PuduBot1
1st Generation
Delivery Robot

A SMARTER **SOLUTION**

What solutions does PuduBot1 provide?

- Repetitive table serving
- Table bussing tasks for multiple scenarios
- Best-selling commercial service robot
- Boosting efficiency
- Dual Solutions : Laser SLAM and Visual SLAM

ADJUSTABLE TRAY
3*metal trays of 42*50cm

INTERACTIVE LIGHT STRIP
Clearer operating instructions

LIDAR
New generation radar
Anti-sunlight Lidar for
safer operation

GLOBAL AUDIO
High-fidelity audio up to
2*10WMore outstanding
sound effects

VISUAL POSITIONING
New visual solution
More precise positioning

ALL-ALUMINUM FRAME
Aviation-grade aluminum alloy
More stable structure

3D OBSTACLE AVOIDANCE
Newly added 3D vision sensors
Safer delivery

NEW SUSPENSION
Easily dealing with various
bumps on the road
More stable operation

Flexible Dish Cover

- Modular design
- Easy to install
- Contactless delivery
- Safer services

PUDU SLAM

PUDU SLAM is a new technology integrated SLAM solution based on Lidar, Camera, RGBD, IMU, Encoder and multiple sensors. This solution can ensure that the robot performs tasks more efficiently in a mixed environment

3D OBSTACLE AVOIDANCE

Compared to traditional 2D radar, 3D stereo sensors can quickly stereo model the surrounding environment, which can greatly reduce the probability of security accidents.

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Powerful, Smooth Control with Linkage Suspension

Pudubot1 has 6 wheels with well-designed independent suspension linkage system. This allows Pudubot1 to dealing with various bumps on the floor, with smooth and stable movement.

Super-Easy to Operate

Use-Friendly: With easy-to-use Graphic interface, PuduBot1 goes to work in just few tops on the screen. Multi-function and scenarios of operations for various types of users e.g. Direct & Multiple-delivery, Auto-Cruise mode, Happy Birthday.

Precise & Powerful Sensing

PuduBot1 uses integrated data from multiple sensors: Lidar, vision camera with sensor pointing up, and 2 Intel RealSense Depth Cameras located in the lower part of the robot. This allows the robot to avoid collisions and adapt to the changing environment like in restaurants, which changing environments.

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ENVIRONMENTAL PERCEPTION

The safety and obstacle avoidance performance have been greatly improved, and the probability of touching suspended objects or other blind spot obstacles has been greatly reduced, in addition to Lidar, multiple visual sensors are added to enable the robot to upgrade from 2D plane perception to 3D environment detection of the whole body.

PUDU SCHEDULER

PUDU SCHEDULER has adopted a decentralized, flexible ad hoc network communication scheme and algorithm architecture. Each robot can directly communicate with any robot in the same network, and quickly calculate and make decisions. Such design reduces the requirements for the network, reduces a central computing node that requires high computing power, and is closer to the interaction mechanism among people.

