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Intelligent Inspection Robot (1ITE-A / 1IWE-A)

Product Description

An intelligent robot platform for outdoor scenario inspection and early warning.

The Intelligent Inspection Robot integrates automatic walking, obstacle avoidance, scanning, data upload, and alarm capabilities, providing an intelligent solution for outdoor inspection scenarios. The product incorporates infrared thermal imaging and high-definition camera technology, enabling precise inspection and information collection of targets. Real-time data upload and anomaly alarms are facilitated through wireless communication, helping users enhance inspection efficiency and on-site safety management capabilities.

The platform-based design provides strong expandability, allowing the matching of top-mounted configurations, sensors, and dispatching systems according to different environments and needs.



Application Scenarios:

Park inspection, orchard inspection, outdoor facility inspection, equipment monitoring and security patrol, special environment inspection.

Product Features

- ✓ Dual perception: infrared thermal imaging and high-definition camera.
- ✓ Real-time data upload and anomaly alarm.
- ✓ Supports expansion with multiple navigation and control methods.

- ✔ Enables efficient inspection and safety early warning.
- ✔ Supports unmanned operation, high-precision control & multi-machine collaboration, and integrated intelligent obstacle avoidance.
- ✔ Supports custom top-mounted configurations based on needs, adapting to various operational scenarios.

Product Parameters

Item		Tracked Robot	Wheeled Robot
Overall Dimensions (L × W × H)		41.3×31.5×33.5 (1050 × 800 × 850) in. (mm)	34.4×33.7×28.0 (875×855×710) in. (mm)
Weight		518 (235) lbs. (kg)	≈309 (140) lbs. (kg)
Speed		0 - 5(0 - 3.1)km/h (mph)	0 - 7.236 (0 - 4.496)km/h (mph)
Obstacle-Crossing Height		7.87 (20) in. (cm)	5.9 (15) in. (cm)
Power Supply		48 VDC	48VDC
Continuous Operation Time		> 2 h	>2.5 h
Drive Motor		1000 W×2 units	400 W×4 units
Optional Configurations (Customizable)	Obstacle Avoidance Sensors	Ultrasonic Sensor, LiDAR Obstacle Avoidance, Infrared Sensor	
	Navigation Method	Inertial Navigation, GPS Navigation	
	Dispatching System	Host Computer Software Scheduling System	
	Autonomous Navigation Control	Customizable Based on Environment; Automatic Control System	
	Manual Navigation Control	Remote Control, Wireless Remote, Tablet / PC Operation	
	Communication Methods	Wireless / Wired / Multi-band Modules	

Application Scenarios



Factory Inspection



Orchard Inspection



Campus Inspection