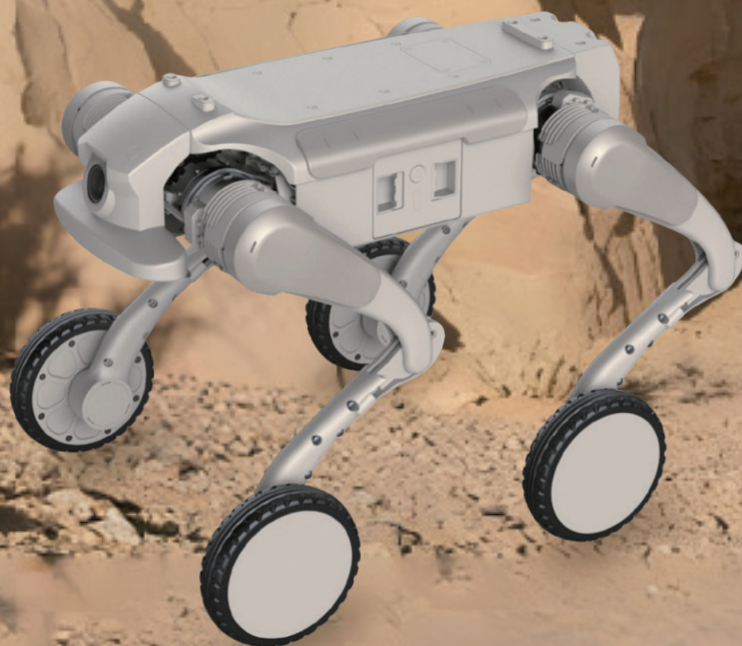


AGIQUAD D1 Ultra-W

Industrial-Grade Small-Sized Quadruped Robot



AGIQUAD D1 Ultra-W features a compact, lightweight wheel-leg body and AI motion control based on reinforcement learning. This combination provides dual advantages: high passability in narrow spaces and increased transit speed, enabling it to move quickly through corridors and among devices during security patrolling, and easily traversing gravel and shrubs in field exploration to improve mission efficiency. Furthermore, its secondary development capabilities cater to academic research needs, creating a truly efficient general-purpose mobile platform with significant research value.

KEY FEATURES

High-Functional Wheel-Leg Configuration

Equipped with a high-functional wheel-leg configuration, delivering exceptional power output enabling faster running. Powered by an industry-leading proprietary joint system with a peak power density of 2kW/kg, providing integrated intelligent motion control and supporting heavy payloads and long-duration missions to ensure stability and reliability across all scenarios.

Flexible Locomotion

Its lightweight design, combined with high-efficiency locomotion, allows its compact body to flexibly navigate narrow space and complex environment. It is widely applicable for tasks in multiple scenarios, including patrolling, inspection and guide dog assistance to ensure high efficiency, quality and output.

AI Reinforcement Learning Algorithm

Based on a reinforcement learning algorithm utilizing tens of millions of data points and combined with advanced motion control technology, the product is endowed with intelligent decision-making capabilities. It can adapt to complex terrains such as stairs and debris, and features self-balancing and rollover prevention capabilities, ensuring strong anti-interference and high reliability in missions.

Extensive Expansion and Customization Support

The product features standardized expansion interfaces that support secondary development and personalized customization. This allows for realization of functions like autonomous navigation and compatibility with multiple payloads to meet the needs of diverse applications and research.

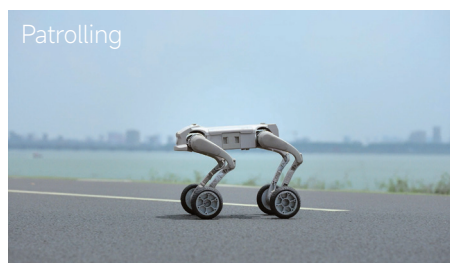
SPECIFICATIONS

Standing Dimension (L × W × H)	630mm × 430mm × 485mm	Continuous stair climbing height	16cm
Folding dimension (L × W × H)	690mm × 540mm × 165mm	Slope walking capability	In standard environment: 30°, with the maximum of 40°.
Weight	22kg (including battery)	Max. Velocity	3.7m/s
Battery	Rated capacity 4.6Ah and voltage 43.2V	Operating temperature	0°C - 40°C
Load endurance	1 - 2 h	Protection rating	IP54
Rated load	5kg	External expansion interface	Ethernet Port x1, USB Port x2 Power Port x2, SBUS Port x1, UART Port x1

Notes:

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

AGIBOT Innovation (Shanghai) Technology Co., Ltd
Website: <https://www.agibot.com/>
Email Address: business@zhiyuan-robot.com