



KQ-AGV01

cleanroom intelligent inspection robot

The KQ-AGV01 cleanroom intelligent inspection robot is a new generation of products independently developed by our company. This product realizes robot map creation and motion navigation through SLAM technology, enabling it to independently complete inspection tasks. At the same time, it is equipped with high-precision sensors that can real-time detect environmental parameters in the cleanroom, such as airborne particles, temperature, and humidity.

The KQ-AGV01 processes and analyzes the detected data through a built-in algorithm, promptly identifies abnormal situations, and provides data support for the optimized management of the cleanroom. Operators can remotely control the robot via mobile phone or computer, which greatly improves the inspection frequency and efficiency, avoids pollution risks caused by manual detection, and reduces the company's operating costs.

- Efficiency Improvement: The robot can work continuously, greatly improving the inspection frequency and efficiency.
- Cost Reduction: Reduces labor input and lowers the company's operating costs.
- Accurate Detection: High-precision sensors enable real-time monitoring and accurate analysis of data.
- Safety and Reliability: In special environments such as cleanrooms, the stability and reliability of the robot are far superior to manual work, avoiding pollution risks caused by manual detection.
- Preventive Maintenance: Through data analysis, potential problems of equipment can be predicted, realizing preventive maintenance and improving production efficiency.



Product Features

- Autonomous Navigation: Realizes map creation and motion navigation through SLAM technology, enabling the robot to independently complete inspection tasks.
- Intelligent Detection: Equipped with high-precision sensors to real-time detect environmental parameters in the cleanroom, such as airborne particles, temperature, and humidity.
- 24/7 Operation: Works online 24 hours a day, 7 days a week, automatically returns to charge when the battery is low, and the system dispatches other robots to continue working.
- Scheduled Tasks: Can independently set scheduled tasks, including sampling points, sampling data, sampling times, and sampling frequency; the robot will automatically perform the tasks and upload data.
- Data Analysis: Processes and analyzes the detected data through a built-in algorithm, promptly identifies abnormal situations, and provides data support for the optimized management of the cleanroom.
- Remote Control: Operators can remotely control the robot via mobile phone or computer to conveniently and quickly complete inspection tasks.
- Alarm Push: When the detected data is substandard, abnormal information is immediately pushed to technicians via email to remind them to confirm on-site and take corresponding measures in a timely manner.
- Web Dashboard: The data monitored by the robot can be uploaded to the dashboard in real time, and customers can also remotely issue execution tasks to the robot.

Technical parameters

Product Parameters	Model	KQ-AGV01
Overall parameters	Dimensions (mm)	530*530*1100
	Wheelbase (mm)	372.1
	Climbing performance	3°
	Curb Weight (kg)	90kg
	Driving speed	0-1m/s
	Communication Mode	WIFI
Operating environment parameters	Operating ambient temperature	0-45°C
	Operating environment humidity	10%-85%, no condensation
Battery parameters	Battery type	Lithium iron phosphate
	Voltage (V)	25.6V
	Battery capacity (Ah)	30Ah
	Charging	0.5C
Cleanroom usage environment	Cleanroom grade range	Class 10, Class 100, Class1000, Class 10000, Class100000
Feature Support	Feature Support	Dust monitoring, temperature and humidity monitoring, wind speed monitoring, oxygen concentration monitoring, noise monitoring, hazardous gas monitoring; material distribution.

Inject Soul Into The Cleanroom



Suzhou Kangqi Environment Technology Co.,Ltd

Tel: 400-728-7728

Web: www.kqet.com.cn

E-mail: sales@kqet.com.cn

Add: 2nd Floor, Building E, No.60 Chuangye Street, Suzhou High tech Zone