

Enterprise RAID Protection & Advanced Video Management Safeguard ILS Warehouse

Video surveillance systems play a vital role in distribution center and warehouse security. As trucking and freight distribution centers grow and the number of incoming and outgoing trucks increases, so do the opportunities for theft, fraud, injury, and costly inefficiencies. With Surveon's total surveillance solutions including advanced megapixel cameras, professional yet easy to use RAID NVR, and enterprise video management, the security team for the warehouse of ILS is better equipped to monitor the entire premises and optimize the daily operations.

Customer

The logistics company ILS is a subsidiary of Inter Cars SA, the largest automotive spare parts distributor in Central and Eastern Europe. With a 25,844 sq.m. warehouse in Sosnowiec, every single day ILS deals with material handling, packaging, inventory, transportation, warehousing, and the most important of all, security. Because security is of paramount importance, ILS requires a comprehensive and intricate surveillance solution with high efficiency and reliability to well manage security of its vast and lofty warehouse.

Challenges

The biggest challenges for this project were its complex operations and the spacious monitoring area. "Owing to the enormous space, we needed 24/7 video surveillance of this 25,844 sq.m. warehouse including outside yard and street entrances to achieve as close to full coverage of the entire interior as possible to improve the safety and security of personnel, truck traffic, loading procedures, and other activities. For video recording, we needed a system that was reliable, easily expandable, offered built-in data protection, and would be large enough to store 30 days of recorded footage. As for management, we were looking for an ease of use, smart, and centralized system so that our staff can handle security more efficiently and effectively," said the security project manager of ILS.

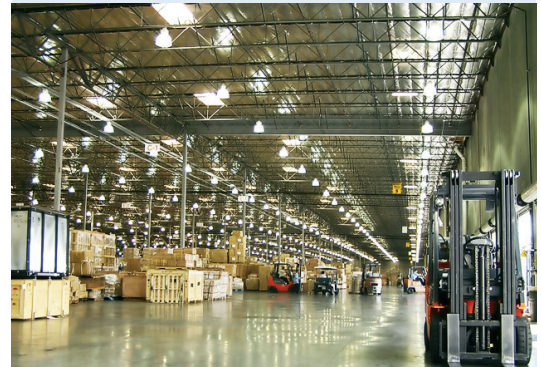
Solutions

Surveon Megapixel Cameras with Smart Image Optimizers

The main entrance, truck doors, warehouse bays and the floor space are the key monitored sections in the warehouse. Over 150 of Surveon's megapixel cameras are deployed in these locations, including CAM3461LV 3 megapixel WDR outdoor bullet cameras, CAM4461LV 3 megapixel vandal-proof dome cameras, and CAM6351 2 megapixel 20x zoom speed dome cameras.

Surveon 3 megapixel cameras provide 1.5 times wider images compared to conventional 2 megapixel cameras and thus fewer cameras are required to cover a large area. Using the IP66-rated weatherproof speed dome cameras with 360° high-speed pan and tilt, users can easily direct the cameras to monitor any desired area, and as many as 256 arbitrary preset positions can be added for patrol monitoring. A 20x zoom can also be used for detailed monitoring.

With the smart image optimizers, Surveon cameras can analyze lighting changes and automatically adjust the image functions to ensure clarity can be obtained under different lightings. The Smart Shutter can capture precise images of fast-moving objects by adjusting the shutter speed automatically to avoid captured images going blurry or dragging.



Summary

Customer:

ILS, a logistics company in Poland.

Project Needs:

- Excellent image quality under different lighting.
- Wider coverage with fewer cameras.
- 24/7 megapixel recording for 30 days.
- High data protection with no video loss.
- Easy video management and multiple accesses.
- High efficiency and active management.
- System stability and reliability.

Surveon Solutions:

Highly integrated solutions with the following:

- CAM3461LV 3 megapixel WDR outdoor bullet.
- CAM4461LV 3 megapixel vandal proof dome.
- CAM6351 20x zoom Full HD outdoor speed dome.
- NVR3308 megapixel RAID NVR system.
- Surveon enterprise VMS and real-time VI.

Surveon Solution Benefits:

- Certified end to end solutions, from cameras, NVR, VMS, to storage.
- 60-day non-stop megapixel recording.
- RAID NVR ensures reliability and zero frame loss.
- Remote monitoring and centralized management.
- Real-time VI detections and smart investigation.
- 100% in-house design and production.
- 3 -year warranty.

The Smart Auto Exposure automatically adjusts the exposure based on a targeted area to bring out the proper exposure for the overall image, and the Smart Auto Focus allows users to apply auto focus on a targeted area, showing the clear image of the region that really matters. Surveon cameras also offer ROI (Region of Interest). Users can create up to eight independent regions, each with different video quality and frame rate, saving up to 30% of the network bandwidth.

Surveon Professional Megapixel Recorders

Designed as the professional standalone RAID NVR, Surveon's NVR3000 series provides the ILS security team a simple, affordable yet professional megapixel solution. The Linux-based system features compact, all-in-one professional design, plug & play easy deployment, up to 8 HDD storage capacity, built-in RAID 1, 5, 6 data protection, and maximum 64 channels of Full HD recording. Furthermore, the NVR3000 series is 100% designed in-house and manufactured on Surveon's ISO 9001 and ISO 14001 certified production site to ensure the highest quality and reliability.

