

Gunshot Detection and Active Shooter Countermeasure Technology

A cost-effective Solution to counter a real-world Reality

SAVING TIME, SAVES LIVES

Overview

Automatic Gunshot Lockdown System The ONLY Wireless Indoor and Outdoor System on the Market



Lockdown

Provides immediate relief by lockdown capabilities within seconds of shots fired



Notifications

Provides immediate notification to security staff and law enforcement of an active shooter situation by text, email and live video stream



GPS Location

Provides GPS location of shooter and ballistic data of weapons being used



Geo-Fencing

Provides “geo-fencing” capabilities with access control to keep the threat away

Industries We Serve



Education



Healthcare



Transportation



Energy & Mfg.



Critical Infrastructure



Public Safety



House of Worship



Government

Speed will save Life (Indoor)

1. AUTOMATICALLY notifies SOC, EOC, RTCC within seconds of shots fired. Provides ballistic data, location of shooter and live video stream.



3. We provide real time video stream of nearest camera to shooter location.



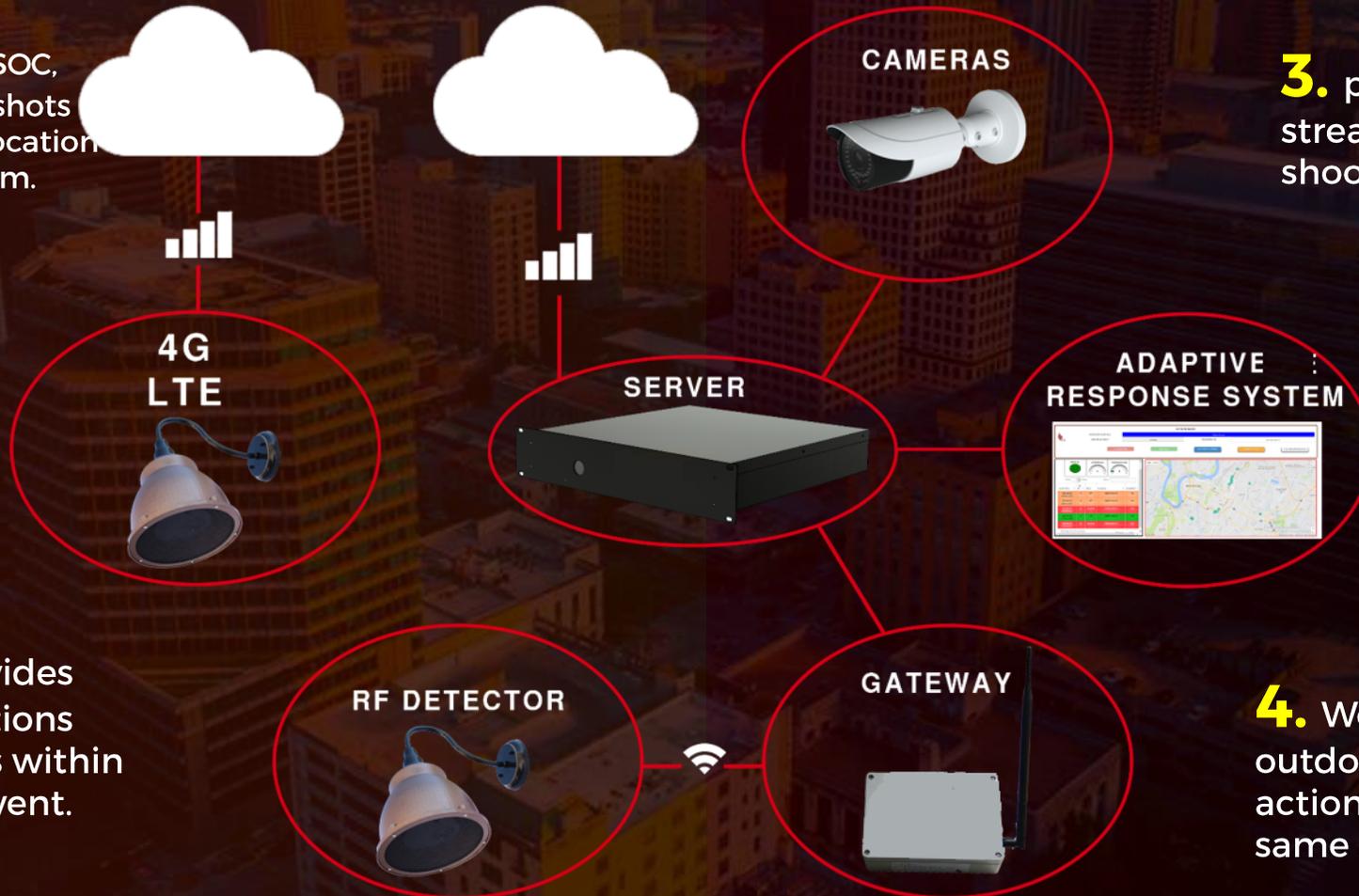
2. AUTOMATICALLY sends programmed threat notifications in the form of text messages and email within seconds of shots fired event.



4. We can lockdown soft target areas or “geo-fence” shooter based on preprogrammed adaptive response actions.

Speed will save Life OutDoor System

1. AUTOMATICALLY notifies SOC, EOC, RTCC within seconds of shots fired. Provides ballistic data, location of shooter and live video stream.



2. AUTOMATICALLY provides preprogrammed notifications text messages and emails within seconds of a shots fired event.

3. provides real time video stream of nearest camera to shooter location.

4. We can combine indoor and outdoor detection and response actions seamlessly using the same server.

Adaptive Response

Each Sensor (or group of sensors) or Panic button can be selected to activate a specific adaptive response action. These actions include:



Lockdown

Select specific doors / door groups for this response.



Notifications

Select the specific message to be used with this response. (Email and Text)



Message dissemination

Select the list of enrolled personnel that are going to receive the message.



Camera stream

Assign cameras to specific detectors.



Building location

Assign a specific building description / address for location message response.



Relay board

Assign which relays are going to be activated which can provide additional adaptive responses.



PA Message

Assign which message will be sent to the PA / Mass notification system.



