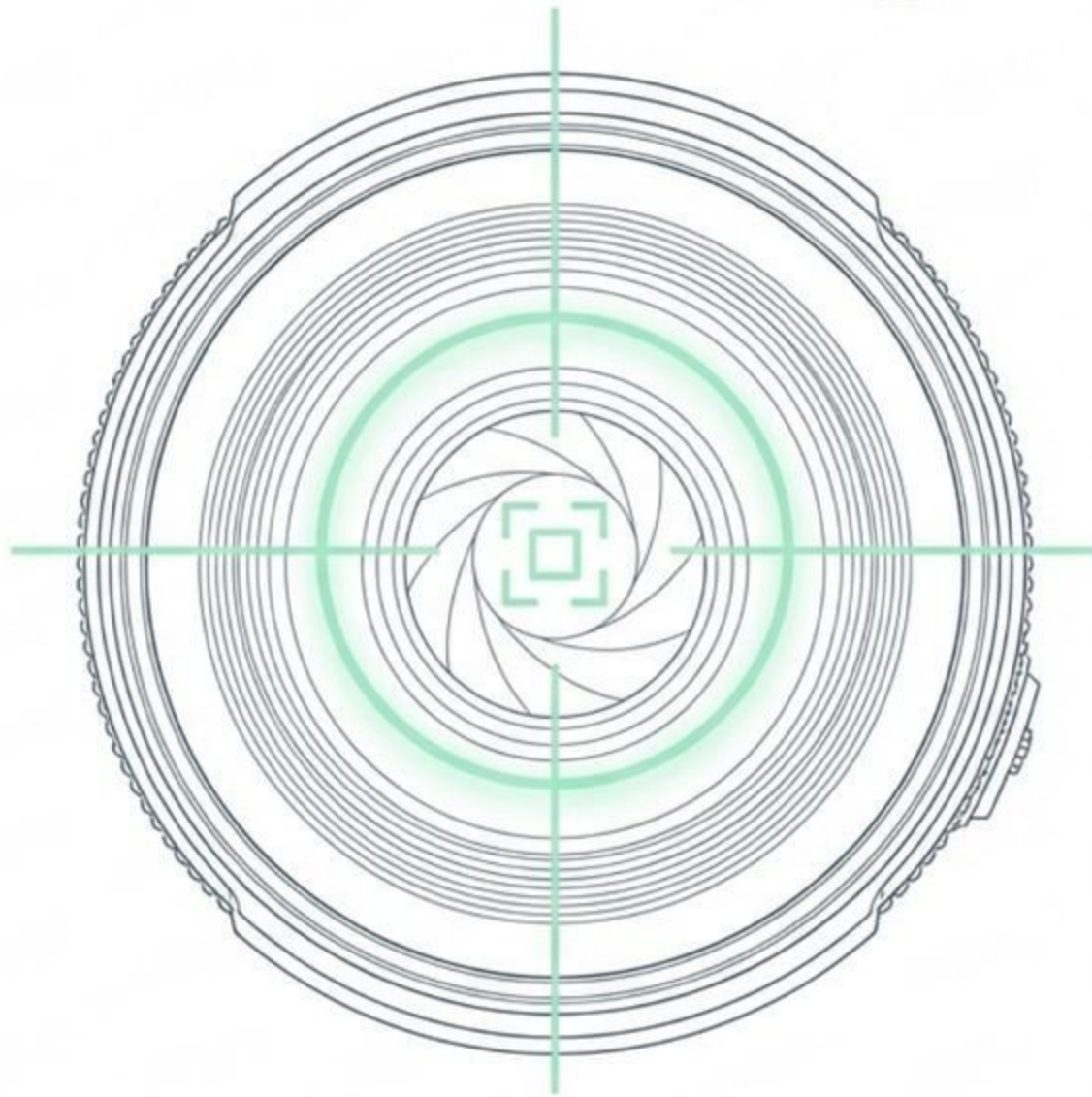


Tracking

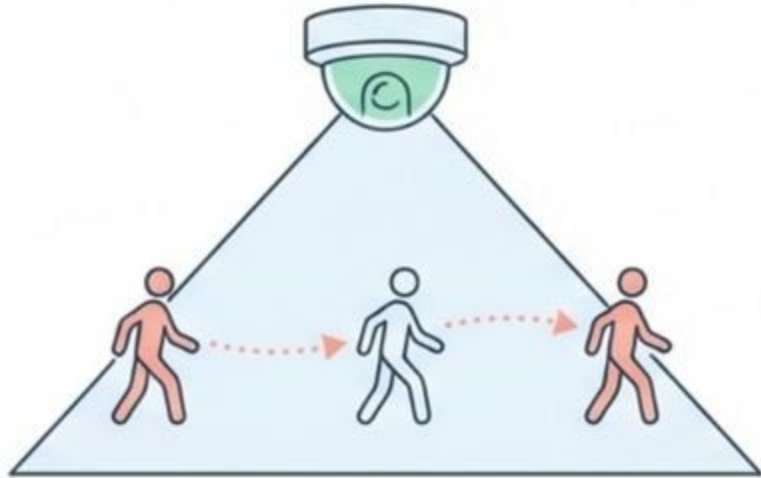


Overview

Object Understanding and Virtual ID Assignment

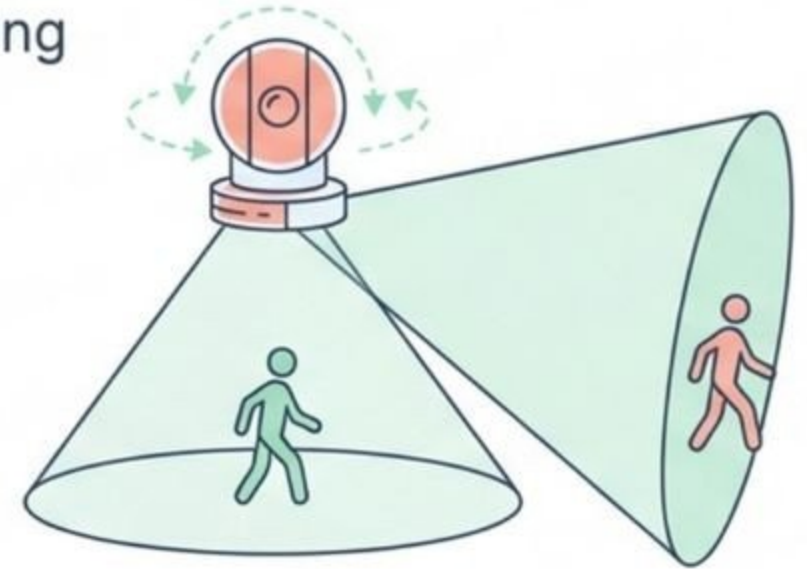
Tracking is the ability of the camera to understand that a person or vehicle across multiple video frames is the same object by assigning a virtual ID.

Fixed Tracking



Occurs within the fixed view. Generates motion paths and recognizes objects (persons) as they move through the frame.

PTZ Tracking



Tracks object within current view and mechanically turns the lens to follow the object as it leaves the view, extending tracking duration.

Foundation for advanced analytics: Loitering, Counting, Wrong Direction, and Missing Object detection rely on this core tracking technology.

