

GUARDIAN INDOOR **ACTIVE SHOOTER** DETECTION SYSTEM

Product Overview



SHOOTER
DETECTION
SYSTEMS

AN ALARM.COM COMPANY

THE #1 CHOICE IN GUNSHOT DETECTION

205,000,000+
HOURS IN SERVICE

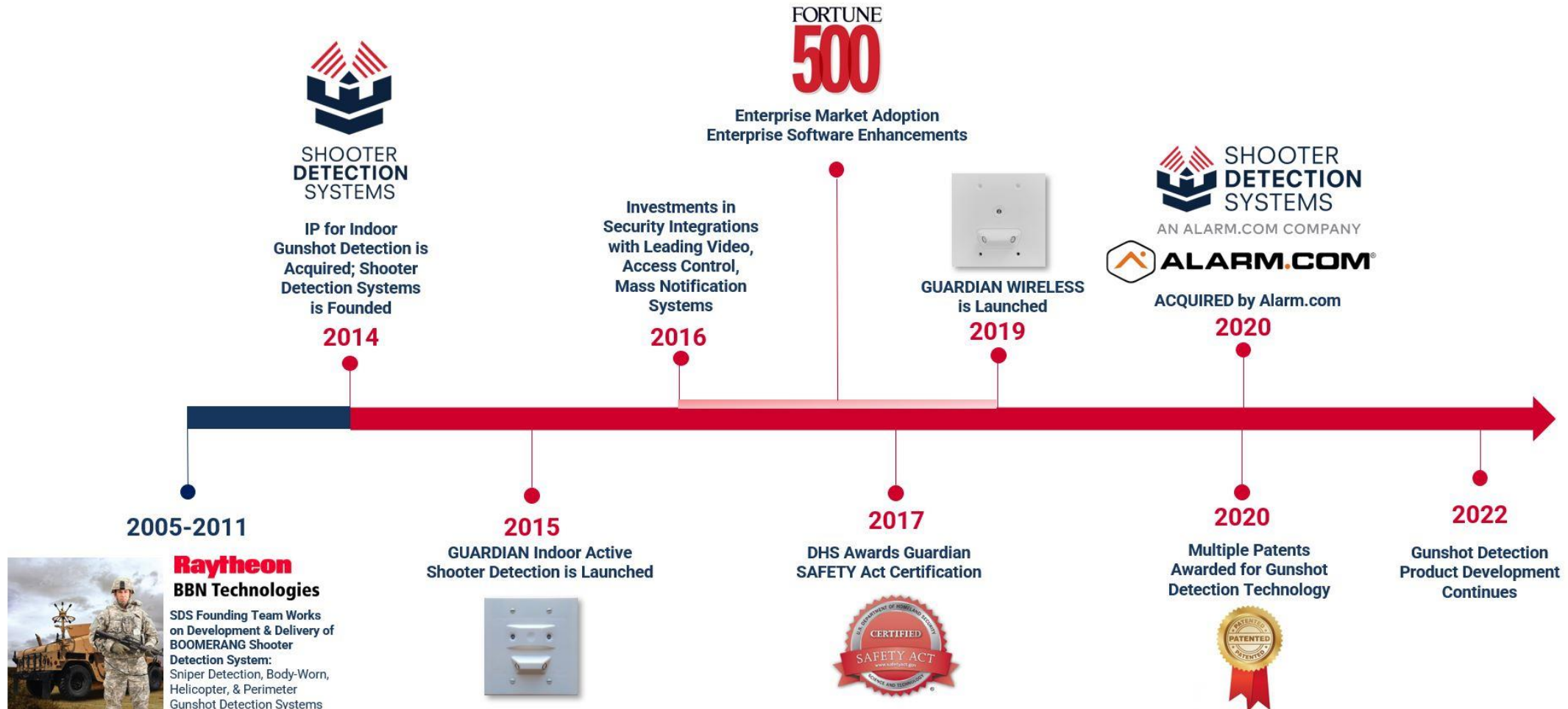
100%
DETECTION RATE

500+
CUSTOMER SITES

Protecting schools, corporations and public venues from active shooters since 2015

