

A safer Jingjiang City helped by Axis Communications. Jingjiang's Project "3.20" Traffic Block Port surveillance system uses Axis network video solutions.



Organization:
Jingjiang Public Security
Bureau

Location:
Jingjiang, China

Industry segment:
City surveillance

Application:
Safety and security,
license plate recognition

Axis partner:
Shanghai Ziya
Information Technology
Co., Ltd.

Mission

The levels and complexities of crimes are increasing; often fuelled by improved living standards and access to high tech and intelligent resources. Jingjiang City has introduced Project "3.20" to combat crime occurring at all levels within Jingjiang City and Taizhou City. Measures are already in place such as HD smart block ports and auxiliary video surveillance. The security processes can integrate with other areas such as traffic management, criminal investigation and patrolling by providing images from public security bureau.

Solution

Axis partnered with Shanghai Ziya Information Technology Co., Ltd to provide 200 AXIS P1343 HD network video cameras installed at block ports and 500 AXIS Q1604 used for car plate recognitions for Project "3.20." The cities get real-time monitoring, vehicle images, alarm notices, record and store traffic data from using block port surveillance and high-speed control systems.

The solution uses both IP-based network interface and other interfaces. This makes it easier to connect between computers and surveillance points.

Result

Jingjiang Public Security Bureau now has a robust "Jingjiang 320 Road Surveillance" in place enabling the officials gather human images, logging of phone information; access to crime evidence and have insight into the intelligence behind crimes. The traditional route of case handling is now information-driven as Project "3.20" can get insight on people and transport choices, which gives efficiency in criminal investigations. The monitoring system has helped to make Jingjiang City safer.

"Axis high definition cameras produce images of high quality at low bit rate, which greatly enhances monitoring efficiency."

Management official of Jingjiang Public Security Bureau.

Safe Jingjiang City

Rapid economic development and rising living standards have given rise to many negative factors that induce and breed criminal activities. Criminal activities have progressively become more high tech, intelligent and professional, increasing the unpredictability and uncertainty of such activities. This phenomenon has created greater difficulties in crime prevention and detective work. In order to control the social security prevention and control system, and intensify the development of a safe Jingjiang City, public security authorities at all levels in Jingjiang have started the work of building Project "3.20" within the city. Project "3.20" includes developing high definition smart block ports, block port-type electronic police, auxiliary video surveillance etc. Through using standardized technical standards citywide, all the information collected from front-end monitoring are collated to build an image database and image monitoring integrated application system at three levels: the provincial public security bureau, Taizhou City and Jingjiang City. The system will integrate all types of monitoring data to form an integrated and comprehensive information application system that is used for convergence management, control switching and sharing of all kinds of image resources.

Effective technical support to combat crimes

The construction of Project "3.20" utilizes block port surveillance and high-speed control systems to carry out real-time monitoring, capture vehicle images, perform vehicle recognition, activate alarms, record and retain vehicular traffic information and traffic flow data. This reaches a centralized and effective management of vehicles travelling within the highway monitoring zone. This infrastructure provides an effective technical support to public security departments especially in combating robbery and crimes committed by black-listed motor vehicles, investigating hit and run traffic accidents, analyzing traffic conditions and strengthening public security management. To achieve this, 200 AXIS P1343 high definition network video cameras are installed at block ports within the city to provide panoramic monitoring, and 500 AXIS Q1604 are used for

car plate recognition on non-motorized vehicle lanes. Round-the-clock recording of images of vehicle license plates and panoramic views of vehicles are carried out on all vehicles leaving the block ports on two-way roads, made up of four to six vehicle lanes. The captured images are stored, processed and transmitted. The traffic flow conditions are uninterruptedly and automatically recorded, analyzed and stored throughout the year. The back end system uses Ziya's license plate recognition software, which automatically captures images and carries out license plate recognition of vehicles passing through road junctions on a round-the-clock basis and is also able to provide real-time sound, light alarm notification and increased security. The surveillance site offers the functions of data storage, information inquiry and data transmission, computation and printing etc. The new system employs both IP-based network interface and other data interfaces, making it easy for the system to connect with other devices. The system control center manages the connection between computers and surveillance points. A star topology structure is adopted for connections to computers. Each surveillance point has a direct connection with the control center for transmission of data on traffic flow and of monitored images.



Greater efficiency in criminal investigation

The six major functions performed by the system are video surveillance, number plate recognition, image capturing, vehicle matching, vehicle track playback and communication and command. These make possible the "capturing of human images, recording of vehicle numbers, logging of phone information, detection of regulation violations, obtaining of crime evidences, and tracing of trajectories". It is now possible to gather intelligence, which is analyzed and shared so that the information obtained from behaviour analysis, collision matching, trajectory analysis and other sources of useful information can be used to solve criminal cases. With this road monitoring system, a good foundation has been laid for the building of a safe Jingjiang City.