot calls and takes the elevator automatically for delivery across floors.



### Auto Calling

FlashBot provides arrival notifications by telephone calls for customers to pick up the deliveries.



### Easy Charging

FlashBot charges itself automatically when we click charging button.



# Product Overview · FlashBot

Staff



Taking order



Calling robot



Placing items

Robot



Sending arrival notification



Auto elevator taking



Auto delivery

Customer



Receiving code



Picking up



Returning





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# Product Advantages · Building Delivery Expert

## FlashBot · Building Delivery Expert

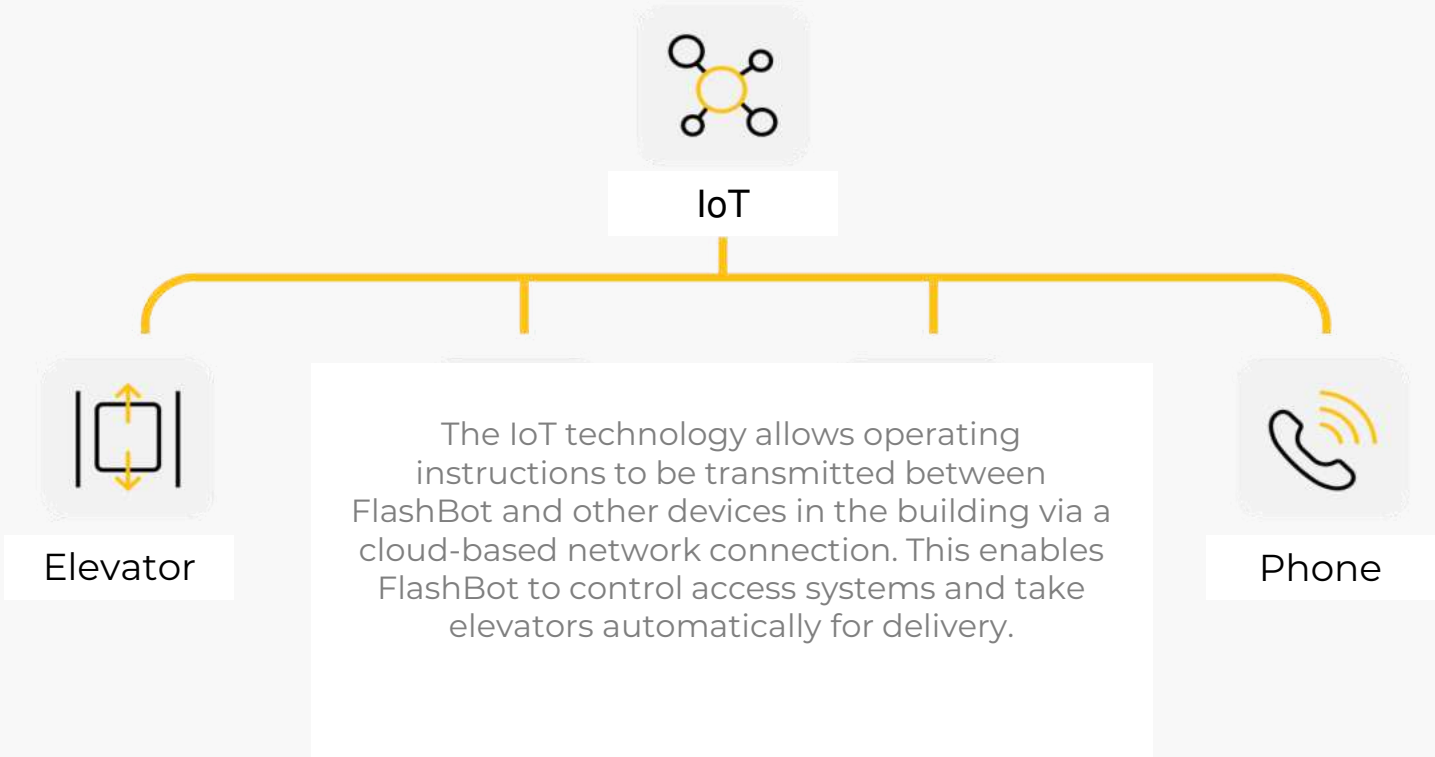


- IoT technology
- Safe and efficient
- Advanced digital management



## Product Advantages · IoT Technology

# What makes FlashBot a building delivery expert?





## Product Advantages · IoT Technology

# What makes FlashBot a building delivery expert?



FlashBot taking an elevator



FlashBot calling the customer

Thanks to the IoT technology, FlashBot can send operating instructions to other devices in the building via a cloud-based network connection. This means FlashBot can call and take the elevator automatically without manual intervention, and remind customers of the pickup by calling the customer. With autonomous positioning and navigation, cross-floor delivery is now easier than ever.