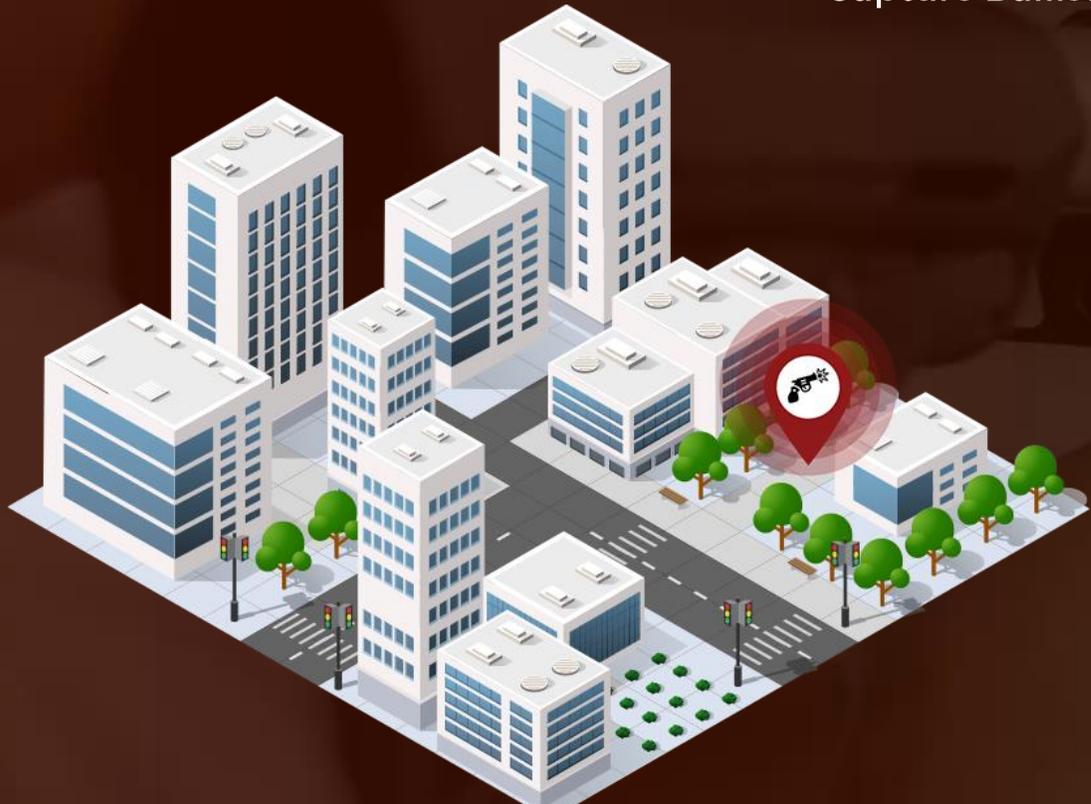
911 call and phone notification

Assign messages sent to 911 and additional phone numbers to be called.

How it Works

1. Shots Fired

Capture Ballistic Energy level threshold



How it Works

2. Validate & Report

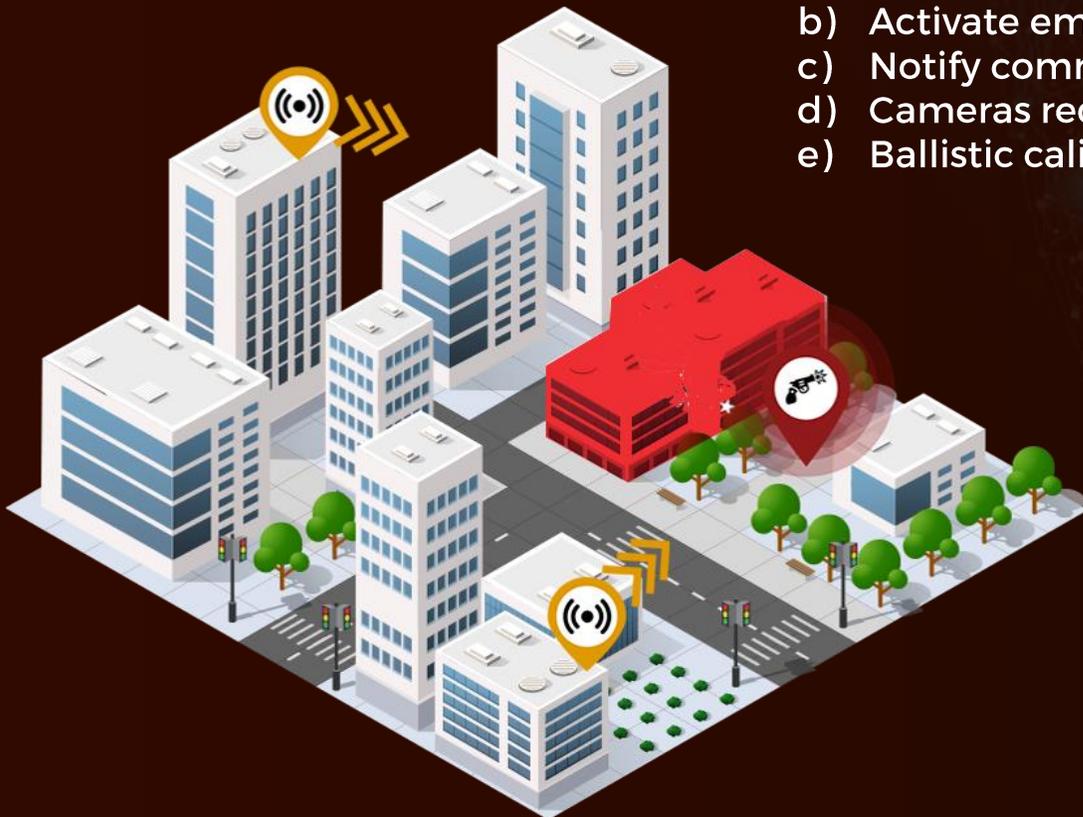
Sensors detect, validate & report time and direction of threat with waveform sample



How it Works

3. System Takes Control

- a) Lock doors
- b) Activate emergency response system
- c) Notify command center of gunfire location
- d) Cameras redirect toward shooter
- e) Ballistic caliber analysis



