



SELEX GALILEO

A Finmeccanica Company



HYDRA NETWORKED SURVEILLANCE

SELEX Galileo are meeting the need for detection, localisation and identification of intrusion by using rugged remote sensing, surveillance and versatile wireless sensing networks.

In a changing environment, those charged with protecting national interests face new and unpredictable dangers. Evermore imaginative solutions are required to ensure the safety and security of operatives and high value assets. The Hydra Networked Surveillance system provides an integrated 24 hour remote surveillance system, giving timely, positive detection and identification of threats.

KEY BENEFITS

- Remote 'Eyes on' visual identification
- Rapid deployment
- Automatic node geo-location/ orientation
- Wide range of available sensors
- Low initial and through-life cost
- Secure, robust self forming radio network
- Rapid and easy deployment for temporary installations
- Easy to use graphical user interfaces.

MILITARY AND HOMELAND SECURITY APPLICATIONS

Particularly suited to the protection of borders, key assets and mobile forces: the system provides many operational benefits. These include real-time persistent surveillance and remote target identification, resulting in faster reaction times and a reduction in manpower.

DISTRIBUTED NETWORK SENSING

The Hydra Networked Surveillance system provides distributed multimodal sensor capability to detect, recognise, identify and track targets of interest: enhancing situational awareness and allowing users to implement an effective reaction to potential threats.

RUGGED AND VERSATILE

Each Hydra sensor node is housed in a rugged environmental enclosure and contains sophisticated sensor processing and communications electronics. With a variety of available sensors, the Hydra node is able to communicate specific information about the surrounding environment via the wireless sensing network. Equipped with integrated GPS, digital magnetic compass and internal batteries, these small, unobtrusive ground sensors can be rapidly hand deployed with minimal training or special equipment.

HYDRA Networked Surveillance



Hydra Networked Surveillance provides an integrated 24 hour remote surveillance system

SECURE AD-HOC SENSING NETWORK

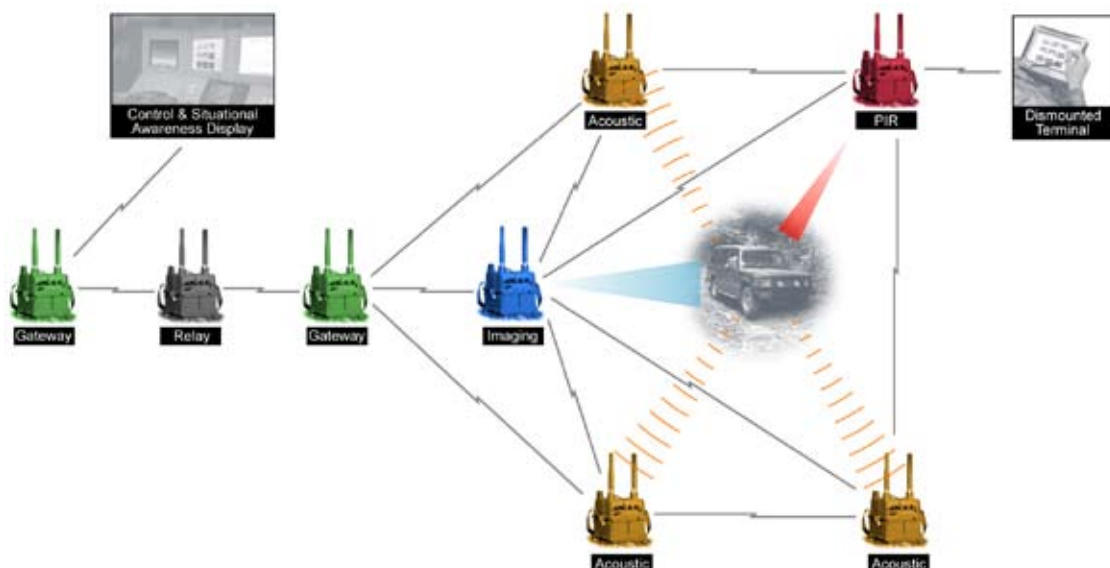
Following deployment, the sensor nodes automatically form a dynamic wide-area secure radio network. With inter-node ranges of up to 500 meters, large areas of ground can be covered with a small number of sensor nodes. When greater ranges are required, backhaul communication gateways can be deployed, providing secure data exchange between sensor fields and the remote command location.

ADAPTABLE SENSING TECHNOLOGIES

The designed flexibility of the Hydra node enables a diverse array of sensor types to be deployed in the field. This enables the system to be adapted and expanded as required for each individual operation.

SYSTEM FEATURES

- Battery powered
- Unlimited battery packs may be deployed with each node
- Automatic node geo-location & orientation
- Available sensor types:
 - Passive infrared
 - Acoustic
 - Imaging (visual & IR band with PTZ)
 - Seismic
 - Magnetic
 - Chemical/ Biological
- Extendable and adaptable allowing integration of new sensor types
- Secure data encryption
- Built in node tamper protection
- Cross cueing of different sensor types
- Versatile user interface
- Hand held terminal for local field operatives
- Command and control
- Integration into customer's C2
- Geographical mapping for optimal spatial awareness providing sensor location, detection zones, imager field of views
- Self-healing, self forming, ad-hoc, secure, wireless sensor network
- Various sensor mounts, transport and camouflage solutions available
- Backhaul gateway functionality to remote command location.



For more information please email sales.marketing@selex-sas.com

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