CASE STUDY

Sungshin Women's University upgrades campus security to IP-based video surveillance.

Axis network video take the university's security system to new heights thanks to easy installation, efficient management and Power over Ethernet.

Organization:
Sungshin Women's University

Location:
Seoul, South Korea

Industry segment:
Education

Application:
Campus security

Axis partner:
UNnet Systems

Mission

Established in 1963, Sungshin Women's University has been continuously working towards future-oriented educational principles as well as updating deteriorated campus facilities for a safer and better environment. From a security standpoint, the University uses a video surveillance system to protect school assets and students as well as to prevent occasional theft, and more specifically theft of valuable material from the library. This existing system, operated with analog cameras and DVRs, showed limitations when the university considered expanding campus surveillance. The University wanted to take advantage of the campus' existing network infrastructure, to avoid additional cabling constructions. Thus, the university decided to shift to an IP-based solution.

Solution

The IP-based video surveillance system was introduced utilizing only network cables without additional electrical work required, by using PoE (Power over Ethernet) technology. PoE enables the transmission of power and video via the same network cable, thus lowering installation costs and offering efficient system management.

Already possessing campus network infrastructure by Cisco, the University deployed a total of 42 Axis network cameras and 20 Axis video encoders with just additional costs for network hubs and wireless LAN equipment. Indoor areas were equipped with AXIS 216FD Network Cameras, while parking lots were equipped with AXIS 211 or AXIS 221 Network Cameras, according to light conditions. Outdoor areas featured AXIS 215 PTZ and AXIS 211 Network Cameras. All cameras, except AXIS 215 PTZ, utilize PoE, reducing costs and also completing installation in a shorter time frame than in the case of installing additional analog cameras. Operating programs were installed separately according to the building location with Blackhound 16- and 25-channels for monitoring, allowing supervisors to view video anytime and from anywhere.

AXIS COMMUNICATIONS

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"As network cameras are being introduced for the first time, the stability and credibility of the system was the primary consideration. Axis provides various types of network cameras and has great local and global recognition, making it a trustworthy choice."

Lee Min Gu, Head Director of Sungshin Women's University video security.

Result

The existing analog system generated compatibility problems between products when adding new analog cameras as needed. The Axis network video solution solved that issue, offering full compatibility and interoperability, thus ensuring time savings and higher work efficiency with a 24-hour surveillance system not requiring many supervisors – thus avoiding manpower loss due to compatibility problems for instance.

Additionally, with the introduction of the network-based video surveillance system, emergency measures can now be taken even during the absence of supervisors or in urgent situations. The location where the camera is installed can be monitored in real-time from remote positions for prompt response to accidents or incidents. Especially, the student union building which is used by students round-the-clock can be monitored and managed when problems occur at nighttime, thus enhancing the sense of security.

Lee Min Gu, head director of Sungshin Women's University video security, stated about the efficiency of the new system, "Because the video surveillance system can now be managed remotely, the work efficiency of supervisors has increased by 30% as other tasks can be dealt with in the time which was required for mobility and other operative measures. In particular, as real-time measures can be taken in urgent situations just through unmanned video surveillance, costs for administration and operation can be reduced by up to 20%."

Efficient usage of storage space

As the analog cameras used before did not selectively record images when incidents or accidents occurred, they needed to continuously store recorded video, requiring massive space for storing data. On the contrary, network cameras use their motion detection functions to only store necessary data which enhances storage efficiency as well as simplifies the overall system structure. In addition, high resolution images are provided, which enables distinctive analysis of recorded material for more accurate information and identification, yet another benefit acquired after deploying the new IP-based system.

However, the storage of these high resolution materials can sometimes create concerns relating to the violation of privacy rights. About this, director Lee mentioned, "Of course principles for managing recorded video need to be defined. Sungshin Women's University can operate the video surveillance system without concerns on video outflow thanks to the strong security features of Axis network cameras."

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