

# AI-Native VMS — Evaluation Field Guide

An honest one-page profile of the analytics-first, cloud-first platforms: what each one replaces, the openness boundary, the OpEx cost shape, and where they fit.

## The three at a glance: what does each one replace?

| Platform                  | What it is                                                                                       | Replaces & cost shape                                                                   |
|---------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Eagle Eye Networks</b> | Cloud VMS; on-site Bridge or Camera Direct; ONVIF + open REST API; analytics on existing cameras | Replaces your VMS - cloud OpEx per-camera subscription (merged with Brivo, Dec 2025)    |
| <b>Spot AI</b>            | AI camera system; own cameras + edge appliance; Video AI Agents that act, not just alert         | Replaces / augments cameras - cloud OpEx subscription; reaches into operations + safety |
| <b>Ambient.ai</b>         | Threat-detection overlay; retrofits existing cameras; deliberately no facial recognition         | Replaces nothing - cloud OpEx add-on over the VMS you already run                       |

All three were built analytics-first and cloud-first, ingest video over the open ONVIF standard, and price as a per-camera subscription. They differ by what they replace - a full VMS, your cameras, or nothing. The incumbents (Milestone, Genetec, Avigilon) added AI to a recording core later.

## What "AI-native" means - and where the lock-in moved

An AI-native platform was built so understanding the video is the core job, with recording in service of it - usually in the cloud. "AI-native" describes how the system is built, not how accurate it is: every analytic - detections, agents, threat signatures - is a precision / recall range, never "100%". The lock-in moved up the stack: these platforms are open at the camera (ONVIF ingest + open REST API, so swapping cameras is easy) and locked at the cloud, where your video history, tuned analytics, and data live. Switching cameras is easy; switching platforms migrates all of that. Price the exit, not just the entry.

## The cost shape - an OpEx subscription, not a purchase

AI-native platforms are an operating expense - a per-camera subscription bundling recording, storage, analytics, and updates - where on-prem incumbents are a one-time capital purchase. Illustrative 100-camera site: \$30/camera/mo x 100 x 12 = \$36,000/year (~\$180,000 over 5 years), no servers to buy. It never stops and scales with cameras + retention, so a subscription typically overtakes an equivalent on-prem purchase around year 3. Two hidden cloud costs: the bandwidth to upload video off-site, and cloud analytics at scale. Compare shapes on the same multi-year footing. Figures illustrative.

## Where AI-native fits - and where it doesn't

| Choose AI-native when...                                                                                                                                                                                                                                                                                                                                                          | Look elsewhere when...                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Proactive intelligence and low operational friction are the job; multi-site; you want to keep existing cameras; you prefer a predictable subscription to a big capital purchase; the use case reaches beyond security into operations and safety (Spot AI agents). Keep your VMS and add detection (Ambient.ai), or move your system of record to the cloud (Eagle Eye Networks). | Poor or expensive connectivity; strict data-residency rules forbidding off-site video; a hard requirement to keep recording through any internet outage; a need for maximal third-party integration or deep on-prem control. And never treat "AI-native" as a guarantee of accuracy - the detection still has to be tuned and verified on your scenes. |

## The four questions to ask before you pilot

What does it replace - a full VMS (Eagle Eye Networks), your cameras (Spot AI), or nothing (Ambient.ai)? That decides who must approve it and whether it is an add-on or a rip-and-replace.

Accuracy on YOUR scenes - what precision / recall do the detections, agents, or threat signatures hit under your lighting and angles? Pilot before you trust a vendor number.

Autonomy & oversight - if an agent takes physical actions (alarms, stopping a line), is a human in the loop for the consequential ones? That is a legal expectation, not just good practice.

Cloud dependency & exit - what keeps recording if the internet link drops, where does your data live, and what does it cost to get your data and video out?

Engineering and procurement guidance, not legal advice. Cloud analytics that detect people, plates, or faces process personal data; face matching is special-category data under GDPR Art. 9 and gated by Illinois BIPA (740 ILCS 14). Camera choice can hit NDAA Sec. 889 procurement rules even when the VMS is camera-agnostic. Confirm specifics with qualified counsel.



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This guide profiles Eagle Eye Networks, Spot AI and Ambient.ai and the questions to ask before a pilot. Our seven-volume handbook covers the video stack behind surveillance; start with Volume 6 for computer vision and detection, then Volume 7 for agents and regulation and Volume 1 for camera encoding.

### WHAT YOU WILL FIND INSIDE

- Detection, tracking and OCR on camera video (Vol. 6)
- Agents and real-time alerting (Vol. 7)
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- Encoding and storage for camera fleets (Vol. 1)

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## Comparing AI-native VMS platforms or planning your own?

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