



2025

PELCO

From runway to concourse: complete situational awareness

Pelco for Airports

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Challenges for Airports

- Remote, high-risk environments
- Harsh weather and explosive conditions
- Rising geopolitical and operational threats
- Worker safety and compliance requirements
- Need for real-time situational awareness



Pelco advantage in Airports

- **Proven performance in critical aviation environments** - Trusted globally in airports and transportation hubs with a legacy of reliability, image quality and uptime under mission-critical conditions.
- **Ruggedized, all-environment design** - Cameras built to withstand vibration, extreme temperatures and weather exposure—ideal for runways, perimeters and outdoor infrastructure.
- **Advanced analytics for proactive security** - AI-driven analytics deliver early detection of unusual activity, safety violations or perimeter breaches to enhance situational awareness.
- **Seamless integration and open platform compatibility** - Easily connects with existing VMS, access control and command systems—supporting modernization without full infrastructure replacement.
- **Centralized visibility and control** - Unified monitoring across terminals, airfields and parking areas enables coordinated response and faster decision-making.
- **Global support and aviation expertise** - Backed by Pelco's worldwide service network and decades of experience in transportation security deployments.



Video security application areas

Terminal operations

Monitor passenger flow, detect unattended baggage and enhance situational awareness in high-traffic public areas.

Perimeter and airfield security

Protect restricted zones, runways and airside access points with long-range detection, thermal imaging and intrusion analytics.

Parking and ground transportation

Ensure safety across parking structures, drop-off zones and transport hubs with video coverage and license plate recognition.

Customs and baggage handling

Support inspection processes, prevent theft and trace lost or tampered baggage with video verification and event logging.

Cargo and logistics zones

Secure high-value freight areas, loading docks and warehouses while maintaining compliance with aviation security standards.

Control rooms and command centers

Enable centralized monitoring, video verification and coordinated response through integrated VMS and analytics platforms.

Employee and contractor areas

Enhance access control, enforce PPE and safety compliance and verify authorized personnel in maintenance or restricted areas.



Use cases

Airports face increasing pressure to detect threats, ensure safety and maintain compliance across vast, high-risk environments. They must modernize legacy video systems to improve coverage, reliability and situational awareness—without the cost or disruption of a full infrastructure overhaul.



Airfield and perimeter intrusion detection:

Unauthorized access attempts or security breaches along vast, restricted airfield and perimeter zones can go unnoticed due to limited visibility, distance and environmental conditions.



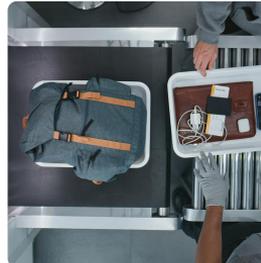
Terminal crowd monitoring and threat response:

High passenger volumes, congested checkpoints and public spaces make it difficult to identify unattended baggage, suspicious behavior or developing safety risks in real time.



Asset & facility protection:

Ensuring that ground crews, maintenance staff and contractors follow safety protocols and PPE requirements across hazardous, fast-moving operations is a constant challenge.



Cargo and baggage chain-of-custody verification:

Tracking cargo and baggage through multiple handoffs exposes vulnerabilities to theft, tampering and compliance violations when there's limited visibility into handling areas.



Multi-site command and incident management:

Security, operations and law enforcement teams often rely on disconnected systems, making it difficult to coordinate response and share situational data during time-sensitive incidents.

Use cases

Airfield and perimeter intrusion detection

Challenge:

Airports must secure vast, remote airfields and perimeters that are exposed to extreme weather, vibration and poor visibility. Unauthorized access or vehicle movement across restricted areas can go undetected due to environmental and distance challenges.

Solutions:

- **Long-range detection:** Thermal and optical imaging provide continuous visibility across wide outdoor zones and in low-light conditions.
- **Rugged reliability:** Equipment designed to withstand wind, vibration and temperature extremes ensures uninterrupted coverage.
- **Automated intrusion detection:** Intelligent analytics identify perimeter breaches and unauthorized movement in real time.
- **Wide-Area tracking:** Pan-tilt-zoom capabilities enable persistent observation of moving targets across large distances.
- **Integrated awareness:** All perimeter activity is unified within central command platforms for faster response.



Portfolio spotlight

Airfield and perimeter intrusion detection

Sarix Thermal Enhanced 4

Long-range detection and visibility through fog, darkness and heat distortions.

ExSite Pro

Explosion-rated camera for fuel or chemical areas.

ExSite Enhanced

Ruggedized PTZ coverage in extreme weather conditions.

