Improved safety at Gwacheon Church with Axis network cameras.

Church sends HDTV high-resolution images between remote buildings using advanced Axis network solution.

Organization:
Gwacheon Church

Location:
Gwacheon, Gyeonggi–do, South Korea

Industry segment:
Commercial

Application:
Safety and security

Axis partner:
Sunjin Infotech

Mission

Gwacheon Church and its congregation was founded 60 years ago. Although the church had managed well without any security system such as closed-circuit TV, its rapid growth made it necessary to more comprehensively manage church property. In particular, the church wanted to install an easy-to-use, yet efficient video surveillance system for the kindergarten within the church compound, as well as the church interior, exterior, and parking lots.

But the church's main building, education center, and social works wing are separated by large distances so integrating the system was a challenge. The solution was to install an IP camera system capable of supporting network infrastructure and high-resolution video.

Solution

Initially, Axis partner Sunjin Infotech set out to create a network infrastructure by using an SDSL sender/receiver at the education and social works centers along with a video extension solution through network cables in spots where monitoring was needed.

For security monitoring, indoor fixed dome cameras and fixed cameras were installed in several areas. In three outdoor parking lots, PTZ cameras and fixed cameras were mounted to eliminate blind spots. This avoided congestion problems during peak worship service times and simultaneously solved security issues.

Network cameras were installed in the main offices and the kindergarten to ensure the children's safety. And at the center of the main church building, an HDTV camera was mounted so that entire worship services could be recorded in high-quality video and audio.

All of this was done using the Power over Ethernet technology which allows power supply and video recording with one cable. All of the cameras could monitor in real-time while permitting video searches via NVR later.

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"The high-resolution Axis network cameras offer clear and vivid image quality for effective monitoring and recording purposes. In the beginning, we were unaccustomed to running a network-based system, but we soon realized it was a cost-effective, flexible way to manage security. We will certainly install more network cameras when we expand our system."

Video Monitoring System Manager, Gwacheon Church.

Result

With Axis network cameras, Gwacheon Church has deployed and is managing a comprehensive security system with minimum staff. Since the cameras have been carefully selected to meet specific requirements, they offer maximum effectiveness for each application. The camera system, including the 2-megapixel HDTV camera and an array of high-resolution network cameras, guarantees the safety of the church and its congregation through progressive scan high-quality video.

Appropriate combination of various high-resolution network cameras

Given the extensive, open-ended nature of churches, high-resolution images were an absolute necessity for monitoring. For surveillance of spacious prayer halls and large parking lots, Axis network cameras were the ideal solution. Gwacheon Church has improved its security level significantly through the use of Axis network cameras which are suitable for various applications and environments.

In particular, AXIS Q1755, the high-resolution HDTV camera with optical zoom function allows high-quality video of worship services. The outdoor-ready AXIS 215 PTZ-E installed in parking lots serves as a 'watching eye' monitoring the whole area around the church. In addition, AXIS M3203 with SVGA resolution is ideal for watching the wide entrance door. The cost-effective and reliable AXIS M1011 is effective in monitoring smaller but important security areas. AXIS P13 Series supporting PoE for easy installation is installed in high-risk external security spots to monitor the church's exterior.

Composition maximizes the benefits of an IP-based solution

Installing conventional analog closed-circuit TV (CCTV) between remote buildings may incur significant costs and headaches for installation and maintenance along with signal deterioration when sending and receiving analog signals. Gwacheon Church cut costs while gaining high-resolution video signals by using SDSL technology that creates an environment to connect IP-based equipment. Through the network-based technology, the video images saved in the NVR system can be delivered to far-away locations via the UTP cable.

Convenience of monitoring

In addition to being able to save and search video files via NVR, the system is highly flexible to a degree that system managers can perform real-time monitoring anytime, from anywhere. The church tested several video security systems but the Axis solution was the clear choice; one of the reasons being that it enabled parents to view videos of their children in kindergarten from any location.

Sunjin Infotech 선진인포텍(주)

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