

# Truffle Hound

## PORTABLE C-UAS AWARENESS



### Radio Frequency UAS Detection and Geolocation

#### Low-Cost Counter-UAS Capability

Truffle Hound provides a low-cost, handheld capability for detecting RF emissions from unmanned aerial systems, enabling forces to counter the rapidly growing drone threat without reliance on expensive, fixed-site solutions.

#### Detection & Direction Finding

The system detects, identifies, and determines the bearing of target drone signals in real time, providing immediate threat awareness and enabling operators to track targets in contested environments. It integrates with layered defense networks to support cross-domain sensing and cueing across additional detection systems.

#### Machine Learning for RF Discrimination

Truffle Hound uses machine learning models to classify and separate RF signals in congested spectrums, enabling reliable detection and reduced false positives. The system can classify and locate both video return and operator control links. It is readily adaptable to other emitters such as radar and advanced RF systems.

#### Distributed Tactical Deployment

Built on lightweight software-defined radios and commercial-off-the-shelf hardware, the Truffle Hound platform enables handheld, fixed, or airborne deployment. It supports distributed operations and scalable sensing across the battlespace.

#### DRONE MOUNTED



Low-SWaP hardware mounted on UAS

On-the-loop and in-the-loop monitoring

Locate and prosecute radar systems and operators, including frequency-hopped and chip-hopped signals

#### FIXED INSTALLATION



Persistent, networked perimeter monitoring

Integrate with existing layered defense ecosystem

Support automated threat response

#### HANDHELD



C-UAS detection and direction-finding on handheld mobile devices

Low cost, commercially available components compatible with various hardware platforms

Adaptable models to fit multiple target platforms

#### ATAK INTEGRATION



Plugin for Android Team Awareness Kit (ATAK) for deployment across hardened Android devices

Integrate with device's existing resources

Highly portable for rapid deployment

**Truffle Hound: Government-trusted and ready to be tailored for your commercial needs, contact Stellar!**

