Dahua AI Helps Haier Create Intelligent Industrial Park in Russia

Location
Naberezhnye Chelny, Tatarstan, Russia

Industry
Building

Products
AI Cameras
Perimeter Cameras
IR Dome Network Cameras
Starlight IR PTZ Network Cameras
ANPR Cameras
Face Recognition Barrier
EVS Storage
DSS PRO Management Platform

" *During the requirement discussion, solution design, and engineering survey, Dahua shows professionalism and excellent communication skills. Haier is satisfied with the first step cooperation and looking forward to the second step of the project.* "

Liu Wei, Overseas Regional Project Manager of Haier Group

▶ BACKGROUND

Haier Group, China's leading home appliance manufacturer, was looking for an intelligent system to realize multiple tasks within its industrial park in Russia. First, to prevent theft and timely detect people climbing over the perimeter fence. Second, to provide comprehensive monitoring in the whole industrial park and inside the factory which includes: monitoring of production line and employees' smoking behavior during working hours at office areas; efficient employee attendance; vehicle identification at the entrance and exit areas of the industrial park; and the overall management of all devices, data report output, etc.

▶ SOLUTION

To help Haier solve the first problem, Dahua 5MP WDR IR Bullet AI Network Cameras were chosen to safeguard the perimeter of the Haier industrial park. Featuring active deterrence, the cameras are able to proactively warn intruders to leave before users take action. Once an intrusion is detected, a white light will turn on, accompanied by a buzzer to warn off the intruder. Additionally, its AI-powered perimeter protection function can greatly reduce false alarms caused by irrelevant objects.

The office areas and the interior of the washing machine factory are covered with Dahua 4MP WDR IR Dome Network Cameras. With built-in Intelligent Video System (IVS) analytic algorithm, these dome cameras also support intelligent functions to monitor a scene for tripwire violations, intrusion detection, and abandoned or missing objects. In the future, it can respond quickly and accurately to events in the monitored areas.

As for public areas, Dahua 2MP 25x Starlight IR PTZ Network Cameras have powerful optical zoom and accurate pan/tilt/zoom performance that can provide a large monitoring range and rich details. Through the latest Starlight technology, the cameras can achieve excellent low-light performance.

Dahua face recognition barriers were deployed at the entrance of the Haier industrial park and its office building, allowing quick and touchless passage of registered Haier employees without using employee cards or other identification documents. The system is based on a deep learning algorithm powered by AI, which compares facial images captured by the camera with those stored in the library to verify a person's identity and grant permission. Access will be denied for unregistered people.

The industrial park's entrance and exit use 2 Megapixel Full HD AI Access ANPR Cameras to identify entering and exiting vehicles. Boasting a capture rate of over 99%, the cameras can automatically recognize the number plate of a vehicle in low speed less than 40 kmph, and capture vehicle data such as vehicle direction, vehicle size and vehicle color detection (in daytime) based on deep learning algorithm. Aside from these capabilities, the cameras can also control the barrier according to the whitelist set by users and let registered vehicles pass without stopping.

At the management center, all the information collected by font-end cameras will be transferred to a 16-HDD Enterprise Video Storage. With Seagate HDD, the device offers unparalleled capacity performance for users to store massive videos and obtain evidence when needed. The Dahua DSS PRO management platform integrates all cameras and the aforementioned devices, allowing operators to easily control and manage the system.

▶ RESULT

Dahua Technology's smart industrial park solution has assisted Haier in creating a modern intelligent industrial park in Russia. The up-to-date Dahua AI equipment provides Haier a long-term smart security system with upgraded security level and enhanced management efficiency.

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