



FLASH

FOOD DELIVERY ROBOT



Why choose "Flash"

Safety: autonomous obstacle avoidance, 3D anti-fall, stable and safe

Easy to use: 4-layer tray, large load, more

Flexibility: the tray is quickly dismantled, and you can put it as you want

Smooth: ultra-thin body, no fear of narrow roads, free movement

Minimalism: Linear lighting for a modern minimalist style

Peace of mind: automatic charging, no manual operation required

Smart: real-time high-precision positioning, don't worry about getting lost

Cheap: 1 machine replaces 1 person, saving labor costs



Application scenarios



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Restaurant



Hotel



Shopping mall



KTV



Cafe



Internet cafe



Bar



Club for
relaxation



Factory



Hospital

Product structure



Product display



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Product description



FLASH Food Delivery Robot

The Flash food delivery robot is equipped with EcoBot Autonomous Solutions Affordable ROI Autonomous Solutions for SMBS leading autonomous scheduling system, multi-machine collaboration, stable operation, high-precision navigation and positioning, no code sticking, 3D intelligent obstacle avoidance, free passage in narrow lanes, automatic return charging, and optional autonomous elevator call/ Door control and other functions to realize the distribution of goods on different floors.

Product features



1. Autonomous scheduling system

The industry's original independent scheduling system, multi-machine cooperation, orderly operation

2. No need to paste code

No need to stick codes on the ceiling, Will not affect the beauty of the store

3. Autonomous obstacle avoidance

3D camera + lidar fusion technology
Intelligent recognition of the surrounding environment



4. Autonomous elevator call/door control (optional)

It can be equipped with elevator control, access control modules, automatic elevators and control passage fire doors

5. Free passage of narrow lanes

Ultra-thin body, no fear of narrow roads, free to walk,
Drive without hesitation

6. Automatic return to charging

15 hours long battery life, automatic recharging, No manual operation required

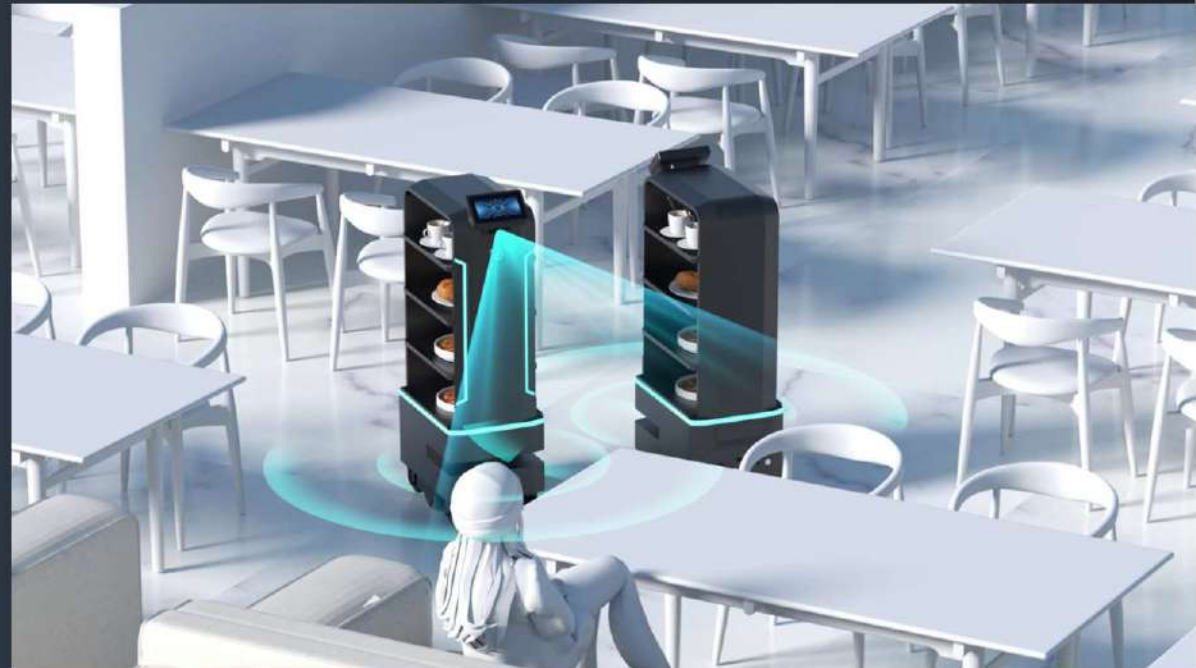
Autonomous scheduling system



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Multi-machine cooperation, orderly operation, avoid blocking "machines"

The built-in scheduling system, multi-machine collaboration, automatically completes the unified scheduling of food delivery robots, which is more flexible and efficient!



