

About Us

Our Company !

Unitree Robotics is a world-renowned civilian robotics company, which is focusing on the R&D, production, and sales of consumer and industry-class high-performance general-purpose quadruped and humanoid robots, six-axis manipulators, and so on. Unitree Robotics has been invited to attend the 2021 CCTV Spring Festival Gala, the opening ceremony of Winter Games 2022, the 2023 Super Bowl, The 19th Asian Games and The 4th Asian Para Games, and the 2025 Year of the Snake CCTV Spring Festival Gala, and has been interviewed and reported by CCTV and other well-known media for many times. Unitree Robotics is the world's first company to start public retail of high-performance quadruped robots, and the first to achieve industry landing, with global sales leading over the years.

- Pioneered a low-cost,high-performance quadrupedal robot solution (2013)- setting a new industry benchmark.
- World's first company to commercially release high-performance quadruped robots (2016).
- Consistently ranked as the global sales leader in its category.
- Industry application pioneer (since 2017), driving real-world adoption of quadruped robotics.
- Among the first in China to participate in national disaster relief drills and emergency response simulations.
- Unmatched global supply chain integration capabilities for quadruped robotics.
- Recognized contributor to top-tier robotics academia, with significant research influence.
- First quadruped robot company worldwide to achieve IP68 certification (2021), ensuring extreme durability.



VISION OF UNITREE

Technology drives world progress.



CULTURE OF UNITREE

Ultimate Insight, Self-achievement, Cooperation and Mutual Benefits.



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Contact Us

Quadruped Robot Fire Rescue Solutions

Overcome Hazards, Protect the Ones Who March Against the Tide

Do not attempt hazardous modifications or unauthorized use of the robots.
For detailed product terms, policies, and regional compliance requirements, please refer to Unitree Robotics' official website. Always adhere to local laws and regulations governing robotic deployment.

UNITREE



PRODUCT PARAMETERS

Detection Edition



Weight	Approx. 90 kg
Payload Capacity	Approx. 25 kg
Max Speed	3.5m/s
Battery Life	· Range: >15 km · Runtime: >3.6 hours (Power consumption may vary depending on configuration)
Protection Rating	IP66
Communication	Ad hoc Mesh Network with relay expansion support
Removable Battery	Yes
Material	Full composite-metal body with high wear resistance, mechanical strength, and fireproof properties
Rollover Function	Manual remote-controlled recovery with one-touch rollover
Software Management Platform	Proprietary human-robot interaction system
All-Terrain Performance	· Clears 40 cm obstacles, stairs, and 40° inclines · Operates effortlessly on unstructured terrain (rubble, gravel, grass, etc.) · Omnidirectional movement with minimal ground contact to preserve scene integrity and reduce secondary accident risks.



360°Panoramic Camera

Delivers clear video streaming in both high-brightness (under strong light) and low-light (backlit/shadow) conditions.Provides real-time image transmission of on-site scenes.



Dual-Optical PTZ (Pan-Tilt-Zoom) System

Penetrates smoke obstruction to track heat sources. Detects temperature distribution of personnel and environment.



Gas Detection Sensor

Automatically identifies and monitors combustible/toxic gases including CO, CO₂, O₂, NOx, H₂S, and flammable gases Triggers real-time concentration alerts



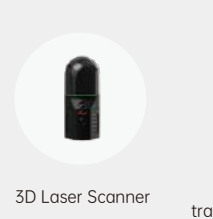
Ad hoc Mesh Network

Flexible networking architecture ensures reliable coverage in complex environments Dual-network mode mitigates single-signal interference issues



Handheld Remote Control Terminal

High-definition sunlight-readable display for outdoor use Supports integration with command centers for coordinated emergency response



3D Laser Scanner



Rapid-deployment transport case for quick setup

Water Cannon Edition



Walking Speed	2.5m/s
Wading Depth	1m
Step Climbing	> 25cm
Water Cannon Performance	Adjustable Flow Rate: 20L/s,30L/s,40L/s (3 selectable levels)
Spray Modes	Straight & foggy
Max Range	60m
Max Spray Angle	120°
Horizontal Movement	±20°
Pitch Angle	5°~85° (with body compensation)
Water Intake System	· Inlet Pipe Options: DN65/DN80 · Remote Hose Release: Enabled
Operator Terminal	Display: Sunlight-readable, supports multi-channel signal display
Auxiliary Functions	· Self-Cooling System: High-temperature resistant · Dual-Optical Smoke-Penetrating Camera: Enhanced visibility in fire environments



Foam Nozzle

· Specifically designed for extinguishing flammable/combustible liquid fires
· Suppresses vaporization/pyrolysis of burning materials and nearby combustibles to prevent fire spread



Dual-Optical Camera

· Smoke-penetrating thermal imaging for heat source tracking
· Temperature mapping of personnel and environment
· Self-cleaning lens for sustained visibility



