



FlashBot Max

Building Delivery Expert





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Product Overview

Product Features

Product Value



FlashBot^{Max}

Building Delivery Robot

FlashBot 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



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





Product Overview

Staff



Taking order



Calling robot



Placing items



Robot



Sending arrival notification



Auto elevator taking



Auto delivery

Customer



Receiving code



Picking up



Returning



Product Overview



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 + Lidar SLAM
Cruise speed	1.64ft/s~3.94ft/s 0.5~1.2m/s (Adjustable)



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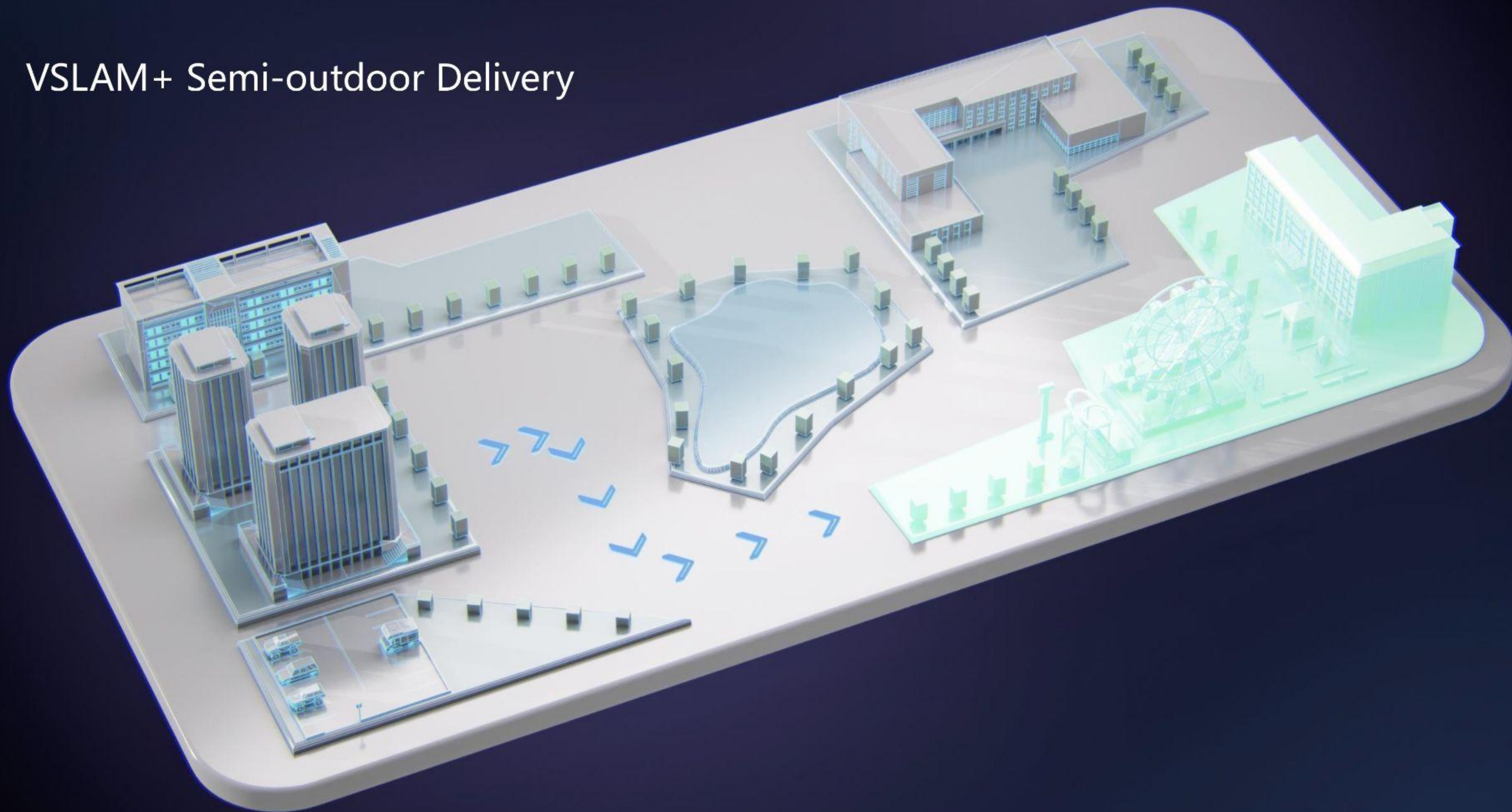
Product Advantages · Building Delivery Expert

