MCA

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 and guidelines, 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) solutions, powered by Evolv Technology, helps to proactively keep your people and campuses safe by using advanced sensors and artificial intelligence to detect a wide range of concealed weapons and threats.

Industry Overview

· Education Sector
  · Public and Private K-12
  · Colleges and Universities
  · Vocational Schools

Featured Solutions

· Evolv CWD Scanners
· Evolv Express Software
· Avigilon Surveillance Cameras
· Avigilon Control Center
· Avigilon AI Analytics

Benefits Observed

· Improved Threat Detection
· Next-Gen Video Analytics
  · Advanced Search
  · Facial Recognition
  · Unusual Activity Detection
· Integrated Devices and Software
· Expanded Situational Awareness

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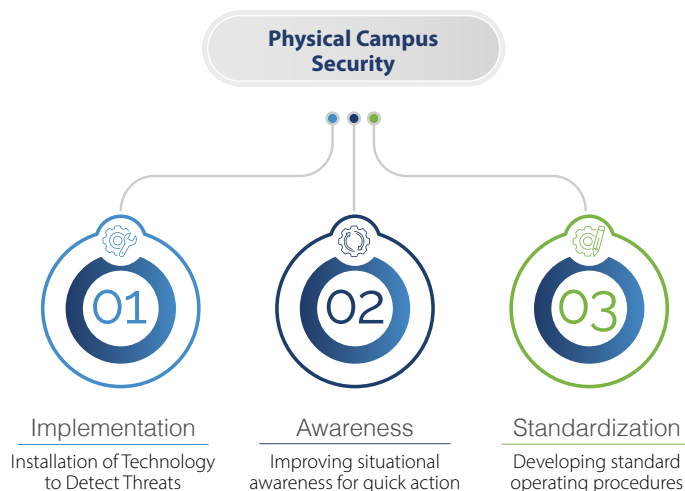
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The Challenge
Integrating Security and Unrestricted Learning Experiences Within Schools

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 also maintaining the free movement and discourse of students and faculty.

They must devise a thorough security plan based on physical and intangible components such as training exercises and new intelligent technology investments 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 pictured in the graphic herein.

