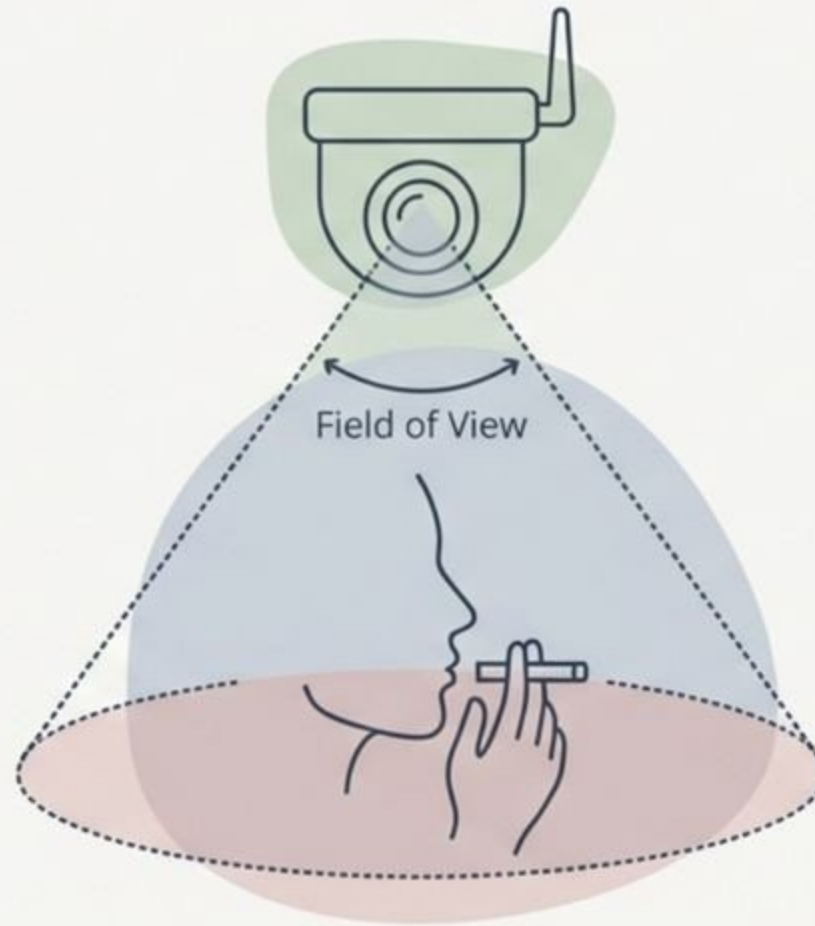


Smoking Detection

Intelligent Behavior Analysis for Safety & Compliance



Overview

Precision through Dual-Factor Analysis

Smoking Detection is an AI-driven feature deployed on the edge (camera) or server (NVR) that analyzes video streams to detect smoking behavior in real-time.

The Challenge: Cigarettes are small objects often missed by standard motion sensors or difficult to distinguish from other items.



Dual-Confirmation Logic: The system triggers an alarm **ONLY** when the cigarette is visible in the mouth **AND** the hand snacked the cigarette simultaneously.

Features

Technical Prerequisites & Capabilities



Scene Requirements

Human-Eye Standard: The cigarette must be clear enough in the video feed for a human observer to identify it.



Lighting Conditions

Illumination: Optimal performance requires good lighting conditions (e.g., well-lit gas stations or illuminated break areas).



Instant Response

Real-Time Triggering: Immediate alarm activation the moment the dual-factor behavior is confirmed.

Architectures

Flexible Deployment Topologies

Option 1: Edge-Based AI (New Install)

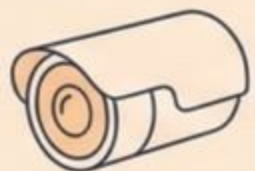


Camera-Side Analysis



Metadata Sent to NVR

Option 2: Server-Based AI (Retrofit)



Standard Stream



ZNR Server Analysis

Applications

Vertical Markets & Use Cases



Energy & Utilities (Gas Stations)

Fire Hazard Mitigation

Critical for refueling zones. System triggers instant alarms and automated voice alerts to 'Stop Smoking' immediately.