## Product Advantages · IoT Technology

### Upgraded Auto-Level Suspension



The newly upgraded auto-level 6-wheel independent linkage suspension can adjust the damping based on different floor conditions, so that the robot can always remain in the optimal stable state.

Surmount obstacles of 2cm high and gaps of 3.5cm wide, offering 50% higher operating stability.

### 3D Obstacle Avoidance



3 RGBD cameras & customized lidar empower FlashBot with sensitive perception to detect obstacles as low as 3 cm and suspended obstacles at a height of 70 cm from the floor, making it ideal for dynamic environments with many obstacles.

### 70 CM Superior Passability



With a minimum clearance of 70 cm, FlashBot can navigate through the passages in 99.9% of building scenarios.



## Product Advantages · Safe and Efficient



### **Modular Adjustable Compartment**

The multi-functional compartment maximizes space utilization, enabling FlashBot to perform multiple tasks with a single tap.



### **UV Sterile Compartment (UV Can be turned off)**

The compartment features a UV germicidal lamp that offers a sterilization rate of up to 99.9%.



## Product Advantages · Safe and Efficient



### Laser Positioning and Navigation Tech.

FlashBot adopts Laser SLAM which supports unlimited heights and does not require location code stickers. It supports multiple starting points and simple to deploy.



### Multiple Robot Cooperation

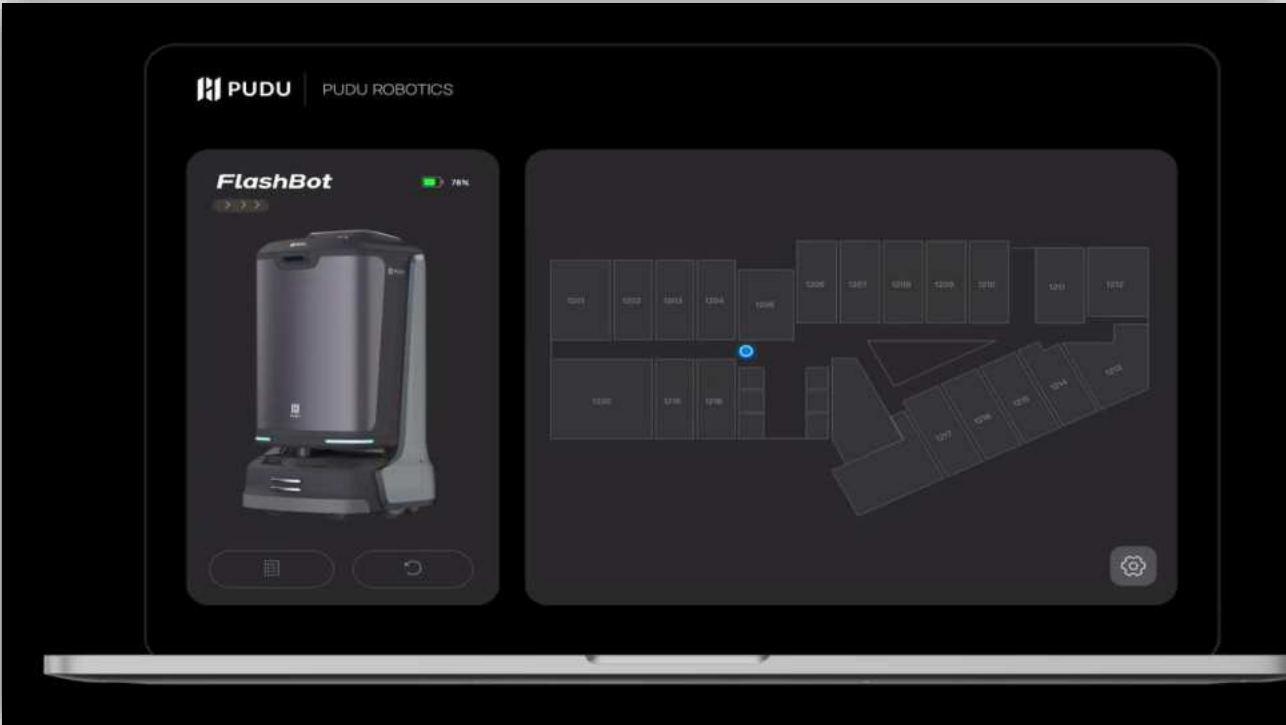
Powerful ad hoc network allows FlashBot to adapt flexibly to dynamic environments and schedule more than 20 robots to work together.



# Product Advantages · Digital Management Transformation

## Digital Hotel Transformation

PUDU CLOUD platform uploads the operating status and data of each robot in store 24\*7, collects business data in real-time, generates data reports automatically, monitors the operation of robots, and upgrades the robot software remotely, driving the digital transformation of hotels.







