pudu

HolaBot

Bussing Robot

About HolaBot

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Say Goodbye to Dirty and Repetition Work

HolaBot is a professional bussing robot

- **Best performance:** HolaBot has a carrying capacity as large as 120kg. With the half-open trays, sauce residue collecting tank and the IPX5 waterproof body. HolaBot can collect the plates at a rate as high as over 200 times per day

- **Most intelligent:** HolaBot supports multi-end calls and air motion control. With the modular base and the full-range depth sensor, HolaBot redefines the bussing robot

Design for Bussing

Efficient: 120kg large capacity, fast movement, twice as efficient as the staff

Affordable: Only $5 cost per day

Secure: Not run into others. IPX5 waterproof inner cabin

Easy: Require no extra maintenance except charging

Durable: 73,000km durability test （The data is based on certain environment test)

Just the right choice of different indoor scenarios

Pudu Robotics has independently researched and developed its own robot positioning and navigating technologies based on multi-sensor solution, HolaBot could be widely used in commercial scenarios like restaurants, hotels, office buildings, etc

Restaurant

Shopping mall

Karaoke

Internet Cafe

Hotel

Government

Office

Hospital

Contactless delivery, safety means everything

The COVID-19 Pandemic profoundly changes our way of life and production. HolaBot supports multiple calling modes, traces the target following the voice directions, and receives remote operation commands. It is a critical solution to the post-pandemic era. In the restaurants, HolaBot receives demands from the calling devices and collects the dishes automatically, requiring no manual operation, reducing people-to-people contact and boosting efficiency

HolaBot Features

- 120L Large load and great carrying capacity
- IPX5 waterproof inner cabin
- Multi-call mode, giving orders in real time
- Air motion control
- Voice control, front-end noise reduction solution, identify the effective sound within 5m, realizing full-range sound source positioning

Pro Performance, Power to Bussing

Large Carrying Capacity

Hola has a 120L cabin, including 3 large-capacity trays. The carrying capacity is 120KG, and the collection efficiency can reach 6 times that of the waiter's manual delivery

120L = 120 small dishes
39 large dishes
33 Bowls

120KG/ Collection

Most Adaptive

In the catering bussing scenario, the staff have to deal with a lot of greasy dishes and leftovers. Hola's inner cabin is the first in the catering industry to reach IPX5 waterproof, detachable and washable, convenient for staff to load and clean

Intelligent Bussing Robot
Multi-call Mode

In order to respond quickly to tasks, waiters can call HolaBot through various calling devices such as pagers, smart watches, pads, and gravity sensors. Task instructions can be issued to the robot from any of the following devices

Intelligent Bussing Robot
Air Motion and Voice Control

Air motion: cleaner and easier operation

The pioneering air motion control technology allows the staff to send HolaBot back to the bussing room by waving atop the sensing area of the robot with contactless

Voice control: Auto and intelligent

Front-end noise reduction technology and full-range sound source positioning. HolaBot is able to identify the location of the staff following the sound "Hey,Hola" and turn the tank around towards the table, thus facilitating dish collection and table cleaning

Safe, to be safer

3D obstacle avoidance technology, is the safety performance guarantee

3*RGBD camera

- 3* INTEL® REALSENSE™ RGBD camera
  Endows HolaBot with the best 3D perception ability
- Accurately detect obstacles and stop within 0.5 seconds in case of any obstacle
- Extra-wide front detection scope, the maximum is 360°
- Over 10 meters of front detection distance
- Able to detect the objects with a height as small as 20cm
- 5400 times of obstacle detection per minute at most

Safe, to be safer

The independent suspension system, ensures steady delivery

- Holabot's self-adaptive and adjustable suspension system, which meets vehicle standards, adjust to the best condition by changing damping and resonance frequency based on the road and moving conditions

- Be capable of crossing 1cm obstacles

- Deliver dishes with no-spill out

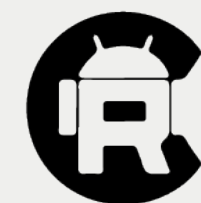- Improve the moving steadiness ability by 50%

A Comprehensive Collection of Certification

HolaBot can meet the requirement of certification such as EU CE certification, US FCC certification, Australian RCM certification, Taiwan NCC certification, Singapore IMDA certification, Japan MIC certification and China CR certification, ensuring that the robot is safe and compliant

3D Obstacle Avoidance Sensor

The RGBD camera at the neck part makes 3D obstacle avoidance acute

All-aluminum Body

Aviation-grade aluminum alloy that is structurally stable, antioxidant and corrosion resistant

Brand New Laser Radar

Customized laser radar with better detection accuracy

Visual Camera Positioning

Top infrared camera for real-time positioning, set up the complete visual positioning solution

120L Inner Cabin

120 small plates, 39 big plates and 33 bowls at the same time

Independent Suspension System

Independent suspension system, which meets vehicle standard, easily dealing with various of dump on the road

