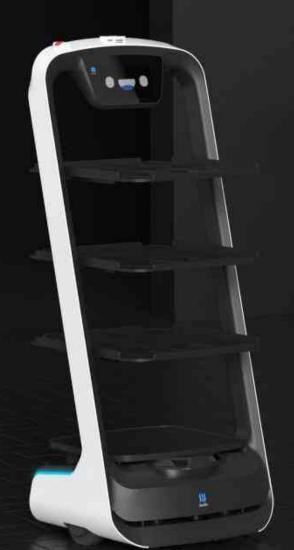






Arona Kreativa d.o.o.
Breznikova ulica 15, 1230 Domžale
www.arona.si
+386 (0) 51 88 00 88





PuduBot

An Intelligent Delivery Robot

About PuduBot Series

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Pudu Service

Client Case

About Pudu



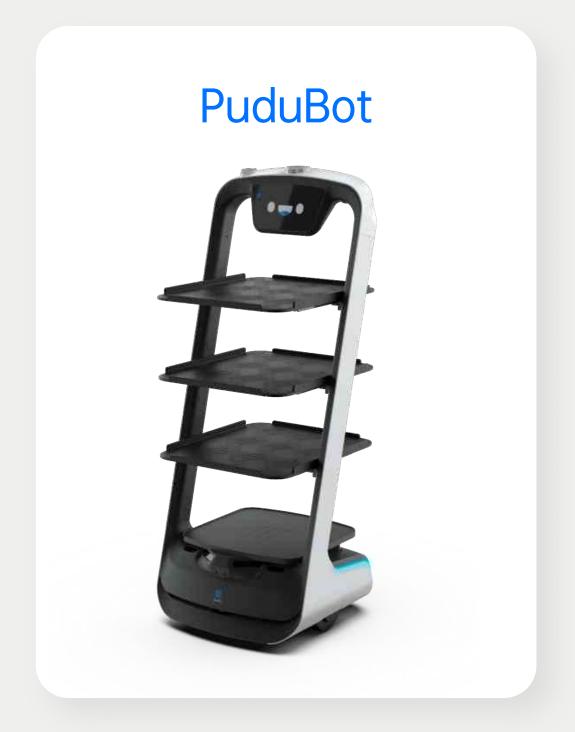
PuduBot

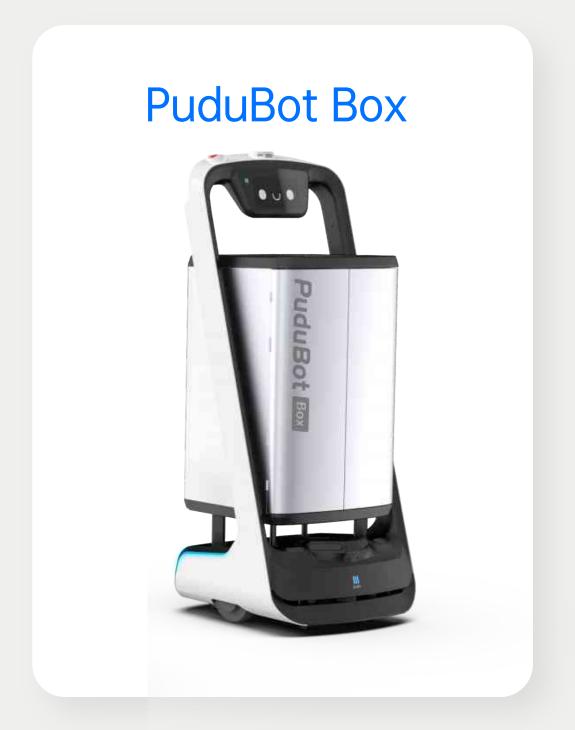
An Intelligent Delivery Robot

The PuduBot Series is Pudu Robotics' classic delivery robot, which launched the industry's first trackless delivery robot. PuduBot's simple and effective industrial design earned it German Red Dot Award for best design, and spearheaded a new trend of indoor delivery robot designs. Since its release, PuduBot has been sold in more than 50 countries and regions to serve local consumers in restaurants, hotels, office spaces, etc.









