



Protecting our Children

Creating a world where everyone has the opportunity to pursue their dreams without fear.

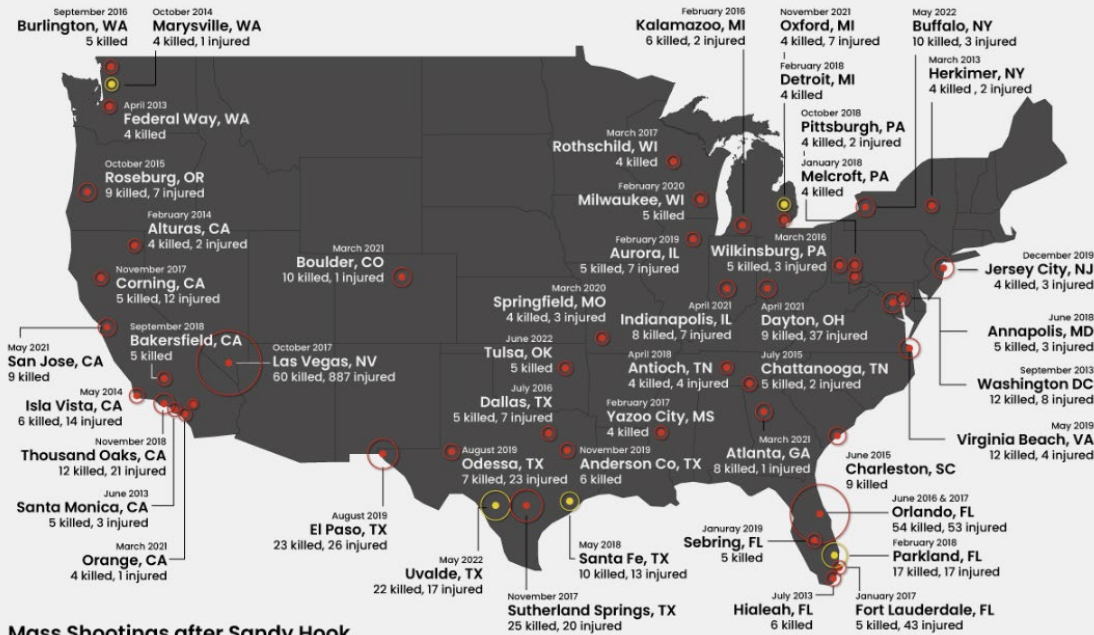
Presented by:

Christoffer Simpson - CEO

Rachel Blair - CFO

Russell Blair - CIO

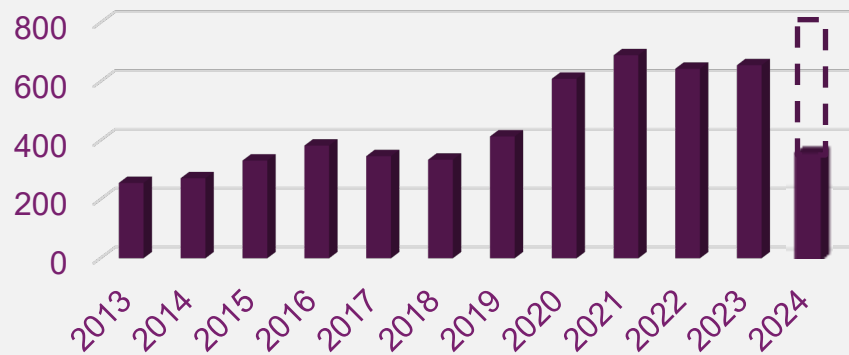




Mass Shooting Statistics

- 4+ people shot and/or killed in a single gun violence event.
- U.S. average 2+ mass shootings per day.
- Active shooter events last an average of 15 minutes.
- The number of mass shootings annually have nearly doubled since 2019. An average of 12 plus incidents occur annually.
- 20% of shootings begin outdoors and 70% of incidents occurred in a business or educational facility.
- 2/3 of the incidents end before law enforcement arrive on scene.

Number of Mass Shootings





Active Shooter Profile:

- Most events are carried out by a single shooter.
- Events typically begin at home. Conflict moves to the final scene.
- Primary demographic is male.
- 40% of shooters committed suicide on scene.

What is the typical Active Shooter profile and timeline?

