



TECHNICAL DATA SHEET

HARRIER Security Radars

HARRIER GBSAA

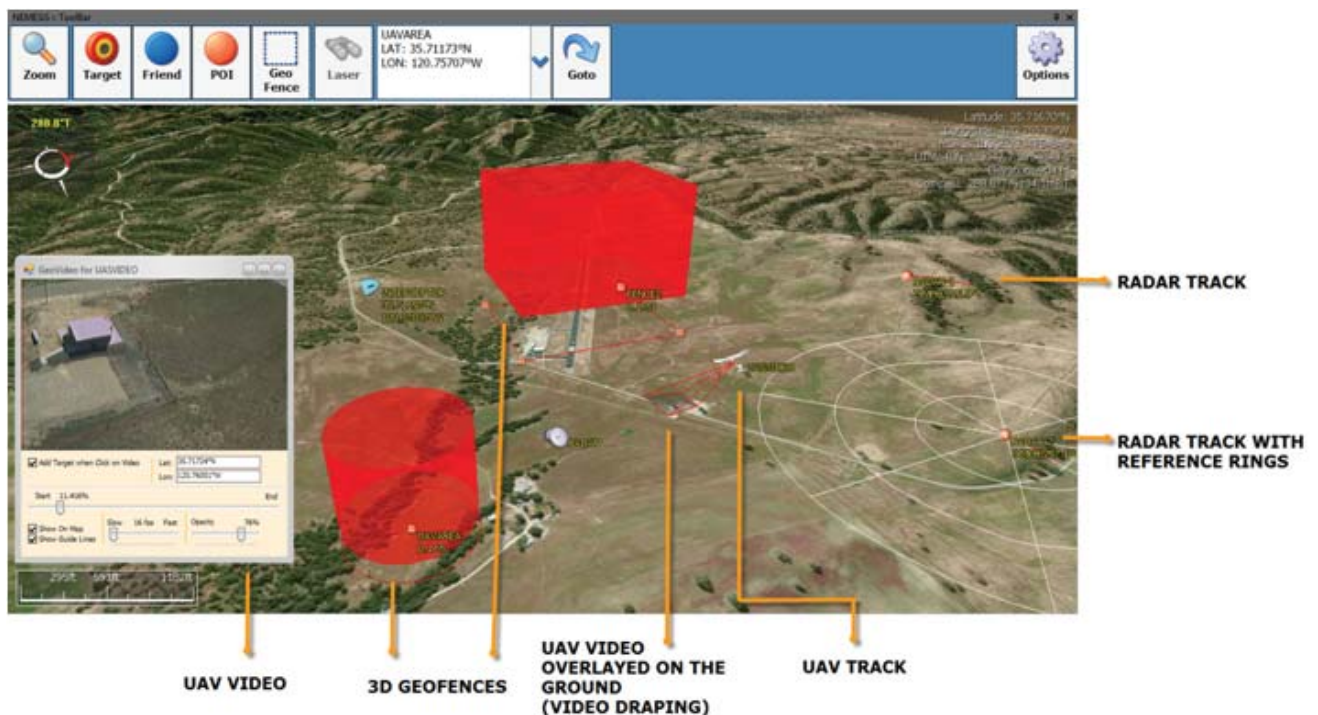
Ground Based Sense & Avoid



Detect Inc. has developed the HARRIER ASR sensor, a ground based Airspace Surveillance Radar (ASR) system with integrated TCAS and ADS-B to support UAV flight operations. The HARRIER ASR is a solid state, 200 watt S and/or X-band sensor that can be installed onto an automated tower system to allow the radar to be elevated to a desired operational height and can also be installed onto a fixed tower for permanent range surveillance.

Available configurations include fixed or portable installations (DeDetect or customer supplied vehicle) as well as two and three-dimensional target detection. The solution is field proven with an established installed customer base.

Right:
NEMISiS
Command &
Control
Platform



Applications:

- Airspace monitoring of all cooperative and non-cooperative aircraft
- Low RCS detection capability includes UAV's and Ultralight aircraft
- Full Control of UAV or Stand alone situational awareness suite

Benefits:

- COTS solution; low initial acquisition cost and low TCO
- Portable or fixed 2d and 3d solutions
- All solid state sensors for extremely high MTBF and very low MTTR

Features:

- Integrated TCAS and ADS-B for secondary surveillance monitoring
- Integrated day / night camera options
- Standard or custom data outputs for third party integration
- 2d and 3d Geofence capability with user configurable alerts / actions
- Video Draping Module shows live video overlay on the terrain map

Model: GBSAA (Ground Based Sense & Avoid)

Functionality: Supports multi-function real-time surveillance with user-definable perimeter intrusion alerting

Configuration: Available in fixed or fully self-contained mobile (trailer, truck or towered) configurations

Radar Sensor: 200W Solid State X or S Band with doppler and frequency diversity options available

Features: Utilizes DeTect's field proven, military grade clutter suppression and target detection and tracking algorithms for low radar cross section (RCS) targets in complex environments

Deployable as single standalone sensor or in linear sensor networks

Supports integration with C2/C4I using DeTect SDK or standard output protocols (ICD-0100 or ASTERIX)

Target-of-interest options include size, class, speed, heading & target trails

Ancillary equipment integration includes automatic slew-to-cue & slew-to-track using CCTV video, thermal & acoustic sensors & hailing/deterrent devices (Long Range Acoustic devices - LRADS)

Network: TCP/IP supports multi-user remote system display and control via fiber optic, wireless, SATCOM or cellular data networks

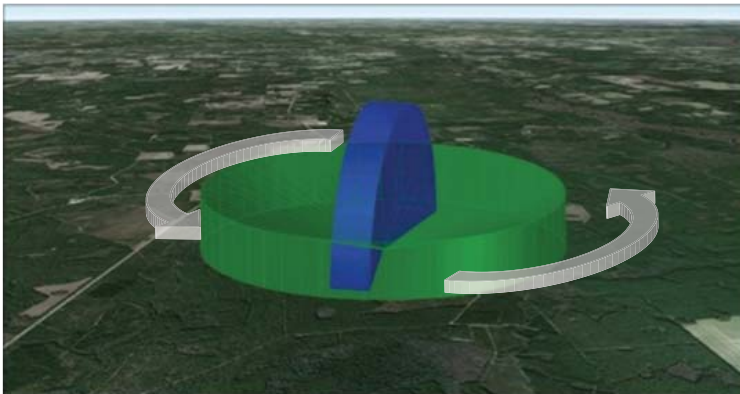
Right: Fixed Mounted Horizontal Sensor Platform; GBSAA / HSR-F



Right: Fixed Mounted Vertical Sensor Platform; GBSAA / VSR-F



Below: Volume of Airspace; Horizontal and Rotating Vertical Sensors



Right: Fixed Sensor on Customer Supplied Vehicle

