

Across the broad spectrum of bases, camps, posts, yards, depots, training centers, homeport facilities, warehouses, and arsenals operated by the Department of Defense (DoD), one type of equipment common to virtually all military installations is the CCTV surveillance camera.

While the primary purpose of these video cameras is most often manual or post-facto security—and indeed, military installations require the most rigorous security measures—the traditional workflow of CCTV surveillance is fundamentally constrained. Why?

Human resources simply cannot monitor all of the concurrent streaming feeds from a busy military base effectively and efficiently at all times. This limits the majority of cameras to be perfunctory, passive devices for collecting forensic data rather than proactive tools to keep armed forces personnel, civilians, and civil servants safer in real time.

But what if the DoD could extract exponentially higher value from their video feeds by harnessing the power of artificial intelligence and computer vision (visual AI) technology to identify and classify objects and determine the next best actions based on what its cameras “see”? Now they can.

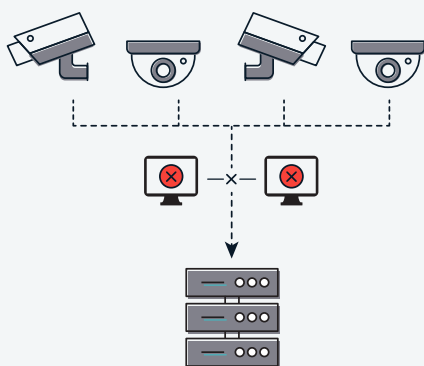
INTRODUCING AVATHON VISUAL AI

Avathon Visual AI automatically analyzes streaming video in real time to detect and track security and safety issues proactively. Visual AI deploys rapidly and integrates seamlessly with commonly found CCTV infrastructure to help security personnel detect emerging threats to people and physical assets and extend situational awareness. Adapting proven technology used today in the public and industrial sectors to strengthen security, enhance productivity, and prevent accidents, Visual AI delivers revolutionary AI-powered capability to the DoD to transform the value of CCTV camera networks across military installations.



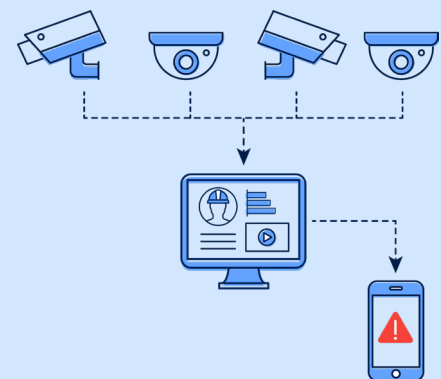
- 24x7 autonomous security monitoring and alert solution leveraging virtually any camera type or CCTV system.
- Automatically detects weapons and other emergent threats inside and outside buildings to help base personnel address them before they escalate.
- Provides real-time awareness of PPE violations, persons in distress, trip hazards, near misses, and more safety issues.
- Adheres to rigorous standards in data access and security to comply with DoD IT environments.
- Does not require storage of any streaming media. All data is analyzed in real time to prevent data leakage.

OLD TECHNOLOGY



- Collects and stores visual data
- Dead digital feed—no insights or actions
- Playback is retrospective
(i.e., used for post-incident/accident investigation)
- No corrective actions issued; no real time risk dashboard

NEW TECHNOLOGY



Active monitoring of
defined violations or
other relevant datapoints

Immediate feedback /
corrective action taken

Alerts sent to designated
manager / foreman

Reduced incident/
accident rates and
increased productivity

AI-POWERED VISUAL ANALYTICS SOFTWARE SOLUTION SERVING A WIDE ARRAY OF CRITICAL USE

Visual AI ships with 125+ end-to-end use cases for safety, security, awareness, and more, including these select examples.



Weapon Detection

Detect humans with rifles or handguns inside buildings or within the perimeter.



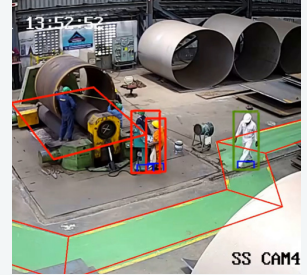
Intrusion Detection

Red zone management, perimeter breach, restricted area, geo-fencing.



Fire Detection

Alert if fire is detected—up to 10-20X faster than traditional fire detection.