Narrow aisle, free passage



55cm

1

**Ultra-thin body,
no fear of narrow roads**

2

**High precision navigation
and positioning**

3

**Stable operation,
no shaking**

No coding required, precise positioning



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✓ No coding required

- There is no need to stick codes for auxiliary positioning, saving labor costs;
- There is no need to stick codes on the ceiling, and it will not affect the appearance of the store;
- Customize the meal delivery route and make the operation easier;

✓ High precision navigation and positioning

- With mature and stable navigation algorithm, precise positioning;
- Lidar + 3D camera multi-sensor fusion technology, real-time perception of the surrounding environment;
- Indoor autonomous navigation, autonomous elevator/door control, to meet the needs of various scenarios;

3D camera, autonomous obstacle avoidance

3D camera + lidar fusion technology, all-round perception of the surrounding environment, intelligent identification of steps, efficient and stable operation



Stereoscopic obstacle avoidance
— automatically avoid obstacles



Anti-drop — intelligent recognition of steps

Intelligent voice broadcast



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Your food has been delivered, Please take away the food on the first and second floors

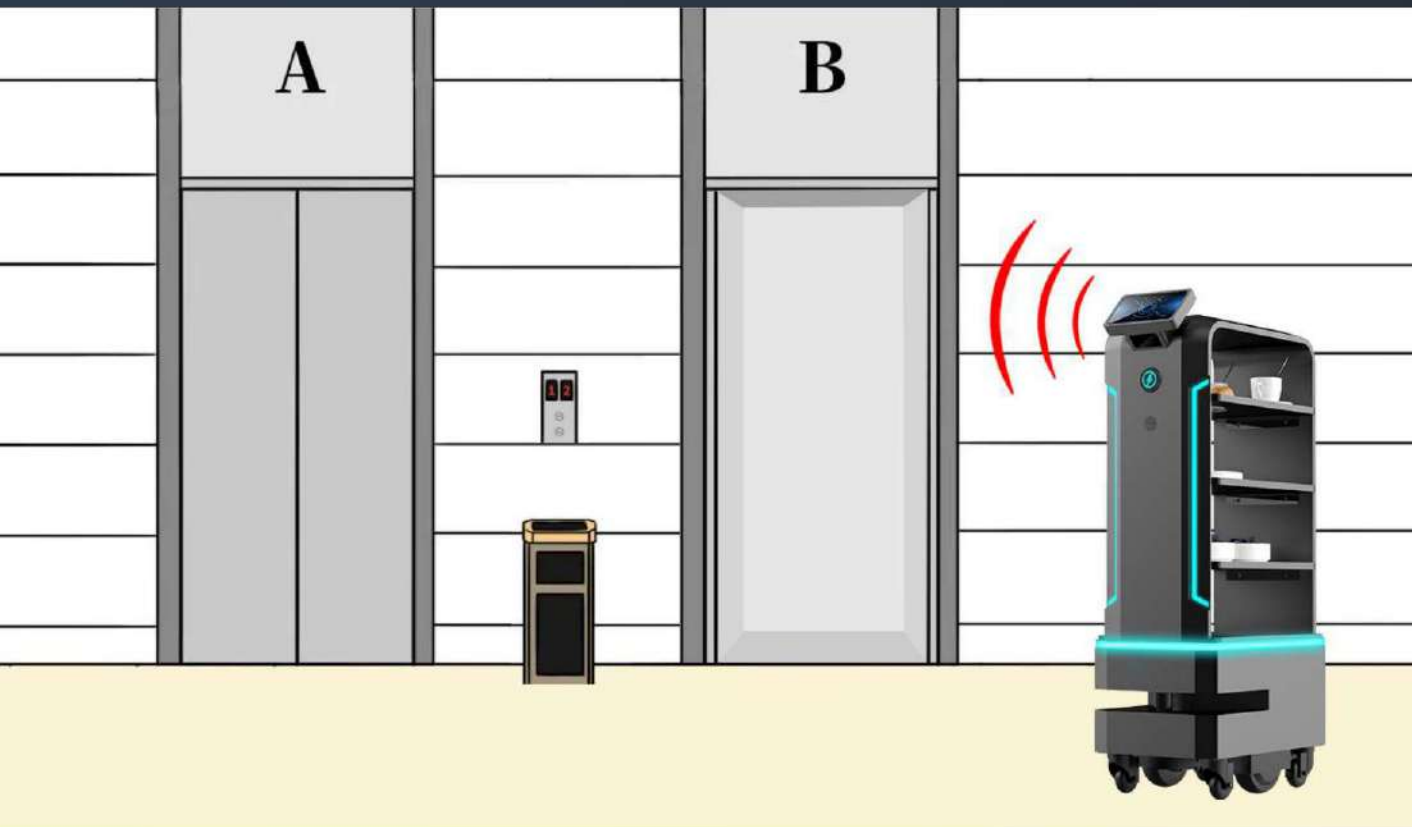
1. After arriving at the delivery location, the number of layers for picking up meals will be broadcast automatically;
2. After picking up the meal, it will automatically return to the delivery point over time.



