

Jebel Ali Primary School Secure Their Territory with Axis Communications

THE PROJECT



FOSS was approached by Jebel Ali Primary School to provide a high performance IP CCTV security solution to cover all external areas of the school campus. Due to the large area that needed to be covered by the cameras and also the availability of suitable Power Over Ethernet (POE) network connections, the location of the high definition cameras was a critical aspect of the design. In addition, 30 day storage was

required with RAID/disc mirroring capabilities to ensure that all video recordings were stored and backed up.

THE IMPLEMENTATION

Axis High Definition Megapixel POE cameras were specified by FOSS. The school's existing Ethernet network equipment however was not capable of providing POE feeds and at the same time the available budget would not allow for the replacement of the existing Ethernet edge switches with POE capable switches.

As a consequence, the design included the use of POE injectors that preserved the investment made in the existing Local Area Network whilst delivering power over the structured cabling infrastructure to each of the camera locations.

AXIS IP CAMERAS

Two external IP camera types were specified from the Axis IP 13 Range:



AXIS P1354 Network Camera is a 1 Mega Pixel, fixed day and night camera with superb image quality, delivering excellent H.264 performance in a robust design. Superior video quality is provided with progressive scan in multiple individual H.264 streams, as well as Motion JPEG streams. With the help of the focus assistant, remote back focus and pixel counter features the installation is simplified.

AXIS P1354 offers high-performing video surveillance in both indoor and outdoor applications. It is perfect for securing locations such as governmental and industrial buildings, retail stores, airports, railway stations, schools and university campuses.

AXIS P1354 integrates Axis' Lightfinder technology. The outstanding light sensitivity, with maintained colors even in very poor lighting conditions, is obtained by a combination of Axis' expertise in image processing, system-on-chip development and selection of the best optical components.

OVERVIEW

Jebel Ali Primary School was founded in 1977 and is now one of the oldest schools in Dubai. The school has over 650 students and it aims to provide a high quality British style primary education based upon the framework of the National Curriculum for England and adapted to meet the varied needs of international school community, highlighting the richness and diversity of Emirati culture and history. The school has a wealth of experience and an enviable reputation for excellence.

REQUIREMENTS

- High definition IP CCTV system for external surveillance and perimeter fencing
- Off-site remote access to all cameras via web interface
- Intrusion event remote alarms
- Fault tolerant storage with back up

SOLUTION

- Axis Cameras 4 x 1357 IP Camera – 5 Mega Pixel
- Axis Cameras 8 x 1354 IP Camera – 1 Mega Pixel
- Axis Companion Video Management software suitable for up to 16 cameras
- Email alerts of security events and remote access via laptop or mobile device
- QNAP 19" Rack Mount - 8Tb storage in RAID5 mirror configuration – 30 days storage
- Real time Digital Watermarking of recordings.
- Power Over Ethernet injectors to deliver power to all POE Cameras

BENEFITS

- Superb image quality during both day and night
- High-performing video surveillance in both indoor and outdoor applications.
- Outstanding light sensitivity, with maintained colors even in very poor lighting conditions with the help of Axis' Lightfinder
- The iris control enables automatic and precise control of the iris position to optimize depth of field and lens resolution for optimal image sharpness
- To help minimize bandwidth and storage needs, the cameras provide digital pan/tilt/zoom and multi-view streaming, which enables several cropped view areas to be streamed simultaneously
- AXIS P1357-E comes with a wall mount bracket, sunshield and Ethernet cable, is protected from dust, rain, snow and sun, and can operate in temperatures from -40 °C to 50°C

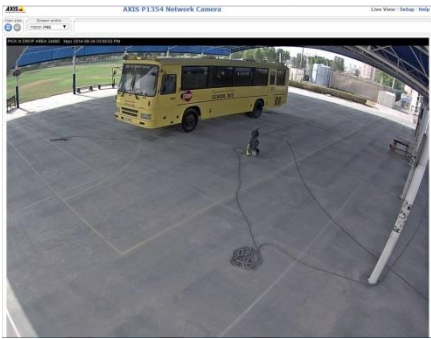
AXIS P1357 Camera View :
Ball Court



AXIS P1357 Camera View :
Field



AXIS P1354 Camera View :
Bus Gate



AXIS P1357-E Network Camera presents a top-of-the-line, 5-megapixel outdoor-ready network camera with HDTV 1080p performance, precise iris control for optimal image clarity and H.264 compression. It is suitable for outdoor use at airports, banks, shops, for city surveillance and any application that requires coverage of a large area or extremely high image detail.



The camera's revolutionary P-Iris enables automatic and precise control of the iris position to optimize depth of field and lens resolution for optimal image sharpness. DC-iris lenses are also supported for backward compatibility. The day/night functionality allows high image quality to be maintained even in low light conditions.

The IP66-rated AXIS P1357-E, which comes with a wall mount bracket, sunshield and Ethernet cable, is protected from dust, rain, snow and sun, and can operate in temperatures from -40 °C to 50°C (-40 °F to 122 °F).

To help minimize bandwidth and storage needs, the camera provides digital pan/tilt/zoom and multi-view streaming, which enables several cropped view areas to be streamed simultaneously. The camera supports multiple, individually configurable video streams in H.264 and Motion JPEG.

VIDEO MANAGEMENT SOFTWARE



Video Management Software - Axis Camera Companion Video Management Software was provided as part of the total solution. Camera Companion provides a full VMS solution for small to medium numbers of cameras deployments.

- Supports event based or continuous recording.
- Ability to export video clips
- View live video from one or many cameras.
- Remote and secure access to camera feeds from PC, iPhone, iPad or Android devices.
- More efficient storage of HDTV quality images with H.264 video compression
- Set your own recording options: scheduled or motion detection driven
- Eliminate cumbersome and unsightly electrical wiring with cameras powered through the network (Power over Ethernet)
- Powerful recording search functions with easy export of snapshots and video clips
- Multiple user access levels with password protection
- Easy control of pan/tilt/zoom cameras using mouse or joystick
- Support for 360° Panoramic views
- Multi-view streaming
- Axis' Corridor Format for effective surveillance of staircases, hallways and aisles
- Support for digital zoom
- One-way audio to easily listen in on an area
- Support for Public View Monitor (PVM)
- Extensive language support

