UBTECH

Dream With Robots

CADEBOT L100

Large Screen Efficient Delivery

Multi-scene Intelligent Open Delivery Robot



Lifelike Design

Human-like interaction mode, a novel communication experience



270°Open Tray design

High-quality ADC12 aluminum alloy die-casting

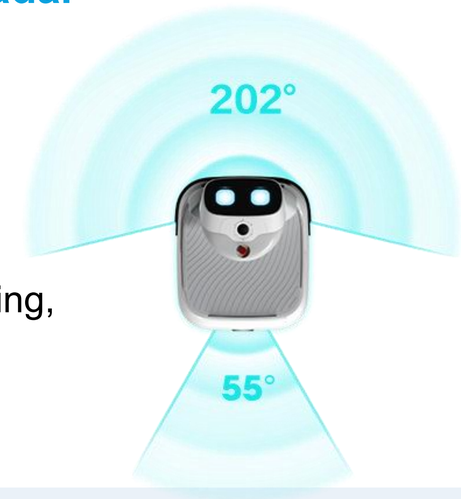
Allowing convenient placement and easy retrieval



Front-to-back Radar System

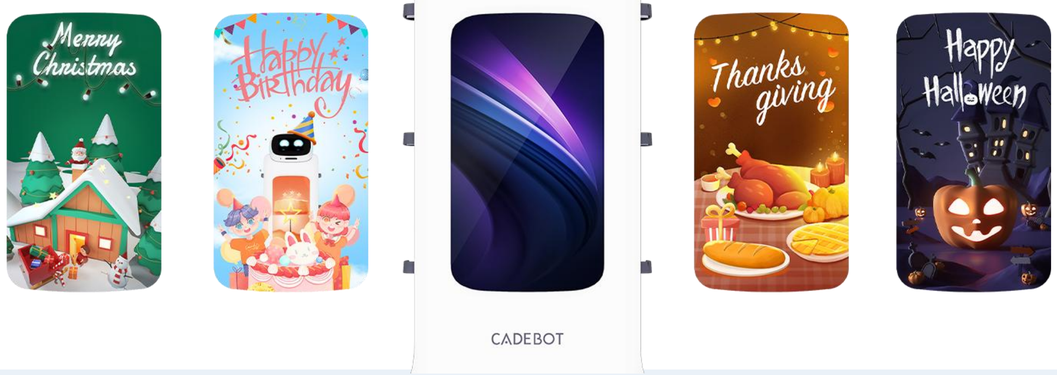
Forward 202° and rearward 55° radar detection range

Front and rear sensing, flexible obstacle avoidance



21" Ultra-HD Advertising Display

Customizable marketing materials showed on a walking billboard

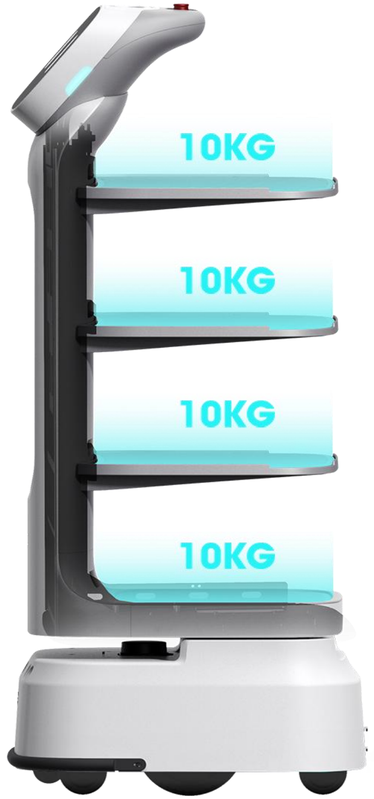


L-shape Structure Offers More Stable Support

The body is made of automotive-grade Q345 alloy steel.

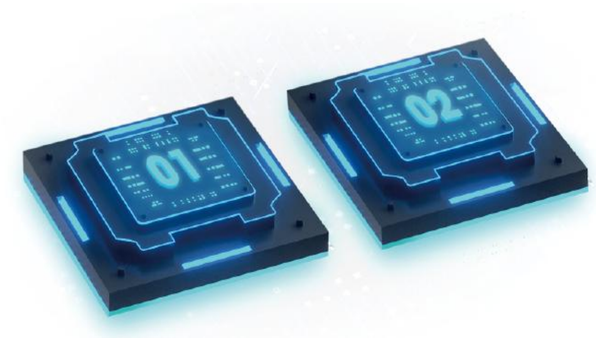
The tray is formed by high-quality ADC12 aluminum alloy die-casting.

