GATEIN TECHNOLOGY
جيت ان تكنولوجي

PRODUCT PRESENTATION · 4WS 4WD PLATFORM

RANGER

150 kg 4WS 4WD Mobile Robot

Mechanical design of a 4-wheel independent drive and steering mobile robot platform.

Presented by GateIn Technology · Exclusive AgileX partner in Egypt



Ranger 4WS4WD chassis



Four-wheel steering, four-wheel drive

Built-in industrial computer, LiDAR, camera and IMU; rich interfaces for common hardware and development platforms.



Released body space, modular combination

Strong, durable and simple; carries 150 kg for building your own products.



Flexible four-wheel steering

In-situ spinning, Ackermann, traverse and crab steering for isolated, semi-enclosed and enclosed spaces.



Modular UPS with hot-swapping

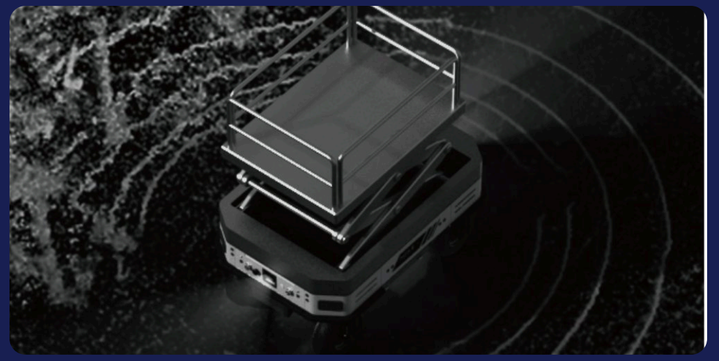
Swap batteries while running; redundancy doubles system reliability.

Safe, smart autonomous operation



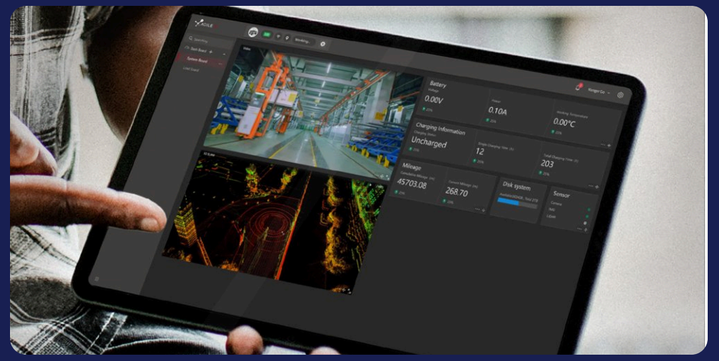
Pedestrian-vehicle mixed scenes

LiDAR, camera and ultrasonic sensors for omnidirectional perception in parks, industrial parks and garages.



Intelligent scheduling, multi-point paths

Autonomous planning and navigation, line tracking and multi-point route planning.



NAVIS navigation visualization

NAVIS SLAM cloud navigation: map management, task execution and change, open API.

RANGER Parameters

Parameter	RANGER
Size · wheelbase · track	1228 × 876 × 475 mm · 560 mm · 890 mm
Power	48 V brushless geared hub motor · 600 W × 4 · 22 N·m × 4
Speed · drive form	0–2.6 m/s · omnidirectional
Obstacle · climbing	100 mm (full load, vertical obstacles) · 10°
Weight · load	100 kg · 150 kg
Endurance · charging	2–8 h · 1 h (single battery)
Battery	Lithium, 24 Ah per battery (up to four), 48 V
Applications	Engineering survey, energy inspection, intelligent security, logistics distribution

GateIn One accountable partner

We don’t just ship the RANGER. GateIn designs, supplies, installs, integrates and supports AgileX solutions for universities, schools, government and industry, from the first plan to long-term support.

+120
ROBOTS SUPPLIED IN EGYPT
Industrial, service and educational

91
LABORATORIES
Across 45 institutions

+30
STRATEGIC & GLOBAL PARTNERS

5
YEARS OF DELIVERY
Since 2021

Design | Sourcing | Installation | Integration | Training | Long-term Support

An integrator, not a vendor.

Exclusive AgileX partner for Egypt

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Let’s plan your RANGER deployment

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