

GRYPHON R1430/R1440 MULTI-MISSION/DOMAIN RADAR

Compact, high-performance system for hemispherical surveillance of **air, ground, & sea targets**

Available in 3-panel (R1430) and 4-panel (R1440) configurations, the Gryphon R1430/1440 is a 3-D, fully active electronically scanned array (AESA) multi-mission/domain radar. It benefits from common logistics and sparing with other Gryphon radars. This compact, lightweight, high-performance system can simultaneously detect and track unmanned aircraft systems (UAS), manned aircraft, ground vehicles, personnel, watercraft, and rocket, artillery and mortar (RAM) threats. It offers class-leading performance for detection range, accuracy, tracking and clutter rejection. The built in AI-based classifier provides the operator with target type while the state-of-the-art tracker provides location and velocity.

The Gryphon R1430/R1440 is vehicle mountable and can operate on-the-move to improve survivability of military forces. The radar can be

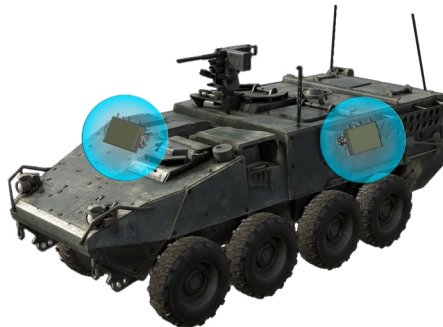
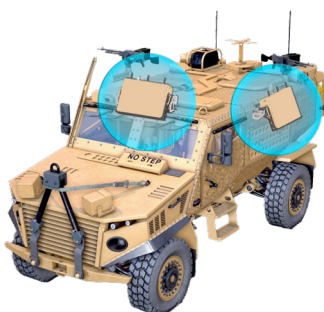
integrated with countermeasure systems, such as turret mounted guns, loitering munitions and high energy laser systems, and it can cue cameras and EW systems. As part of a fire control system, the radar delivers firing coordinates to an integrated weapon system and tracks both the target and the integrated weapon munitions to determine and recalculate firing coordinates on-the-fly. The radar can simultaneously operate in search and track modes, including high update rate precision track beams, enabling the system to track and direct fire toward a threat while scanning the entire volume for additional targets.

This compact, high-performance Gryphon R1430/R1440 radar provides hemispherical surveillance and cues countermeasures for the protection of the war fighter and high value assets against UAS, rockets, surface ships, ground vehicles and more.

**THE GRYPHON R1430/R1440
RADAR COMBINES A 3-D AIR
COOLED AESA ANTENNA WITH
AN AI-BASED CLASSIFIER TO
DETECT, TRACK, WARN, & CUE
COUNTER MEASURES AGAINST
THREATS OF ALL TYPES**



GRYPHON
MULTI-MISSION RADARS



R1430 - 3 panel configuration

GRYPHON R1430/R1440

MULTI-MISSION/DOMAIN RADAR

APPLICATIONS

As a multi-mission/domain radar, the Gryphon R1430/R1440 can perform all the following simultaneously

- Air surveillance
- Counter-UAS (including swarms)
- Convoy protection
- Ground surveillance
- Surface search
- Border protection
- Weapon/sensor cueing
- Counterfire
- Weapons locating

BENEFITS

- Provides optimal balance of performance and price
- Small form factor and built-in GPS/INU makes the radar easy to transport and expands installation possibilities
- Air cooled for improved reliability
- Excellent performance in strong clutter
- Outstanding doppler resolution
- Can detect and track extremely slow-moving targets



SPECIFICATIONS

- Size: 48cm x 67cm x 33 cm (18.9in x 26.4in x 13in) (single panel)
- Weight: 51.7 kg (114 lbs) (single panel)
- Power: 1.5 kW (single panel)
- Detection range
 - 7.7 km (4.8 mi) for small UAS
 - 18 km (11.2 mi) for large UAS
 - 16.5 km (10.3 mi) for single person
 - 29 km (18 mi) for small vehicles and boats
 - 25 km (15.5 mi) small manned aircraft
 - 42.5 km (26.4 mi) for large manned aircraft
- Coverage volume: 120° in azimuth, 90° elevation (single panel)
- Frequency: X-band
- Environmental: Designed to meet Mil-STD-810
- EMI: Designed to meet Mil-STD-461
- Operating temperature: -40° C to +60° C



FEATURES

- Hemispherical surveillance
- On-the-move operation
- Open Architecture
- Extended Kalman filter (EKF) based tracker with interacting multiple model (IMM)
- AI-supported target classification
- Interfaces:
 - ASTERIX, RES, TCUT, SAPIENT
- C2s:
 - FAAD, Lattice, IBCS, MSCT, MEDUSA, Vigilant Halo, AFATDS and more
- Electronic protection against interference jamming
- 3-D user display with pan & zoom features
- Automatic data recording with playback
- Anti-tamper/information assurance built in
- Built-in test for automatic fault detection & isolation
- Operator manuals, maintenance manuals, training courses, integrated logistics support, and depot services available



800-724-0451 • inquiries@srcinc.com • www.srcinc.com

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