Open design, maximum load 40kg.



Dual-Chip Configuration

Dual-core drive, doubling the intelligence



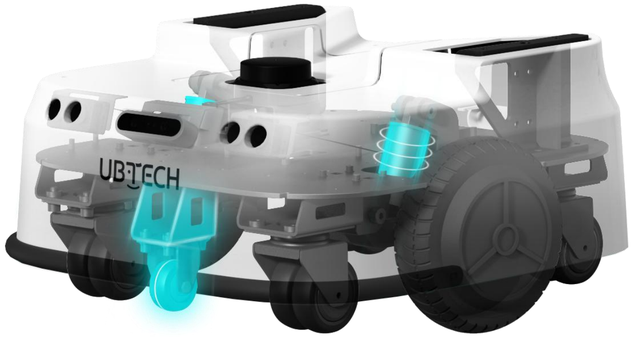
Surrounding Indicators

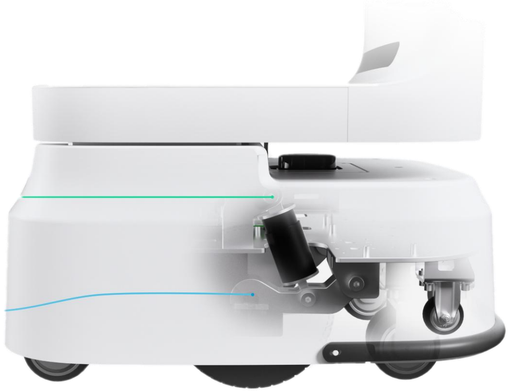
Create good vibes, quick identification of operation status available



U-STABLE Chassis

Equipped with automotive-grade shock-absorbing suspension, all-terrain wheels and shock-absorbing wheels for stable movement





Dynamic lifelike interaction, sensory communication

CADEBOT, a multi-scene comprehensive commercial delivery robot



Lifelike Interactive Design

Industry-leading eye-tracking technology
Dozens of expressive animations enabling human-machine interaction



L-shaped Structure, More Steady Support

Minimalistic L-shape, combining openness and practicality
Detachable structure, adaptable to various scenarios

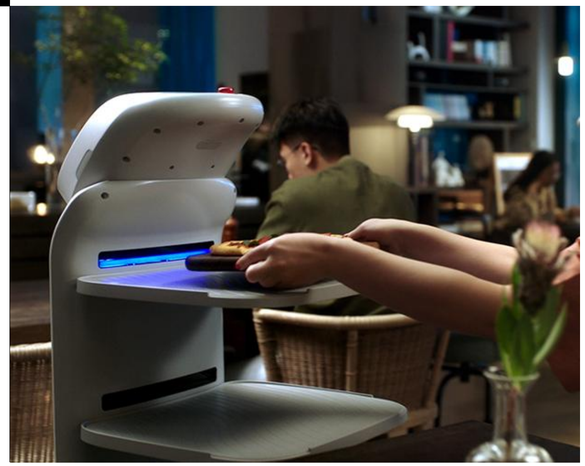
270°Open Structure Tray

More user-friendly industrial design, better delivery experience



Intelligent Tray with Sensors, Clearer Pick-up Instruction

Built-in infrared sensors available for intelligent detection of pick-up status
The lighting of tray minimizes the risk of errors