HolaBot Specification

Full size	534×542×1213(mm)
Total weight	50KG
Facade materials	ABS engineering plastics/ Aviation aluminium alloy
Charging time	4.5H
Service time	7×24H (replaceable battery)
Battery capacity	25.6Ah (safe levels of current in the human body)
Cruising speed	0.5-1.2m/s Adjustable
Load per tray	15KG/Tray

Friendly, Convenient and Professional

Thoughtful After Sales Service

1 year free warranty | Free Training | 7x12 Hours Service
IoT services: Solve over 90% technical issues online

Contact Us:

Email: global_sales@pudutech.com

Connect with Us:

Pudu Robotics

Pudu Robotics provides diverse training methods and tutorials

With a strong after-sales technical team, Pudu Robotics not only supports online installation training worldwide, but also provides diverse training materials
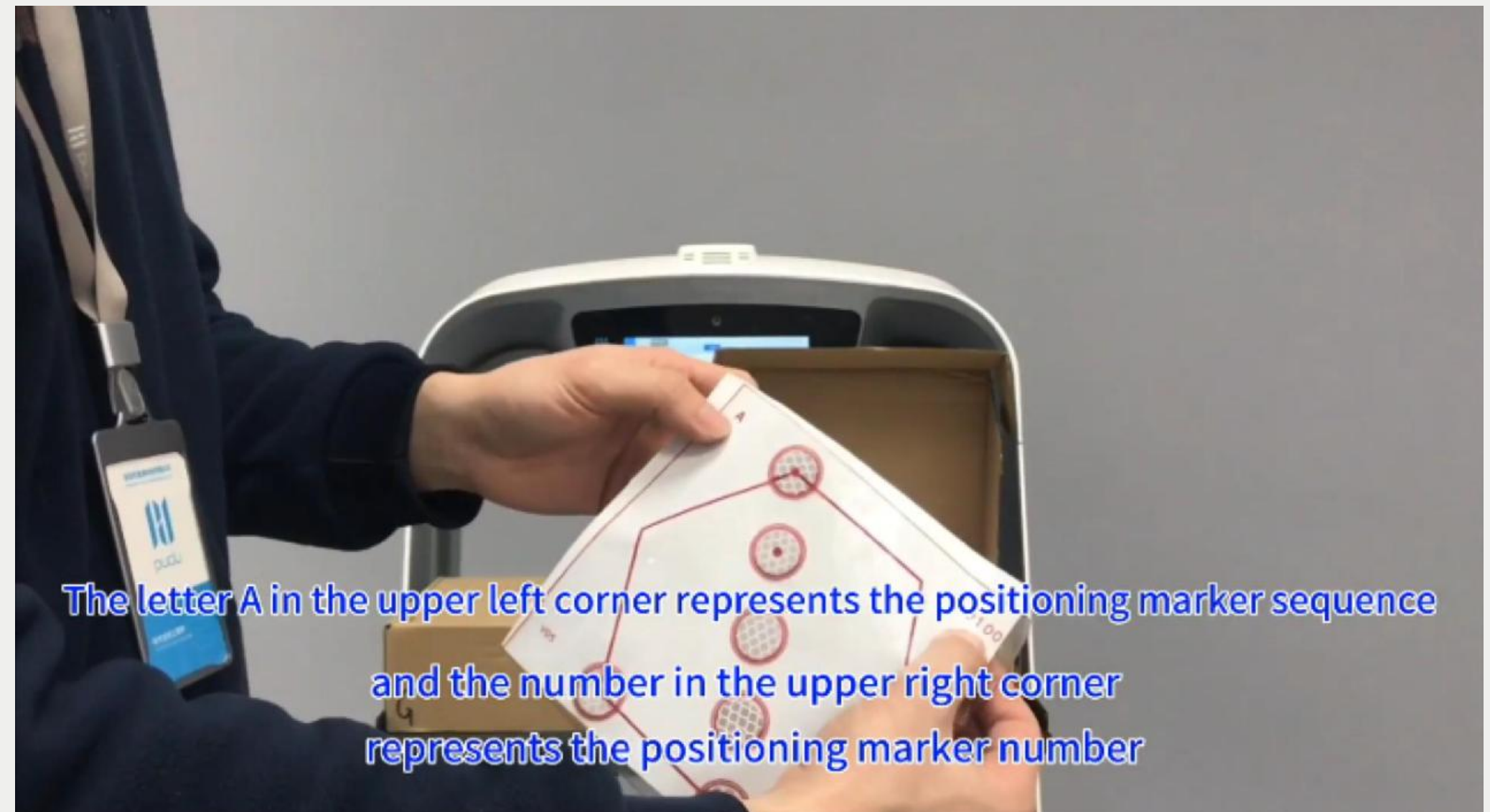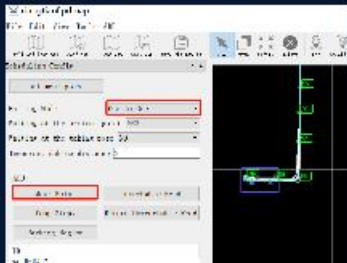

