

Surveyor



Vehicle identification sensor

- Extended classification and identification of enemy vehicles
- Flexible and adapted to different sets of vehicles and environments





SURVEYOR

PART OF THE FLEXNET PLATFORM

Dedicated to the classification and identification of enemy vehicle movements, the Surveyor belongs to Exensor's next generation of sensors. Fifteen years after the release of its predecessor as the first Flexnet sensor, the Surveyor is a completely redesigned device. Compact and lightweight, it provides accurate results while maintaining the same operational endurance.

The Surveyor consists of a main unit with: integrated battery, GPS receiver and radio; and two sensor probes. Each probe contains sensor elements for measurement of magnetic, seismic and acoustic

properties of passing vehicles, in order to provide precise classification and identification.

The probes collect data that is analysed by the main unit to provide reliable information about the vehicle. Alarms – including vehicle type, speed and direction – are then transmitted to a base station via the radio and the Flexnet Mesh network. The Surveyor can be connected to an external battery or power source to enhance its operational endurance.

The Surveyor is mainly used for surveillance of Main Supply Routes (MSR), tracks and minor roads.

Technical specifications

Size	75 x 120 x 55 mm (Main unit) 135 x 47 x 38 mm (Probe)
Weight	0.9 kg (Main unit) 0.4 kg (Internal probe) 1.4 kg (External probe & cable)
Operational endurance	5 days with integrated rechargeable battery (external battery can be connected for extended operational endurance).
Temperature	-32 to +71° Celsius in operation
Environmental	MIL-STD-810
EMC	MIL-STD-461
Tamper alarm	Built-in anti-tamper with GPS
Position	GPS for self-location

Performance

	Accuracy (%)
Detection	< 98%
Classification	< 95%
Identification	< 70%

* Type of vehicles: Light / heavy, wheeled / tracked

* Accuracy varies according to the quality of the database used by the sensor.

Capabilities

- Wide range of classification, from motorcycles to heavy tanks
- Classification of columns of enemy vehicles
- Identification of passing vehicle against pre-recorded signatures
- Advanced filtering of false alarms
- Recording capability to signature library
- Flexible deployment