Multimodal Interaction

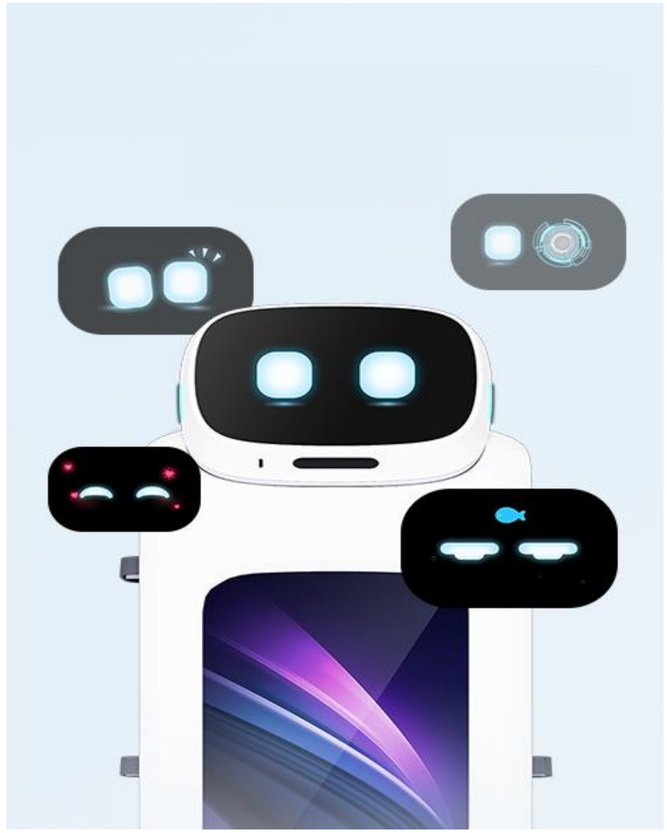
Animated Expressions: Dozens of original, and exclusive expressions enable more engaging and natural interaction

Three-dimensional Lighting Interaction: Effects based on different scenes and tasks, providing users with clearer status indications

Playful Voice: A rich voice dialogue library, supporting personalized voice customization









Mobile Advertising Display

- Supports customize marketing materials
- Supports quick import of advertisements via USB flash drive
- Supports cloud-based advertisement management
- Various materials support 4 major service modes



- Guests welcoming
- Smart escorting
- Cruising & Advertising
- Birthday mode

Customizable Skins

Customized skins based on holiday themes, marketing campaigns, or brand images

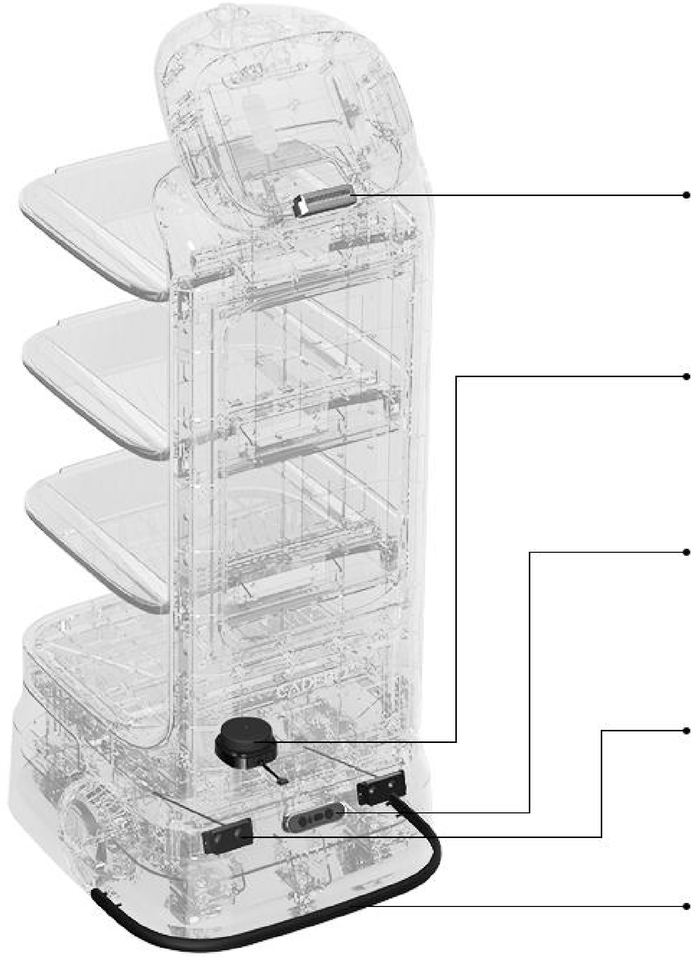
- Culture Theme
- Sport Theme
- Holiday Theme



Multi-Sensor Fusion for Comprehensive Intelligent Obstacle Avoidance

Equipped with front-to-back LIDAR, RGBD depth cameras, and ultrasonic sensors to minimize blind spots and achieve three-dimensional obstacle avoidance