FlashBot · 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

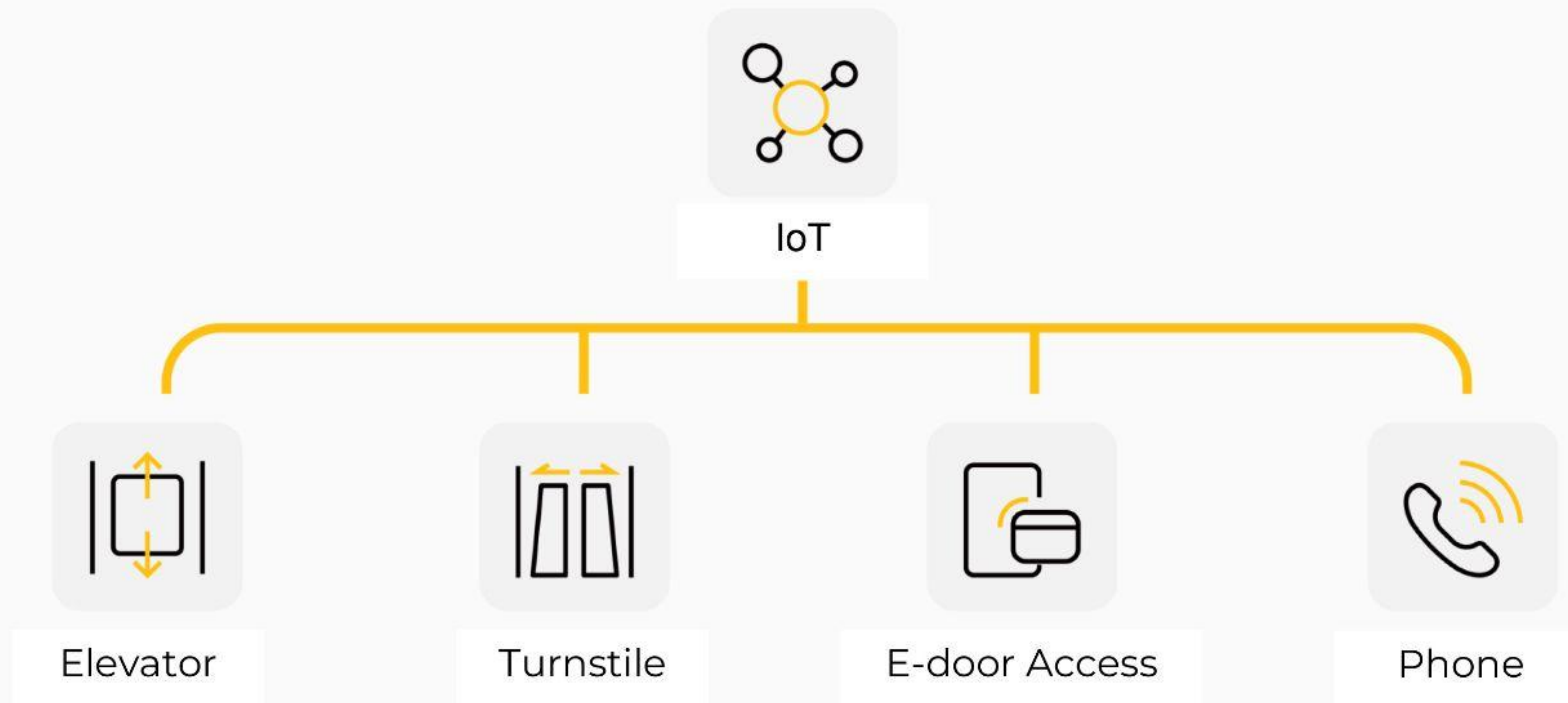


VSLAM+ Semi-outdoor Delivery

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.

