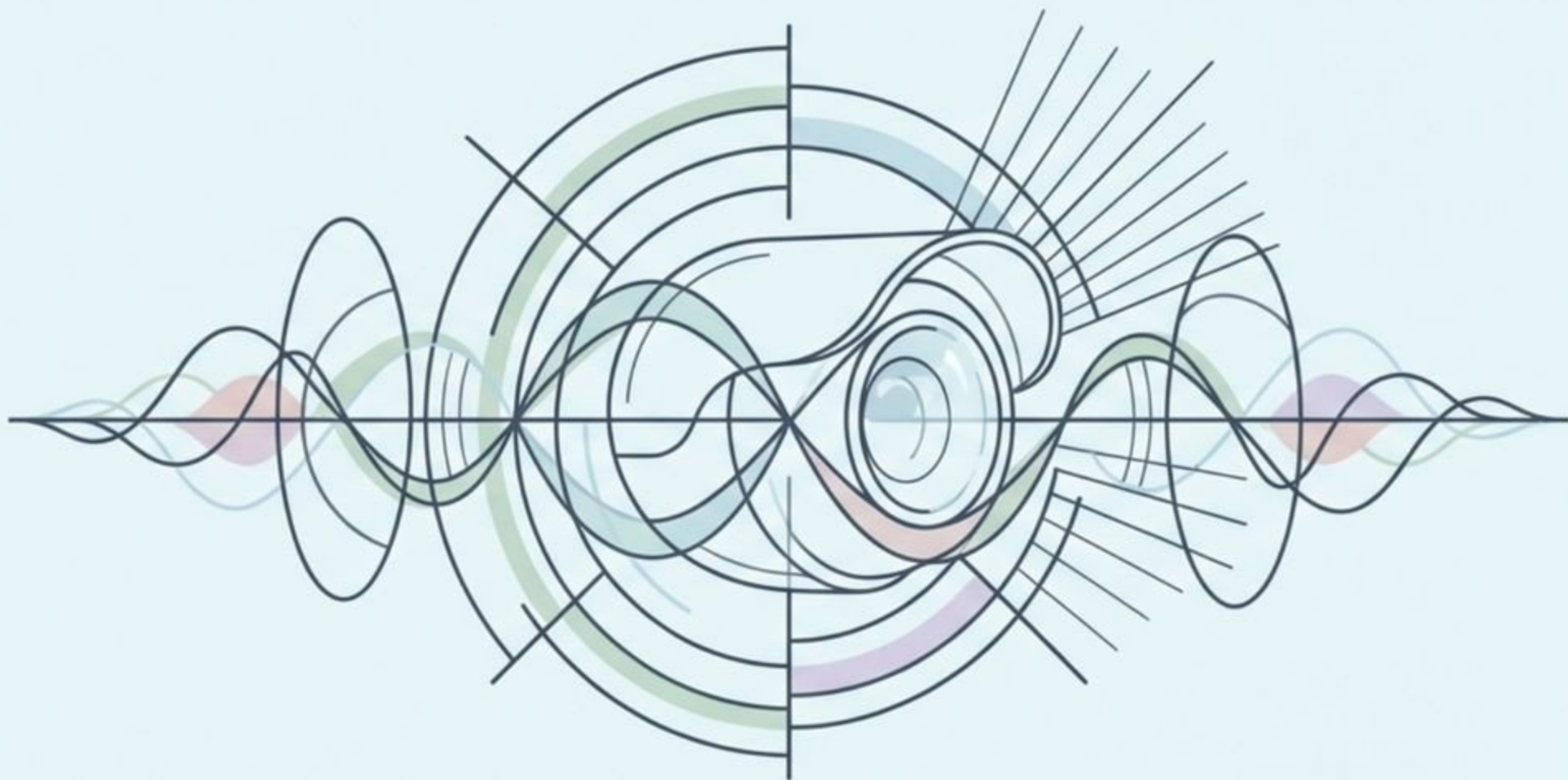


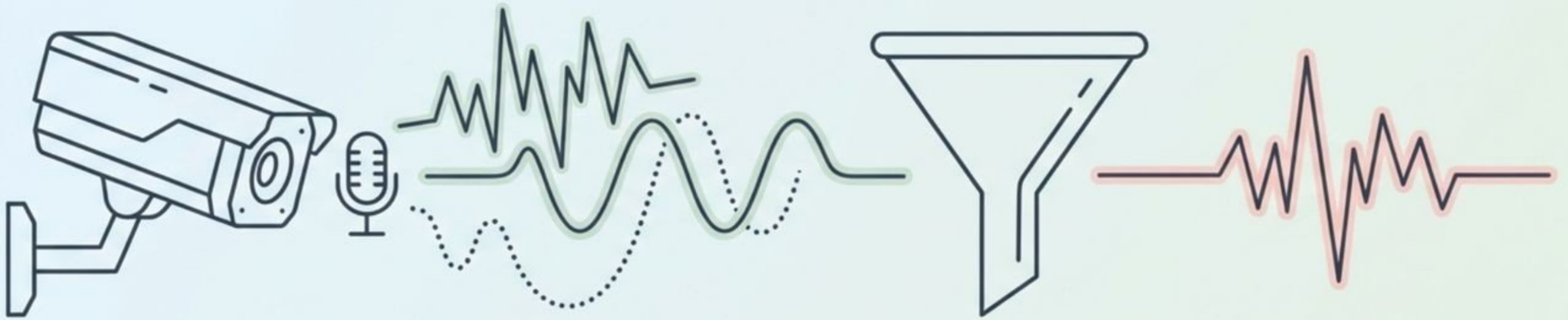


Gunshot Detection

Intelligent AI-Based Audio Analytics for System Integrators

Overview

Identifying Threats Through Intelligent Audio



What It Is

An intelligent audio feature utilizing built-in camera microphones and edge-based audio analytics.

The Core Function

Distinguishes actual gunshots from other types of environmental loud sounds, eliminating false positives and ensuring rapid response.

Features

Core Capabilities of the Audio Analytics Engine



Built-in Audio Analytics

Detects gunshots natively using the camera's built-in microphone without requiring external acoustic relays.



AI-Based Audio Analysis

Continuously processes sound profiles in real-time to guarantee high detection accuracy.