Head-mounted RGBD Depth Camera

Human detection, table and chair detection
Cliff detection, slipper detection

Front-to-Back Radar

Forward to 202°, backward to 55°
Detection distance of up to 30cm

Chassis-mounted RGBD Depth Camera

Recognition of pedestrian movement status and table leg recognition

Ultrasonic Sensor

Transparent glass recognition and autonomous avoidance

Curved Anti-collision Strip

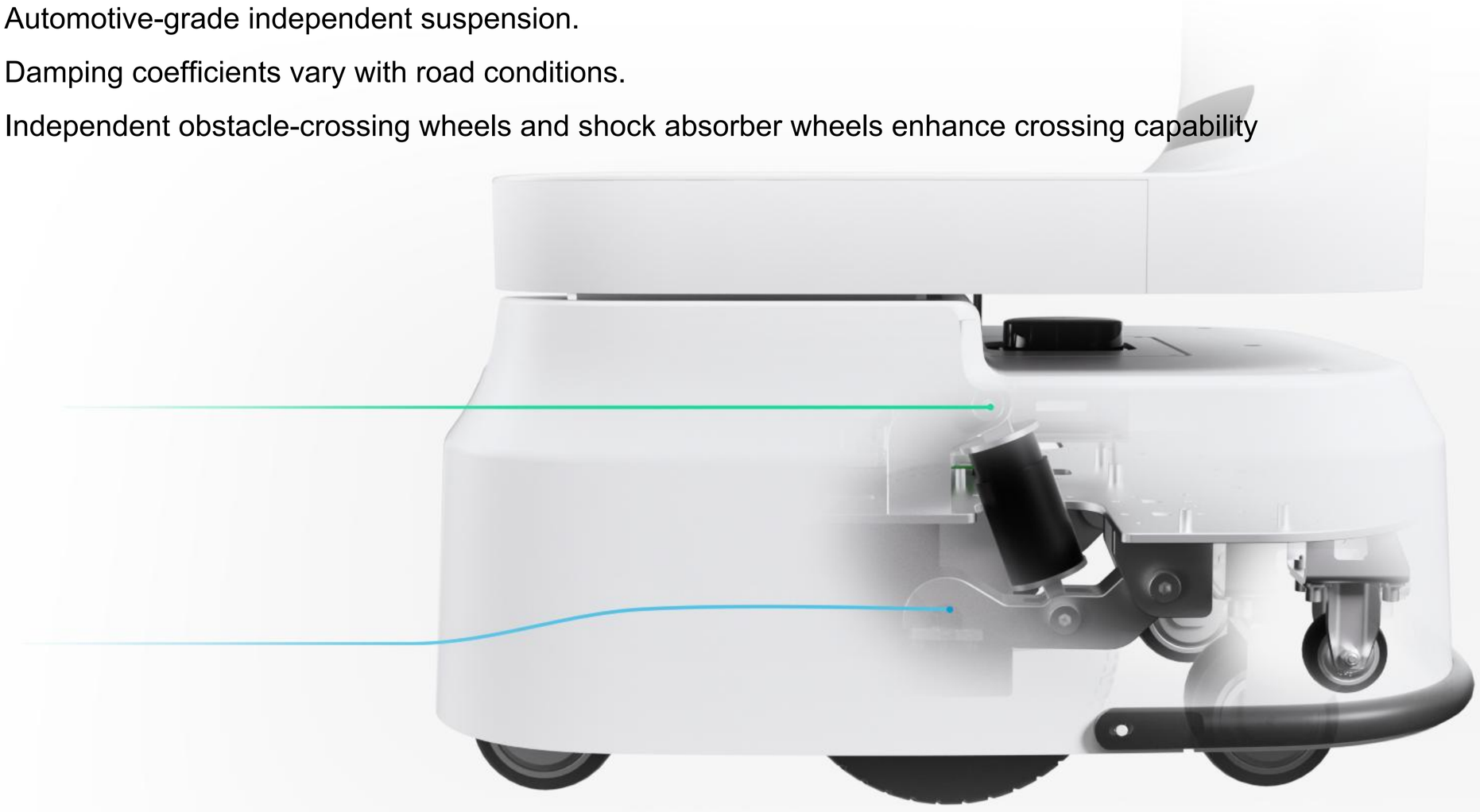
Real-time reaction when touching obstacles to enhance safe mobility

