SplitSec.AI

Improve Response.
Reduce Liability. Stand Out.

How SplitSec.AI helps security firms detect gunshots faster and coordinate response.

Executive Summary

Security companies operate where uncertainty, time pressure, and liability intersect. Clients expect preparedness, faster awareness, and disciplined response when incidents occur.

Gunfire incidents are especially challenging. In the first seconds after a loud bang, teams often lack confirmation: what happened, where it came from, and whether it was real. That uncertainty can delay escalation and coordinated action.

SplitSec AI is a smartphone-based, privacy-first gunshot detection solution designed for those first moments. It does not replace officers, training, or procedures. It adds a shared signal that can reduce uncertainty, accelerate awareness, and support safer, more coordinated response across a site without new hardware.

1. The Challenge Facing Security Companies Today

1.1 Uncertainty in the First Moments

In many active shooter and gunfire incidents, the delay is not caused by a lack of personnel. It is caused by uncertainty. Officers may hear a sound but are unsure whether it is a gunshot, fireworks, construction noise, or something else. That hesitation can delay escalation and response.

Security companies are often judged, by clients, regulators, media, and attorneys, not just on outcomes but on decisions made in those early moments. What did officers know? When did they act? How quickly was the situation recognized?

1.2 Distributed Posts, Limited Visibility

Many client sites are covered by multiple posts, often with limited line of sight or coordination. A sound heard at one post may not be heard at another. Without a shared signal, officers rely on radio calls, subjective judgment, or delayed confirmation.

This is particularly challenging in large campuses, multi-building properties, event venues, or mixed-use environments.

1.3 Pressure on Margins and Differentiation

Most contract security firms operate under pricing pressure, especially for unarmed services. Clients frequently compare hourly rates and expect more value without corresponding cost increases. Security firms need ways to differentiate offerings, justify renewals, and demonstrate improvement over time.

2. What SplitSec AI Is and What It Is Not

SplitSec AI is a mobile application that detects gunshots in real time using on-device machine learning. Detection occurs entirely on the smartphone. No raw audio is recorded or uploaded.

SplitSec detection to action workflow for guard teams (illustrative)

SplitSec AI is not a replacement for officers, firearms, training, or procedures. It does not make decisions or direct responses. Instead, it provides an additional signal that helps officers and supervisors recognize potential gunfire events more quickly and respond with greater confidence.

As with any detection system, false positives must be managed operationally. SplitSec AI is designed to keep false alerts infrequent and to support clear escalation protocols when alerts occur.

3. Operational Capabilities Supporting Professional Security Teams

SplitSec AI is designed to meet the operational realities of contract security firms managing multiple client sites with varying layouts, staffing models, and risk profiles. Key capabilities include:

3.1 Detection Models Trained at Scale

SplitSec AI's machine learning models are trained on tens of thousands of labeled sound samples, including both gunfire and common non-gunfire events. This training supports reliable detection in real-world security environments while helping limit unnecessary alerts.

3.2 On-device processing for privacy and reliability

All sound analysis and detection take place on the device itself. Connectivity is required to deliver alerts to other users or systems. No raw audio is recorded or uploaded, reducing privacy concerns and minimizing dependency on network connectivity.

3.3 Optional Supervisor and Command Dashboard

An optional dashboard allows authorized supervisors to view alerts, timelines, and activity across a client site or portfolio of sites. This supports coordinated response, operational oversight, and post-incident documentation.

3.4 Localization support across posts

When multiple devices are present, SplitSec AI can support approximate localization of

detected gunfire, helping supervisors understand where an incident may have occurred relative to officer posts. Accuracy varies by environment and coverage.

These capabilities are intended to complement trained security officers and established procedures, providing additional situational awareness while supporting accountability and defensibility after incidents.

4. How SplitSec AI Supports Security Operations

4.1 Faster Recognition and Shared Awareness

When a gunshot occurs, SplitSec AI can alert all officers on a client site simultaneously. This reduces reliance on a single officer's judgment and creates shared situational awareness across posts. Instead of asking whether a sound was real, officers can move more quickly into established response procedures.