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## Product Values · Manager

# Manager

### Optimized Staffing and Reduced Costs



- Robot-human collaboration frees the staff from the repetitive and tedious work, optimizing the staffing for each position and bringing significant cost savings.

### Enhanced Competitiveness with Differentiation



- Digital management and remote real-time monitoring allow for optimized accommodation services.
- Innovative services differentiate the brand from traditional hotels.
- The new OTA encourages customers to promote the hotel, which helps attract more potential customers.

### Improved Accommodation Service Quality



- 24\*7 contactless delivery and quick response to customer needs at any time create an excellent and safe customer experience.
- FlashBot frees the staff from the repetitive and tedious work, allowing them to focus more of their time and efforts on serving customers better.

### Supplies Allocation Adapted to Customer Needs



- The allocation of supplies can be optimized based on the automatically generated report of supplies delivered. This helps prevent waste and enables a cost-effective solution.



## Product Values · Staff

# Staff

### Reduced Workload and Pressure



- Repetitive and tedious work ↓
- Night shift requirements ↓
- Workload and pressure ↓



### Improve Satisfaction

- A happier team translates to an elevated customer experience.
- High-quality service improves customer satisfaction.
- Reduction in customer complaints, thus enhances employee engagement.

### Redefined Employee Values



- Staff feels valued when they are relieved from repetitive and strenuous tasks. Customers can be served in the best way possible.
- Staff can gain recognition from customers and their managers for their excellent performance, thus improving job satisfaction.



# Product Values

## Customer

**Efficient, Private, and Contactless  
Building Delivery Services**

The contactless delivery by FlashBot provides sense of safety in the post-COVID-19 era.





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# Pudu Robotics

Pudu Robotics, a global leader in the service robotics sector, is dedicated to enhancing human productivity and living standards through innovative robot technology.

With a focus on R&D, manufacturing, and sales of service robots, Pudu Robotics holds nearly a thousand authorized patents worldwide, encompassing a wide range of core technologies. The company's robots have been widely adopted in various industries, including dining, retail, hospitality, healthcare, entertainment, education and manufacturing. To date, Pudu Robotics has successfully shipped over 70,000 units to a variety of markets, with a presence in more than 60 countries and regions worldwide.