Note:

- We currently offer two versions of PuduBot for you to choose from: tray version and enclosed box version.
 Both versions of PuduBot feature a modular design, quick release structure, and support kits switching.
- We offer a rich selection of accessories for the PuduBot series. You can purchase different accessories to upgrade your robot according to specific delivery needs.







PuduBot



Machine dimensions	516*500*1288mm
Robot weight	35kg
Machine material	ABS/Aviation-grade aluminum alloy
Charging time	4H
Battery life	10-24H
Battery capacity	15.6Ah
Cruise speed	0.5-1.2m/s (Adjustable)
Load capacity	13kg/tray, Max30kg
Tray size	3* Super-large metal trays (42×50cm) 7 levels of adjustment

PuduBot Box



Machine dimensions	516*500*1288mm
Robot weight	40kg
Machine material	ABS/Aviation-grade aluminum alloy
Charging time	4H
Battery life	10-24H
Battery capacity	15.6Ah
Cruise speed	0.5-1.2m/s (Adjustable)
Load capacity	10kg/tray, Max 30kg



Product Advantages: PuduBot

Why Choose PuduBot?_

Practical: Large capacity, fast movement, readily usable and efficient.

Affordable: Only \$5 cost per day.

Secure: Not run into others. No spill out.

Easy: Require no extra maintenance except charging.

Durable: 73,000km durability test.

Service: 7/24 support at hundreds of outlets nationwide.



Product Overview: Applicable Scenarios

All Scenarios Covered

Pudu has independently developed a robot positioning and navigation technology based on multi-sensor fusion, which allows PuduBot to be used in restaurants, hotels, Bar, cafés, office buildings, and other business scenarios.



Restaurants



Hotels



Bar



Government buildings



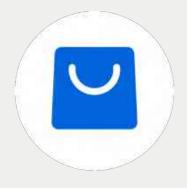
Cafés



Office buildings



Hospitals



Shopping malls



Product Advantages: Applicable Scenarios

Restaurant

- Provides table-to-table delivery of dishes, tableware, hand towels and other restaurant items.
- Arrival notification: voice reminder ensures precise delivery.



Hospitality

- Provides pre-meal snacks, drinks and other welcome services in the waiting area.
- Intelligent voice announcements to attract customers.





Product Advantages: Applicable Scenarios

Office

• Delivers documents and other items in the office.



Karaoke

• Delivers drinks, snacks and other food to the booths.



Product Advantages: Applicable Scenarios

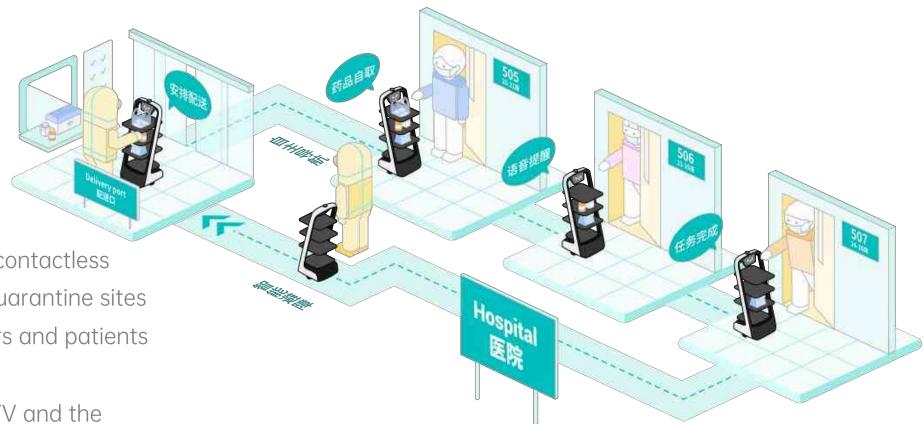
Contactless Delivery in Hospitals

What can PuduBot do?

