

REAL USER  
SAMPLE CASE

EXAMPLE OF CASE

01



● Smart City Rescue

With the rapid development of the social economy, a large number of high-rise buildings, underground buildings and large petrochemical enterprises sping up. Due to the particularity of these buildings and enterprises, the risks of the leak age, burning, explosion of chemical dangerous and radioactive substance keep rising. and the probability of accidents keeps increasing accordingly. In view of the fire situation in the high floor and underground environment, quadruped robot can replace or assist the firefighters to do investigation in the fire field, carry fire rescue equipment for them ,effectively reducing their work pressure.



● Intelligent Fire Rescue

without proper equipment, it is difficult for firefigthers to complete tasks under numerous challenges, including high temperatures, darkness, toxic smoke, and poor visibility. The firefighting quadruped robot can enter the fire field for people to carry out investigation and data collection of images and 3D models. It also can complete the search of ignition point and the detection of toxic and harmful gases, so as to ensure a success in fire rescue.

EXAMPLE OF CASE

02



● Earthquake and Geological Disaster Rescue

As one type of special robots, quadruped firefighting robot has been a key player in firefighting and rescue operations. Its use has become increasingly common in large-scale petrochemical enterprises, tunnels, and subways where there are potential hazards such as oil and gas leaks, toxic gas emissions, and structural collapses. Disasters like these are characterized by their suddenness, complex disposal processes, significant harm, and difficulty in prevention and treatment. As a result, they have become persistent problems. A firefighting quadruped robot can replace fire rescue personnel in these hazardous environments, addressing the problem of insufficient collection of data and protecting the personal safety of firefighters. Commanders on-site can make timely and informed decisions based on feedback results, ensuring correct and reasonable actions are taken.

# INTELLIGENT PATROL

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UNITREE


## QUADRUPED ROBOT FIRE EMERGENCY RESCUE INVESTIGATION SOLUTION

Overcome obstacles to protect heroes in harm's way  
Stay down-to-earth to assist intelligent decision-making



Let the future come earlier


APPLICABLE SCENARIOS



01

Urban Fire Rescue


Replace firefighters to go into the fire frontline to obtain images and 3D model data to ensure rescue working.



03

Mountain Rescue

Provide material transportation to reduce the burden on firefighting and rescue personnel and ensure efficient rescue operations.



04

Chemical Plant Fire Rescue

Go into fire frontline to obtain data on toxic and harmful gases to assist the rescue working.

02

Earthquake and Geological Disaster Rescue

Quickly explore disaster front-line and create 3D model to prevent secondary geological disasters and assist Search & Rescue teams.

Fire Rescue

03

Mountain Rescue

Provide material transportation to reduce the burden on firefighting and rescue personnel and ensure efficient rescue operations.

PRODUCT PARAMETERS



Weight	80kg
Load	30kg
Max. Speed	5m/s
Endurance	The cruising range exceeds 15km. The cruising time exceeds 3.6 hours. *
Ingress Protection	IP66
Interface	Ad-hoc network, supporting relay expansion.
Removable Battery	Yes
Material	Full composite metal body which is wear-resistant, high mechanical strength, and fire-resistant.
Fall-down Adjustment	Equipped with a one click button of self-righting function
Software Management	Platform Equipped with a self-developed UI system
All-terrain Operation	Easily pass 40cm obstacles with stairs, 40° slopes. Freely move on non-structured roads such as ruins, rock piles, and gravel grass. Its advantages of omnidirectional movement and small contact surface avoid changing the site environment and reduce the probability of secondary accidents.

※ Please note that power consumption may vary based on selected options.  
※ This product is a civilian robot. We kindly request that all users refrain from making any dangerous modifications or using the robot in a hazardous manner.

MANAGEMENT PLATFORM



HONOR CERTIFICATE

- Global leader in industry applications of quadruped robots(started in 2017)
- The world's first to participated in national earthquake relief and other drills
- The strongest integration capability of quadruped robot industry chain
- Outstanding contribution and influence in the world's top robotics academia
- The world's first quadruped robot company to obtain IP68 certification(2021)



360 Panoramic Camera

Transmit live images in real-time, and obtain clear videos even in high-brightness environments with strong light sources, backlight shadows, and other low-light conditions.



Gas Sensor

Automatically identify and detect flammable and harmful gases such as CO, CO2, O2, combustible gases, nitrogen oxides, hydrogen sulfide, etc., and provide real-time concentration alarms.



Handheld Remote Control

Equipped with a large high-definition screen, suitable for outdoor use even under strong sunlight. Allows access to the on-site command center, providing a reliable guarantee for on-site command.



Bi-Spectrum PTZ

Obtain temperature distribution of personnel and the environment by penetrating smoke obstructions and tracking heat sources. Support two-way voice intercom.



Ad-hoc Network

A powerful tool for achieving network coverage in complex environments. A dual network mode that effectively addresses issues with signal interference.



3D Laser Scanner



Mechanical Arm for Firefighting



Quick-release High-pressure Tank Fire Extinguisher



Quick-release Carrying Case

Smart Fire Rescue Process

