

P R O D U C T D A T A S H E E T · A U T O N O M O U S
R O B O T I C S

SCINTILLA

Autonomous Tracked Platform for Tactical Reconnaissance



Engineered for environments too dangerous for humans.

The SALAMANDRA is a modular, track-driven reconnaissance platform for deployment in situations where manned entry is too risky, too confined, or operationally unacceptable.

For fire services, defence, police, and USAR. Engineered for the most demanding operational conditions. Reconfigurable within three minutes, tool-free.

KEY FEATURES

0 1 Modular Equipment Mission-specific configuration in under 3 minutes. No tools required.	0 2 All-terrain Tracks Operable on rubble, mud, gravel, stairs, and slopes up to 35 degrees.	0 3 Encrypted Link Military-grade encryption on all command links and data streams.
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TECHNICAL SPECIFICATIONS

Platform	Track-driven, fully mechanised
Drive	Elektrisch (hot-swap Li-Ion) — hybride optioneel
Base weight	approx. 35 kg, depending on mounted modules and equipment
Equipment capacity	Up to 10 kg modular equipment
Top speed	4 km/h (operational terrain)
Range	Up to 500 m line-of-sight radio link
Control	Wireless via hand controller or GCS tablet
IP rating	IP65, fully dustproof and splash-proof. Operable in rain, mud, and smoke environments.
Temperature range	−20 °C tot +55 °C operationeel
Camera (standard)	Daylight HD 1080p, pan-tilt
Camera (optional)	FLIR thermal integrated
Battery life	2+ hours operational, hot-swap, zero downtime
Communication	Encrypted 2.4/5.8 GHz, COFDM optional

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

Fire Service

Thermal reconnaissance, flue gas detection, and company officer support.

Defence

Battlefield reconnaissance, EOD support, and critical infrastructure surveillance.

CBRN

Remote detection of chemical, biological, radiological, and nuclear threats.

Police / Riot Control

Observation at high threat levels, crowd scanning, and structural reconnaissance.

USAR

Victim detection in collapsed structures using acoustic and thermal sensors.

Training

Immediately deployable as a training platform at TBW and comparable facilities.

O P T I O N A L E X P A N S I O N S

- FLIR thermal camera with integrated heat image analysis
- Gas measurement module: CO, O2, explosive, CBRN packages
- Acoustic microphone array for victim detection (USAR)
- Speaker and microphone module for remote communication
- 360-degree panoramic camera with live HD streaming
- Autonomous navigation with obstacle avoidance (add-on module)
- Inter-platform communication between Salamandra TWI systems for coordinated deployment from a single command post

Request information or demonstration

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