Features



People Tracking in a Static View



Vehicle Tracking in a Static View



PTZ Auto Tracking



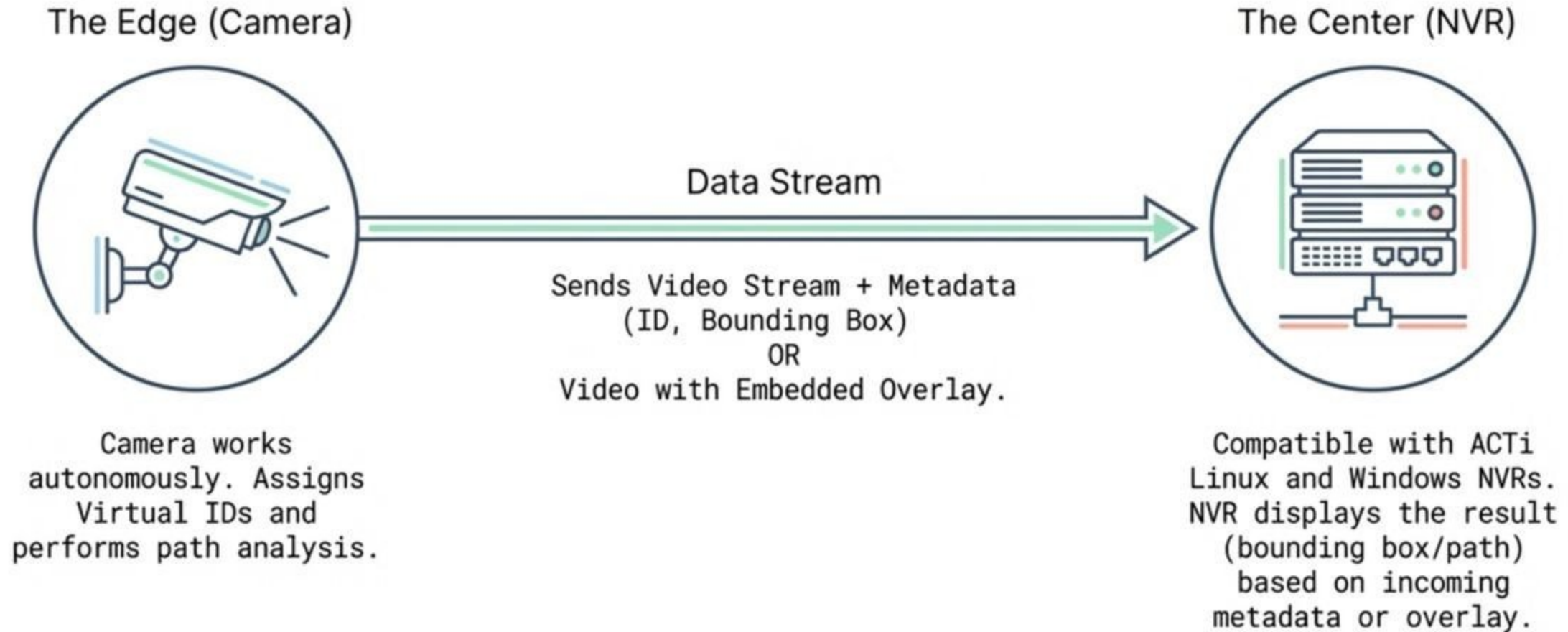
Tracking Events and Metadata



Tracking Assisted Value-Added AI Features

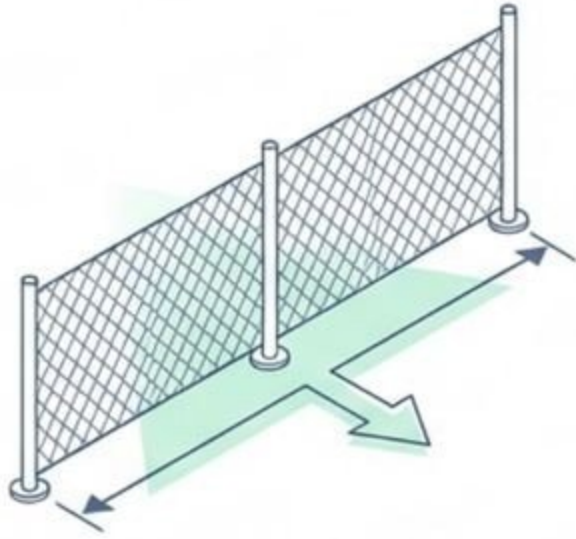
Architectures

Edge Processing and Data Flow



Applications

From Incident Detection to Business Intelligence



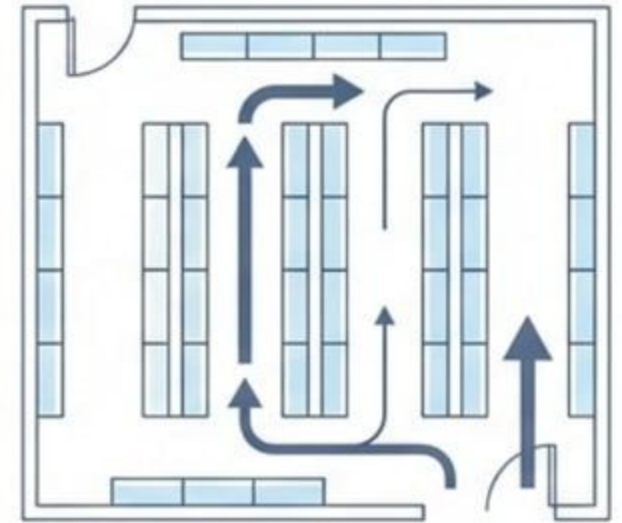
Security & Surveillance

Count time duration of target objects. Loitering detection and instant alarms for perimeter breaches.



Traffic & Transportation

Analyze direction of the path. Instant alarm for vehicles moving in the Wrong Direction.



Retail & Business

Multiple path analysis. Assess dominant direction of object flow for layout optimization.