4.2 Supporting Safer and More Effective Operations

SplitSec AI helps staff take additional precautions when investigating sounds in person. This is especially important for unarmed officers and supervisors coordinating responses across a site.

4.3 Site-Wide Coordination

Because SplitSec AI operates on smartphones, it can scale across a client site without new infrastructure. Officers at different posts receive alerts at the same time, enabling more coordinated communication and escalation.

5. Value Across Armed and Unarmed Security Models

Security firms typically deliver a mix of armed and unarmed services. SplitSec AI supports both, but the value shows up differently depending on the posture and expectations at each post.

5.1 Unarmed Security Officers

Unarmed officers are often the most common and cost-effective staffing model, but they can face the highest personal risk when gunfire occurs unexpectedly.

SplitSec AI provides faster detection and confirmation of likely gunfire, reducing the "Is that real?" hesitation that can delay action. By improving early awareness, it can also reduce the risk faced by unarmed officers when physically investigating sounds without context. At the same time, it supports faster escalation to supervisors and emergency services by creating shared awareness across posts.

Operationally, SplitSec can extend awareness across posts without adding headcount. For security firms, this can materially improve the value proposition of unarmed services, especially in environments where clients want better safety outcomes without the added cost, policy complexity, or liability profile that sometimes comes with armed staffing.

5.2 Armed Security Officers

For armed officers, SplitSec AI supports a more disciplined, informed response in the first moments of an incident. It reduces surprise and uncertainty by providing a consistent alert signal across officers and supervisors, rather than relying on a single individual's judgment.

It also supports clearer documentation of when an incident was recognized and how awareness propagated across the team, useful for internal review and client reporting. Finally, by reducing misinterpretation and confusion in the opening seconds, it can help lower the risk of premature or unnecessary escalation, an important factor in high-liability environments.

6. Business Value for Security Companies

6.1 Differentiation in Competitive Bids

SplitSec AI helps security firms show measurable, modern safety capability without installing new infrastructure. That's compelling in RFPs, renewals, and rebids, especially when buyers ask how you will shorten recognition time and coordinate response across posts.

6.2 Client-ready language for proposals & RFPs

SplitSec-enabled posts add a smartphone-based early-warning layer for gunfire. Detection runs on-device (no raw audio recorded or uploaded) and alerts can be shared across officers and supervisors, supporting faster escalation and more consistent response.

6.3 Portfolio-wide consistency

Because SplitSec AI runs on smartphones, it can be deployed consistently across a portfolio, even when sites differ in layout, staffing, or existing security technology. This reduces "site-by-site one-offs" and supports a standardized operating model.

6.4 Reduced contract and liability exposure

By improving early recognition and shared awareness, SplitSec AI can reduce exposure to post-incident claims that warning signs were missed or that action was delayed. It also supports clearer incident timelines for internal review and client reporting.

7. Deployment and Privacy Considerations

SplitSec AI requires no fixed hardware installation. Officers use standard smartphones. Sound analysis occurs on the device; no raw audio is recorded or uploaded. This privacy-first design helps address client concerns in sensitive environments such as schools, workplaces, and public venues.

Conclusion

Security companies operate at the intersection of safety, responsibility, and trust. SplitSec AI is built to support officers and supervisors in the moments when clarity matters most.

By reducing uncertainty, improving shared awareness, and supporting disciplined response, SplitSec AI strengthens operational performance and helps firms differentiate in competitive bids, without replacing officers, changing training models, or adding new infrastructure.

Bibliography

1. Federal Bureau of Investigation (FBI). *Active Shooter Incidents in the United States, 2023*. U.S. Department of Justice, 2024.
2. U.S. Department of Homeland Security (DHS). *Active Shooter: How to Respond*. 2008.
3. National Fire Protection Association (NFPA). *NFPA 3000: Standard for an Active Shooter/Hostile Event Response (ASHER) Program*. 2021 edition.
4. National Institute of Justice (NIJ). *Implementing Gunshot Detection Technology: Recommendations for Law Enforcement and Municipal Partners*. U.S. Department of Justice, 2019.
5. Urban Institute. *Implementing Gunshot Detection Technology*. (NIJ-supported evaluation/recommendations), 2019.