

SSRF ensures efficient remote video surveillance of facilities with Axis network video.

Axis' 1,000,000th network camera finds home in China.



Organization:
Shanghai Synchrotron
Radiation Facility

Location:
Shanghai, China

Industry segment:
Industrial

Application:
Remote surveillance and
PTZ control of SSRF
facilities

Axis partner:
Shanghai 3End Industrial
Co.,Ltd.

Mission

SSRF (Shanghai Synchrotron Radiation Facility) provides the third generation of intermediate-energy synchrotron radiation light source, design capacity of which is one of the best in industry around the world. It is the largest-in-history large scientific facility in China, and is of great value to scientific and industrial applications. SSRF is a "Chinese National Important Project on Science" proposed by the Chinese Academy of Sciences and the Shanghai Municipal Government and constructed by Shanghai Institute of Applied Physics, Chinese Academy of Sciences.

Due to the specialty of SSRF research facility, no personnel is allowed to enter the tunnels where accelerators and other devices are deployed during the production, operation or commissioning of the entire light source device. Therefore, remote video surveillance of operational conditions and status of all the devices was required.

Solution

SSRF decided to deploy a fully digitized/networked surveillance system based on network cameras from

Axis Communications. The system comprises different models of Axis network cameras, to meet the company's site coverage requirements: AXIS 213 PTZ, a pan/tilt/zoom, IR-enabled network camera; AXIS 211, an indoor/outdoor fixed network camera; AXIS 212 PTZ, an indoor camera that provides full overview, with instant, one-click pan/tilt/zoom. Cameras are monitored using a video management software platform with multiple features, including support for PTZ remote control and bi-directional audio via the network.

Result

Thanks to Axis network cameras, remote video surveillance has been easy to establish via the network. The network video surveillance system fully utilizes SSRF's existing network resources and infrastructure, thus considerably reducing costs and time spent on system implementation. The Axis network cameras provide efficient coverage of required surveillance areas via PTZ control over the network, and as such meet SSRF's crucial needs for status monitoring and disaster prevention.

"The integration of bi-directional audio with video feeds allows our technical experts in the surveillance control room to speak with maintenance personnel on site, further improving the maintenance efficiency and considerably shortening the time spent on maintenance. In addition, with the utilization of the existing network infrastructure, the cost for building the video surveillance system has been considerably cut down."

Client from SSRF company

Axis' 1,000,000th network camera finds home in China

As part of the network-based, fully-digitized Axis video surveillance system tailored for SSRF, the millionth network camera of Axis found its home in China. Since its debut of the world's first network camera in 1996, Axis has been leading users from around the world to utilize advanced network technologies and intelligent network video technologies, bringing major improvements to traditional video surveillance. The deployment of the millionth network camera is a milestone not only to Axis but also to the entire network video surveillance industry.

"One of the major reasons why we chose network cameras from Axis Communications is because of their outstanding image quality and reliability, as well as their sophisticated network features and capacity to build large scale systems. We also find strong confidence in Axis and their cameras for their worldwide market leadership and reputation as a highly appreciated brand," says Zhu Wei Ming, General Manager of Shanghai 3end Industrial Co., Ltd., the integrator for this network video surveillance system project.

Genuine remote surveillance and PTZ control

In comparison with traditional analog video surveillance systems, the most outstanding feature of network video

surveillance is that it is capable of fully utilizing the existing IP network system and cabling in SSRF's facilities, enabling seamless video access and genuine PTZ control of cameras.

In a traditional analog video surveillance system, cables for video, control, and audio are required each to respectively control PTZ cameras. However, with Axis network video technology, it is easy to transmit data which includes video, control, audio, management and other feeds via the network; the Axis network cameras are even capable of being powered via the network cable, using Power over Ethernet (PoE) technology. Besides, the cameras are fully standalone, which means that they can be easily relocated according to the actual application.

Bi-directional audio

IP technology not only allows the transmission and remote control of video via the network. It also enables the transmission of audio signals; not only can users access and monitor the video, they can also listen in and communicate with personnel on site. SSRF's technical experts are thus able to speak to maintenance personnel and operators on site without having to be physically present. This proved to be a highly convenient solution resulting in tangible cost savings.



"The research facility is so delicate that no researcher or staff is allowed to enter the SSRF system during its commissioning or operation. It is the Axis network video surveillance solution that enables remote monitoring of important equipment and key sites in SSRF." Client from SSRF company

