

Project Brief

City of Westminster
College, London



State-of-the-Art London College Embraces IP Video Surveillance



End User

City of Westminster College

Country

UK

Vertical Market

Education

Partner

GES Security Services

Technology Features

Activity Controlled Framerate
Fixed and PTZ IP cameras
Automated event triggers
Power-over-Ethernet

Background

City of Westminster College has used IP Video technology from IndigoVision to provide integrated CCTV surveillance for its new flagship campus. Opened in January 2011, the £102m project involved the re-development of the College's site in Central London into a new state-of-the-art Campus. The integrated solution, based around IndigoVision's security management system, was designed and installed by GES Security Services.

Solution

The main security control room uses a four-monitor workstation running 'Control Center', IndigoVision's Video Management Software. Alarms from a Galaxy intruder system are directly integrated with the IndigoVision solution, allowing security breaches to automatically trigger any number of events within the IP Video system.

A total of 85 IndigoVision fixed and PTZ IP cameras are installed inside and outside the building. Many incorporate Power-over-Ethernet (PoE) technology, allowing them to be powered directly from the network, further reducing installation costs. All that is needed to connect additional cameras in the future is a local CAT-5 network point.

The new building makes use of lots of glass and open space, which creates a wonderful learning environment but brought challenges in terms of cabling and designing effective security without disturbing the building's aesthetics. GES worked closely with the College's own IT team to integrate IndigoVision's fully-digital distributed IP Video technology with the building and with the existing IT infrastructure. IndigoVision's low-bandwidth scalable architecture made the installation and deployment of the system very simple.

All cameras are recorded 24/7 on five IndigoVision Network Video Recorders (NVRs) for 30+ days. The amount of storage required is significantly reduced compared to other IP Video systems because of IndigoVision's advanced compression technology and the use of the unique Activity Controlled Framerate (ACF) feature, which is built into the IP cameras. ACF controls the framerate of the video stream based on the amount of motion in the scene. When there is no activity, video is streamed at minimal framerate; the instant any motion is detected, video is simultaneously transmitted at maximum configured framerate. This significantly reduces the bandwidth and NVR storage requirement for cameras monitoring generally static scenes or during quiet periods such as at night.

Benefits

- Activity Controlled Framerate and advanced compression technology reduce storage needs
- Improved quality and clarity of images for surveillance
- Low-bandwidth scalable architecture allows simple installation and deployment
- Automated events triggered by security breaches
- PoE allows cameras to be powered over network
- Cameras can easily be added and moved as campus grows

