

T3



Key Features

- Spacious, flexible interior: 3 layers by default, each offering 575 × 422 × 230 mm. Adjustable trays expand capacity to 575 × 422 × 380 mm (2 layers) or 575 × 422 × 690 mm (no trays).
- Smooth delivery of beverages and soups ensured by a new shock-absorbing chassis.
- Efficient interaction: doors open automatically at the start point for easy loading. The T3 closes them and proceeds once dishes are removed and the floor sensor is activated.
- Secure delivery: contents are protected by a password during transport.
- Enhanced safety: three stereo vision sensors improve awareness of surroundings.
- Collision protection: rounded emergency sensing strip reduces impact, while internal sensors stop the robot immediately.

Specifications

Performance

Maximum Coverage Area per Device	200 × 200 m ²
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	10–12 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	≤1.5 m
Obstacle Climbing Ability	10 mm

Environment

Operating Temperature, Humidity	0–40 °C, RH: 5~85 %
Operating environment	Indoor environment, flat ground, no dust
Storage Temperature	-30–60 °C

Battery and Charging

Battery Type	Ternary lithium battery
Battery Capacity	DC 25.9 V, 20.8 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 h
Charging Pile Dimension	305 × 220 × 146 mm
Charging Pile Weight	2.2 kg

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) ≤20 m; 3D Stereo vision range: 200°, 0.2–1.5 m
Image Module	120°, ceiling height required: 2–8 m
Network	Wi-Fi (2412–2472 MHz)
Memory and Internal Storage	2 G RAM + 16 G ROM
Touch Screen	11.6 inch (1920 × 1080)
Interactive Ability	Light/Touch/Voice Prompt

Measurements

Robot Dimension (W × D × H)	489 × 623 × 1341 mm
Robot Weight	71 kg
Tray Amount	3
Tray Dismountable	Yes
Space of Each Layer	Adjustable: 422 × 575 × 230 mm (default, 3 compartments) or 422 × 575 × 380 mm (two compartments) or 422 × 575 × 690 mm (one compartment)
Tray Access	Password protection during the delivery
Load Capacity	40 kg (10 kg per layer for the upper two layers, and 20 kg for the bottom layer)

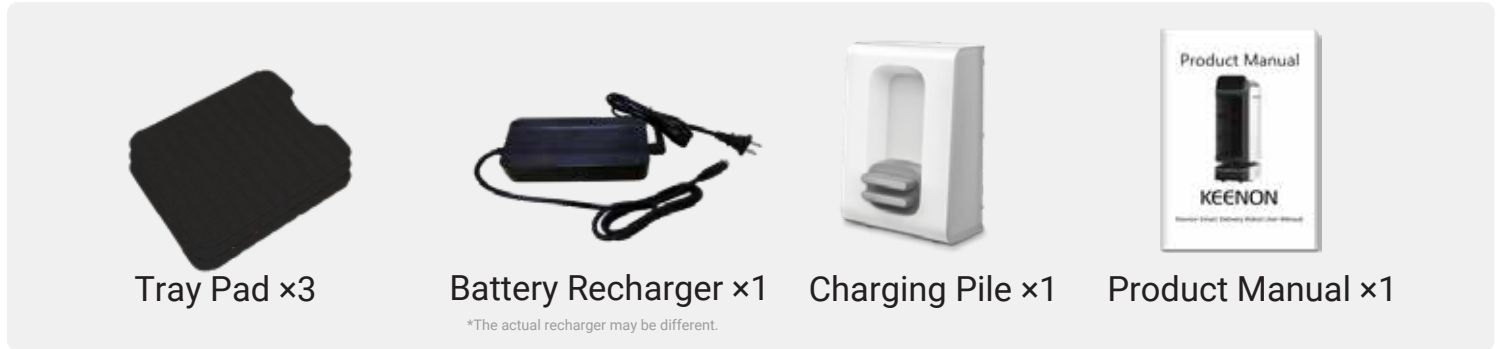
System and Function

System	Linux (control) & Android (interaction)
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



Main Unit and Dimension