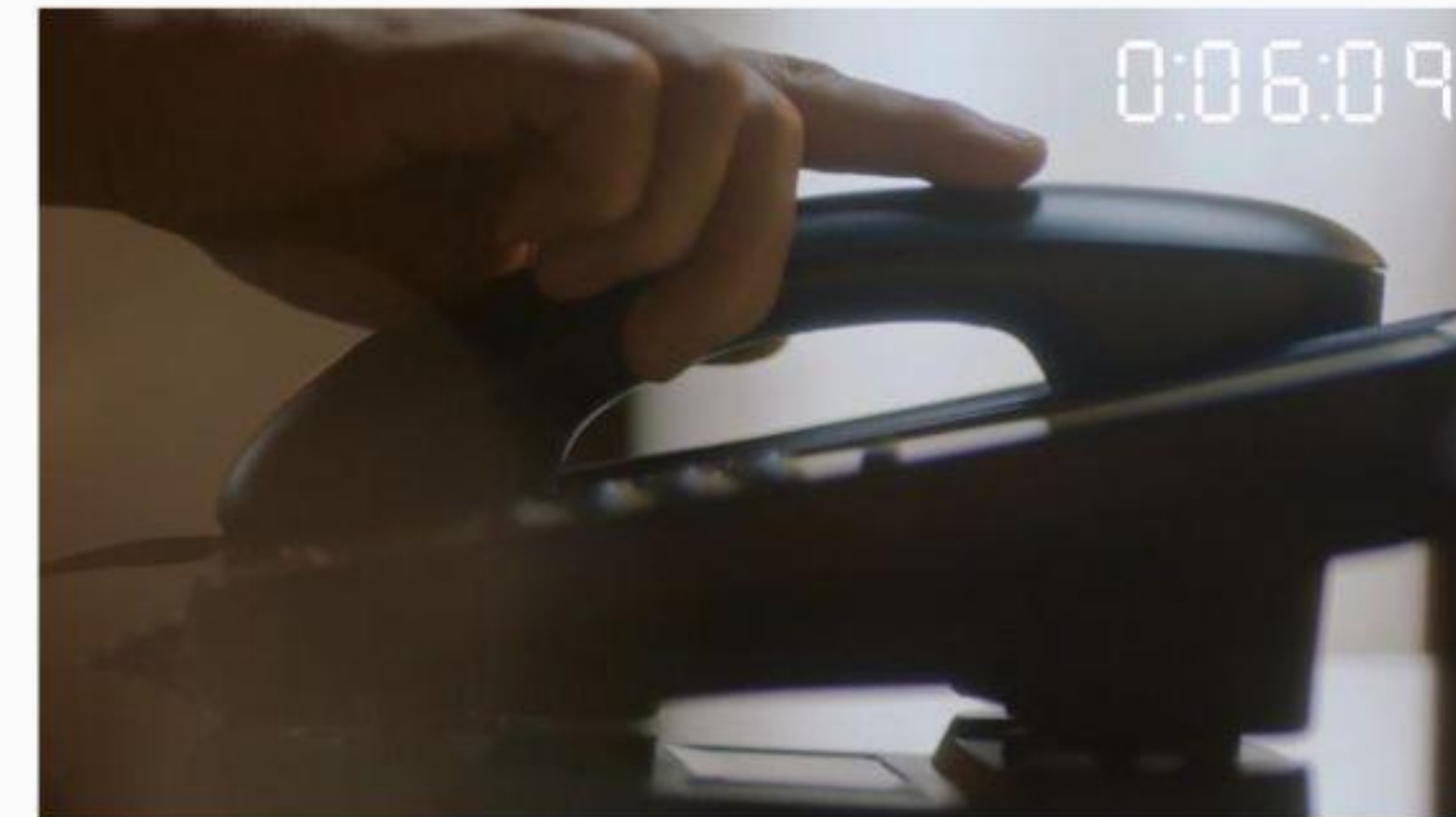
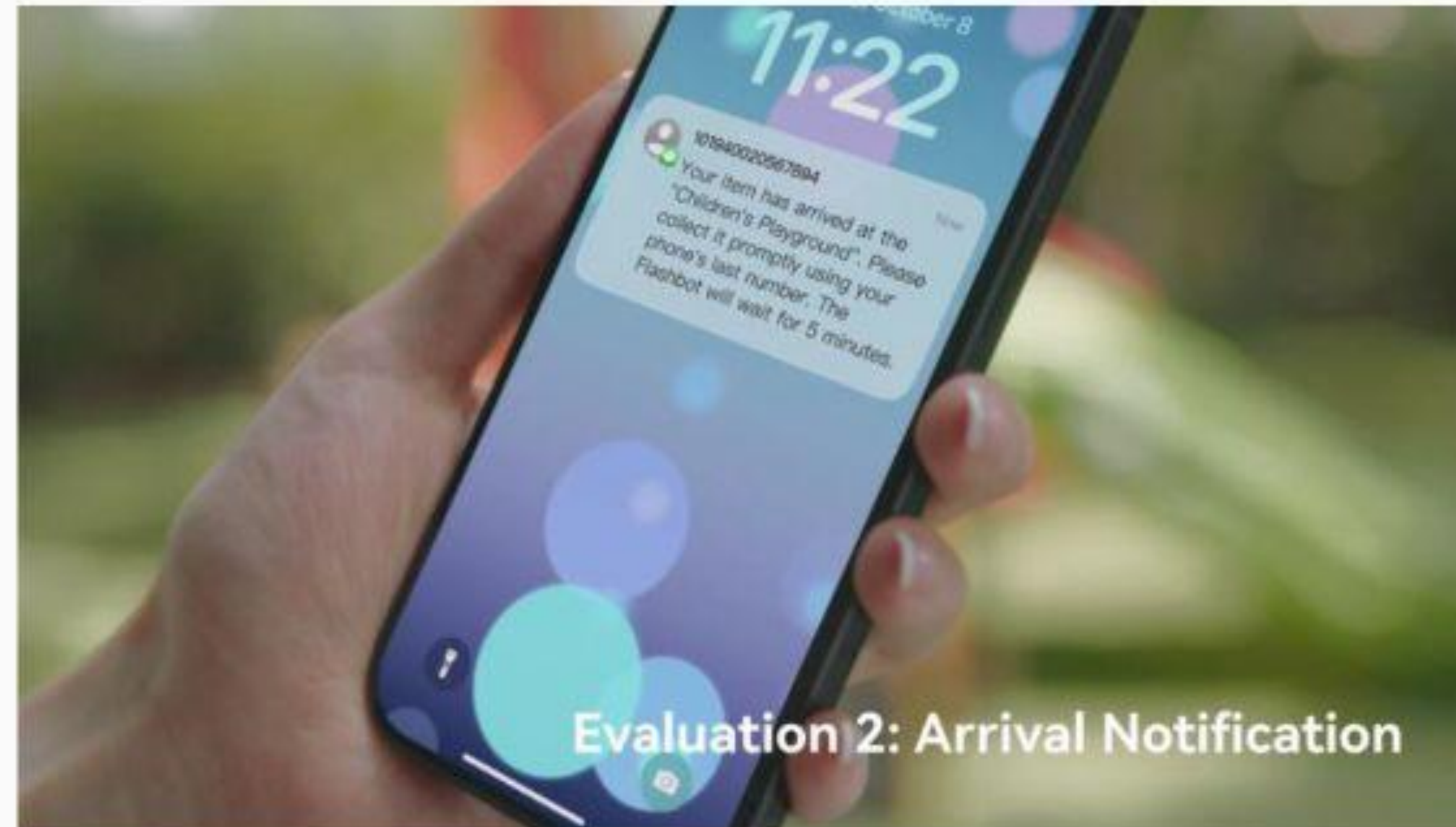