Machine Guarding

Alert when humans are in too close proximity to an operating machine.

SCALABLE, SECURE, INTUITIVE, AND VERSATILE

Visual AI scales fluidly to run one or multiple use cases on a single camera or thousands of cameras with no need to upgrade existing camera equipment. The solution processes all streaming data at the edge to prevent data leakage in the cloud, with configuration options to protect personally identifiable information, among other best practices. Admin users can utilize its low code / no code (LC/NC) dashboard to review status and alerts, configure alert logic and notifications, add/remove cameras, or enable use cases with only a few clicks.



Security Use Cases

Autonomously detect weapons, identify perimeter breaches, detect weapons, track and trace persons of interest, flag suspicious vehicles, and more.



Safety Use Cases

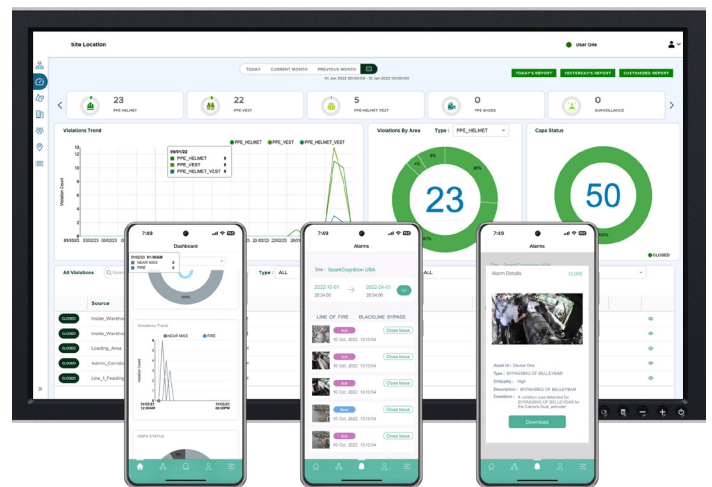
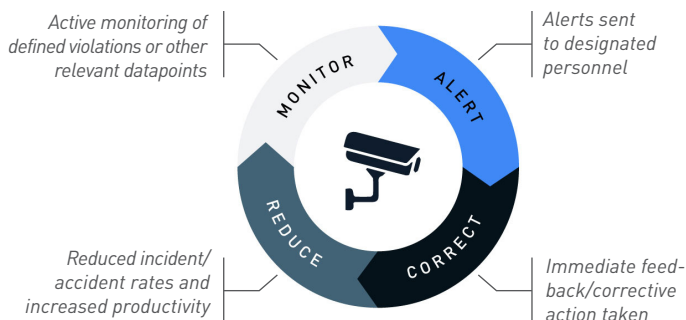
Configure HSE alerts to ensure the safe conduct of personnel every day by tracking near-misses, slip/fall hazards, PPE and protocol compliance, person down, and other safety issues that directly and indirectly impact mission readiness.



Situational Awareness Use Cases

Visual AI enhances situational awareness in defense environments, including face and license plate recognition, headcount and heatmap, loitering in unauthorized areas, and more high-value use cases.

HOW VISUAL AI UNLOCKS PROACTIVE ACTIONS AND INSIGHTS



Visual AI's dashboard makes it easy to configure alerts (web, mobile app, email, SMS) and/or on-site alarms to notify authorities when seconds count.

PROVEN FOR HIGH-VALUE MISSION SETS

The proprietary AI technology powering Visual AI has been hardened and matured over hundreds of deployments on thousands of cameras in the commercial sector—trusted to protect public and private school K-12 students and faculties from active shooter threats, ensure the safety of offshore oil platform workers, and improve the HSE performance of manufacturers across the globe. With its unique capacity to identify, analyze, and alert in real time, 24 hours a day, leveraging the video camera feeds already in place across our nation's military installations, Visual AI significantly improves the DoD's ability to keep our warfighters and civilian workforce safer every day.

ABOUT AVATHON

Avathon, a leader in Industrial AI, extends the life of critical infrastructure while advancing the journey toward full autonomy. Avathon's Industrial AI platform empowers commercial and government customers with scalable, secure, and value-driven solutions that enhance efficiency and resilience across heavy industry.

To learn how Avathon enables mission readiness, visit avathongov.com.