How it Works

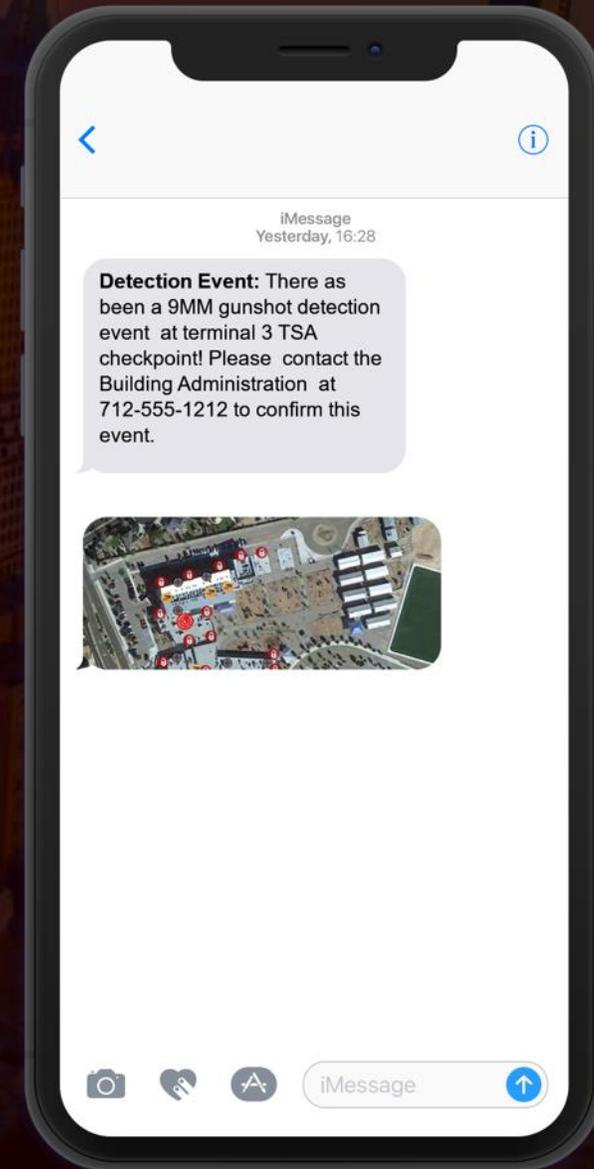
4. Back to Normal

Resume normal operation mode



Sample Message

"There as been a 9MM gunshot detection event at terminal 3 TSA checkpoint! Please contact the Building Administration at 712-555-1212 to confirm this event."



ACTION PANEL



SYSTEM STATUS

System Normal

DOOR GROUP

Door Group Name

PASSWORD

LOCKDOWN

UNLOCK

SYSTEM NORMAL

SHOTS FIRED

MAP TOOLS

NOTIFICATIONS



Show entries Search:

Event Time	Tag ID	Alert	Location	Enabled?
09/24/18 02:04:57	23	HB	Main Entry Exterior	Yes
09/24/18 02:02:56	22	HB	2nd Floor Conference	Yes
09/24/18 02:02:56	21	HB	2nd Floor Kitchens	Yes
09/24/18 02:01:54	12	HB	1st Floor Lobby	Yes
09/24/18 02:00:59	11	HB	Warehouse	Yes

Showing 1 to 5 of 932 entries (Filtered from 1,935 total entries)

Previous Next



ACTION PANEL

SYSTEM STATUS: Gunshot

DOOR GROUP:

PASSWORD:

MUTE LOCKDOWN UNLOCK SYSTEM NORMAL SHOTS FIRED MAP TOOLS

NOTIFICATIONS

Battery Life:

Self Test Failures:

Total Detectors Active:

Show entries Search:

Event Time	Tag ID	Alert	Location	Enabled?
09/24/18 09:25:23	11	Gunshot	Warehouse	Yes
09/24/18 02:04:57	23	HB	Main Entry Exterior	Yes
09/24/18 02:03:56	22	HB	2nd Floor Conference	Yes
09/24/18 02:02:56	21	HB	2nd Floor Kitchen	Yes
09/24/18 02:01:54	12	HB	1st Floor Lobby	Yes

Showing 1 to 5 of 932 entries (filtered from 1,935 total entries) Previous Next

Map Satellite

Key Features

- ✓ Full facility lockdown capability fully automated if gunfire is detected (Preprogrammed adaptive response actions) Exit/Egress is always possible.
- ✓ Integrates with most public address systems and wide area warning systems to alert building occupants of potential threats.
- ✓ Easy to install with capability to integrate the entire building security under one umbrella that includes: fire, burglar, CCTV, access control, chemical and biological sensors.
- ✓ LIVE video streaming is accessible via interface at all times.
- ✓ Real time data dissemination.
- ✓ Provides critical information to law enforcement and building officials enabling immediate and appropriate actions for optimal outcomes.
- ✓ Provide real time ballistic analysis.
- ✓ Provides facility card access control to deny access to those who do not belong.
- ✓ Mostly wireless, scalable and easy to install.
- ✓ Able to control multiple buildings utilizing the adaptive response model.

System Components



Server

External 120VAC, 60Hz, Single Phase Input (NEMA 5-15P)
24H UPS option.
Host Firmware, Web Server
IP Controlled Relay Board
Dials Programmed Number(s) & Transmits Recorded Messages
HTTP protocol over TCP/IP & POTS
Linux.
Can integrate with :
Access Control, Video Surveillance, Mass Notification systems.
Support REST API



Gateway

12 to 15 Watts, Power Over Ethernet - POE
Wireless RF to Sensor / Cat5-6e to System Control Unit, standard RJ45 connectors.
433 MHz - 10 Channel
500 feet indoor -10,560 FT Outdoor
HTTP protocol over TCP/IP using REST
UL94 - HB, designed to meet IP 66 & NEMA 4, 4X, 6, 6P, 12 & 13 7.87"L x 4.72"W x 3.56"H with detached antenna.



Indoor Energy Sensor

Gunshot Detection Technology developed by the Department of Energy.
Algorithm analyzes Energy and Waveform to eliminate false alarms.
Wireless Range: Over 500 ft
Indoor Ballistic Detection Range
100ft radius 31,400SF
433 MHz wireless frequency
7 year battery life
Requires only one node per coverage area.



