Crime reduction and emergency responsiveness provided by public security surveillance system.

County police turn analog system into high-performance IP-Surveillance solution using Axis video encoders.

Organization:
County-level police bureau

Location:
Nantou County, Central Taiwan

Industry segment:
Government

Application:
Security and real-time road condition monitoring

Axis partner:
Alpha Pricing

Mission

A priority for city- and county-level police bureaus is to make good use of advanced technology to proactively reduce crime and speed up investigations. A county-level police bureau in Central Taiwan has therefore developed a public security network surveillance system based on the county's special terrain to effectively safeguard the county.

Solution

The network video surveillance solution, based on the AXIS 241Q Video Server/Encoder, is deployed on access roads throughout the county and at major intersections in townships. 800 analog cameras have been migrated to network video using more than 300 Axis video encoders. Video images captured by the cameras at designated times are transmitted by ADSL to the duty command center of the county policy bureau for centralized management of road conditions throughout the county.

Result

Video gathered by the county's public security network surveillance system helps the police compare and match relevant information much faster than before. It facilitates the analysis of important details to decide investigation directions and expedite investigation. Moreover, monitoring cameras and existing alarm devices in community neighborhoods now form a complete audio-video surveillance system that effectively enhances public security by proactive crime prevention.

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"Our public security surveillance system, based on the AXIS 241Q Video Server/Encoder, is a complete anti-burglar network throughout the county. Video of suspicious situations captured by cameras are immediately sent to our duty command center to expedite investigation. Moreover, during typhoons or other natural disasters, the system effectively provides first-line monitoring for our emergency response center."

Duty command center, county police bureau.

Effective crackdown on crime by real-time video surveillance

Because of the highly diverse terrain in the county where there are level ground, mountain, and river areas interlaced, and different townships are far apart, the county policy bureau - with limited manpower - decided to deploy the network surveillance system to enable effective monitoring as well as rapid retrieval and review of previous video images.

After deciding to adopt the network architecture for its surveillance system, the county police bureau commenced its three-year implementation. Alpha Pricing Co., an Axis partner, recommended the AXIS 241Q Video Server/Encoder to the police bureau, to be connected to analog cameras and provide advanced functionality as well as complete technology backup.

This network surveillance system realizes the National Police Agency's "virtual e-wall" policy, covering access roads throughout Nantou County and major intersections in townships. The 300+ Axis video encoders, by being instrumental in the migration of analog investments into high-performance IP solutions, were considered an ideal choice for the new remote security surveillance system.

Increasing efficient operation by moving from analog to network video

When the county police bureau used its analog surveillance system in the past, it was unable to ensure normal operation of cameras. As a result, critical video tended to be missing and solution of criminal cases was often delayed. With the network video system based on Axis video encoders now in place, the duty command center is able to manage surveillance centrally and remotely. They can make sure all surveillance devices are operating normally and speed up investigation by real-time analysis, comparison, and matching of the images in question.

According to Alpha Pricing Co. responsible for the implementation, the AXIS 241Q Video Server/Encoder is ideal for outdoor network video surveillance. It provides outstanding cost effectiveness and can be operated under a rigorous outdoor temperature range.

The AXIS 241Q also helps optimize system integration and network utilization because of its sophisticated functions such as built-in motion detection and simultaneous Motion JPEG and MPEG-4 streams.

Effective first-line monitoring for emergency responsiveness

The network video surveillance system not only provides effective monitoring of road conditions but also enables first-line monitoring for the county police bureau's emergency response center. During each typhoon, the county typhoon emergency center uses the cameras in every township - particularly in remote mountain areas - and on major roads to monitor road and traffic conditions, providing timely maintenance and rescue operations.

Video images gathered by the county's public security network surveillance system help the police compare and match relevant information much faster than before, which facilitates investigation. Moreover, monitoring cameras and existing alarm devices in community neighborhoods have transformed the voice functionality alone in the past into a complete audio-video surveillance system that effectively enhances public security by proactive crime prevention.

As the county police bureau's network surveillance system has been showing positive results, it will be expanded year by year to enhance public security for every township.

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