Video Surveillance in schools: The Challenge

Over the last decade, implementing advanced security in schools and college campuses has become a priority. Given its obvious advantages in situational awareness and investigation, the use of video surveillance is now achieving widespread adoption within school districts and on campuses.

While the choice to deploy video surveillance may be straightforward, many schools find that actually implementing a video solution and getting full value from their investment can be a challenge:

- A quality system represents a substantial investment, and many different components are required to put together a complete solution.

- All the various components must first be configured individually; then made to work with each other over the network; and finally, incompatibilities with legacy equipment that's already installed must be dealt with.

- In addition to the manpower costs of security monitoring, the ongoing technical management and maintenance of the systems can be significant.

- Not least, the high bandwidth and storage requirements of streaming video — known to challenge even high-end business networks — can place a crippling burden on the networks typically found in educational institutions.

So, while the hard cost of purchasing video equipment can be difficult to swallow, the less visible costs of putting it all together and making it work can be more than a school ever bargained for.

A Breakthrough Approach to Protecting Students and School Facilities

Using Intelligent Video Surveillance

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VIDEO**IQ**®

SMART VIDEO SURVEILLANCE

VIDEO**IQ**®

An intelligent alternative:
Automated event detection, built-in digital video recording and integrated video management — all driven by next-generation analytics

Introducing the VideoIQ iCVR — the world's first and only intelligent surveillance camera with a built-in digital video recorder.

The VideoIQ iCVR comes complete with all of the technologies necessary to deliver the most accurate surveillance solution available. This all-in-one product combines an intelligent camera, automated event detection, digital video recording, and integrated video management in a single, compact product driven by next-generation analytics.

The result is the simplest, most proactive video surveillance solution available to keep your school and its most prized assets safe. And for schools, it's the ideal approach for minimizing the costs of deploying video surveillance, while maximizing its security payoff.

The VideoIQ iCVR can protect your school by proactively monitoring:

- Access to school entrances
- Known trouble spot areas
- Predators lurking on or around school grounds
- Rapid crowd formation
- Loitering in stairwells, back entries
- Walls with potential graffiti issues
- Attempts to damage school ball fields
- Appropriate direction of travel in and out of school doors
- Off-hour visitors to sensitive areas such as computer or science laboratories, administrative offices, etc.
- Exhibit halls or campus museums

Proactive guarding at a fraction of the cost of conventional approaches

Ensuring security on campus is essential, yet paying staff to actively watch security monitors around-the-clock, even during times when "nothing is going on," is resource-intensive and costly. The VideoIQ iCVR turns this equation on its head. One hundred percent of video footage captured with the iCVR is actively monitored — by the camera system itself. Its next-generation analytics scrutinize the live footage in real-time, frame-by-frame, to detect conditions of possible threat, so a much smaller security staff — or even school administrators themselves — can verify and respond to real problems. Potential security breaches or threats are viewed using the VideoIQ View monitoring software which comes free of charge with the iCVR and can be easily accessed over the Internet. Rule violation alerts can also be sent via e-mail, enabling remote guards to know when issues arise, even if they are away from the monitoring center.

The iCVR's intelligent, automated detection captures a number of surveillance "behaviors" that provide a wide range of protection for schools such as:

Authorized entry into school buildings — The iCVR's Digital Doorman detects visitors and instantly alerts building personnel to verify guests before they enter. With one-button click release, visitors can be granted access, even if staff is not at the front desk.

Protecting the perimeter of select spaces during "off hours" — The VideoIQ iCVR can alert local or remote security personnel when there is unauthorized entry into a monitored space, such as a schoolyard, ball field or parking lot. An audible announcement can be delivered to inform the intruder he has been detected — usually driving the person off.

Loitering detection — The iCVR allows you to easily set up "regions of interest" in which you can quickly detect when someone is spending more than a few minutes in suspicious places such as stairwells, back entries, near school walls or other secluded spots. Responding quickly to this activity has proven to significantly reduce criminal acts.

Direction of travel monitoring — Many school buildings have designated exit-only doors, or one-way drives. The iCVR can be used to detect when a person or car is violating the allowed direction of travel, which can indicate someone entering a building secretly, or making off with a car.

Crowd formation monitoring — The spontaneous formation of a crowd often accompanies trouble. The VideoIQ iCVR can detect crowd formation instantly.

Virtual guard escort — The VideoIQ iCVR can be used to monitor and communicate with a student crossing campus at night. Acting as a virtual escort, the iCVR can be used to help prevent assaults in parking lots, which account for more than half of campus crime.

Exhibit protection — For schools with on-campus museums or other exhibits, the iCVR can be used to set up a "virtual tripwire" that set off alarms when visitors fail to keep the required distance between themselves and an exhibit.

Click and Search™ — With a click of the mouse, the VideoIQ iCVR will review recorded video to locate a particular person or car. A remarkably fast alternative to traditional forensic video scanning, Click and Search can be used to locate and track a perpetrator while still on campus.

Gaining the full value of video surveillance has never been so easy

VideoIQ's one-of-a-kind combination of automated event detection, a built-in DVR and integrated video management provides a complete, simple-to-manage solution that's built to make the most of your existing equipment and network. The iCVR eliminates the need for continuous video streaming across your network.

Video is stored at the edge, on the camera itself, and network capacity is only used to relay alarms to monitoring stations or view live video in response to an alarm. These alarms include lightweight, bandwidth-friendly video clips. Each iCVR can internally store up to three months worth of typical footage. To accomplish this, the iCVR operates in dual-mode: non-alarm footage is captured at low resolution to conserve storage space, while alarm footage is saved at the highest quality resolution and frame rate for forensic investigation and prosecution.

The VideoIQ iCVR can also be used to bring the cameras you already have installed up-to-date, and into the same powerful network. VideoIQ encoders can be connected to virtually any analog camera, including normal, day/night, infrared and thermal units, with no configuration changes required — giving them all the same advantages of VideoIQ smart surveillance. And the iCVR smoothly integrates with central archiving systems and third-party video management software.

And while ease of integration is an important issue, reliability and longevity are equally important. The iCVR is designed to be the most reliable and cost-effective IP video system to own and maintain. Its cameras never need calibration, and VideoIQ's patent-pending technology quadruples the expected life of the on-board hard drive compared to typical DVRs and NVRs.

The VideoIQ iCVR represents a breakthrough in IP video surveillance that can help schools take a proactive approach to protecting students and school facilities — at a fraction of the cost of conventional surveillance systems.