

A white and yellow KettyBot robot is shown in a kitchen setting, holding a tray of food. The robot has a white body with a yellow stripe and a black top. It is holding a white tray with a wooden steamer basket containing various food items like lettuce, tomatoes, and corn. The background is a blurred kitchen with a person in a white shirt.

# ***KettyBot***

**Flexible Multitasker**

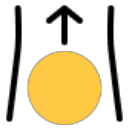
# KettyBot

KettyBot is Pudu Technology's first delivery & reception robot that can perform several tasks --marketing, delivering, guiding at the same time. As a cost-effective and high-efficient product, KettyBot delivers a state-of-the-art experience in multiple complex scenarios.

- A minimize clearance of 55cm
- Walking AD display with 18.5" screen
- Easy deployment
- Work continuously for 8 hours



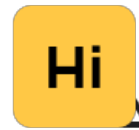
# Product Introduction



Superior Mobility



Customized Advertisement



Customer Attraction



Greeting & Escorting



AI Voice Interaction



Multiple Delivery Modes



Automatic Recharging



Automatic Task Setting

# Product Introduction



## Three Key Advantages

### **Multiple Applicable Scenarios**

With a compact, stylish design, complex and dynamic environments can be easily navigated

### **In-store Marketing**

A robot with a 18' LCD screen, may display your ads to more audiences while strolling in store

### **A Versatile All-rounder**

Meeting a wider range of needs and conducting tasks at the same time with improved adaptability, safety and accuracy, and an ultra-long battery life

## 3D Obstacle Avoidance Sensor

Two sets of RGBD cameras on the neck and the chassis form a 3D obstacle avoidance

## 18.5" Large Ad Screen

In-store marketing with a large ad display

## Laser SLAM

Laser SLAM and visual SLAM dual-SLAM solution

## Independent Suspension

Auto-level independent linkage suspension system with high-efficiency on bump avoidance

## Visual Camera

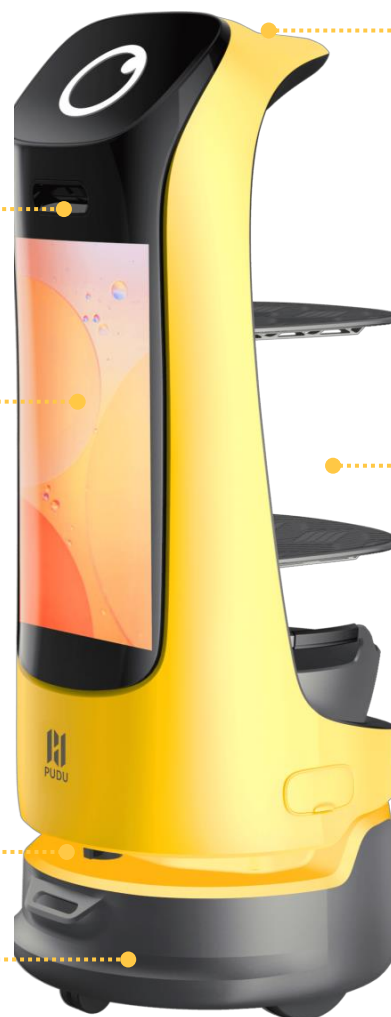
The infrared camera on top of KettyBot provides real-time V-SLAM positioning and navigation

## Multi-functional Compartment

Two trays and a collecting box cooperate with each other to meet a variety of usage scenarios

