

## PRODUCT OVERVIEW

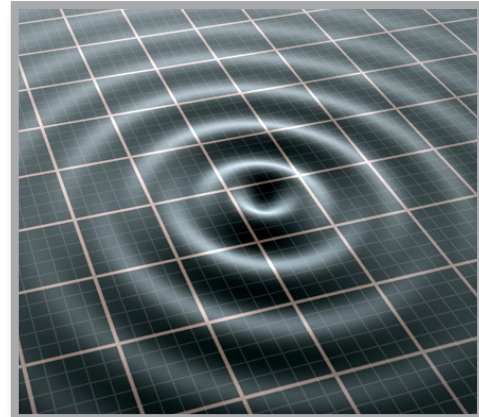
SIFT (Strategic Intelligence Forward-looking Technology) Magnetic Sensor System dramatically extends the range at which existing sensor systems can detect large and small security threats. SIFT detects threats greater than 50 meters away - three to five times the detection range of existing sensor systems.

SIFT uses real-time, self-contained technology to identify, characterize, measure and track ferrous and ferromagnetic disturbances in an electromagnetic field. It detects and differentiates information such as the intensity of the disturbance and sends the data to a local or remote monitoring system.

Designed for use in a range of scenarios – from asset protection to unattended ground sensors– the SIFT system can easily integrate into virtually any infrastructure, including a situational awareness platform. It has a small footprint, low power consumption, high-reliability detection and provides alerts in multiple protocols.

## HOW IT WORKS

SIFT technology blends creative hardware design with Digital Signal Processing (DSP) to compare real-time data to historical data and “SIFT” minute signals from the background. The system provides intelligent output for either targeting or removing signals of interest and may be configured for sensitivity and filtering variations. SIFT can operate in raw data mode or a peripheral interface mode for use in a variety of applications from advanced tracking and heuristics to custom filtering for stand-alone deployment. The system provides intelligent output for advanced heuristics and filtering use. SIFT provides directional/vector information as well as indications of threat size and characterization. The sensor also uses advanced filtering to distinguish between true events of interest and other magnetic anomalies, such as solar flares and lightning.



## DESIGNED FOR

- *Border and Perimeter Protection*
- *Checkpoint Security*
- *Counter Explosives*
- *Asset Protection*
- *Unattended Ground Sensors*

## KEY FEATURES

- *Extended detection envelope/range identifies\**
  - *Personnel up to 15M away*
  - *Wheeled vehicles up to 50M away*
  - *Tracked vehicles up to 100M away*
- *No user calibration necessary – dynamically self-adjusting*
- *High reliability detection and low false alarm rate*
- *Low operating power (<15mW) maximizes field life*
- *Small footprint/micro-sized available (less than 10cm<sup>3</sup>)*
- *Upgradeable, cost effective solution*
- *Modular, open, extensible architecture*
- *Stand-alone or as integrated cue for other systems*

\*SIFT has been rigorously tested both in-house and by the U.S. government.