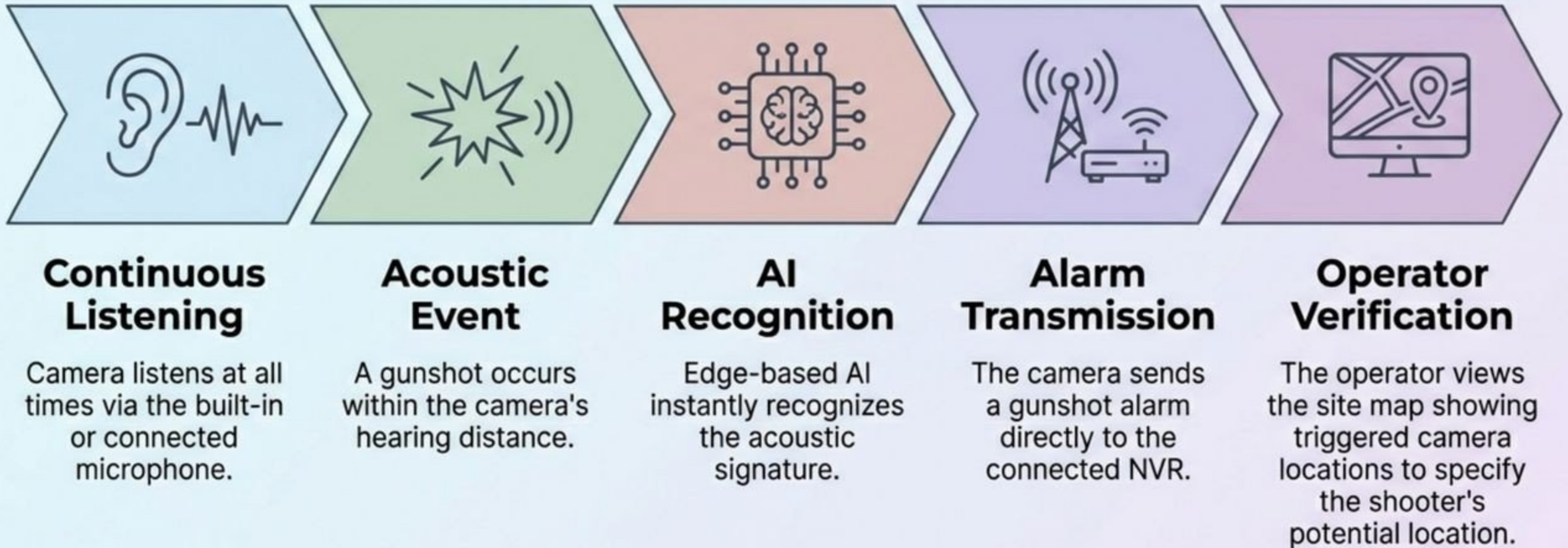


Intelligent Sound Classification

Specifically engineered to distinguish gunshots from other types of loud background sounds.

