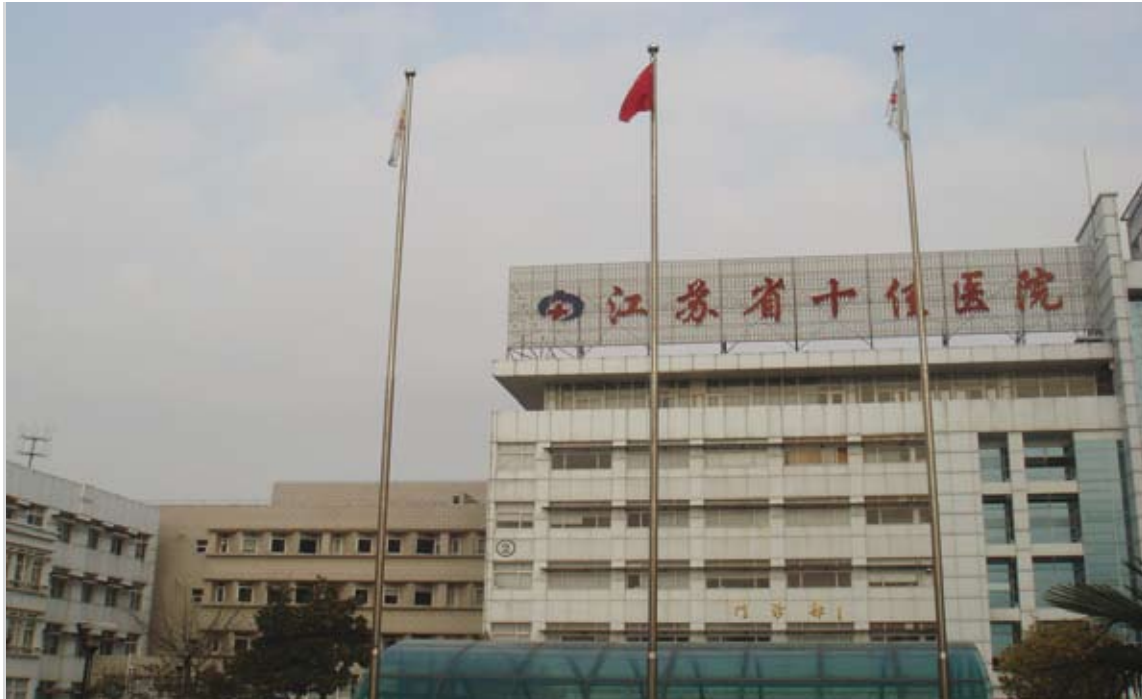# Haian People's Hospital uses Axis IP-based video monitoring system.

The new generation of Axis H.264 products is successfully applied in the healthcare industry.

Organization:
Haian People's Hospital

Location:
Jiangsu, China

Industry segment:
Healthcare

Application:
Network video monitoring of hospital's public areas

Axis partners:
Shanghai Novida Information Technology Co., Ltd.; Aimetis Corp.

Mission

Haian People's Hospital was established in 1950 and has developed into a well-equipped, advanced state-level hospital. Covering an area of 47,600 square meters, with a total building area of 61,780 square meters, it houses 500 beds and welcomes up to 18,000 patients a year. It has successively been rated as "Jiangsu Model Hospital" and ranked among the "Top 10 Hospitals of Jiangsu Province". With its continuous expansion and increasingly advanced hardware facilities, the hospital realized the importance of security. As a result, one of the objectives of the video monitoring system of Haian People's Hospital was to achieve video surveillance of all public sections of the hospital in a quick and effective way.

Solution

Haian People's Hospital chose a network video solution from Axis Communications, and deployed video monitoring over all critical sections of the hospital - covering the 16-floor residential building, the emergency building, car parks and the hospital square area. The total video system includes more than 100 channels.

The hospital selected many models of Axis network cameras, including AXIS 207, AXIS 215 PTZ, and the new generation of AXIS P3301, to meet different requirements according to location and circumstances. The cameras are directly connected to the network, transmitting video to the back-end Aimetis Symphony video management system, which was provided by Aimetis, a global Axis Application Development Partner (ADP).

Result

Since many medical buildings of Haian People's Hospital have long been in use, a network-based monitoring system not only simplified the installation involving the mounting of cameras and cabling, but it also reduced the installation costs and time. In addition, the system took full advantage of a number of inter-building network cable resources, which reduced the overall difficulty of the project. The network video solution in place, thanks to its high degree of flexibility, can both be configured in accordance with the real situation in each section, and meet the user's needs for accessing and sharing video.

AXIS
COMMUNICATIONS

"The advantage of the new generation of Axis network cameras based on H.264 standard is that it greatly reduces the demands for network bandwidth and storage while maintaining superior image quality. The cameras can provide multiple streams simultaneously according to different video requirements, therefore greatly improving system performance."

President Zhang, Novida (system integrator of the project).

Successful application of the new generation of H.264 products

The new generation of Axis network video products is based on the ARTPEC-3 video compression chip that is developed by Axis independently, and uses the H.264 video compression technology standard. H.264 is a new generation of standard for video compression which can effectively improve the efficiency of video compression. The standard has been widely applied in various industries, such as telecommunications, television, broadcasting, entertainment, and monitoring. It is estimated that it will become the preferred video standard in the coming years.

In the project, the new generation AXIS P3301 Fixed Dome Network Cameras was selected. The cameras not only provide both H.264 and M-JPEG encoding, but also excellent simultaneous support for multiple streams. In accordance with requirements for different video streams within the monitoring network, the camera generates different video streams, which can be configured independently without affecting the transmission performance of other video streams.

Intelligent distributed video surveillance

Another big advantage of the Axis IP-based video solution lies in its distributed video intelligence. Compared to analog systems, Axis network cameras provide a wealth of embedded intelligent video functions, including video motion detection, I/O, alarm notification, etc. Such a distributed design significantly lowers the load on the system's back-end server, improves system efficiency and facilitates upgrades.

On the back-end video management platform, Canada's Aimetis Symphony video management software provides highly-efficient functions for video management, video recording, and network video sharing. It also seamlessly integrates many video analytics functions, such as congestion alarm, people counting, and automatic tracking, making the whole network video monitoring solution a truly proactive system.

Lowering the total cost of ownership

The use of IP technology saved installation time, but also greatly lowered the costs of auxiliary facilities, cabling and construction. The solution no longer requires complex analog cabling, and the deployment of new systems is much more flexible and cost-effective by using the existing network infrastructure.

This solution no longer requires rows of DVRs, and recorded video is stored in digital format on digital storage media, making video retrieval very fast and convenient. Video from the many buildings can also be easily accessed via the network.

Additionally, the intelligent analysis and active prevention functions have helped reduce the burden of security personnel and improve their working efficiency. They also enabled the reduction of mistakes due to human negligence, thus making for an even better return on investment.