

PROMETHEA

Quadruped Multi-Mission Platform for Heavy Tactical Deployment



The heaviest, most complete, and most capable platform in the Salamandra TWI line.

The PROMETHEA is a quadruped heavy firefighting robot developed for the most demanding operational scenarios. The platform delivers maximum firefighting power at locations completely inaccessible to personnel, supplemented by integrated reconnaissance and detection capability for real-time situational awareness at the command post.

The PROMETHEA enters zones completely inaccessible to personnel and simultaneously delivers maximum firefighting power and real-time sensor data to the command post.

KEY FEATURES

<p>0 1</p> <p>Integrated Multi-Mission</p> <p>Heavy integrated firefighting module as primary function, supplemented by reconnaissance module for real-time situational awareness. No module swap required.</p>	<p>0 2</p> <p>Heavy Tactical Chassis</p> <p>Quadruped locomotion across all terrain, climbs obstacles up to 40 cm, stairs up to 20 cm. Three movement modes.</p>	<p>0 3</p> <p>Real-time Situational Awareness</p> <p>LiDAR 3D mapping, 9-gas detection, thermal imaging, and NVIDIA 100 TOPS computing capacity — all integrated.</p>
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TECHNICAL SPECIFICATIONS CHASSIS

Weight (without battery/module)	Max. 60 kg
Dimensions standing (L x W x H)	Min. 1000 x 490 x 600 mm
Battery capacity	Min. 30 Ah, 72 V nominal
Cruising speed	Min. 3.5 km/h
Maximum speed	Min. 13 km/h
Maximum climbing angle	Min. ± 40 degrees
Maximum obstacle height	Min. 40 cm
Maximum stair height	Min. 20 cm
Operating duration	Min. 2.5 hours (standard load)
Driving range	Min. 15 km (standard load)
Charging time	Max. 2 hours
Payload capacity (all terrain)	Min. 20 kg
Protection rating	Min. IP65
Operating temperature	Min. -20 to +50 °C
Movement modes	Walk, crawl, run

TECHNICAL SPECIFICATIONS FIRE FIGHTING PAYLOAD

Water cannon flow rate	Min. 600 litres per minute
Working pressures	0.4 MPa (low) and 0.8 MPa (high)
Water cannon range	Min. 35 metres
Hose drag capacity	Min. 30 metres
Swivel angle	Min. ± 20 degrees (via joint motor)
Elevation	10 to 70 degrees
Horizontal rotation	Min. ± 30 degrees
Self-irrigation	Integrated
Disconnection	Manual and automatic, including emergency lever

TECHNICAL SPECIFICATIONS RECONNAISSANCE MODULE

Computing capacity	Min. 100 TOPS (NVIDIA platform)
Visible camera resolution	Min. 1080P

Infrared resolution	Min. 384 x 288 pixels with temperature measurement
IR temperature range	0 to 500 degrees Celsius
LiDAR	Real-time 3D mapping while driving
3D/2D display	Switchable via remote control
Gas detection	9 common gases, including flammable and TVOC
Airflow	Direction and speed detectable
3D cross-section display	9 gases, temperature, and airflow in 3D model
Automatic return	One-touch function
Module housing	High-grade metal, impact-resistant and drop-proof

C O N T R O L A N D O P E R A T I O N

Remote control weight	Max. 1.5 kg
Control app	Dedicated robot app, all functions integrated
Camera view	Switchable: infrared, visible light, and combined
Real-time status display	Yes, via app

A P P L I C A T I O N S

<p>Fire Service</p> <p>Heavy offensive firefighting in burning buildings and inaccessible zones, without personnel deployment.</p>	<p>Defence</p> <p>Heavy tactical reconnaissance, EOD support, and critical infrastructure surveillance.</p>	<p>CBRN</p> <p>Detection and neutralisation in chemical, biological, radiological, and nuclear environments.</p>
<p>USAR</p> <p>Victim detection and extraction in collapsed structures using combined sensor and firefighting payload.</p>	<p>Police / Riot Control</p> <p>Heavy observation and intervention at high threat levels and barricaded situations.</p>	<p>Command Support</p> <p>Real-time 3D situational imagery, gas detection, and thermal data delivered directly to the command post.</p>

Request information or demonstration

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