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BellaBot Food delivery robot

BellaBot is the latest delivery robot product of PuduTech. It inherits the favorable features of its previous generation PuduBot, such as, the four layers large-size tray structure, highly precise positioning and navigating capability, excellent obstacle avoidance, stable and efficient scheduling system.

BellaBot shows breakthroughs in appearance design and humman-robot interaction as well, which make BellaBot a new type of "cute but powerful" delivery robot.



BellaBot

3D obstacle avoidance

3* Intel high quality RGBD vision sensors ensure safety of obstacle avoidance

All-aluminum frame

Aviation-grade aluminum alloy, stable structure

Lidar

New generation radar, efficient SLAM mapping

Visual positioning

The new visual solution, precise positioning

Sensor tray

BellaBot can sense the food been taken away and leave, realizing contactless delivery

Interactive light strip

Second generation smart lighting interaction technology, clear operating instructions

New suspension

Easily dealing with various bumps on the road, stable movement

Usage Scenarios

PuduTech has independently researched and developed its own robot positioning and navigating technologies based on multi-sensor strategy, BellaBot could be widely used in commercial scenarios like restaurants, hotels, nursing home and office buildings.



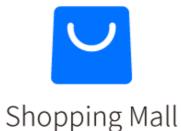
















Product Feature

Contactless delivery

Delivery expert and good helper

Extremely cute design

Multimodal interaction

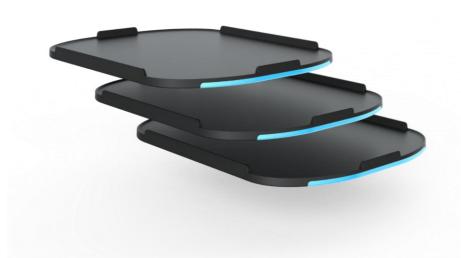
Safe & stable delivery

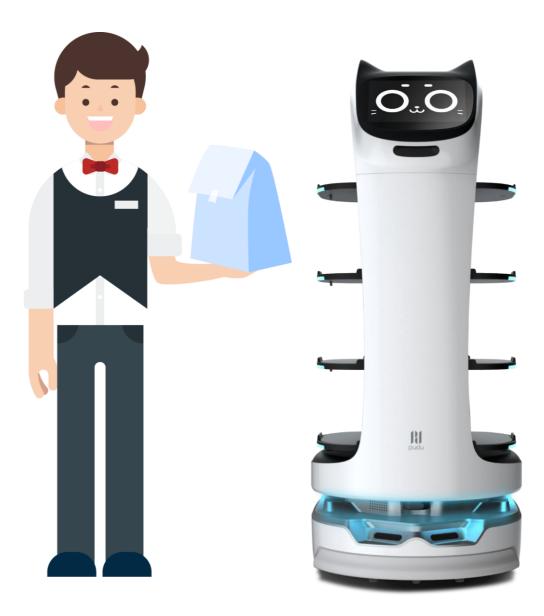
Contactless delivery

In restaurant, by using the robots to deliver food to customers, human to human contact is reduced, which avoids potential spreading of the virus during the outbreak of infectious disease.

Sensor tray

The tray can sense it immediately and confirm there's no dish on, th us to promote BellaBot to automa tically go on with the next delivery task.

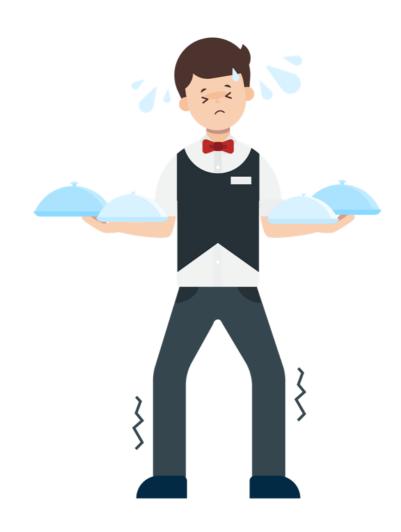






Delivery expert and good helper

BellaBot can achieve 400 times of food delivery per day, which frees waiters from repetitive work of food delivery so that they have more time to focus on serving the customers.







Extremely cute design

BellaBot takes the popular pet cat as a prototype in appearance design, and reinterprets the overall shape based on the original multi-tier large tray structure, so to make the new generation of robots seem more mild and easy-going both from visual and touching feeling.





Multimodal interaction - Don't pick up your food wrong

Voice interaction

The intelligent AI voice system can realize full-link voice capabilities, that means you are able to communicate with Bellabot.

