



(<http://www.facebook.com/DeTectRadar?v=info>)



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([http://www.linkedin.com/company/detect?trk=tabs\\_biz\\_home](http://www.linkedin.com/company/detect?trk=tabs_biz_home))



(<http://www.youtube.com/user/DeTectBirdRadar/featured>)



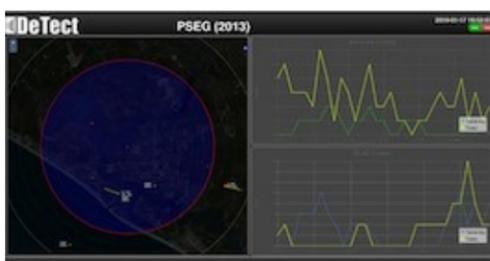
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## Aircraft Detection Lighting Systems

In response to the Dark Sky initiative to reduce light pollution and customer demand, DeTect developed the HARRIER Aircraft Detection Lighting Systems (ADLS) for automatic obstruction lighting activation for aviation obstructions such as wind farm turbines, high voltage transmission lines and communication towers.

The HARRIER ADLS provides reliable, continuous 360 degree radar surveillance of the airspace around wind farms, communications towers, power lines and installations that require aircraft obstruction lighting from the ground level to above aircraft flight altitudes, automatically issuing signals to activate obstruction lighting when aircraft are detected at a defined outer perimeter. HARRIER is the most capable technology available and meets or exceeds all regulatory requirements including the recently issued US Federal Aviation Administration (FAA) Advisory Circular and Canadian NAVCAN requirements and well as various EU standards. The FAA Performance Assessment Report states that HARRIER ADLS system met "the performance requirements identified in Chapter 14 of AC 70/7460-1L" and is published on the **FAA Website** (<http://www.airporttech.tc.faa.gov/Download/Airport-Safety-Papers-Publications/Airport-Safety-Detail/ArtMID/3682/ArticleID/164/Performance-Assessment-of-the-DeTectTM-HARRIER174-X-Band-Aircraft-Detection-Lighting-System-ADLS>) The HARRIER ADLS visual warning system additionally is compatible with all wind energy turbines, control and communication networks, and obstruction lighting systems.



The HARRIER ADLS collision avoidance system is based on DeTect's proven HARRIER ASR used for non-cooperative aircraft detection and UAV sense-and-avoid and the system provides aircraft detection out to 24+ miles with continuous tracking and lighting signal activation (through SCADA or direct interfaces). The HARRIER ADLS is highly customizable for each site and application with multiple alert zones and activation perimeters, and is available as a stand-alone system or integrated with other sensors and warning devices such as audible beacons. The typical national standard (FAA, Transport Canada) minimum range is 3- 4 miles and HARRIER exceeds the expected minimum by a safety factor of more than 400%. Additionally, HARRIER's speed measurement and

heading monitoring exceeds agency requirements for range for detection and activation. The HARRIER ADLS also provides continuous recording of operational data (aircraft detections and flight tracks, lighting activation events, and system information) to internal SQL Datasystem with customizable auto-reporting feature for recordkeeping and compliance documentation. With DeTect's MERLIN processor add-on, a HARRIER ADLS can additionally provide ADLS, bird radar and drone surveillance functionality from a common sensor platform.

HARRIER ADLS advantages include:

- Long range capability provides greater margin of safety.
- Compatible with all turbines, communication networks & lighting systems
- Low cost of acquisition & O&M State-of-the-art solid state
- High MTBF Doppler solid-state radar technology
- Lower installation cost, ground-based sensor packages
- Multi-function capable for bird & intruder detection
- Backed by full parts & labor warranty
- The HARRIER Aircraft Detection Lighting System is the most widely deployed and proven ADLS system on the market with systems

installed and operating in the US, Canada and Europe.

### TECHNOLOGIES



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