Enhanced Video Solutions for Transport & Logistics
Video surveillance is a fundamental building block of robust safety and security systems and has helped many businesses to mitigate their most pressing internal and external risks. Video surveillance is a key component of logistics facility security, both inside and outside.

It is a common challenge for the logistics market to cope with the fact that current security and video capabilities can be resource intensive and time consuming. Being able to integrate all of their buildings and outdoor sites into an easy-to-manage system is of critical importance. Logistics facilities require that all security solutions are able to track people, cargo items and parcels, to monitor sensitive areas, safety fences and high rack storage, and to follow-up on trucks and cars.

Tyco’s all-around safety solutions cover all areas of security – from fire detection to fire suppression, from access control to intruder detection, from video surveillance to video analytics. With our Physical Security Information Management (PSIM) software we integrate existing legacy systems into a unified, state-of-the-art management and control system that builds situational intelligence and makes decision processes easier.

Leveraging the full capabilities of video technology

Tyco is at the forefront of bringing Enhanced Video technology to the market – whether in image quality, storage capacity, processing and analytics, hardware or software. That allows companies to automate much of the manual effort and establish workflows. Enhanced Video Solutions help logistics managers protect what matters most: people, assets and the goods of their customers.

Tyco offers varying levels of integration, including multiple surveillance products along with software and business applications. Today’s intelligent systems can manage real-time visual information from virtually any location at any time. Digital advances such as IP-based connectivity allow organisations to monitor and document events in great detail and provide a level of organisational awareness and control that was previously unimaginable.

Our consultative approach offers all-around video technology systems tailored to the customers’ needs:

// Enhanced Video Solutions
// Video surveillance
// Thermal cameras
// High resolution cameras
// Video analytics
// 24/7 monitoring
// Remote control

These advanced technological capabilities improve security significantly. Key areas addressed include:

// Motion detection
// Automatic license plate recognition
// Integration of RFID tracking (parcels, cargo)
// Event notification
// Alarm verification
// Video guarding
// Video Surveillance as a service (VSaaS)
// Security for unattended deliveries
Enhanced Video Solutions for pro-active detection

Enhanced Video Solutions elevate security and information while easing the workload of security personnel. This helps them to watch less, but know more – and significantly improve security.

Enhanced Video Solutions expand video surveillance systems with automatic real-time event detection, post-event analysis and extraction of statistical data. They provide our customers with intelligent video analytics and fully automated video monitoring, allowing them to become pro-active users, while decreasing personnel costs and increasing the effectiveness of security operations.

There are multiple aspects to securing a logistics facility and the goods it stores:

// Perimeter and site intrusion
// Suspicious behaviour and activities
// Loitering at car parks and buildings
// Access to sensitive areas
// Burglary
// Sabotage and espionage
// Blocked emergency exits
// Blocked emergency lanes
// Sensitive machinery or controls
// Personnel emergencies

Our Enhanced Video technology allows security staff to automatically identify security threats from huge volumes of data. Tyco offers these systems to ensure our customers can:

// Automatically detect and identify objects and subjects
// Reduce false alarms
// Keep track of vehicle and personnel count
// Integrate the tracking of goods
// Identify events of interest or suspicion
// Rely on the stability of the overall system, which results in more actionable information
// Remotely monitor from anywhere

Video analytics with fully automated monitoring

Intelligent video analytics automatically tracks and identifies objects, analyses motion and extracts video intelligence from analogue, digital, or IP video streams. These analytics can output real-time events and object data for video data mining or storage in a database. At the core of the solution are the video recorders, which automatically analyse real-time events. After mining the data, they provide the operator with additional information on his/her screen or send it to data storage. Video analytics can be integrated into other security and information systems to create new opportunities.
Our analytics recorders use one small server software application (Windows, Linux, Edge, VMware) and offer a simple license change to add features or increase cameras. Integrating data from other sources helps, for example, to track and protect cargo. Scan details of each item flow into the video analytics recorder so that items can be visually tracked if they have been lost. The system’s independent server operation ensures high reliability and unlimited scalability.

Getting the most out of video analytics software today requires the best technology at the beginning of the security value chain. Tyco offers standard video platforms and adds state-of-the-art video technology, such as highly efficient video recorders, analytics recorders or high resolution and thermal cameras.

**Thermal cameras** not only outperform visual cameras in dark conditions, but are also a great tool for 24/7 surveillance, detecting people and objects in the pitch dark or on a sunlit parking lot. Thermal cameras are an excellent complement to existing video surveillance installations as they expand the system’s automatic video analytics capabilities. They can trigger other devices and actions such as sending an alarm to an operator, turning on flood lights, or triggering a regular camera to retrieve visual information on the incident. Thermal cameras can also be used for perimeter and area protection (e.g. thermal fences), providing discreet and cost-effective detection, enhancing building security and emergency management.

**Ultra-high resolution cameras** can enhance existing video installations. With automatic number plate recognition and auto tracking capabilities, trucks arriving at entrance gates and car parks can be automatically detected and observed. For unattended delivery, the video analytics software includes a black/white list with remote monitoring. Other cameras can automatically detect abnormal activity, such as opened or blocked emergency exits, injured or downed persons, loitering, stopped vehicles in emergency lanes, etc. with video analytics and real time event verification.

**Benefits for our customers**

With Enhanced Video Solutions, our customers benefit from more efficient security operations and more effective asset protection.

Tyco’s complete packages offer many advantages for the customer:

- More information, less work
- Improved situational awareness
- Integrated and proactive solutions
- Pro-active protection and prevention
- Fast crime detection
- Reliable perimeter protection
- Reliable surveillance of high rack storage and deliveries
- Less parcel and cargo losses
- Reduced guard costs
- Simplicity, ease of use
- Protection of investment

**Our products (selection):**

- Video management systems
- Video analytics
- Licence plate recognition
- High resolution cameras
- Low-light technology cameras
- Thermal cameras
- PSIM Integrated solutions

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Tyco leveraged the existing infrastructure with a combination of high-resolution cameras, illuminators and thermal imaging cameras on the perimeter fence, at the entrance gates and along the building. The information from these cameras are fed into our Enhanced Video Solutions system that include:

// Automated video analytics
// Integrated access control data
// Integration of RFID tracking of parcels with visual verification
// Automatic number plate recognition
// Thermal cameras on the perimeter fence
// Ultra-high resolution cameras for container park

Tyco delivered a proper perimeter protection in combination with improved situational awareness with 24/7 protection and real-time verification of events. The customer can now command and control its entire security system with fewer personnel and minimized liability.