Smooth and Reliable Operation

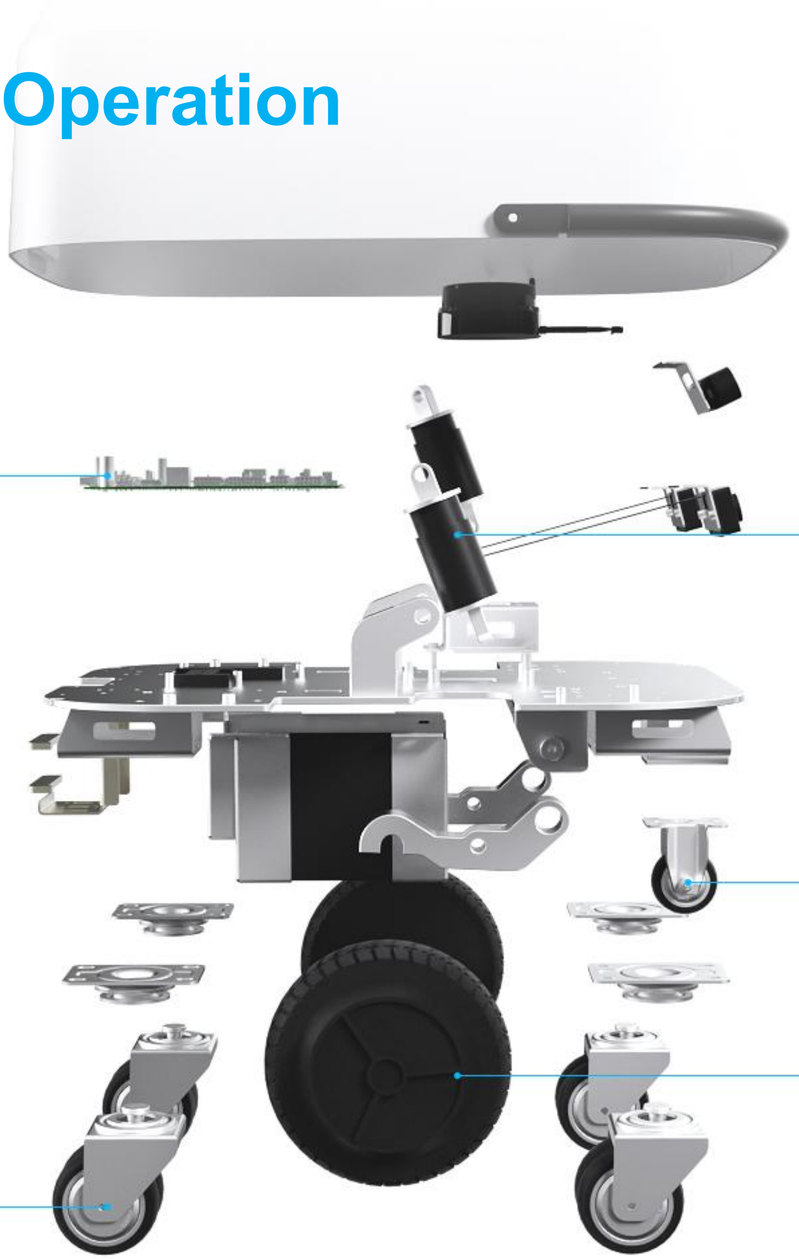
Automotive-grade independent suspension.

Damping coefficients vary with road conditions.

Independent obstacle-crossing wheels and shock absorber wheels enhance crossing capability



Smooth and Reliable Operation



Motion control chip

Specification-grade independent suspension

Independent overrunning wheels

Wheel motors

Shock-absorbing universal wheels



Cloud Platform Centralized

Scheduling for Efficient Multi-robot Collaboration

Built-in wireless communication (Lora) technology

Supports real-time communication between multiple devices in offline mode, and enables multi-device coordination

