

# X30

A Flagship Product Born for the Industry



# CATALOG

01.

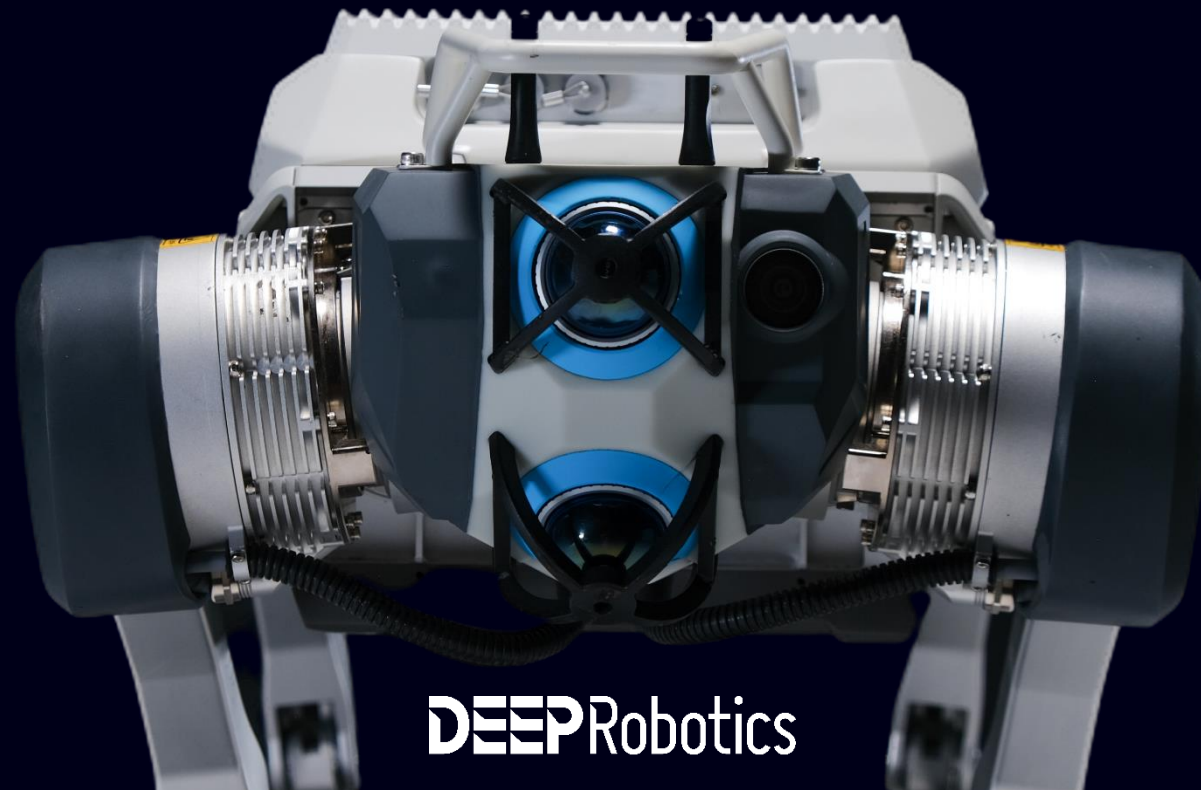
*Core  
Functions*

02.

*Product  
Info*

03.

*Applications*



DEEPRobotics

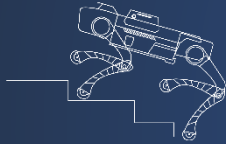
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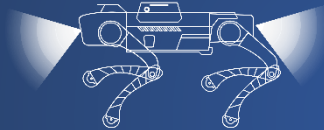
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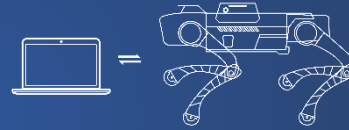
Undaunted by  
extreme weather



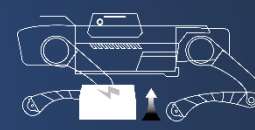
Surmounting obstacles,  
responding promptly



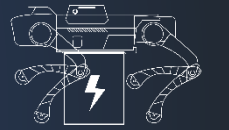
Fusion perception  
lights up the darkness



