Risk Mitigation Through Security and Business Intelligence
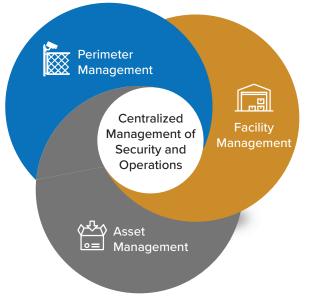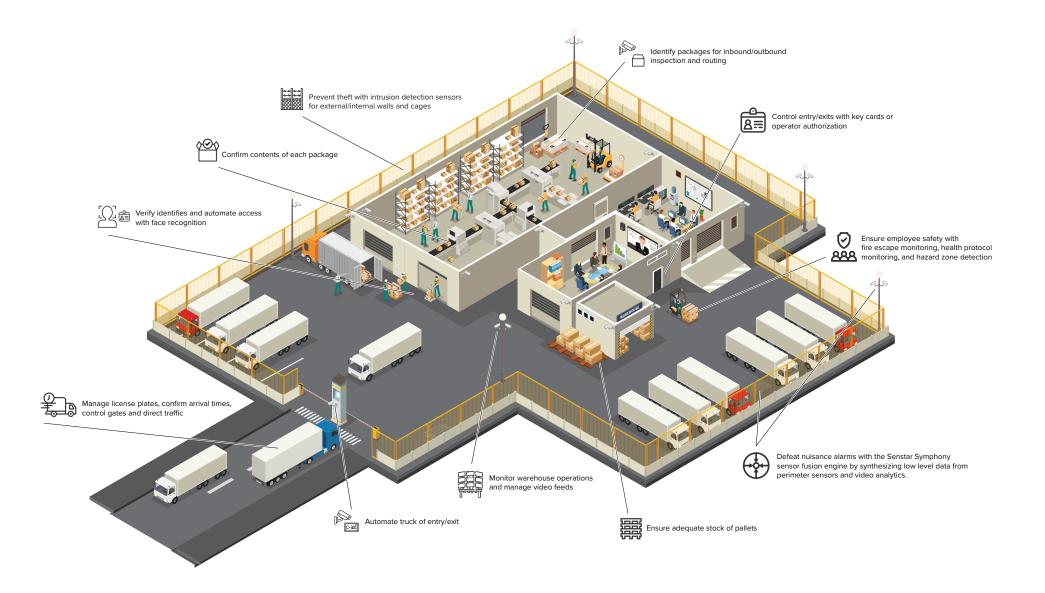
Warehouse, fulfillment and distribution facilities are critical to the operations of a company and require around-the-clock protection. To avoid disruptions and maximize productivity, organizations require solutions that reduce risk from both external and internal threats while providing insight into operations and business processes. By combining video surveillance with analytics, intrusion detection sensors, and data from logistics systems, organizations can see what is going on, detect abnormalities, and implement corrective actions.

Recognizing that different logistics operators face different security requirements, Senstar offers a wide range of video management, perimeter intrusion detection, access control, and video analytic solutions. Individually, they provide best-in-class protection; used in combination, they form an integrated, multi-layered solution.

Perimeter Management

Facility Management

Centralized Management of Security and Operations

Asset Management

SENSTAR'S PORTFOLIO OF VIDEO MANAGEMENT, VIDEO ANALYTICS, ACCESS CONTROL AND PERIMETER INTRUSION DETECTION PRODUCTS PROVIDES OPTIONS FOR MANAGING RISK AT LOGISTICS OPERATIONS

Identify packages for inbound/outbound inspection and routing

Prevent theft with intrusion detection sensors for external/internal walls and cages

Control entry/exits with key cards or operator authorization

Confirm contents of each package

Verify identifies and automate access with face recognition

Ensure employee safety with fire escape monitoring, health protocol monitoring, and hazard zone detection

Manage license plates, confirm arrival times, control gates and direct traffic

Defeat nuisance alarms with the Senstar Symphony sensor fusion engine by synthesizing low level data from perimeter sensors and video analytics.