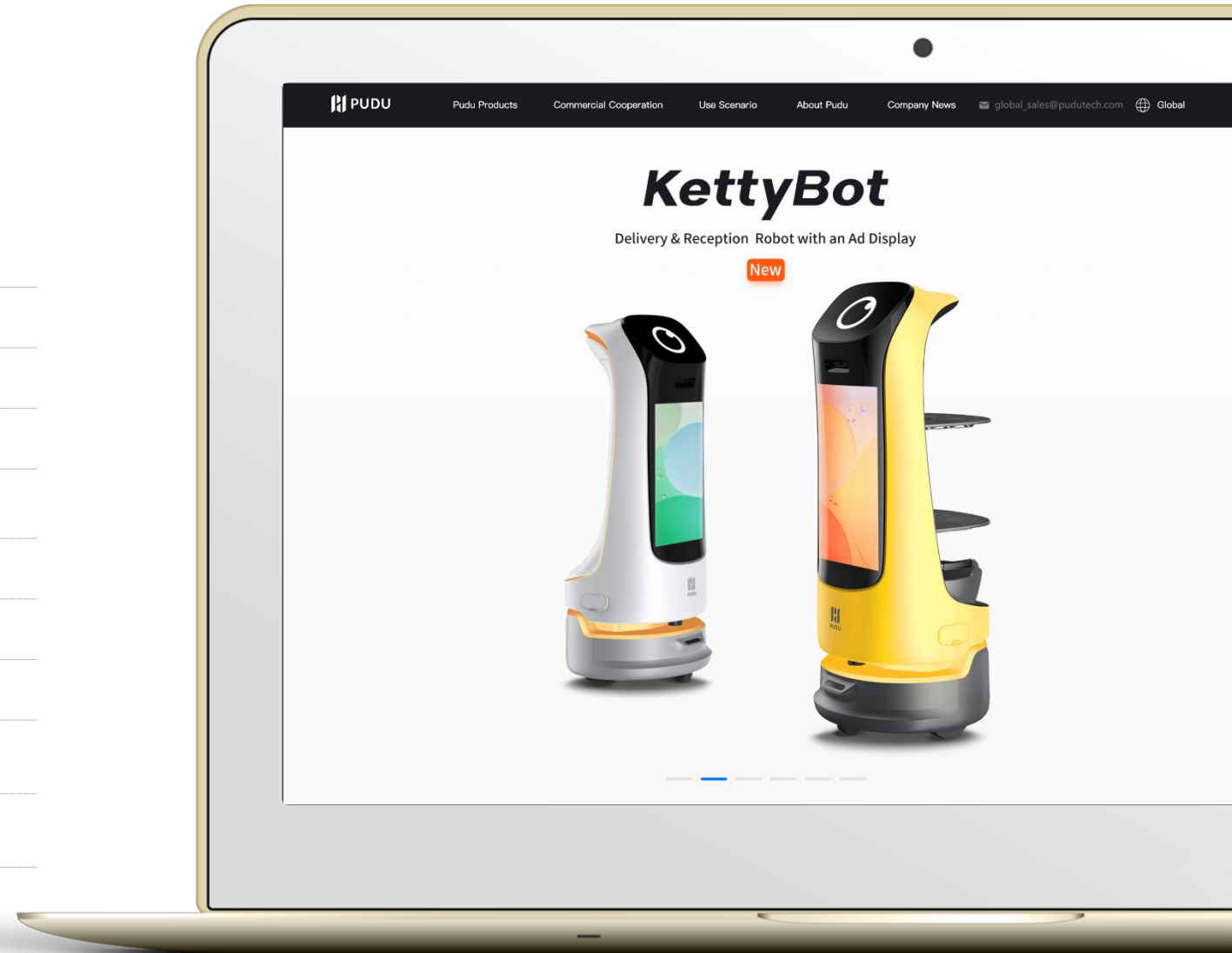
## The Removable Rear Cover

KettyBot features two forms enabled by the removable trays and rear cover



# Product Specification

Machine Dimension	435*450*1120mm
Machine Weight	38KG
Carrying Capacity	30KG
Battery Capacity	25.6Ah
Battery Life	>8h
Cruise Speed	Max 1.2m/s
Charging Time	4.5h (Automatic Recharging)
Obstacle Negotiation Height	Max 7mm
Crossing Width	≥55cm
Climb Angle	≤5°



# Multiple applicable scenarios

With a minimize clearance at **55 cm**, KettyBot is specially designed for complex and dynamic environments.



Powered by PUDU advanced SLAM algorithm, KettyBot supports laser and visual dual SLAM positioning in order to adapt to more scenarios.  
2\* RGBD depth camera, provide KettyBot with the strongest 3D perception.  
Intelligent route planning, the optimal route to perform tasks is selected based on the operating environment.

**Meeting the needs of different complicated scenarios:  
restaurants, cafes, bars, barbecue shops, hotels, gyms, hospitals etc.**

# In-store Marketing



## 18.5" Large Ad Display

- The 18.5" large ad screen can display promotional video or pictures, providing a more eye-catching approach for marketing.
- Centered ad display perfectly adapts to the customer's angle of view, while maintaining the design aesthetic of the robot.
- KettyBot is not only attractive to adults but also to children, making it ideal to impress the whole family.