Safe, efficient and  
highly collaborative



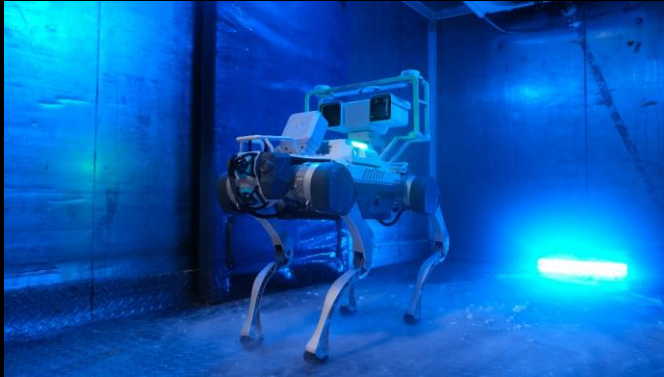
Extra-long endurance,  
quick battery swaps



Stable, reliable  
auto-charging

# Core functions.

DEEP Robotics **01.**



## Undaunted by extreme weather

Temperatures can vary markedly through the seasons and in different regions, and this needs to be taken into account when planning for outdoor inspection and rescue work. 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

During the implementation of inspection, security, rescue and other tasks, 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.



# Core functions.

DEEPRobotics 01.



## 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

An extra-long battery life is standard a shared expectation for industry-level quadruped robots in many scenarios. 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.