Automate truck of entry/exit

Monitor warehouse operations and manage video feeds

Ensure adequate stock of pallets

Perimeter Management

Protecting the perimeter of a site is a first line of defense against theft and vandalism. Senstar perimeter intrusion detection systems (PIDS) provide early warning of unauthorized entry into secure areas and offer organizations the following benefits:

- Reliable and effective detection
- Low nuisance alarm rates
- Integration with deterrence devices (lights, sirens) and assessment devices (cameras, analytics, other sensors)
- Effective response to security events using critical information obtained from sensors and surveillance systems

Physical threats	Theft, vandalism, sabotage and trespassing
General deterrence practices	• Security lighting • Automated PA system • Perimeter signage and warnings • Overt video surveillance • 2-way intercoms at entrances

TACTIC	DETERRENCE	DETECTION	DELAY	ASSESSMENT	COMMUNICATION	RESPONSE
Cut, climb or lift fence fabric	Security fence or wall with outrigging Perimeter lighting PA system	Fence sensor Outdoor people tracking analytic	High quality and maintained security fence or wall	Surveillance system Security lighting 2-way intercom	Automated electronic notifications: - Email - SMS - Mobile app - Clients Site security events linked to specific procedures and contact information	Local security forces
Climb gate	Security gate with outrigging Perimeter lighting PA system	Fence or gate sensor Outdoor people tracking analytic	High quality and maintained security gate			
Break or bypass gate lock	Security hardware 2-way intercom Surveillance system	Fence or gate sensor Latch contact Outdoor people tracking analytic	Security hardware			
Tunnel under fence or gate	Below-ground fence structure Hardened surface (e.g. concrete) Surveillance system	Buried sensor Outdoor people tracking analytic	High quality and maintained security fence Hardened surface (e.g. concrete)			
Firearms and explosive devices	Ballistic fencing/walls	Outdoor people tracking analytic Audio sensors				
Ladder or other assisted climb	Security fence with outrigging Perimeter lighting PA system	Fence or gate sensor Outdoor people tracking analytic	High quality and maintained security gate			
Vehicle ramming	Security fence or wall	Fence or gate sensor Outdoor vehicle tracking analytic	Security fence or wall			
Elevated position perimeter crossing	Security fence or wall with outrigging	Outdoor people tracking analytic	Security fence or wall with outrigging			

Facility Management

Facility mangement encompasses many aspects related to the security, safety, and efficient operation of the facility. Senstar, with its innovative portfolio of access control, video analytics, security lighting, and intrusion sensors can help keep goods moving.

Physical threats	Theft, vandalism, sabotage and trespassing	
Operational risks	• Efficient movement and routing of vehicles • Complex access control requirements • Worker safety	
General practices	• Automated access control • Security lighting • Vehicle routing	• Health and safety monitoring/notification • Automated PA system

CATEGORY	OPERATIONAL REQUIREMENT / RISK	SOLUTIONS
Access control	Access via false or misappropriated credentials	Access control system 2-factor authentication Face recognition or other biometric system
	Passback detection	Access control system Face recognition or other biometric system
	Tailgating	Access control system ALPR video analytic
	Visitors /manual door override	Linked cameras with on-screen door controls 2-way intercom
Vehicle managment	Automated enter/exit	Automatic license plate recognition (ALPR)
	Gate routing	ALPR with delivery management integration
	Parking lot monitoring	Vehicle tracking analytic
Worker safety	COVID-19 protocol monitoring	Senstar Safe Spaces video analytics/appliance
	Fire escape obstacles	Left and removed object detection
	Pedestrian/vehicle accidents	People and vehicle tracking analytics
	Safety/night illumination	Instant-on perimeter lighting
Building security	Intrusion detection for walls	Wall-mounted sensor

Asset Management

By combining video surveillance with intelligent video analytics, security sensors, and data from manufacturing or logistics systems, organizations can monitor operations, detect abnormalities, and implement corrective actions.

