

RADARS AND SENSORS

GRYPHON R1400/R1410 AIR SURVEILLANCE RADARS

The Gryphon R1400 family of radars leverages next-generation radar technology for **unmatched small UAS detection** capability in a small, lightweight, portable package.

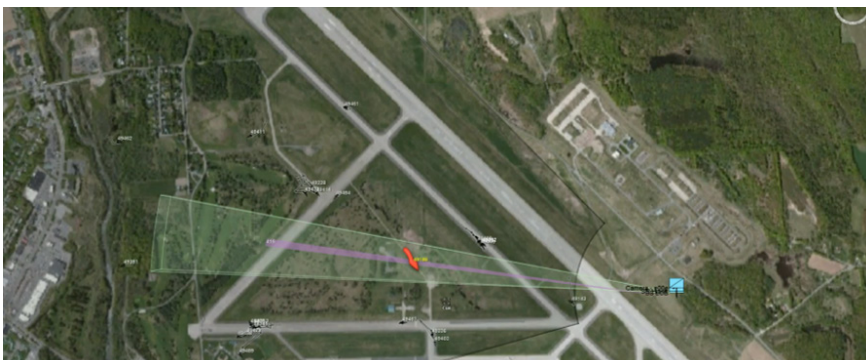
The Gryphon R1400/R1410 systems are 3-D Active Electronically Scanned Array (AESA) air surveillance radars designed specifically for the detection of small, low-flying targets.

This family of radars provides rapid, precise detection and tracking of airborne targets including small unmanned aircraft systems (UAS), general aviation, birds, and other cooperative or non-cooperative targets of interest. As an AESA radar, it provides accurate target position and velocity in a configurable hemispherical volume of coverage: 360 degrees in azimuth and 90 degrees in elevation.

The radar is designed for maximum flexibility in operation including all-weather, permanent or mobile emplacement. It also features customized data output options to meet the needs of any application. The radar can be set up in minutes and comes with built-in, user friendly interface software for quick configuration.



THE GRYPHON R1400 FAMILY OF RADARS DELIVERS NEXT-GENERATION RADAR TECHNOLOGY IN A SMALL, LIGHTWEIGHT FORM FACTOR



GRYPHON R1400/R1410 AIR SURVEILLANCE RADARS

The Gryphon R1400 family of radars is ideal for:

- Drone security
- Beyond visual line of sight (BVLOS) UAS integration
- Intellectual property protection

APPLICATIONS

Air Surveillance for BVLOS UAS Integration Applications

- UAS Traffic Management (UTM)
- Precision agriculture
- Product deliveries
- Rail, pipeline, or powerline inspections
- Gap filler for airspace deconfliction

Air Surveillance for Security Applications

- Critical asset protection
- Intellectual property protection
- Airport security
- Sports venue surveillance
- Special event security
- Border surveillance

SPECIFICATIONS

- Weight: 80 lb (36.3 kg) for radar only, 200 lb (90.7 kg) with tripod and positioner
- Input power: Standard wall outlet capable (US & EU)
- Transmit type: Pulse-Doppler
- Tunable frequency: 9.3-9.8 GHz (X band), 5 MHz bandwidth
- Interface: Ethernet
- Detection Range: Small manned aircraft ≤ 27 km, small UAS ≤ 10 km
- Azimuth coverage: Definable sector or full 360°
- Elevation coverage: Definable up to hemispherical (90°)
- Environment: Designed to MIL-STD-810G
- Electromagnetic: Designed to MIL-STD-461F and FCC/CE/UL standards

FEATURES

- ▶ Low size, weight and power (SWaP), man transportable
- ▶ Set up and operate within minutes
- ▶ 24/7 operation in all weather conditions
- ▶ User-friendly interface for configuration, command and control
- ▶ Situational awareness for both cooperative and non-cooperative targets for safety and security
- ▶ Built-in target tracking and classification; tracks hundreds of targets simultaneously
- ▶ Low false alarm rate
- ▶ Automatic data recording with playback
- ▶ Networkable: integrates and cues other sensors (like cameras) with high accuracy



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