T3

Key Features

➢ Large and flexible interior, default 3 layers with available space of 575x422x230mm for each layer. Tray can be adjusted to extend the available space of the layer to 575x422x380mm(Two layers), or even to 575x422x690mm(without tray).

➢ Smooth delivery of beverage and soup ensured by new shock-absorbing chassis.

➢ Efficient interaction. Doors open automatically at the start point makes it convenient for the staff to put the dishes inside. T3 will close the door and go for the next task once you finish taking out the dishes and step on the pattern on the floor.

➢ Contents are secured by password during the delivery.

➢ Three stereo vision sensors make the robot and people around safer.

➢ Emergency sensing strip with rounded edges to reduce the harm when collision occurs and the collision sensor inside will stop the robot immediately.

Specifications

Performance

Maximum Coverage Area per Device	200*200㎡
Minimum Passage Width	75 cm
Moving Speed	0.1~0.8 m/s adjustable
Braking Distance	90 cm(Full load), 40 cm(empty)
Slope Angle	≤ 5°
Battery Life	10h – 12h
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
Obstacle Climbing Ability	10mm

Environment

Operating Temperature, 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	DC25.9V, 20.8Ah
Battery Dismountable	No
Charging Mode	Automatic charging with the bundled 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 and aluminum alloy
Positioning Method	Laser Positioning/Laser and Label Fusion Positioning; Label is required for the start point if charging pile is not used
Positioning Accuracy	Centimeter level
Sensing Techniques	LiDAR, Stereo Vision, Image Module, Collision Sensor, IMU(Inertial Measurement Unit)
Sensor Coverage	Lidar detection range: 360°(TBD), <=20M; 3D Stereo vision range: 200°, 0.2-1.5m
Image Module	120°, celling height required 2-8m
Network	Wi-Fi(2412-2472MHz)
Memory and Internal Storage	2G RAM + 16G ROM
Touch Screen	11.6inch(1920*1080)
Interactive Ability	Light/Touch/Voice Prompt

Measurements

Robot Dimension(WxDxH)	489*623*1341mm
Robot Weight	71Kg
Tray Amount	3
Tray Dismountable	Yes
Space of Each Layer	422*575*230mm, can be adjusted to 422*575*380mm(Two layers) and 422*575*690mm
Tray Access	Password protection during the delivery
Load Capacity	40Kg (10kg per layer for the upper two layers, and 20Kg for the bottom layer)

System and Function

System	Linux(Control) & Android(Interact)
App Language	Chinese, English, Japanese, Korean
*App Functions	Delivery, Cruise, Dish Return, Multiple delivery, Celebration mode, Welcome Mode
Expression	3 types
Voice Reminder	Different voice prompt in different working mode and general operation.

Official Standard and Optional Part

Package Contents	Robot*1, Tray Pad*3 , Battery Recharger*1, Charging Pile*1, Product Manual*1 , Cup Holder(for the top)*1, Marker*2
Robot Color Optional	Silver

Package Content

Tray Pad*3

Battery Recharger*1

*The actual recharger may be different.

Charging Pile*1

Product Manual*1

Main Unit and Dimension

489mm

1341mm

- Operation Screen
- Stereo Vision Sensor
- Cabin Door
- Projector Lamp
- Stereo Vision Sensors
- Emergency Sensing Strip

623mm

1341mm

Atmosphere Lamp

Slide Light

LiDAR

Cabin Fiber Texture

623mm

489mm

- Cup Holder
- Emergency Stop Button