 Performs contactless delivery of daily necessities, medicine, takeaway meals and other everyday items in hospitals.

Advantages:

- During COVID-2019, PuduBot provided full-process contactless delivery services for more than 100 hospitals and quarantine sites nationwide to avoid cross-infection between doctors and patients and save medical resources.
- For its efforts, it received commendations from CCTV and the Ministry of Industry and Information Technology.

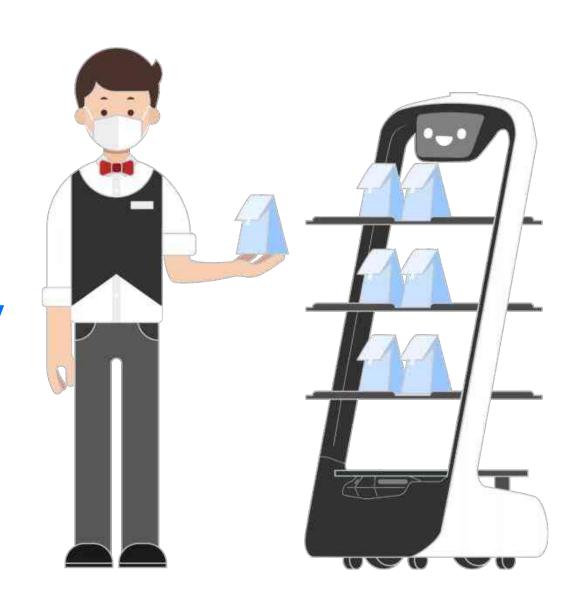




Product Advantages: Contactless Delivery

In the post-epidemic era,"Contactless delivery" is becoming increasingly important in the intelligent delivery industry

The COVID-19 has changed many aspects of production and people's lifestyle. As a result, the role of "contactless delivery" has become increasingly prominent. In restaurants, food is distributed to customers by PuduBot robots, which reduces direct people-to-people contact, while ensuring food hygiene and safety.





Product Advantages: Efficient Delivery

PuduBot—Intelligent Delivery Expert

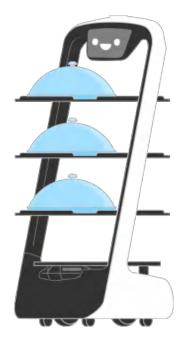
More deliveries

In restaurants, PuduBot can complete roughly 400^[1] food and beverage deliveries every day, which frees waiters from the repetitive and laborious work of delivering dishes, so that they may have more time to focus on serving customers.



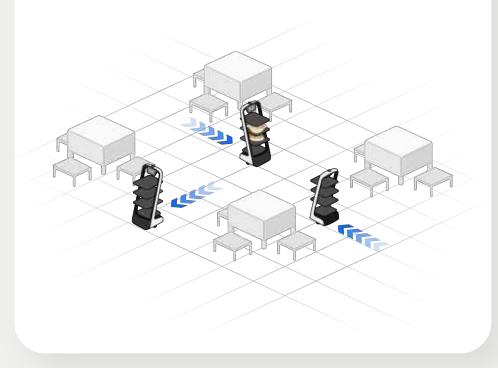
Larger loads

PuduBot features a large tray (42×50cm), which allows for a single tray to provide twice the carrying capacity as a manual delivery.



Coordination among multiple robots

Support collaborative delivery mode and allow 100 PuduBots to work together in a 10,000m² dining space at most.





Core of Extreme Delivery Capacity

<10cm

Centimeter-Level

Centimeter-level real-time
positioning. Features a multi-sensor
fusion solution with a minimum
clearance as low as 80cm.
Reliably Accurate



Multiple Maps

Highly precise mapping, optimal path planning, multiple delivery modes, full scenario coverage.



Excellent Endurance

Work for 24 hours after being fully charged in 4 hours.