Furthermore, when Bellabot takes the food to the table, she will tell you to pick up your dishes from corresponding tray.



Light interaction

Different task states
trigger corresponding
light effect interactions.
When BellaBot arrives to
the table with meals, the
tray with lamp belt
flashing indicates to
customers don't pick up
your food wrong.









Multimodal interaction - A CAT with emotion

Touch a cute cat

BellaBot is designed with an advanced tactile feedback system, which enables the robot to give out different responses when it is touched on the head or ears.



(Bella in TVC is only for reference)

Vivid expression

The display on the head is not only the main panel for waiters to operate, but also displays dozens of smart expressions such as happy, sad, lazy, or angry during work, thus to let customers feel the "emotions" of the robot.





Safe & stable delivery

3D obstacle avoidance-Ensure safety

- 3* INTEL® REALSENSE™ RGBD sensors enable robot to detect obstacles precisely
- Stop immediately when confronting obstacles

Minimum height of object detection is 20cm

Obstacle detection frequency up to 5400 times per minute

Front detection angle up to 192.64°

Front obstacle detection range exceeds 10m







Safe & stable delivery

Independent interlinked suspension

BellaBot has an independent interlinked suspension which ensures that food delivered will not be damaged and liquid delivered will not splash out.





Safety certification

BellaBot can meet the requirement of certification, FCC certification and FDA certification, CR (China Robot Certification) certification, CK certification













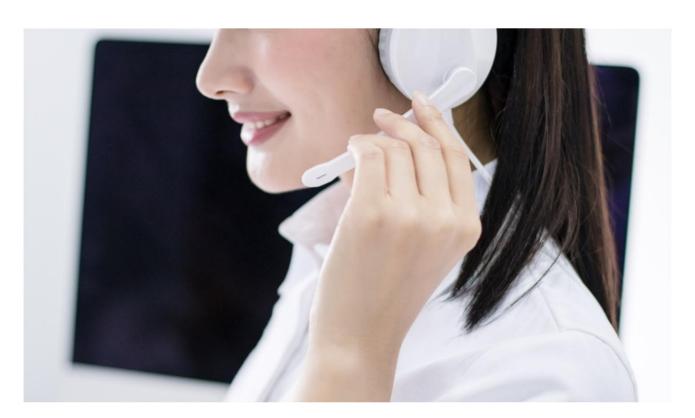
Product specification

Machine size	565×537×1290(MM)
Machine weight	59Kg
Machine material	ABS/Aviation-grade aluminum alloy
Charging time	4H
Battery lifetime	7×24H (exchangeable battery)
Cruise speed	0.5-1.2m/s adjustable
Tray load	10Kg/layer



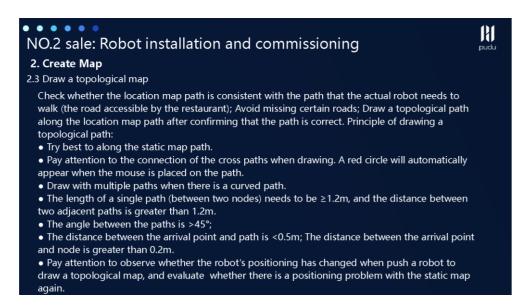
Supporting services

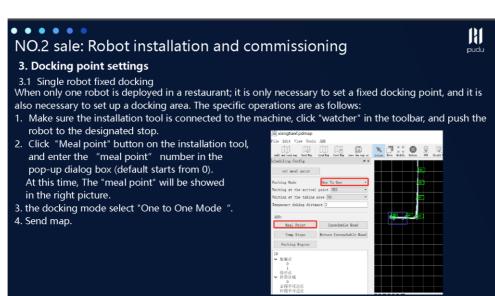
- Installation training
 Rich and diverse
 training methods and
 materials
- After sales service
 IOT (The Internet of things) solves more than 90% of technical problems

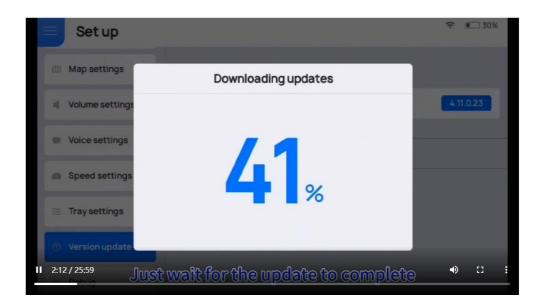


Installation training - Rich and diverse training methods and materials

With a strong after-sales technical team, Pudu can not only support online installation training worldwide, but also provide rich and diverse training materials.