Solutions

Integration and Visualization Modes

Autonomous Operation

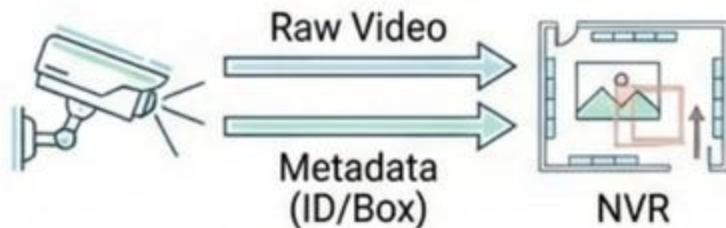
PTZ Tracking functions independently of the NVR. NVR Live View displays the result, ensuring compatibility with any NVR type.



Visualization Options

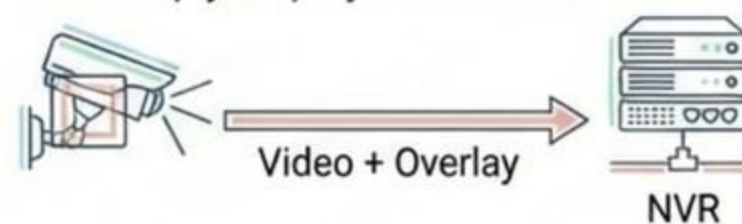
Option A (Server-Side Rendering)

Camera sends raw video + Metadata (ID/Bounding Box). NVR draws the graphics.



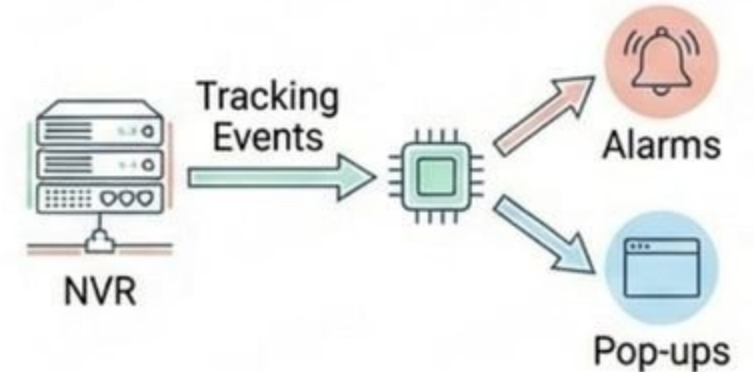
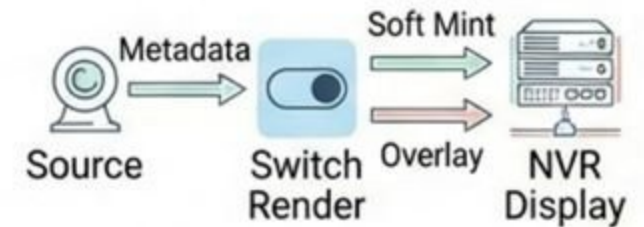
Option B (Edge-Side Rendering)

Camera embeds the bounding box and tracking path as a video overlay. NVR simply displays the stream.



Event Handling

Tracking events trigger ACTi NVR responses via event rules (Alarms, Pop-ups).



