PUDU

FlashBot New

Building Delivery Expert

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PUDU FlashBot New

FlashBot New

Building Delivery Robot

FlashBot New is a versatile building delivery robot capable of operating in semi-outdoor environments. 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 human intervention, which takes a great step in intelligent delivery.

Product Overview · FlashBot New

Cloud & Hardware Solutions for Elevator Control

VSLAM+ Semi-outdoor Delivery

Multiple Compartment Access Verifications

Rapid Multi-floor Deployment

Full-Scope IoT Integration

Modular Adjustable Compartments

Product Overview · FlashBot New

RGBD Camera

Lidar

RGBD Camera

Charging Contact

Screen

Gull Wing Door

Six-wheel Independent Suspension

Product Overview · FlashBot New

Staff

Taking order → Calling robot → Placing items

Robot

Sending arrival notification ← Auto elevator taking ← Auto delivery

Customer

Receiving code → Picking up → Returning

Product Overview · FlashBot New

Machine dimension	21.18*21.02*41.42 in | 538mm*534mm*1052mm
Machine weight	132.28 lbs | 60kg
Payload	22.05 lbs/layer | 10kg/layer
Machine material	ABS/Aviation-grade aluminum alloy
Compartment space	2-4 compartments (Adjustable) 7.36*16.14*11.02 in | 187mm*410mm*280mm (Single) 14.96*16.14*11.02 in | 380mm*410mm*280mm (Double)
Charging time	4H
Run-time	9H
Navigation method	VSLAM + Marker + Lidar SLAM
Cruise speed	1.64ft/s~3.94ft/s | 0.5~1.2m/s (Adjustable)

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Product Overview

Product Features

Product Value

About PUDU

FlashBot New · Building Delivery Expert

- V-SLAM+ semi-outdoor delivery
- IoT technology
- Safe and efficient
- Advanced digital management

