

ATEAGO S3 ROBOT CHASSIS



Product introduction

ATEAGO S3 robot chassis has multiple functions such as visual positioning, indoor navigation, and intelligent obstacle avoidance. It is mainly composed of core hardware such as lidar sensors, depth cameras, anti-drop sensors, and modular positioning and navigation systems. There are more laser SLAM and V-SLAMThe sensor fusion algorithm can plan the robot walking route more flexibly.





·Visual virtual wall editing, control the robot's range of activities

 Centimeter-level indoor map construction to improve robot navigation efficiency

·Fast obstacle avoidance in 0.5 seconds, intelligent and safe

- · Large carrying capacity of more than 60 kg
- \cdot Global unique remote and convenient deployment capabilities
- Elevator control system IOT, autonomous ride on elevator (optional)
- · Autonomous charging, worry-free battery life
- Fully open platform, customize and upgrade according to actual needs



Product function

Large carrying capacity

60 kilograms of oversized cargo,Stable without deformation

Intelligent obstacle avoidance in seconds

Lidar SLAM positioning and navigation Obstacle avoidance is more flexible

Original remote deployment capability

Remote automated deployment,Convenie nt and efficient

Automatic return to charging

Battery is below minimumautomaticall y return to thecharging station to charge

Take the elevator autonomously (Scalable)

Can be linked with the elevator control system, Work across floors, more worryfree

Large load

Intelligent obstacle avoidance in seconds

Remote navigation deployment

Automatic return to charging

Custom calibration position

Take the elevator autonomously (optional)

Multi-mode indoor driverless technology

Centimeter-level precise positioning

Scope of application

The open software and hardware platform of the robot chassis provides application development and full open source SDK access code, which is convenient for users Development, support remote map building and remote deployment, code debugging can be performed locally, and the code can be deployed to the cloud.Modular design, lower R&D costs, stable and reliable, cost-effective, and support customized services. Suitable for restaurants, Delivery of items in hospitals, ktv, hotels, etc.



KTV item delivery

Hotel item delivery



Structural components





Product number: ATEAGO S3	Life time: 6 hours
Cruising speed: 0.1~1m/s	Charging time: 4 hours
Battery capacity: 37V 20A·H	Rated power: 70W
Universal wheel size: 3 inches	Product weight: 34KG
Machine size: 540(L)*360(W)*360(H)MM	Bearing weight: 60KG

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System parameters

Operating system, processor, memory characteristics		
Product number	ATEAGO S3	
operating system	android (5.1)	
Bearing weight	60KG	
Processor type	RK3128 (Quad-core Cortex-A7, frequency up to 1.2GHz)	
Built-in clock	RTC	
RAM LPDDDR3	1G	
Built-in NAND FLASH	8GB	
USB debugging port	Micro USB 2.0 interface	
Power button	One-key boot	
Emergency stop button	Emergency stop button	
Display screen	7 inches, IPS screen (16:9)	
Resolution	1024X600	
External I/O port	1个 USB 2.0 (MICROUSB) , RJ45 network port	
Speaker	4Ω/3W mono speaker	
Wireless technology AP6255	Support dual frequency 2.4&5G WIFI 802.11b/g/n Wireless local area network, 11ac 5.15GHz-5.825GHz	

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Accessory parameters

ROS NAVIGATION SPECIFICATIONS, MACHINE SPECIFICATIONS, POWER SYSTEM

operating system	LINUX
Processor type	Computer motherboard I5 ITX-H45-I526LVER: 1.1A (4300U) with dual network ports
hard disk	32G
RAM	4G
motor driven	5.5 inch hub motor
Gyro	9-axis high-precision attitude sensor
Single-line lidar	Laser wavelength 905 nm working area 270 degrees
4G router to 2.4GWIFI	4GCPE-M6 / 2.4g WIFI / Netcom 4g
512AN_HMW Module Intel's WIFI	Support dual frequency 2.4&5G WIFI&BT4.1 802.11b/g/n Wireless LAN, 11ac 5.15GHz-5.825GHz
type of battery	Battery pack 10S8P capacity 20800 mAh/37V
Battery life	6 hours
Power Adapter	Input: AC100-240V.50-60HZ Output: DC42V 3A
Charging pile	Output rated voltage: 42VDC, output rated current: 3A
Charging pile parameters	Overcurrent protection, intelligent power off
product weight	34kg
Overall size (mm)	540mm(L)×360mm(W)×360mm(H)



Operation instructions

Note:

The Wifi for robot cannot contain Chinese, spaces or other special symbols in the Wifi name.

Step1: Open "Settings"-"WLAN" on the Android screen to connect to Wi-Fi

Step 2: Build a map and establish a robot working environment

Step 3: Edit the virtual wall to limit the robot's active area

Step 4: Positioning QR code deployment, assisting machine positioning

Step 5: Calibration location, the calibration location must be at least 50 cm away from surrounding obstacles and virtual walls

Step 6: If there is no delivery task for a long time, you can click "Charge" and the machine will automatically return to charge



Precautions





Contact us

Thanks You!

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