Spectra Enhanced 8

High-speed PTZ tracking for wide perimeter zones.

Silent Sentinel Aeron

Dual-sensor PTZ for ultra-long-range surveillance in critical perimeter or runway areas.



Use cases

Terminal crowd monitoring and threat response

Challenge:

High passenger volumes and constantly changing conditions make it difficult to identify suspicious activity, unattended baggage or aggressive behavior before it escalates. Manual monitoring is insufficient for maintaining passenger safety and operational continuity.

Solutions:

- **Comprehensive coverage:** High-resolution and panoramic imaging deliver complete visibility across terminals and checkpoints.
- **Behavioral analytics:** AI-driven detection identifies abnormal movement, loitering and crowding patterns.
- **Low-Light clarity:** Cameras maintain image quality in variable lighting, ensuring 24/7 awareness.
- **Event correlation:** Automated alerts feed directly into command systems to accelerate incident verification.
- **Operational efficiency:** Continuous video oversight reduces false alarms and staff burden during peak hours.



Portfolio spotlight

Terminal crowd monitoring and threat response

Sarix Pro 4 Series

High-resolution fixed cameras ideal for entrances, corridors and checkpoints.

Sarix Enhanced 4

Multi-analytic performance for active monitoring of large interior spaces.

Sarix Multi Enhanced

Multi-directional coverage with a single device for expansive terminal views.

Spectra Enhanced 7 IR

PTZ with infrared illumination for low-light terminal zones.



Use cases

Worker safety and compliance monitoring

Challenge:

Ground crews, maintenance teams and contractors operate in high-risk zones where noncompliance with PPE or safety protocols can lead to accidents and regulatory issues. Ensuring consistent oversight across dynamic environments is complex.

Solutions:

- **Safety oversight:** Fixed and mobile imaging maintain continuous visibility of work zones and maintenance areas.
- **Compliance verification:** Advanced analytics detect missing PPE and restricted-area violations.
- **Thermal and dual-spectrum monitoring:** Identifies heat exposure and unsafe proximity in hazardous conditions.
- **Behavioral detection:** Smart sensors detect aggression, smoke or distress signals in staff areas.
- **Regulatory assurance:** Supports adherence to aviation and occupational safety requirements.



Portfolio spotlight

Worker Safety and compliance monitoring

Sarix Pro 4 Series

Verifies activity and PPE usage in maintenance and gate areas.

Sarix Enhanced 4

Analytics-ready for monitoring restricted zones.

Esprit Compact / Bispectral

Combines visual and thermal imaging to oversee maintenance or tarmac operations safely.

Halo Smart Sensor

Detects smoke, vaping, air quality and aggressive behavior in enclosed work zones.



Use cases

Cargo and baggage chain-of-custody verification

Challenge:

Cargo and baggage move through multiple secure handoffs, making it difficult to maintain accountability and detect tampering or theft. Gaps in visual documentation can compromise security investigations and regulatory compliance.

Solutions:

- **Continuous oversight:** Imaging across conveyors, docks and storage zones ensures every handoff is visible.
- **Access validation:** Integrated video and access systems confirm authorized personnel at loading and transfer points.
- **Multi-Angle coverage:** Panoramic and multi-sensor imaging captures entire logistics lanes simultaneously.
- **Event traceability:** Video evidence enables quick verification of loss, damage or chain-of-custody concerns.
- **Compliance support:** Maintains audit-ready records for aviation and customs authorities.



Portfolio spotlight

Cargo and baggage chain-of-custody verification

Sarix Enhanced 4

High-detail imaging for loading docks and conveyors.

Sarix Pro 4 Series

Reliable coverage for processing and logistics zones.

Sarix Multi Enhanced

Monitors multiple lanes or sorting lines simultaneously.

Halo Smart Sensor

Monitors environmental conditions in cargo storage areas.



Use cases

Multi-site command and incident management

Challenge:

Security and operations teams rely on information from multiple zones—terminals, airfields and parking areas—making it difficult to gain unified situational awareness or coordinate response efficiently.

Solutions:

- **Unified visibility:** Centralized video management integrates feeds from all airport zones for a common operating picture.
- **Real-Time coordination:** Cross-department alerts enable instant collaboration between security, operations and law enforcement.
- **Intelligent prioritization:** Automated analytics filter critical events from routine activity to reduce response time.
- **Scalable oversight:** Supports multi-terminal or multi-site management from a single interface.
- **Operational continuity:** Improves communication and decision-making during both daily operations and critical incidents.