VSLAM+ Semi-outdoor Delivery
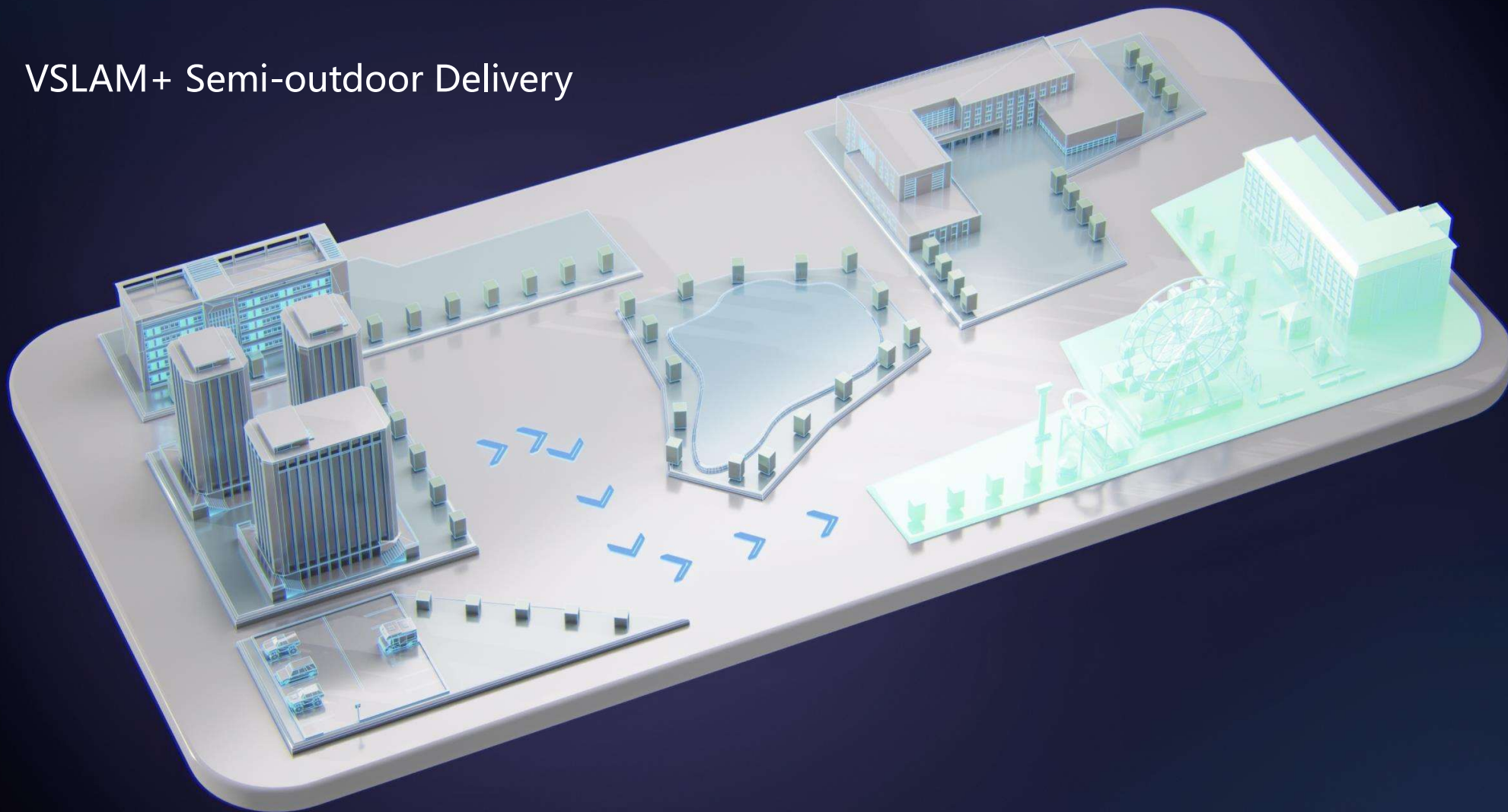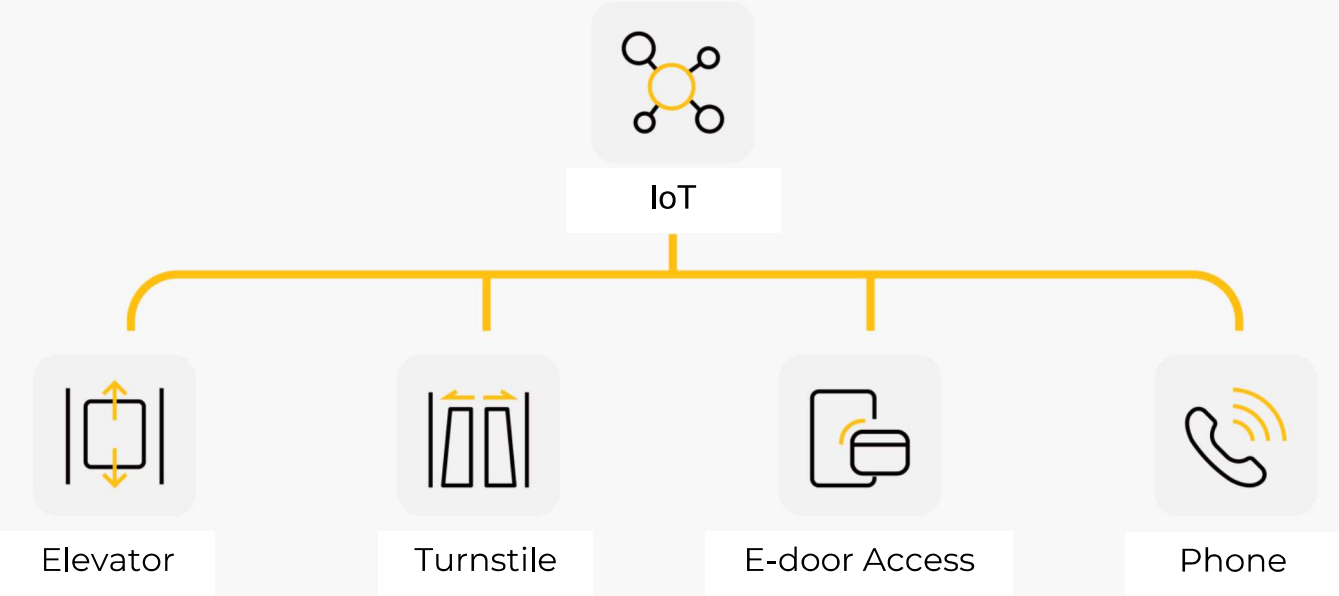
Product Features · Semi-outdoor Delivery

VSLAM+ Semi-outdoor Delivery

PUDU VSLAM+ navigation system is engineered specifically for semi-outdoor hotel environments. Unlike traditional delivery robots, the new FlashBot excels not only in handling indoor room service but also seamlessly navigates complex semi-open areas such as garden corridors, fitness zones, and poolside areas, delivering exceptional human-robot interaction.

