# QINETIQ

# EARS®
# Wireless
# Fixed Site

Gunshot Detector System

EARS Wireless Fixed Site Gunshot Detector System combines multiple EARS sensors and mesh radio technology for large area coverage and greater capability. Effective for small arms fire and indirect fire weapons, the sensors enhance situational awareness and provide protection.

## How It Works

Deployed rapidly, EARS sensors self-locate and automatically form a mesh network providing a protection bubble to cover a point asset, a perimeter or a large area.

QinetiQ's advanced algorithms combine data from all sensors in the network to compute the most robust solution. A compact tablet controller displays the point of origin of hostile fire within seconds of the shot being fired.

EARS Wireless Fixed Site was designed with our proven and fielded EARS® SWATS® (shoulder-worn acoustic targeting system) technology.

## Key Features and Benefits

Detects, locates and displays hostile shooter location, bullet path, and caliber

Lightweight

Rugged and reliable

Accurate and effective

Operates in challenging environments

Self-locating sensors with built-in GPS

Cursor-on-Target output integrates with TAK and Nett Warrior

Optional ISA output available for integration with other defense systems

Mobile and rapidly deployed

Interoperable and flexible
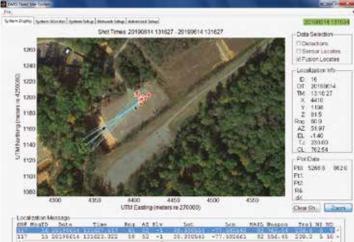
Enhances situational awareness

Provides early warning against hostile attacks

Increases survivability and lethality

Saves lives

# QINETIQ



*Ten Sensor Kit*



*Controller Display*





## EARS Wireless General Specifications

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|---|---|
| **Small, lightweight and low power** | Sensor:<br>Length: 4.9" (12.5 cm)<br>Width: 3.3" (8.5 cm)<br>Depth: 2.16" (5.5 cm)<br>Weight (with antenna): 9.9 ounces (282 grams)<br>550 mW (sensor and radio)<br>216-hr sensor battery life (BA-2590)<br>Sensor compatible with solar power<br><br>Tablet Display:<br>Depth: .78" (2 cm)<br>Width: 7.87" (20 cm)<br>Height: 5.1" (13 cm)<br>Weight: 18.4 ounces (523 grams) |
| **Complete solution** | Detects subsonic fire, supersonic rifle fire, indirect fire, and explosions<br>Reports point of origin<br>Reports estimated bullet path and caliber for rifle fire |
| **Interoperable and flexible** | Support for CoT and ISA output<br>Integrates with numerous SA and C4ISR systems including TAK and Nett Warrior |
| **Display features** | Sensor locations<br>Sensor status<br>Threat locations with date/time and grid coordinates<br>Caliber classification<br>Selectable display of detections, individual sensor localizations, or network localizations<br>Compatible with Windows laptops or tablets |
| **Mulitple applications** | Perimeter protection<br>Area protection<br>Point protection<br>Border protection |

## Collaborating with QinetiQ

At QinetiQ we bring organizations and people together to provide innovative solutions to real world problems, creating customer advantage. Working with our partners and customers, we collaborate widely, working in partnership, listening hard and thinking through what customers need. Building trusted partnerships, we are helping customers anticipate and shape future requirements, adding value and future advantage.

**www.QinetiQ.com**