Product Advantages: Outstanding Safety Functions

Safe, to be safer

3D obstacle avoidance technology, is the safety performance guarantee



- A front detection angle up to 192.64°
- Over 10 meters of front detection distance

- 2* RGBD depth cameras
 Endows PuduBot with the best 3D perception ability.
- Accurately detect obstacles and stop within 0.5 seconds in case of any obstacle.

Product Advantages: Superlative Trafficability

Safe, to be safer

Auto-level independent linkage suspension for stable, non-spill delivery



- Auto-level adaptive variable suspension. Damping can be altered according to different floor conditions and driving requirements.
- The resonance frequency is maintained at an optimal state.
- Be capable of crossing 1cm obstacles
- Deliver dishes with no-spill out
- Improve the moving steadiness ability by 50%

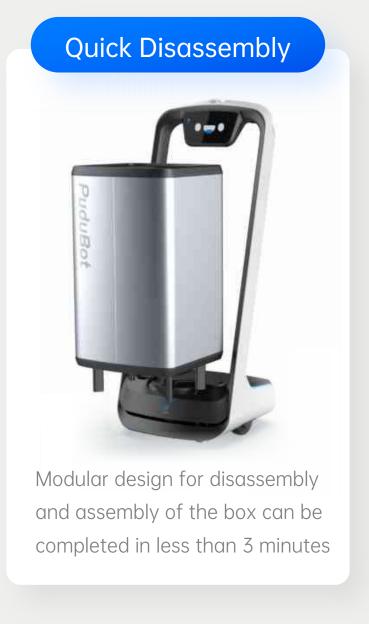


Product Advantages: Abundant Accessory Packs · Enclosed Box

Worry-Free Delivery Enclosed box to isolate contamination Privacy protection









Product Advantages: Abundant Accessory Packs · Enclosed Box

Enclosed Box Specifications



Box material	ABS/Aviation-grade aluminum alloy
Box weight	16kg
Box dimensions (external)	422*422*710 mm
Box dimensions (internal)	398*396*650 mm
Tray height	238/238/178mm (from top to bottom)
Load capacity	10kg/tray within the box and 5kg atop the box
Door-opening control	Press-type elastic switch