Product Features · IoT Technology

IoT

Elevator

Turnstile

E-door Access

Phone

Product Features · IoT Technology

Evaluation 2: Arrival Notification

E-door Control
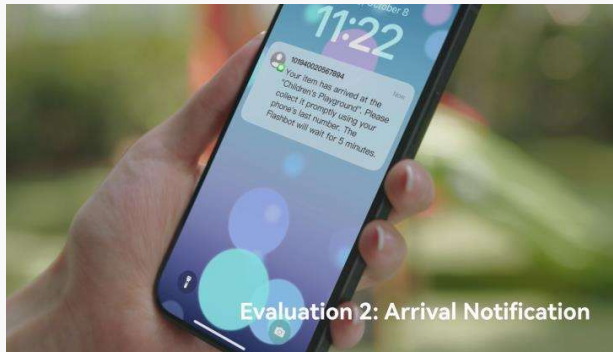
Leveraging IoT connectivity, the new FlashBot seamlessly communicates with various terminal devices within the building, enabling automatic calls, turnstile access, and elevator usage without the need for manual intervention. Experience hands-free convenience and enhanced delivery efficiency.
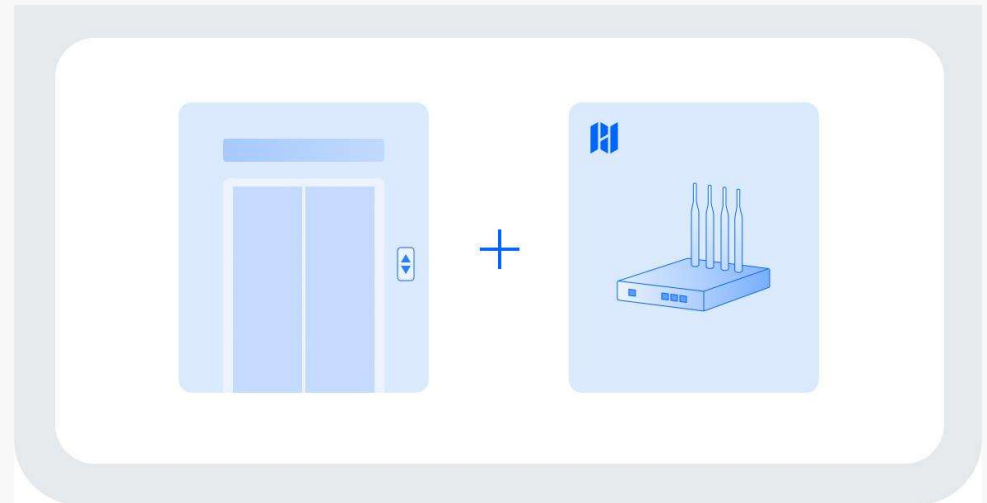
Product Features · Cloud & Hardware Solutions for Elevator Control
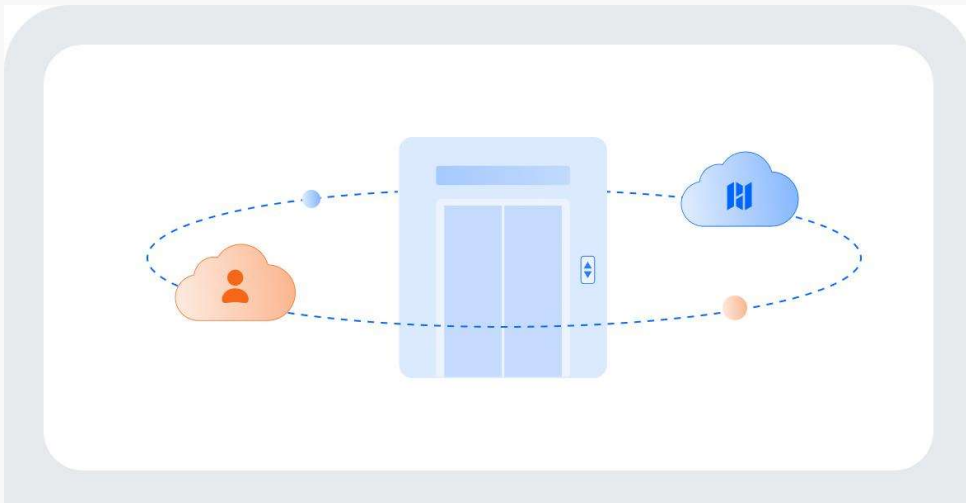
Cloud Elevator Control Solution

The Cloud Elevator Control Solution requires no elevator modifications for easy deployment and is fully compatible with leading brands like KONE and OTIS.