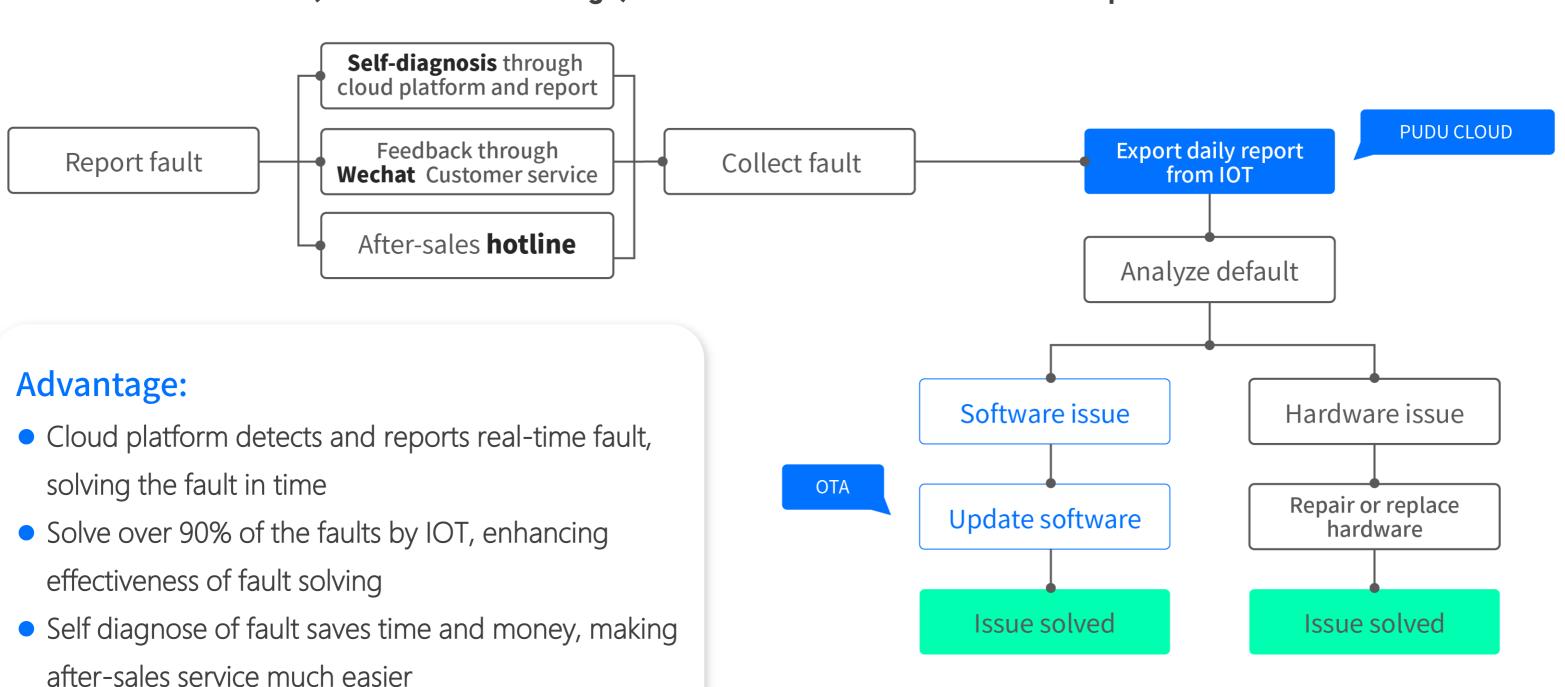






After sales service

IOT (The Internet of things) solves more than 90% of technical problems





Established in 2016, Shenzhen Pudu Technology Co., Ltd. is a **National High-tech Enterprise** that is devoted to **R&D**, **design**, **manufacture and sales** of delivery robots, with headquarter in Shenzhen, the city globally famous for innovative hardware, and R&D center in Beijing and Chengdu along with branches and service center in over 60 cities in China.

The core technology of Pudu is low speed autopilot, robot motor driver and motion control. Our main products are delivery robots which are widely used in restaurant, hotel, office building, hospital, Internet cafe and Karaoke. Our products are sold in over 200 cities in more than 20 countries with a wide range of customers from Hidilao Hotpot, JD , Woowa Brothers, HomePlus, Bytedance, LG to Sheraton hotel. In 2019 alone we have sold over 5000 sets of robotics.

Thankyou

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