# In-store Marketing

## Customized Advertisement

- PUDU Business Management Platform offers the flexibility to customize the content presented on the ad display
- The ad playlist can be easily generated, with customer-defined frequency and the sequence of the ads



# A Versatile All-rounder

## Two Forms for Greater Versatility

KettyBot features two forms enabled by the removable trays and rear cover\*. Our customer may select the form of robot based on needs.

\*The rear cover needs to be purchased additionally.



# A Versatile All-rounder

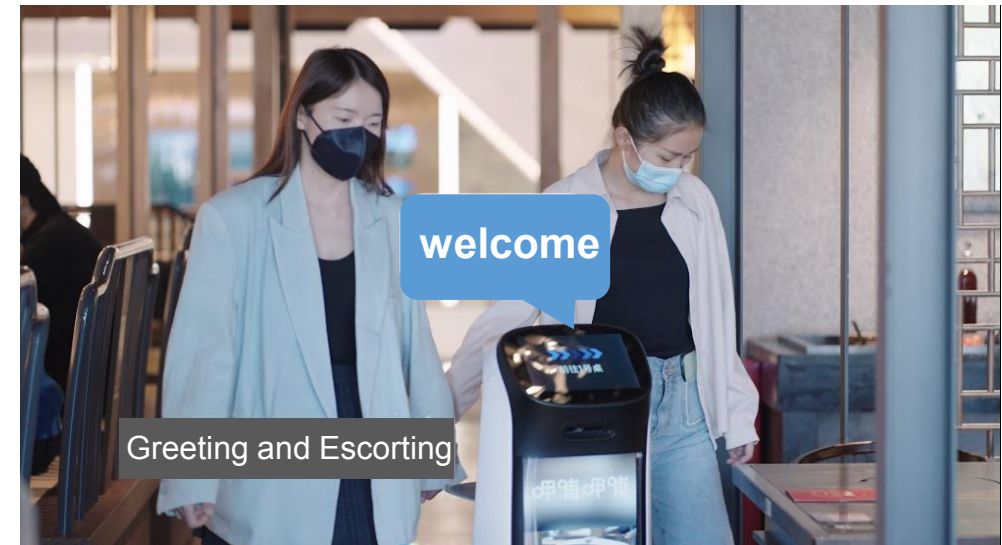
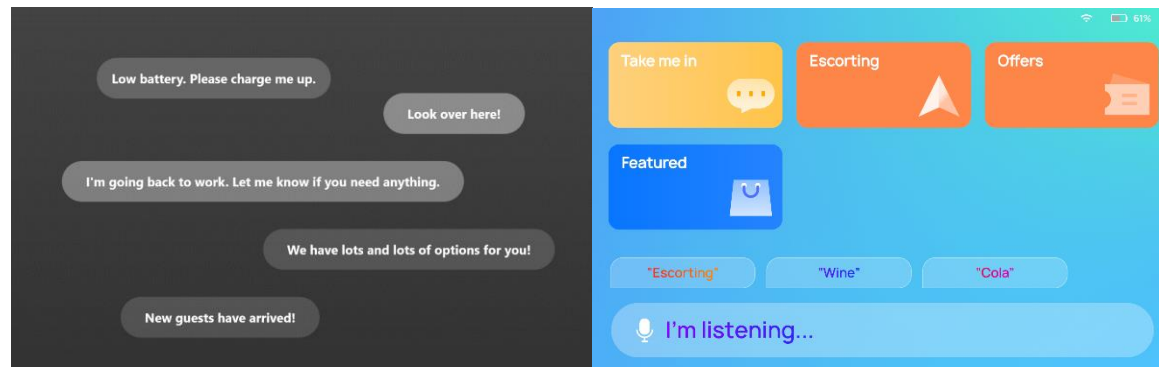
## Customer Attraction

### Enhanced Voice Interaction

- The new voice interaction module integrates 360° sound localization.
- Exclusive situational dialogues with cutting-edge echo cancellation, noise suppression, and reverberation elimination technology.
- Say the word "hey pudu" to wake-up AI voice interaction
- Support a variety of human-robot dialogues