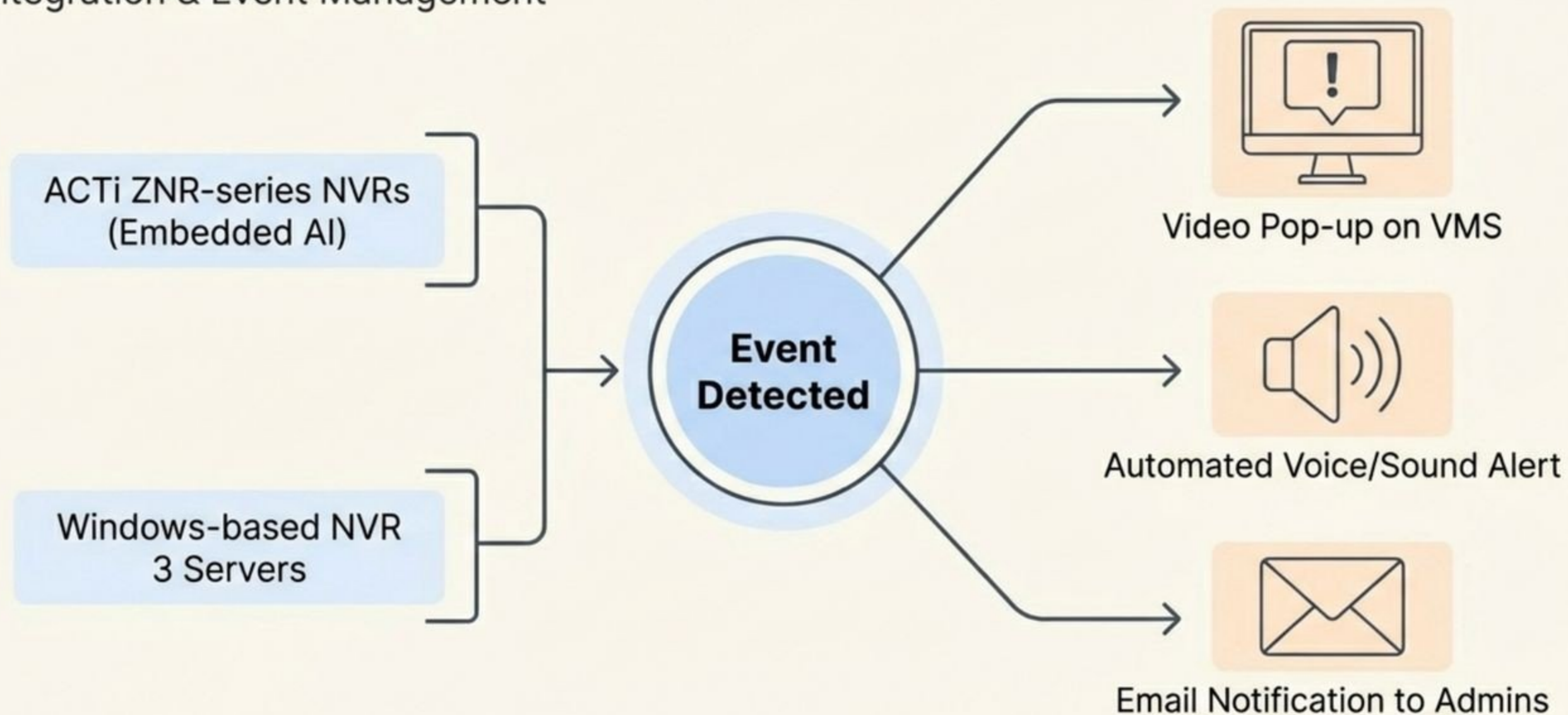
Public Health & Compliance

Regulatory Compliance

Enforcement for non-smoking areas (indoor/outdoor) to prevent health hazards and second-hand smoke exposure.

Solutions

Integration & Event Management



Product Introduction

Model Selection Matrix

Series: Thermal Bullet Cameras		
Icon	Model	Specs
	A371, A371-P1/P2	4MP, Thermal, Adaptive IR, Superior WDR, Low Light Sensitivity
	A374 / A375-Series	4MP, Thermal, Available in -P1/-P2 variants
	A376-Series / A377-Series	5MP, Thermal, Superior WDR
	VMGB-359 Series	4MP, Thermal, Adaptive IR
Series: Outdoor Thermal Turret		
	A570, A570-P1, A570-P2	4MP, Superior WDR, Built-in Analytics

Summary

Key Deployment Takeaways



Precision

Dual-factor confirmation (Hand + Object) minimizes false alarms.



Flexibility

Deploy via Edge (Camera) or Server (NVR) architectures.



Safety

Essential for high-risk fire zones like gas stations and fuel depots.



Integration

Seamless connectivity with NVR 3 and ZNR servers for automated responses.

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