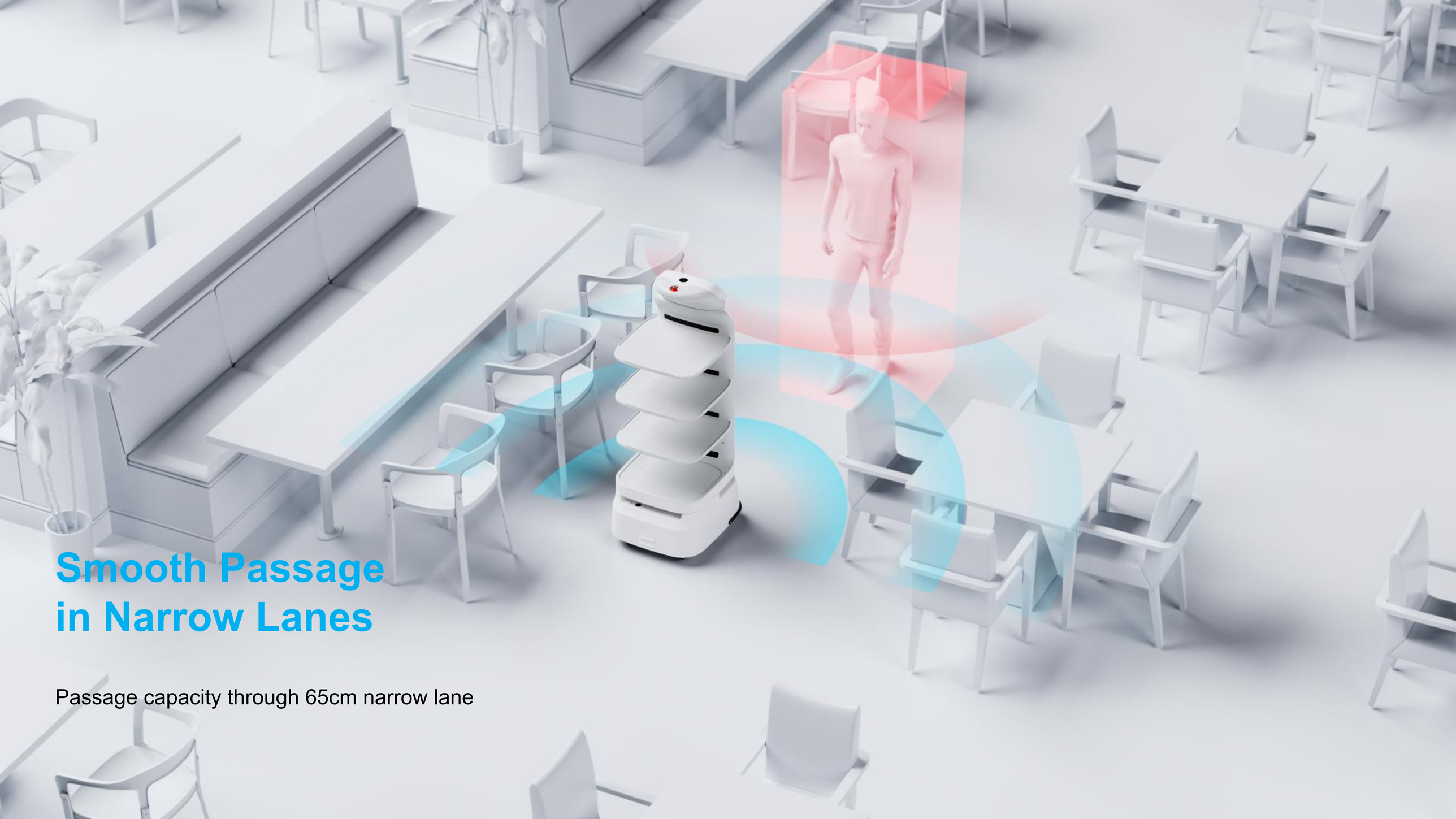


U-SLAM Fusion Positioning Technology

Mainly uses laser SLAM for positioning, with top-view QR code positioning as a supplementary method. In environments with frequent changes or in hazardous areas, the positioning can be promptly corrected through QR code scanning

