Axis surveillance solution optimizes logistics at Radumlya distribution center.

Video management with facial recognition prevents incidents and ensures safety of visitors and goods.

Organization:
Radumlya

Location:
Moscow, Russia

Industry segment:
Transportation

Application:
Safety and security

Axis partners:
NTC, Briefcam, Milestone, Herta Security

Mission

New high-tech agricultural goods logistic and distribution center Radumlya with a total area of 700,000m² renders storage, trans-shipment and distribution services for large product batches. Apart from warehouses the center will have hotels, administrative and service buildings, product processing and handling complexes. The site rooms up to 5,000 people at a time. Since there is no access control system in the territory of the center, video surveillance system ensures the in/out monitoring, safety of the visitors and goods, issues warnings, helps to prevent, avoid and investigate incidents and thus is even more meaningful.

Solution

The distribution center video surveillance system consists of about 60 Axis PTZ- and multi-sensor IP cameras (AXIS M30, AXIS P14, AXIS Q37, AXIS Q61) installed inside and outside the buildings, while the plan is to install 127 cameras.

The system is integrated with Milestone, Herta Security and BriefCam software solutions and provides the complete compatibility of all the elements: facial recognition, video management and time compression technologies. The cameras also support such functions as guard tour and Axis Zipstream technology.

Result

With automatic incident detection security staff can quickly respond to any incident. The recorded videos are stored in an archive for at least 30 days. The distribution center management team can use the remote access to video surveillance system to view both the video archive and the live video. Apart from securing the warehouse, security cameras with video analysis software help to optimize logistics and prevent transport downtime – in other words, they play an important role in distribution center business processes.

AXIS COMMUNICATIONS

"**Axis cameras were selected due to the following factors: the best TCO combined with Milestone software, exceptional detail, resolution, frame rate and other properties as well as high fault tolerance.**"

Pavel Dobzhinsky, Director General of Radumlya wholesale distribution center.

Before deployment

Close collaboration between the customer and Axis integration partner made a great contribution to successful project deployment at Radumlya distribution center. It was the integrator who helped distribution center management to draw up specification and recommended to leave behind outdated and inefficient solutions that require more cameras in favor of auto-mated video analysis capabilities.

During the site pre-feasibility study the work team drew up the site plan, specified the surveillance areas, defined potential threats, light sources, fields of view, low light areas, speed of supervised targets and their assumed activity in the image. In addition, they laid down the system requirements (alarm, monitoring, record, export and data archiving), defined areas of responsibility for employees, system operation parties, made up incident response scenarios and carried out the equipment verification tests on site. With all this information the center could match the best system configuration.

Before deployment, the experts also considered the system capabilities for integration, expansion and modernization as well as TCO minimization.

Optimized solution

AXIS Q3708-PVE multi-sensor Network Cameras were installed inside the building and outside in the territory of the complex. They were used for large area surveillance to prove the efficiency of the deployed video surveillance system. Camera wide viewing angle minimizes the number of blind spots, while high level of detail (total 15 Mp for 3 image sensors) and frame rate provide recognition of all the necessary objects and appropriate theft investigation.

The cameras use only one network connector - this greatly cuts the network infrastructure costs. More-over, Axis cameras need only one video management system license. Thus, the TCO of such a solution appears to be the lowest among the market offers.

Recognition

The main challenge in this project was to select the cameras offering the best facial recognition and the respective software to be easily integrated into the video management system. AXIS Q16 PTZ Network Cameras with two Herta Security software licenses are used in the turnkey solution for biometric data aggrega-tion and automatic guard tour on site, at the entrance and inside the buildings. All the mentioned video cameras offer situational awareness and serve to help security office operator to recognize and identify certain objects in more details.

The whole territory of distribution center is split into areas according to the targets, risks and threats that may occur in these areas. For example, when a multi-sensor video camera detects an incident, the system identifies the time and place and involves more cameras (AXIS Q61 PTZ or AXIS P1435-LE and AXIS M3045-V Network Cameras) to track the object and recognize the faces of all the participants. Therefore this system efficiently prevents thefts and maintains the discipline.

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