RETHINK CAMPUS SAFETY WITH ADVANCED ARTIFICIAL INTELLIGENCE TO DETECT A WIDE RANGE OF CONCEALED WEAPONS AND THREATS

HELP TO ENSURE STUDENTS CAN FEEL SAFE AND THRIVE WHILE AT SCHOOL

With an ever-evolving environment of safety threats and the intricacies of state and federal safety policies, establishing a holistic safety program can seem a daunting undertaking for any school administrator. School leaders must confront mounting challenges in keeping students safe amid rising violent crimes in many communities.

Traditional security solutions such as metal detectors and hand wands fall short of protecting students and faculty from unsafe incidents.
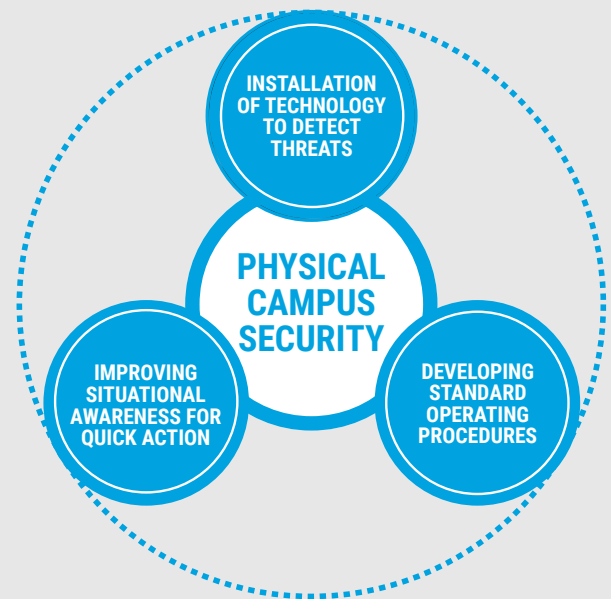
To balance freedom of movement and a safe learning environment, school leaders must take a meaningful and multi-faceted approach to security issues. One of the actions is to prevent any weapons from entering school premises. Motorola Solutions' Concealed Weapons Detection (CWD), powered by Evolv Technology, helps proactively keep people and campus safe by using advanced sensors and artificial intelligence to detect a wide range of concealed weapons and threats.

THE CHALLENGE

Integrating Security and Unrestricted Learning Experience on College Campuses in the U.S.

Campuses that are secure provide a better learning experience. However, today school leaders are faced with a conundrum on how to reduce security threats while maintaining free movement and discourse.

They must devise a thorough security plan based on physical and intangible components such as training exercises, investment in new intelligent technologies to create a secure campus (Moore et al., 2021). In the context of this whitepaper, we analyze physical security. A school leader's challenge is to focus on three critical aspects of physical security as shown below.

INSTALLATION OF TECHNOLOGY TO DETECT THREATS

PHYSICAL CAMPUS SECURITY

IMPROVING SITUATIONAL AWARENESS FOR QUICK ACTION

DEVELOPING STANDARD OPERATING PROCEDURES

According to a 2021 survey on video security usage and planning in schools, higher education, and hospitals conducted by Campus Safety, found that -

26%
say video surveillance system maintenance is extremely challenging or very challenging.

21%
describe their struggles with old cameras as extremely or very challenging.

10%
extremely or very challenged with managing video from many cameras.

8%
extremely or very challenged with finding a good integrator.

TRADITIONAL SOLUTIONS FAIL THE STRESS TEST

Colleges that need to scan hundreds of students per hour need a solution that is accurate while still being efficient. Traditional metal detectors and hand wands don't meet these needs, as they require students to stop and remove their personal belongings and require a large number of guard staff.

Traditional, antiquated security systems have longer screening time and cannot distinguish between a cell phone and a gun — generating high false alarm rates and creating a frustrating experience.

THE SOLUTION

Motorola Solutions' Concealed Weapons Detection (CWD), powered by Evolv Technology, is designed to address the active shooter epidemic by proactively keeping people and assets safe. It is a touchless security screening solution conducive to supporting post-pandemic security screening requirements.

Integrating Evolv's platform, Evolv Express, with Avigilon Control Center (ACC), Avigilon's AI-powered Video Management Software (VMS), will help security officers to see, understand, and act on threats with more speed and accuracy, making it possible to deliver safety while also enhancing the students' experience. If a threat is detected and confirmed on the CWD tablet device by a security screener, alarms are sent directly to ACC. Cameras on board the CWD system can simultaneously stream video to ACC and record alongside the fixed video security feeds installed at the venue.

TECHNOLOGY THAT MEETS YOUR SECURITY NEEDS FOR PRESENT AND FUTURE

QUICK AND ACCURATE ALERTS WITH ACC

CWD uses an innovative AI-based sensor platform designed to instantly distinguish between threats and personal items such as keys, coins, belts, and cell phones on their body or in their bag. It can detect weapons that include mass casualty metallic threats such as firearms and explosive devices.

Over time, CWD becomes more intelligent as new threat profiles are discovered to help your security team stay ahead of the changing threat landscape. Security teams can dial the sensitivity in for their venue and easily change it based on the threat scenario, event, or other intelligence. With an adjustable sensitivity level, security teams can manage all aspects of usage to enable safety and ensure a positive student experience.

EASY TO OPERATE

When a threat is detected, the CWD tablet displays the location of the potential threat on the person's body or in their bag using bounding boxes. Security screening operators using the tablet will confirm or verify the threat, which then triggers an alarm to be sent directly to ACC for notification to Security Operators in the form of an alert or warning in ACC's Focus of Attention interface. Cameras on board the CWD are able to simultaneously stream video to ACC and record alongside the fixed video security feeds that are installed at the venue.

POWER OF AVIGILON'S ANALYTICS CAMERAS

Avigilon analytic cameras provide high-quality images coupled with intelligence inputs to help you improve situational awareness and identify suspects carrying potential weapons, mainly if they run through the CWD sensors to evade detection and escape into the venue.

Security personnel can respond faster to critical events with built-in Next-Generation Video Analytics for enhanced object detection and classification. They can quickly identify people of interest with the camera's support for Facial Recognition and locate a person or vehicle across a site with Appearance Search support.

To provide the safest learning experience for students, colleges must take proactive action within their sphere of influence. One of the many actions that School leaders can take is prevention by building a secure facility for students and faculty. With the Concealed Weapons Detection system installed at the premises, schools can avert, protect and respond to threats faster than before.

MOTOROLA SOLUTIONS

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