Autonomous elevator/door control (optional)



Call and take elevators autonomously, control access control, automatically switch maps, indoor autonomous navigation, and cross-floor delivery



1. Optional elevator control module to carry out distribution tasks across floors;
2. It can be matched with the access control module to automatically open/close the door.

Diversified delivery modes

1

Food delivery mode

Automatic execution of meal delivery tasks, efficient meal delivery, autonomous avoidance, and accurate arrival

2

Cruise mode

Automatic cruise to attract customers, store drainage, Broadcast promotions

3

Back mode

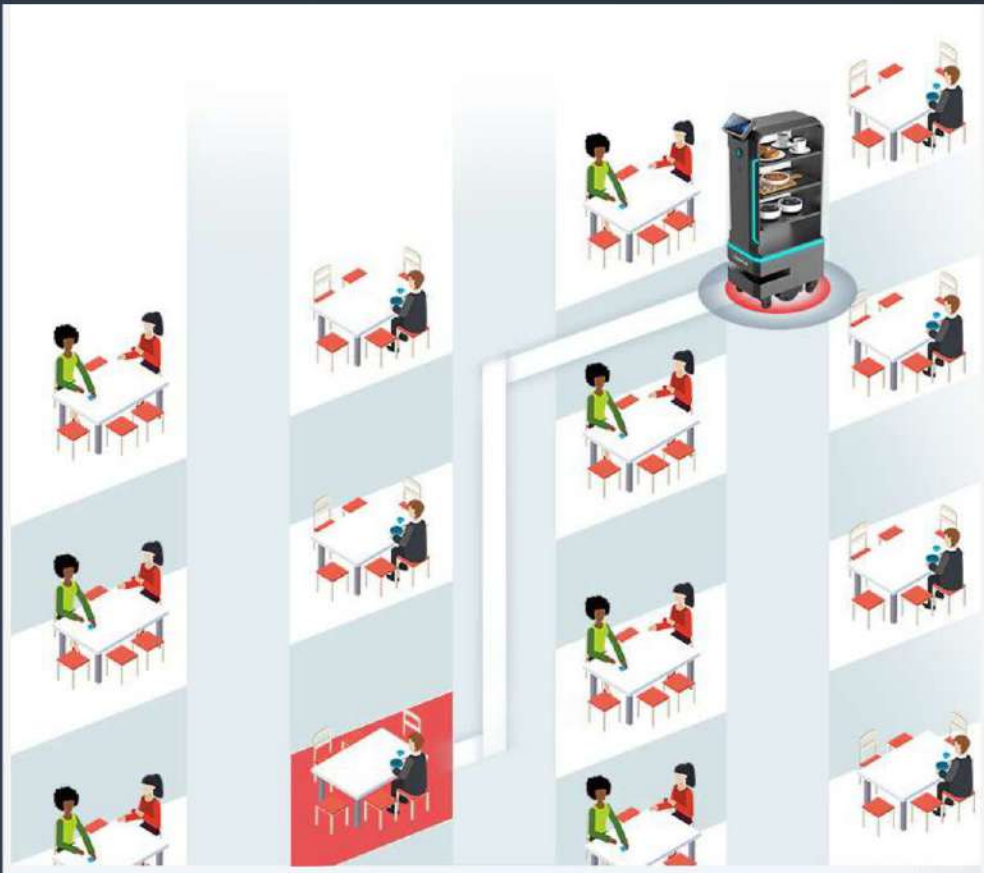
The path set in advance in the return mode, driving automatically, can recover the dishes on the table

