TREASURES™
Tactical Reconnaissance and Surveillance Enhanced System

Unattended Ground Sensors (UGS)
TREASURESTM
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TREASURESTM is a unique UGS system, which enables continuous force or border protection and enhanced Situational Awareness. The system can be used to counter enemy activity and ensure a short and efficient sensor-to-shooter cycle. TREASURESTM detects, classifies and tracks human and vehicular targets, in real time, on any terrain and in all weather conditions. The system uses a broad network of sensor clusters, with intelligent dedicated communication, breakthrough sensing technologies and data analysis capabilities. The low-maintenance system is comprised of light weight, small form factor components and can be deployed rapidly without accessories or infrastructure. TREASURESTM is a flexible system which enables easy integration with third-party sensors, subsystems and C4I systems.

Operational flexibility for a variety of tactical needs – TREASURESTM is an ideal solution for a wide variety of operational requirements with diverse situational constraints. Using a sophisticated system-of-systems approach, TREASURESTM is optimized for the automatic selection of sensors best suited for each mission, as well as for the support of future upgrades.

Shared infrastructure for ease of operation – With the common infrastructure utilized in TREASURESTM, all sensors share the same communications framework, with a single management application controlling all relevant sensors. The solution features automatic planning and deployment of management tools with no operational specialty required.
Modular system components – TREASURES™ is comprised of a series of advanced sensors and control components which can each operate independently.

**OCEAN – Seismic Acoustic Multi-Detector.** The unique acoustic sensors array enables Direction Finding (DF) and wind interferences reduction, alongside Seismic-Acoustic fused algorithm which enables False Alarm Rate (FAR) reduction and high capabilities of target classification and tracking.

**TALOS™ – Unattended Ground Radar.** Patented ultra low power design, enables integrated solar panels for no energy limitations. Omni-directional with a wide vertical Field-of-View for hundreds of meters of targets tracking, and significantly low-cost.

**MTR – Miniature Tactical Radar.** Innovative Unattended Ground Radar, patented ultra low power design, enables integrated solar panels for no energy limitations. MTR works on ground level featuring long UGS detection ranges. Provides wide sectorial and vertical Field-of-View. A breakthrough in the world of UGS capabilities.

**MID – Miniature Imaging Detector.** Small and lightweight Day/Night (Color CCD and Thermal) imager with VMD capabilities for visual recognition, and with video transmission growth potential.

**Chameleon 2 – Day and thermal video covert sensor, with inner pan capabilities for wide area and high resolution coverage, with no external moving parts. Uses wide band communication for the video transmission.**

**Communications Unit** – Uses a proprietary protocol designed for ground networked communication. Allows multiple system uses: Control station hub; relay for communication range extension; attaching additional detectors and effectors to the network.

**Gateway** – A field deployed F1/F2 relay for range extension to remote control stations.
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Key Features

• Low energy components design
• Wide variety of sensing technologies
• Proprietary robust communications protocol
• Multi-Hop, Ad-Hoc, Self-Forming and Self-Healing network
• Classification and data correlation algorithms
• Backhaul communications network
• Modular and flexible architecture
• Low energy components design

Key Benefits

• Simple deployment and planning capabilities
• Tactical solution oriented
• Operational flexibility
• Cost effective
• Small form factor