

Axis helps Shanghai Aircraft Manufacturing implement visualized integrated surveillance system with network cameras.



Organization:
Shanghai Aircraft
Manufacturing Co., Ltd.

Location:
Shanghai, China

Industry segment:
Industrial/Manufacturing

Application:
Safety and security

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

Mission

Shanghai Aircraft Manufacturing (SAM) was founded in 1950. As well as owning the intellectual property rights to the Shanghai Y-10, a four-engine commercial passenger jet aircraft, it is responsible for development and production of a number of different aircraft.

The management and monitoring of a plant of the size of the SAM one in Shanghai posed a complex challenge. SAM approached Axis Communications partner Ziya Information Technology to design a comprehensive surveillance system. The system would need to be integrated into the building management system and incorporate applications designed to increase operational efficiency. Specifically, SAM wanted not only a video surveillance system but wanted to include a video conferencing system, a training system which was to be accessed via the network, mobile terminals for end users and a facial recognition application for the access control system.

Solution

SAM had specific requirements in order to ensure full coverage of the plant and various functionalities were required. The cameras needed to be strategically placed at different nodes in the system to cover the entire layout of the plant and certain key areas needed to be monitored at specific times. There needed to be a predefined procedure in place for response to activity in these areas and in some parts, day/night coverage was essential.

After an analysis of client needs, 2 network cameras were selected for the system: day/night fixed AXIS P1344 Network Camera, and the AXIS P5534 PTZ Network Camera which delivers HDTV quality images and is suitable for monitoring large areas due to its 18x zoom.

This allowed the different needs in terms of time of day and area to be monitored to be fulfilled. Full coverage of the plant was achieved, with key areas being covered by high resolution cameras.

"This deployment of the visualization integrated system not only improved our current production and management quality, it also satisfied future development needs. The reliable quality and clear display units of Axis products have provided the best guarantee for the smooth operation of the entire system."

Wang Haigang, Shanghai Aircraft Manufacturing, Head of IT Department.

Result

An integrated management system was implemented which combined video surveillance and access control. The video conferencing system was integrated into the existing architecture and could be viewed by 2,000 users live online or played back after the fact. This resulted in time and costs savings by reducing the amount of travel by workers. The integration of digital training into the system was one of the main objectives of the project. The client's research and management resources were digitized and are accessible on the platform for training purposes. A facial recognition application is used with the access control system for both security and building access purposes.

Users at multimedia terminals in the form of iPads were able to monitor and manage production, utilize training facilities and access video conferences and ensure the safety and security of the plant and workers. The end result was a unified and efficient management system with multiple network visualization capabilities which has enhanced the production, operation and management of SAM.