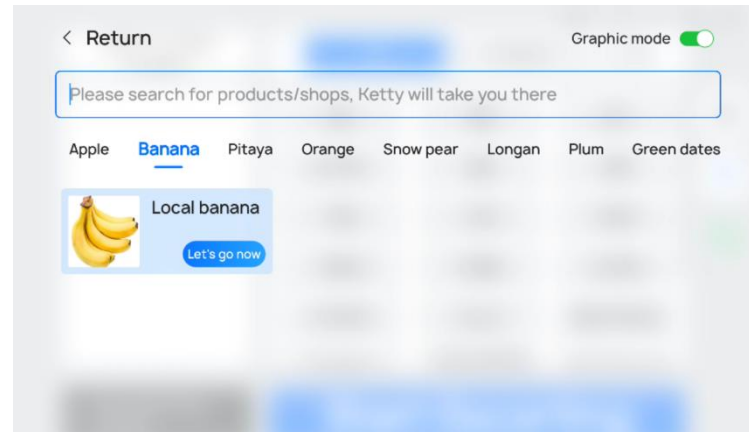
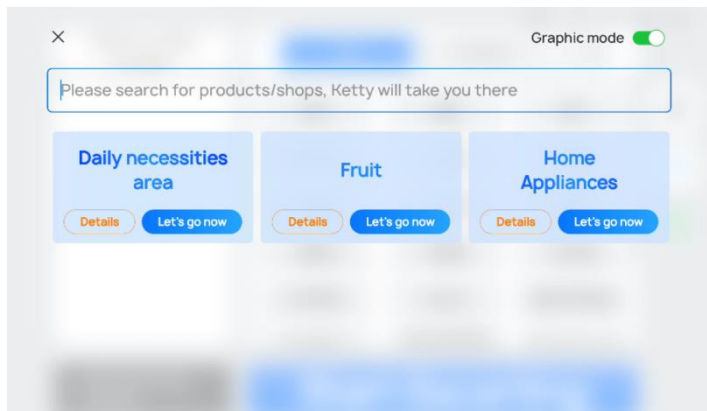
## Greeting & Escorting

- The rear cover of KettyBot features a minimalist, streamlined design that makes it more compact.
- With autonomous path planning, the robot can lead customers to their tables in the optimal path, providing improved customer experience and reducing waiter workload



# A Versatile All-rounder

## New Guiding Mode: Search & Guide



- By searching words or clicking pictures, customers may look for the items or the store location they need, then KettyBot will guide them to pick up point or stores.

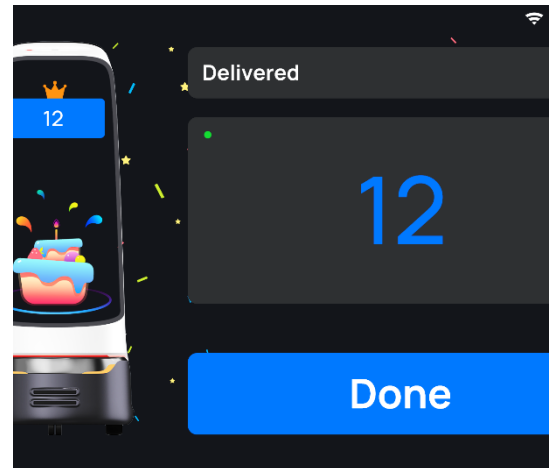
**Make it easier for customers to use KettyBot.**

# A Versatile All-rounder

## Multiple Delivery Modes

### Multi-table Delivery

Multiple tables can be served in one run with accurate positioning and optimal path planning.



### Birthday Mode

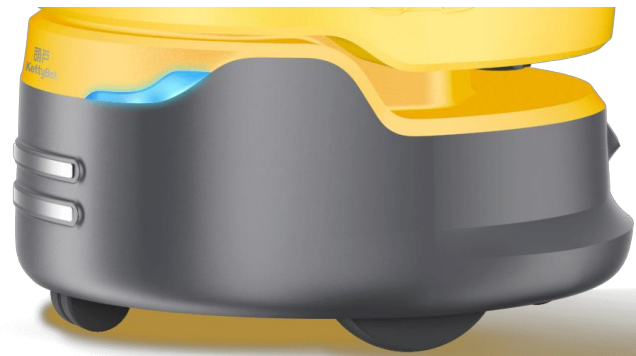
KettyBot can deliver birthday cakes and sing birthday song, giving customers a strong sense of happiness and satisfaction.

