

Transform Video Surveillance into Actionable Information

Video analytics process video in real-time and transform it into intelligent information. By automatically detecting, classifying, and tracking objects, video analytics enable security and operational teams to respond faster to threats, direct attention to abnormalities, and gain actionable insights.

In a fast-paced security environment, the ability to transform raw surveillance footage into meaningful intelligence is essential for staying ahead of emerging threats and operational challenges. Senstar video analytics eliminate the burden of manual monitoring, freeing security teams to focus on strategic decision-making while automated systems continuously scan for anomalies, ensuring nothing goes unnoticed and every second of coverage delivers maximum value.

Features and Benefits

Integrated Part of Senstar Symphony

- Built-in, ready to be activated, no extra analytic servers required
- Use to trigger alarms, rules, and workflows
- Add analytics to virtually any camera

Direct Operator Attention

- Generate alarms based on virtual zones, directional tripwires, and loitering times
- Link alarms to multiple cameras for full situational awareness

Enhance Site Security

- Track objects such as people and vehicles outside, at, and inside perimeter
- Eliminate nuisance alarms with Sensor Fusion Engine analytic
- Streamline vehicle entry and exit
- Enhance access control by using face recognition for multi-factor authentication

Collect Operational Data

- Identify and track vehicle access
- Link video to QA processes

Optimize Video Management

- Highlight and summarize video of interest
- Switch to higher-resolution video recording during threat events

Flexible Licensing

- Pay only for what you need
- Move analytic licenses between cameras

Leverage Your Surveillance System to Solve Security and Operations Challenges

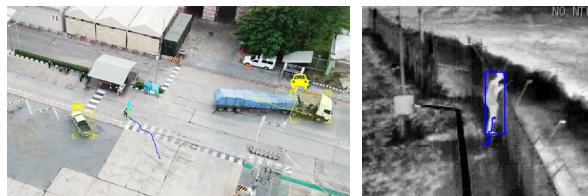
Video analytics offer a highly cost-effective way to upgrade your facility's protection by transforming your existing surveillance cameras into intelligent sensors, maximizing the value of the infrastructure you already own without the need for expensive hardware overhauls. These solutions streamline operations and significantly reduce the labor costs associated with manual surveillance, providing a high return on investment and ensuring critical events are captured and reported.

PERIMETER INTRUSION DETECTION

As human operators cannot reliably watch multiple screens and/or monitor multiple sites simultaneously for extended periods, Senstar video analytics provide effective, 24/7 automated monitoring.



- Intelligent threat classification:** Distinguish between people, vehicles, and environmental factors like moving vegetation or animals
- Weather-resistant detection:** Maintain accuracy in challenging lighting and weather conditions.
- Reduced false alarms:** Ignore shadows, insects, and vegetation movement that trigger traditional motion detection.
- Virtual zones and tripwires:** Create directional detection areas to identify approach patterns and entry attempts
- Sensor Fusion:** Eliminate nuisance alarms from perimeter sensors by enhancing them with Senstar's sensor fusion analytic.



Senstar's DNN-based AI analytics are optimized for security applications and support both visible light and thermal cameras.

VEHICLE MANAGEMENT

Managing vehicle access manually is time-consuming and prone to errors. Automated license plate recognition streamlines entry/exit procedures, maintains accurate logs, and integrates vehicle data into broader security systems.



- Gate control:** Trigger access systems based on authorized license plate lists.
- Multi-lane support:** Read plates across multiple lanes of moving or stationary traffic.
- Global compatibility:** Support for license plates from over 100 countries.
- Custom identifications:** Identify delivery trucks and fleet vehicles by unique markers.
- Searchable logs:** Quickly locate vehicle entries/ exits in archives.



Senstar ALPR supports license plates from over 100 countries as well as container identification and fleet markings.

INDOOR UNAUTHORIZED ACCESS

Interior spaces require specialized analytics that account for indoor lighting, reflective surfaces, and architectural features. Whether protecting server rooms or retail spaces after closing, indoor analytics provide reliable detection without nuisance alarms.



- Virtual alarm zones:** Define specific areas to monitor (e.g., closed kiosks).
- Loitering detection:** Trigger alarms when someone lingers longer than expected.
- Wrong-way detection:** Identify movement in unauthorized directions.



Alarm - Wrong Way Activity

Indoor video analytics track the movement of people and support a range of applications, including intrusion detection, wrong way detection, and loitering.

SUSPICIOUS PACKAGE AND ITEM DETECTION



Unattended packages in transit hubs or public venues pose security threats, while detecting removed items helps prevent theft..

- **Unattended object detection:** Identify bags/boxes left in public areas.
- **Theft prevention:** Detect removal of assets.
- **Emergency exit monitoring:** Ensure exits remain unblocked.
- **Logistics tracking:** Monitor arrival/departure of materials at loading bays.



Maintain public and employee safety by continuously monitoring areas for left objects and minimize inventory loss by detecting removed items.

BEHAVIORAL ANALYSIS AND OPERATIONAL INTELLIGENCE



Video analytics transform surveillance systems into business intelligence tools, providing insights into customer behavior, efficiency, and facility usage.

