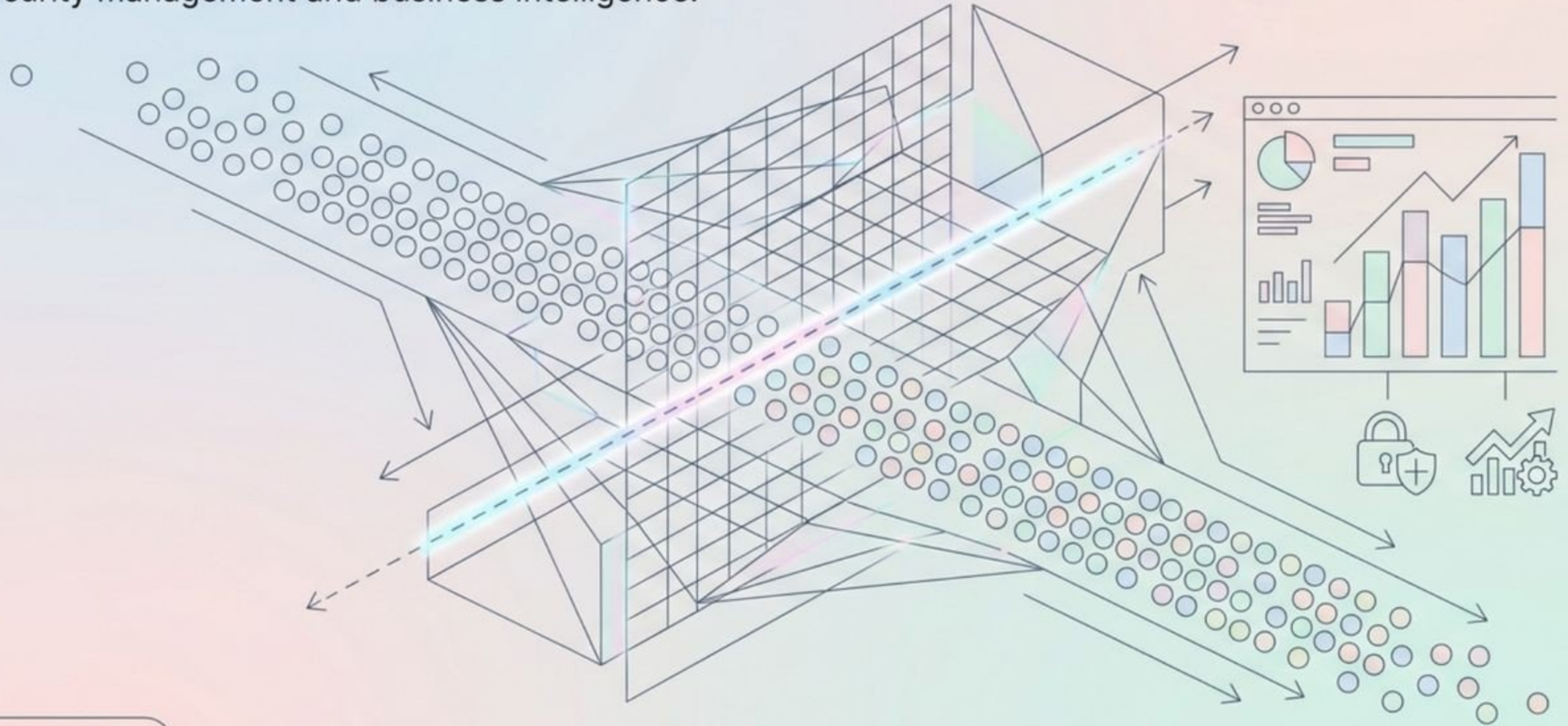


People Counting

Accumulated flow and area counting technology for security management and business intelligence.



2026/02/25

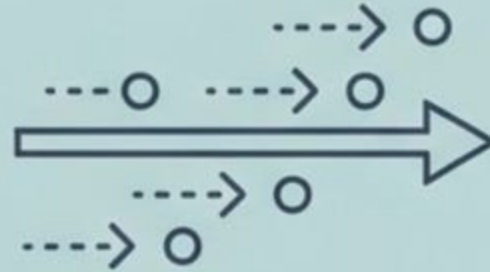
Overview

The Technology Counting Methods



Area Counting

Counts all people appearing in a single video frame. Total count per frame. Best for detecting unexpected crowds.



Accumulated Flow

Counts people entering/crossing a virtual line over time (In/Out). Best for traffic flow analysis.