NO.2 sale: Robot installation and commissioning

2. Create Map

2.3 Draw a topological map

Check whether the location map path is consistent with the path that the actual robot needs to walk (the road accessible by the restaurant); Avoid missing certain roads; Draw a topological path along the location map path after confirming that the path is correct. Principle of drawing a topological path:
- Try best to along the static map path.
- Pay attention to the connection of the cross paths when drawing. A red circle will automatically appear when the mouse is placed on the path.
- Draw with multiple paths when there is a curved path.
- The length of a single path (between two nodes) needs to be >1.2m, and the distance between two adjacent paths is greater than 1.2m.
- The angle between the paths is >45°;
- The distance between the arrival point and path is <0.5m; The distance between the arrival point and node is greater than 0.2m.
- Pay attention to observe whether the robot's positioning has changed when push a robot to draw a topological map, and evaluate whether there is a positioning problem with the static map again.

NO.2 sale: Robot installation and commissioning

3. Docking point settings

3.1 Single robot fixed docking

When only one robot is deployed in a restaurant; it is only necessary to set a fixed docking point, and it is also necessary to set up a docking area. The specific operations are as follows:
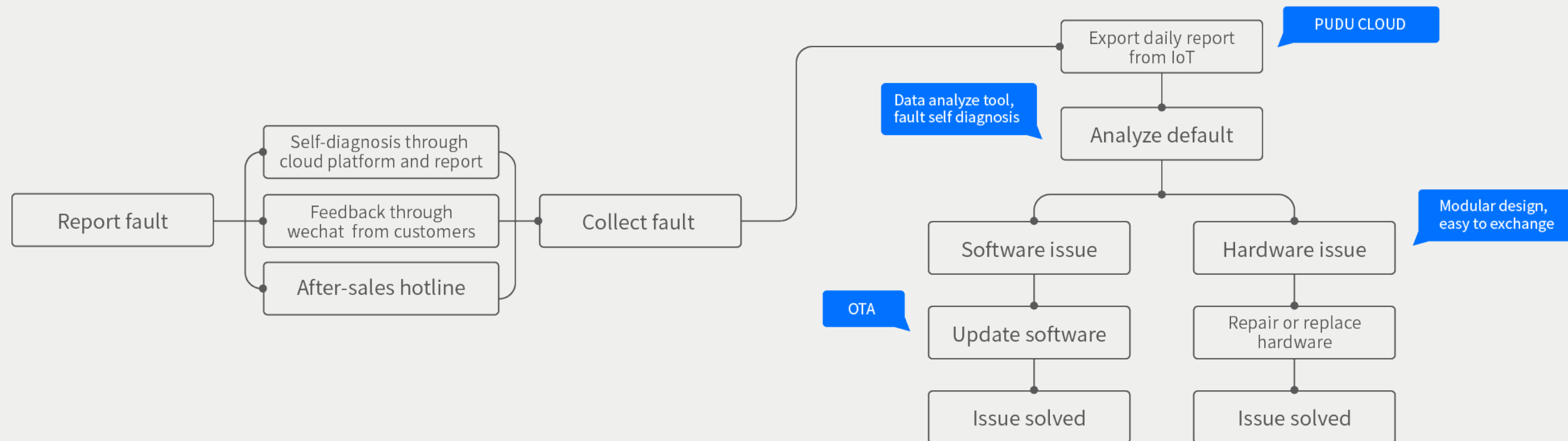1. Make sure the installation tool is connected to the machine, click 'watcher' in the toolbar, and push the robot to the designated stop.
2. Click "Meal point" button on the installation tool, and enter the "meal point" number in the pop up dialog box (default starts from 0). At this time, The 'meal point' will be showed in the right picture.
3. the docking mode select "One to One Mode".
4. Send map.

The letter A in the upper left corner represents the positioning marker sequence and the number in the upper right corner represents the positioning marker number

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

PUDU Open Platform

The platform allows the developers to issue commands via the interfaces, rather than the robots

RESTfullSDK

RESTfullSDK requires the online cloud service from the client, making the communication between PUDU Cloud and the clients' cloud possible via RESTfullSDK, thus calling commands and receiving the status codes of the robots

SDK

SDK remote control solution

Remote control the robot
Input the task
Monitor the location and status of the robot
Obtain the task progress of the robot
Other information

AndroidSDK

Pudu provide the end-to-cloud AndroidSDK access solution AndroidSDK does not rely on the clients' business solutions. The users can develop the minitype applications via AndroidSDK, realizing direct call and control of the robot

Create Your Exclusive HolaBot

Customized Appearance

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

3-day production
- Modular production (needs confirmation-design-launch) takes 3 days at the fastest

Customized Voice Pack

Cute girls

Cute boys

Sweet girls

Active boys

Multicolor Marker

Notes: The colors are subject to the actual marker