Phase One: *5 minutes*

- Intruder enters a building and fires the 1st shot.
- Occupants become aware of an abnormality but often do not always identify it as a gunshot.
- After realizing there is an Active Shooter Threat, occupants contact EMS typically by personal cell phones to alert first responders.
- Due to the shooter's surprise attack, this period of time is the most lethal and incurs the most casualties.





Phase Two: *5 minutes*

- Once EMS is notified it typically takes an additional 5 minutes for local law enforcement to respond in full-force.
- Automated mass notification alerts combined with situational awareness indicators helps reduce the active timeline by up to 5 minutes

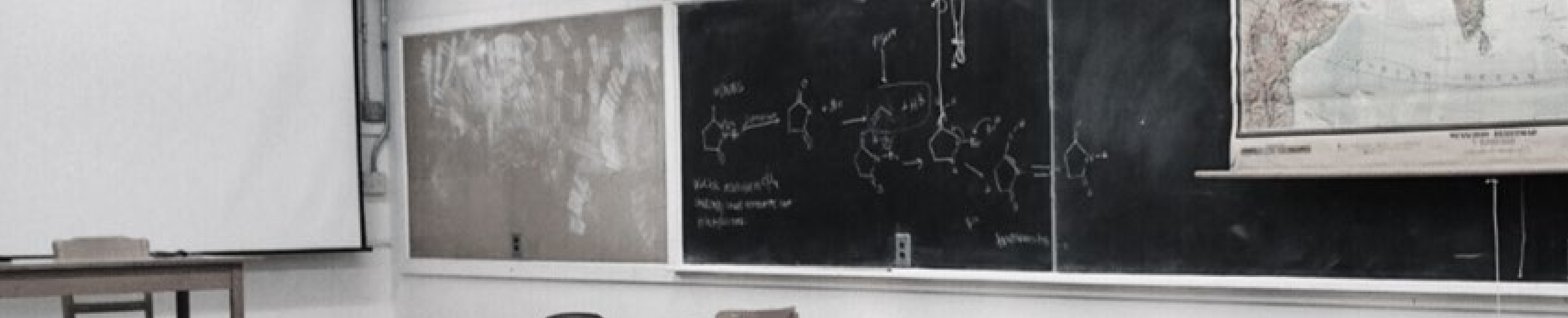
Phase Three: *5 minutes*

- Threat suppression by law enforcement

Results: Live arrest or death of assailant by law enforcement or self-inflicted wound.

Reducing this 5-minute timeline and improving emergency response eliminates phase one of the timeline and **saves lives!**





In an active shooter situation, the most important factor is a quick and accurate response.



What is Gunshot Detection Technology?

When precious minutes can make a significant difference to attack severity, this technology enables first responders to arrive on scene faster, equipped with the vital information needed to contain threats, de-escalate and mitigate casualties.

Capabilities



Gunshot detection



Hazard detection



Mass notification to occupants



Notify EMS + Law enforcement in under 5 sec

Different Technologies



Security Camera based AI weapons detection

Relies on security cameras, AI analytics and the local network to be intact and fully operational

Acoustic and IR detection

Field peripherals and sensors

Peripherals may communicate via wireless mesh network or hard-wired such as CAT 5 or 6

System integrations:

- Additional layers of security by enabling other security assets
 - Video / Security Cameras
 - Mass Notifications
 - Public Address systems
 - Onsite Alarms
 - Emergency lighting / Egress waypoints
-

Shot Detection Systems

Shooter Detection Systems

Amberbox

The Future of Gunshot Detection

In addition to adding more potential integrations, gunshot detection systems are paving the way for other multi-functional sensors to include gunshot detection technology.