Shooter Detection Systems

A History of Lifesaving Innovation



The Active Shooter Threat

No Location is Immune

- An active shooter is an individual actively engaged in killing or attempting to kill people in a confined or populated area.
- Most mass shootings take place in workplaces, followed by schools.¹
- Most workplace shootings are carried out by an existing or former employee. Most school shootings are carried out by a former student.¹
- **The average active shooter incident is less than 5 minutes in duration.²**
- **An average of one death occurs every 5-15 seconds during an active shooter incident.³**



Municipal Offices: Virginia Beach, VA 2019



UNC Charlotte, NC, 2019



Marjory Stoneman Douglas HS, Parkland, FL 2018



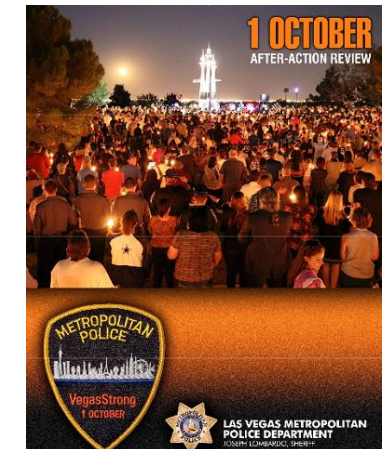
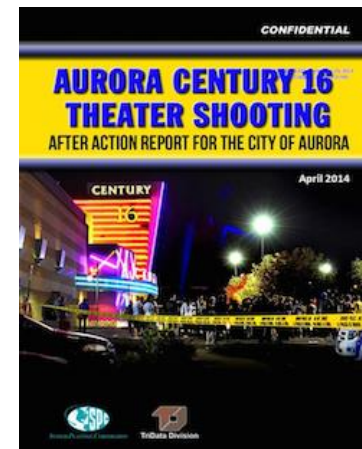
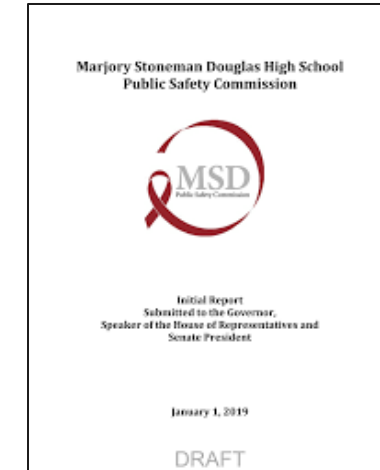
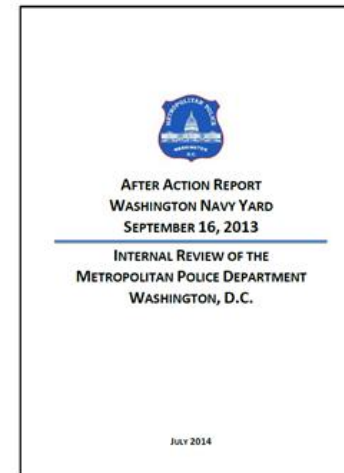
FedEx, Indianapolis, IN 2021

Active Shooter After Action Reporting

What Really Happens?

After-Action Reporting on most active shooter incidents reveal 3 common problems that impeded active shooter response:

1. Delayed reporting of the incident, usually due to panic and misinformation relayed to first responders
2. Time lost locating the shooter's whereabouts
3. The inability to communicate in real time with Law Enforcement, building occupants and security teams as the incident unfolds



Active Shooter Response

How does Gunshot Detection help?



WITHOUT GUNSHOT DETECTION

WHAT was that? Was that a shot?
WHERE is it happening?
WHEN did it start?
WHO is the shooter?
HOW many shooters?
What should I do??

Redstone Arsenal
@TeamREDSTONE

Possible active shooter on the Arsenal. Installation is locked down. Run hide fight.

Retweets 1,887 Likes 672

11:24 AM - 27 Jun 2017

Vadim Lavrusik (@Lavrusik) 9:57 PM - Apr 3, 2018
Active shooter at YouTube HQ. Heard shots and saw people running while at my desk. Now barricaded inside a room with coworkers.

jeff 7:09 AM - 5/13/19 · Twitter for iPhone
there's an active shooter in the lakewood ymca....

