

# ROOF GUARD™ COUNTER-ISR SYSTEM

Extremely low-SWaP, unattended, counter-ISR system providing **passive detection and early warning of adversary radar and ISR activity**

The *Roof Guard*™ counter-intelligence, surveillance, and reconnaissance (ISR) system is a first-in-class, low-size, weight and power (SWaP), rapidly deployed, passive detection and alert system. The system helps improve survivability and situational awareness by giving warfighters early warning of adversary airborne targeting and can integrate with a variety of counter-measures to help disrupt enemy tracking abilities.

The *Roof Guard* system can be used to protect special operations forces, vehicles, forward operating bases (FoBs), and to support expeditionary advanced base operations (EABO) in any environment. Once adversary collection activity is detected, the system provides the operator with an immediate alert, delivering critical intel to help disrupt the enemy's command and control and complicate their objectives.

## Simple Deployment and Operation

The *Roof Guard* system is extremely low power and low profile, enabling rapid and simple emplacement.

## THE ROOF GUARD SYSTEM INCREASES SITUATIONAL AWARENESS AND ENHANCES SECURITY AND SURVIVABILITY

The system's intuitive user interface and alerts make it easy for any operator to use without specialized training.

### Intelligence Discovery

During long-term unattended counter-ISR missions, the system collects and stores adversary collection activity history to help analysts determine adversary collection priority and operational tempo.

Additionally, SRC's advanced machine learning capabilities can be applied to new signals with intent-based detection and classification. This intelligence increases the operator's situational awareness, providing improved security.

## APPLICATIONS

The *Roof Guard* system is ideal for force protection missions of forward deployed teams, detecting, classifying and alerting ground forces to hostile airborne radars.

The system can also assist with counter-unmanned aircraft systems (UAS) missions by detecting ISR from hostile UAS. The system enables detection of ISR signals from groups 3 and 4 UAS in addition to smaller UAS.

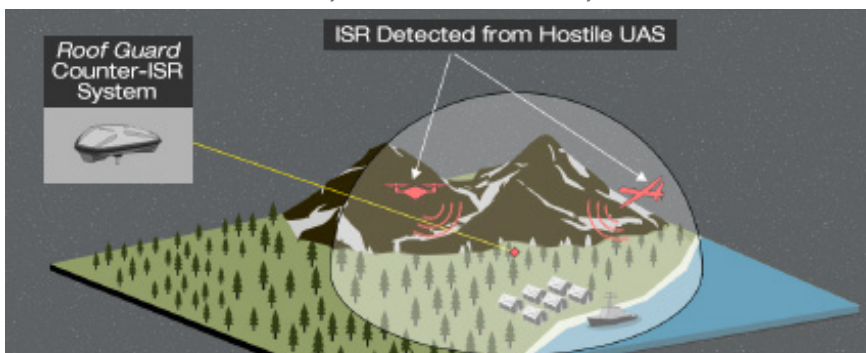
Common applications include:

- Counter-ISR
- Counter-UAS
- Force protection
- SIGINT data collection
- Warfighter survivability

## BENEFITS

- Integrates seamlessly into almost any scenario, be it expeditionary, moving vehicle or fixed-site installation
- Helps protect warfighters and critical infrastructure by providing early warning of ISR
- Assists in discovering security vulnerabilities through long-term data collection
- Operates passively, eliminating the probability of detection by adversaries
- Provides highly reliable long-term performance through solid-state design

BELOW: SRC's *Roof Guard* counter-ISR system detects surveillance activity from hostile UAS



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## SPECIFICATIONS

- Operational Frequency:
  - X-band
  - Additional bands available on request
- System size: 8 in (L) x 10 in (W) x 4 in (H)
- System weight: 2.2 lbs
- Temperature range: -40°C to +65°C
- Power requirements: 5W, 8-24 VDC input, 120VAC supported with included adapter
- Interfaces
  - USB Host – Mass Storage Class (for flash drive attachment)
  - Single button operation to initiate USB transfers
  - RS-422 Serial port
  - Ethernet 10/100 Mbps
  - 5 Status LEDs

BELOW: Top, side and bottom view of SRC's Roof Guard counter-ISR system



BELOW: SRC's Roof Guard counter-ISR system mounted on a vehicle



## FEATURES

- Completely passive system with zero probability of detection
- Stores up to one month of mission data in onboard storage – storage is expandable to accommodate longer unattended missions
- Signal classification is done on device without the need for external processing
- Real-time alerts to Tactical Assault Kit (TAK) and Android Team Awareness Kit (ATAK) enabled forces
- Extremely low-SWaP
- No moving parts
- Simple installation and operation



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