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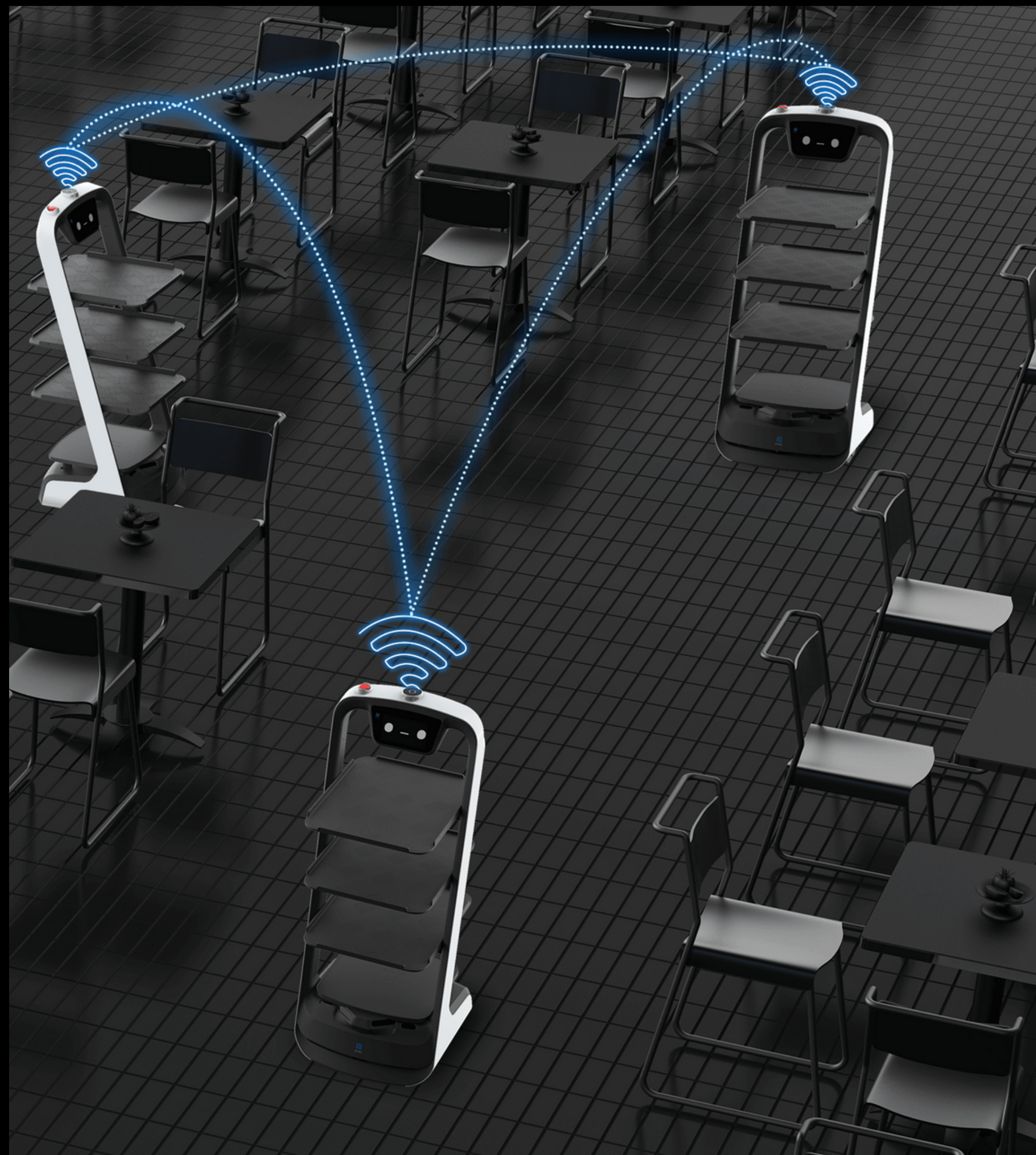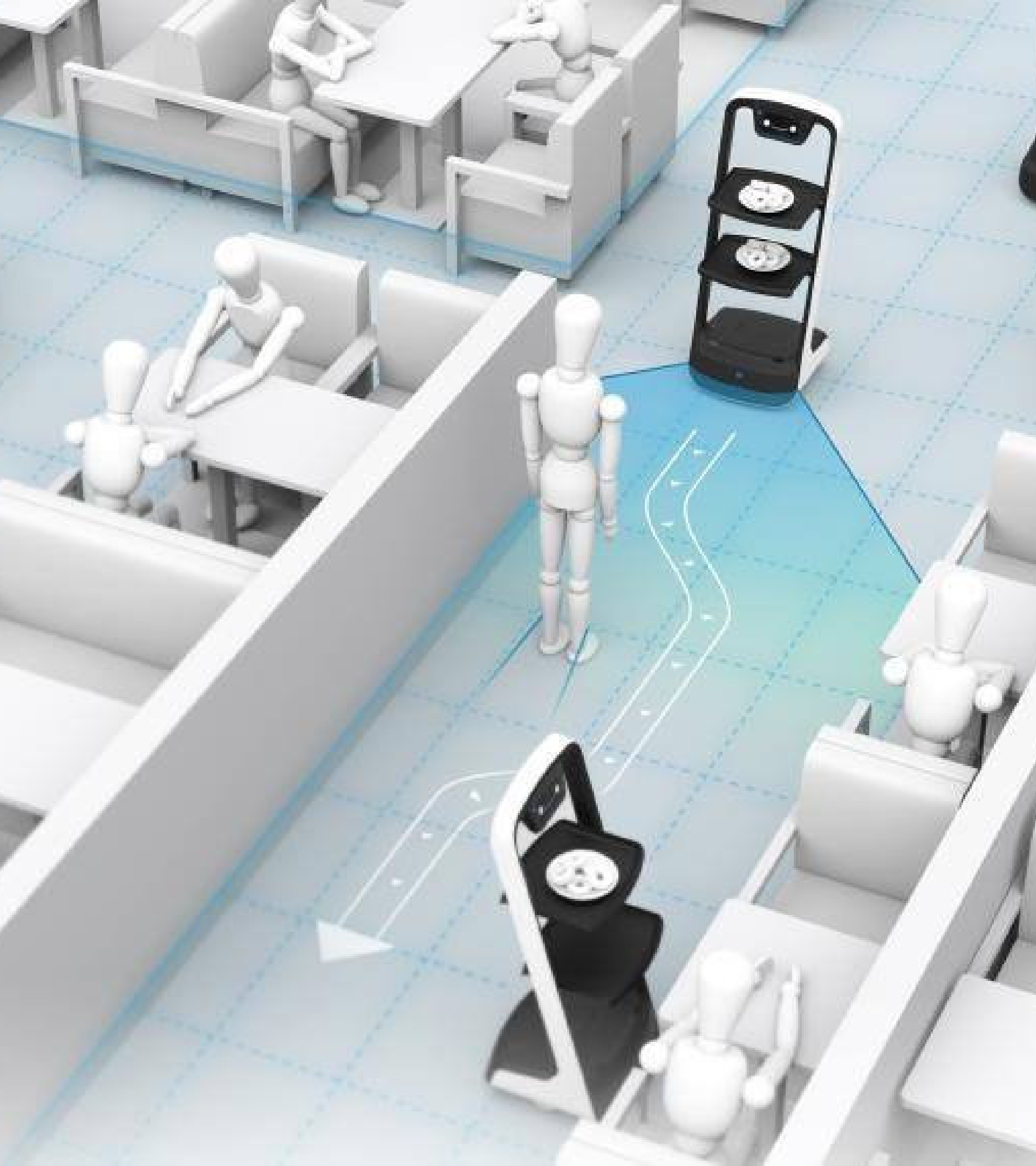
PUDU CLOUD