WITH GUNSHOT DETECTION

Real time, verified alerts

SHOT DETECTED!
AT THIS BUILDING
ON THIS FLOOR
IN THIS LOCATION



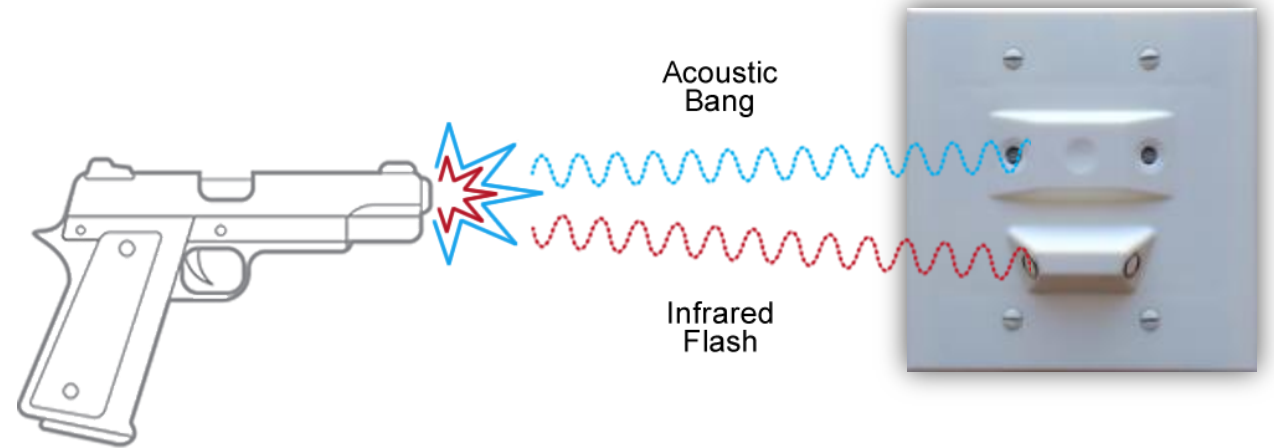
Guardian Indoor Shooter Detection

Sensor Technology



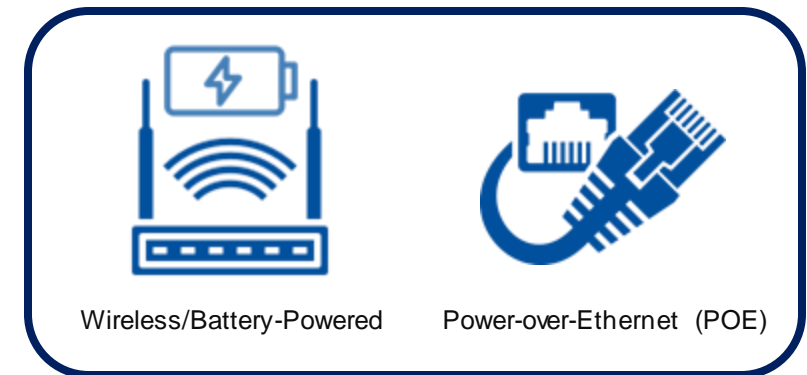
Built-In Reliability & Accuracy

- Microphones listen for weapon muzzle blast
- IR sensors look for muzzle flash signatures
- The Guardian Sensor validates an Acoustic Bang by also looking for an Infrared Flash
- >99% accuracy rate
- <1 false alert per 5M hours of use



