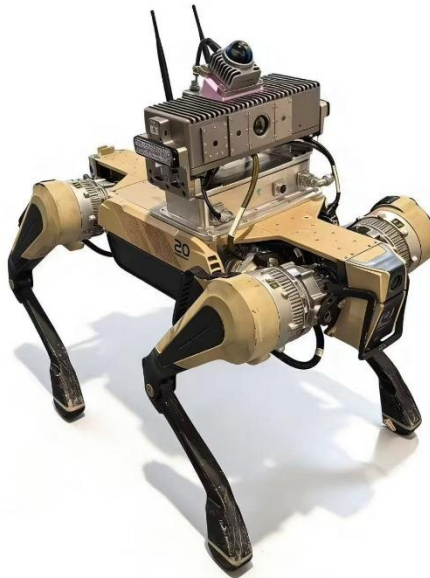


P R O D U C T D A T A S H E E T · Q U A D R U P E D
M E A S U R E M E N T & R E C O N N A I S S A N C E
P L A T F O R M

PYRALIS

Quadruped Reconnaissance Platform with Modular Measurement, Reconnaissance, and Firefighting Payload



Maximum manoeuvrability in the most extreme environments.

The PYRALIS is a quadruped measurement and reconnaissance platform with modular sensor payload, developed for deployment in extreme and complex disaster scenarios. It combines highly manoeuvrable locomotion with a fully integrated measurement package for gas detection, thermal imaging, and environmental perception. The top module is interchangeable within one minute for a firefighting payload, transport module, or additional sensor package.

The PYRALIS enters hazardous zones inaccessible to human personnel and delivers real-time measurement data, thermal images, and gas concentrations directly to the command post.

KEY FEATURES

0 1

High Manoeuvrability

Three movement modes: walk, crawl, and run. Climbs obstacles up to 40 cm, stairs up to 20 cm. Topsnelheid 13 km/h.

0 2

Powerful Measurement Payload

Gas detection (9 gases), thermal imaging, LiDAR 3D mapping, and airflow measurement. Optionally

0 3

Fast Module Swap

Top module interchangeable within 1 minute via quick-release coupling — from measurement to firefighting or transport.

	expandable with firefighting payload, flow rate min. 600 l/min.	
--	--	--

T E C H N I C A L S P E C I F I C A T I O N S C H A S S I S

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

T E C H N I C A L S P E C I F I C A T I O N S
F I R E F I G H T I N G P A Y L O A D

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

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

Fire Service Thermal reconnaissance, gas detection, and situational assessment in burning buildings and zones inaccessible to personnel.	USAR Deployment in collapsed structures and rubble for reconnaissance and victim support.	CBRN Operation in chemical and toxic environments enabled by IP65 protection and self-irrigation.
Command Support Real-time visual data and situational assessment delivered to the command post.		

Request information or demonstration

Salamandra TWI B.V. · info@salamandra-twi.com · www.salamandra-twi.com