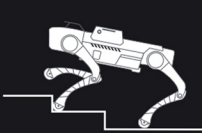# ASIMOV
STORES

IP67

Undaunted by extreme weather

As a flagship model for the industry, X30's operating temperature range has greatly increased. It has been successfully tested in real-world scenarios in temperatures from minus 20° C to plus 55° C. It has also been vigorously tested at the IP67 protection level.

Surmounting obstacles & responding promptly

X30 is capable of climbing up and down 45-degree stairs with unprecedented speed and a dexterous posture. It braves open-riser staircases with ease, responds to task requirements on the spur of the moment, and quickly adapts to more complex scenarios and blind spots.

Fusion perception lights up the darkness

Traditional inspection and rescue operations can take place at any time, day or night, when the lighting conditions on site are changeable and uncontrollable. With its fusion perception capabilities, X30 can carry out such tasks regardless of the light environment, be it over-bright, dim, flickering or even complete darkness.

Safe, efficient and highly collaborative

X30 uses light interaction to bring the controller up to speed about its working status. In the meantime, it autonomously avoids colliding into random moving objects. Coupled with an emergency stop button, X30 helps protect the safety of other parties and mobile platforms in industrial scenarios.

Extra-long endurance, quick battery swaps

X30 features a 25% increase in endurance when laden with mounts. On top of this, its battery has a quick-release capability to expedite battery changes. This design ensures that special tasks can be completed quickly, which is vital in the event of industrial emergencies.

Stable, reliable auto-charging

Problems such as lighting, grime and dust in various industrial scenarios can affect the efficiency of traditional charging solutions. DEEP Robotics has independently developed a new generation of integrated positioning solutions to ensure a smoother and more effective charging process.
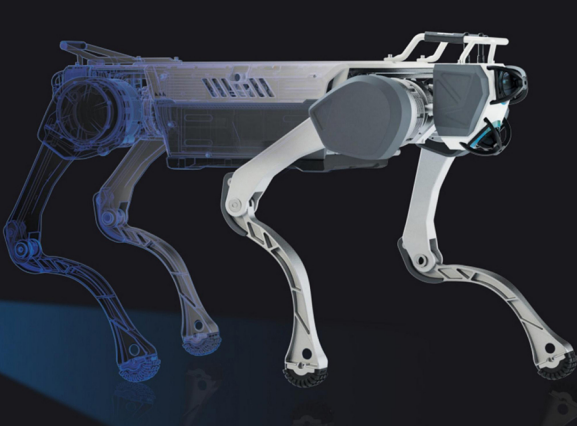
Standing size 1000*695*470 (mm)	Load ≥20kg
Weight 56kg (with battery)	Temperature -20°C ~ 55°C
Slope ≤45°	Endurance 2.5h ~ 4h
Protection IP67	

* All parameters are laboratory data, operating in real environment may have difference.
* Support for secondary development
* The product is subject to the actual delivery, and DEEP Robotics reserves the right of final interpretation.

01 Stair climbing perception **02** Auto-charging

03 Obstacle stop

| Standing size 1000*715*470 (mm)	Load ≥20kg
Weight 59kg (with battery)	Temperature -20°C ~ 55°C
Slope ≤45°	Endurance 2.5h ~ 4h
Protection IP67	

* All parameters are laboratory data, operating in real environment may have difference.
* Support for secondary development
* The product is subject to the actual delivery, and DEEP Robotics reserves the right of final interpretation.

04 Fusion calibration algorithm **05** Multi-sensor fusion mapping algorithm

06 Multi-sensor fusion localization algorithm **07** Navigation planning algorithm

08 Industrial level navigation interface (12V 24V power supply) **09** Smart light interaction interface
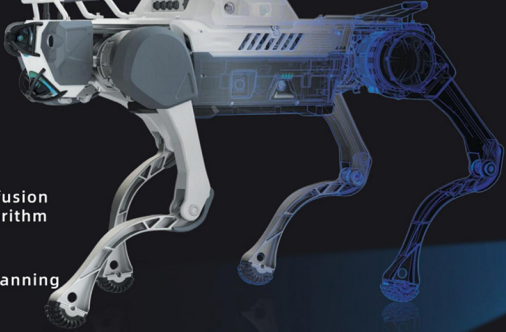
Applications.

Power Patrol Inspection

DEEP Robotics' quadruped robots are currently conducting unmanned inspections in various substations and underground cable tunnels worldwide. They are replacing manual, high-intensity, and repetitive inspection tasks in adverse weather and environmental conditions.

Emergency Rescue

DEEP Robotics' quadruped robots has been delivered to multiple domestic fire brigades. In the future, they can assist rescue personnel in conducting reconnaissance work in post-disaster rubble, unstable buildings, and environments with toxic substances, chemical contamination, and oxygen depletion, providing valuable support in challenging and hazardous situations.
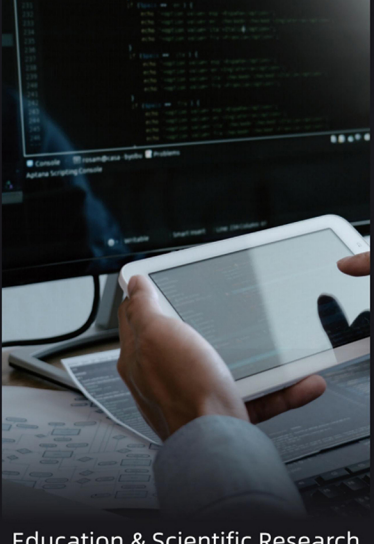
Education & Scientific Research

DEEP Robotics' quadruped robots have open-modular structure and interface, which supports the advanced development of robots in education and scientific research; they meet different research needs and help users broaden their research directions.