### Cruise Mode

KettyBot can cruise in specific areas to provide customers with free snacks, drinks and promotional flyers.



# A Versatile All-rounder



## Stabilized Delivery

- Upgraded automobile-level adaptive suspension with latest shock absorbing technology, greatly improves the stability of the robot's delivery, and supports the robot to deliver dishes with food decor, porridge, soups and drinks while reducing spills.
- KettyBot can deliver more varieties of meals and beverage.

# Ultra-long battery life

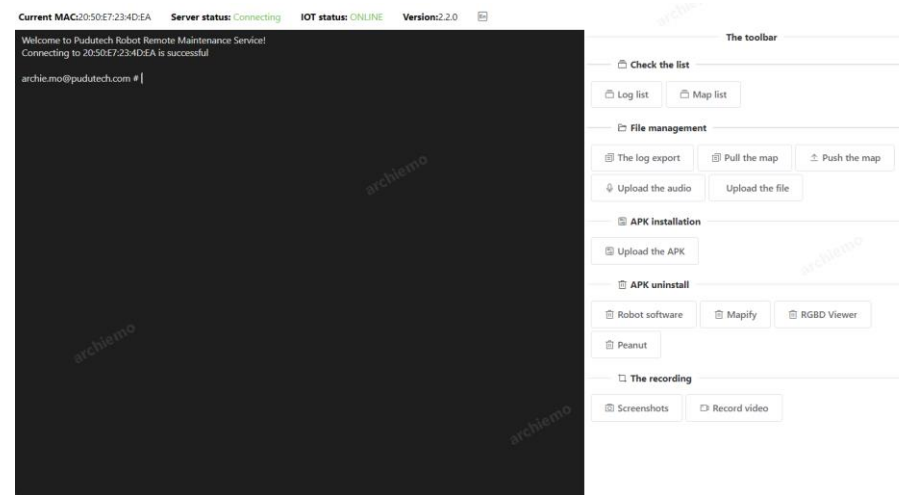
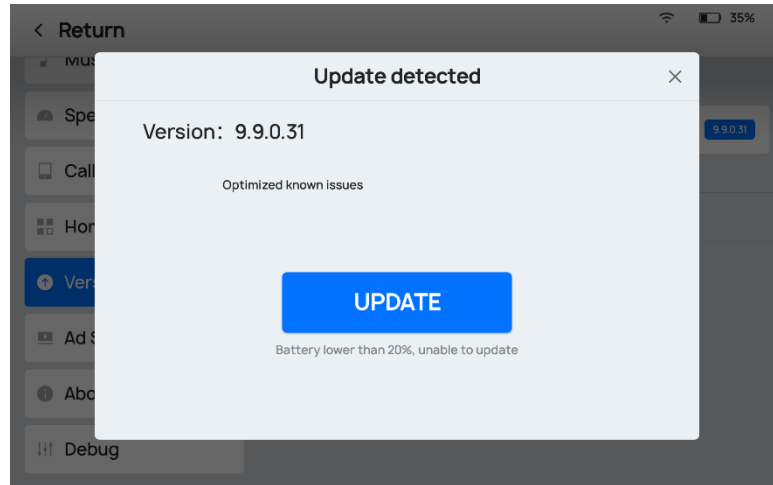
Ultra-long battery life for all-day-long service.

- Battery Capacity: 25.6Ah
- Battery Life: **>8H**
- Automatic Recharging: KettyBot automatically provides a voice alert and UI notification when the battery is low, and returns to the docking station\* simultaneously.

\*The docking station needs to be purchased additionally.



# Easy Maintenance



- Remote Upgradation Supportive, Users can quickly obtain software updates to instantly improve robots ' performance.
- Intelligent Fault Analysis and Trouble-shooting, Cloud Management and Maintenance , make us can quickly respond to customer problems and solve them, and provide after-sales service remotely

**Reduce maintenance time, Improve efficiency, Reduce maintenance costs**



# Media Coverage

## Companies urged to test new business models

**FORMAT**  
 sales about 11 per cent of Singapore's gross domestic product and employ about 25 per cent of the country's workforce.