Outdoor Sensor

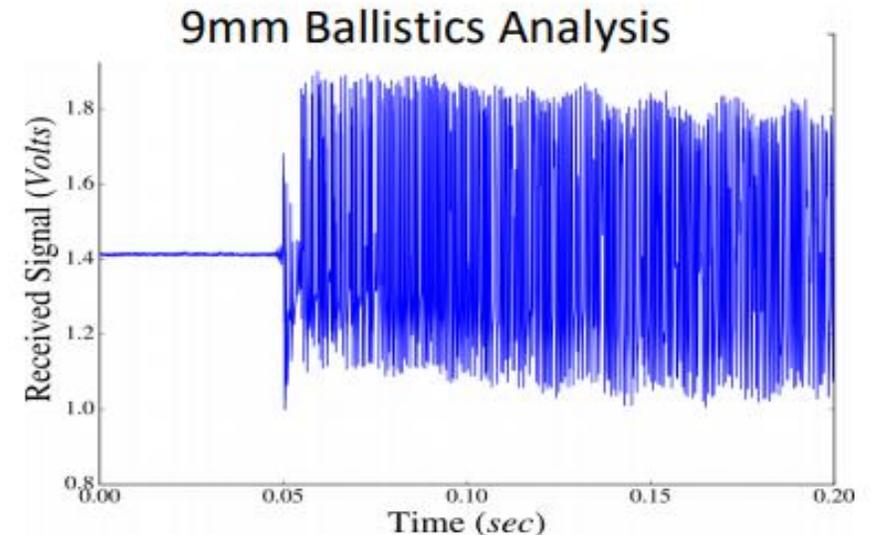
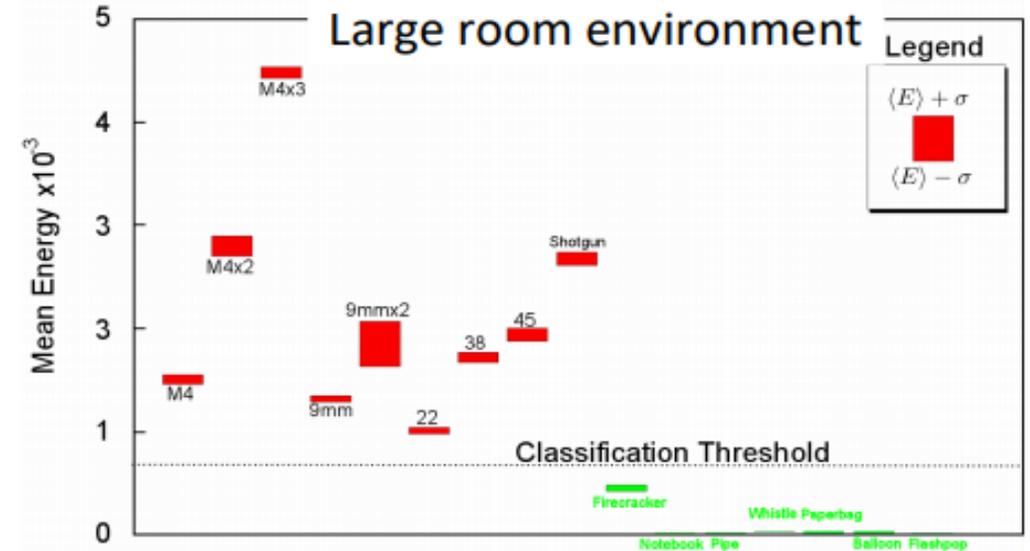
Operates on the Industrial IoT LTE platform.
No infrastructure required can mount almost anywhere.
Uses advanced algorithm to eliminate false alarms
Can operate on our 433MHz wireless band with up to 2 miles RF range.(line of sight)
150 feet radius detection range
7 year battery life
Weatherproof IP66