Product Features · IoT Technology





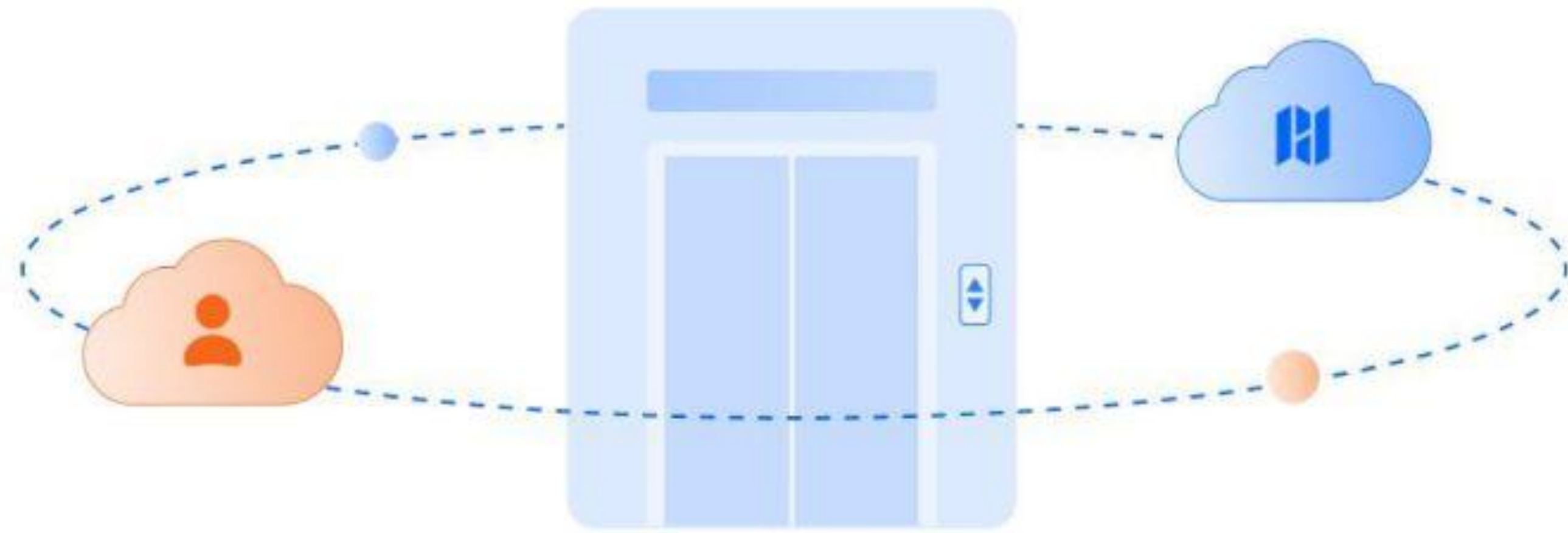
Product Features • IoT Technology



Leveraging IoT connectivity, the 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.