Features & Specifications

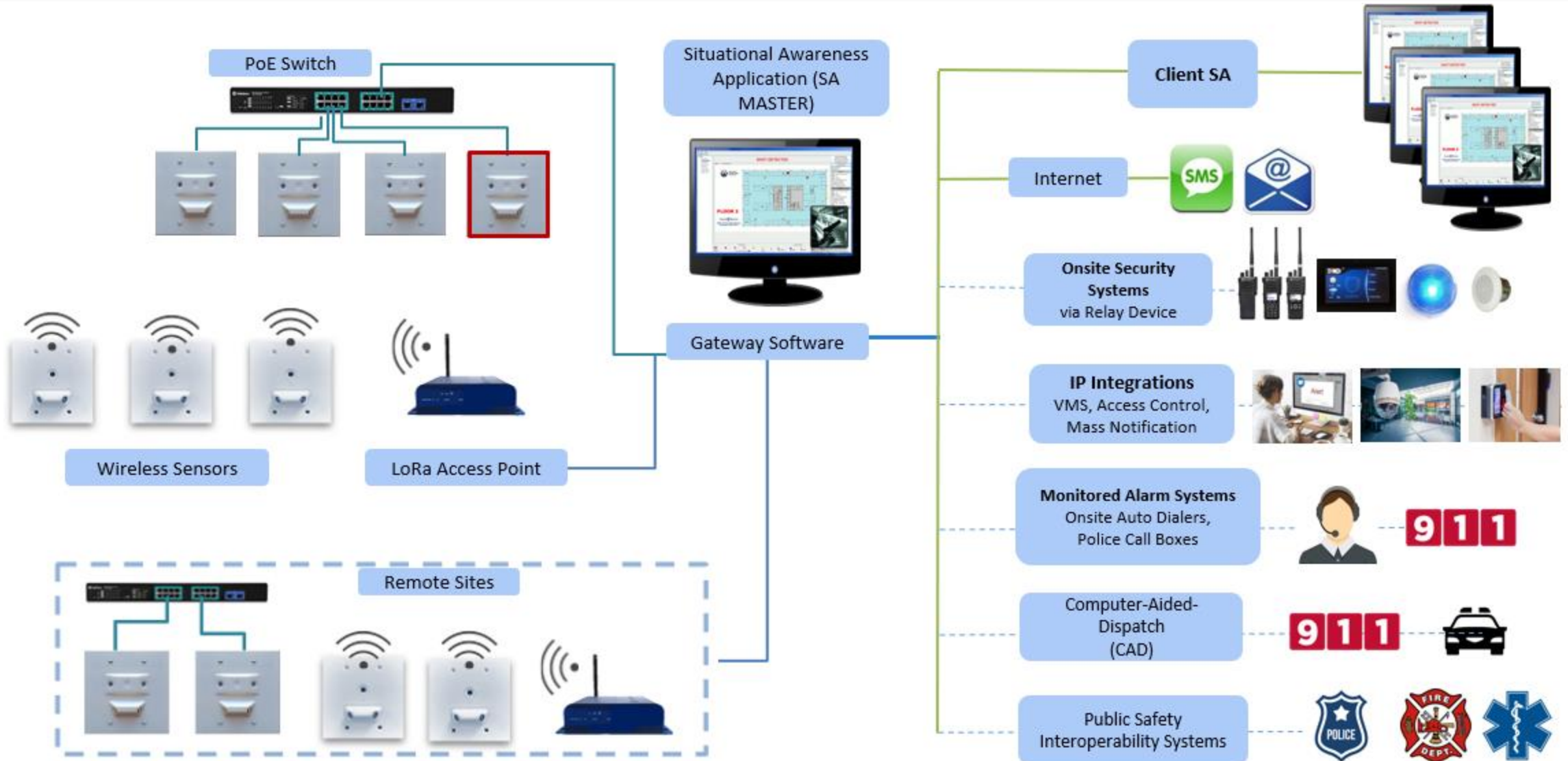
- PoE and Wireless/Battery-Powered versions available
- Fast, accurate alerting
- No triangulation required
- No calibration required
- Detect low caliber (.22) and higher caliber weapons
- Heartbeat messages
- Tamper/Maintenance Alerts
- Certified 3rd Party Integrations
- Hardware/Firmware upgrades
- Proven, mature product



Guardian sensors are available in both Wireless/Battery-Powered and PoE sensor options.

