

Flexible and Interactive Delivery Robot

T8 LS



Key Features

- Independently developed SLAM(synchronous localization and mapping) to ensure precise positioning and movements.
- Intelligent obstacle avoidance ability provides secure service with multiple sensor.
- Smooth delivery ensured by a shock-absorbing chassis.
- Smart charge: autonomous timed and quantitative charging with charging pile.
- Convenient use: ultra wide fetching space with up to 300° access angle to allow easy food placing and taking.
- Multi-Robot collaboration: multiple robots can cooperate smoothly in the same working environment.
- 60cm minimum passage width: make T8 go freely in various limited spaces.
- Multiple ways reminder: voice, expressions and tray indicator light to remind the customer to pick up food.

Specifications

Performance

Maximum coverage area per device	200*200m ²
Minimum passage width	60cm
Moving speed	0.1~0.8m/s adjustable
Min. Turning Diameter	65cm
Braking distance	0.6m(Max. Moving speed & Full load)
Slope angle	≤ 5°
Service life circle	20000h
Multi-Robot Collaboration	Maximum 5 robots
Multi-point delivery	Up to 20 points(single delivery)
Intelligent obstacle avoidance maximum detect range	≤1.5M
Rated power	35W

Environment

Operating Temperature, Humidity	0 - 45°C, RH: 5% ~ 85%
Operating environment	Indoor environment, flat ground, no dust
Storage Temperature	-30°C-60°C

Battery and charging

Battery type	Ternary lithium battery
Battery capacity	DC25.9V, 20.8Ah
Battery dismountable	No
Charging mode	Automatic charging with charging pile and manual charging by recharger
Charging Input	100-240V~,50/60Hz
Charing time	5h
Charging pile dimension	305*220*146mm
Charging pile weight	2.2kg

Hardware

Machine Material	ABS & aluminum alloy
Positioning method	Laser Positioning/Label Positioning(Start point only)
Positioning Accuracy	Centimeter Level
Sensing techniques	Lidar, Stereo vision, Image module, collision sensor, IMU
Sensor coverage	Lidar detection range: 204°, ≤40M, Stereo vision range: 120°, 0.1-1.5m
Image module	120°, ceiling height required 2-8m
Network	Wi-Fi(2412-2472MHz)
Memory and internal storage	2GB RAM + 16GB ROM
Touch Screen	10.1inch(1280*800)
Interactive ability	Light/Touch

Measurements

Robot Dimension(WxDxH)	384*462*1096mm
Robot weight	35kg
Tray amount	3(fixed)
Tray dismountable	no
Space of each layer	383*342*220mm(The upper two), 383*342*285mm(The bottom layer)
Tray access	300° easy access
Tray load capacity	20kg (5Kg per layer for the upper two layers, with 10Kg for bottom layer)

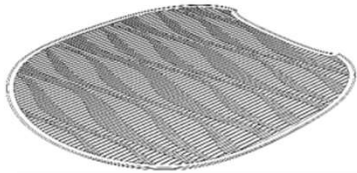
System and Function

System	Linux(Control) & Android(Interaction)
App Language	Chinese, English, Japanese, Korean, Thai language, Cantonese, other language customizable
App Functions	Food delivery/Dish receive, Snack, Direct delivery, Multi-point delivery, Blessing, Welcome greeting message
Expression	20+ types
Voice Reminder	Different voice prompt in different working mode and general operation.

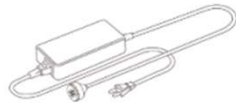
Official standard and optional part

Package Contents	Robot*1, Silicone pad*2, Battery recharger*1, Charging pile*1, Product manual*1
Optional part	Silicone pad(Additional purchase besides the package contents)
Robot color optional	White

Package Content



Silicone pad*2



Battery recharger*1



Product Manual*1



Charging pile*1

Main Unit and Dimension