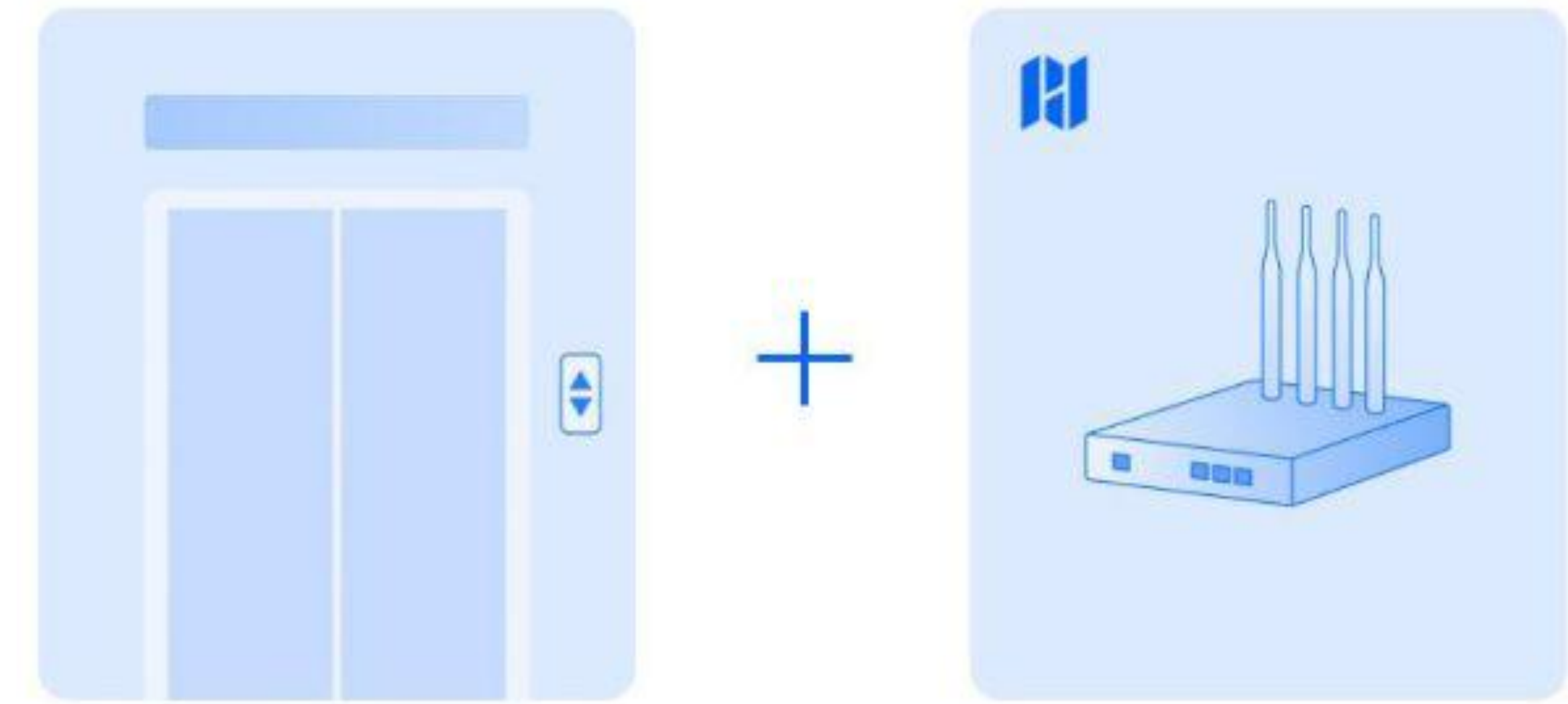


Product Features · Cloud & Hardware Solutions for Elevator Control



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.