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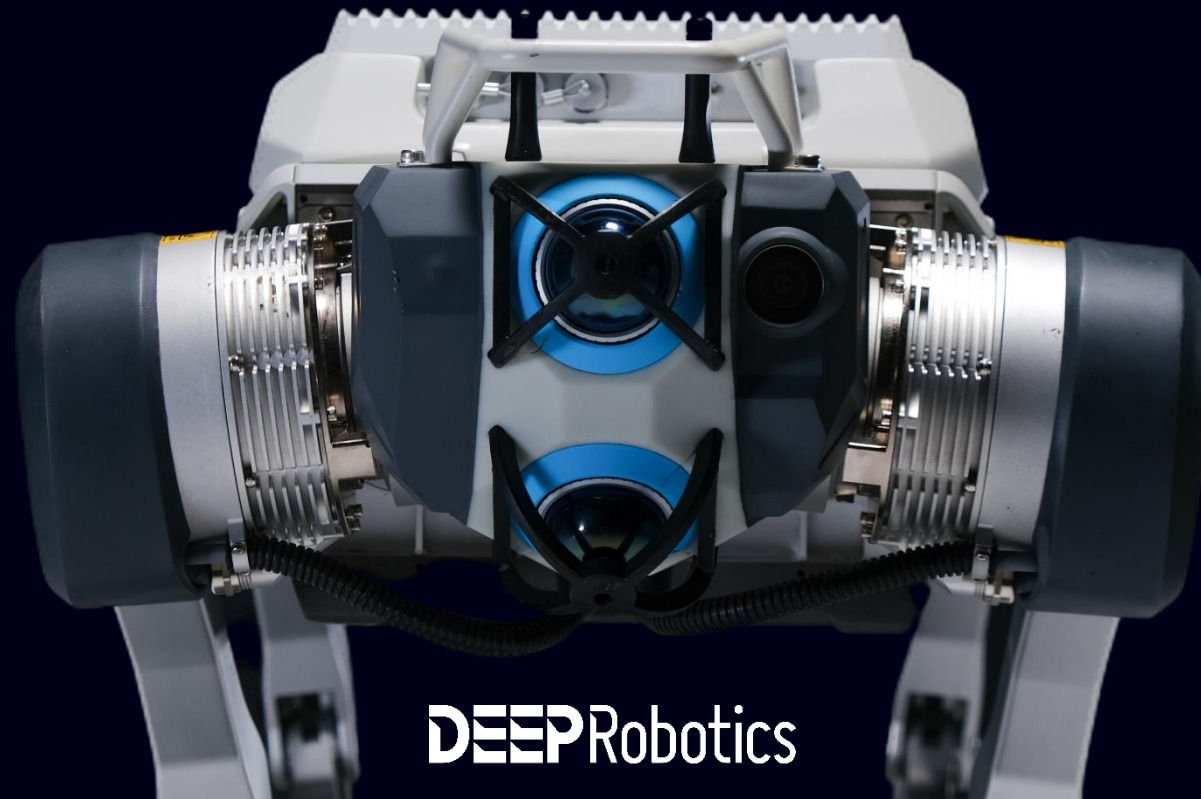
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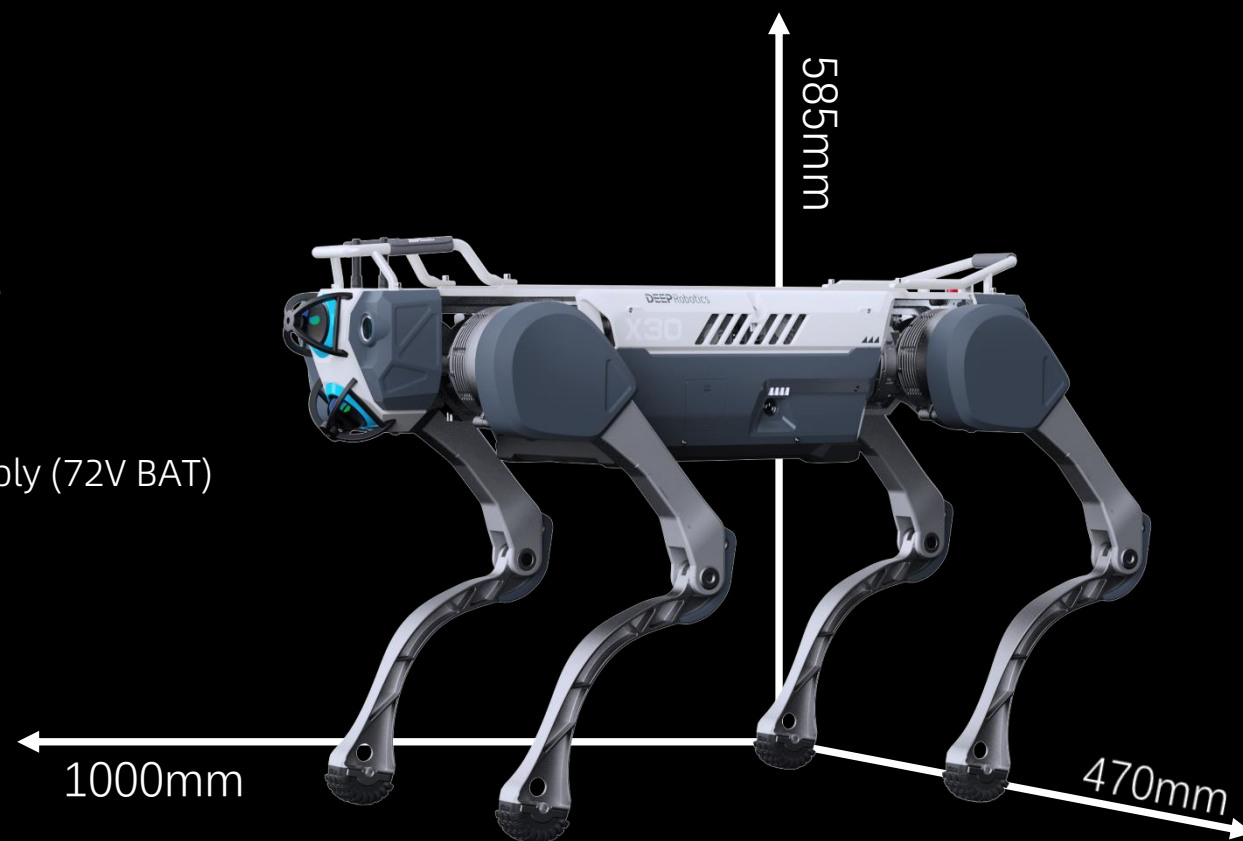


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# Product info.