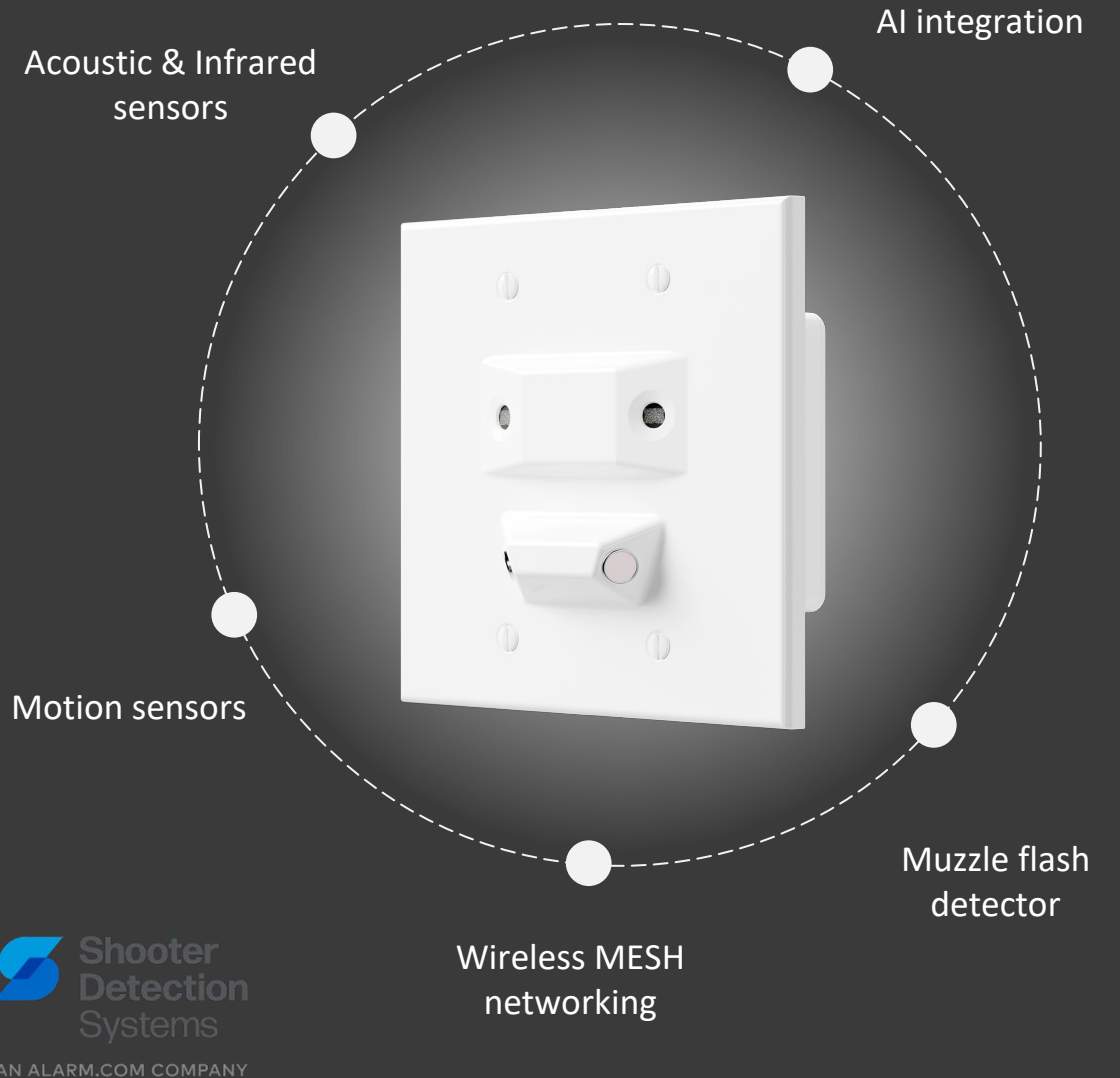
Thought Leaders

Shooter Detection Systems

Comfy

Enlighted

Siemens



**We would like
to introduce
our trusted
partner:**



AN ALARM.COM COMPANY

Jeremy Fromm

Sales Leader - Shooter Detection Systems

Bob DeProspero

East Sales - Shooter Detection Systems

James Reno

Commercial Sales Leader - Alarm.com

Jin Kim

Active Shooter Subject Matter Expert - FBI, Retired



Jin Kim

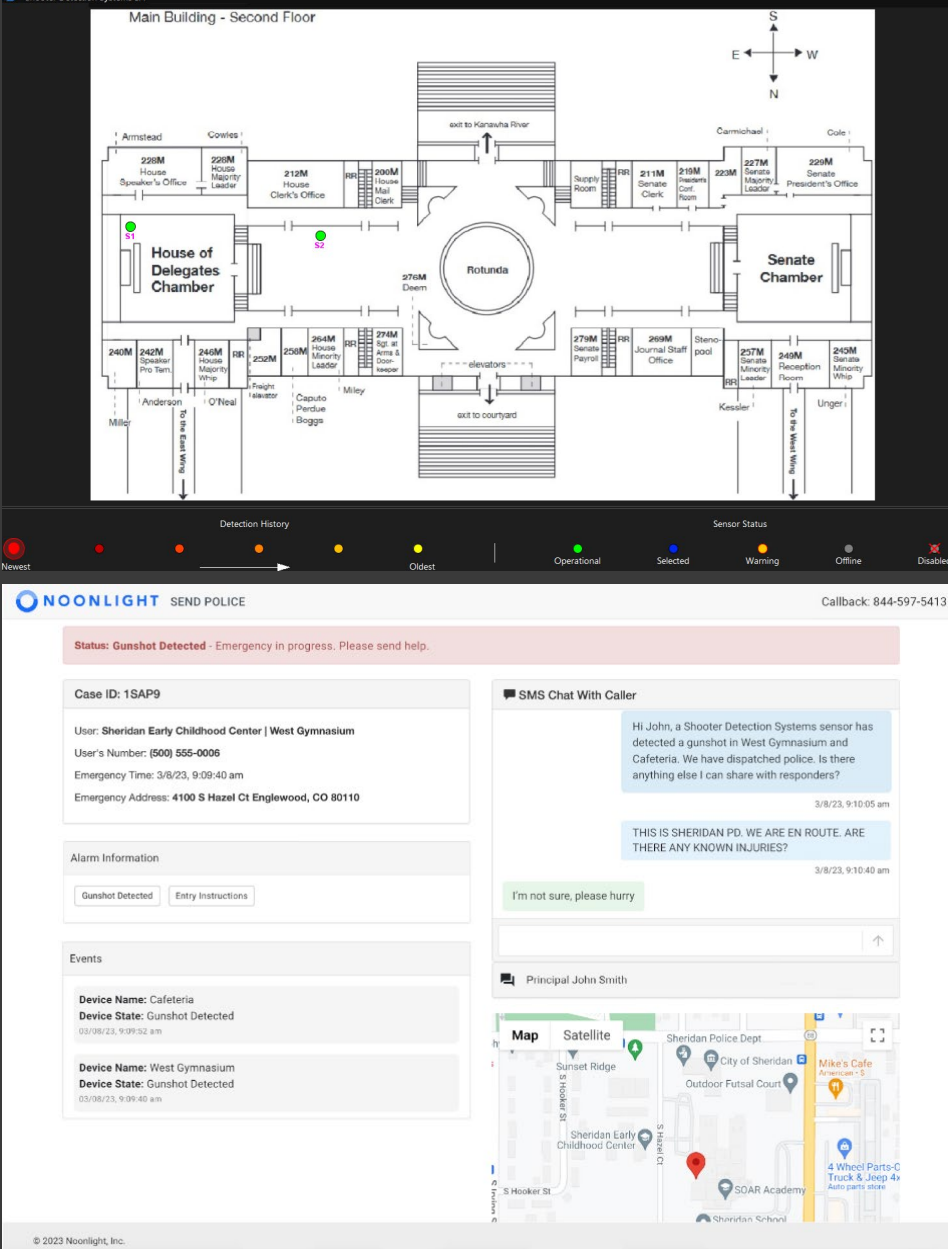
FBI (Ret.) - Active Shooter Subject Matter Expert
PerSec Academy & Advisory Group LLC - Founder & Principal

“When precious minutes can make a significant difference to attack severity, technology enables first responders to arrive on scene faster, equipped with the vital information needed to contain threats, de-escalate and mitigate casualties.”



After Columbine, FBI Agent Jin Kim became the leading authority in all active shooter substantive matters across the agency. He is a 23-year veteran of the FBI's New York Division.