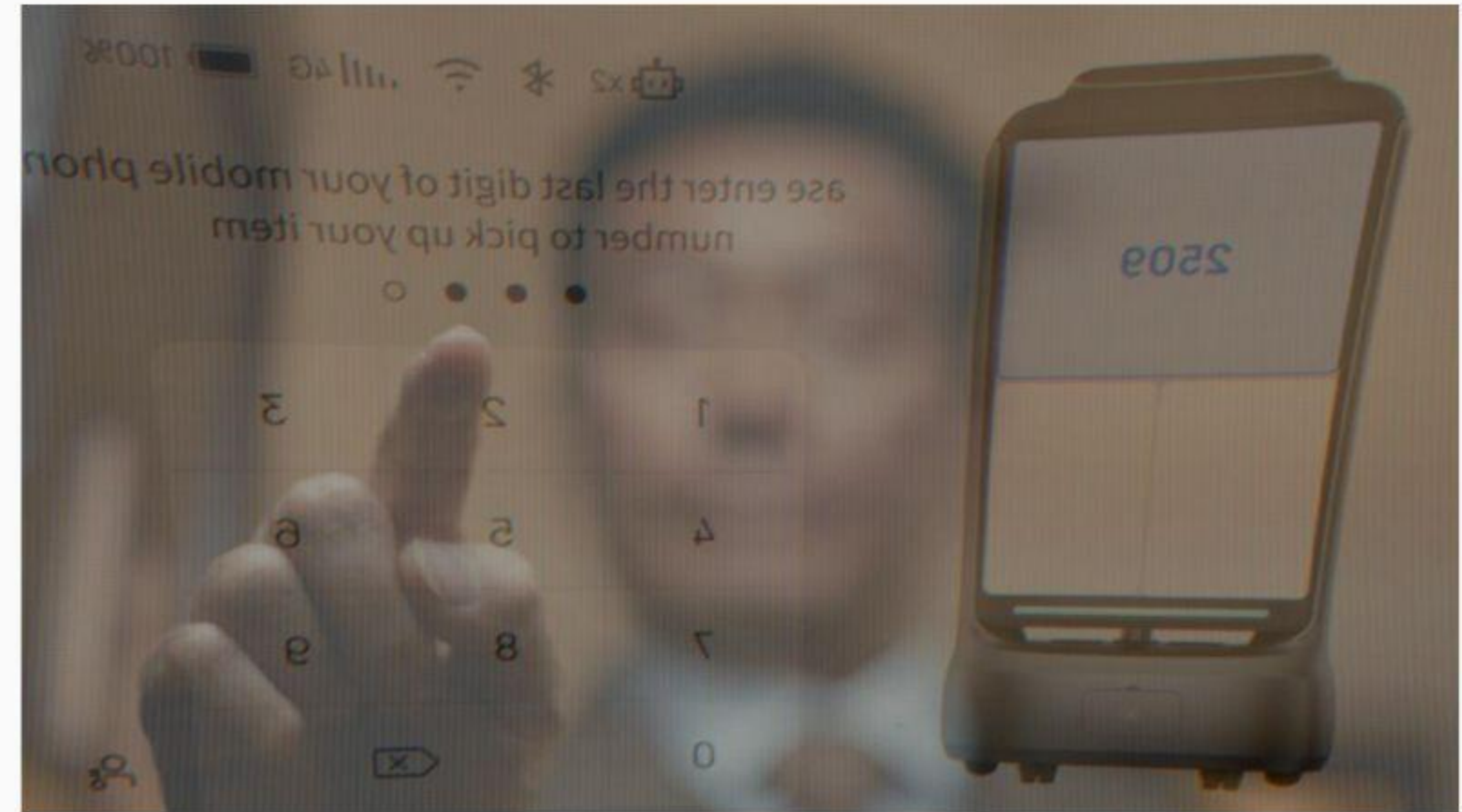


Hardware Elevator Control Solution

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.



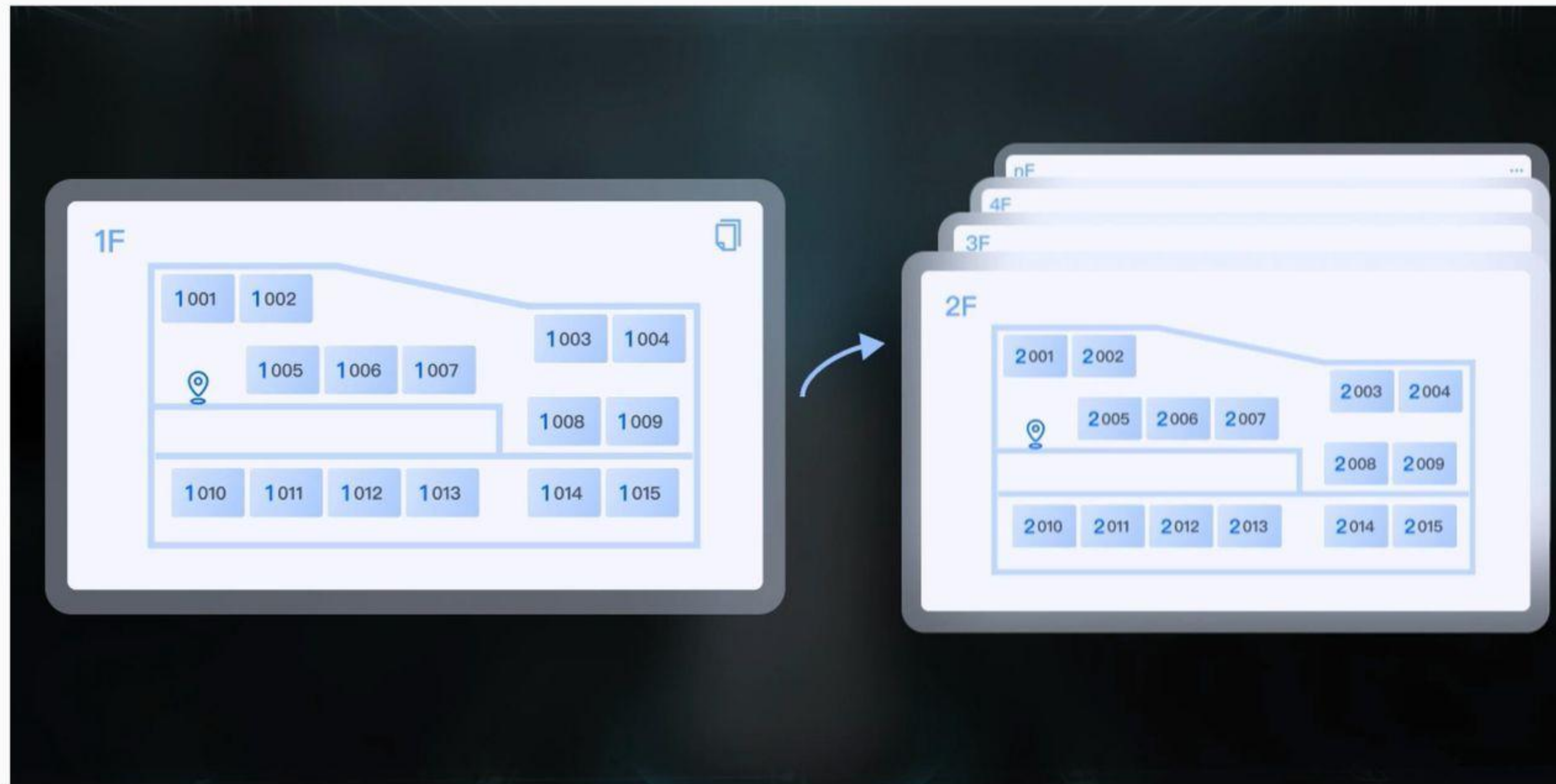
Product Features · Multiple Compartment Access Verifications



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 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 System

Continuous compartment fan ventilation eliminates odors and bacteria.



