Optimizing the production process and improving security for Sunimprof Rottaprint.

Efficiency and security benefits using Axis Communications' technologies.

Organization:
Sunimprof Rottaprint

Location:
Cluj Napoca, Romania

Industry segment:
Industrial/Manufacturing

Application:
Safety and security

Axis partners:
Starnet, Milestone

Mission

With over 18 years of experience in the printing market, Sunimprof Rottaprint is the largest flexographic printer of self-adhesive labels in Romania. Thanks to its modern flexographic technology and comprehensive experience, Sunimprof Rottaprint offers a wide range of self-adhesive labels, printed and unprinted. The company wanted to find a solution that could improve safety and efficiency and eliminate human error at its two production halls in Cluj Napoca, which employ over 150 people.

Solution

Sunimprof Rottaprint needed a system capable of covering both the outside and the inside of the two production halls, approximately 5700 sqm. The optimal solution was to use 40 Axis network cameras with dedicated cameras to monitor each printing machine, the outer perimeter of the facility, the gateway and the parking area.

Result

With the help of Axis' superior products, Sunimprof Rottaprint received the perfect instrument to optimise its production process and the security at its facility. The surveillance system consists of two types of installations, one indoor and one outdoor. The indoor system, composed of dome cameras, improved the production process by eliminating worker downtime and incorrect equipment operations. The outdoor system ensures security by monitoring the outdoor traffic, pedestrians and cars. The entire solution is scalable, with multiple possibilities for further development. In fact, the scalability feature was one of the main reasons the client chose Axis.

AXIS COMMUNICATIONS

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In its 18 years of activity, Sunimprof Rottaprint has strengthened its market position by offering a wide variety of services. Using the most modern flexographic printing machines, the company offers its client's labels featuring embossing, gold foils, screen-printing, special inks printing (tactile, scratch, thermochromic, etc.), verso printing, etc. In addition to the production line located in Cluj, the company has three logistics warehouses in Romania (Timisoara, Bucharest and Pascani) and one logistics warehouse both in two Hungary and Germany.

Aiming to streamline its production and secure its two printing halls, Sunimprof Rottaprint chose to implement an Axis surveillance solution, composed of 40 cameras. Starnet, a system integrator established in 1998 and specialized in solutions and intelligent security systems, safety and IT networking, designed the security architecture. Starnet's high-performance is ensured by its team's expertise, developed over hundreds of complex project implementations.

Axis technical superiority

Sunimprof Rottaprint needed a tailor made solution that was easy to use, easy to maintain and scalable, to streamline its production process by identifying human and technological errors. The managers also wanted to be able to use the system for security, so it needed to offer efficient monitoring of the indoor and the outdoor spaces. The VMS software, Milestone xProtect®, offered the much-needed high level of scalability. Milestone was also chosen because of its cutting edge technology, which is easy to manage, reliable and proven in thousands of customer installations, providing flexible choices in network hardware and integrations with other systems. Another feature that was important for this installation was the fact that Milestone XProtect video management software (VMS) is based on a true open platform, which means it has a published application programming interface (API), allowing developers to alter the functionality of XProtect. The Milestone open platform allows the customer to add in time custom, best-in-class security solutions to their surveillance.

A glance at the cameras

The outdoor IP surveillance system was installed to reduce and deter theft and to allow security guards to more efficiently protect the building and its surroundings. To secure the parking and pedestrian areas, several FullHD AXIS P1425-LE Network Cameras with varifocal lenses were installed. This camera model was selected because of its ability to offer high-quality images in any lightning condition; its Corridor Format support and ability to function at temperatures ranging from -30° to 50° C were also important.

For the indoor surveillance, Starnet installed a mixed solution able to survey the warehouses, corridors, production area and reception. To monitor the production line and eliminate human technological errors, AXIS M1145-L Network Camera was chosen. Improper use of the paper rolls, which causes misalignment, is the most common human error the client faced. Other errors occur when the printer becomes misaligned due to paper jams, clogged or dirty printer cartridges, or improperly installed printer cartridges. AXIS M1145-L's varifocals lenses, which allow users to zoom and focus rapidly to detect problems, made this camera an easy choice.

For the warehouses and corridors, several AXIS M3105-L Network Cameras were installed. This discreet and flexible camera uses Zipstream, PoE and WDR technologies (providing excellent detail regardless of lighting conditions) and also has a viewing angle of 115 degrees, horizontally.

Conclusion

Pleased with the performance of the surveillance system, Sunimprof Rottaprint is also considering similar developments in its other locations, including a system that will allow interconnectivity between the production halls. After the IP surveillance system was installed, all the machines have worked at full capacity, without any downtime caused by misalignment or poor operator usage.