CASE STUDY

Seoul Transport Operation and Information Service implements parking system surveillance in the city with Axis network cameras.

High-quality video surveillance system with AXIS 233D Network Cameras enables precise images and identification.

Organization:
Seoul Transport Operation and Information Service

Location:
Jongno-gu, Seoul, South Korea

Industry segment:
City surveillance

Application:
Parking lot surveillance

Axis partner:
Hanil STM

Mission

As one of its 20 key missions, Seoul is promoting the "12 Million Visitors Attraction Project" as an economic tourism center. As part of this project, Seoul City began constructing Namsan as a tourism resource and a historical cultural street. As a result, the number of tourists is expected to increase together with traffic and illegal parking. Using field studies in cooperation with the project's management, Seoul City decided to build a new unmanned parking lot regulation system, taking into account integration with the existing system, convenient management, video quality, and street surveillance in 9 locations.

Solution

The existing parking surveillance system used analog dome cameras configured with precise settings. Since these cameras produced unclear images, license plates were often misread, causing difficulties in regulating illegal parking. Therefore, Seoul City implemented the AXIS 233D Network Dome Camera, which uses progressive scan.

Compatible with the existing network, the Axis camera provides crisp, clear images that support the new license plate identification module. It not only integrates perfectly with the existing system but also operates when there are many external errors, and it records quickly and precisely.

Result

Seoul City built a semi-automatic system with AXIS 233D; it has implemented a high-definition video surveillance system through progressive monitoring with auto-focus and zoom features as well as better quality video than the existing dome cameras. With high-speed movement of 360°, AXIS 233D can also zoom in on small and distant objects, thus allowing, for example, license plates to be identified clearly from a distance of 70m. With this system in operation, Seoul City not only addressed its illegal parking problems but also stabilized and optimized the parking regulation system and operation.

AXIS COMMUNICATIONS

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"We believe we made the perfect choice in building an unmanned parking surveillance system since AXIS 233D not only integrates perfectly with our system but also delivers precise images and high performance. We are completely satisfied with AXIS 233D since we are now able to implement high-quality video surveillance for illegal parking regulation."

Official from Seoul Transport Operation and Information Service.

It consequently enhanced traffic in the main streets and ensured the convenience of citizens in using public transportation as well as reducing traffic jams and accidents. As a result, Seoul City established a stable traffic culture, and ultimately enhanced the competitiveness of Seoul as a tourist city.

Building a trusted automatic parking regulation system that can be managed efficiently

The automatic parking regulation system automatically detects entry/exit, movement, and parking time of cars and automatically reads the license plates, sending all data from the cars in violation to the control center. The control center then processes, saves, and manages the violation data automatically.

By building a new unmanned parking regulation system with AXIS 233D, Seoul City was able to manage 10 locations with one device. This not only maximized the regulation efficiency with minimum human resources but also answered the demand for site regulation of each operator and distributed the regulation task to the right person at the right time. In addition, precise data was secured fast with minimal operation and the work efficiency of each operator was also reinforced, thanks to the enhanced working environment.

The new unmanned parking regulation system uses an exclusive line to prevent intrusion or access to car information, search and data sharing. Along with this, an ID and a password are used to limit access and protect saved data.

Implementing round-the-clock service based on reliability, with excellent image quality and identification capabilities

The existing system used an analog camera that was not able to read license plates up to 50m as the general specification required. This gave rise to major problems in controlling illegal parking. Therefore, instead of using analog dome cameras, a network camera was used to address the problem of identifying objects that were far away. When Seoul City began using the AXIS 233D, it covered 2 times the distance of the existing analog dome camera with its digital zoom. It is able to precisely read license plates that are far away. Today, the network camera is fast becoming popular in the field of illegal parking regulation.

Given the wide climate change in Korea characterized by cold winters and hot summers, the durability and reliability of the product are very important. Ever since Seoul City began using AXIS 233D, the system has been operating 24/7.