SPECTRAL INTELLIGENCE

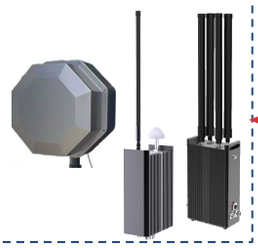
MAKING THE INVISIBLE, VISIBLE

Key Options

SkyControl & Spectralint

DETECT | ANALYSE | PREDICT | INFLUENCE

RF Jammer and Spoofer

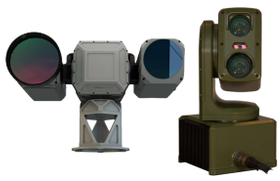


SkyControl RF Jammer and Spoofer trigger and control

AI RF UAS Detection and Classification

Metalens ANN Multi-IR Sensor

AI Optics detection, tracking and classification



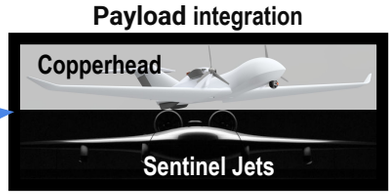
AI 3D RADAR solutions

E-Ceptor

Other Kinetic Effects

DATA FUSION

UAS SIGINT/TACINT Payload integration



SIGINT RF detection

TACINT Cellular Detection

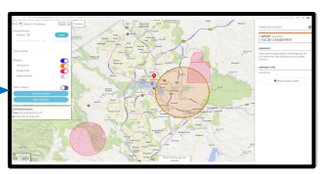
Tactical Satellite Monitoring

SkyControl , SIGINT & TACINT Mobility

Other RF detection, SIGINT and asset tracking data

Standalone C2

Spectralint C2S (Command, Control & Sensors)

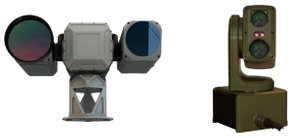
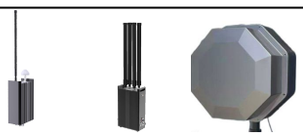
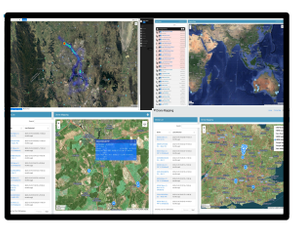


UAS Traffic Management

MAKING THE INVISIBLE, VISIBLE

What is the SkyControl ecosystem?

The SkyControl ecosystem is a KeyOptions customised suite of unique and best of breed systems integrated as a cost effective drone and counter drone solution for Defence, Law Enforcement, Critical National Infrastructure protection, VIP convoy protection, Event management and other areas where drone mitigation is required.

	Detect and identify 490+ drones and controllers with AI, ability to track the path of DJI and RemoteID drones. **Frequency Bands**: 433MHz, 800/900MHz, 2.4GHz, 5.2GHz, 5.8GHz (FPV drone detection 400MHz - 6.0GHz) **SkyControl RF Range**: 10-25km+ (Up to 35km in ideal conditions with the best detection at 46km) **SkyControl RF Master Range**: 10km+ Direction finding on all bands. 45° above 2.0GHz, 90° below 2.0GHz **SkyControl Precision Range**: SkyControl RF Long Range with 4.5° RMS **SkyControl PDD (Personal Drone Detection) Range**: Omni-directional - 3-4km, Direction Finding - 7km
	**VisionFlex or PodView** Drone detection integrated with either high performance or cost effective AI AI driven EO/IR and LRF optics **Visionflex Range**: - Daylight 8km, Night 4km, **Podview Range** - Daylight 5km, Night 2km
	MetaLens is a state-of-the-art sensing technology that combines nanomaterial-based adaptive lenses with AI-powered neural networks to deliver superior passive multispectral imaging and situational awareness. **Detection range**: Up to 8 km
	E-Ceptor ESME (Electronically Stable Modular Effector) A propellantless launch & propulsion system. Uses Aerofilm active flow using electric currents to ionise the air for control & propulsion. Uses Metalens for target tracking and control. Can be mounted on any platform. **Projectile**: 4.8kg, with 350g or catalysed foam with a breaking parachute. **Powered Flight**: 33s. **Range**: 3-6km (without gliding).
	**SkyControl SkyGuard & SkySpoofer** are advanced RF aerial threat defence systems driven by SkyControl RF **Jammer Range**: up to 5km ; **Spoofer**: up to 5km **Skyguard Directional Jammer: Portable,** 90° directional portable, up to 100W output on selected bands
	Echodyne EchoShield is a radar system that uses high-performance electronically scanning array (ESA) technology.. Detection is from 3-6km for small to medium UAS. **Robin Radar 3D IRIS** system is a cutting-edge radar technology designed for comprehensive airspace monitoring out to 3 - 5km
	**Spectralint C2S (SIC2S)** is at the heart of the SkyControl ecosystem and is a unique command, control & Sensor system designed with the demands of SIGINT (Signals Intelligence), TACINT (Tactical Intelligence data such as IMSI/IMEI and our satellite monitoring solution) and geospatial radio frequency information. It adds core capability to the SkyControl suite allowing real time analysis and alerting, above and beyond the Skycontrol individual systems, with the ability to look at historical data and determine patterns of life. On-Prem or cloud hosted software and infrastructure to manage multiple systems from a central location with encrypted Video, asset tracking, Media management library, and multi-sensor input such as the SkyControl Suite of products.
	SIGINT & TACINT are part of the Spectralint suite of products, KeyOptions provides its own SIGINT and TACINT systems for vehicles, vessels, drones, permanent and mobile deployments. The solutions can run stand alone, or integrate directly with Spectralint C2 for broad tactical picture. Our packages include RF detection (9kHz -18GHz), Satellite monitoring, IMEI/IMSI capture, jamming and signal decoding. Every solution is customised for the customer.
	UAV, USV, UGV Solutions. KeyOptions solutions focus on tactical mobility, allowing for easy deployment and on-the-move. We have developed customised packages for both the Copperhead and Sentinel Jets UAS as well as some autonomous vessel platforms.