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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 gathering of targets. Real-time data upload and anomaly alarms are facilitated through wireless communication, helping users enhance inspection efficiency and on-site safety management levels.

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

Application Scenarios:

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

Product Parameters

	Project name	Unit	Details
/	Dimensions	mm	1050*800*850
	Weight	KG	235
	Speed	Km/h	5
	Obstacle-crossing height	cm	20
	Obstacle avoidance distance	m	0-0.1
	Servo motors	W	1500W/2unit
	Power supply	VDC	48
	Continuous operation	h	> 3
Optional configurations (customizable)	Navigation method	/	Inertial navigation,BDS navigation, laser navigation
	Obstacle avoidance sensors	/	Ultrasonic radar, laser obstacle avoidance device, infrared sensor
	HD imaging	/	Real-time monitoring display
	Temperature detection	/	Real-time temperature detection and alarm
	Dispatch detection	/	Host computer software scheduling system
	Automatic navigation control	/	Customizable according to the environment, automatic control system
	Manual navigation control	/	Remote control, wireless remote control, tablet/computer
	Communication method	/	Wireless, wired, multi-frequency band modules

Application Scenarios



Factory Inspection



Orchard Inspection



Campus Inspection