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

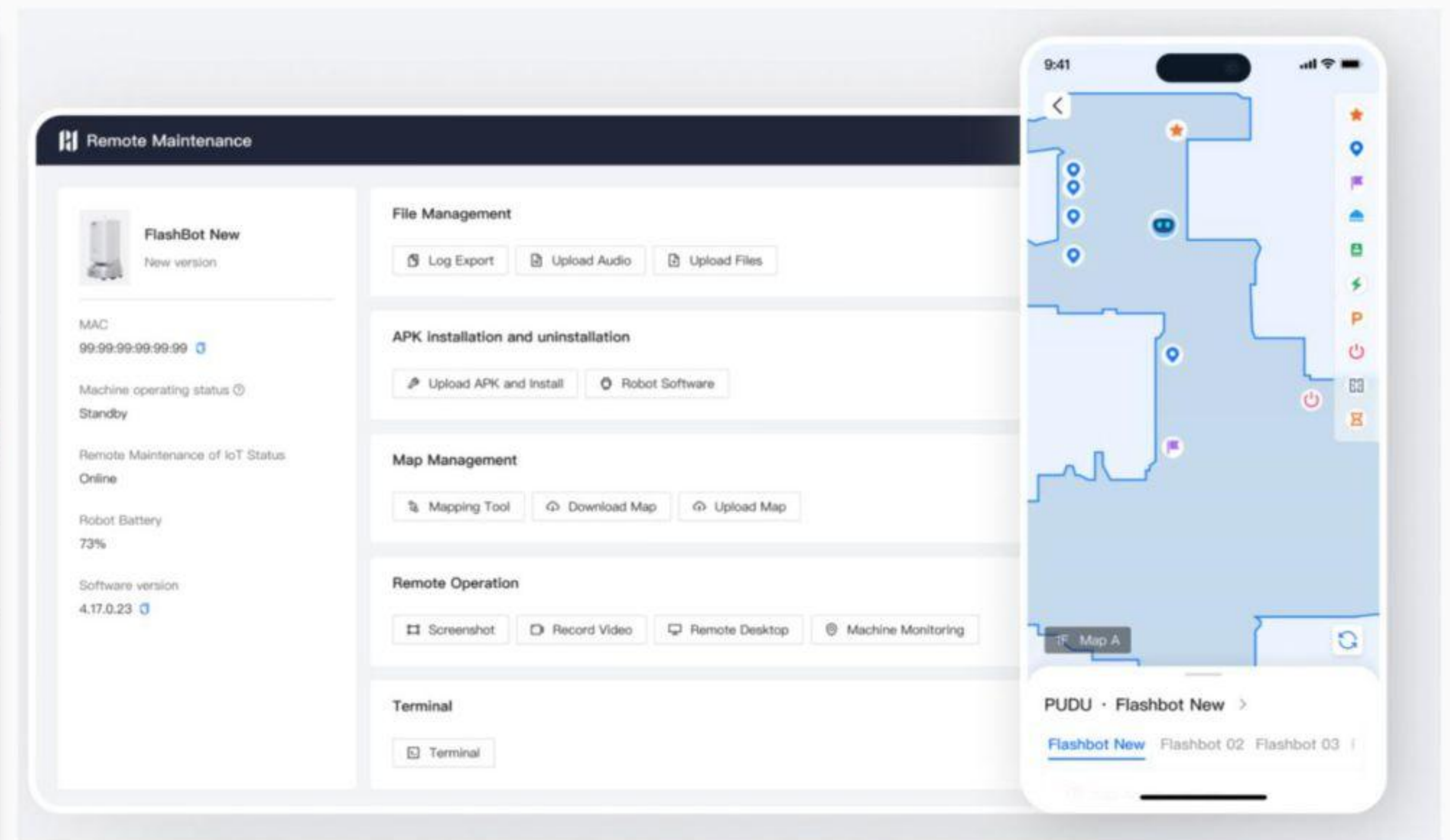
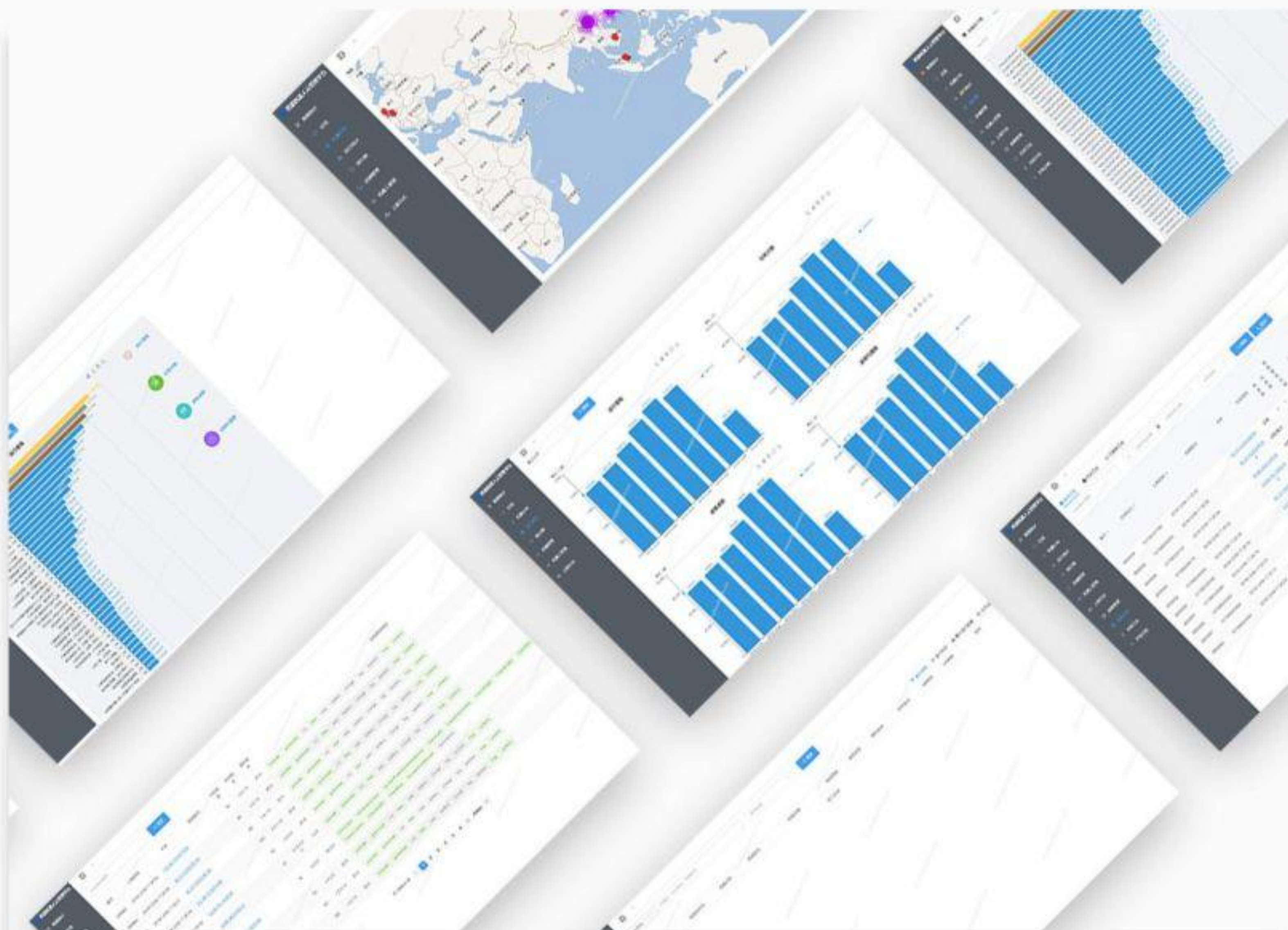
Seamless recharging in multiple scenarios for safety and convenience.
Heads to the charging station when battery is low to stay ready for action.