Portfolio spotlight

Worker Safety and compliance monitoring

Spectra Enhanced 8

Integrates with centralized platforms for rapid situational tracking.

Esprit Enhanced 6

Provides high-speed, high-zoom coverage from elevated positions.

Halo Smart Sensor

Feeds real-time environmental and behavioral data into command dashboards.

Sarix Enhanced 4 / Pro 4 Series

Consistent, reliable imaging across terminals and parking areas for unified situational visibility.



Cybersecurity and data protection

Challenges:

Growing risk of cyber threats targeting video security networks.

High profile data breaches can jeopardise operations and damage reputation

Solution:

- **Data protection:** Safeguards sensitive operational and security information from unauthorized access.
- **Operational continuity:** Reduces risk of downtime or breaches that could impact pipeline, refinery or offshore operations.
- **Regulatory compliance:** Supports industry standards and governance requirements for data security.
- **Peace of mind:** Ensures that security infrastructure remains resilient against evolving cyber threats
- **End-to-End encryption:** Pelco cameras support TLS 1.2, RMS and FIPS 140-2 standards to secure live and recorded data.
- **Continuous firmware updates:** Keep devices protected against the latest cyber threats.



Compliant & certified for your customers' needs

Pelco is dedicated to adhering to the highest industry standards, ensuring the security and reliability of our products.

Solutions:

- US-based security devices company
- Meets stringent requirements for use in government and critical infrastructure projects
- Protects sensitive data from unauthorized access
- Allows for easy integration with existing VMS
- Additional product certifications for hazardous and corrosive environments



**NDA Sec. 889
Compliant**



TAA Compliant



**FIPS 140-3
Certified**

ONVIF

**ONVIF
Conformant**



GSA Contract



GDPR Compliant



Technology beyond video

Expanding intelligence and integration across the Pelco portfolio

Elevate Enabled

An **Elevate Enabled camera** has the technology inside to connect directly to the cloud. That means you can set it up in minutes, manage it easily, and get AI-powered insights without extra equipment.

Elevate Enabled means the camera has **built-in technology** that allows it to:

- Connect directly to the cloud without extra hardware or gateways
- Be instantly claimed into Calipsa with a QR code or serial number
- Unlock advanced cloud-verified detections (like PPE compliance or visible firearm detection)

Advanced analytics:

Detect everything from people crawling - to vehicles stopped on the side of the road. Available in virtual every Pelco camera, with exception of Sarix Value, Silent Sentinel (which has its own set of analytics).

Calipsa:

Calipsa analyzes frames instead of video to save time and bandwidth, extracting more value from new and existing video systems by turning video into data, and data into business intelligence, resulting in cost savings.

Third-Party integrations:

Our open-platform approach ensures interoperability, enhances existing infrastructure, and allows you to leverage Pelco cameras, analytics, and sensors alongside their preferred security solutions for a unified, scalable system.

Special Modification Request:

Enables customers to request tailored modifications to Pelco products when standard models do not meet unique project requirements.

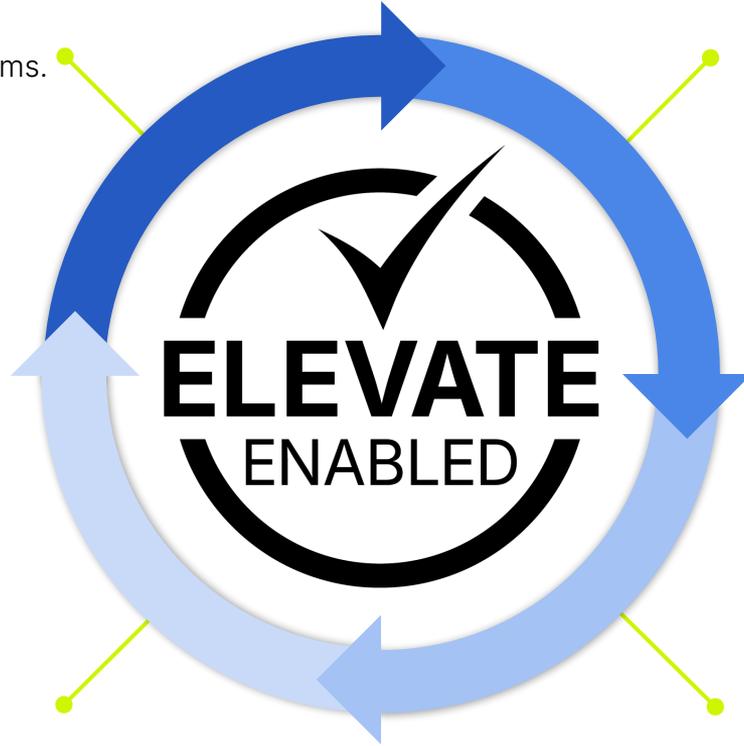


Seamless compatibility

Works with Pelco cameras and third-party VMS platforms.

