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Qianxing Robot Automatic Navigation Driving System

Product Description

This comprehensive intelligent device navigation product integrates BDS navigation, autonomous driving, obstacle avoidance, and IoT technologies. It primarily consists of a navigation computer, obstacle avoidance radar, IoT module, and dual antennas. Its high degree of integration reduces the need for tradi tional navigation smart tablets, seamlessly merging with equipment to improve product reliability. The self-adaptive navigation algorithm enhances stability in challenging environments such as urban areas and farmlands. Specializing in intelligent equipment navigation, the product can be applied in agriculture, industry, and military sectors. When paired with the Shangyida BDS Intelligent Monitoring and Manage ment Platform, it supports multi-machine formation, real-time data monitoring, big data analysis, and other features, helping customers quickly seize market opportunities and gain a competitive edge.

Performance Characteristics

- ◆ APP intelligent operationAPP intelligent operation
- One-click automatic U-turn
- View job progress in real time
- U-turn autonomous driving
- Cloud RTK high-precision navigation



Product Features

- The error of BDS RTK navigation operations is within \pm 2.5cm, ensuring more accurate trajectory maintenanc
- The system can permanently store, memorize, and automatically summarize job information for later retrieval and use.
- It can be applied to different terrains, various operation modes, different agricultural machinery, and diverse working environments.
- Fully automatic control, precise navigation, unaffected by weather conditions, enabling uninterrupted 24-hour operation around the clock.
- Convenient installation, plug and play, simple operation, intuitive and clear.
- 6 Supports remote parameter adjustment and remote control, enabling rapid response and decision-making in frontline situations.
- Supports multi-vehicle formation, remote control, and big data analysis (requires installation of BDS Intelligent Monitoring Integrated Management Platform).
- Upgradable online, saving manpower/effort/time/tools, allowing users to easily and quickly enjoy the latest software features and optimal services.

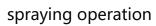
Product Parameters

Project name		Details
	Size	200*150*80mm
Physical dimensions and	Weight	1300g
electrical characteristics	Input voltage	12V
	Power consumption	<5W
IMU performance indicators	Gyroscope type	MEMS
	Gyroscope input range	±500°/s
	Gyroscope bias stability	2.5°/h
	Accelerometer range	±8g
	Accelerometer bias stability	1mg
Environmental indicators	Operating temperature	-10°C- + 60°C

	Storage temperature	-50°C- + 80°C
	Humidity	95% non-condensing
	Vibration	MIL-STD-810G (40g)
	Protection level	IP65
GNSS indicators	Satellite system	BDS: B1、B2
	GNSS data update rate	5Hz、10Hz
	Heading accuracy	0.2°/m
	Combined navigation data update rate	100Hz
Communication interfaces	4G, BLE, 网口 (Ethernet), CAN, 485	

Application Scenarios







inspection operation



mowing operation