

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

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

Mobility, environment and deployment

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