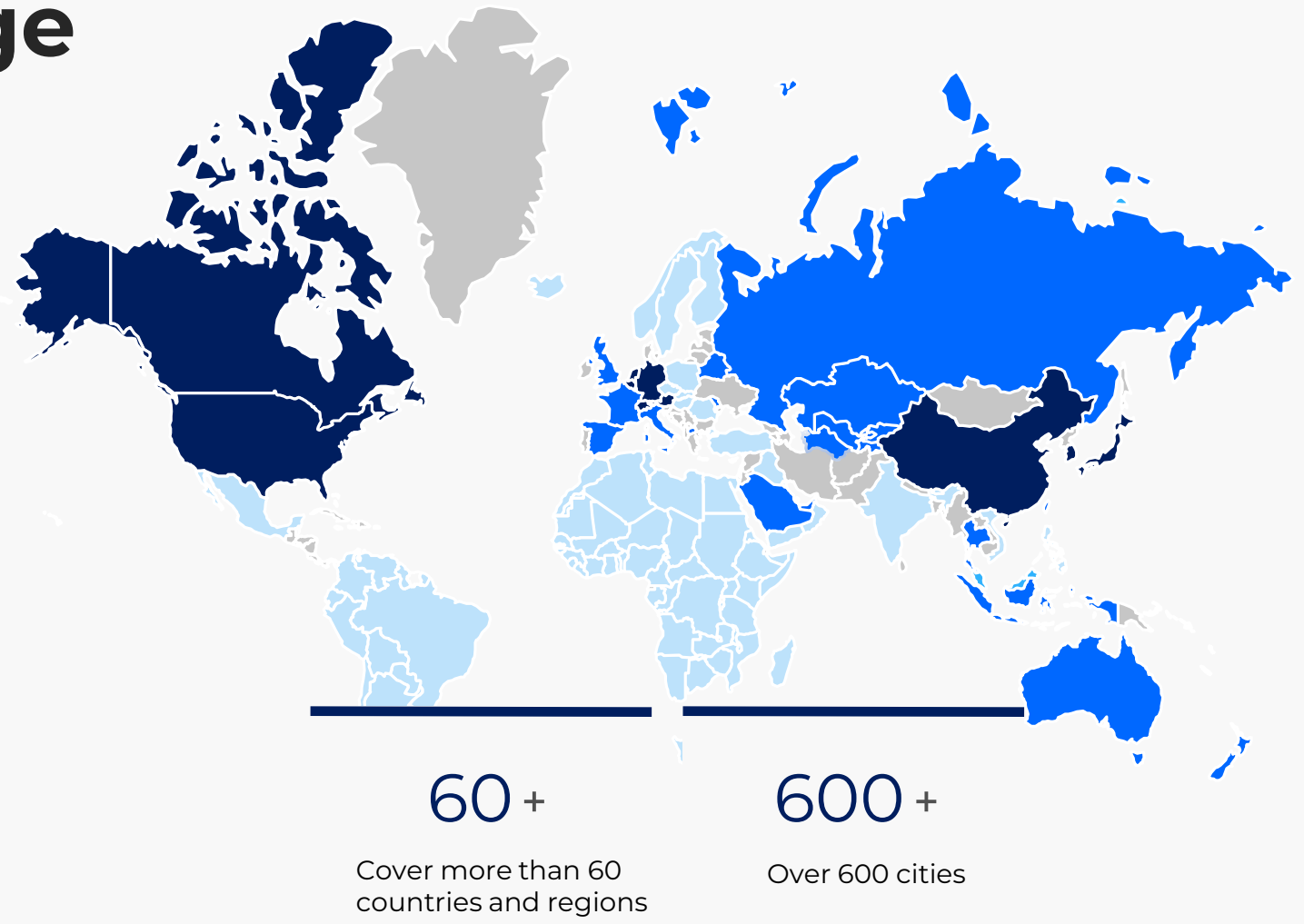




# Scale Advantage

## Globalization

Pudu Robotics has established a business presence in North America, Europe, East Asia, Asia-Pacific, the Middle East and Latin America. The products have been exported to more than 60 countries and regions around the world, covering more than 600 cities worldwide. Pudu Robotics has established a trustworthy international brand image and become one of the representative enterprises of China's "intelligent" manufacturing abroad.





# Cooperation

80% The market share of Top 100 restaurant clients 40,000+ Deployed Store



Catering Partners



Non-Catering Partners



Software and Hardware Partners





# Media Coverage

stuff life & style

## Robot waiter helps ease staff shortages in busy Northland restaurant

Devin Piner - 14:32, Jan 14, 2022



Vikas Sharma, owner of Green's Thai Cuisine in Pahia, explains how the BellaBot is used in the restaurant to take pressure off busy staff.

Wait staff run off their feet this summer due to worker shortages are getting an extra hand of the non-human kind.

A robotic waiter, BellaBot, is helping by delivering meals from the kitchen to tables, then running dirty dishes back to the kitchen.

At Pahia restaurant Green's Thai Cuisine, the BellaBot means wait staff can spend an average of 11 to 12 minutes longer at each table, owner Vikas Sharma said.

MailOnline Science & Tech

## Could robots fill the UK's service industry staff shortages?

This added an extra strain on the already short waiting staff, according to owners Paolo Hu and Peter Wu, who said the BellaBots had already proved popular with diners.

The guide price for the friendly-faced robots is \$20,000 (£14,500), which is less than the cost of employing a waiter at minimum wage for 40 hours per week.

Quirky footage shows Bella, who features a wide-eyed feline face, sweeping across the restaurant floor dishing out delicacies to delighted customers.

Restaurant forced to use robot waiters to tackle staff shortages

Watch the full video



CGTN

## Could robots fill the UK's service industry staff shortages?

AP Pudu Robotics' New Afra C1 Cleaning ... CES 2022



RESTAURANTS + BARS

## Madison Heights restaurant uses a robot to deliver food to tables

Melody Baetens The Detroit News

Published 12:51 p.m. ET Aug. 18, 2021 | Updated 9:28 a.m. ET Aug. 18, 2021

A Chinese noodle restaurant in Madison Heights may be the first in the area to employ the BellaBot, a robotic cart with a digital cartoon cat face that rolls food from the kitchen to the customers' tables.

Noodle Topia on John R is known for its house-made, hand-pulled noodle dishes, dumplings and Chinese tea drinks. The casual eatery has gained some non-human assistance in the form of BellaBot, which has four trays for carrying food (no arms) and has a precise



ABC

## First robot waiter in Tasmania glides into service

On your afternoon with Megan Street

There are definitely echoes of The Jetsons as one Japanese restaurant in Hobart! The state's first robot waiter glides from the kitchen to each table, serving meals from a tray on its back.

Harry Pie is a software engineer who loves new technology, and when he first came across the robot waiter online (this model is called Paro), he saw it as a great, contactless service solution for Tasmania. Harry founded Tai Robotics, and suggested his friend Tom, who runs Kizabira Japanese, might like to add one to his floor staff. Press play for lunch with a slice of the latest technology.






# THANK YOU



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