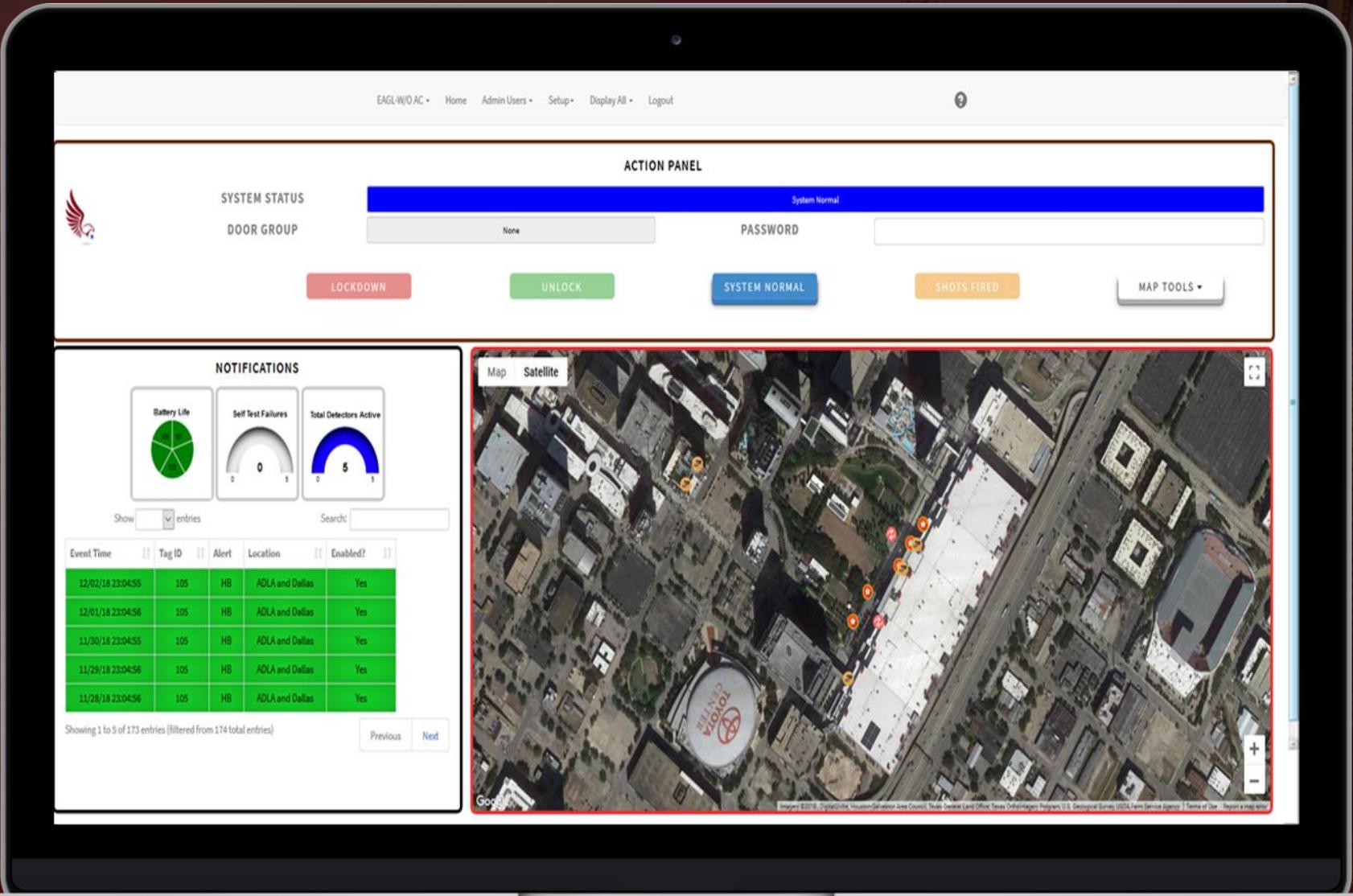
Energy Sensor

Energy Sensor is the latest detection technology.”

Our energy sensor was developed by the Department of Energy in response to the Sandy Hook tragedy. This patented gunshot detection technology is like no other shot detection technology in the industry.

It calculates energy level and waveform analysis to determine and validate firearm discharge events and ballistic data.





ACTION PANEL



SYSTEM STATUS



DOOR GROUP

None

PASSWORD

LOCKDOWN

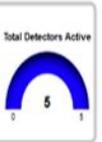
UNLOCK

SYSTEM NORMAL

SHOTS FIRED

MAP TOOLS

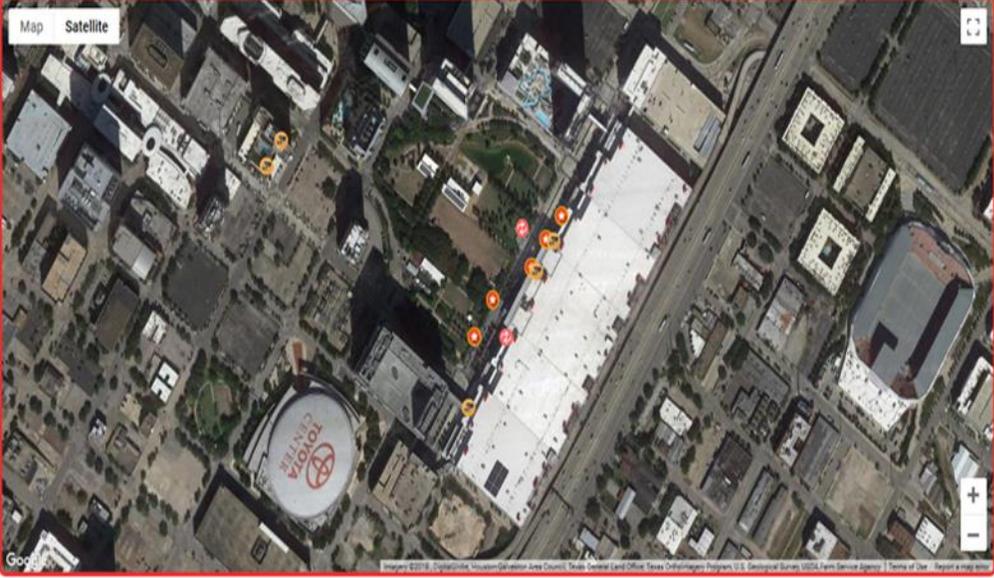
NOTIFICATIONS



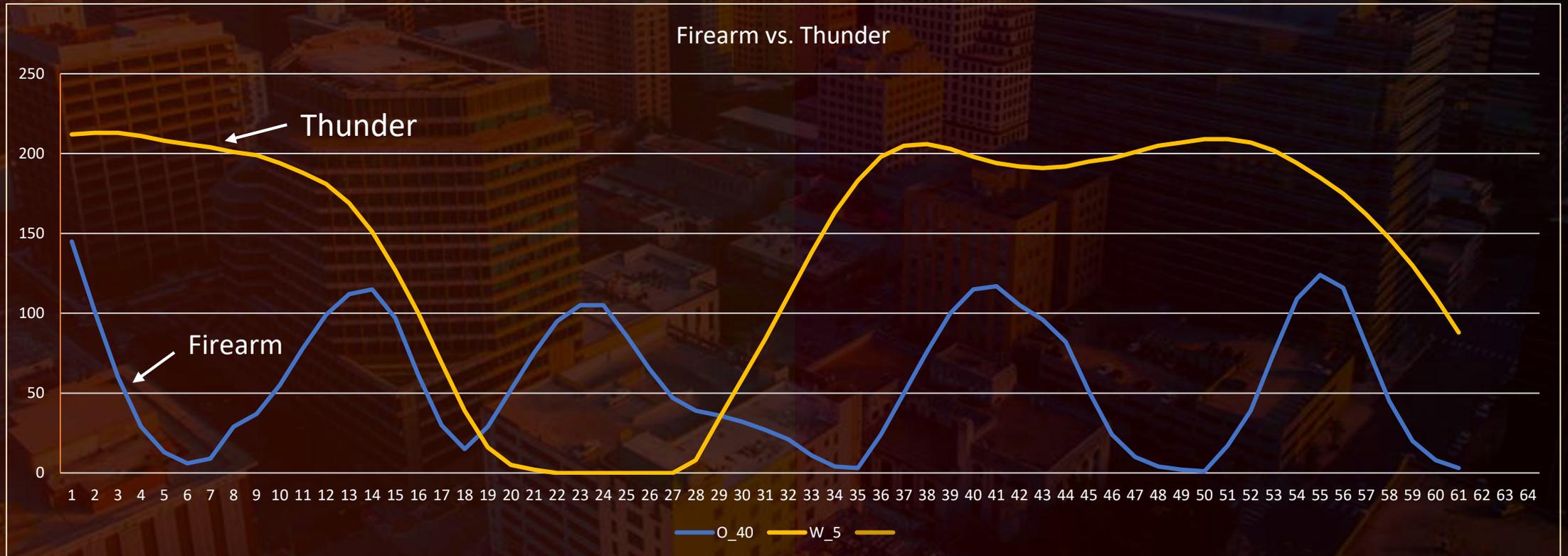
Show 5 entries Search:

Event Time	Tag ID	Alert	Location	Enabled?
12/02/18 23:04:55	105	HB	ADLA and Dallas	Yes
12/01/18 23:04:56	105	HB	ADLA and Dallas	Yes
11/30/18 23:04:55	105	HB	ADLA and Dallas	Yes
11/29/18 23:04:56	105	HB	ADLA and Dallas	Yes
11/28/18 23:04:56	105	HB	ADLA and Dallas	Yes

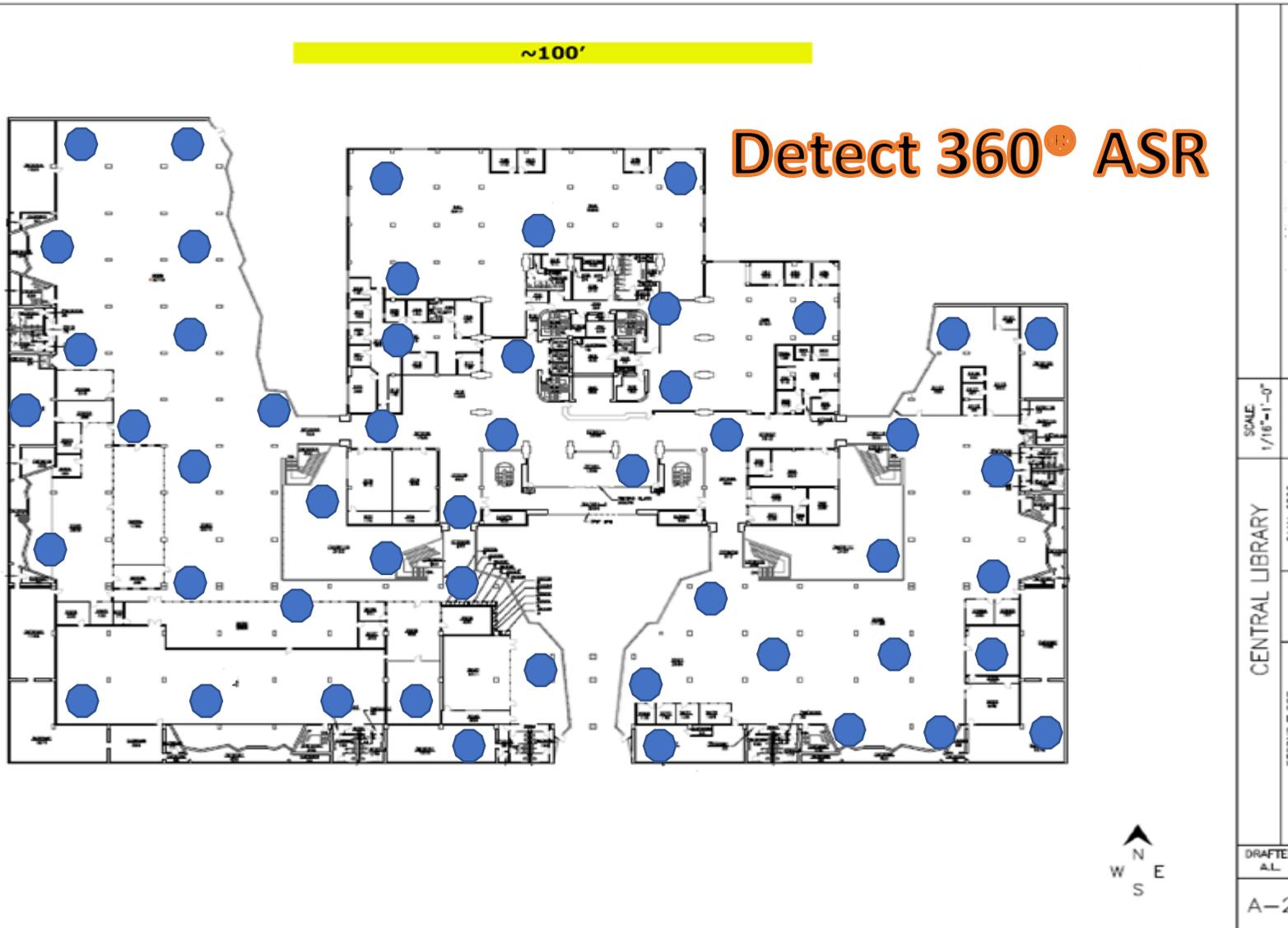
Showing 1 to 5 of 173 entries (filtered from 174 total entries) Previous Next



Waveform Algorithm (example)