Supports QR code recognition at heights of 3-5 meters

Equipped with infrared fill light to support low-light environments



Smooth Passage in Narrow Lanes

Passage capacity through 65cm narrow lane



Flexible Adjustment to Slopes

Speed adjustment according to different slopes, with a speed-limit function



Cliff Detection for Autonomous Obstacle Avoidance



Intelligent Obstacle Avoidance with Glass Recognition

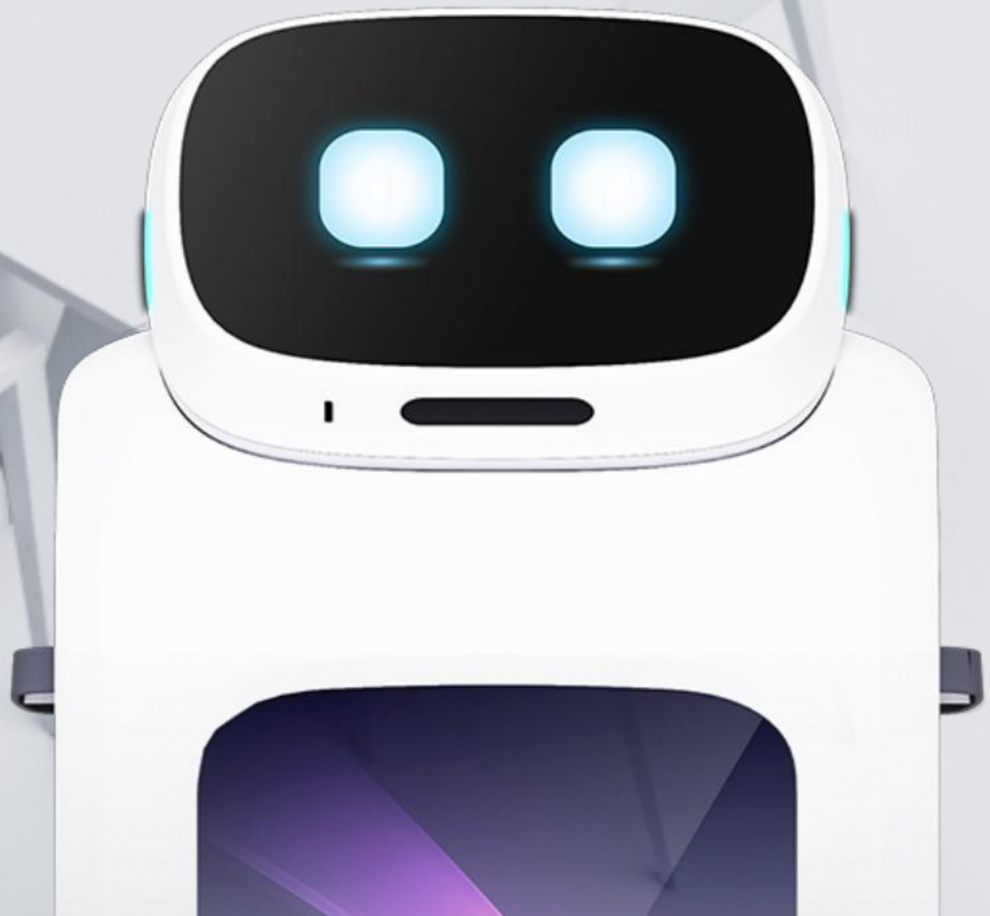


Multi-table Delivery with Single Operation

Autonomous optimal path planning

Support face recognition and password input for operation

Map synchronization complete



Rapid deployment,

Multi-device sharing

Built-in mapping and deployment functionality, providing a simple and user-friendly experience.

Once mapping is completed with a single machine, it can be synchronized to the cloud via built-in Wi-Fi or 4G for multi-device sharing.

User-friendly Management Platform

CARS（Cadebot Artificial Intelligence Robot System）robot management platform

Integrated functions: marketing material editing, operation status queries, map management, efficiently manage robot data

Global multi-node deployment for faster platform access

Support private deployment for more secure data storage



A Variety of Accessories Meeting Needs of Diverse Scenario

Wine rack, glass holder, dust cover, and physical call button

Customizable and easy installation



Automatic Recharging, Long Battery Life

- Automatically recharge when the battery is low
- 6hours of battery life when fully charged
- Simultaneous Charging and Welcoming



Charging Safety Protection

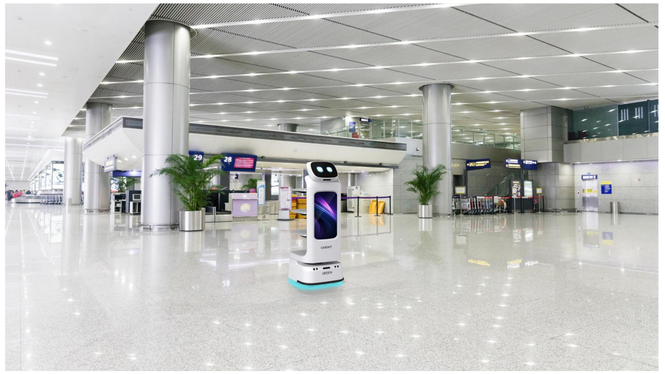
- Lithium iron phosphate battery，Not prone to fire
- Superior safety compared to standard ternary lithium batteries
- high-temperature resistance



