

Primrose Wireless Sensor Networks

Intelligent, scalable networks of powerful, miniaturized, unattended ground sensors

Key Features

- Continuous 24/7 remote wireless, BLOS monitoring
- Detects human and vehicular and other sensing capabilities
- Scalable, with support for multiple sensors
- Sophisticated back-end data analysis
- Ruggedized design
- Operates in ISM frequencies bands
- Robust communications protocol
- Multi-hop, ad hoc, self-forming, and self-healing system

Operational Benefits

- Smallest and lightest sensors available on the market
- Self-organizing, self-optimizing, self-configuring, and self-sustaining
- High probability of detection even in complex terrain
- Very low false alarm rate
- Interoperable with other terrain monitoring systems
- Easy to deploy and to operate
- Long lasting operational capacity

FIELD PROVEN

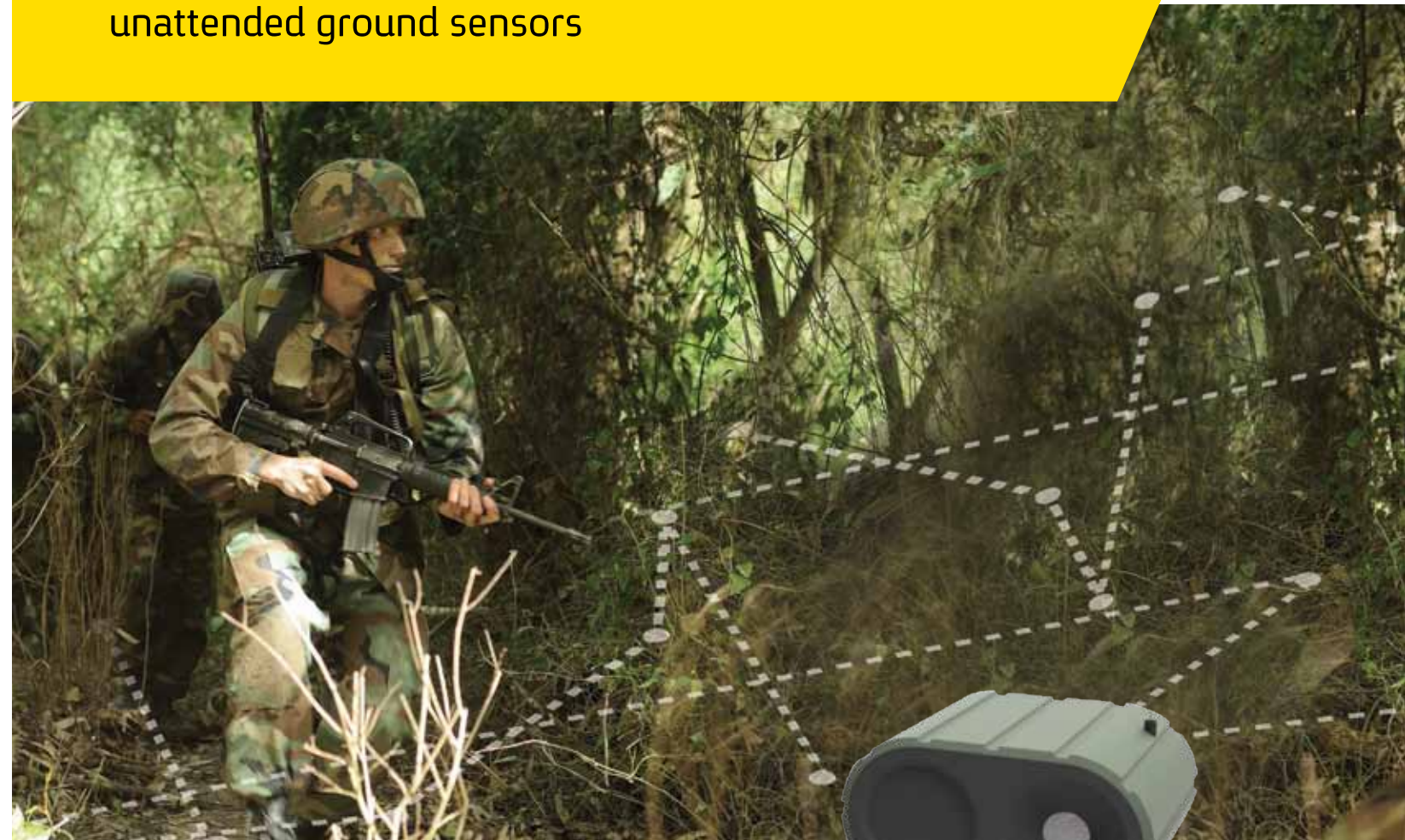


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Intelligent, scalable networks of powerful, miniaturized, unattended ground sensors

Elbit Systems' Primrose Wireless Sensor Networks (WSN) are comprised of miniaturized, spatially-distributed and bi-directional remotely monitored sensors. Deployed at the ground level, these standalone, self-powered, intelligent nodes cooperatively detect and track the movements of people, vehicles and other events.

With high detection probability and an extremely low false alarm rate (FAR), the WSN provides beyond line-of-sight (BLOS) coverage even in complex terrain. Several Primrose networks can be joined together to safeguard an even larger zone. The system is easily customizable and can be deployed as a standalone solution or as part of a more extensive defensive or field intelligence array.

Advanced energy saving technology ensures ultra-low-power consumption and an extended battery life. Each unit is sealed and protected from moisture, corrosion, electromagnetic and other disturbances, making it possible for these innovative sensors to remain in place for extended periods of time.

Fully field-proven and operational, the Primrose networked sensors are suitable for a wide range of defense and homeland security applications, including perimeter and border protection, sensitive site security, as well as BLOS and tactical intelligence.

Small form factor for use in complex locations

These powerful miniaturized sensors are 80% smaller and lighter than the most compact sensors available on the market today. The Primrose system can be quickly and easily deployed in any location or environment, and is ideal for use in hilly and densely vegetated areas or other hard-to-observe spots where line-of-sight (LOS) monitoring is impractical.

Intelligent network for advanced communications

As a self-forming, self-healing, wireless ad-hoc network (WANET), Primrose intelligently communicates and analyzes sensor input in real time, and transmits the data to regional controllers. The data is then routed to the C² center that stores and analyzes the collected information. The system is highly scalable, with support for multiple sensors including acoustic, radar, seismic, electro-optic, cameras and more.

High probability of detection and low false alarm rate

Due to their advanced algorithms, the sensors are exceptionally reliable, delivering accurate detection and dramatically fewer false alarms. The highly sophisticated back-end data analysis is based on ongoing real time input from all information streams being transferred from the field.