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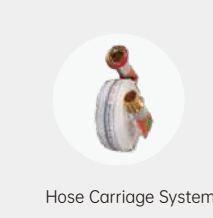
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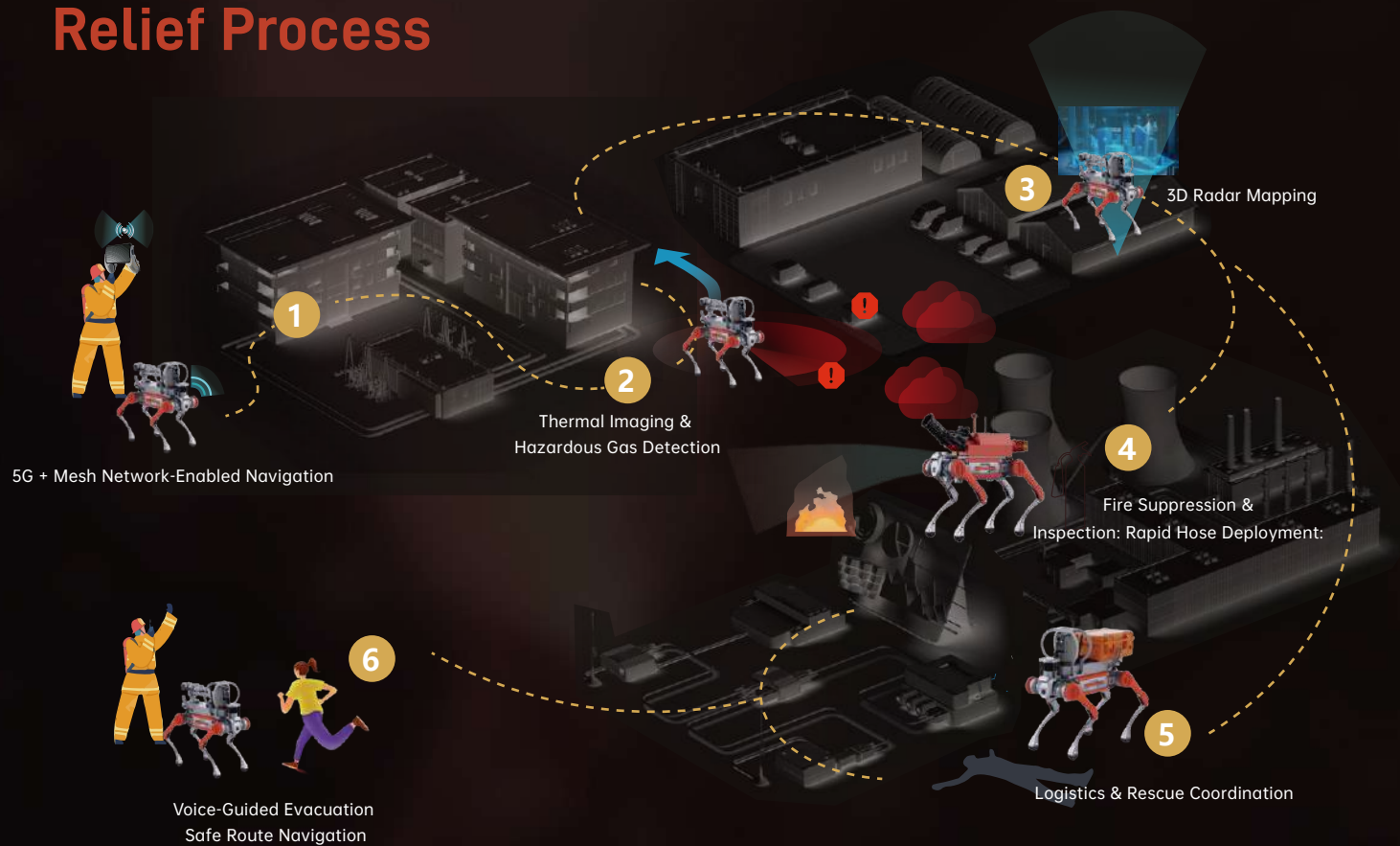
Handheld Remote Control Terminal

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Hose Carriage System

Smart Fire Relief Process



1 Beyond Visual Line-of-Sight (BVLOS) Control: Remote operation for route reconnaissance, identifying hazards to become the first responder in high-risk zones.



2 Life Detection: Rapid localization of trapped individuals and fire sources.
Real-Time Gas Analytics: Enables data-driven decision-making for on-site safety.



3 Instant Scene Modeling: Generates command-ready maps, highlighting safe routes and enabling autonomous logistics.



4 Efficient water/fire retardant delivery in confined spaces (e.g., high-rises).
Self-Cooling Mode: Withstands extreme heat to locate and neutralize fire sources under directive.

