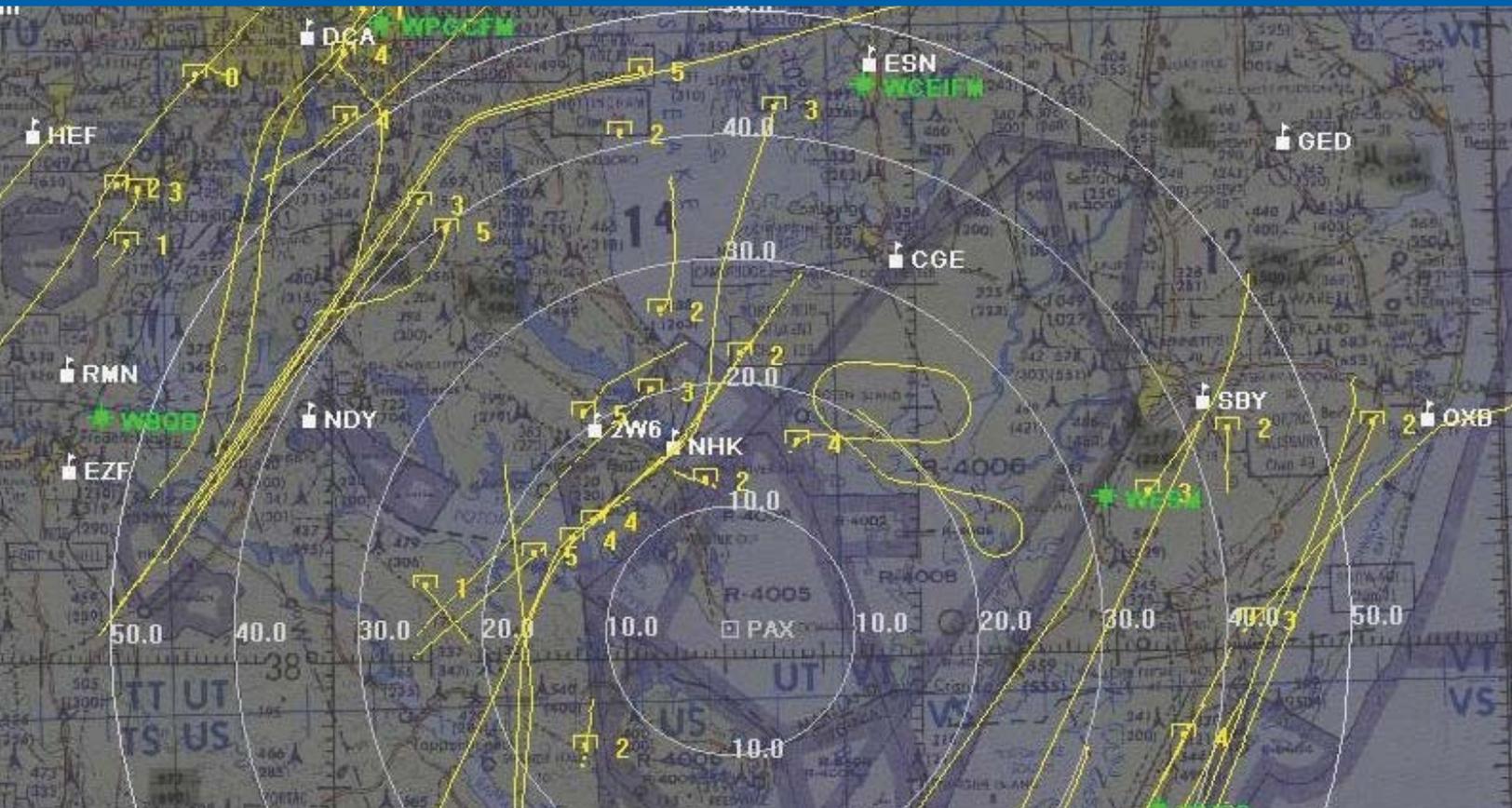




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We never forget who we're working for™

Silent Sentry®
Innovative Technology for Passive, Persistent Surveillance



Innovative Technology for Passive, Persistent Surveillance



Silent Sentry's Passive Coherent Location (PCL) technology provides precise, real-time, all-weather detection and tracking ideal for air surveillance, missile tracking and homeland security applications. Silent Sentry's innovative approach is totally passive, allowing targets to be tracked without generating any RF energy by using existing broadcast signals from FM radio and TV (analog and digital) transmitters across the globe. This virtually undetectable surveillance system has no safety or environmental impact. With no moving parts and a commercial off-the-shelf (COTS) approach, Silent Sentry is less expensive to acquire, operate and maintain than traditional radar systems.

Silent Sentry systems provide covert, robust performance featuring three-dimensional tracking with highly accurate horizontal position and velocity measurements. A modular, flexible, network-ready COTS design facilitates integration with legacy and emerging systems. Silent Sentry systems are compact, easily deployed, and configurable for a variety of surveillance applications.

Capabilities

Performance

Surveillance Volume

- Azimuth: Up to 360 degrees
- Elevation: 60 degrees
- Continuous Search

Range

- Typically 0 to 150 nmi within FOV
- Depends on antenna used

Targets

- 100+ simultaneously
- Aircraft, missiles, vehicles, ships

Accuracy (FM)

- 150 m horizontal position
- 1000 m vertical position
- < 2 m/s horizontal velocity
- Better positional accuracy with HDTV

Data Output

- Silent Sentry track format or OTH Gold
- Link 16 (planned)
- XML (planned)

Portability

Configurations

- Installation on fixed or mobile platforms

Form Factor:

- VME rack
- 2' x 2' transit cases
- Easy to ship or transport

Deployment

- 1-2 person setup

Survivability

Operating Environment

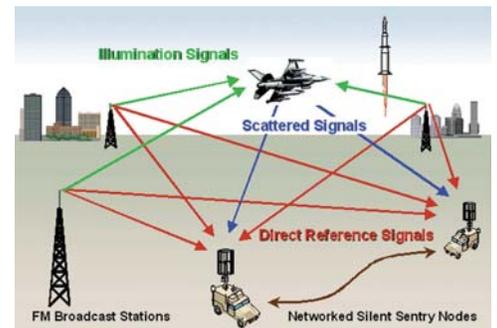
- Room temperature
- Shelter protected
- 1.5 kw 120V power

Reliability

- COTS product based
- No moving parts
- All-weather capable

Detectability

- Covert when operating with indigenous illumination



Principles of Operation

RF energy already existing in the environment from broadcast radio and TV transmitters is scattered from a target and collected by the Silent Sentry receiver, which then compares the scattered waves to the direct signal to determine the location and velocity of the target.

For more information, contact:

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