Specifications

	EARS SWATS Shoulder-Worn Acoustic Targeting System	EARS VMS Vehicle Mounted System	EARS FSS Fixed Site System
Weight	427 grams	4.37 Kg	3.54 Kg
Size	472 cc	20,000 cc	18,000 cc
Environmental -MIL-STD-810F	-Compliant with seventeen 810F tests	-Sensor compliant with seventeen 810F tests -Display 810F compliant	
EMI/RFI -MIL-STD-461E -CE	-Compliant with five 461E tests -CE compliant	-Sensor compliant with five 461E tests and CE -Display 461E and CE compliant	
Detection Performance	95% detection rate +/- 7.5 degrees bearing accuracy 10% of range accuracy > 400m detection range		
Power Requirements	600 mW Two CR123 3.3-5.5 VDC External	3.4 W 12-30 VDC	3.4 W 100-240 VAC 50/60 Hz 12-30 VDC

QinetiQ
North America

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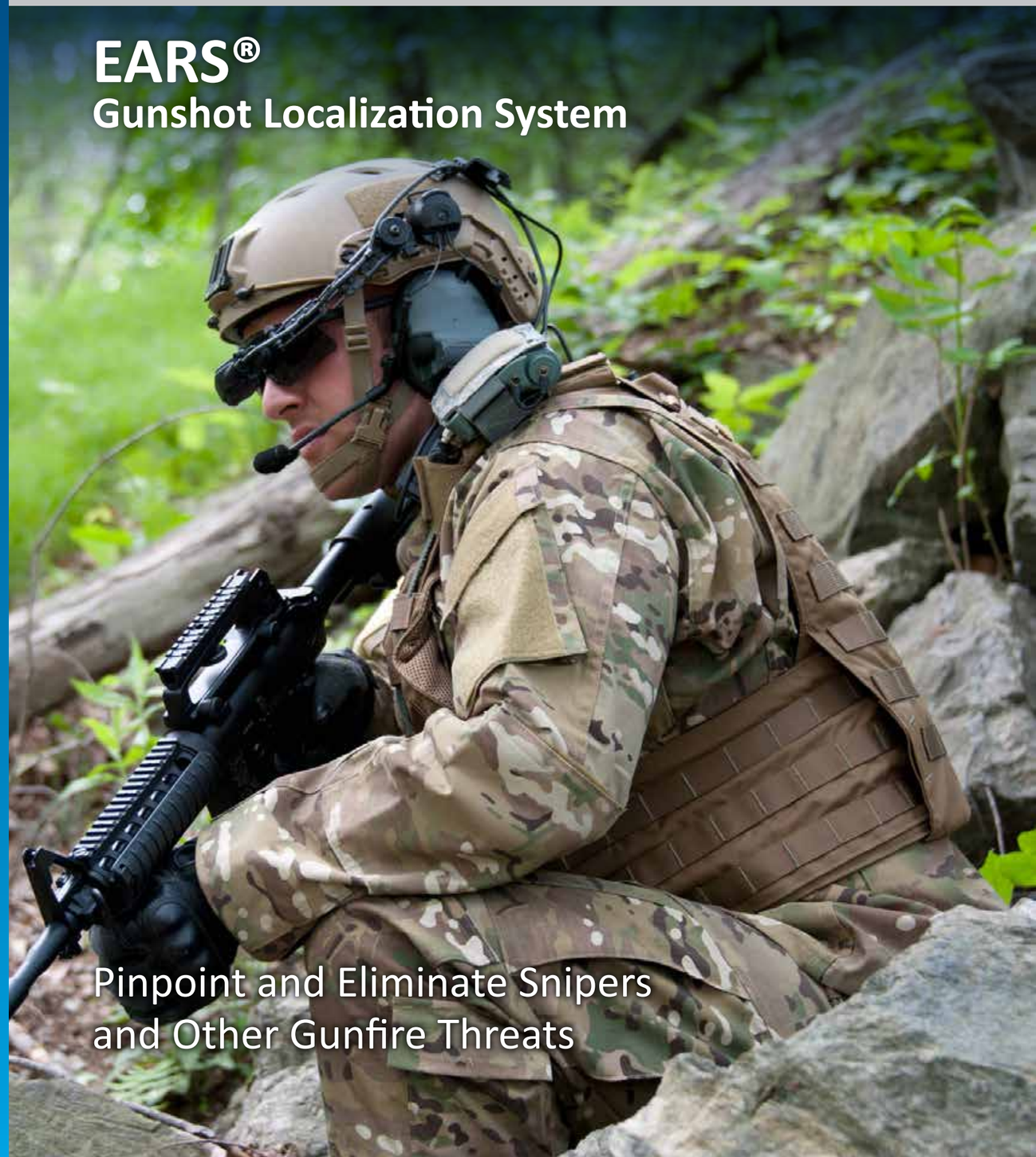
QinetiQ
North America