Physical Campus Security

01 Implementation
Installation of Technology to Detect Threats

02 Awareness
Improving situational awareness for quick action

03 Standardization
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%
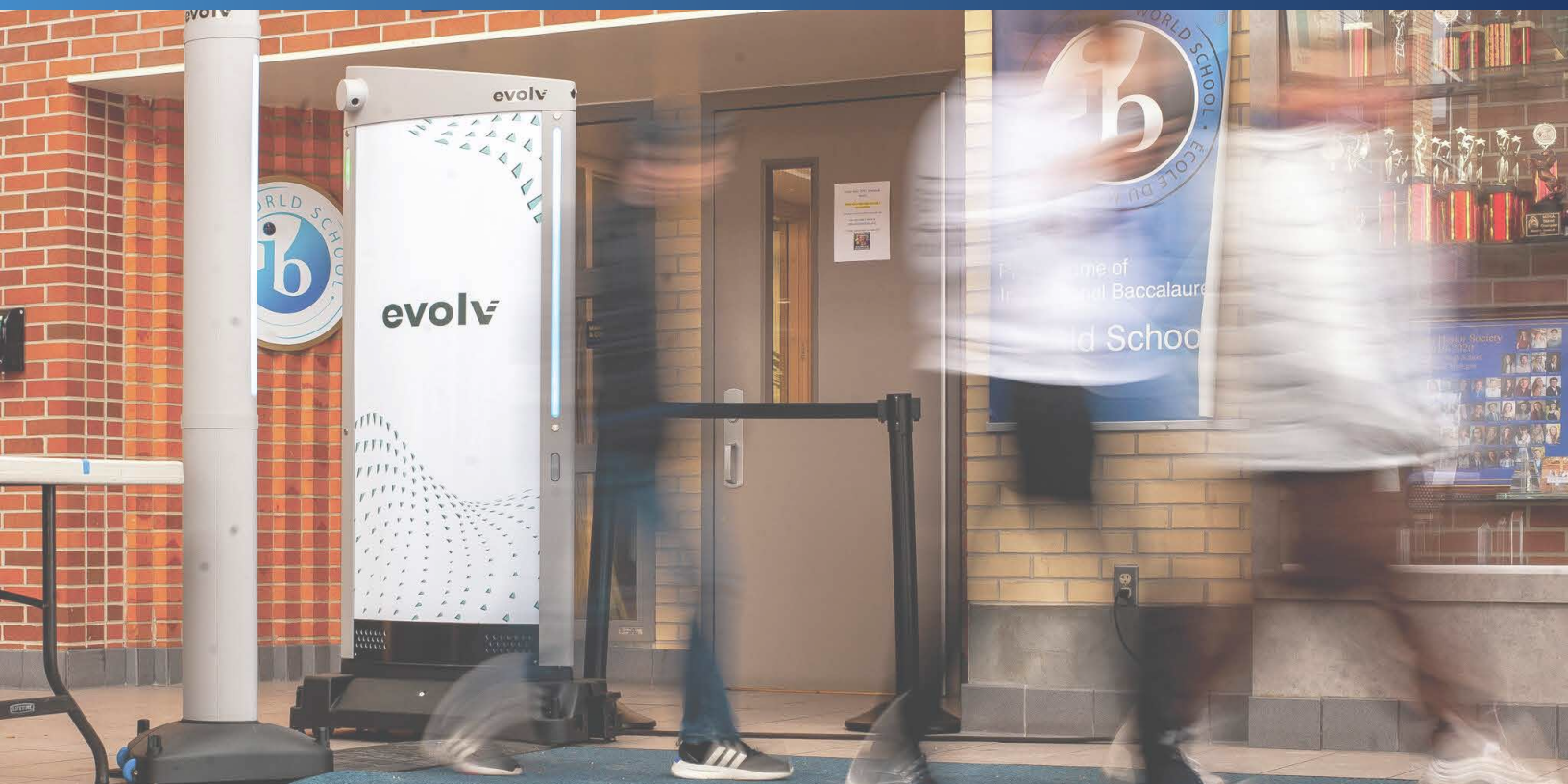it is extremely or very challenging to finding a solid integration partner.

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 each student to stop and remove their personal belongings and require a large number of guard staff.

Such antiquated, security systems have longer screening time and cannot distinguish between a smart phone and a gun — which generates high false alarm rates and creates a frustrating experience.

The Solution

Motorola Solutions' CWD — powered by Evolv Technology — is designed to address the active shooter epidemic by proactively keeping people and assets safe. It is a completely touch-less security screening solution that meets 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 school security personnel 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 bodies or in bags. 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.

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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.

Harness The 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.

About MCA

We are the trusted advisor for a safe, secure, and efficient workplace. MCA offers a carefully researched portfolio of voice, data, and security solutions. As your trusted advisor, we reduce the time and effort needed to research, install, and maintain the right solutions to make your workplace better. When you choose MCA, you're also connecting to our Service-First DNA. With our Managed Technology-as-a-Service (MTaaS) offering, you'll never be surprised by hidden costs or fees. We offer a flat, budget-friendly recurring cost without additional finance charges. Our team of experts will manage your solution from start to finish, giving you the best return on your investment.

When combined with our SecurePlan™ suite of tools and services, we proactively support our customers by ensuring SLA terms compliance — remotely troubleshooting and capturing information, monitoring for predictive signals such as drive failure alerts, thermal conditions, and network loads — to address them prior to failure, maximizing the uptime of your critical security systems. *Avoid training employees on how to use our solutions:* when you partner with MCA, we shoulder the burden of managing technology upgrades and creating road maps for future upgrades, while maintaining and supporting your solution throughout its' complete life-cycle.

CONTACT US TODAY TO ENGINEER AND DEPLOY ALL YOUR SCHOOL SAFETY SOLUTIONS

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