CASE STUDY

Seoul National University Bundang Hospital creates smart healthcare environment with Axis cameras.

300 Axis networked cameras improve security while minimizing space.

Organization:
Seoul National University Bundang Hospital

Location:
Seongnam City, Korea

Industry segment:
Healthcare

Application:
Hospital safety and security

Axis partners:
NOW Inc., Milestone Systems

Mission

Founded in May 2003 as the first branch of Seoul National University Hospital, Seoul National University Bundang Hospital is a leader in healthcare services in Korea with state-of-the-art medical systems. Especially in the areas of oncology, neurology, and cardiology, as well as in geriatrics and minimally invasive surgery, the doctors and medical researchers at the Bundang Hospital boast Korea's best-quality medical services.

In all processes from admission to discharge, the hospital has established the latest smart information environment in order to minimize wait time for patients. For this, the hospital was awarded the Class 7 certification, the highest IT uptake level for healthcare service providers, from the Healthcare Information and Management Systems Society, a U.S. non-profit for better health through information technology.

In 2012, just before the launch of the next-generation hospital information system, the hospital introduced a new security system with higher cost effectiveness and management convenience for the new wing, raising the service quality further up.

Solution

Seoul National University Bundang Hospital decided to introduce a new security system for patients and guests. In particular, it urgently needed a new IP system that can cope with problems of the existing analog-based systems being used in the main building. In addition, the hospital management set out to review different network cameras with excellent data compression and image security features.

After comparing several solutions on offer, the hospital finally came to a conclusion that Axis network cameras provide the best cost effectiveness with the highest pixel resolution. The reputation of Axis Communications that has had a wealth of experience in different industries all across the world also helped the hospital to make the decision.

AXIS COMMUNICATIONS

54263/EN/R1/1310

"We could lay the foundation for ensuring safety of our patients and guests by installing a network camera-based security system befitting our reputation as one of the Big-five hospitals in Korea. Comparing to existing analog systems, the new solution is much more advanced in management efficiency and space saving feature, which satisfy all of us in the hospital. With better-quality healthcare services and security, we want to become the hospital most loved by customers."

Seoul National University Bundang Hospital.

Result

After deciding upon Axis network cameras, Seoul National University Bundang Hospital worked closely with Axis partner NOW Inc., to find out possible issues that could arise after installation, including compatibility issues between the existing and new systems. By minimizing risks this way and thus eliminating fears about the new system, the hospital was able to successfully install the IP surveillance system.

After introducing the Axis network camera system, the hospital had a firm foundation for centralized surveillance video management and further system expansion. The 300+ Axis cameras, which included AXIS M3023, AXIS M1113, and AXIS P5512-E Network Cameras, and AXIS Q7404 Video Encoders, allowed the hospital staff to manage high-quality images more easily while improving space efficiency. Through the state-of-the-art compression technology, the solution helped the hospital save the storage space significantly, while providing room for expansion via excellent scalability and compatibility.

Easier video management and maximum space efficiency

The new 11-story building for Seoul National University Bundang Hospital, with a total floor space of 57,048 square meters, claims to offer "patient-oriented services" in the specialty areas of oncology and neurosurgery. With more than 300 Axis network cameras in place, the newly opened hospital wing can monitor every movement within and around the building from the centrally located control center.

Up until now, the hospital had managed surveillance videos from analog-based closed-circuit TVs and DVRs scattered around the main building separately. Instead of collecting the image data and sharing them across the compound, the hospital can now manage the images easily through the network system. In addition, the new IP system allowed the hospital to manage a variety of video equipment in small spaces, thereby improving space efficiency significantly.

Comparing to the legacy analog system being used in the main building, the new system deployed in the new wing with 300 cameras across the 11-story building can save space by a large margin.

An official at the Bundang Hospital said, "The new IP system for the new wing helped us solve all problems that we were concerned about, such as integrated monitoring and management issues, while exhibiting better-than-expected excellent performance in terms of resolution, space saving, and convenience. Any company or public organization with large-scale security systems must consider introducing this solution above all else."

Excellent scalability and compatibility

Axis network cameras with excellent scalability and compatibility work best if they are used in conjunction with a variety of other equipment and software. The cameras installed in the new building of Seoul National University Bundang Hospital are also integrated with Milestone ExProtect® Video Management Software, storage, and viewer/operating servers. Thanks to the high-performance compression technology, the storage space requirement has been reduced to a minimum, again helping the hospital save cost.

As the Axis network cameras use the Power-over-Ethernet (PoE) technology that enables power to be provided to the network device using the same cable as that used for network connection, they do not need a separate power cable and can support several channels with a single video management system. The system is thus easily scalable and easy to maintain. In addition, it can be managed in conjunction with the existing system, which in all improves management efficiency while cutting costs.

An official at the Bundang Hospital said, "In order to improve the system continuously and by finding blind spots for the safety of patients and guests, it is imperative for us to introduce systems and products that are compatible with existing ones. We expect the Axis network cameras to be highly compatible with current systems when we scale up the systems."

SNUH 서울대학교병원

NOW INC

milestone

AXIS COMMUNICATIONS