Guardian Indoor Shooter Detection

PoE and/or Wireless Deployment



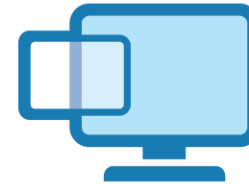
Guardian Indoor Shooter Detection

Enterprise Features – IT Compliance



IPv6

DHCPv6, Static IPv6, Link-Local and SLAAC addressing formats as well as DNS



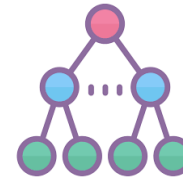
Virtual Environment

Applications may be installed on a virtual machine or in the cloud



TLS

Supports TLS (1.2 and 1.3) including ECDSA and RSA certificates



Active Directory

Authentication and role-based authorization



High Availability (HA)

Support for Global Load Balancer to control traffic providing failover capability



Auditing

Log reporting for all configuration changes



SQL

SQL Database Backend

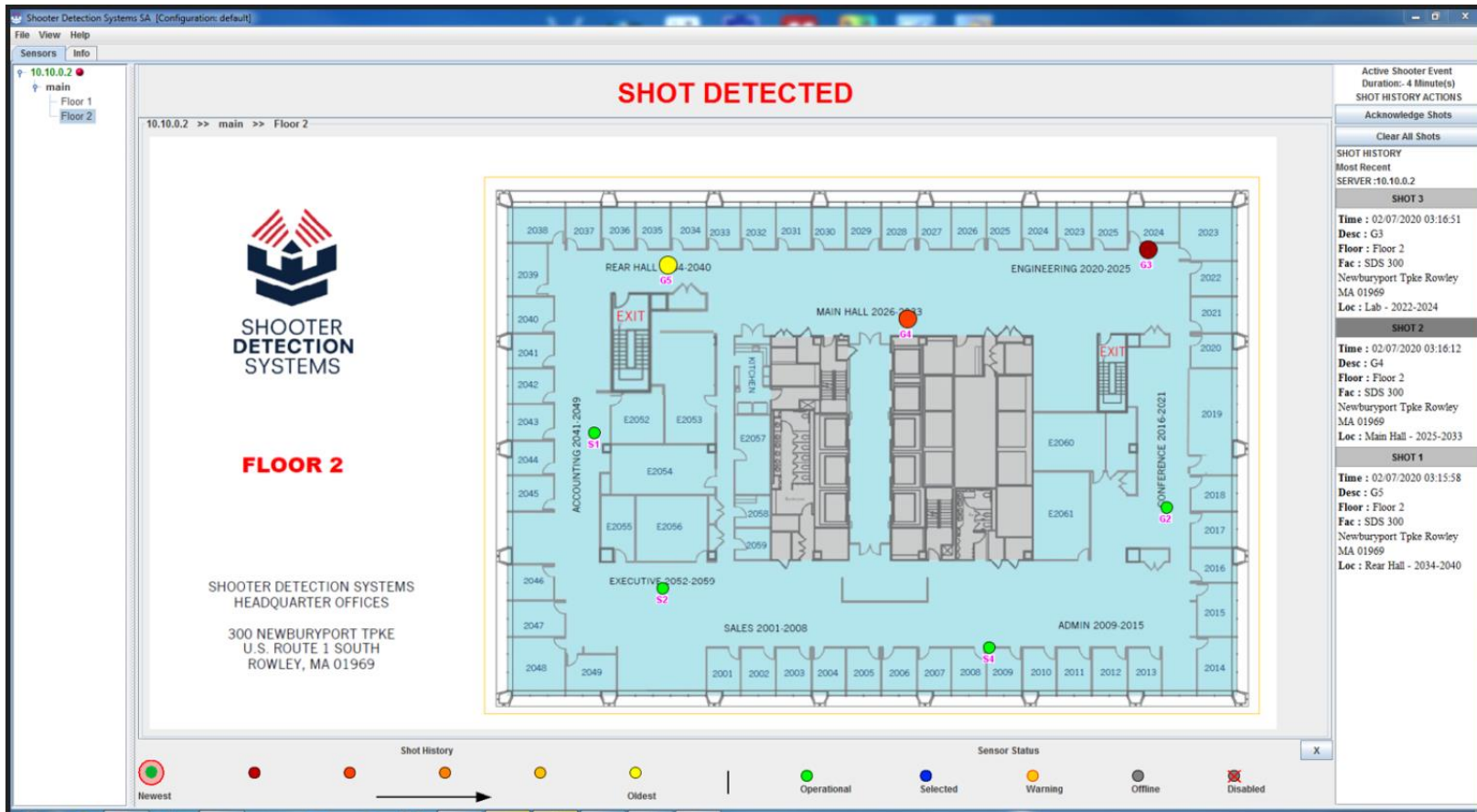


EAPoL (802.1x)