PUDU CLOUD platform provides a powerful cloud intelligent service support for Pudu robots, enabling smart catering, with specific functions such as: business management platform, automated operation and maintenance platform, scenario data collection platform, and cloud intelligent service platform.

Specification

Machine Dimension
20.3" x 19.7" x 50.7"

Machine Weight
77.1lb

Maximum Loads
66lb

Tray Size
16.5" x 20"

No. of Trays
Default 3

Delivery Modes
Delivery, birthday, cruise, and dish
return modes

Battery Duration
10-24h

Charging Time
4h

Min Passing Width
31.4"

Cruise Speed
0.5m/s - 1.2m/s
(Adjustable)

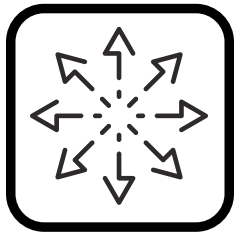**Charging Melhod**
Wire & Auto-charging

Features

All-inclusive Platform, Endless Capabilities

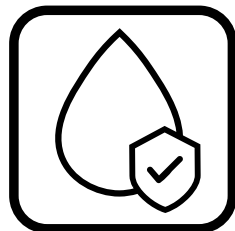Support third-party development, customization and expansion
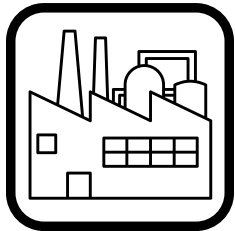
Multi-Industry Linkage

Including management in manufacture, retail, hospital & clinic. as well as entertainment & leisure
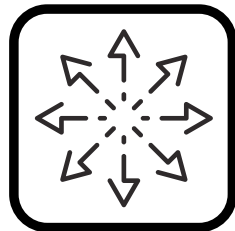
Outstanding Compatibilities