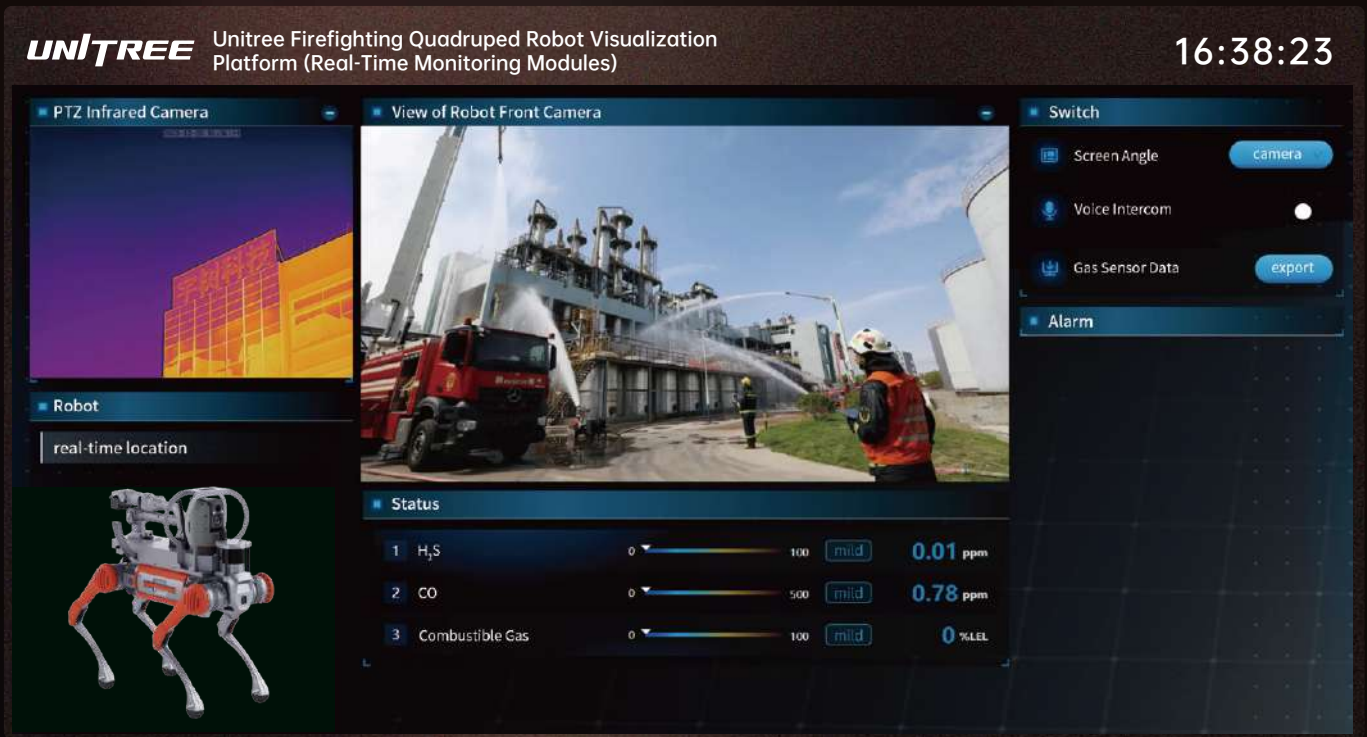


5 Critical Supply Transport: Autonomous or firefighter-assisted delivery of emergency resources.
Unified Dispatch Integration: Synchronizes with broader firefighting operations.

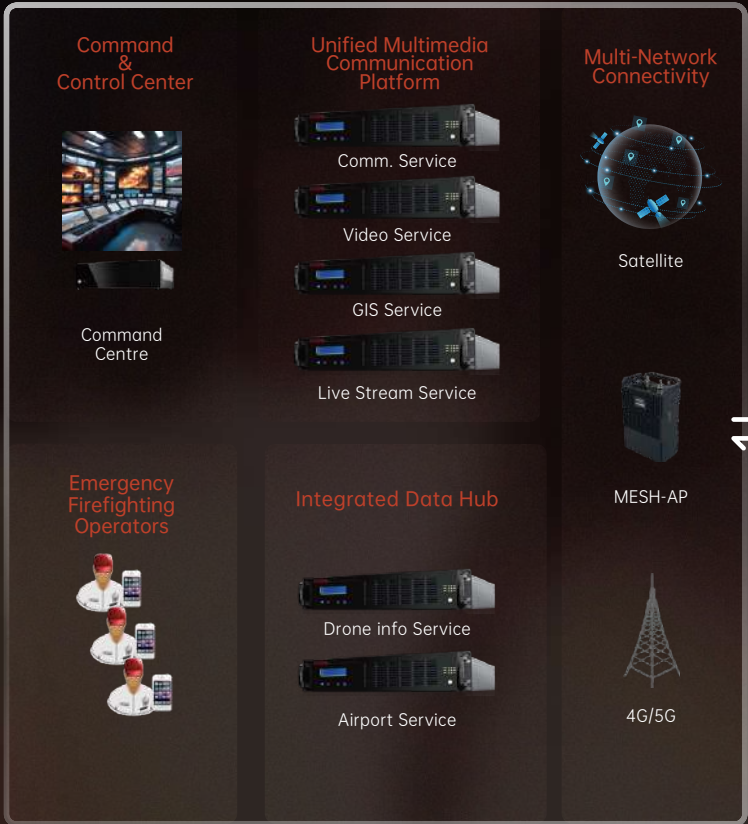


6 Scans evacuation paths for hazards, serving as a "lifeline" during emergencies.

Management Platform



System Backend Support



Disaster Site Rescue Operations

