

Gimpo International Airport: The first airport in Korea with HDTV quality network cameras.

Reinforced monitoring of airport building and parking lots with high-definition Axis network cameras.



Organization:
Gimpo International
Airport Office, Korea
Airports Corporation

Location:
Seoul, South Korea

Industry segment:
Transportation

Application:
Remote monitoring and
crime prevention

Axis partners:
Insung Information,
Genetec

Mission

Since its designation as an international airport in January 1958, Gimpo International Airport has provided customer service by offering regular flights to 71 cities in 28 countries. Gimpo International Airport enjoys the distinction of being the first airport in South Korea; it hosts 13 airlines offering both domestic and international flights. Guided by its mantra of "world-class public enterprise creating business and life," Korea Airports Corporation has expanded its facilities and functions to offer airport visitors a space for culture, leisure, and shopping dubbed "Skycity." As part of the U-Airport project aimed at developing and offering new IT-based services, the airport has pursued a future-oriented IT system to upgrade services for both domestic and foreign visitors.

Solution

The Aeronautical Communications Team of Korea Airports Corporation focused not only on the inside of the airport building but also on the exterior, including parking lots, which are always busy with visitors and cars. The team also believed that ensuring that 24/7 real-time viewing and monitoring for remote areas such as parking lots and entrances where lots of people come and go are in place is important.

As such, the team wanted to build a system that is capable of preventing robbery and crime in parking lots, monitoring any incident involving airport visitors, and taking immediate measures accordingly. Furthermore, the team needed a system that enables passengers at bus terminals to know when the bus they are waiting for will arrive. After testing and reviewing various network-based CCTV solutions, the team adopted 22 Axis products including AXIS P5534 and AXIS Q1755.

Result

With the adoption of the AXIS P5534 and AXIS Q1755 Network Cameras, Gimpo International Airport established a centrally controlled system that is capable of real-time viewing and monitoring to boost effectiveness. The biggest change was that the new system provides HDTV image quality, which is far superior compared to the analog system. By reinforcing surveillance and monitoring for parking lots and vulnerable areas crowded with visitors, Gimpo International Airport has evolved into a place where customers can enjoy improved safety and convenience wherever they are.

"As the first airport in Korea equipped with HDTV-quality network video solution, Gimpo International Airport has introduced a video surveillance system to prevent parking lot crimes and to specify passenger flows and incidents accurately. Moreover, the system ensures effectiveness in maintenance, repair, and management with its centrally controlled video monitoring and improved scalability from various control software. By upgrading the level of service with a new solution, the reputation of Gimpo International Airport as a domestic hub airport has been further reinforced."

Gimpo International Airport official.

Upgrading customer satisfaction with HDTV network cameras

Last year, 12.87 million passengers flew to and from Gimpo International Airport via domestic and international flights. As a central airport in the nation spanning 864,000 square meters, the airport has actively implemented the network-based intelligent video surveillance solution to prevent crimes and improve the security of vulnerable areas as well as the safety and convenience of passengers. Previously, Gimpo International Airport adopted analog cameras just like other airports in Korea. However, the analog camera had limitations in image quality, system storage, and extension.

In addition, since the airport used a variety of camera brands, it faced difficulties in managing them effectively. As such, Gimpo International Airport started to consider a digital network camera solution as an alternative. The most important factors in selecting the solution were image quality (resolution), convenience of management, and design; the Axis network camera solution met all these requirements. Both AXIS P5534 and AXIS Q1755 provide HDTV image quality. Gimpo International Airport is the first airport in Korea to adopt the HDTV network camera.

With Axis network cameras installed in parking lots, the airport is now able to monitor the flow of customers and parking lot conditions more accurately and effectively. Thanks to real-time monitoring from the central control center, the required measures are immediately in place; thus upgrading the quality of customer service. Furthermore, the zooming feature of the newly introduced network camera enables license plate identification, which was almost impossible with the previous analog camera system. The network cameras installed in bus terminals also allow visitors to check bus arrivals while waiting for the bus.

Since the most important factors for the airport in introducing cameras for parking lots and remote areas were compliant with the requirements such as clear images (HDTV-quality), convenience of maintenance & repair, and design, Gimpo International Airport is fully satisfied with the features offered by Axis, especially with the excellent image quality.

Improving scalability and management effectiveness

Another strength of the Axis network camera is that it enables more intelligent monitoring with various control software. Gimpo International Airport has implemented the Omnicast application of Genetec and has integrated it into the existing solution, thereby boosting management effectiveness and lowering costs. The application also supports improved scalability when the system needs to be extended. Using Power over Ethernet (PoE), digital CCTV cameras can be connected to the network without additional power supply; thus enabling multiple channel support from one video management system. Accordingly, additional extension and maintenance have become a lot easier. Moreover, the centrally controlled monitoring system has allowed effective management and follow-up measures by cutting down costs and has contributed to preventing accidents and crimes as well.

"Previously, every camera installed in the airport was analog-based. Introducing the Axis network camera has allowed us to achieve excellent product performance, high resolution, and effective monitoring and management. Without affecting the exterior of the building, the new solution now provides accurate and immediate video surveillance, preventing accidents and allowing us to take effective follow-up measures," an official of the Aeronautical Communications Team said.

