Spectralint®

Technical Overview

SpectralintC2 Command & Control Platform

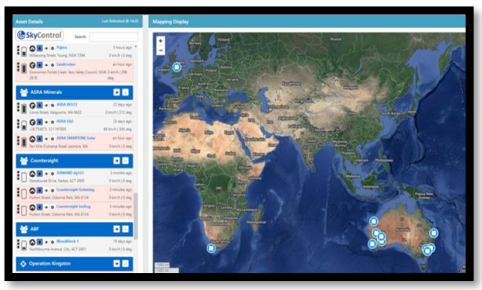
Real-Time Decision-Making And Response

KeyOptions **SpectralintC2** Command and Control Platform, in the context of KeyOptions 'SkyControl' counter-UAV (Unmanned Aerial Vehicle) system, is our centralised software and hardware system that **integrates, coordinates, and manages the detection, tracking, identification, and neutralisation of unauthorised UAVs**. It serves as the operational hub for counter-UAV operations, enabling real-time decision-making and response to UAV drone threats. The **SpectralintC2** platform integrates RF detection, jamming, and other technologies to provide a robust solution for government, military, and commercial clients.

***SpectralintC2** ideally serves as the central interface for managing SkyControl counter-UAV capabilities, aligning with mission needs to deliver performance-critical applications for specialised operations.*

Military Application

In a military scenario, the **SpectralintC2** platform **detects any unauthorised UAV or drone** approaching a geo-fenced secure facility, analyses its RF signal profile to confirm hostility, (to establish whether the UAV is listed as 'authorised') and directs a jamming system to disrupt its control link, either **forcing it to land or return to its operator**; all while providing real-time updates to the command team.



MIL-STD-2525 Compliant
Available to MIL-STD-2525 military compliance. Our sensor agnostic, open architecture platform, SkyControlC2 brings advanced interoperability and flexibility to users.

Unapparelled Capability And Function

Key Functions of **SpectralintC2** Command and Control Platform in Counter-UAV Operations include the following elements:

- ✓ **Detection and Tracking**: Aggregates data from multiple sensors (e.g., radar, RF detectors, cameras, or acoustic sensors) to identify and track drones in real-time, providing situational awareness.
- ✓ **Threat Assessment:** Analyses detected UAVs to determine their intent, origin, or threat level, using AI or machine learning to differentiate between benign and hostile drones.
- ✓ **Decision Support:** Presents operators with actionable intelligence, such as drone location, trajectory, and type, to support rapid decision-making.
- ✓ **Neutralisation Coordination:** Integrates with countermeasures (e.g., jammers, or kinetic interceptors) to direct and execute neutralisation strategies, such as disrupting drone communications or safely disabling the UAV.
- ✓ **Multi-Sensor Integration:** Combines inputs from diverse systems (RF, radar, optical, etc.) into a unified interface for a comprehensive view of the airspace.
- ✓ **Communication and Reporting:** Facilitates secure communication between operators, sensors, and response teams, and generates reports for post-incident analysis.

Key Options