Application Scenarios



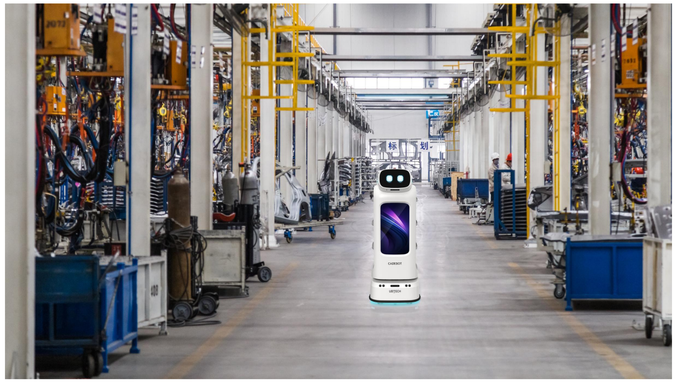
Restaurants



Airports



Hotels



Factories



Supermarkets



Retail

Services & Supports

Provide one-stop customized solution support. Including skin design to meet the needs of enterprise-level customers

A professional team(A) installs and deploys robots on site, and high-quality services ensure that customers fully understand the use of the robots

Equipped with professional solution experts and project delivery teams(B) to respond to customer needs in real time

Robots come with one year warranty(c), and any non-human failure that occurs during the warranty period will get rapid repairs and supports free of charge or free spare parts replacement, for detail please refer to the product service policy

UBTECH has highly automated robots production lines, high quality control and outstanding after-sales support services.

*(A)Provided by Ubtech official technicians or authorized service providers
*(B)Provided by Ubtech official technicians or authorized service providers
*(C) Warranty period is determined by local laws, subject to related local legal requirements and varies by country/region.

Configuration

General Parameters	Overall Machine Dimension：	551*484*1265mm	Color：	Grey	Touch Screen Size：	21.5寸
	Net Weight：	55kg	Body Material：	ABS	Touch Screen Resolution：	FHD,1200*1920
	Gross Weight:	85kg	Touch Screen Size：	10.1寸	Advertising Screen Resolution：	FHD,1920*1080,16:9

Load Movement Capacity	Load Space：	3 trays / 4 loading places	Climbing Ability:	5°
	Load Capacity/ Tray：	10KG	Movement Speed：	0.3~ 1.0m/s（adjustable）
	Total Load Capacity：	40KG	Obstacle-surmounting height:	15mm
			Passage width:	650mm

System Parameter	Operation System:	Linux, Android	Mic Array：	6 matrix microphones
	Navigation Sensors:	Lidar x1	Battery Life：	working endurance
		RGBD Depth Cameras: x2 Top Camera: x1	Positioning Accuracy:：	6hcentimeter level
		Front Camera: x1 Ultrasonic Sensors: x2		

Network & Charging	Network Support：4G (TDD-LTE, FDD-LTE), WiFi 2.4G/5G, Lora	Charging Method：Line charging, Automatic recharging
	Battery Capacity：20AH, LiFePO4	Charging Time: 4h (requires additional charging station)
		Battery life: 8 hours (working) / 12 hours (standby)

Optional Accessories	Dust cover, wine rack, cup holder, large tray, return box, pager, charging station

Packing List (Standard Configuration)	Robot body, power adapter, instruction manual, warranty certificate, and tray mats

UBTECH COMMERCIAL ROBOTS LinkedIn

Company Name: Shenzhen UBTECH Robotics Co., Ltd

Company Address: 8th, 22th Floors, Block C1, Nanshan IT Park, No. 1001 Xueyuan Road, Nanshan District, Shenzhen City, ChinaOfficial

Website: www.ubtrobot.com

Email: commercial.marketing@ubtrobot.comService

Line: 400-6666-700

Trademark statement

CADEBOT-L100悠宝， UBTECH 优必选 ，UBTECH COMMERCIAL， UBTECH COMMERCIAL 优必选商用 and other trademarks, product names, service names and company names appearing in this brochure and in the products described in this brochure are the property of their respective owners.

Disclaimers

*All contents such as graphics, videos, and photographed products are for reference only, and actual products may change or differ.

*Please refer to the final contract or purchase, our company reserves the right to interpret within the scope permitted by law.

Copyright

No part or all of the contents of this document may be excerpted or reproduced by any entity or individual without the written consent of UBTECH, and may not be transmitted in any form.

UBTECH

UBTECH

CADEBOT L100

Multi-scene Intelligent Open Delivery Robot

Large Screen
Efficient Delivery

Thank you