Product Introduction

Product Matrix - Grouped by Form Factor



PTZ & Speed Domes

A952, A956, A961, A962, A966,
A967, A967B, A967B-2MP, B916,
B934, I915, I915-K1, I98, I98-K1,
K953, K953-2MP, K954, Z952, Z953,
Z954, Z956, Z957, Z958, Z959



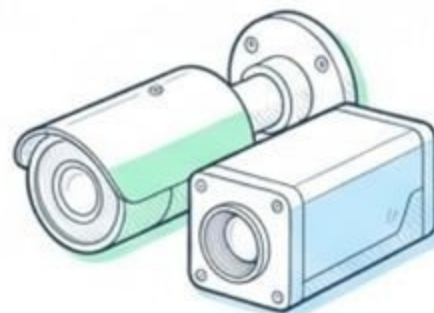
Specialized PTZ

Multi-Imager: K9001 (32MP)
Thermal: A972, A973
Positioning Systems: Q981, Q990,
Q990, Q991, Q992



Fixed Domes & Hemispheric

A711, A826, B511A, B76A



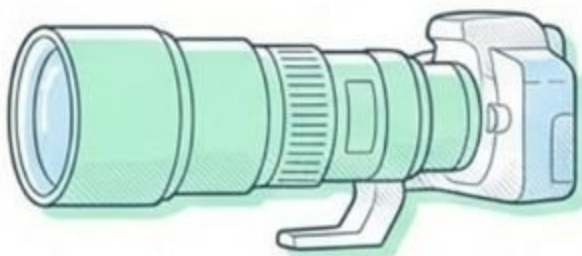
Bullet & Box

A426 (Bullet), A214 (Box)

Product Introduction

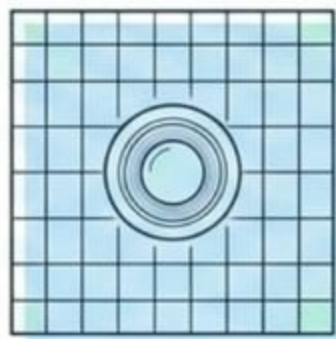
Comparison - Key Performance Differentiators

Maximum Zoom (Long Range)



Key Model: A961
Spec: 60x Optical Zoom
Resolution: 2MP
Use Case: Long-distance tracking.

Maximum Resolution (Wide Coverage)



Key Model: K9001
Spec: 32MP Multi-Imager
Feature: 360-degree coverage with PTZ tracking capabilities.

Specialized Environment (Zero Light)



Key Model: A972 / A973
Spec: Thermal Imaging
Feature: Tracks heat signatures in total darkness.

All listed A, B, and Q series models feature Built-in Analytics and WDR (Extreme/Superior).

Summary



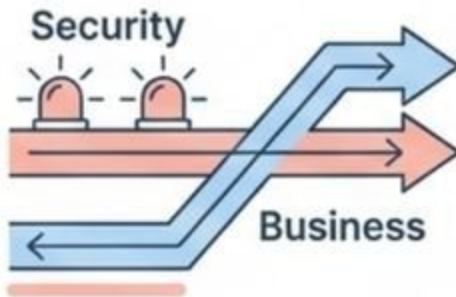
Intelligent

Moves beyond motion detection by assigning Virtual IDs to distinct objects.



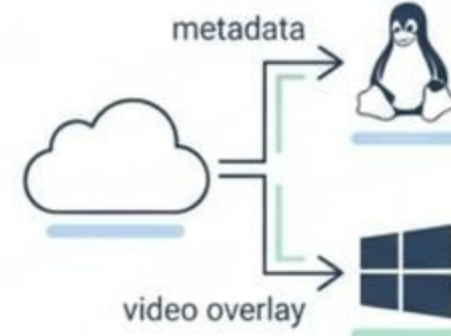
Autonomous

PTZ Auto-tracking operates independently of the server, reducing bandwidth and processing load.



Versatile

Supports both Security (Alarms/Loitering) and Business Intelligence (Flow/Path Analysis).



Compatible

Flexible integration with ACTi Linux and Windows NVRs via metadata or video overlay.

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