



DETECT. PREVENT. PROTECT. AGAINST A WIDE RANGE OF CONCEALED WEAPONS AND THREATS USING ADVANCED ARTIFICIAL INTELLIGENCE.

LEARN HOW YOU CAN REDUCE SCREENING TIME AND MAKE YOUR VISITORS, STAFF OR STUDENTS FEEL SAFE WITHIN YOUR PREMISES

While violent crimes can occur anywhere, they are more prevalent in North America. Violent crime rose 5.6% between 2019 and 2020 ([USA Facts, 2021](#)). Despite having only 5% of the world's population, the United States has witnessed over 31% of the world's mass shootings. In 2021 the US faced at least one mass shooting per day ([Forbes, 2021](#)).

Security professionals must grapple with the staggering increase in the violent crime rate and explore advanced alternatives to outdated conventional security devices like metal detectors and hand wands. Traditional security systems are prohibitively slow to use while screening many visitors, students, or employees for concealed weapons. A single error might lead to unsafe conditions that may turn fatal.

One of the actions you can take is to prevent any weapons from entering your premises. Motorola Solutions' [Concealed Weapons Detection \(CWD\)](#) helps proactively keep people, students, ardent fans, campuses, stadiums or critical buildings safe by using advanced sensors, analytical cameras and artificial intelligence to detect a wide range of concealed weapons and threats.





THE CHALLENGE

ELIMINATING SECURITY CHECKPOINTS AS BOTTLENECKS AND SPEEDING UP THE FLOW OF VISITORS, STUDENTS OR FANS WITHOUT COMPROMISING THE DETECTION OF CONCEALED WEAPONS

Security teams consistently look for solutions to make the time-consuming screening process more productive without compromising safety. Long queues and long wait times can lead to a resource crunch and frustrate both your visitors and security operators. A 2021 survey on video security usage and planning in hospitals, schools and higher education, 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.

In the context of this whitepaper, we analyze the physical security of a site. A security leader's challenge is to focus on three critical aspects of physical security.

- I. Installation of threat detection systems that are accurate and efficient.
- II. Developing standard operating procedures for security operators.
- III. Improving overall situational awareness for quick action.

CONVENTIONAL SECURITY SOLUTIONS WERE NOT BUILT FOR TODAY'S NEEDS AND ARE UNRELIABLE

Hospitals, colleges, major communication facilities, Civil defense installations, stadiums and concert venues that must screen hundreds of people per hour need an accurate solution while still being efficient. Conventional metal detectors and hand wands usually require visitors to stop and remove their personal belongings, which adds a strain on your current security staff. They tend to have longer screening time and cannot distinguish between a cell phone, keys and a gun – generating high false alarm rates and creating delays and frustrating experiences for the visitors.

THE SOLUTION

Motorola Solutions' [Concealed Weapons Detection \(CWD\)](#), powered by Evolv Technology, is designed to proactively keep people and assets safe. It is a touchless security weapon screening solution that supports post-pandemic security screening requirements.

Integrating Evolv's platform, Evolv Express, with [Avigilon Control Center \(ACC\)](#), Avigilon's AI-powered video management software (VMS), helps security officers see, understand and act on threats with more speed and accuracy. This makes it possible to deliver safety while also enhancing the visitors' 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 visitor 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. The security screening operator using the tablet will confirm or verify the threat, which then triggers an alarm to be sent directly to ACC to notify security operators in the form of an alert in ACC's Focus of Attention interface. Cameras on board the CWD tower simultaneously stream video to ACC and record alongside the fixed video security feeds that are installed at the venue, providing greater situational awareness.



AVIGILON'S POWERFUL ANALYTIC-ENABLED 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 [Avigilon Appearance Search™](#) support.

To protect against large-scale or small-scale threats, security leaders must provide a visible layer of security screening, whether to protect patients, students, fans, patrons or host a sporting event or megastar concert. With a CWD system installed on the premises, security teams can avert, defend and respond to threats faster than before.



To learn more about Concealed Weapons Detection, contact [your local Avigilon Sales Representative](#).

