Raytheon
BBN Technologies

Boomerang Perimeter Defense Solution

Shooter Detection Using Boomerang Situation Awareness System (SAS)

The Boomerang Perimeter Defense Solution combines state-of-the-art shooter detection technology with an advanced situational awareness system that reports hostile shooter activity in under a second. An ideal solution for critical asset protection against shooter-based threats allowing for a rapid, informed, and coordinated response.

Benefits

- Proven, most accurate gunshot detection capability available
- Fully tested, military-grade system
- Currently 10,000 systems currently protecting critical infrastructure in the US and Overseas
- No recurring costs or maintenance required
- 100+ integrations with third-party technologies

Performance

- Display and report hostile shooter within one (1) second from Boomerang report
- Processes up to 3,600 shot events per hour
- Shot file storage: 90 days
- Close Bullet Miss Detection Range: >0.25 M
- Wide Bullet Miss Detection Range: >50 M
- Response Time: 1 second

The Boomerang Shooter Detection System instantaneously reports the hostile shooter's position to the Boomerang Situation Awareness System (SAS). The Boomerang SAS immediately pinpoints the hostile shooter(s) and displays the shooter's location onto a map, allowing for a rapid, informed and coordinated response.

The shooter detection and localization information is instantly displayed onto a single graphic display. This combined approach provides security personnel with the enhanced capabilities required to defeat small-arms perimeter threats and prevents loss of life.

The Boomerang SAS architecture supports any perimeter range from security check points to vast critical infrastructures. Regardless of the area or terrain, whether in a heavily populated urban environment or a remote location, the Boomerang SAS instantaneously reports the hostile shooter position on an intuitive, easy-to-use mapping environment.

The Boomerang SAS software remotely configures and networks multiple fixed-site Boomerang Systems and displays shooter location(s) instantaneously on a digitized map or overhead imagery. Shooter locations are stored and replayed upon demand for intelligence or after action reviews. Maps or overhead imagery may be pre-loaded or imported for specific formats.

Features

- Visual display of Boomerang sensors and shot detection locations
- Intuitive, easy-to-use mapping interface
- Dynamic load and display of map data (RPF, CIB, CADRG)
- Advanced map tools, such as configurable exclusion zones
- Event history replay with "snap back" feature if new events are detected
- Fusion of shot events from multiple Boomerang systems
- Import/export functionality

Software

- Windows XP Professional SP3
- Situational Awareness Application
- BoomTools Application

Mechanical

- Weight-Total System: <7.5 lbs

CPU & Display

- Minimum Intel® CoreTM i5-540M (2.53GHz, L3 3MB, vProTM) – 15.4" widescreen 1920 x 1200 WUXGA LCD – ATI RadeonTM HD5650, 512MB dedicated VRAM
- 15.4" LCD Display

Storage & Memory

- 4 GByte SDRam
- 160 GByte Hard Drive

Product/Options

- Boomerang Shooter Detection System (required)
- Boomerang Position and Heading Sensor
- Boomerang Static Installation Kit
- Boomerang Power/ Distribution Unit
- Radar Intrusion Detection System
- MUSKRAT Video Security Solution

Boomerang is uniquely designed to be easily integrated with existing third-party technologies such as camera devices, commercial surveillance systems, radar systems, and other detection commodities saving operators significant time and resources by eliminating the need to reacquire additional capabilities. As a result, Boomerang Perimeter Defense Solution users now have the most reliable situation awareness information necessary from any command location to rapidly deploy an informed, coordinated response resulting in threat minimization and asset fortification.

To learn more about Boomerang, please call or write:

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