Gunshot Detection Competitor Comparisons



GSL Comparisons

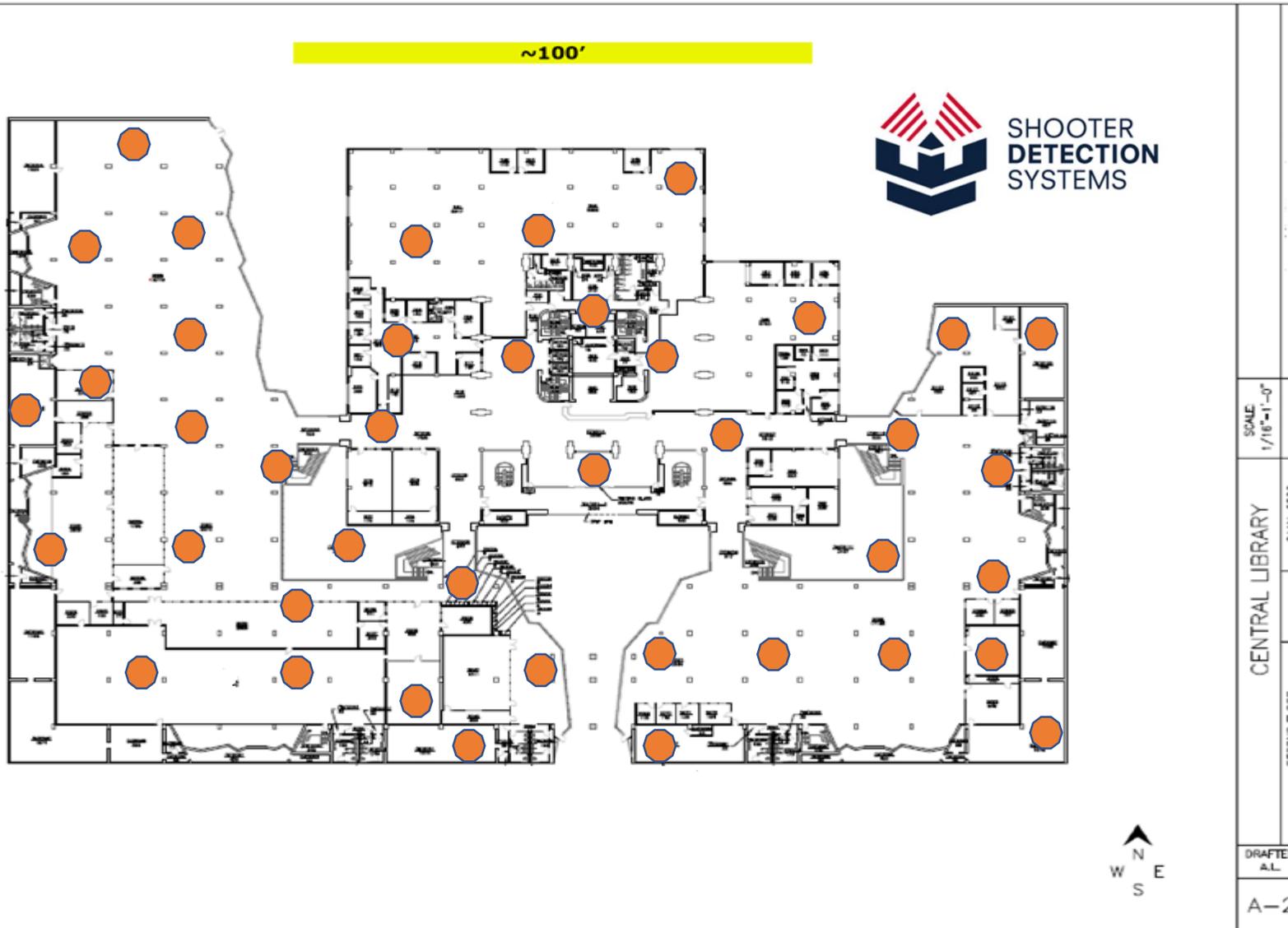
- Product #A ● (371) Sensors
Cost \$770,000

- Product #B

- Product #C

- Our Solution

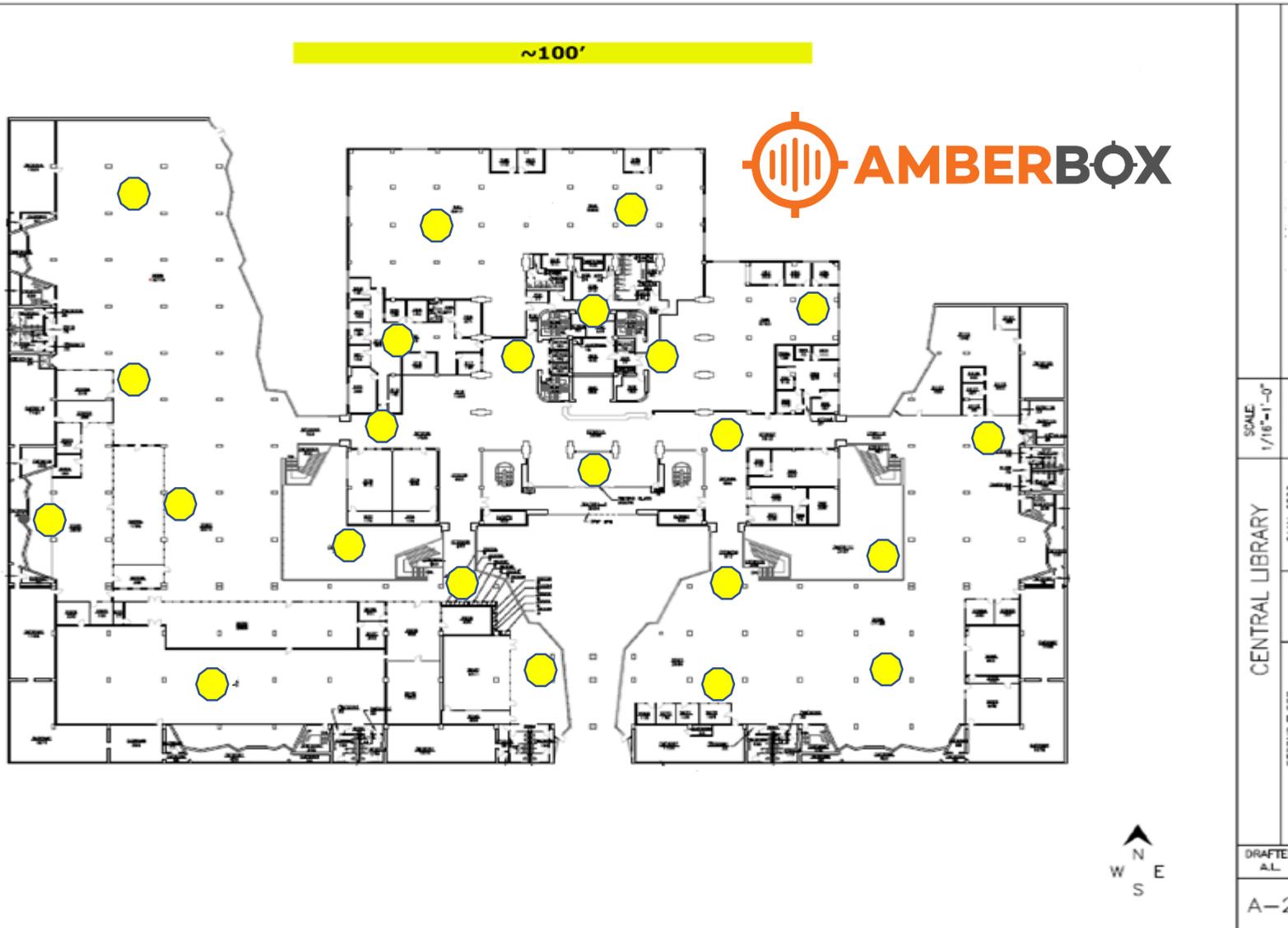
Gunshot Detection Competitor Comparisons