Product Features · Digital Management Transformation

PUDU Management Platform

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.





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Product Features

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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.



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About Pringle Robotics

Pringle Robotics

Leading the Way in Human-Robot Partnerships

Headquartered in Peoria, Illinois, Pringle Robotics is a developer of integrated robotic solutions for people-focused industries. We create service robots that help people work smarter, faster and with less stress so that they, in turn, can better deliver the high-value customer care that matters most.

All of our robots are designed from the ground up for autonomous operation, and natively built with the latest AMR operating system—never retrofitted. Our line of BoTs ranges from hosting, serving, dish bussing and delivery for the hospitality industry to cleaning, disinfection and secured delivery for complex, large scale facilities like hospitals and schools.

Our Mission

Pringle Robotics is a company on a mission to elevate people-focused industries for the benefit of all through practical automation.

Our Vision

Creating Autonomous Solutions that empower people and communities to be Productive and Safe. We believe in continuous innovation and integration with other platforms to build the most useful and flexible robots in the industry.

How Do Our BoTs Help Facilities?

Quite simply, by letting people do what they do best. In shifting time consuming and repetitive tasks to robots, human workers can focus on the higher-value work. This practical automation improves operational efficiency, lowers costs related to hiring and retention, and boosts satisfaction all around.

What Sets Pringle Robotics Apart?

We're just as committed to our customers as you are to yours.

While some technology providers focus on sales, we're focused on solutions. We approach each customer engagement as innovation-obsessed collaborators, committed to not only providing the widest and most versatile range of service robots on the market—but also backing them up with the industry's most comprehensive customer support. In-depth on-site training, unlimited virtual technical support and round-the-clock remote robot monitoring are standard components of our customer care philosophy.

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THANK YOU

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Contact us