Smarter maintenance

Automated detection of scene changes.



Simple scalability

Manage multiple sites effortlessly from the cloud.

Proactive security

AI-powered alerts for faster response and incident prevention, with reduced false alarms

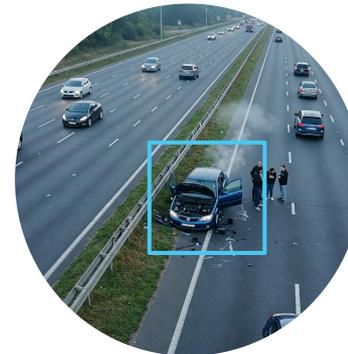


Edge analytics

Smart Analytics Human / vehicle activity	Detection types
	Object loitering
	Object crossing beam
	Objects in area
	Object enters area
	Object leaves area
	Object stops in area
Direction violated	
Crawling	

Specialized detections *Elevate required	Visible Firearm Detection
	Personal Protective Equipment (Vest)
	Personal Protective Equipment (Hardhat)
	Image blurry / obstructed
	Image moved / shifted

Audio Analytics	Scream
	Glass Break
	Car Alarm
	Smoke Alarm
	Dog Bark
	Tire Screech
	Loud Noise
	Ultrasonic Panic Alarm



*See camera specification for additional details

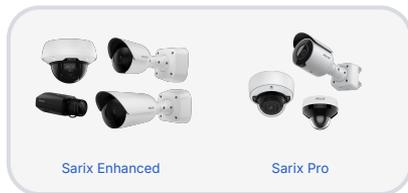
Pelco analytics

	Detection types	Value	Pro	Enhanced
Smart Analytics Human / vehicle activity	Direction violated	● (pixel based)	●	●
	Object crossing beam	● (pixel based)	●	●
	Objects in area	● (pixel based)	●	●
	Object loitering	-	●	●
	Object enters area	-	●	●
	Object leaves area	-	●	●
	Object stops in area	-	●	●
	Crowd (<i>Size, Unusual Size, Unusual Growth</i>)	-	●	●
	Crawling	-	-	●
	Vehicle subclass (<i>Car, Large Truck, Bus, Pickup Truck, Motorcycle, Bike</i>)	-	-	●
Specialized detections *Elevate required	Image blurry / obstructed	-	●	●
	Image moved / shifted	-	●	●
	Personal Protective Equipment (Vest)	-	●	●
	Personal Protective Equipment (Hardhat)	-	●	●
	Visible Firearm Detection	-	-	●
		-		
Audio Analytics	Scream	-	●	●
	Glass Break	-	●	●
	Car Alarm	-	●	●
	Smoke Alarm	-	●	●
	Dog Bark	-	●	●
	Tire Screech	-	●	●
	Loud Noise	-	●	●
	Ultrasonic Panic Alarm	-	●	●

Cameras with Edge Analytics

From everyday security to the most demanding applications, Pelco cameras are available with Smart Analytics

Bullet/Dome/Box/Wedge



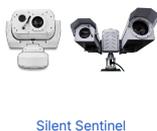
Panoramic



Pan-tilt-zoom (PTZ)



