

Since 2003, DeTect has been developing & supplying state-of-the-art radar remote solutions for the Wind Energy industry with over 400 systems delivered to on- and off-shore projects worldwide. Today, the technology incorporates advanced True3D radars developed specifically for bird and bat detection, tracking and classification using integrated radar, video and acoustic sensors.

The systems are also multi-functional capable providing simultaneous bird/bat, aircraft, ship and drone detection to deliver complete solutions to wind farm operators.



## Bird Monitoring & Mitigation Systems Aircraft Detection Lighting Systems Vessel Traffic Monitoring Systems Wind Turbine Radar Interference Mitigation Beyond Visual Line-of-Sight Systems

### MERLIN™ BIRD MONITORING & MITIGATION SYSTEMS (BMS/BMMS)

Provides automated survey of bird & bat activity for pre-construction mortality risk assessment. With the mortality risk mitigation module (BMMS), the system classifies birds to the species level, automatically engaging response mitigation actions up to and including idling of turbines & activation of deterrents.

### HARRIER™ AIRCRAFT DETECTION LIGHTING SYSTEMS (ADLS)

The most advanced and widely deployed obstruction lighting management system with over 100 installations operating worldwide. HARRIER provides full 360-degree airspace surveillance for automated activation of wind farm aviation lights only when aircraft are detected within the defined perimeter.

### HARRIER VESSEL TRAFFIC MONITORING SYSTEMS (VTMS)

Provides full monitoring of the area around offshore wind farms detecting, tracking and alerting operators of vessels approaching or entering the wind farm control zone with a variety of alerting and ship warning options.

### WIND TURBINE RADAR INTERFERENCE MITIGATION (WTRIM)

HARRIER provides 'gap filling' to address military and commercial air and marine surveillance radar blockage from turbines with ASTERIX & IMO compliant data.

### HARRIER BEYOND VISUAL LINE-OF-SIGHT SYSTEMS (BVLOS)

Provides complete airspace surveillance to extend drone operations beyond line-of-sight, supporting remote turbine inspections & monitoring.



# FULLY INTEGRATED IN-HOUSE RESOURCES

DeTect's professional staff resources include experienced multi-lingual engineers, programmers, scientists, aviation safety & security specialists, and technicians that are experts in remote sensing, radar engineering, system integration, security, operation and environmental management.

Company facilities include over 40,000 square feet of office, laboratory, and manufacturing spaces in Florida (USA) and Calgary (Canada) to support design, development, assembly, testing and support of advanced radar systems. Research resources include test sites for systems, components, and software development, testing and calibration. DeTect radar systems are built to industrial and military (MILSPEC), European Union (EU CE Mark) and other international standards.

In-house manufacturing expertise includes fabrication, mechanical assembly, electronics fabrication and full, seamless integration of third-party components such as cameras, video and infrared sensors, and deterrent and interdiction devices.



## EXPERIENCE

DeTect systems are in use at facilities and projects worldwide with a proven record of exceptional performance, reliability, and operability and over five million hours of successful operating experience since 2003. The US Air Force has purchased sixteen MERLIN systems to date based on a documented record of improved aircrew safety, reduced aircraft-birdstrike damage and increased mission readiness.

NASA in 2006, after evaluation and on-site testing of various bird radar technologies, selected DeTect's MERLIN system to support space launch safety for the \$2 billion space shuttle for 22 launches through the end of the program in 2011 with 100% system uptime.

With DeTect, customers are getting more than a system. Each system is supported by DeTect's

team of application specialists who have extensive backgrounds and experience in systems design, manufacture, siting and, most importantly, integration and use of the technology in the real-world environment with effective user interfaces to meet each customer's specific business operational requirements.



## LOCATIONS

**20 YEARS** | **DeTect**  
Celebrating 20 years of excellence 2003-2023

**Corporate Headquarters** : Panama City, Florida  
**DeTect Americas** : Panama City, Florida  
**West Coast Operations** : San Diego, California  
**DeTect Canada** : Calgary, Alberta  
**DeTect Asia** : Seoul, South Korea  
**DeTect Global** : London, United Kingdom

**Tel** : + 1 (850) 763-7200  
**Email** : [contact@detect-inc.com](mailto:contact@detect-inc.com)

**[www.detect-inc.com](http://www.detect-inc.com)**

