

# E-UGS *Expendable Unattended Ground Sensors*

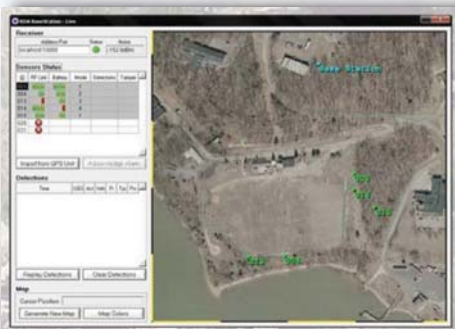
The E-UGS system from ARA offers dramatic improvement over existing UGS systems. The performance is outstanding; the low cost makes the sensors expendable. Contact ARA for more details or to schedule a demonstration of this technology.

## Applications

- Force Protection
- Perimeter Monitoring for FOB Protection
- Border Security

## Features Benefits

- Unprecedented Long Range RF Link
- Extremely Low Power Consumption
- Superior Algorithms
- Compact and Lightweight
- Cost Effective
- Provides wide area coverage from a single monitoring station without bulky amplifiers or repeaters
- Batteries have long life suitable for arctic and desert conditions
- Low false alarm rate and excellent discrimination between vehicles and footsteps
- Easy to transport, store, deploy, and conceal in any environment
- Inexpensive enough to leave in place rather than risking retrieval



### Area Map Displaying Active Sensors & Status

- Sensor status and system performance are displayed on the screen
- E-UGS locations are automatically imported
- Uses standard NGA maps or user generated JPEGs.



### Area Map with Sensor Detection Notification

- Detection locations are displayed on map
- Type and time of detections are reported in the status window
- Audible alarm sounds after each detection



**SENSOR SYSTEMS**

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# **E-UGS** *Expendable Unattended Ground Sensors*

## **Notice:**

The E-UGS system is subject to the International Traffic in Arms Regulation (ITAR). The data contained in this document is limited to general information. Contact ARA for more information on the E-UGS system.

## **Specifications**

- Size: Small and concealable
- Power: Non-rechargeable, replaceable batteries
- Weight: Man-portable
- Operating Temperature: Suitable for arctic and desert environments
- Environmental: Waterproof and dustproof
- Electromagnetic Interference: Meets emission and susceptibility standards

## **Operating Modes**

Various modes enable the E-UGS system to detect vehicles and footsteps.

## **RF Communications**

E-UGS features a unique high RF link margin that permits signal exfiltration from within buildings and rural and urban terrain over very long RF ranges potentially to receivers located in UAVs or satellites.

## **Capabilities**

- Persistent operations up to several months.
- Low cost when compared to conventional equivalent.
- High volume production.
- Quick and easy deployment.
- Inclusion of additional mission sets.

## **Available in Two Configurations**

- Configuration A: Stand-Alone Solution
  - Toughbook user interface with touch screen and user software
  - RF receiver unit
  - Antennas, cables, etc.
- Configuration B: For Customer Integration
  - User software for loading on customer computer
  - RF receiver unit with built-in processing
  - Antennas, cables, etc.



**E-UGS in shipping cases**



**E-UGS Monitoring Station**