Support Type-C/4G/LoRa/Wi-Fi connection

Fully Enclosed Machine Design

Effectively resist dust and water
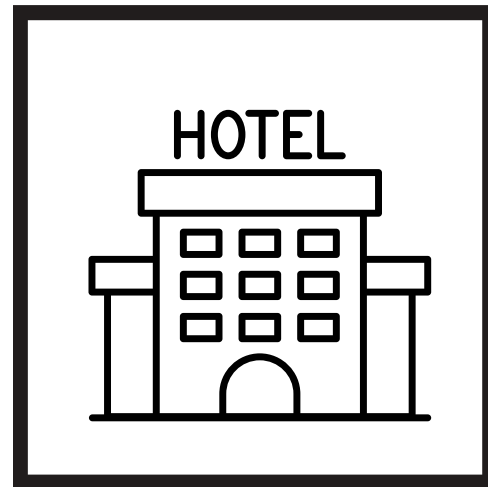
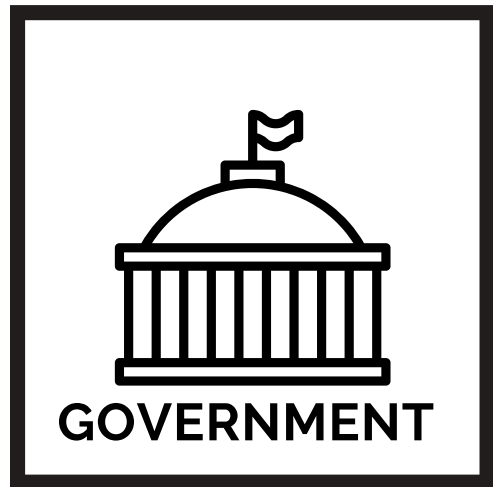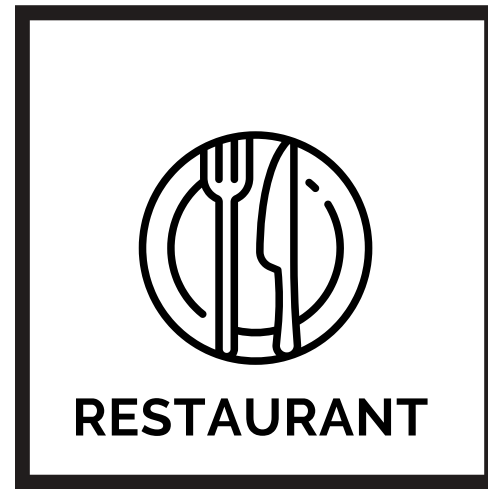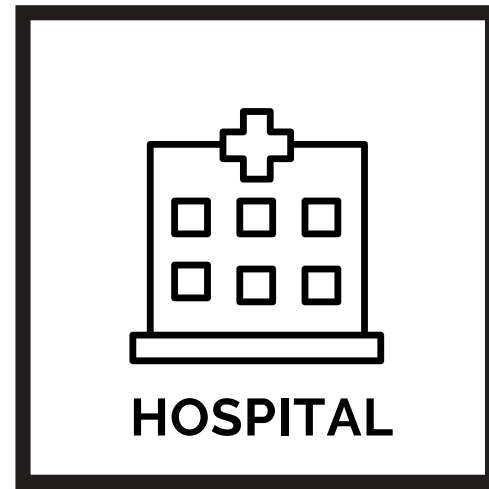**Simplified Deployment, Greater Adaptability**

Marker-less deployment reduces 75% deployment time without redecoration of ceiling and comforts with reliable operation even in high ceiling environment
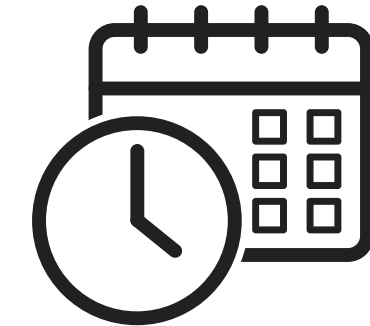
Various Delivery Modes, Diverse Delivery Scenarios

Support four delivery modes and easy switching as required, deeply meet the delivery needs of different scenarios

A SMARTER **SOLUTION**

The smart serving solution for a wide range of business

OFFICE

HOSPITAL

RESTAURANT

SENIOR HOME

GOVERNMENT

DAY CARE

HOTEL

SHOPPING

FAST INSTALLATION

Quick setup without the need to install separate ceiling markers.

SLAM AUTONOMOUS DRIVING

Built to navigate using the SLAM method that recognizes space with a 3D camera and LIDAR sensor.

Our Showroom

📍 Rutech Inc
3500 S. Morgan St.
2FL, Unit 216
Chicago IL 60609

✉ Admin@RutechUSA.com
Support@RutechUSA.com

🌐 rutechusa.com

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