

## Axis network video system improves safety and management efficiency at car parks.

Network cameras and NVR improve image quality and enable integrated video management at multiple locations.



Organization:  
Onuki Co., Ltd.

Location:  
Hakata, Fukuoka, Japan

Application:  
Remote monitoring

Axis partner:  
NSX Co., Ltd.

### Mission

Founded in 1936, Onuki manages real estate in the Kyushu region, especially in Fukuoka City. Among other business enterprises, Onuki operates automatic multi-story car parks in the central district of Fukuoka City as well as other areas. As use of its car parks is charged by the hour, several hundred vehicles come and go every day. Although analog security cameras were already installed in the car parks, their low-quality images and deteriorating equipment were creating issues such as the need for improved management quality and a review over the system with a special focus on safety.

### Solution

Two of the car parks in question were in buildings specially designed for car parking only. Each has a control office manned by a security guard, but the company also needed to monitor the car parks remotely from the head office. Another requirement was to capture high-quality images that could identify license plate numbers, which was very difficult with the existing analog cameras.

To meet such requirements, Onuki chose the combination of "AIR-EYE", a remote video recording server system supplied by NSX, and Axis network cameras. The new system consists of a total of 49 network cameras: four AXIS 221 Day & Night Network Cameras and 45 AXIS 211 Network Cameras. It also has two servers to record video that can be monitored from the control offices and the main office.

### Result

Remote monitoring and replay of recorded video, which was impossible before, now allow the company to grasp the state of both sites quickly and accurately. The high-quality images, which have been significantly improved compared to those taken by the analog cameras, are useful in checking vehicles, people and license plates. Furthermore, video search can be done much faster now by using motion search (based on motion detection) and specifying a time, not to mention hugely enhanced usability.

"High-quality images, remote monitoring and high search efficiency are some of the major benefits from introducing the network cameras."

Onuki official.

### Network camera system with high-definition images

Camera recording is done via a server installed at each car park. Live video is displayed and recorded video can be played back from the control office and the main office. Compared to images captured by the old analog cameras, image quality has improved so dramatically that the company can check license plates and other things that could not be identified before.

Another major benefit of the network camera system is its ability to play back a desired video quickly and easily by specifying a time in combination with the motion search function. In contrast, the analog system required much time and effort to search for specific recorded video sequences.

### Transformation into safe and secure car parks

As a large number of unspecified vehicles enter and leave the pay-by-the-hour car parks every day, they may face problems such as lost parking tickets and machine trouble. They may also face other problems such as trespassing by non-car park users and illegal use of the facilities. If such problems are checked and handled quickly, the satisfaction of customers using the car parks will increase. In addition, visual recording of the situation when a problem occurs improves the accuracy and efficiency of investigations and verifications.

Onuki believes that improving the level of operational management with a network camera system will make car parks more secure places to use, and as a result, will lead to better services for customers. The new system is also designed to take into consideration that the car parks are used by large numbers of unspecified people. "From the perspective of protecting personal information, live video and recorded data can only be observed by system administrators based on the security functionality within the system," says Mr. Atobe, NSX.

### Benefits of network cameras

"Compared to the conventional analog cameras, network cameras cost more, and that was a big problem," says Mr. Atobe. "But when you realize that their network wiring cost is actually less than the coaxial wiring cost, the total cost to build the network camera system, including its construction cost, will be around the same as that of the analog system. Onuki decided on our network camera system, based on the benefits specific to the network cameras such as improved image quality, higher search efficiency and database coordination."

Effective use of hubs minimized the cost of wiring in the car parks. When there were multiple floors that required a number of cameras, such high wiring efficiency achieved made a huge difference in the initial implementation costs.

"We have been satisfied with the image quality, functions and usability of the new system since the start of its operation," says Onuki. "We have chosen standard network cameras this time, but we are also looking forward to incorporating products that can take wide-angle high-resolution video and products with backlight compensation."



Network System Remix (NSX)  
www.nsx-net.co.jp

For details of "AIR-EYE"  
www.nsx-net.co.jp/aireye.html