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 leverages next-generation radar technology for unmatched small UAS detection capability in a small, lightweight, portable package.
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