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
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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