Live Demo of Shooter Detection Systems



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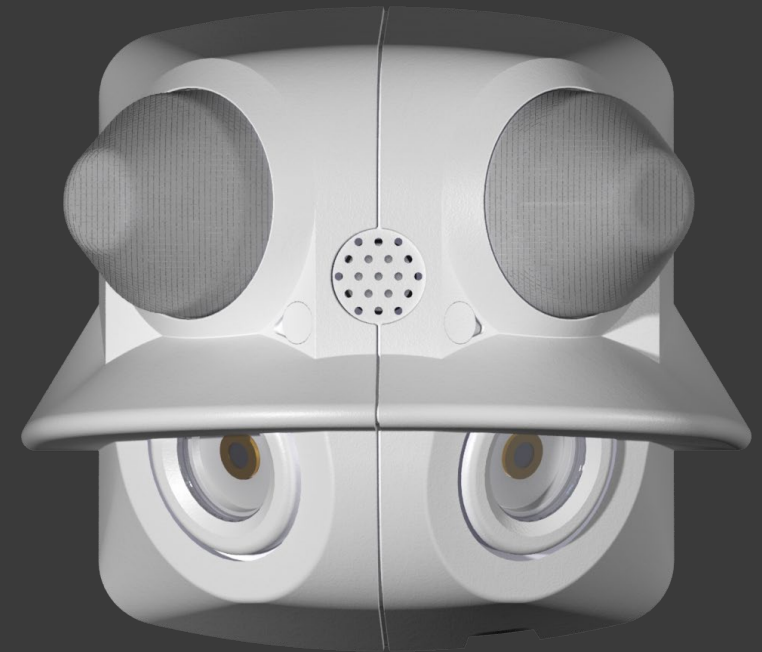
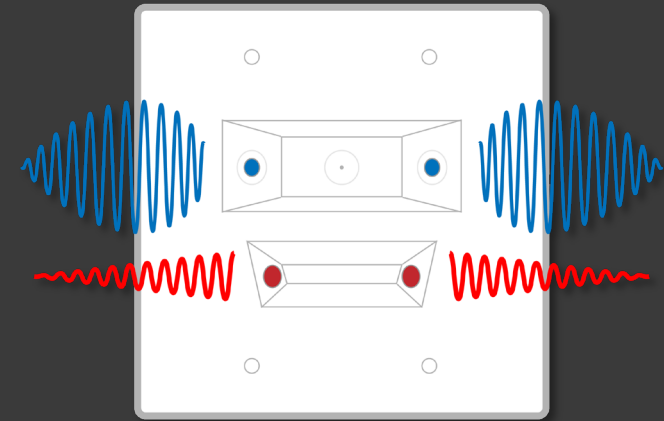
Key Information:

- There will be 2 total gunshots during the demo using blanks
 - Gunshot #1 will take place outside of the Chamber
 - Gunshot #2 will take place inside the Chamber
- * *Please use ear protection if desired*
- Some of you may receive text message notification upon shot detection.
- I will receive a phone call and SMS from a monitoring center (Noonlight) that would then contact 911
 - * no actual 911 dispatch will happen
- We will debrief after the live fire demo

SDS Sensors

Indoor & Outdoor Options

- Purpose built for reliability and accuracy
- Two microphones/acoustic sensors to hear the “bang”
- Two infrared sensors to see the muzzle flash
- Direct line of sight not required
- Detects low caliber handgun (.22 caliber) to semi-automatic and automatic assault rifles
- Detects subsonic and supersonic rounds
- Greater than 99% accuracy rate
- Fewer than 1 false alert per 5M hours of use



Automation is the Key

In a crisis...

Seconds
Matter

What happens after a gunshot is detected is critical. The response and intelligence needs to be automated

