

TECHNICAL DATA SHEET

DRONE DETECTION & DEFENSE SOLUTIONS



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™ datasystem 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 APP & RF

- Low-cost Radio Frequency (RF) sensor network includes DroneWatcherRF™, DroneWatcher LT and DroneWatcherApp™ smartphone, tablet and Android computer app
- Includes DeTect's global drone activity DroneWatcherWeb datasystem and web cloud service with real-time custom user situational awareness displays and intrusion alerting service
- APP, LT & RF Provides security for 98% of consumer remote controlled drone risk
- Applications – public event security, NASCAR, sports, airports, hospitals, schools, government buildings, prisons & law enforcement



DroneWatcher RF Box installation on college campus

DroneWatcher DSR

DroneWatcher DSR installation at UAV testing range

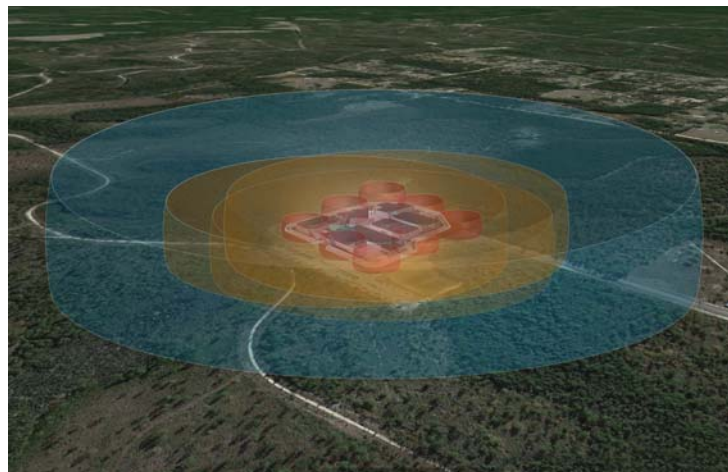


- Long range, military grade Drone Surveillance Radar (DSR) designed specifically for detection and tracking of small, low radar cross section targets in complex, high clutter environments
- 2+ mile detection range for sUAS and drones
- Detection of commercial, military and programmed flight (non RF controlled) uncooperative drones
- With DroneWatcher APP & RF provides near 100% security coverage

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DeTect's radio frequency signal and radar detection and processing technologies developed specifically for detection and tracking of small, low cross section, nonlinearly moving targets in complex, high clutter environments make it one of the most sensitive, affordable airspace surveillance technologies on the market today 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



DroneWatcher APP (RED) & RF (ORANGE) combined with the DroneWatcher Drone Surveillance Radar (BLUE) provides effective multi-layer facility for drones and small UAVs.

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



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

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 & interdiction systems
- Display activated "point-and-click" video zoom & deterrent activation
- Compatible with other security & display systems
- 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 & radio pager