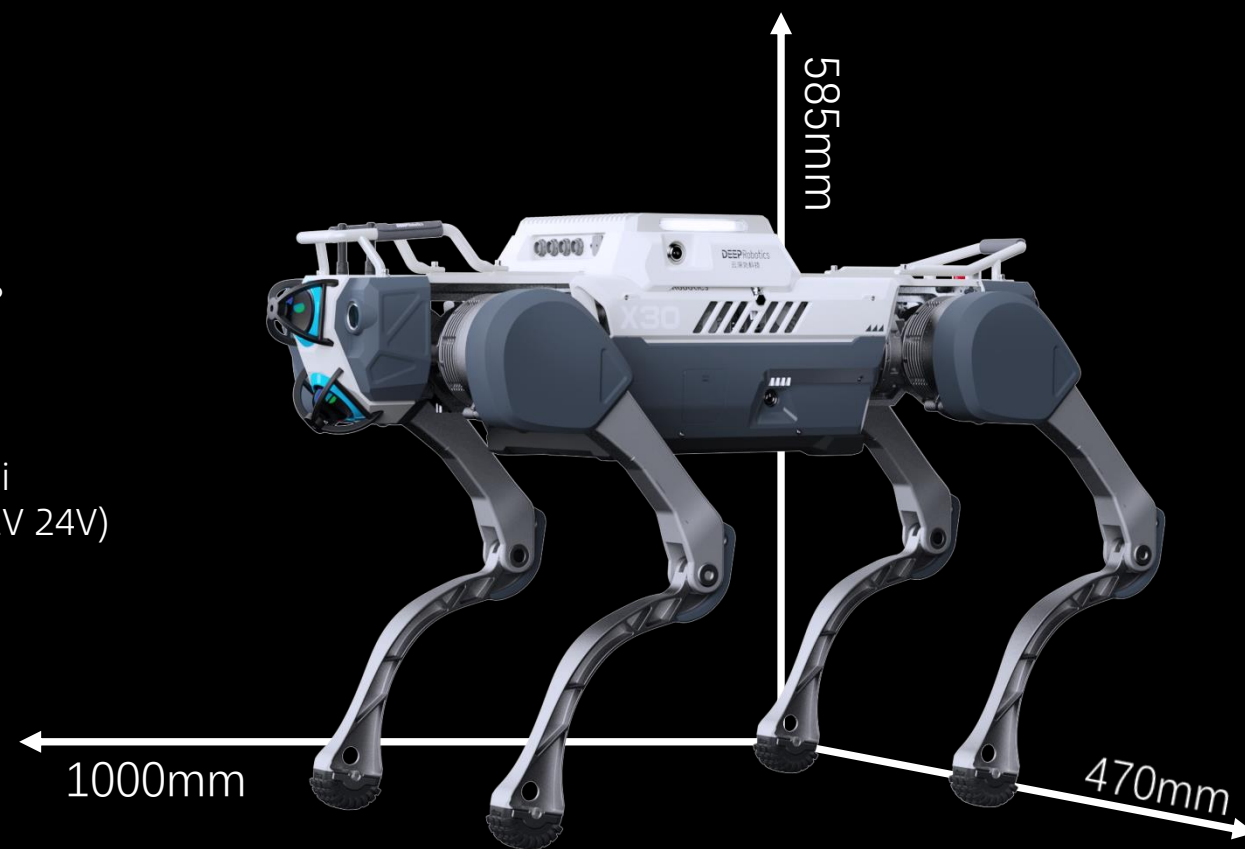
## X30

Weight:	56kg	Standing size:	1000*585*470(mm)
Max. Speed:	≥4m/s	Endurance:	2.5-4h
Protection:	IP67	Mileage:	≥10km
Slope:	45°	Temperature:	-20° ~ 55°
Load:	≥20kg	Interface:	Ethernet Output power supply (72V BAT)
Step/Obstacle's H:	≥20cm		



## X30 Pro

Weight:	59kg	Standing size:	1000*585*470(mm)
Max. Speed:	≥4m/s	Endurance:	2.5-4h
Protection:	IP67	Mileage:	≥10km
Slope:	45°	Temperature:	-20° ~ 55°
Load:	≥20kg	Interface:	USB2.0 USB3.0 Ethernet WiFi
Step/Obstacle's H:	≥20cm		Output power supply (5V 12V 24V)





## X30

- 01.** Stair climbing perception
- 02.** Auto-charging
- 03.** Obstacle stop

## X30 Pro

- 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.** Built-in RTK module
- 10.** Smart light interaction interface

## ▣ Intelligent Controller

As the equipped intelligent controller for X30, the navigation host motherboard simultaneously handles business-related program processing, primarily providing functions such as map construction and location navigation. It integrates a gigabit network switch and multiple voltage stabilization modules.



