## SKYHAWK AIRBORNE HF GEO-LOCATION SYSTEM



## Single-Pulse, Single-Platform HF Vector Geo-Location (VGL)



#### **DESCRIPTION**

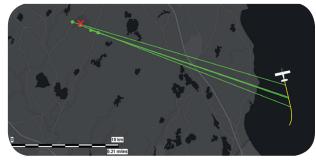
- Breakthrough, low-SWaP airborne HF Vector Geo-location (VGL) system
- Measures instantaneous vector to target from a single pulse, from a single platform
- Geo-location service to existing COMINT systems via Application Program Interface (API) over Ethernet
- Single, low-SWaP 14" BRU-mount pod using standard aircraft power
- Ideal configuration for both manned and unmanned aerial platforms
- Optional expansion to VHF and UHF bands

## **BENEFITS**

- Fills mission gap for airborne HF geo-location
- Instantaneous geo-location dramatically reduces time to target
- Allows geo-location of a single, short-duration (one second) emission
- Single aircraft to perform geo-location reduces operations and maintenance costs



VGL Pod on Cessna O-2 Skymaster



Display of VGL Fix on Ground Target

# SKYHAWK AIRBORNE HF GEO-LOCATION SYSTEM



### **FEATURES**

Revolutionary approach to airborne geo-location

- Measures an instantaneous vector to ground targets
- Utilizes small fractional wavelength antenna elements
- Superior DF approach compared to traditional systems (e.g., amplitude, phase, TDOA, FDOA)

## Frequency Coverage:

HF: 2 MHz to 30 MHz

• VHF/UHF: 30 MHz to 3 GHz (Option)

40 MHz IBW Receiver

DF Accuracy: 2.5° RMS (Azimuth & Elevation)

Cursor-on-Target (CoT) messaging compatible

with existing C2 systems

JICD 4.2 compliant

### PHYSICAL CHARACTERISTICS (POD)

Size: 12" diameter x 67" long

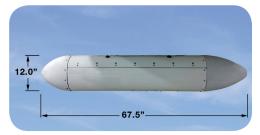
Weight: 50 pounds Power: 80 watts

#### **ENVIRONMENT**

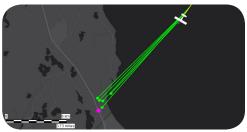
Temperature: -40 °C to +50 °C Altitude: 40,000 feet (Operational)

#### **NETWORK INTERFACES**

Gigabit Ethernet for Command, Control and Data



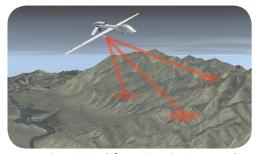
Pod Dimensions



VGL Operator Screen



VGL Pod on Cessna-208



Low-SWaP Pod for MQ-1C Gray Eagle

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