

# Boomerang Warrior-X

Compact Soldier Worn Shooter Detection System



Boomerang Warrior-X combines powerful acoustic processing technology with compact, lightweight hardware to provide proven shooter detection solutions to the dismounted soldier.

## Features

- Hostile shooter localization in azimuth, range, and elevation
- Operates in all orientations (standing, prone, or leaning)
- Full motion compensation
- Return fire alert suppression
- Simple operation and user interface
- User Outputs: Visual/Aural Custom display of relative shooter location, alphanumeric display, and earpiece
- Shot recall capability

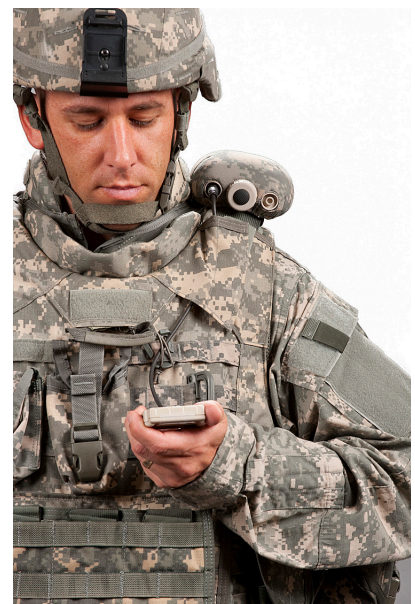
## Performance

- Shot Detection: >95% of super-sonic projectiles
- False Alerts: <2%
- Bearing Error: <7.5°
- Range Error: +/- 20%
- Bullet Miss Distance: 1m to 25m +
- Response Time: <1 second

Boomerang Warrior-X is the best performing, most cost-effective compact dismounted shooter detection system available worldwide. At only 11 ounces, the Warrior-X system automatically alerts the individual of hostile small arms fire and accurately localizes the shooter(s) position, allowing for a rapid, informed, and coordinated response. The system works in both urban and mountainous terrain, without the need for user input. As with the Boomerang System, false alerts are non-existent. The ability to quickly and reliably identify the location of enemy firing locations provides the intelligence necessary to minimize threats and avoid human casualties.

The single, shoulder-mounted sensor provides individual soldiers immediate awareness of hostile fire locations whether during sniper (single shots) or rapid-fire engagements. When integrated, Warrior-X can provide unit leaders with the shooter grid coordinates with pin-point accuracy, enhancing the situational awareness needed to effectively coordinate team responses to hostile fire.

Incoming shot announcements are heard from either a built-in speaker or through an earpiece. A light-weight visual display provides range, and



### Performance (cont.)

- Operational Duration: up to 12 hours

### Advanced Product Benefits

- GPS based shooter grid location output and data interface
- Enhanced rapid fire engagement (burst fire) capabilities
- User configurable shot detection exclusion zone
- Shot identification beyond 500 meters
- Simple integration to third-party systems
- Reliable performance beyond 50m bullet miss distance
- Data port included for software upgrades and download of event history

### Size and Weight

- Sensor System Size: 4.3"H x 3.2"W x ~1.7"D
- Display Size: 2.6"H x 2.3"W x .68"D
- Total System Size: <22 in<sup>3</sup>
- Total System Weight: 11 oz

### Data Interface

- Data Interface: USB

### Environmental

- Operating Temperature Range: -33° to 60°C
- Storage Temperature Range: -40° to 71°C

### Products/Options

- Optional Wrist Display
- System Integration Kit
- Ruggedized Carry Case

azimuth, elevation of hostile shooter relative to the soldier. As the individual moves, the system automatically compensates for the individual's motion and continually updates the threat's location on the display. Advanced shot recall technology is built into the system's computing technology for rapid after action review or to update bearing and location to a previous shooter's location while an individual maneuvers in an engagement area.

Boomerang Warrior-X provides the same reliability, features, and advanced product benefits as the widely fielded vehicle-mounted Boomerang III system – just significantly smaller, light weight, and integrated with tactical vests.



To learn more about Boomerang Warrior-X, please call or write:

Raytheon BBN Technologies  
10 Moulton Street  
Cambridge, MA 02138  
617-873-3121  
Boomerang@bbn.com  
www.bbn.com

**Raytheon**  
**BBN Technologies**