EARS®
Gunshot Localization System



Pinpoint and Eliminate Snipers
and Other Gunfire Threats

QinetiQ North America's EARS® family of gunshot localization systems gives warfighters the situational awareness necessary to respond instantly and accurately to hostile attacks and to better protect themselves from snipers and other gunfire threats.

EARS instantly detects and locates the origin of incoming hostile gunfire and alerts the user with an audible voice announcement (e.g., "3 o'clock, 400 meters"). Body-worn, vehicle-mounted and fixed-site systems are available. All three variants use the core EARS sensor, which is an extremely small, lightweight, low-power, self-contained gunshot detector system. With built-in GPS location and timing, EARS provides on-demand visual and audible updates with the threat's current direction and distance, even as the user changes position to move to cover or engage the threat. EARS also provides geo-referenced threat positions to facilitate coordination with other military resources that might be needed to eliminate the threat.

EARS SWATS®

(Shoulder-Worn Acoustic Targeting System)

SWATS empowers warfighters to go immediately from a defensive to an offensive posture when encountering enemy fire. Using the EARS sensor mounted on the warfighter's non-firing shoulder, SWATS provides a hands-free voice alert, as well as a graphical threat display. SWATS is easy to use, comes with a pocket-sized, waterproof Quick Reference Guide and can be used effectively with minimal training. The entire SWATS system weighs less than 450g and operates for 14 hours on two CR123 batteries.

EARS VMS

(Vehicle Mounted System)

The VMS kit repurposes a single EARS sensor for vehicle-mounted applications. The VMS includes a ruggedized mount, cabling and a power interface box for installation on a variety of vehicle platforms. EARS VMS is vehicle-powered and can be installed by one person in about 10 minutes with no specialized tools. No external or internal vehicle modifications are necessary. EARS VMS includes a ruggedized display unit and mounting bracket, as well as an audio output for connection to an in-vehicle loudspeaker or intercom system.

QinetiQ North America

EARS FSS

(Fixed Site System)

The FSS adapts the EARS sensor for stationary perimeter-protection applications. The FSS kit includes a tripod, tripod mount adaptor and a global AC/DC power adaptor. The power adaptor will support operation using a BA5590 battery, or mains voltage from 110V to 240V and 50/60 Hz. The FSS includes a ruggedized PDA display, as well as an audio output for connection to a speaker/audio system.

Features and Benefits

- **Fast** – Locates hostile shooter in < 1 second, allowing immediate react to contact capability
- **Compact** – Presents a low profile in body-worn, vehicle and fixed-site configurations
- **Lightweight** – Minimal additional weight to carry on warfighter or vehicle
- **Low power** – Supports long missions without changing batteries
- **Flexible** – The common EARS sensor is easily movable between configurations
- **Voice, graphical and numerical threat alerts** – Increases lethality by providing range, bearing and grid position of hostile shooter
- **Intelligent** – Increases survivability by providing users with constantly updated situational awareness on enemy shooter's location
- **Accurate** – Effective in complex acoustic MOUT and open field environments. Sophisticated algorithms effectively eliminate false alarms
- **Relevant** – Developed in conjunction with end-users, combat-proven and widely deployed with US and Allied militaries
- **Field proven** – More than 17,000 units sold and used in combat in Iraq and Afghanistan since 2008