

T10



Key Features

- **High Load Capacity:** T10 boasts a maximum load capacity of 40kg, accomodating multiple orders with ease, thanks to its four spacious trays.
 - **Extraordinary Moving Ability:** With a minimum path width requirement of just 58.5 cm, T10 naviates 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:** Equiped with a 23.8-inch 1080P advertising screen and two advertising models, T10 transforms into a powerful matketing 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 interaction.
- **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 × 200 m ²
Minimum Passage Width	58.5 cm
Moving Speed	0,1~1 m/s (adjustable)
Braking Distance	70 cm (Moving Speed 0.8 m/s and Full Load on dry road)
Slope Angle	≤ 5°
Battery Life	9–12.5 h
Service Life Circle	20000 h
Multi-robot Collaboration	Maximum 20 robots
Multi-point Delivery	Up to 20 tables (single journey)
Intelligent Obstacle Avoidance Maximum Detect Range	≤1.5M

Environment

Operating Temperature and Humidity	0–40 °C, RH: 20–80%
Operating Environment	Indoor environment, flat ground, no dust
Storage Temperature	-15°C–45°C, RH: 20–80%

Battery and Charging

Battery Type	Lithium iron phosphate battery
Battery Capacity	DC 25.6 V, 28.5 Ah
Battery Dismountable	No
Charging Mode	Automatic charging with the bundled charging pile and manual charging by recharger
Charging Input	100-240 V ~, 50/60 Hz
Charing Time	5.5 h with Charging Pile and 4 h with Recharger
Charging Pile Dimension	305 × 220 × 146 mm
Charging Pile Weight	2.4 kg

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: 2412-2472 MHz, max 17.73 dBm; ESP01: 2412-2472 MHz, max 17.65 dBm
Memory and Internal Storage	2 GB RAM + 16 GB ROM
Touch Screen	11.6" (1920 × 1080)
Advertisement Screen	23.8" (1080 × 1920)
Interactive Ability	Light/Touch/Voice Prompt

Measurements

Robot Dimension (W × D × H)	486 × 555 × 1399 mm
Robot Weight	60 kg
Layer Amount	4
Space of Each Layer (W × D × H)	1 st layer: 485 × 410 × 240 mm 2 nd layer: 485 × 410 × 215 mm 3 rd layer: 485 × 410 × 205 mm
Tray Access	Open access
Load Capacity	40 kg (10 kg 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

