

# T10



## Key Features

- **High Load Capacity:** T10 boasts a maximum load capacity of 40Kg, accommodating multiple orders with ease, thanks to its four spacious trays.
- **Extraordinary Moving Ability:** With a minimum path width requirement of just 58.5cm, T10 navigates narrow spaces, making it versatile for various environments.
- **Intelligent Self-Pickup Experience:** T10's plate detection sensors, tray indicators, voice prompts, and visual guidance streamline self-pickup while offering interactive feedback for a seamless customer experience.
- **Advertising Capabilities:** Equipped with a 23.8-inch 1080P advertising screen and two advertising modes, T10 transforms into a powerful marketing tool to engage customers.
- **New Guidance Mode:** T10 guides customers to their destinations and returns to the start point autonomously, making it ideal for restaurants, hotels, airports, and more.
- **Enhanced Safety :** T10 incorporates four stereo vision sensors for enhanced safety and obstacle avoidance, setting new standards for food delivery robots.
- **Interactive Feedback:** T10 offers interactive feedback through nods and headshakes, enhancing customer engagement and reinforcing correct actions.
- **Intuitive Operation Screen:** Featuring an 11.6-inch 1080P operation screen, T10 provides a user-friendly interface for easy interactions.
- **Sensor Fusion:** T10 features an advanced VSLAM sensor for markerless deployment and precise navigation through sensor fusion with LiDAR, expanding its versatility.

## Specifications

### Performance

Maximum Coverage Area per Device	200 x 200 m <sup>2</sup>
Minimum Passage Width	58.5 cm
Moving Speed	0.1~1.0 m/s adjustable
Braking Distance	70 cm(Moving Speed 0.8 m/s and Full Load on dry road)
Slope Angle	≤ 5°
Battery Life	9h – 12.5h
Service Life Circle	20000h
Multi-robot Collaboration	Maximum 20 robots
Multi-point Delivery	Up to 20 tables(Single journey)
Intelligent Obstacle Avoidance Maximum Detect Range	≤1.5 M

### Environment

Obstacle Climbing Ability	Blank
Operating Temperature and Humidity	0 - 40°C, RH: 20% - 80%
Operating Environment	Indoor environment, flat ground, no dust

## Battery and Charging

Battery Type	Lithium iron phosphate battery
Battery Capacity	DC25.6V, 28.5Ah
Battery Dismountable	No
Charging Mode	Automatic charging with the bundled charging pile and manual charging by recharger
Charging Input	100-240V~,50/60Hz
Charging Time	5.5h with Charging Pile and 4h with recharger
Charging Pile Dimension	305*220*146mm
Charging Pile Weight	2.4Kg

## Hardware

Machine Material	ABS and aluminum alloy
Positioning Method	Sensor Fusion(LiDAR and VSLAM Sensor)
Positioning Accuracy	Centimeter grade
Sensors	LiDAR, Stereo Vision Sensor, VSLAM Sensor, IMU(Inertial Measurement Unit)
Sensor Coverage	Lidar detection range: 240°, <=25 m; Stereo Vision range: 300°, <=1.5 m; VSLAM Sensor, ceiling height required 2-6 m
Network	Wi-Fi: 2412-2472MHz, max 17.73dBm; ESP01: 2412-2472MHz, max 17.65dBm
Memory and Internal Storage	2GB RAM + 16GB ROM
Touch Screen	11.6inch(1920*1080)
Advertisement Screen	23.8 inch(1080*1920)
Interactive Ability	Light/Touch/Voice Prompt

## Measurements

Robot Dimension(W x D x H)	486 x 555 x 1399mm
Robot Weight	60 Kg
Layer Amount	4
Space of Each Layer(W x D x H)	First layer: 485 x 410 x 240mm 2nd layer: 485 x 410 x 215mm 3rd layer: 485 x 410 x 205mm
Tray Access	Open access
Load Capacity	40Kg(10Kg for each layer)


## System and Function

System	Linux(Control) & Android(Interact)
App Language	Chinese, English, Japanese, Korean
App Functions	Food Delivery, Multiple Delivery, Dish Return, Greeting and Escort, Celebration
Expression	5 types
Voice Reminder	Different voice prompt in different working mode and general operation.


## Official Standard and Optional Parts

Package Contents	Robot*1, Silicone Pad*4 , Battery Recharger*1, Charging Pile*1, Product Manual*1
Robot color optional	White

## Package Content




Silicone Pad\*4




Battery Recharger\*1

\*The actual recharger may be different.



Charging Pile\*1



Product Manual\*1

## Main Unit and Dimension