Data Delivery Output Modes



Metadata

Text-based numbers stored on the server. Allows for generating reports by time periods later.



OSD (On-Screen Display)

Live counting values embedded on the video overlay. Best for instant assessment without special server integration.

Features



Area Counting of People



Accumulated Flow Counting of People



Accumulated Flow Counting of People



Video Streams with Embedded Counting Values

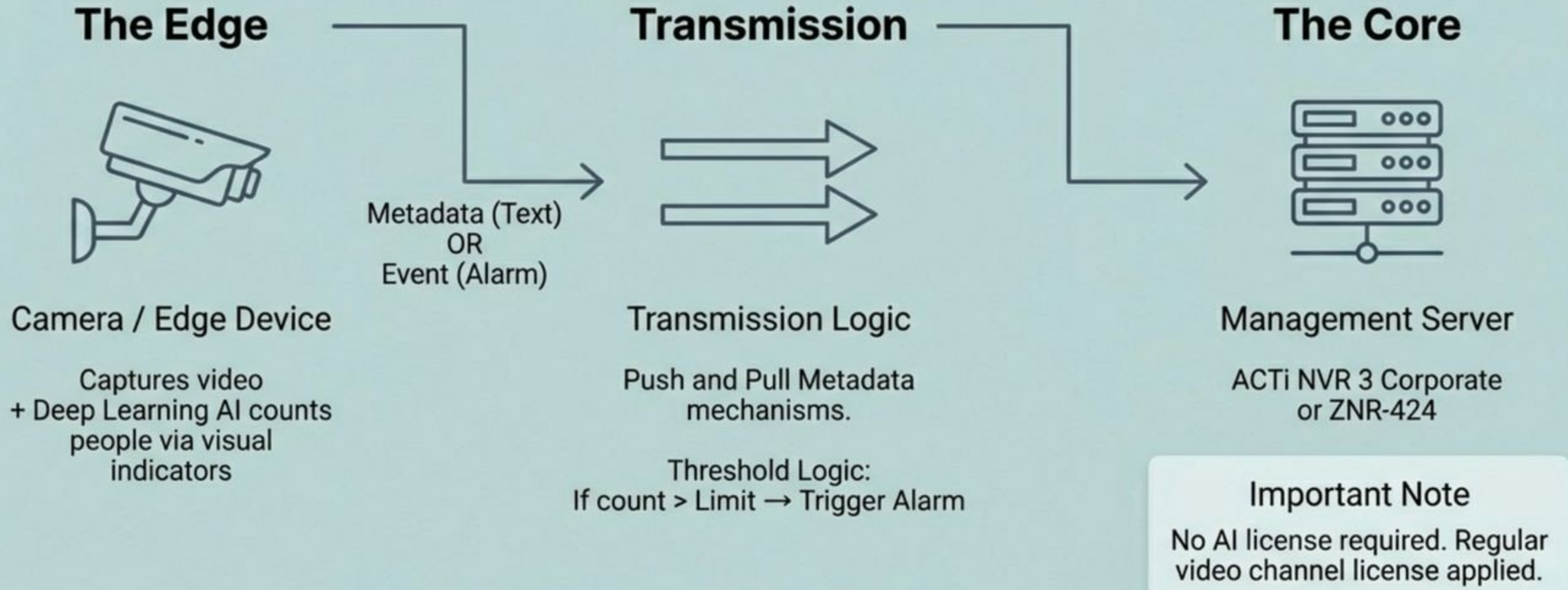


Counting Alarms by Thresholds



Single Camera Occupancy Counting

Architectures



Applications

Security

Crowd Control



Use Case
Crowd Prevention

Mechanism
Security personnel set threshold conditions. When the crowd exceeds the limit, the camera triggers an alert to the control center.

Business Intelligence

Retail & Ops



Use Case
Traffic Analysis

Mechanism
Accumulated flow counting tracks how many people enter/exit over time to support business decisions.

Safety

Occupancy



Use Case
High Occupancy Alarm

Mechanism
Assesses total people in premises (In minus Out). Triggers alarms when capacity is exceeded.

