SIRIUS COMPACT

Benefit from full sensing potential

Compact passive surveillance for tactical applications

Sirius Compact is a modular and scalable passive Electronic Warfare (EW) sensor network which provides a true force-multiplier by enhancing situational awareness through detection, tracking and classification of radar and datalink emissions.

Sirius Compact

A compact, lightweight sensor that can easily be deployed and connected in a network to support tactical operations.

Autonomous operation enables assimilation and compilation of intelligence information without storing sensitive data in the sensor. This, together with its cost-efficiency makes the sensor expendable; allowing stand-in operations in contested environments.

Sirius Compact enables tactical Electronic Warfare across all operational levels adding a higher level of confidence to situational awareness for decision support.
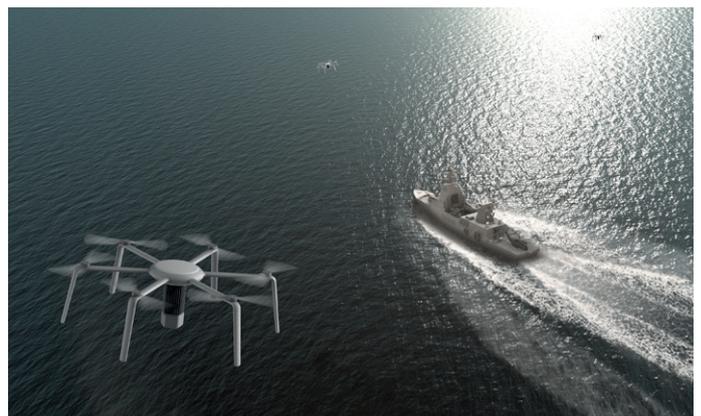
SCALABLE AND AGILE

Sirius Compact is an installation- and datalink-agnostic sensor which can be mounted on a multitude of platforms including drones, vehicles, vessels, masts or even deployed from troop manpacks.

HEIGHTENED AWARENESS

Sirius Compact allows enhanced situational awareness to be realised at all operational levels.

Sirius Compact features

- Network of cost-effective EW sensors – "IoT of Electronic Warfare"
- Tactical Electronic Support (ES)
- High precision Direction Finding (DF) and geo-location of emitters
- Self-contained compact sensor with integrated positioning unit
- Platform/datalink-agnostic payload
- Sensor deployment within minutes
- Seamless integration to third-party Command & Control (C2) systems
- No sensitive threat library data stored in the sensor

Typical applications

- Commercial drones or Unmanned Aerial Vehicle (UAV)
  - Airborne surveillance
  - Manned/unmanned teaming
  - Elevated sensors
- Armoured Fighting Vehicle (AFV)/Combat Boat
- Special Operations
  - Manpack
- Complement multi-sensor systems
  - Coastal surveillance
  - Border surveillance
  - Ground Based Air Defence

Technical data

- Frequency coverage: 2-18 GHz (0.5-2 GHz optional extension)
- Azimuth coverage: 360° instantaneous
- DF accuracy: < 2° rms
- Geo-location by triangulation
- Instantaneous bandwidth: up to 2000 MHz
- Emitter tracking: > 250 emitters
- Mission and raw data recording to mass memory
- Interfaces: 18-28 VDC, Ethernet (Emitter tracks, data rate < 300 kB/s)
- Size < 3 litres, Weight < 2 kg
- Endurance > 4 h (with standard BB-2590 power source)

One family, every signal, any domain

Sirius is a family of innovative and networked passive sensor systems based on common architecture with a domain specific edge. It provides a complete synergistic capability for Intelligence, Surveillance and Reconnaissance – beyond the scope of individual sensors. Today these systems provide Armed Forces and Intelligence Services around the world with the silent power required to turn signals into knowledge, whilst remaining undetected.

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Specifications subject to change without notice.
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