Product Advantages: Abundant Accessory Packs·Flexible Dish Covers

Flexible Dish Covers



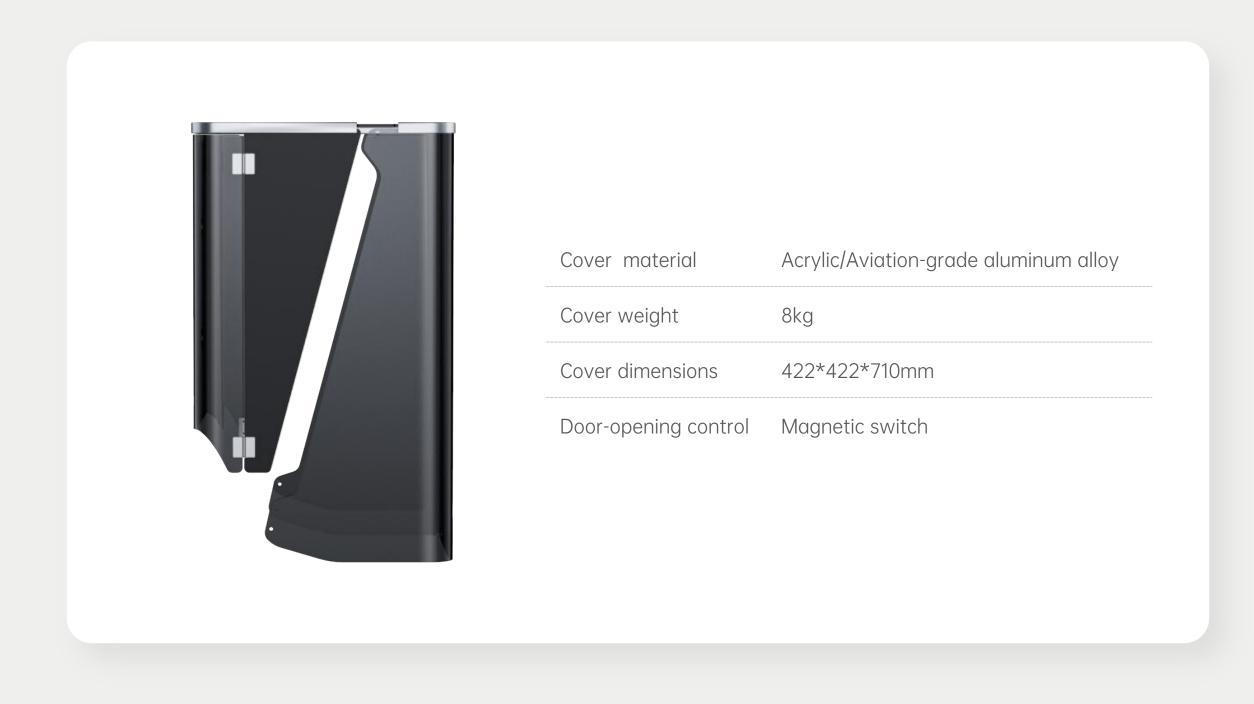






Product Advantages: Abundant Accessory Packs·Flexible Dish Covers

Flexible Dish Cover Specifications





Product Advantages: Safety Certifications

PuduBot robot has received KC certification from Korea, CE certification from the EU, FCC certification from USA, RCM certification from Australia, and NCC certification from Taiwan, China

IMDA certification from Singapore, MIC/TELEC certification from Japan, CR (China robot certification) and many other certifications both domestically and abroad to ensure the safety and compliance of our robots.



The Comparison of Performance with Others

	PuduBot	T1	T5	T6	Performance comparison
Console	4G+16G	2G+16G	2G+16G	1G+8G	Large memory, with excellent performance in the algorithm control over the highly dynamic scenes.
Communicatio n	Self-built network based on the independent WIFI module	3G	3G	3G	Compared with 3G, the self-built network suffers less disturbances with better bandwidth, faster information transmission and greater scheduling efficiency.



Product Features: Safety Test from Third-party Testing Institution

Fixed Obstacle Avoidance Test

Obstacle	Chair	Backpack	Metal kettle	Plants	Toilet paper	8mm iron net
Test Process	71113			ditt.		
Test results	Success	Success	Success	Success	Success	Success

Steadiness Test

Speed	0.5m/s (No load)	0.9m/s (No load)	0.5m/s (Full load)	0.9m/s (Full load)
Test Process				
Test results	100ml remains. No		100ml remains. No	Move steadily. 100ml remains. No
	spill out	out	spill out	spill out

Testing institution World Test Time: November 26, 2019 to December 25, 2019 Test report No.: WD1911ST006

Hovering Obstacle Avoidance Test

Hovering Elevation	0.25 m	0.5 m	0.8 m	
Test process			7	
Test results	Success	Success	Success	

Passability Test

Test passage	Straight passage	S passage	Passage with right angle	Passage with obtuse angle	Dead end
Test process (Speed 0.5m/s)		91			A
Test results Test process (Speed 0.9m/s)	Pass in 6s	Pass in 8s	Pass in 8s	Pass in 8s	Fail and keep
Test results	Pass in 3s	Pass in 3s	Pass in 3s	Pass in 3s	Fail and keep exploring



Product Features: Service Features

More Service Features

MIR system: free online upgrade



App Call

Mobile device call

Real-time control and quick response



Private Room Notification

Punctual notification on robot arrival

More efficient service for the private rooms



Receipt Recognition

QR code recognition and automatic tasking

No need to use the screen



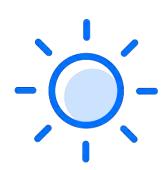
Customized Voice

Online upgrade and real-time sync

Product Features: Service Features

More Service Features

MIR system: free online upgrade



Sunlight Resistance

Bright light resistant Adaptable to different indoor light conditions 8M]

