

Transforming analog to network video enhances surveillance solution. Axis video encoders enable SPI Lasers to create a safer environment for staff.



Organization:
SPI Lasers

Location:
UK

Industry segment:
Manufacturing

Application:
Safety and security

Axis partners:
iCode

Mission

Manufacturers need a safe and secure environment for their staff, and SPI Lasers, a designer and manufacturer of optical fiber-based lasers required a video surveillance system that could deliver real-time footage of its entire site. The organization was looking to invest in a new IP-based surveillance system while at the same time making the most of its existing investment in its analog cameras.

Solution

Due to its expertise in implementing video surveillance in high security environments, SPI Lasers turned to iCatcher partner, Reticom Data Networks, to provide an iCatcher Console recording solution from iCode and a range of cameras including AXIS 212 PTZ Network Cameras. Axis cameras are used in the manufacturing areas and provide a full overview and instant one-click pan, tilt and zoom with sharp image resolution. SPI Lasers is also using Axis video encoders to convert its analog cameras to IP.

Result

Thanks to its new surveillance system, SPI Lasers now has a safer and more secure environment for its staff and visitors. The organization's manned security desk has access to the iCatcher Smart Client which provides real-time access to all footage and playback displayed on a four screen video wall. The management team has immediate access to footage which means potential accidents can be avoided and creates a far safer working environment for its staff in both manufacturing and Quality Assurance.

"Thanks to our new video surveillance system we can now keep a close eye on all parts of our operations and continue to provide a safe and secure environment for all our staff and visitors."

Mark Bayliss, facilities manager, SPI Lasers.

SPI Lasers creates a safer environment for staff with video surveillance

SPI Lasers is a designer and manufacturer of optical fiber-based lasers used for cutting, welding, marking and micro-machining for use in materials processing applications in a wide range of industries. Manufacturing facilities need to be safe and secure environments in order to adhere to many rigorous health and safety rules for the creation of products and for the safety of staff and site visitors.

Video surveillance can add real value in these environments to ensure quality control and health and safety regulations are adhered to and also to help prevent against theft. SPI Lasers was keen to upgrade its existing surveillance system and heighten security and safety of its manufacturing environment. Mark Bayliss, facilities manager, SPI Lasers said: "The safety and security of our staff is a prime consideration for us at all times. We needed a surveillance system that would cover all of our sites and monitor our machinery to give us access to real-time footage."

A secure environment

SPI Lasers was keen to use surveillance cameras to monitor its dangerous machinery to ensure the right procedures and processes are followed to protect employees. Site security is also an important consideration for the organization to help prevent against theft and break-ins, so SPI Lasers required a surveillance system that could offer coverage of its entire site.

The surveillance system needed to cover the three buildings on the site, both internally and externally. Internally, this includes all entrances and exits, reception rooms, manufacturing areas, the warehouse and loading bays. Externally, the areas that needed to be monitored are the car park, road and gas plant, along with the emergency exit paths running along the side and rear of the building. A manned security desk in the main reception also required access to the live footage.

Real-time access

Having evaluated several security systems, SPI Lasers decided to work with Reticom Data Networks as it has an excellent track record in implementing surveillance systems in high security environments. Reticom provides IP-based surveillance solutions based on iCode Systems, iCatcher software, and it recommended that SPI Lasers deploy the iCatcher Console 5 as it is a completely scalable CCTV system. The iCatcher Console offers SPI Lasers a host of benefits such as motion detection, alerting, and flexible display options. It is compatible with a wide range of camera devices and can work with PTZ cameras for remote directional and zoom control and auto-tracking. Reticom selected cameras from a range of manufacturers, to suit the various areas of the manufacturing facility. As iCode is an Axis Partner, Reticom selected AXIS 212 PTZ Network Cameras for the manufacturing areas as they provide a full over-view and instant one-click pan, tilt and zoom with sharp image resolution.

AXIS 212 PTZ Network Cameras are ideally suited for indoor surveillance and those places where you need to see a whole area and zoom in to specific areas for a more detailed view. Keen to make the most of the analog cameras it had already installed some time ago, Reticom recommended that SPI Lasers convert them to IP using AXIS 241Q Video Encoders. Axis video encoders convert analog video signals into high quality, digital video streams that are sent over an IP network. The video servers' serial ports enable pan, tilt and zoom control of the cameras over the network. Now thanks to its new surveillance system, SPI Lasers has a safer, more secure environment for its staff and visitors to operate in. The company's manned security desk in the reception area now has access to the iCatcher Smart Client which provides real-time access to all footage and playback displayed on a four screen video wall.

SPI Lasers management team now has immediate access to footage that has meant potential accidents can be avoided and is creating a far safer working environment for its staff in both the manufacturing and Quality Assurance areas of the site.



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