Hardware Elevator Control Solution

Pudu's self-developed Hardware Elevator Control Solution adapts flexibly to various building environments, providing you with an efficient and seamless elevator management experience that enhances operational efficiency.

PUDU FlashBot New

Product Features · Multiple Compartment Access Verifications
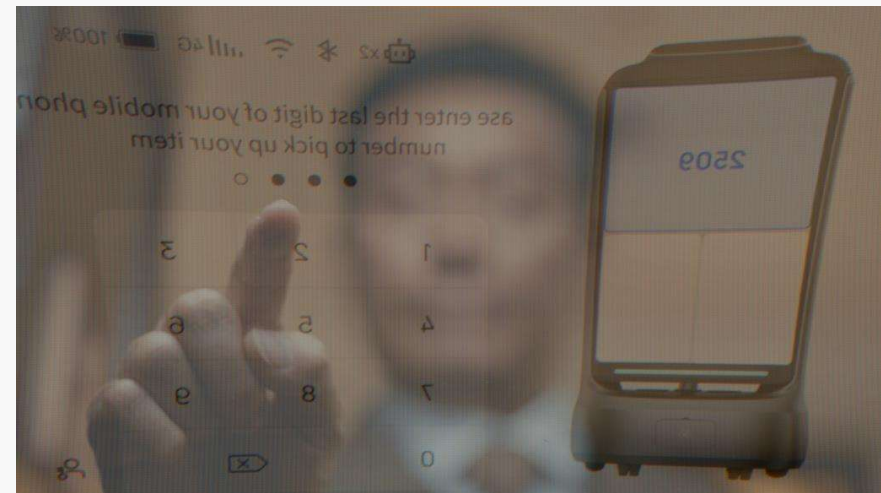
Supports password verification, phone number verification, and NFC sensing for compartment access, ensuring secure and worry-free item management from storage to retrieval.

Product Features · Rapid Multi-floor Deployment
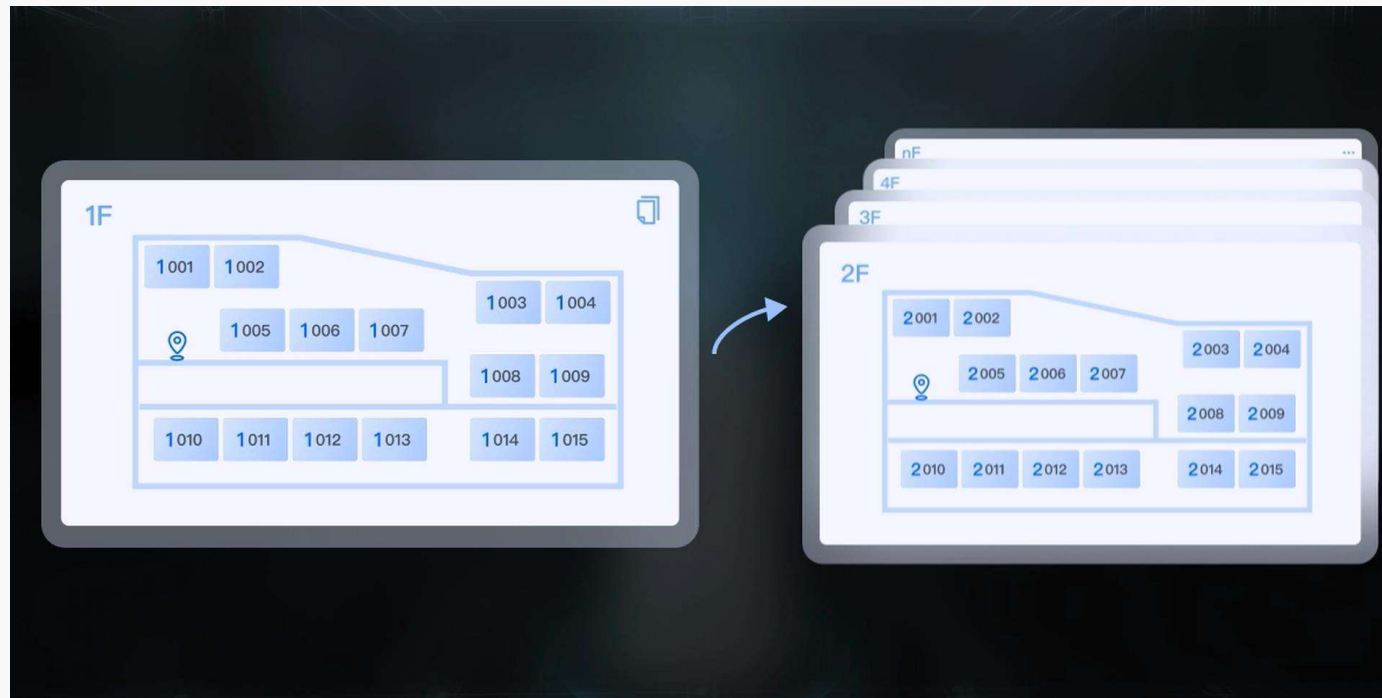
Supports rapid multi-floor map replication, enabling quick mapping and enhancing deployment efficiency and ease of operation.

