



SpartanLync
TECHNOLOGIES

Patrol and Inspection Robot

For Mining and Industrial Applications

Designed for substations and other power-related facilities, this robotic solution offers an automated inspection together with AI-driven diagnosis, improving O&M efficiency.



**Asset & Facility
Defect Recognition**



**Auto-Inspection &
Obstacle Avoidance**



**Multiple Gas
Sensors**



**Automated/Manual
Switchable Mode**

Product Features



All-terrain Mobility with Adaptive Platform

Armed with big wheels and shock absorbers, this solution offers 4W8D omnidirectional mobility over rugged road condition. The robot can perform sports car maneuvers through narrow spaces with a maximum speed of 4m/s.



Bi-Spectrum PTZ Clear Vision

Gifted with a Bi-spectrum Pan-Tilt-Zoom of 2560p optical camera and 7.5mm focal length thermal camera, this robot can detect minor changes in equipment status.



Compatibility with Add-on Sensors

The robot's modular design can accommodate a wide range of sensor customization. Furthermore, our edge computing power can support complicated analysis based on data collected by various sensors.



Triple Navigation Guaranteed Arrival

Combining LiDAR, Inertial, and Satellite, our road-finding system achieves a positioning accuracy of $\pm 10\text{mm}$, enabling an optimal inspection route to be planned & executed.

Product Parameters

Size (mm)	870 x 540 x 745
Platform	4W8D
Weight (kg)	$\leq 100\text{kg}$
Temperature	-20 to 60°C
Battery Life	6 hours
Charging	Wireless
Comms	WiFi/4G/5G Optional
Protection	IP66
Mobility	Max Speed 4m/s Max Grade 80mm
Extension	4WIS, 360 avoidance, Controller Satellite Ping, 2-way Speaker

Use Cases

This solution has been deployed on many locations subject to high & low temperatures, humidity & dust and poisonous gases in some occasions. It conducts autonomous rounds on equipment, ensuring the safety of O&M personnel by removing them from on-site patrol.

Substation

- Outdoor
- Scattered
- Electromagnetic

Boiler / Turbine

- Indoor
- Corrosive
- Hazardous Gas

Blast Furnace

- Indoor
- Extreme Temp.
- Poisonous CO