CASE STUDY

Axis cameras protect Ningbo Public Security with HDTV network system.

Organization:
Ningbo Jiangdong Public Security Bureau

Location:
Ningbo, China

Industry segment:
City surveillance

Application:
Urban safety, traffic monitoring

Axis partners:
Shanghai Chase Electronic Technologies, Co., Ltd., Aimetis

Mission

Jiangdong District of Ningbo, China, is on the frontline of the city's eastward development, playing a key role in its important construction projects. The demand for video surveillance was increasing in the various business units of the public security sub-bureau, and the public security administration built on video surveillance to manage the different communities, ensure safety, crack down on crime, maintain stability, and safeguard security of residents. In recent years, as digital video surveillance technologies have developed, system functionalities and features have been continuously improving; and further, the broadband network has been able speed up the digital video applications. Agencies at various levels thus shared the common purpose of including video surveillance as part of traffic management and urban safety.

As per the municipal public security administration's requirements for emergency planning, quick response and command and control, the district and county-level public security agencies have deployed video surveillance systems that fulfill these demands on remote networking, and address the requirements of the same bureau and other relevant administrations for browsing, invoking, checking, and controlling the surveillance images across the city in case of any emergency event, thus achieving the interconnection and intercommunication of city-wide resources and information sharing as well.

Solution

The new city network system of Jiangdong, Ningbo is a converged management platform integrated with video surveillance, smart analytics, and electronic police, enabling Jiangdong Public Security Bureau to connect with its existing analog system and Ningbo Public Security Bureau's third party platforms.

AXIS COMMUNICATIONS

54694/EN/R1/1312

"The WDR functionality of the AXIS Q1604 Network Camera is excellent and helps provide better protection for a safer city."

Zhang Zhijun, Jiangdong police ICT Branch.

Access layer devices:
AXIS Q1604 WDR-enabled Network Cameras were selected for the demanding road environments, and AXIS Q6035-E Dome Network Cameras were selected for the critical positions and high-altitude viewer points around the new municipal government buildings. In all, 100 units of HDTV Axis cameras were installed for this project.

Video management platform:
For video management, a third-party digital platform was deployed to connect with Jiangdong Public Security Bureau's existing analog system and the municipal public security administration's third-party digital platforms, providing the ability to transmit its images to Jiangdong Public Security Sub-bureau, Ningbo Public Security Bureau and the provincial public security department.

Smart analytics platform:
The smart analytics platform from Canada Aimetis was deployed to analyze vehicles parking and driving in the wrong places, and people gathering and wandering in unauthorized places/situations.

Electronic police platform:
The images were transmitted directly from the security checkpoints to the command center of Jiangdong Public Security Bureau, for centralized management of the 20 lines of HDTV checkpoints, i.e., monitoring the checkpoint captures, viewing the live HDTV videos, and replaying the recorded images.

Result

AXIS Q6035-E Dome Network Cameras selected for the system are used at the perimeter and high-altitude viewing points in the vicinity of the municipal government; for each point, the overview is provided to monitor everything in the range of 1,000 meters, and the details including license plates can be captured in the range of 300 meters. AXIS Q1604 Network Cameras with WDR compensation provide the ability, during low-light conditions, to mask the headlights of vehicles driving on the road and capture the clear license plate numbers. Further, Axis cameras provide the adaptive code stream, which means it will drop if the complexity in the scene is not high, thus considerably saving the storage space. Axis cameras seamlessly integrate with the existing systems, allowing Jiangdong Public Security Bureau and the municipality to retrieve any image from the new digital system at any time, without modification to their existing systems. The new city digital video surveillance system of Jiangdong, Ningbo has been lauded as an excellent achievement in the city's construction of digital video surveillance systems.

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