

Jueying X20

Designed and built based on the user feedback from real-world application scenarios and DEEP Robotics' deep understanding of industry applications, Jueying X20 features strong load capacity and scalability, autonomous charging, all-scenario coverage, great computing power, and perceptual precision while operating flawlessly in adverse weather conditions. The quadruped robot provides protection in and around the perimeter of every kind of industrial or commercial facility, making it a more efficient and intelligent solution for industry applications with high-level requirements across a wide range of scenarios.



DEEP Robotics

DEEP Robotics is a technology company focused on smart quadruped robots, committed to achieving an efficient and smart future through the ultimate combination of motion control and AI.



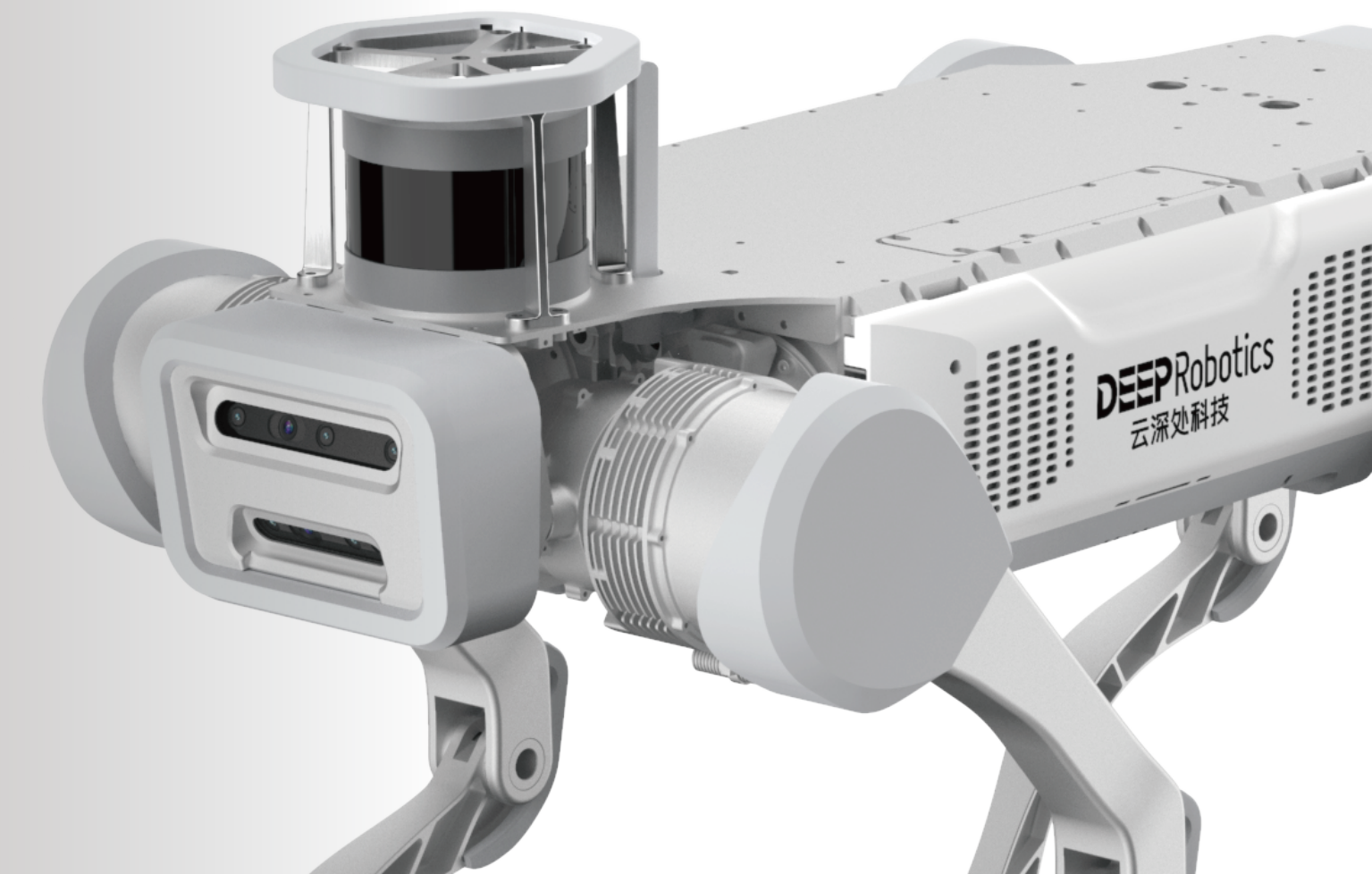
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DEEP Robotics

Jueying X20

Define a New Boundary for
Quadruped Robot Industry Applications

Security Inspection | Survey Exploration | Emergency Rescue



Jueying X20 Technical Parameters

Standing Dimension	1000mm*460mm*600mm	Protective Level	IP66(power on)
Gross Weight	50kg	Average Runtime	4h(with a load of 0 kg) 2h(with a load of 20 kg)
Safe Working Load	20kg		
Maximum Working Load	85kg	Average Mileage	15km (3.6km/h, with a load of 0 kg)
Maximum Speed	4.95m/s		
Motion Performance	Can step over a 20cm high obstacle or step Can walk normally on grasslands, stone loads and gravel roads Can climb a 35 degree slope		
Intelligent Perception System	Equipped with a depth-sensing camera and the laser radar ROS-based intelligent perception computing module and artificial intelligence module		
Environmental Perception (SDK optional)	Intelligent recognition for detecting target state 2.5D/3D map construction Autonomous Navigation and Dynamic Obstacle Avoidance		
External Power Interface	5V; 12V; 24V; 72V(BAT)		
External Communication Interface	Ethernet; WIFI; USB; RS485; RS232		
Optional Equipment	Support dual-light pan,robotic arm 4G/5G module BeiDou Navigation Satellite System/GPS/RTK		
Autonomous Charging	Supported		
Beyond-horizon Communication	Supported		

* All parameters are official test data, and there may be deviations in the actual operating environment.

* Support secondary development



Support dual-light pan, robotic arm,
5G communication, GPS, RTK and more modules



Strong Load Capacity

Strong Scalability

Long Endurance

Jueying X20 's wide peripheral platform supports the equipment with multiple interfaces for power supply and communications.



Autonomous Charging

Jueying X20 can operate for more than 2 hours with a load of 20 kg and for as long as 4 hours without a load. It could also charge autonomously.

Jueying X20's Core Functions & Advantages



Intelligent Perception

Jueying X20 can be equipped with a depth-sensing camera and the laser radar coupled with an intelligent algorithm, the robot enables trackless autonomous navigation, dynamic obstacle avoidance, terrain recognition, human-computer interaction.

Trackless Navigation

