

FALCON SHIELD



Naval & Air Defence Systems

FALCON SHIELD COUNTER UNMANNED AERIAL VEHICLE (C-UAV) SYSTEM

Falcon Shield is a rapidly deployable, scalable and modular system designed to address the threat from low, slow and small unmanned aerial vehicles (UAVs).

Falcon Shield's easily configurable system enables highly accurate detection, tracking, identification, geo-location and mitigation of the UAV threat through a complimentary, fully integrated suite of sensors and threat management effectors.

The Vantage Command, Control and Situational Awareness (C2SA) framework provides a modular integration framework and intuitive user interface. Customer specified and third party equipment can be readily integrated into the system.

The framework enables the Falcon Shield system to be tailored and optimised to meet the demands of varied locations, threats and end-user concepts of operation.

Falcon Shield exploits the company's range of high-performance Electro Optical (EO) sensors and advanced RF management technology; enabling threats to be confirmed and neutralised at range and providing a shield around the area being secured.

Applications

- Protection of critical infrastructure and facilities
- Provision of security for personnel and VIPs
- Safety at public, national and government events
- Fixed, deployable and mobile
- Urban, zonal or wide area security and surveillance



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OPTIONS

- Fixed installation with a central C2SA station with distributed fixed or mobile sensor locations
- Flexible, deployable systems with C2SA and sensors integrated into Mobile Surveillance Vehicle (MSV) with option of trailer based mast systems for extended sensor range capability
- Deployable systems with man portable C2SA with tripod mounted sensors for agile and rapid deployment
- Choice of electro-optics, electronic surveillance and radar sensor (including extant capability) to offer an optimised solution for specific installations or deployments
- Advanced Electronic Attack capability to deny, disrupt or take control of UAV command and data links. Open architecture enables through-life capability enhancement and supportability.
- Training and support packages

KEY FEATURES AND USER BENEFITS

Vantage Command, Control and Situation Awareness (C2SA)	
Intuitive Human Machine Interface (HMI)	Ease of use, low user fatigue and training needs
Automated threat detection and tracking	Minimises operator workload
	Maximises situational awareness with low false alarm rates
Open-standards IP based control interfaces	Easy interface with existing customer infrastructure
Geospatial Information Systems	Enables accurate geo-location of threat for hand-off to effector, counter-measure or external actor
High performance Electro Optical (EO) system	
NERIO-ULR Gyro-stabilised EO payload with 360° coverage	Operation on ground or mast/tower mounted to minimise blind arcs and inter-visibility constraints
Family of EO payloads	Solution for both close-in, e.g. urban canyons and long-range surveillance and threat identification
High-resolution thermal and visible band cameras	Enables threat evaluation and confirmation at beyond effective threat range
Eyesafe laser range finder	Aids accurate geolocation of UAV controller location when identified via EO sensors
Radar	
Open-standards IP and ASTERIX radar interfaces	Enables radar selection appropriate to deployment
Continuous 360° or sector coverage	Enable panoramic or sectors surveillance and alerting
Federated or integrated radar solutions	Enables integration with existing air defence radar installations or as a stand-alone system
RF management	
Electronic surveillance and attack	Electronic Surveillance to provide detection and tracking of threat elements Integration of a low collateral Electronic Attack capability to provide a multi-layered threat response through command link control intervention.
Flexible deployment solutions	
Modular and scalable system architecture	Configurable as a fixed, deployable or mobile system
Multiple EO and RF sensors capability	Ability to optimise sensor locations and coverage
Rugged design	Enables deployment in a broad range of operational requirements across a global environment.
Mast, vehicle or ground/building mounted sensors	



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