It enables the ability to make sound decisions

In active shooter situations, the human element is the weakest link

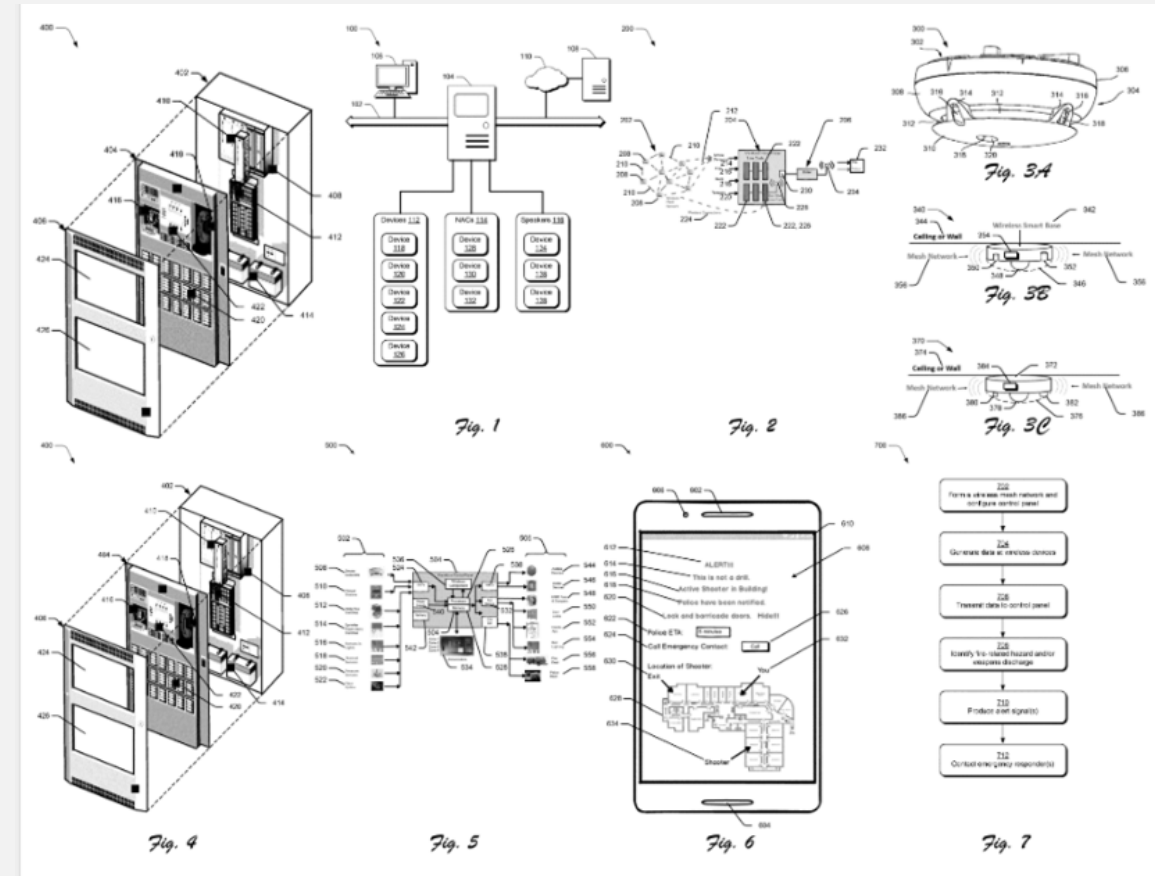
- Unlock or Lock Doors
- Automatically show live video of the shooting location
- Immediately dispatch Police, Fire, EMS
- Trigger Mass Notification for effective and actionable communication
- Share video and other intelligence directly with first responders
- Sound sirens, activate strobes, play announcements
- Auto deploy a drone with additional technology
- Deploy distractions to disable or confuse the shooter (e.g. fog, noise)