"Covid-19 has accelerated digital adoption for many of our F&B companies. No one could still remember this as recently as the launch of the Central Business District and its catering companies, all of which are now being heavily tested."

Mr Chan noted that from January to October, the number of applications for the Production Safety Certificate (PSC) in the F&B sector of the same period last year.

He also noted that more than 2,000 new applications for PSC solutions have been approved to date.

"Since Covid is an example of an F&B company that adapts quickly during the current crisis by going into a new business model, it is a good example for other F&B companies to follow."

These efforts increased to reduce food delivery significantly, from 10 per cent pre-crisis to 20 per cent during the current crisis.

With the increased revenue from food delivery, some 20 per cent of these shops' monthly revenue is added.

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**Minister for Trade and Industry Chan Chun Sing** today said that with the help of the Singapore Food Agency, third-generation owner Ernest Tang has used the Covid-19 crisis to test new business models.

Ernest Tang said that his company, the Food Innovation and Research Centre, a joint initiative between Singapore's Food Agency and the Singapore Food Agency, is testing new business models.

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## NEWS

### Tech

# CES 2020: Restaurant cat robot meows at dining customers

06 January 2020



## Робот за \$12 000: «Шоколадница» тестирует роботов-официантов

Татьяна Романова Forbes Staff



С 30 октября роботы-официанты работают в двух кофейных сети «Шоколадница». Пандемия добавляет популярности такому способу обслуживания.

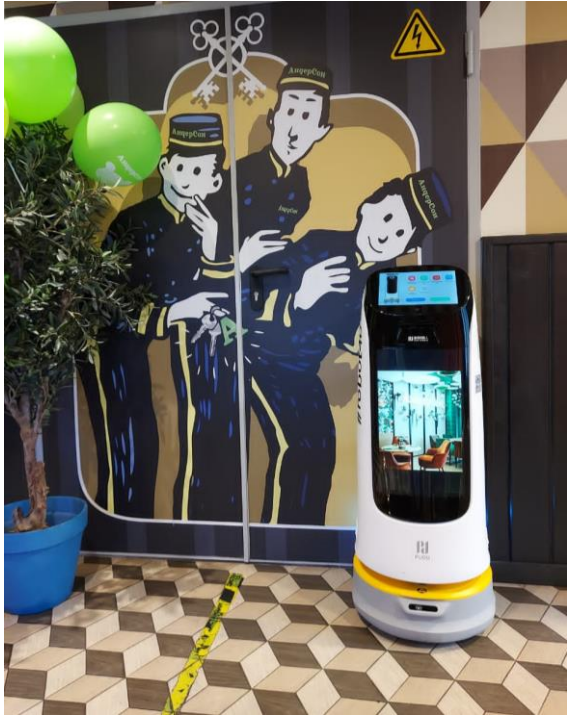
Обслуживать гостей двух кофеен «Шоколадница» будут роботы-официанты.



НОВОСТИ, КОТОРЫЕ УДАРЯТ ПО ВАШЕМУ КОШЕЛЬКУ

В НАШЕМ КАНАЛЕ

# Case Study



# Customer Value



**A differentiated experience to attract more customers**

KettyBot redefines customer experience with an eye-catching way to attract customers and a smart, thoughtful way to serve them.

**A novel approach for in-store marketing**

KettyBot allows your marketing campaigns and special offers to reach more customers, delivering a higher conversion.



# Customer Value



## Robot-human collaboration to improve service and efficiency

Human workers collaborate with KettyBot in a way that they can both do what they are best at.

KettyBot is ready to assist and improve humankind working experience.

## Manpower shortage is no longer a problem

Multiple delivery mode can well assist stores in completing tasks such as food delivery , and delivering snacks, which will free up human workers from dull and duplicate tasks.



# Customer Value



## One robot for multiple needs

As a multitasker ,KettyBot can perform several tasks --marketing, delivering, guiding at the same time, assisting from front-end to back-end, meeting the propaganda and delivery needs of restaurants, cafes, bars, barbecue shops, hotels, hospital etc.

## Unified management & IoT platform

Users can manage different models of Pudu robots simultaneously and analyze the operation of the robots through Pudu management platform.