Product Advantages · Modular Adjustable Compartment

2 Compartments

3 Compartments

4 Compartments

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

Product Features

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.
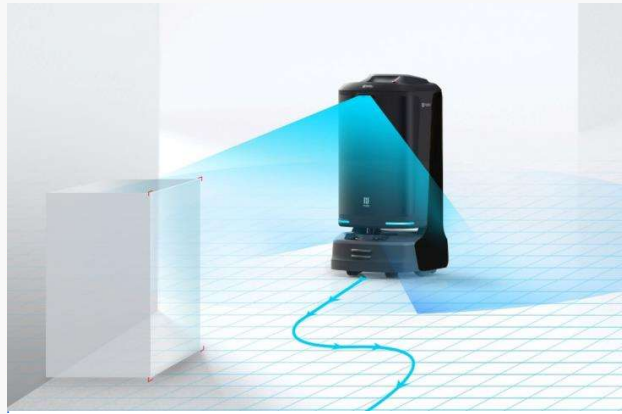
3D Obstacle Avoidance

2 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 Features

Compartment Ventilation

Compartment Ventilation System

Continuous compartment fan ventilation eliminates odors and bacteria.

Multiple Robot Cooperation

Muti-robot Scheduling System

Optimized task allocation ensures efficient multi-robot collaboration and intelligent avoidance in crowded environments, reducing waiting times for end customers.


Auto Power Charging

Seamless recharging in multiple scenarios for safety and convenience.
Heads to the charging station when battery is low to stay ready for action.

Product Features · Digital Management Transformation

PUDU Management Plattform

Users can utilize the Pudu Link and remote operations platform to monitor the robot's location and status in real-time. Remote deployment and maintenance are convenient and straightforward, providing clear visibility and control over operational data.

PUDU FlashBot New
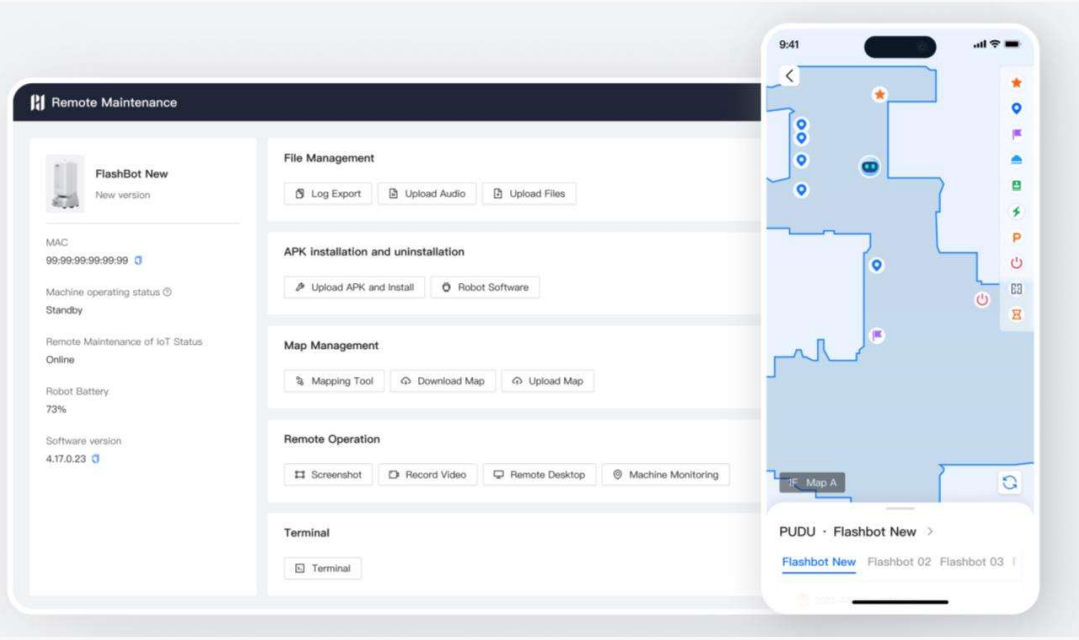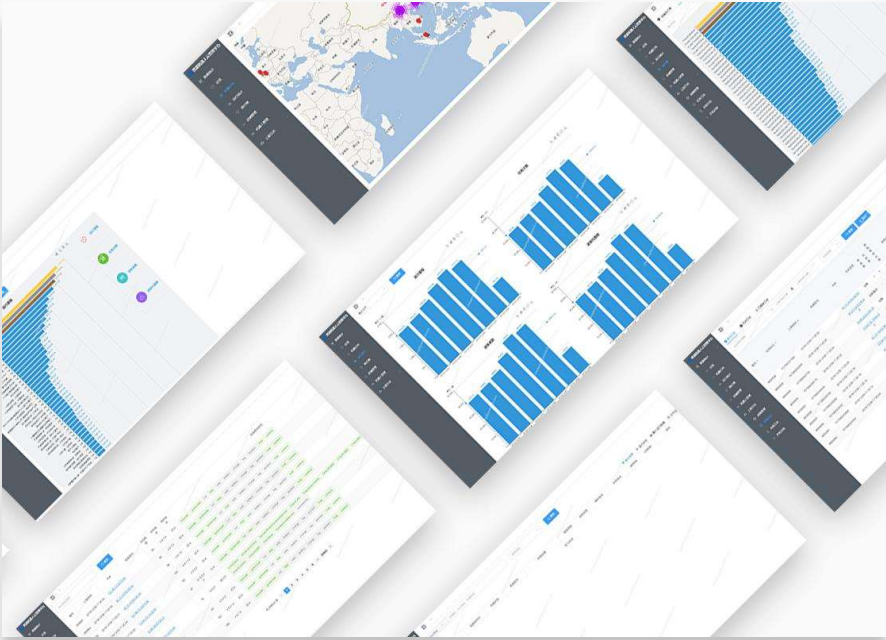
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About PUDU