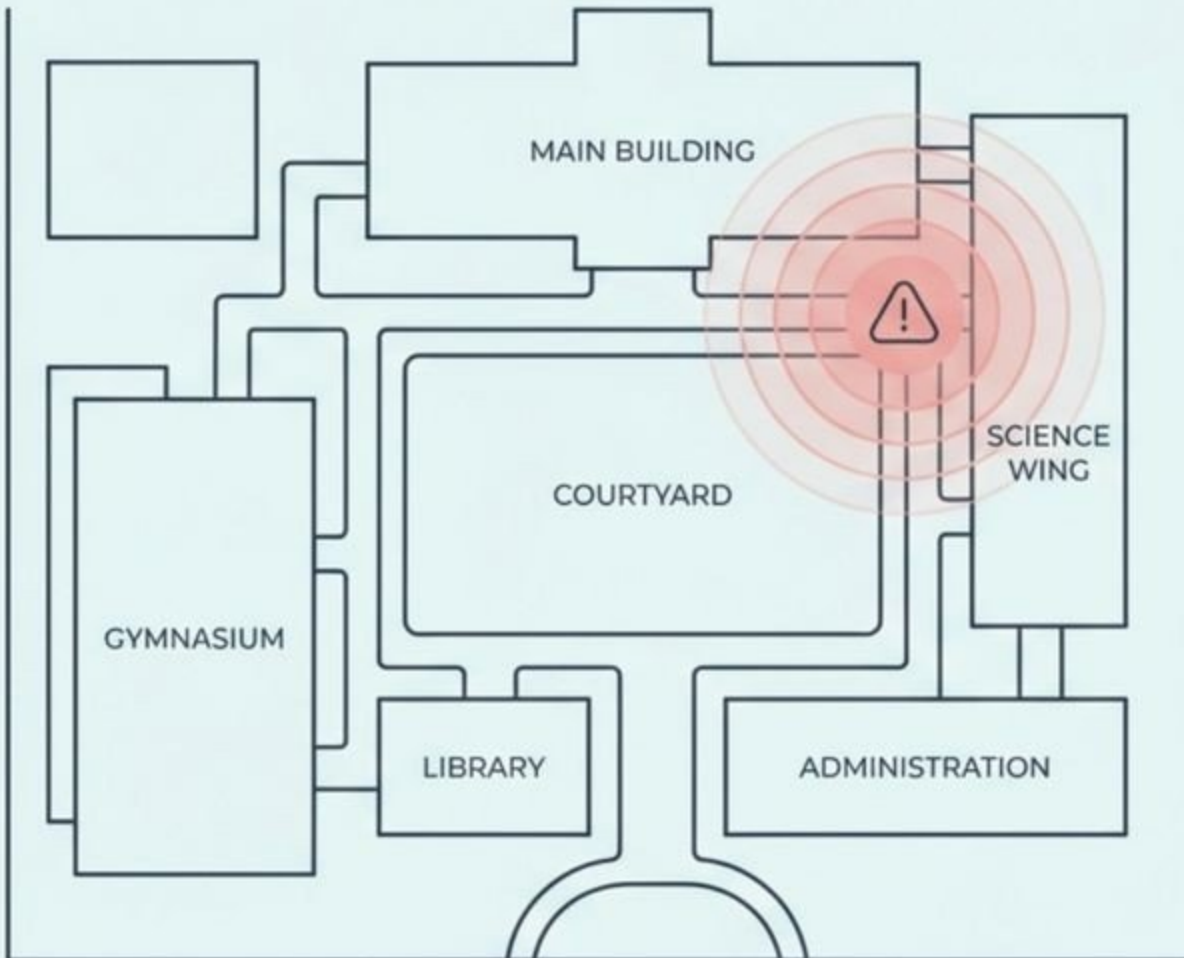
Architectures

System Flow: From Detection to Operator Response



Applications

Critical Deployments in Educational Facilities



Primary Vertical

Schools and Campuses.



The Critical Need

In educational environments, instant response to gunshots is extremely important.

