

AGIQUAD D1 MaxPro

Intelligent Quadruped Robot



The D1 MaxPro is a next-generation quadruped robot that combines exceptional capacity with outstanding mobility. Powered by reinforcement learning-based motion-control algorithms, it offers genuine all-terrain adaptability. Built-in environmental perception modules enable it to tackle demanding industrial inspections and emergency rescue missions with ease.

KEY FEATURES

Exceptional Payload Capacity

Carries up to 50 kg continuously. Designed for heavy-duty applications such as equipment mounting, cargo transport, and material handling.

Endurance & Power Security

Equipped with a 2081Wh high-capacity battery featuring exceptional energy conversion efficiency. Delivers 2 hours of continuous operation under load and up to 5 hours when unloaded—an industry-leading benchmark. A quick-release, hot-swappable battery ensures uninterrupted performance, with an optional autonomous charging dock available.

Superior Mobility

Built for agile, all-terrain adaptability. Effortlessly climbs 30 cm steps and traverses industrial staircases with ease. Integrated fall-recovery mechanisms enhance stability and reliability in dynamic environments.

Robust Environmental Adaptability

Rated IP67 for industrial-grade protection. Operates reliably in extreme conditions, from -20°C to 55°C, and withstands water immersion up to 20 cm. Resistant to rain, dust, and severe weather—delivering dependable performance in the harshest natural environments.

SPECIFICATIONS

Standing Dimensions(L×W×H)	1270mm × 520mm × 730mcm	Effective Payload	50 kg
Total Weight	68±1 kg	Maximum Climbing Angle	45°
Battery Module	Power: 2081Wh; Rated Capacity: 45Ah, Voltage: 48v	Continuous Stair-Climbing Height	30cm
Autonomous Charging	Optional	LiDAR	1 unit
Maximum Speed ⁽¹⁾	3 m/s	Operating Temperature	-20°C ~ 55°C
Operating Time ⁽²⁾	5.5 h unloaded, 2h under 50kg load	Protection Rating	IP67
Operating Range	21±1 km unloaded, 11±1 km under load	Expansion Ports	Gigabit Ethernet, USB, Pohwer (12V / 24V / 48V / 720W)

Notes:

(1) The maximum speed data was obtained from extreme testing under laboratory conditions. For safety reasons, the speed has been limited by software; the actual product is limited to 2 m/s;

(2) Due to differences in testing methods and operating environments, the actual battery life is 5.5 hours ± 0.5 hours;

(3) The above parameters are based on laboratory test data. Actual performance may vary depending on factors such as the operating environment and usage patterns; please refer to actual results.

APPLICATION SCENARIOS



Official Website



YouTube

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