## ▀ Charging Point

Dimension: 1135\*900\*845 L\*W\*H

Input: 220V/4.9A

Output: 84V/8A



## Plug-in Battery

Dimension: 280\*240\*82 L\*W\*H

Rated voltage: 72V

Rated capacity: 22.4Ah

Rated energy: 1612.8Wh



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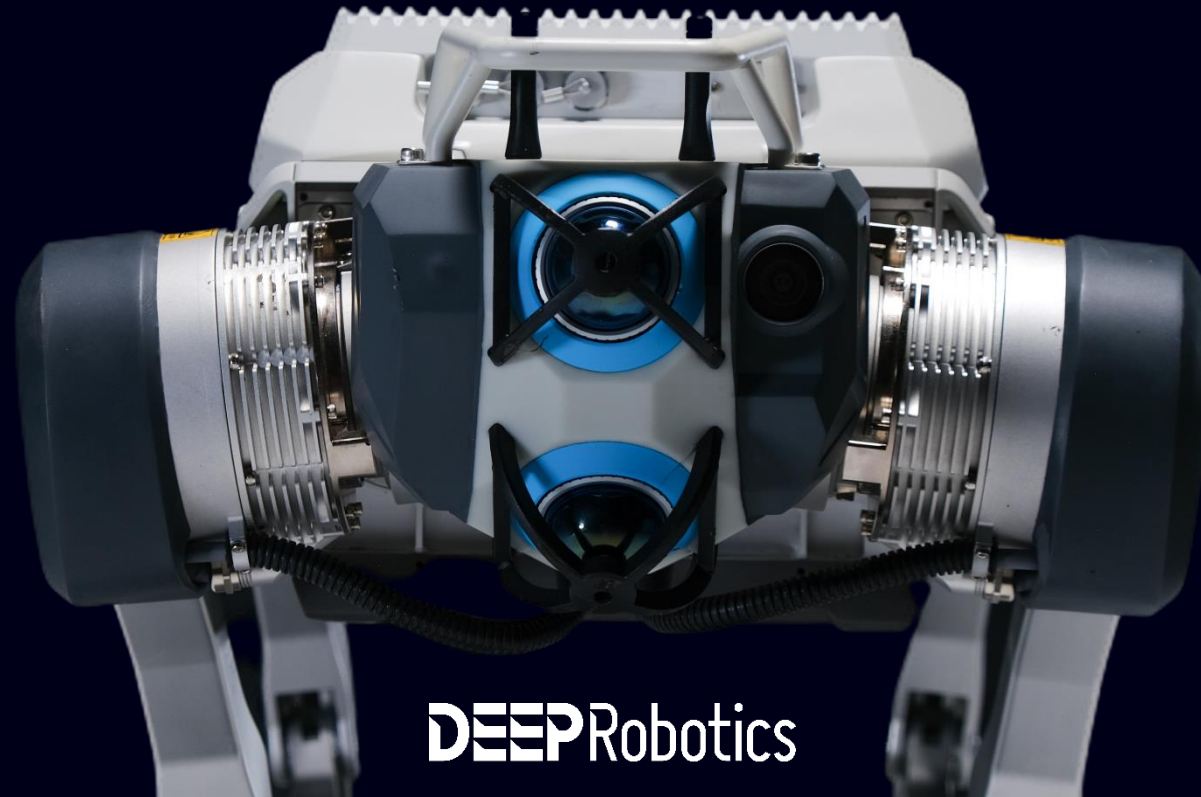