Extensible Authentication Protocol over LAN (secure connections to servers)

Guardian Software

Scalable Situational Awareness



Software Highlights

- Multi-floor, Multi-site
- Sensor Health & Status
- Desktop Takeover
- Audible & Visual Alerts
- “Breadcrumb Trail”
- Shot Timeline

Scalability

- Single-site deployments to multi-site/multi-campus; global enterprises
- Manage/view thousands of sensors, hundreds of buildings/floors, multiple campuses from single location

The Guardian Situational Awareness Application (SA) scales from one to thousands of sensors, hundreds of buildings, and even multiple campuses across the globe.

Gunshot Detection

Video



Systems Integration

Where True Automation Happens



Further enhance situational awareness in active shooter incidents by leveraging systems integration with Video, Access Control, Mass Notification, and other emergency alerting systems.

Logos displayed include:

- fūsus
- everbridge
- Genetec
- milestone
- Genasys™
- RAVE MOBILE SAFETY
- AVIGILON
- 911 INFORM
- Qognify
- exacq® Technologies
- Lynx Systems
- CENTRAL SQUARE TECHNOLOGIES
- C-CURE 9000
- VERINT®
- DesktopAlert
- COMMEND
- Mutualink
- singlewire InformaCast
- send word now
- SIEMENS

Guardian Indoor Shooter Detection

Certified for Performance and Safety



Guardian is the
ONLY Gunshot
Detection System
to hold **ANY** and
ALL of these
certifications.



Guardian Indoor Shooter Detection

Maintenance & Training



Maintenance

- Patented handheld tester
- Used by SDS Authorized Dealer/Integrator
- Verifies sensor placement and functionality
- Tests operation of both acoustic and infrared sensors
- Annual maintenance checks (similar to fire alarm testing)
- Quiet operation, no gunshot noise
- Technician receives Pass/Fail results on mobile phone

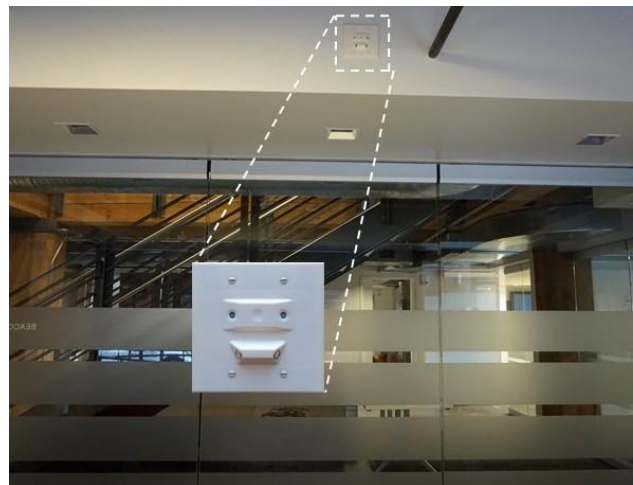
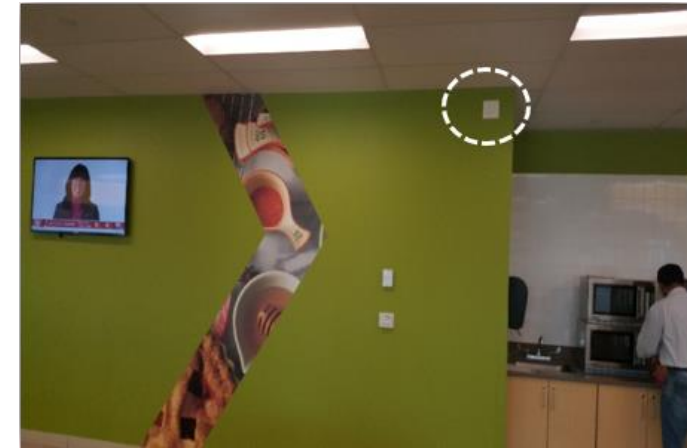
Simulation & Training

- Software training tool
- Simulates shots
- Initiates integrated actions
- Useful for testing integrations
- Use during active shooter drills
- System demonstrations



The Gunshot Sensor Installed

Low-Profile Design, Flush or Surface-Mounted



Indoor Gunshot Detection Customers

Notable Customers



Reality Check

What would happen?