Annex



Patents

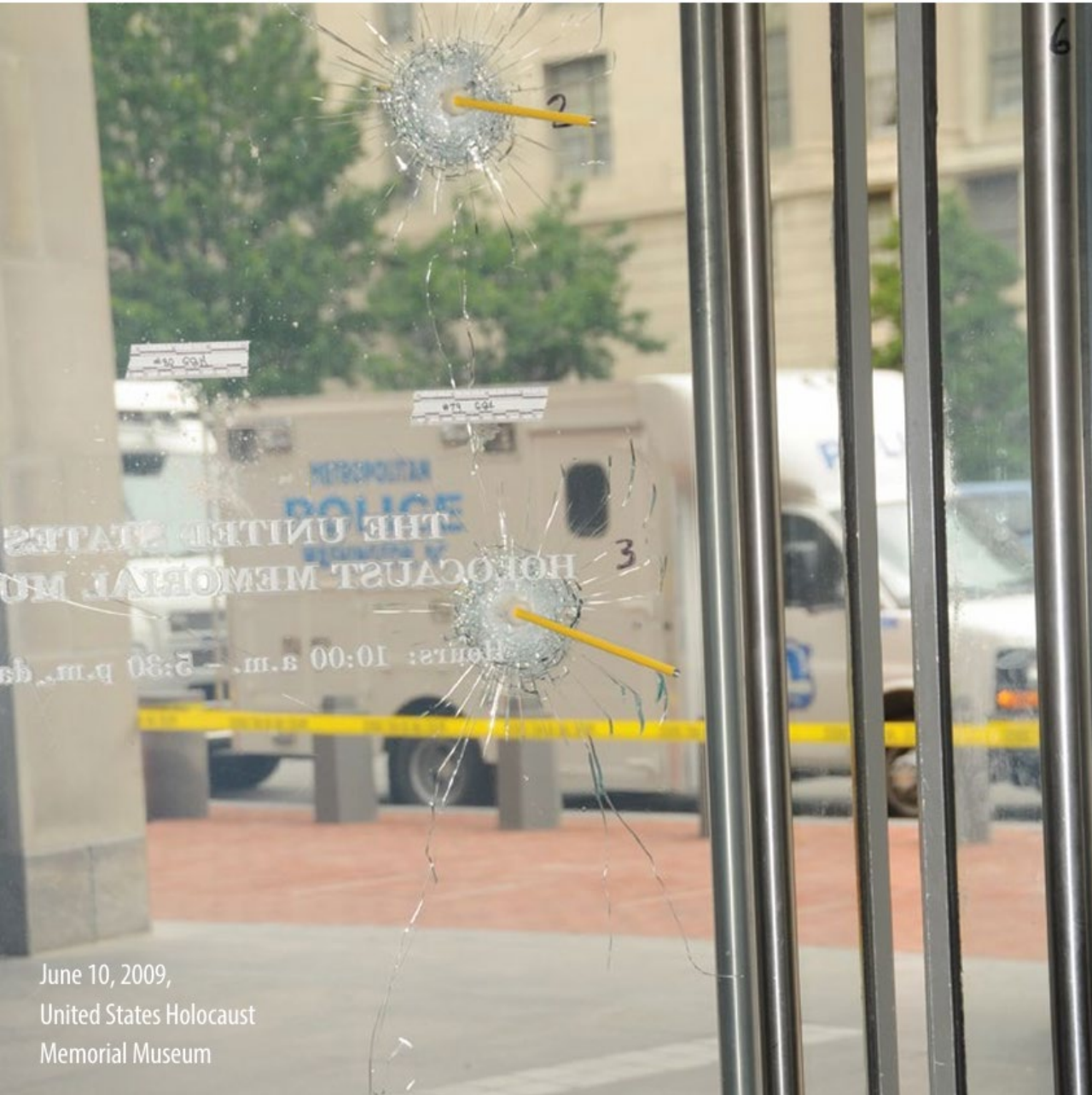
- US-10796547 & US-10862308 System and method to improve emergency response time
Simpson, Christoffer et al. 10/06/20
- US-9767661-B2 Detection and classification of abnormal sounds
Brav; Ehren J. et al. 9/19/7
- US-20210043067-A1 Detecting and Tracking of Threats in a Physical Space
Dahm; Matthew Vincent et al. 2/11/16
- US-20210043050-A1 System and method for active shooter detection and evacuation
Williams; Ernest Eugene 2/11/17
- US-20210049882-A1 Gunshot Detection System with Fire Alarm System Integration
Connell, II; Thomas Wysong et al. 2/18/18
- US-20210056821-A1 Gunshot Detection Sensors Incorporated Into Building Management Devices
Connell, II; Thomas Wysong et al. 2/25/16
- US-10928244-B2 Detection of discharge of projectile from firearm
Warren; John Myrl et al. 2/23/19
- US-20220246008-A1 Gunshot Detection Device, System and Method
Antar; David et al. 8/4/22
- US-11676624-B2 Minimizing gunshot detection false positives
Davis; Ted Michael et al. 6/13/14



- US-20240321070-A1



Gunshot Detection System with Encrypted, Wireless Transmission
Connell, II; Thomas Wysong et al. 9/26/17



Benefits of Gunshot Detection Technology?

- GSD is a life safety system. It detects a signature, the same as a Fire Alarm.
- Feeling, scenting, and looking for fire and energy changes. GSD mirrors these attributes by looking and listening for weapons discharging.
- Thereby providing automated notification to authorities within 5 seconds or less.