Surveon Enterprise Video Management

The NVR3000 series is preinstalled with the Surveon VMS that incorporates plenty of advanced functionalities and simplifies the usually complicated video management. The enterprise features include large data backup and archiving, remote data retrieval, real-time analytics, local live view, instant playback, fisheye dewarping, PIP, multiple displays, mobile client, video bookmarking, remote monitoring, centralized domain management, and more. Controls can be done in the same straightforward principle whether logging in locally or remotely, which is extremely useful in the spacious warehouse like ILS.

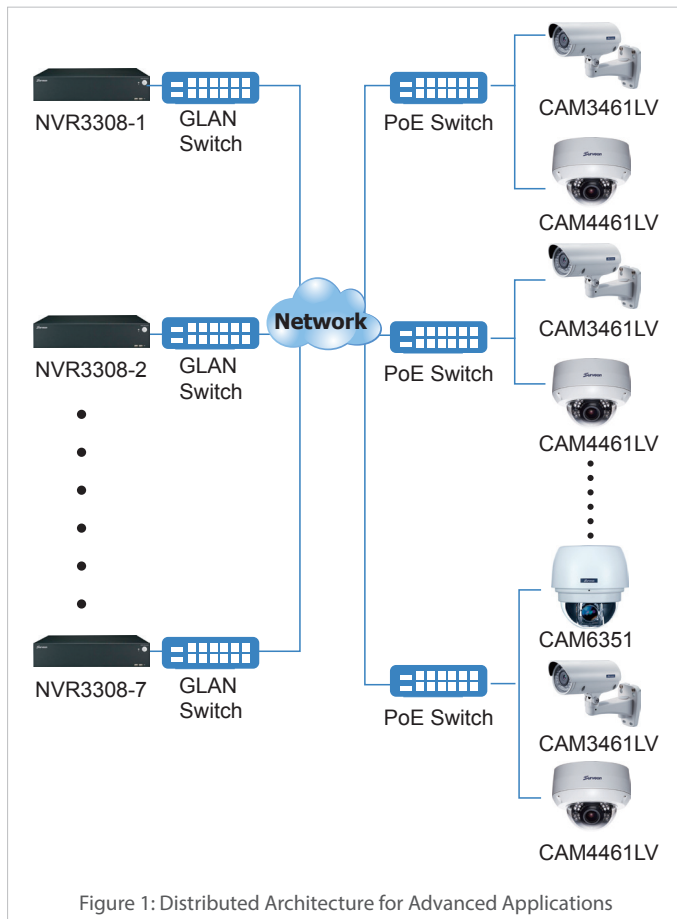


Figure 1: Distributed Architecture for Advanced Applications

The Surveon real-time video analytics transforms passive monitoring into a proactive surveillance system that really lives up to ILS's expectations. The basic Motion and Tampering detections can be used for general security; while the Missing Object, Intrusion, Forbidden Area detections are designed for detecting potential risks. The advanced functions, such as Virtual Fence, Going Out, Tailgating, and Object Counting can be applied for strengthening ILS's operation efficiency.

Benefits

Excellent Image Quality

With the smart image optimizers, the Surveon megapixel cameras deliver the excellent image quality and wider coverage. In addition, the lower bit rates and advanced ROI can reduce the network bandwidth and storage demand required for megapixel surveillance, keeping a good balance between image quality and bandwidth. As a result, the ILS warehouse is fully monitored, using fewer cameras to help deter crime and detailed evidences are being collected, providing a safe environment for the daily operations.

Trustworthy Data Protection & Intelligent Management

Built-in with enterprise RAID protection, Surveon's NVR3000 series ensures non-stop megapixel recording with reliability to prevent any video loss. Paired with the Surveon VMS, the solution not only improves safety and security, but reduces theft, fraud and costly inefficiencies, optimizes warehouse design and traffic flow, and therefore business intelligence can be enhanced. The video analytics also provides early alerts to incidents needing attention of security personnel and relieves staff from having to watch monitors for hours for any possible criminal activities or abnormal events.

In addition, whether users are in the security office, around the corner, at the opposite end of the building, or on the other side of the country, the Surveon VMS offers multiple accesses that allow them to easily monitor the entire site both locally and remotely, on the web, or on the go using their mobile phones or tablets.

"Our facility at this strategic location in Sosnowiec plays a key role in facilitating the ongoing development of our logistics operations in the region; security is definitely one of the most important things for us. We are glad to choose Surveon to safeguard our warehouse and distribution center since they have met all of our expectations and delivered an advanced and efficient solution that is tailored to our needs," said the security project manager of ILS.

About URKOM

Established in 2000, URKOM specializes in comprehensive delivery of IT solutions and professional video surveillance systems for small and medium-sized enterprises and large corporations.

About Surveon

Surveon Technology offers end-to-end network video surveillance solutions that showcase our expertise in professional camera design, RAID NVR, high availability video storage, embedded firmware and video management software. All Surveon products are designed in-house and manufactured on our ISO 9001 and ISO 14001 certified production site to ensure the highest quality for our partners.