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.

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About PUDU

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 over 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 80,000 units to a variety of markets, with a presence in more than 60 countries and regions worldwide.

PUDU FlashBot New
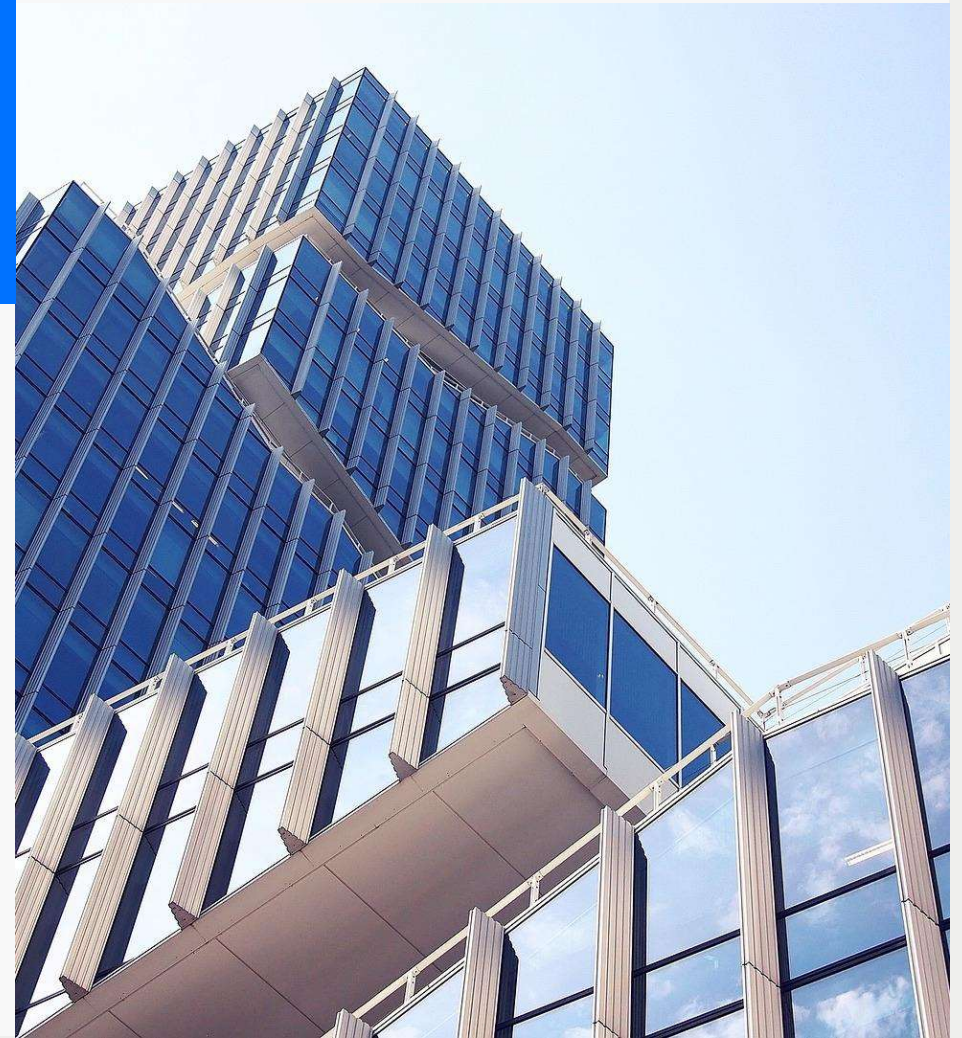
Scale Advantage

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.

