



CACI is an industry leader in developing, deploying, and integrating sophisticated counter-small unmanned aircraft systems (C-sUAS) capabilities through the SkyTracker® Technology Suite (CORIAN™, AWAIR® and BEAM™). Automatic Warning of Aerial Intrusions and Response (AWAIR) is a ruggedized, portable, radio frequency (RF)-based system capable of detection, identification and interdiction of s-UAS (groups 1 and 2) while on the move. The system is designed to exploit the radio communications between sUAS and their controllers. This ruggedized platform leverages the CORIAN software baseline and evolves the CORIAN field-proven technology by reducing size, weight, power, and cost to produce a mobile solution. The system can be easily deployed on a vehicle or vessel, providing both ground and maritime protection.

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For more information about our SkyTracker Technology Suite, visit:

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Highlights

- Open architecture design enables ease of integration with existing defense systems
- Ruggedized and environmentally tested
- Uses software-defined radio technology for easy updates
- Features intuitive user interface
- Allows for near real-time detection, identification, and mitigation
- Enables forensic collection, including data links, video, and telemetry
- Adaptable to new threats through software updates
- Role-based access for enhanced security



User Laptop

Interconnect Cable



Processing Unit (PCU)



Antenna Subsystem

System Features

Detection: Automated detection of sUAS airframes and their handsets allows the sensor to locate both the aircraft and its operator.

Identification: Advanced specific emitter identification technology accurately identifies sUAS threats by recognizing their distinctive radio signatures.

Exploitation: The system can capture and store video from sUAS equipped with video cameras. If the sUAS has embedded GPS data in its datalink, the system can plot and track the sUAS location.

Mitigation: The system uses precision electronic mitigation techniques that do not degrade legitimate communications.

Automated: Autonomously provides alerts, identification, and mission command and control and reports system health and status.

Post-Event Analysis: Sensors collect forensic data for analysis, post-mission exploitation, and prosecution.

SkyTracker System Collaboration: AWAIR, BEAM, CORIAN (ABC) integration offers shared health and status, detections shared between hardware (detections from BEAM sent to CORIAN and AWAIR), self-healing mesh network, collaborative geolocations, and cooperative tasking (AWAIR can initiate a CORIAN mitigation).

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