Specialty

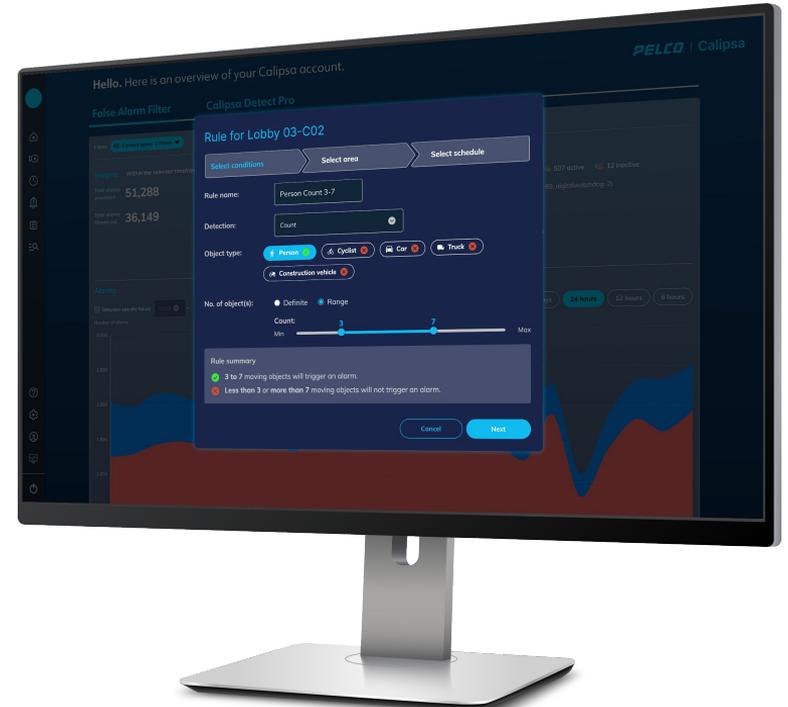


Calipsa Pro Analytics

- Analytics for real-time and forensic analysis
- One cloud-based platform.
- Four tiers of advanced analytics for your video security needs.

Solutions:

- **Calipsa Detect** – Filters 93% of false alarms in video by detecting humans and vehicles using deep learning.
- **Calipsa Detect Pro** – Adds camera health checks, including scene change and idle camera alerts, ensuring 24/7 reliability.
- **Calipsa Protect** – Enhances basic video alarms with intelligence for watchlists, PPE, LPR, crowd forming, loitering, and region/count-based alerts.
- **Calipsa Investigate** – Cloud-based forensic analytics that searches and summarizes alarms using metadata for efficient review.



VMS partners

Open and secure

Pelco Connect (plug-in)

Analytics Configuration, Forensic Search, Camera Control and Firmware Management for Milestone and Genetec

This plug-in simplifies user experiences and exposes camera features within Genetec and Milestone that are not standard VMS options of ONVIF integration.

- Configure Pelco analytics directly within Genetec and Milestone VMS.
- Forensic search capabilities to quickly filter video results based off object classification (ie. blue truck) Export and share.
- Create object detection zones, tripwires, counterflow zones, counter tripwires plus excludes zones.
- Support for all Pelco cameras with Smart Analytics and Advanced Analytic.
- Support for bulk adding events for Halo devices



Special Modification Request (SMR)

Customize your customers' security for aesthetics or environmental needs with Pelco's one-of-a-kind program. Solve installation, usability and productivity challenges and offer discreet security without disrupting day-to-day activity.



Retrofit new products into existing installations

- Incorporate new products into current installation.
- Upgrade to IP cameras while maintaining existing analog infrastructure.

Blend cameras with custom colours

- Keep consistent look and feel.
- Align camera and accessory design with aesthetics with paint matching.

Adapt architectural features through custom fabrication

- Custom mounting configurations
- Modify housing material to meet environmental requirements.

Professional services & support

Field services	Training	Advanced technical support	Support community
On-site and remote system setup configuration	In-person and virtual environments	Global support/service centers	Knowledge based articles, how-to videos
Software upgrades	Installation, design and adoption	Regional support specialists for troubleshooting	Community discussions
	Product videos, sales tools	24/7 support	Chat with support



Why Pelco

Over 65 years of video security legacy, a long-term supplier to public safety and enterprise customers globally

Elevate

Expect more from Pelco cameras with direct camera-to-cloud technology that combines edge and cloud AI capabilities.

Smart Analytics

AI-powered technology for improved detection and faster response times.

Refreshed portfolio

Camera portfolio has been refreshed over the last 3 years and has doubled in size.

Open and reliable

Flexible platform for ONVIF-conformant video management systems with industry leading service, support and quality.

Easy installation

Pelco cameras provide flexible installation options with a variety of mounts and a built-in junction box for simplified wiring and connections.



Why Pelco *(Continued)*

Specialty devices

Capable of operating in extreme environmental and lighting conditions. High quality, rugged, stainless steel, explosion-proof cameras, illuminators, enclosures and accessories.

Beyond video security

Add another layer of security and environmental awareness through our advanced sensor technology while ensuring complete privacy.

Special Modification Request (SMR)

Customize products and solve installation and usability challenges including retrofit, custom finish and mounts, architectural and environmental.

Secure and 100% "NDAA Compliant"

Our products assist customers to provide a robust layered security infrastructure to comply with local and regional cyber needs and certifications.



**Pelco is the missing
ingredient that
supercharges any
system, giving you
extra edge**



Thank you

Follow us



Appendix