60+
Cover more than 60 countries and regions

600+
Over 600 cities

PUDU FlashBot New
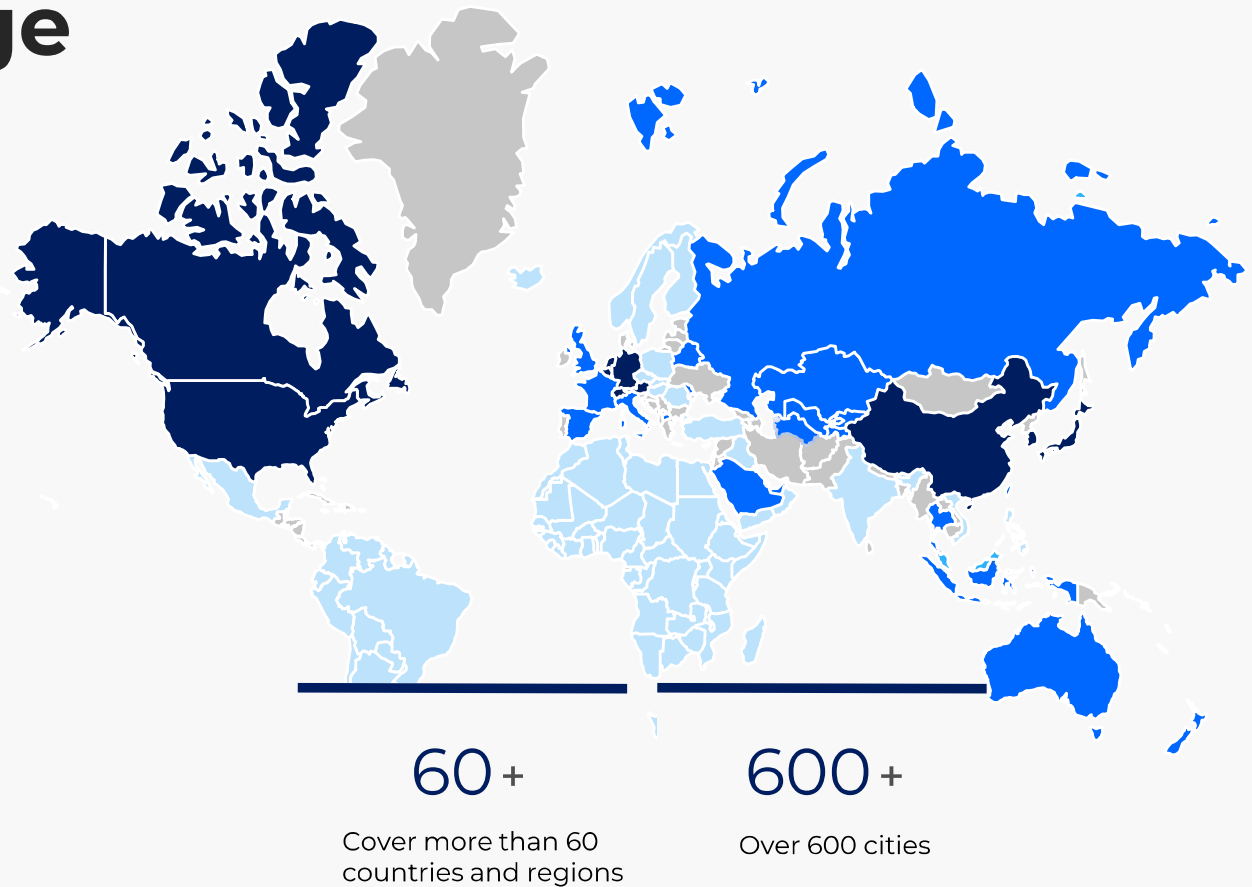
Cooperation

80% The market share of Top 100 restaurant clients   **40,000+** Deployed Store