4

Birthday mode

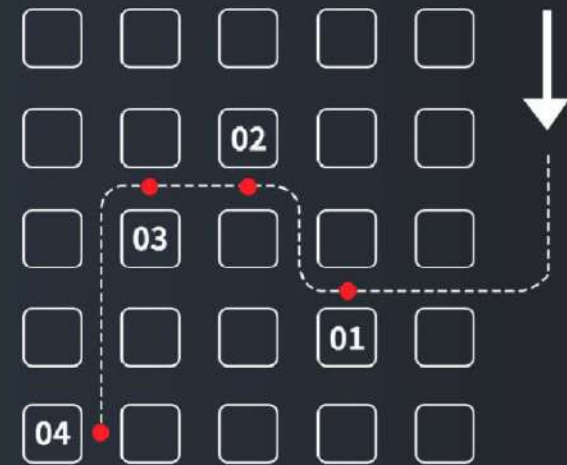
For VIP customers who come to dine, the birthday song will be played automatically when the meal is delivered

Choose your own route

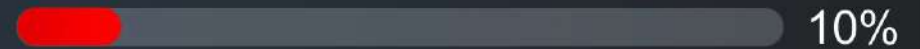


Automatically plan the optimal distribution route

efficiently distribute automatically
avoid pedestrians or obstacles,
and run stably



Automatic return to charging



The minimum power is set by custom. When the power is low to the minimum, the robot automatically returns to charging without manual operation.

Lithium iron phosphate battery

No fire, no burning, absolutely safe, longer battery life



High temperature resistance, no burning, safe enough



Long battery life, discharge cycles, up to 2000 times



Support fast charging, charging faster



Green, energy saving, environmental protection



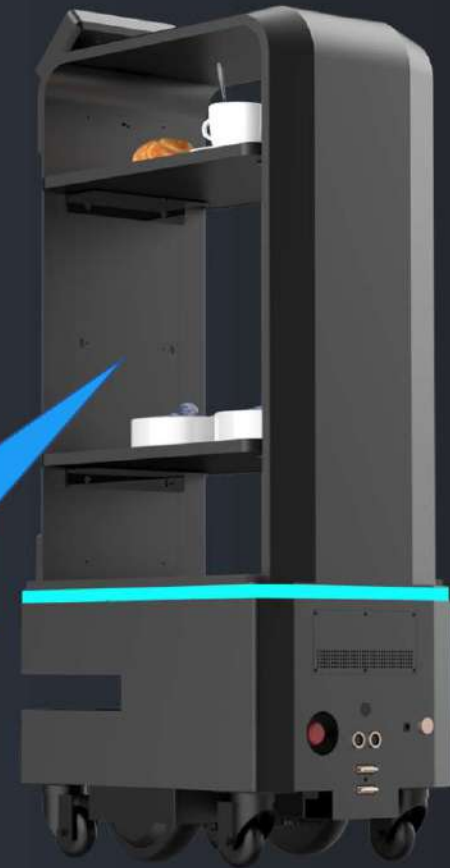
Quick release tray



Single layer bearing 20KG

The tray is removable to meet the distribution needs of items of different heights

The bottom screws of the tray can be unscrewed without tools.



Product parameters



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Product number	FBOT18S
Operating system	Android 5.1 operating system and above
Overall size	540mm(L)*360mm(W)*1216mm(H)
Net weight	62KG
Screen	7 inches (resolution 1024*600)
Tray size	335mmX465mm (4 layers in total)
Plate spacing	The first layer is 175mm, the second and third layers are 190mm, and the fourth layer is 170mm
Pallet weight limit	20kg/layer
Plate	Quick-release design
Charging time	6 hours (automatically rechargeable)
Voice prompts	Customizable voice
Task configuration	Customize task settings
Battery parameters	LiFePO4 25AH-8S1P 640WH 25.6V
Battery life	11 hours
Network mode	WIFI
Movement parameters	25m laser navigation, autonomous obstacle avoidance; climbing: 5°; rotation radius: 0, swing radius: 254mm;
Environmental conditions	Working temperature: 5C° ~ 40C°; Humidity: 5% ~ 85% Storage temperature: -10° ~ 50° (under extreme temperature, the battery needs to be charged and discharged at least once a month)



Food delivery robot series



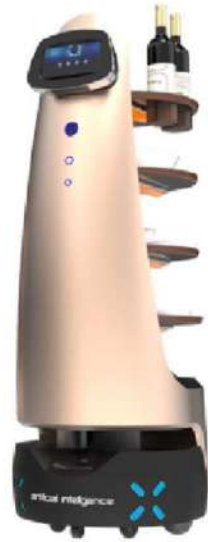
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Deligo



Panda



Olaf



Nurse



Postmam



Hussar



Flash





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Thanks for watching

CONTACT

 MBDA Business Center

 contact@example.com

 847-345-3255

 13 Fifth Avenue, New York, NY 10160