- **Heat map generation:** Visualize traffic patterns and high-activity areas.
- **Dwell time analysis:** Measure time spent in specific zones.

CROWD MANAGEMENT AND PUBLIC SAFETY



Overcrowding creates safety hazards and degrades customer experience. Real-time crowd monitoring helps maintain safe occupancy levels and regulatory compliance in public spaces.

- **Real-time people counting:** Continuous estimation of people in designated areas.
- **Capacity threshold alarms:** Alert when specific numbers are reached.
- **Occupancy percentage:** Track occupancy vs. maximum capacity.



Monitor areas and generate notifications when configured thresholds are exceeded.



Monitor activity within an area over time to better understand customer behavior.

IDENTITY VERIFICATION AND ACCESS AUTHENTICATION



Face recognition provides a biometric layer that verifies identity based on unique facial features, enabling two-factor authentication and automated access processes while identifying threats.

- **Two-factor authentication:** Combine with access cards for enhanced security.
- **Known offender alerts:** Immediate notifications for watchlist matches.
- **Robust performance:** Accurate recognition despite lighting, facial hair, glasses, or pose.
- **Liveness detection:** Prevent spoofing with photos/videos.
- **Forensic investigation:** Search historical video for individuals across multiple cameras.



Prevent access via credential theft via seamless, face recognition-based multi-factor authentication.

ENHANCE ASSESSMENT CAPABILITIES

During critical events, operators need to focus on assessment rather than camera controls. Automated PTZ tracking, tampering detection, and intelligent search capabilities dramatically improve response, resiliency, and investigation efficiency.

- Automatic target following: Hands-free tracking for PTZ cameras assists operators when responding to threats.
- Receive alarms whenever a camera is tampered with (obscured or moved)
- High-quality capture: Ensure detailed video of incidents while optimizing video storage.
- Forensic search: Quickly search historical footage by object type across cameras.
- Timeline filtering and summarizing: Export segments filtered by match score or event and generate summary videos of key events.



SUPPORT FOR THIRD-PARTY ANALYTICS (ONVIF®)



While Senstar video analytics are server-based, Senstar Symphony maintains an open architecture to ensure you have access to any analytics embedded on the cameras themselves:

- **ONVIF Profile M:** Senstar Symphony can process events and metadata generated by any ONVIF Profile M compliant edge analytic camera.
- **Centralized Alarm Management:** Third-party ONVIF alerts appear in the Symphony alarm log alongside native analytics events.
- **Flexible Deployment:** Mix and match Senstar's server-side analytics with specialized edge analytics on the same system.

The Senstar Advantage

Fully integrated into Senstar Symphony, Senstar video analytics provide robust, field-proven capabilities that integrate within your site's security posture.

BUILT INTO SENSTAR SYMPHONY

Senstar Video Analytics are natively embedded within the Senstar Symphony Common Operating Platform, eliminating the need for separate analytics servers or complex integration layers.

- **Server-side processing:** Leverage existing server infrastructure without requiring specialized edge cameras.
- **Metadata integration:** Analytics metadata is stored alongside video, enabling instant search and reporting.
- **Integrate with sensor data:** Combine analytics and security sensors with rules to create site-specific workflows.

PER-CAMERA, MOVEABLE LICENSES

Senstar offers a flexible one-time fee licensing model designed to maximize your investment and adapt to changing security needs.

- **Cost-Effective:** Purchase analytics licenses only for the specific cameras that need them, rather than expensive server-wide dongles.
- **Moveable:** Licenses are not tied to a specific camera MAC address. If you move a camera or replace hardware, the analytics license can be easily reassigned to a different video stream.
- **Scalability:** Start with critical areas and easily add more analytics licenses as your budget and security requirements evolve.

Part Numbers

Video Analytic	Part Number	Description
AI Object Detection and Tracking	S8SW6000	AI DNN-based object detection and tracking training for security applications
AI Thermal Object Detection and Tracking	S8SW6002	AI DNN-based object detection analytic trained on thermal camera input and optimized for security applications
AI Overhead People Tracking and Counting	S8SW6001	AI DNN-trained people detection analytic trained for tracking and counting applications
Sensor Fusion Engine	S8SW2091	Track, classify and synthesize raw data from multiple sensors. Licensed per camera.
Face Recognition	S8SW2081	Detect and recognize faces against a database. Licensed per camera (up to 5000 images)
Automatic License Plate Recognition	S8SW2061/ S8SW2071	Senstar Symphony ALPR peripheral video analytic + USB dongle. Price per bundle of 4 or 8 cameras.
Core Analytics	S8SW2051	All Symphony native video analytics except ALPR Peripheral and Facial Recognition. Includes ALPR Core). Licensed per camera.
Crowd Detection	S8SW2041	Calculate room occupancy levels. Licensed per camera.
Left and Removed Item Detection	S8SW2031	Detect left and removed objects. Licensed per camera
Outdoor People and Vehicle Tracking	S8SW2021	Detect and track people and vehicles in outdoor environments. Includes alarm zones and tripwires. Licensed per camera.
Indoor People Tracking	S8SW2011	Detect and track people in indoor environments. Includes alarm zones, tripwires, and people counting. Licensed per camera.