8 Meters Height

Able to work in the indoor space with a 8m height at most, such as the hotel lobby



Support Flexible Table Numbers

Allow to choose and change the table numbers as one wishes



Switch among Several Maps

Switch among several maps based on the actual scenes

Pudu Service: PUDU Robot Open Source Platform

PUDU Robot Open Source Platform

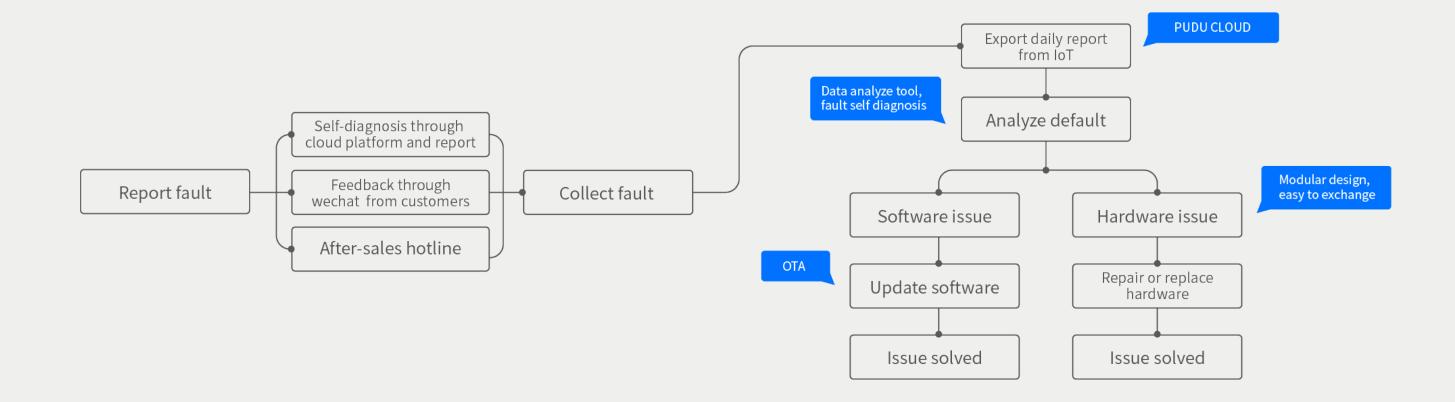
The Pudu Robot Open Source Platform enables developers to achieve functions such as remote control, task input, status monitoring and much more via different interfaces.



Supporting Services: Remote Fault Detection

PUDU IoT cloud service could solve over 90% of technical faults

- · Real-time fault detection and reporting via the cloud platform: Not rely on clients' feedback, timely respond to and handle the faults.
- Analyze and handle faults online: Locate the fault module precisely and handle over 90% of the faults online by IoT.
- Automatic fault diagnostic tools: Improve the fault handling efficiency and lower the after-sales cost.
- Modular design: Make after-sales service easier and professional by streamlining the maintenance steps.





Supporting Services: Customized Services

Create Your Exclusive PuduBot

Customized Appearance



Enhanced Promotion

- Go harmony with the vibe of the restaurant
- Greater brand and service exposure

Customized Voice Pack





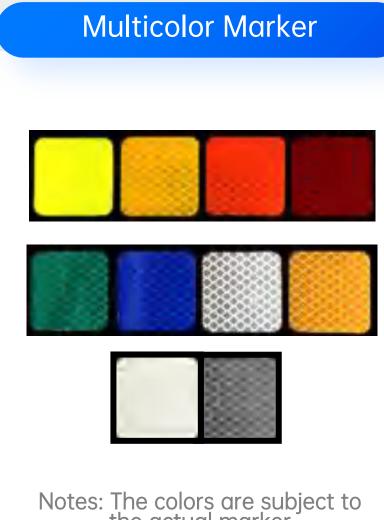




Sweet girls



Active boys



Notes: The colors are subject to the actual marker