

Daejin University creates safer campus around the clock.

Campus blind spots removed by Axis' Lightfinder technology and user-oriented interface.



Organization:

Daejin University

Location:

Pocheon City, Korea

Industry segment:

Education

Application:

Safety and security,
remote monitoring

Axis partner:

C&S Information
Networks

Mission

As Daesun Jinrohoe university campuses, in Pocheon City, Korea, are open 24 hours to anyone, they are vulnerable to accidents and crimes. Based on the judgment that the existing analog system was quite inadequate to monitoring the vast campus, Daejin University decided to introduce a high-resolution video security system so that students could walk around the campus and focus on their academic work without worrying about personal security.

Solution

The security cameras installed in the far-flung buildings across the campus of Daejin University were low resolution and difficult to manage because they were connected through coaxial cables. Their TCO (Total Cost of Ownership) became untenable. Because of the data storage space, the system had to reduce the number of days for recording or deteriorate the image quality.

To address the problem, Daejin University decided to introduce an IP-based system that offered superior image quality under low-light conditions, night-time facial recognition, and operational stability.

Result

With the Axis network cameras, the university has a significantly more effective security system. Unlike in the past when the security officers had to make a judgment based on vague shapes in the dark, the new system offers clearer images including detailed facial features thanks to Axis' Lightfinder technology which provides clear color images even in extreme low-light conditions. The cameras are now installed with unshielded twisted pair (UTP) cables instead of coaxial cables, which simplify the installation of additional cameras and offers better recorded image quality. The new IP-based system enables the university's security staff to monitor the entire campus 24/7 for rapid response in emergencies.

“We are very satisfied with the results of Axis’ new system introduction because of the elimination of security blind spots on the campus and establishment of an emergency response system. To help our students focus on their academic work without worrying about any security issues, we will introduce additional high-resolution network cameras.”

Kang Ki-hwan, General Affairs Department Manager, Daejin University.

Creating 24-hour safe campus with Lightfinder

Established in 1991 by Daesun Jinrohoe, Korea’s home-grown religious group, Daejin University aims to nurture talented individuals with character as well as knowledge. Despite the short history of 21 years, it has laid a strong foundation as a prestigious educational institution based on state-of-the-art technology and generous scholarship.

Before selecting a contractor, Daejin University administrators undertook an extensive review of available security systems. They conducted benchmarking tests on the systems offered by major vendors in terms of performance, price, and future warranty service. After a lengthy period of investigation, they selected Axis network cameras that guarantee better low-light performance than other brands.

Axis’ unique Lightfinder technology enables clear recognition of objects under low-light conditions. In addition to providing color images in extreme darkness, the Axis network solution offers images with much less noise than competition. The AXIS P3354 Network Camera installed at Daejin University offers clear images displaying recognizable facial features under dim emergency exit lighting.

The DVR-managed existing system held together 60 analog cameras with coaxial cables. Even though the recent upgrade replaced some with IP cameras, they were low resolution (400,000 pixels or less), and inadequate to monitor all remote campus areas and offered unrecognizable images in low-light conditions. The legacy system was costly in maintenance and repair and data storage.

“Axis network cameras provide color images under low-light conditions so security officers are able to recognize a person’s facial features at night,” Kang Ki-hwan, the general affairs department manager at Daejin University, said, and “we will take into account the fact that cameras from other companies are unable to produce comparable image quality to the Axis megapixel camera when we expand the system or introduce more cameras.”

User-friendly interface improves management efficiency

In terms of operation, user convenience has also been significantly enhanced. Thanks to the replacement of the coaxial cables with unshielded twisted pair (UTP) cables, adding cameras to the network has simplified.

The single video management software now manages all high-quality images. The remote auto focus function makes it easier to run the system.

Axis network cameras supporting Power over Ethernet (PoE) are connected to network equipment without separate power cables, allowing multiple channels to be managed from a single video management system. The system can also be managed in combination with existing solutions, which saves management costs and improves scalability for future expansion.

Kang Ki-hwan, Daejin University’s general affairs manager, commented, “After the security system replacement, we experienced significant improvement in user convenience and efficiency. We believe it will be much easier in the future for further expansion or camera replacement, too, and even though we were concerned about after-sale service because Axis is a foreign company, these worries were proven groundless after getting services comparable to those delivered by domestic companies.”