What if an active shooter entered your facility today?

- What do you expect would *really* happen?
- How quickly would your employees be notified?
- How quickly would you be notified?
- How quickly would Law Enforcement be notified?
- How many humans does it rely on to respond?
- How automated is your active shooter response plan?

Visualize how gunshot detection could tie into the technologies you've already invested in.



The Guardian System

Designing a System for your Building

System Planning

Determine Wireless, Wired or Hybrid options

Examine level of desired coverage; Best practices include chokepoints such as:

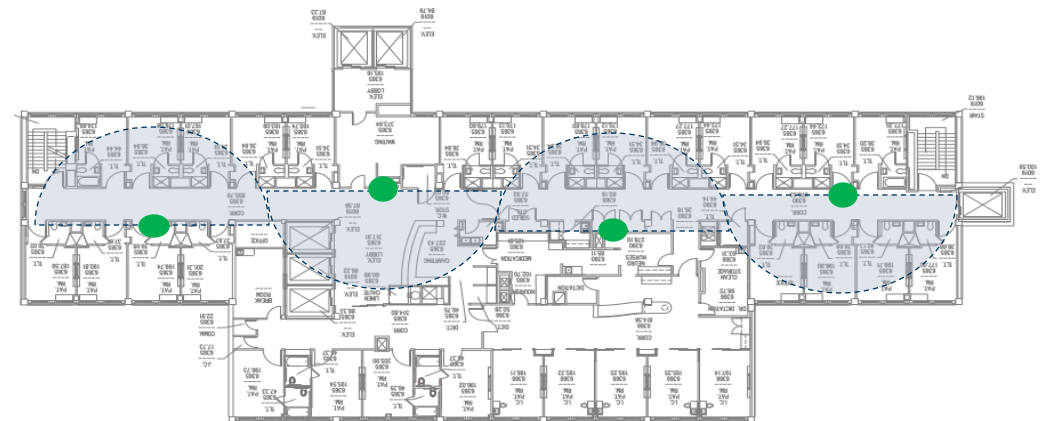
- Entrances & exits
- Elevators, stairwells
- Loading docks (interior)
- Large gathering areas
- Targeted threat areas (HR, Exec Suites, etc.)

Sensor Placements

- Design is done in conjunction with an SDS Authorized Dealer
- Sensors are laid out on scaled floor plans
- Each sensor covers 2500sf; Spaced 80 ft. apart

Other Considerations

- Integrations
- Cap-X or monthly leasing option?
- IT evaluation – Software Integration Kit



Example of sensor placements in a hallway shows areas of coverage between sensors.

The Active Shooter Threat

Risk Management Considerations

Post-Incident Litigation

- Active shooter as a "known hazard" increases Duty of Care¹
- Victim lawsuits common and cite security gaps²
- 50% rise in inquiries about mass shooting insurance in 2021³



Financial Risks

- Companies are warning investors about financial impact of gun violence/active shooter⁴
 - i.e. Cheesecake Factory, Stratus Properties, Dave & Busters report active shooter as financial risk
- Indirect costs: Negative press, damaged brand reputation, loss in stakeholder confidence, lost business opportunities
- Halt in business operations



Shooter Detection Systems

Thank You



Why do our customers tell us they chose Shooter Detection Systems?

- Proven, reliable detection technology
- History/experience in gunshot detection
- Low false alert rate
- 3rd Party testing/certifications
- Engineering Depth and Excellence



(800)-697-8400

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www.deasecuritysystems.com

Shooter Detection Systems has been featured in these and other top publications:



The Telegraph



The Washington Post

Boston Business Journal

The Boston Globe



The detector listening out for gunshots