

# Autonomous Industrial Inspection Robot

All-weather, all-terrain inspection version for industrial sites

## Product overview

An industry-grade autonomous quadruped inspection robot combining high-performance edge computing, 360° multimodal perception, IP67 protection and wheel-leg mobility for routine patrols, equipment monitoring and mission logistics.



**Dual 96-line**

LiDAR

**4 fisheye**

cameras

**1000 Wh**

battery

**IP67**

all-weather

## Core platform specifications

<b>Version modes</b>	Point-foot for unstructured terrain; wheeled-foot for high-speed structured spaces
<b>Dimensions standing</b>	900 x 543 x 572 mm
<b>Weight with battery</b>	61 kg point-foot / 62 kg wheeled-foot
<b>Computing platform</b>	NVIDIA Jetson Orin AGX 64G + RK3588
<b>Compute performance</b>	275 TOPS total computing power
<b>Perception sensors</b>	Dual 3D LiDAR + four fisheye cameras
<b>LiDAR configuration</b>	Dual 96-line LiDAR standard; dual 192-line upgrade available upon request
<b>Maximum joint torque</b>	165 Nm
<b>Battery capacity</b>	1000 Wh
<b>Operating time</b>	2-2.5 h point-foot / 2-3 h wheeled-foot
<b>Continuous payload</b>	20-30 kg
<b>Single-charge range</b>	Up to 14 km depending on configuration and environment

## Mobility, environment and deployment

<b>Maximum speed</b>	Up to 5 m/s in wheeled-foot configuration
<b>Maximum step height</b>	30 cm point-foot / 25 cm wheeled-foot
<b>Climbing capability</b>	Up to 80 cm obstacle capability
<b>Slope capability</b>	25 deg ascent / 45 deg descent point-foot; 30 deg ascent / 45 deg descent wheeled-foot
<b>Operating temperature</b>	-20°C to 55°C
<b>Cold-start capability</b>	Below -10°C
<b>Ingress protection</b>	IP67
<b>Autonomous navigation</b>	Supported
<b>Connectivity</b>	4G + Wi-Fi 6 + Bluetooth
<b>Interaction</b>	Voice interaction and autonomous following supported
<b>Optional accessories</b>	Charging station, delivery box up to 30 kg and dual-spectrum inspection gimbal
<b>Primary applications</b>	Industrial inspection, power stations, campuses, logistics hubs, security patrol and equipment monitoring

## Specification note

Performance data is based on supplied laboratory/product material. Actual results vary by environment, payload, configuration, terrain and deployment conditions.