Physical threats	Theft (external and internal)	
Operational risks	• Loss or damage of goods • Inefficiencies • Worker safety	
General practices	• Loss prevent strategies • Security lighting • Vehicle routing	• Health and safety monitoring/reminding • Automated PA system

CATEGORY	OPERATIONAL RISK	SOLUTIONS
Inventory security	Intrusion detection for cages with high value goods	Fence-mounted sensor
	Restricted area monitoring	Access control People tracking video analytic
	Cold chain verification	Thermal cameras with ONVIF temperature alerts
Warehouse operations	Palette threshold monitoring	Object tracking video analytic
	General monitoring	Video management system
	Package tracking	Time/location-based photo/video capture with linked package metadata (TCP Listener) Video search
	Package verification	Photo/video capture with linked package metadata (TCP Listener) Video search
	Package trace	Historical video search via package ID
	Employee activity	Activity heat maps

TAPA CERTIFICATION

The Transported Asset Protection Association's (TAPA) Security Standards act as a worldwide benchmark for supply chain security and resilience, providing guidance, processes and tools which reduce loss exposure, protect assets, and reduce the costs of cargo theft. TAPA Security Standards are respected globally as the best-in-class industry standards for supply chain resilience (tapaonline.org).

Senstar, with its broad portfolio of security, video management, and video analytic solutions, can help organizations meet TAPA requirements and obtain certification:

• Perimeter
• Outside walls, roof, and doors
• Office and warehouse entry and exit points
• Securiy systems: desgin, monitorng, and reponses
• Training and procedures
• Workforce integrity
• Self-assementment audit and risk assesssment
• Event records

TAPA
Transported Asset Protection Association

Centralized Management of Security and Operations

The Senstar Symphony™ Common Operating Platform with sensor fusion is a modular solution for video management, video analytics, security management, access control and data intelligence. Modules can be used individually, added when needed, or combined as a complete integrated solution. Highly cost-effective, Senstar Symphony is licensed per security device (camera, door, or sensor). All managed devices report to a shared rules and alarms management system, enabling operators to perform site security or operational functions from a 'single pane of glass'.

INTELLIGENT VIDEO MANAGEMENT

An open platform, Senstar Symphony supports cameras from all major vendors and easily scales to any size. With intuitive operator clients, simple per-camera licensing, and built-in high availability, it is the ideal high-performance video management solution.

- Scalable, high-performance architecture
- Open ecosystem
- Easy to use operator interfaces
- Browser-based administrator client
- Centralized cloud management
- Privacy and security

AI-POWERED VIDEO ANALYTICS

By leveraging existing video surveillance infrastructure, Senstar Symphony video analytics are a highly cost-effective means to augment security with new detection capabilities, direct attention to key events, automate access control and other facility functions, and collect data on customer behavior.

- Intelligent search and investigation
- Moveable between cameras
- Future-proof with edge analytics

INTEGRATED INCIDENT AND ALARM MANAGEMENT

A full-featured security management system (SMS), Senstar Symphony delivers a consolidated view of incidents from any source, including intrusion sensors, video analytics, access control, and other security devices. Its visual, map-based interface provides a streamlined user experience for operators handling everything from daily routines to crisis situations.

- Streamlined map-centric interface
- Complete sensor integration
- Complete alarm and event management
- Customizable for your environment

UNIFIED ACCESS CONTROL WITH VIDEO SURVEILLANCE

A complete access control system, Senstar Symphony supports industry standard hardware and fully integrates access control events with video and alarm management.

- Integrated operator interface
- Cardholder histories
- Access zones, levels and schedules
- Full-featured adminstration client
- Unified, seamless integration

OBTAIN OPERATIONAL INTELLIGENCE

By combining video surveillance with analytics, security sensors, and data from manufacturing or logistics systems, organizations can monitor operations, detect abnormalities, and implement corrective actions.
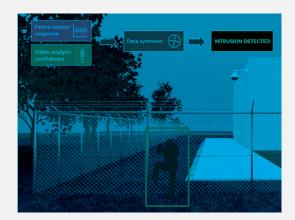
- Monitor trucks and other vehicles
- Track packages and containers
- Link video to process events
- Monitor operations
- Empower employees

SENSTAR'S SENSOR FUSION ENGINE

The Senstar Symphony™ Common Operating Platform's sensor fusion engine synthesizes data from separate systems to generate actionable information.

More than just a simple Boolean logic integration, the sensor fusion engine accesses low level data to intelligently characterize potential risks. Data synthesis enables the system to achieve levels of performance that exceed those of the individual sensors.

For security applications, this has direct, practical benefits, namely the ability to maximize the strengths of individual sensor technologies while avoiding their shortcomings. When signal response data from outdoor sensors is synthesized with video analytic data, nuisance alarms generated by wind or debris are virtually eliminated while maintaining the system's high probability of detection.

info@senstar.com • senstar.com