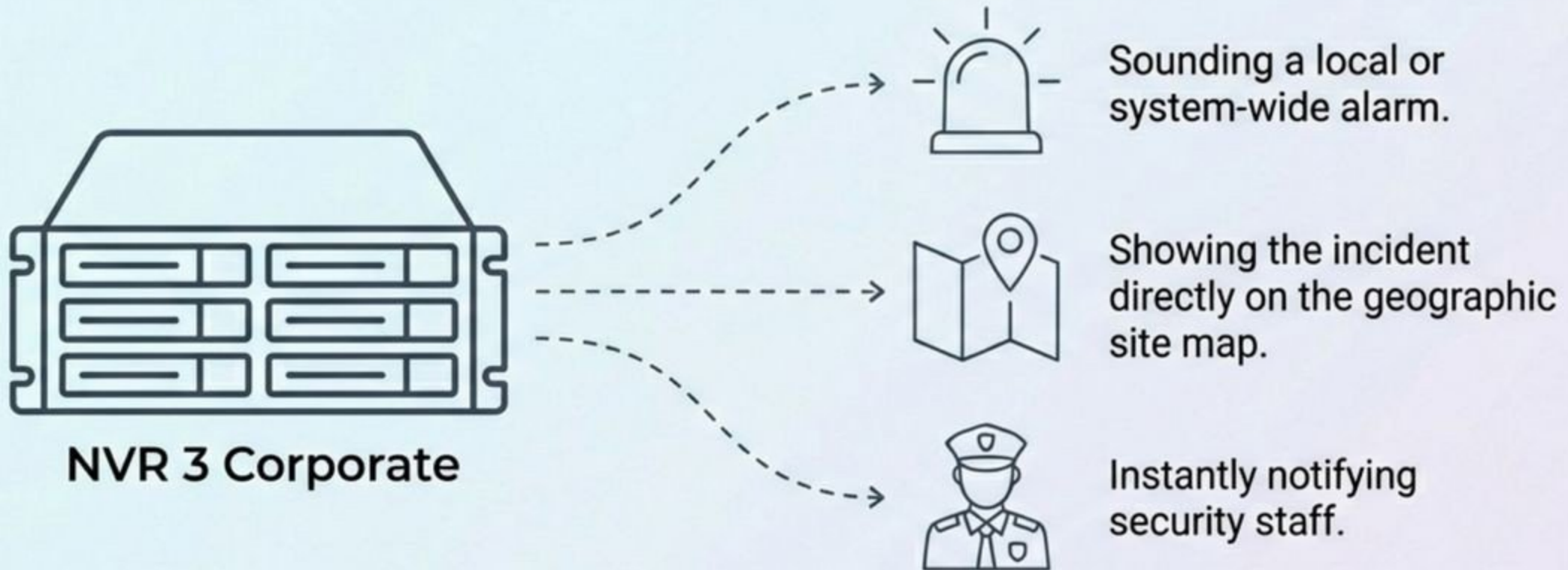


Deployment Strategy

Strategically place analytics-enabled cameras across campus corridors, courtyards, and entry points to maximize acoustic coverage and accelerate emergency lockdown procedures.