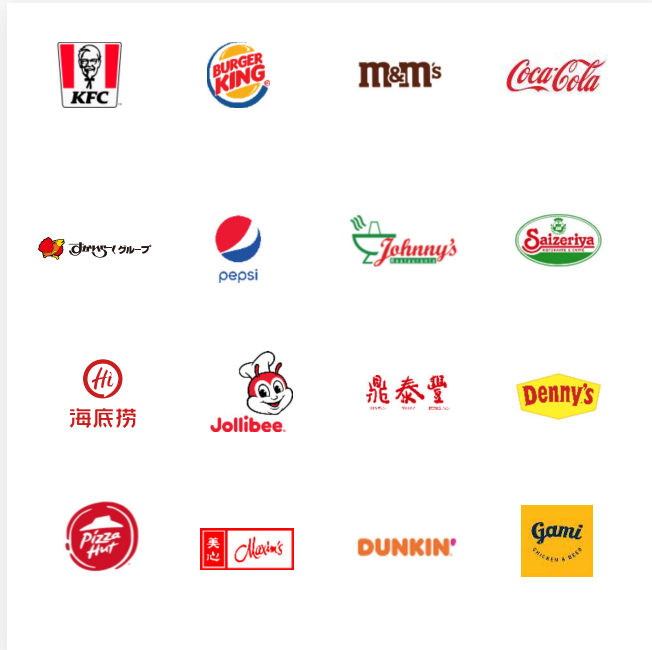
Catering Partners
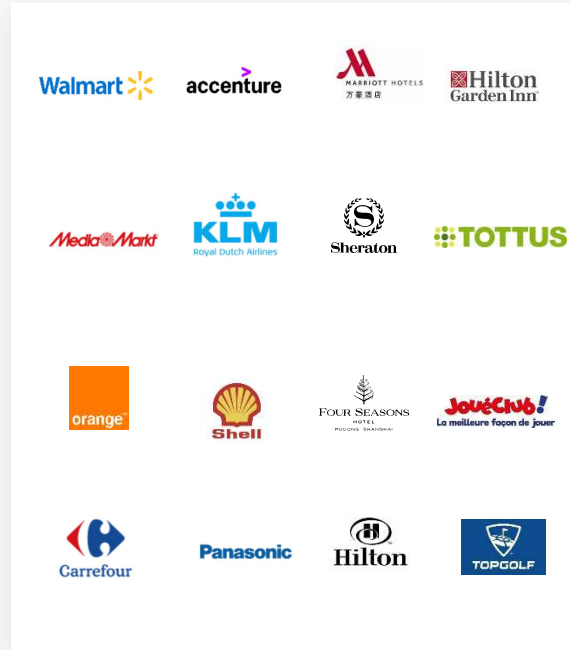
Non-Catering Partners
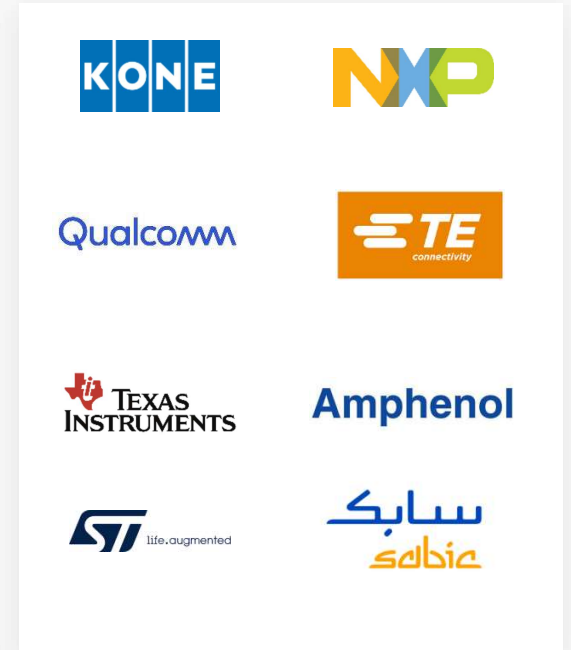
Software and Hardware Partners

Media Coverage