GSL Comparisons

- Product #A
(371) Sensors
- Product #B ●
(242) Sensors
Cost \$550,000
- Product #C
- Our Solution

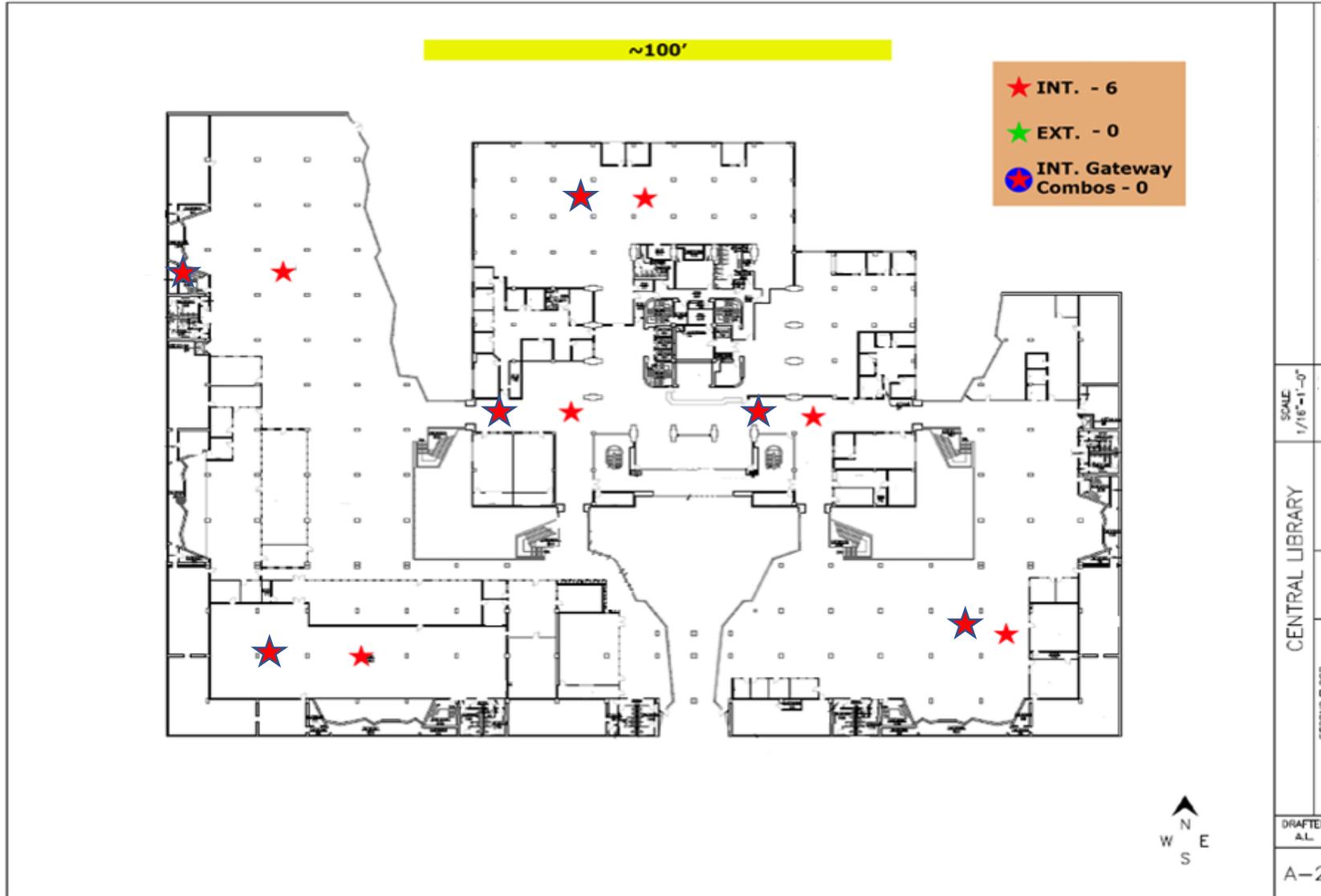
Gunshot Detection Competitor Comparisons



GSL Comparisons

- Product #A (371) Sensors
 - Product #B (242) Sensors
 - Product #C (98) Sensors ●
- Cost \$388,000
- Our Solution

Gunshot Detection Competitor Comparisons



GSL Comparisons

- Product #A
(371) Sensors
- Product #B
(242) Sensors
- Product #C
(98) Sensors
- **Our Solution** ★
(54) Sensors
Cost \$154,750

Comprehensive integrated Solution

Functionality	US	ShooterDetectSystems
Detection Range	100 feet	40 feet
Can detect .22	YES	NO
Wireless	YES	NO
Can interface with any PA system with no additional cost	YES	NO
Integrate with Access control systems to control door groups	YES	NO
Unlimited message files for PA and Voip	YES	NO
Panic button option	YES	NO
Daily devices self-test and HBeat	YES	NO
Adaptive response per device *access control * camera integration * Unlimited PA system control * Unlimited text and Email messages * Unlimited relay support (built in)	YES	NO
Integrated dialer for 911 calls	YES	NO
Message portal	YES	NO
Ability to program the sensors remotely for different scenarios	YES	NO
Scalable	YES	NO
VOIP interface	YES	NO
Health indicators	YES	NO
Indoor and outdoor	YES	NO
Detection Data collection for advance analytics	YES	NO
Ballistic module for weapon caliber identification for indoor and outdoor	YES	NO
Managing unlimited contact lists	YES	NO
Text to speech Engine	YES	NO
Able to controls multiple buildings with multiple scenarios	YES	NO
Open REST API protocol	YES	NO



CALL TODAY

847-728-8500

iPTT.us

Nationwide Wireless PTT

**Providing Enhanced Solutions
for the Wireless Industry**