Solutions

Application Scenario	Type	Purpose	Hardware Required	VMS Requirement
Single Line Counting	Multi-frame based (OSD only)	Basic Business Analysis	Smart Z	Any NVR or Camera Web Client
Single-Entrance Occupancy	1 Camera	Security (High Occupancy Alarm)	Z-Series or A-Series (excluding A427/A428)	Any ZNR (except ZNR-126) or Any NVR (Alarm from camera)
Multi-Entrance Occupancy	2 or more cameras	Security (Alarm) or Business (Report)	Z-Series (People Counting)	Any ZNR (except ZNR-126) for aggregation
Crowd Detection	Single frame based	Security (Crowd Alert)	A-Series (excluding A427/A428)	Any NVR (Alarm from camera)

Product Introduction

Product Matrix



Bullet Style

- A220 (2MP, 4.3x), A426 (5MP, 4.4x)
- A427 / A428 / A429 (4MP, 4.3x, Adaptive IR)
- Z411 (4MP, 22x), Z415 (2MP, 10x), Z47 (8MP, 4.3x)



Dome & Turret Style

- A711 (12MP Fisheye), A826 (5MP, 4.4x)
- Z721 (4MP Fixed), Z810 / Z818 (8MP)
- Q550 (8MP, 2-Sensor 180°), Z64 (8MP, 4.3x Turret)



PTZ & Multi-Sensor

- A952 (8MP, 22x), K953 (5MP, 33x)
- Z952 (4MP, 25x), Z953 (8MP, 40x)
- High-End: K9001 (32MP Multi-Imager, 42x), Q84 (20MP 4-Sensor 360°)

Product Introduction

Comparison & Selection Guide



A-Series (The Standard)

Key Specs: Up to 12MP, Extreme WDR, Built-in Analytics.

Focus: Balance of performance and cost.

Key Models: A427, A428 (Specialized for Metadata Reporting), A711.



Z-Series (The Performer)

Key Specs: High optical zoom (up to 40x), Adaptive IR.

Focus: Long-range zoom and high-speed reporting.

Best For: Ideal for Multi-Entrance Occupancy solutions.

Key Models: Z954, Z818, Z411.



K/Q Series (The Specialist)

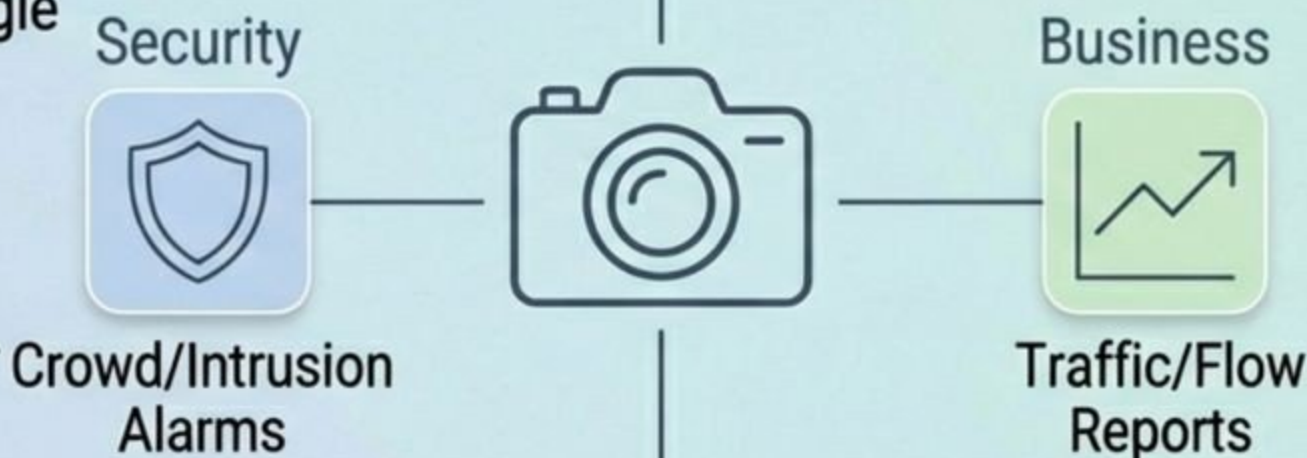
Key Specs: Multi-imager, Extreme resolution, 360° coverage.

Focus: Wide area coverage and critical infrastructure.

Key Models: K9001 (32MP), Q84 (360°).

Summary

- **1. Dual Purpose:** A single system provides both Security (Crowd/Intrusion Alarms) and Business Intelligence (Traffic/Flow Reports).



2. Flexible Architecture: Choose between Edge-based OSD for instant viewing or Server-based Metadata for detailed reporting.

3. Scalability: Solutions range from single-door retail counting (Smart Z) to multi-entrance facility management (Z-Series + NVR 3).

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