T9 Pro

Key Features

- *Pickup features a new 11.6-inch high-definition display with a high refresh rate, enhancing user experience and facilitating easy operation.*
- *Innovative self-pickup technology is facilitated by strip lights, voice prompts, and screen-displayed visual information.*
- *A shock-absorbing chassis ensures smooth delivery, expanding the range of deliverable food types and broadening the scope of use scenarios.*
- *The advanced VSLAM sensor enables markerless deployment, reducing setup time and maintaining environmental integrity.*
- *Extended battery life exceeding 12 hours, coupled with a reduced charging time of approximately 4 hours, ensures longer service periods.*
- *The device employs a die-cast chassis, offering enhanced strength, durability, and lightness, with a narrowed gap design to deter rodent infiltration.*
- *The bottom layer is compatible with the new dishpan, providing additional convenience.*
- *An optional floating tray is available, further improving the smoothness of delivery operations.*
- *Safety is prioritized with the inclusion of three stereo vision sensors, safeguarding both human and robot interactions.*

Specifications

Performance

Maximum Coverage Area per Device	200×200㎡
Minimum Passage Width	70 cm
Moving Speed	0.1~0.8 m/s adjustable
Braking Distance	50cm
Slope Angle	≤ 5°
Battery Life	12h – 15h
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	≤1.5M
Rated Power	50W

Environment

Operating Temperature and Humidity	0 - 40℃, RH：5％~85％
Operating Environment	Indoor environment, flat ground, no dust
Storage Temperature	-30℃-60℃

Battery and Charging

Battery Type	Ternary lithium battery
Battery Capacity	DC48V，12Ah
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	4h(Robot powered on, from 0% battery)
Charging Pile Dimension	215*290*230mm
Charging Pile Weight	2.2kg

Hardware

Machine Material	ABS and aluminum alloy
Positioning Method	Sensor Fusion(LiDAR and VSLAM Sensor)
Positioning Accuracy	Centimeter grade
Sensing Techniques	LiDAR, Stereo Vision Sensor, VSLAM Sensor, Collision Sensor, IMU(Inertial Measurement Unit)
Sensor Coverage	Lidar detection range: 216°， <=20M; 3D Stereo vision range: 140°，0.1-1.5m
Network	Wi-Fi(2412-2472MHz)
Touch Screen	11.6 inch(1080p)
Interactive Ability	Light/Touch

Measurements

Robot Dimension(WxDxH)	500*527*1266mm
Robot Weight	45.2Kg (Charging pile is not included)
Tray Amount	3
Space of Each Layer	First layer: 486*384*195mm 2nd and 3rd layer: 486*384*166mm
Tray Access	Open access from the front and the rear
Load Capacity	40Kg(10Kg for each layer, including the bottom layer without tray)

System and Function

System	Linux(Control) & Android(Interact)
App Language	Chinese, English, Japanese, Korean
App Functions	Food delivery, Snacks, Direct delivery, Multi-point delivery, Welcome Mode
Expression	3 types
Voice Reminder	Different voice prompt in different working mode and general operation.

Official Standard and Optional Parts

Package Contents	Robot*1, Silicone Pad*3 , Battery Recharger*1, Charging Pile*1, Product Manual*1, Dishpan*1
Optional Part	Floating Tray, Additional Silicone Pad can be purchased.
Robot color optional	Space Gray

Package Content

Silicone Pad*3

Battery Recharger*1

*The actual recharger may be different.

Dishpan*1

*The actual Dishpan may be different.

Charging Pile*1

Product Manual*1

Optional Parts

Floating Tray

Main Unit and Dimension