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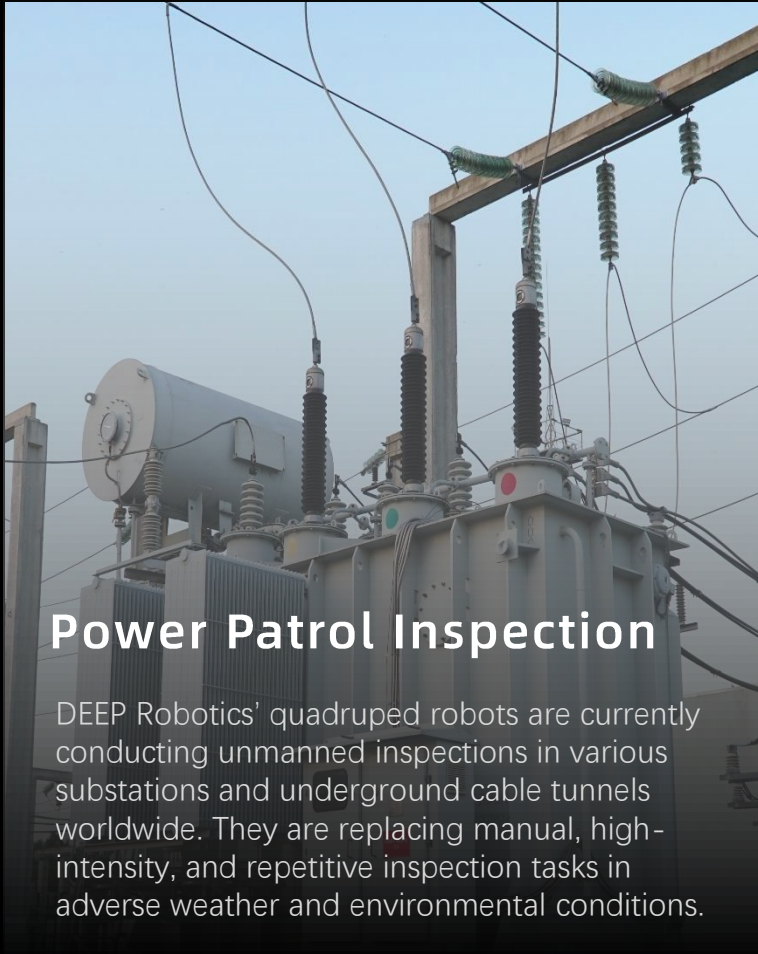
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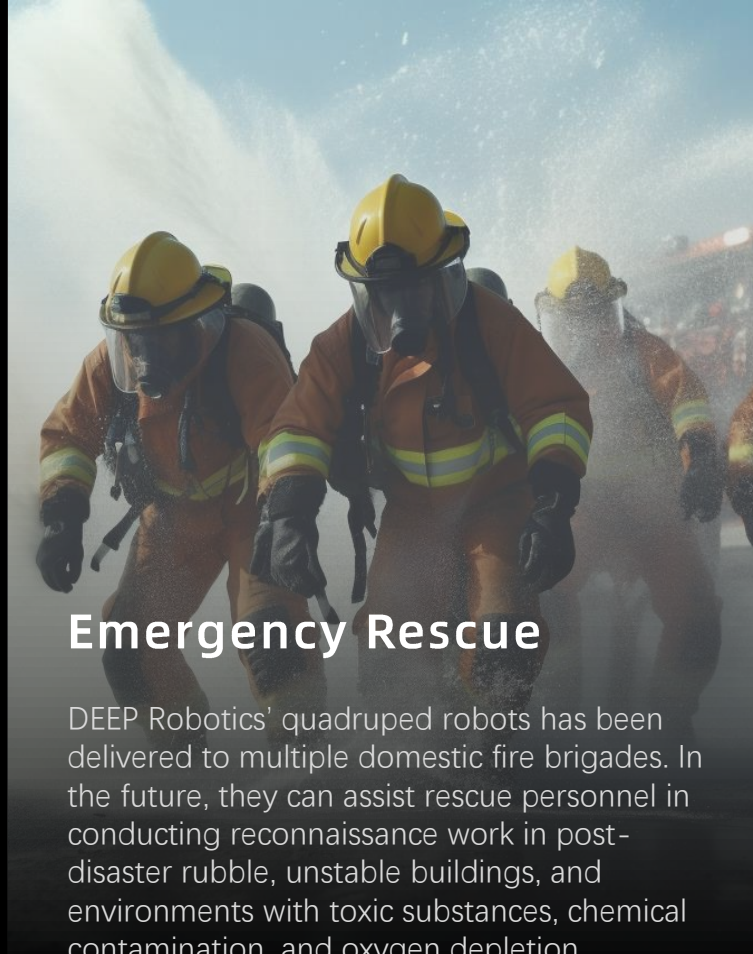
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## Power Patrol Inspection

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.

# DEEP Robotics

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