

Deployment of Axis network cameras helps to optimize production.

From four simple cameras to a robust solution at ZAMPRA.



Organization:
ZAMPRA spol. s.r.o.

Location:
Czech Republic

Industry segment:
Industrial

Application:
Safety and security

Axis partner:
TINT s.r.o.

Mission

At the beginning of the project, there was a requirement for a simple analog camera system to monitor a hired property. The individual terms included simplicity of operation, system clarity, easy allocation of user rights, the fastest possible searching for records, easy installation and low requirements for further infrastructure.

Solution

A small camera system was designed with a total number of just four camera points, but with the option of prospective expansion in years to come. ZAMPRA did not have a clear idea whether to choose a cheaper analog or more expensive IP version of a camera system. Eventually, the system integrator and Axis partner, TINT, chose the IP option in the form of Axis network cameras. In the end, the foresight in deploying IP cameras from Axis enabled fast expansion of the system in the period of subsequent great corporate expansion.

Result

The start of the system dates back to 2009, when the integrator deployed the first four IP cameras, namely AXIS 209FD Network Cameras. Today, ZAMPRA uses 45 cameras, which considerably facilitate the acquisition of evidence to prove criminal activities or accidents due to infringements of safety at work. Furthermore, the digital camera system enables monitoring of yield in production and the observance of production processes. Since the launch of the camera system, there has been a demonstrable increase in production quality, growth in production and a reduction in work injuries and unreported absences in the workplace. So far, the camera system works independently, but for the future, connection with other systems is being considered.

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Tomáš Dřízga, Material Purchasing Manager at Zampra.

ZAMPRA is a prosperous engineering company of international scope with a history dating back to 1992. The requirement for a camera surveillance system took shape based on the speed the business was developing and the necessity to guard the premises hired at that time more efficiently. After deployment of the system, the Axis IP cameras also quickly proved themselves in other areas.

An integral part of the business activities are, e.g., in-house research and development, construction and testing of the produced devices. This is where the cameras asserted themselves in monitoring observance of safety at work and specified work processes; the number of work injuries and unreported absences in the workplace has also decreased. Now that ZAMPRA manages its own large premises today, the camera system is being further expanded and other options are being considered, such as connection to an access control system (at the moment, the AXIS A1001 Network Door Controller is being tested).

Camera selection

The key requirement for camera selection was overall simplicity of operation, which would go hand-in-hand with clarity of the whole system, the fastest possible searching for records and easy allocation of user rights and access to specific cameras. Very simple installation and minimal demands for further infrastructure were among the other requirements. This is why the integrator started to look at IP camera systems and eventually decided to start building a camera system with highly autonomous cameras from Axis. The first installed cameras were AXIS 209FD Network Cameras, while the number of cameras used by ZAMPRA had grown more than tenfold since 2009.

“Today, the company has 45 cameras installed in the system, all of them from Axis. Among the most popular are the AXIS M3007 and AXIS M3027 Network Cameras, which are positioned as overview cameras in production halls and monitor yields of individual machines. With regard to outdoor cameras, AXIS P1355-E has proven to be very competent. For the whole time of operation, the company has not recorded a situation where any camera would have to be replaced, despite the fact that some cameras operate in a very dusty environment,” adds Pavel Mohyla from TINT.

Benefits of integration

At first, the camera system was installed mainly for traditional security reasons, such as protection of the perimeter and theft prevention. However, very soon it turned out that the exceptional optical quality and software possibilities of the cameras, such as easy searching for records, made it possible to efficiently use the cameras for other activities that greatly optimize operations in production.

For example, since the launch of the camera system there has been a noticeable increase in overall quality of production, growth in production while maintaining the same production capacity, and a substantial reduction in the number of work injuries and even unreported absences in the workplace. The submitter mostly values the significant speed and simplification of acquiring evidence to prove criminal activities, breach of safety at work or non-observation of work procedures. For the future, TINT and ZAMPRA are considering utilizing the software layer of the cameras for the detection and recognition of vehicle number plates on the premises and their subsequent recording in a database for further processing.

