Perimeter Intrusion Detection
Ultra-Long-Range With AI Verification

THE CHALLENGE

Perimeter threat detection requires detecting objects at a distance. In most cases, when a facility's security system or personnel detects a threat, it's too late. Early threat detection provides the extra time needed for deterrence or response dispatch.

Outdoor video motion detection has significant limitations, resulting in false alarms and undetected threats. Automobile light reflections, rain, snow, blowing leaves, birds, and animals contribute to false alarms.

Organizations are deploying video surveillance AI to offset the limitations of outdoor video motion detection. However, most fixed surveillance cameras cannot provide enough pixels on target to support AI object classification at long range.

Installing more surveillance cameras or implementing alternative technologies like radar and buried sensors is a costly solution to improving perimeter security.

THE SOLUTION

Evolon solves the long-range problem using its patented Edge object detection to identify potential threats with only a few pixels on target.

Edge can be paired with one or many PTZ cameras to track and optically zoom on the distant threat. Edge can be coupled with Evolon Insites to apply AI to the zoomed image to verify and classify the threat as a person or vehicle.

Extend camera range
Unlock the full power of Axis and Hanwha cameras, going from feet to miles. Autonomous PTZ control provides locked eyes and more pixels on the threat.

Leverage the power of the cloud
Evolon Insites provides updated, powerful, surveillance-trained AI models to verify true threats. Using scalable computing resources in the Cloud, we outperform on-prem solutions that require expensive servers and GPU resources.

Fully Integrated Security Solution
Native integrations with Milestone XProtect and Immix provide a single pane of glass for monitoring, alarm management, and emergency response.

BENEFITS

- Detect, classify, and alert threats at long range in any condition.

- Reduce false alarms with accurate AI threat detection.

- Improve situational awareness with autonomous PTZ tracking.

- Scale security operations without more people or infrastructure.

- Future-proof your system with a powerful cloud service.

3+ Miles
Proven range of threat detection with AI object classification

90%
Reduction in false alarms with increased AI threat accuracy

Updates
Quarterly AI updates and product releases

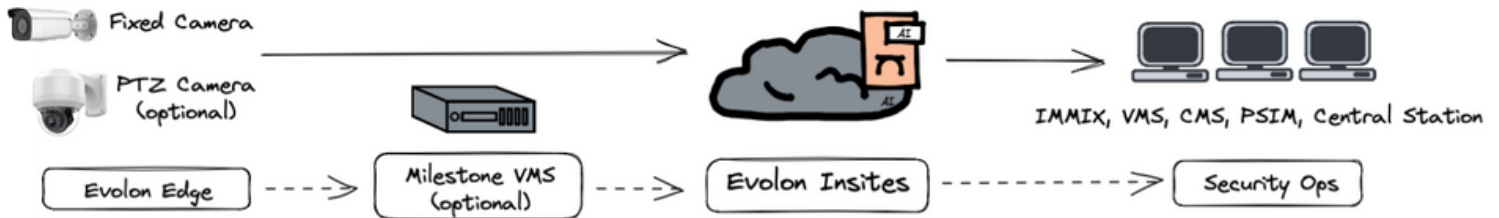## LEARN MORE AT
evolontech.com/edge-to-insites

v1.0 - 8.22

evolon

MADE IN USA

Perimeter Intrusion Detection
Ultra-Long-Range With AI Verification

SOLUTION DIAGRAM

1. Evolon Edge plugs into Axis & Hanwha cameras to detect distant threats with as few as 4 pixels on target.
2. Evolon Edge controls paired PTZ cameras to lock on the targets and zoom to capture an image.
3. Evolon Insites ingests high-quality PTZ images for cloud-based AI verification.
4. Evolon Insites sends the AI-verified alarms to the monitoring station for rapid response.

ULTRA-LONG-RANGE

Scientists out of Los Almos National Lab founded Evolon. We have been perfecting ultra-long-range detection with video surveillance AI for over a decade.

Shown below is threat detection and AI classification at two miles.

KEY PARTNERSHIPS

LEARN MORE AT
evolontech.com/edge-to-insites

v1.0 - 8.22

evolon

MADE IN USA