Drone Detection & Defense Solutions

DeTect's DroneWatcher™ system

DeTect's DroneWatcher™ system provides the most comprehensive, multi-layered solutions available for detection, locating, alerting and interdiction of drones and small UAVs (sUAV).

Advanced military-grade technology combines signals intelligence (SIGINT) and radar to provide a scalable solution to meet each user's specific security profile objectives. The systems are also software upgradable to meet continually evolving drone capabilities and components can be added at any time to expand the security envelope.

DeTect's surveillance systems use DeTect's Intelligent Radar™ data system to provide real-time target classification, false positive rejection *(bird targets)*, automated perimeter and zone intrusion alerts and remote display and control. DeTect's technologies also integrate and control both DeTect and third-party surveillance and interdiction devices including video, acoustic and cyber systems.

DroneWatcher DSR

- **Long range, military grade Drone Surveillance** Radar (DSR) designed specifically for detection and tracking of small, low radar cross section targets in complex, high clutter environments

- **2+ mile detection range** for sUAS and drones

- **Detection of commercial, military and programmed flight** (non-RF controlled) uncooperative drones

DroneWatcher RF

DroneWatcher RF Box installation on college campus

- **Low-cost Radio Frequency** (RF) sensor network
- Includes DeTect's **global drone activity** DroneWatcher Web data system and web cloud service with real-time custom user situational awareness displays and intrusion alerting service
- RF Provides **security for 98% of consumer remote controlled drone risk**
- Applications – public event security, NASCAR, sports, airports, hospitals, schools, government buildings and prisons
- DeTect also provides a **tactical deployable system** providing a versatile unit for drone surveillance in remote areas. Used in urban environments and remote locations for border patrol, law enforcement and the military operations.

Offices in: Panama City, Florida • Grand Forks, North Dakota • San Diego, California
Honolulu, Hawaii • Calgary, Alberta • London, England • Goleniow, Poland

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Technical Data

DeTect's radio frequency signal and radar detection and processing technologies make it one of the leading technologies on the market today. Developed specifically for detecting and tracking small, low-radar cross section, non-linear moving targets in complex high clutter environments.

The Drone Surveillance System is used for locating and monitoring a wide range of targets including aircraft, UAVs, drones and ultralights.

- Airspace monitoring & surveillance
- Aircraft detection & tracking
- Drone and small UAV intrusion alerting
- Ultralight (ULAD) detection
- Ground based sense-and-avoid
- Collision and obstruction avoidance
- Gap coverage & filler

The DroneWatcher Web fuses data from all sensors into a consolidated, real-time coverage and alerting display system

Applications

Applications include a wide range of sites, types, sizes and configurations from single facilities to large-area or linear radar networks for force protection and facility security, including:

- Commercial airports, civil aviation airports & military airfields & ranges
- Unmanned aerial vehicle (UAV) operations support
- Government buildings and installations
- Prisons & institutions
- Telecommunications facilities & complexes
- Industrial plants, refineries & power plants
- Ports, waterways & coastlines
- Border control areas
- High security facilities
- Stadiums, racetracks & other public venues

Features Include

- Microsoft Windows-based operating software
- Automated target classification & false positives rejection
- DeTect's global drone activity web database service, integrated radar, thermal, video, acoustic, RF & interdiction systems
- Display activated "point-and-click" video zoom & deterrent activation
- Compatible with other security & display system
- Site-specific underlay maps includes mobile mapping technology
- Identifies & tracks each target by size, position, speed & heading
- Audible & visual intrusion alarms with optional notification by email or text.

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