Solutions

Seamless Integration with ACTi VMS

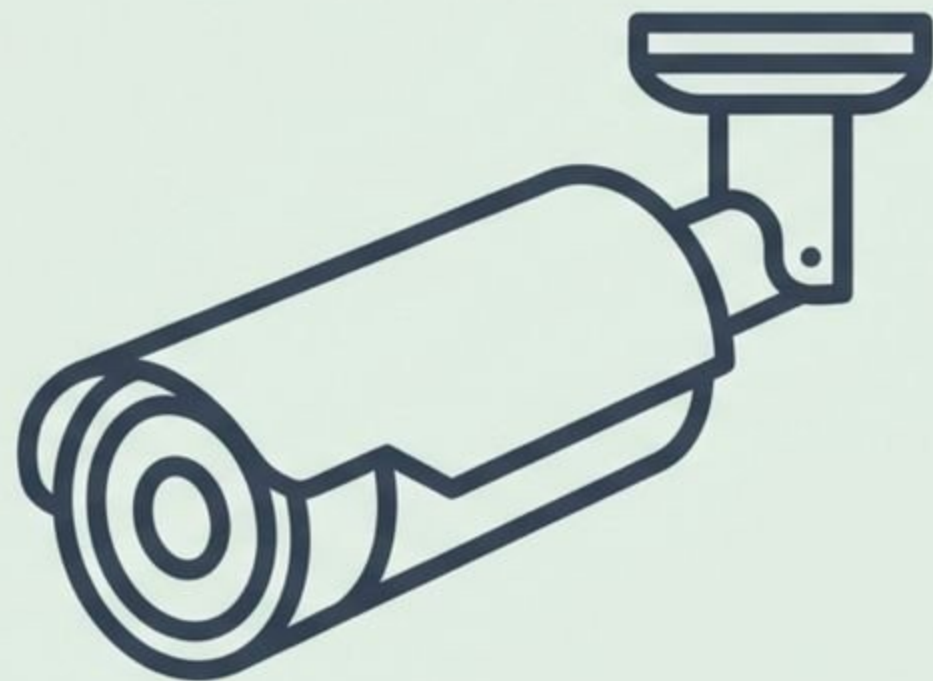


VMS Compatibility

Fully integrates with ACTi's Video Management Systems. When NVR 3 receives an alarm from the camera, it automatically triggers a predefined event response matrix.

Product Introduction

Product Matrix



Product Type	Bullet
Model	A429
Resolution	4MP
Key Differentiators	4.3x Optical Zoom, Extreme WDR
Key Specs	Day/Night, Adaptive IR, Extreme Low Light Sensitivity, Built-in Analytics

Product Introduction

Comparison: Camera-Based vs. Sensor-Based Solutions



IP-Camera Based (ACTi Solution)

- **Hardware:** Uses 1 built-in microphone.
- **Directionality:** Detects gunshot but does not specify the direction.
- **Cost / Investment:** Highly cost-effective; does not require any additional hardware at all.



Sensor-Based Solution

- **Hardware:** Special sensor devices with multiple built-in microphones.
- **Directionality:** Detects gunshots and specifies the exact direction.
- **Cost / Investment:** Requires heavy additional investment in specialized standalone hardware.

Summary

The ACTi Advantage for System Integrators



Highly Accurate

AI-based audio classification reliably distinguishes gunshots from loud environmental noise.



Zero Extra Hardware

Leverages the built-in microphone on the A429 Bullet Camera, keeping project costs competitive.



Ready for Critical Markets

Native integration with NVR 3 Corporate provides the instant map-based response required for school and campus deployments.

Contact Us

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