

SURVEYOR

VEHICLE IDENTIFICATION SENSOR



DETECTION,
CLASSIFICATION
& IDENTIFICATION
OF VEHICLES

EXENSOR





SURVEYOR

PART OF THE FLEXNET PLATFORM

Dedicated to the detection, 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, being more robust and reliable than ever before. Compact and lightweight, it provides accurate classifications while maintaining the same operational endurance.

The Surveyor uses advanced fusion of seismic, acoustic and magnetic sensor data to detect, classify and identify vehicles. It 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.

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

The Surveyor can be connected to an external battery or power source to greatly enhance its operational endurance.

Technical specifications

Size	75 mm x 120 mm x 55 mm (main unit) 135 mm x 47 mm x 38 mm (probe)
Weight	2 kg
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

Classification	Detection ranges
Light vehicle	10 m
Heavy vehicle	20 m
Type identification	20 m
Wheeled/Tracked	20 m

Capabilities

- Identification of passing vehicle against pre-recorded signatures
- Advanced filtering of false alarms
- Recording capability to signature library
- Rapid deployment