Databuoy®

11 SERIES ENERGY

Shotpoint® Acoustic Localization

In an active shooter event, response time equals lives.

Shotpoint® is the system you can trust to Know When It Counts®

Why Shot Detection - *The Case for Acoustic Monitoring*

A real-time gunshot detection and localization system, like Shotpoint, automates the emergency response process instantly, significantly reduces response times, and saves lives in the process.

Preventing or reducing the scale of an active shooter event through the implementation of a gunshot detection system protects lives, keeping associates and customers safe. Shotpoint provides other benefits including:

- increases customer confidence
- actively addresses duty of care
- reduces or eliminates the financial cost of gun violence

Why Databuoy

The leadership team at Databuoy developed its expertise while doing research sponsored by the U.S. Defense Advanced Research Projects Agency (DARPA).

Over a decade, we developed protocols and technologies for machine-based listening and signal processing that remain in use today in America's defense.

Databuoy is an industry leader in research and innovation, and holds several patents that make Shotpoint and unique and superior solution. Our acoustic-based sensor technology can listen for and trigger on life safety events and gunshots, making this the first step to a safer environment.

Unlike cameras, acoustic sensor networks can compute an accurate location of the source of the sound using the angle-of-arrival (AoA) and time-of-arrival (ToA) data obtained from a network of sensors that all detect the signal. An acoustic sensor network can instantly send an emergency alert to responders. Acoustic coverage can be broad, the alerts are immediate with precise localization.

Cameras alone do not make us safe. Cameras integrated with acoustic localization is the solution.

SHOTPOINT® PRODUCT HIGHLIGHTS

- Reports in < 1 sec
- Works indoors and outdoors
- Zero false alarms
- Precise shooter localization
- Weapon type classifier
- Rapid fire indicator
- 165 ft (50m) Sensor spacing
- Locates rifle trajectories
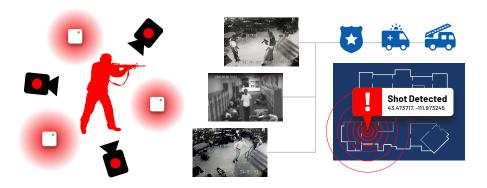- Non-shot acoustic analytics
- Integrates with any VMS

Indoor Systems

Outdoor Systems

This Is What We Do!

In less than 1 second, Shotpoint can deliver localized Video before the shooter is out of frame. It can send safety alerts, and notify first responders with digital floorplans and accurate data of the shooter, including weapon caliber. And Shotpoint is completely automated, so we can activate lockdown protocols.

Shot Detected
43.473717, -111.973245

How We Do It - *Turning Information into Intelligence*

With Shotpoint, the sensor mesh and network provides advanced capabilities to improve any camera network and maximize the efforts of security personnel. Shotpoint can quickly and accurately provide switching commands to video systems, automated lockdown systems, third-party text/email notification systems, and security monitoring stations. Whether you communicate via Ethernet, Wi-Fi, or hardwired networks, Shotpoint provides a valuable layer of control and intelligence to any security system

The Shotpoint sensor uses a patented four-microphone array that is superior to any percussion detection system in the field today. Each sensor shares its data in a meshwork that analyzes multiple data points in seconds. That means we locate a shooter within feet, within seconds.

Example Network Overview

Shotpoint Reachback

Camera System Interface

Shotpoint Application
KWIC®

SMS & 3rd Party Applications

PoE Switch

PoE Ext.

PoE Ext.

PoE Switch

Shotpoint Reachback

Video Management