

# DETECT & DETER

Staying safe in a facility is all about detecting the threats and, better yet, deterring their use by having secure systems in place.

**WORKING** in harmony, security devices detect cell phones, guns, knives, drugs and other contraband in multiple ways, defend the facility and deter threats by their very presence. These systems work together to prevent in-body, on-body, package and perimeter hides and drops.

Focusing on metal-based contraband, CEIA USA's equipment matches threats with solutions. "The illegal use of cell phones is a growing and dangerous problem in correctional institutions worldwide," says Marilyn Thaxton, marketing manager, North America. "These devices are a significant threat to prison security and circumvent the monitoring processes in prisons, while helping inmates commit new crimes both inside and outside the facili-



Berkeley Varitronics Systems Inc.'s Manta Ray ferrous wand is ideal for quick contraband sweeps.

ty. In addition, the need for the detection of a variety of metal threat objects going into and around prisons continues to be critical for the safety of inmates and corrections officers." Critical advantages of CEIA metal detectors, she cites, include discrimination, detection and immunity.

Discrimination is the ability to alarm for threat items such as guns and knives, while not alarming on innocuous items, like belts, watches, and keys. As for detection, "once you set a CEIA metal detector to a certain security level we assure the detector meets or exceeds the security standard that corresponds to that security level," she continues. And immunity means metal detectors need to work in a variety of locations that present unique challenges. Electrical and mechanical interferences can disrupt screening operations as they are seen as noise by the metal detectors. "CEIA metal detectors have built-in functions to recognize these noises and filter them without affecting screening operations," she adds.

Thaxton notes several models encompassing the CEIA lineup.

The CEIA SMD600 Plus multi-zone walk-through metal detector offers discrimination and detection uniformity, providing accurate pinpointing of individual and multiple metal targets, with analysis of all parts of the body of the people in transit, from the shoe level to the detector's crossbar.

The CEIA MSD (Magneto Static Detector) is a one-piece, portable, covert/overt detector specifically designed to look for cell phones where the use of a walk-through metal detector may not be applicable, Thaxton describes. The MSD detects all transmission devices containing magnetized parts including cell phones, radio transceiver, smart phones, etc.

The PD240c CEIA's new generation handheld metal detector, combines high reliability with advanced detection and operator signaling features, she says. "In addition, the CEIA PD240 offers full compliance

with the latest NIJ security standards, indoor or outdoor use, and up to 100 hours of continuous operation on a single charge of its rechargeable batteries."

EMIS-MAIL is designed to detect a wide variety of metal threat items including detonators, batteries, trigger circuits, and other metal components of parcel bombs, according to Thaxton. It is uniquely qualified to operate in a prison or correctional facility

environment with specific settings available for prison parcel inspection. "Just as security threats continue to grow and evolve, correctional facilities must continue to utilize state-of-the-art security solutions," she sums up.

Michael Frunzi, Ph.D., senior business development manager at Smiths Detection, talks about what he considers the most problematic contraband items: drugs and small concealable objects that

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## CEIA Metal Detectors for Correctional Facilities

PD240 Hand-Held Detector

SMD600 Plus WTMD

Our threat detection and screening systems take the guesswork out of security screening. Incorporating the latest in threat detection technology, CEIA sets the standard for safety, convenience and accuracy.

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can be used as weapons, such as razor blades. "Inmates ingest contraband prior to entering correctional facilities, which makes traditional search methods ineffective." The solution is screening every inmate with a full body X-ray scanner, he says. Not only can contraband be seen beneath clothing, but it can also be seen inside the digestive tract and within body parts and cavities.

The Smiths Detection B-SCAN is a full body X-ray scanner designed to screen inmates from head to toe, he explains. "Oftentimes inmates voluntarily surrender contraband when they learn they will need to be screened prior to entering the facility. Stopping contraband at the door is much more effective than trying to find it within the facility."

In the past the only way to detect this type of contraband swallowed and concealed within the digestive system was to have a medical facility do an X-ray, which does not encompass the full body, or by placing the inmate in a dry cell and waiting for the contraband to pass naturally. "Both of these methods take time and dedicated manpower. The B-SCAN can screen an inmate in seven seconds, greatly reducing the time and effort previously spent to search inmates," says Frunzi.

He adds that employing multiple screening technologies is the recommended way to go. "The



Senstar's FlexZone locating intrusion detection sensor reduces contraband introduction through intrusion.

key to winning the war on contraband is to adopt a layered approach to security. By implementing several security screening technologies, facilities aren't relying on just one, which will increase success, because no detection method by itself is 100 percent foolproof."

While focusing on cell phone threats, "Our work in cybersecurity and wireless test, security and safety products has culminated in many solutions all centered around the principle of security in layers," points out Scott Schober, CEO of Berkeley Varitronics Systems, Inc. "No single solution can stop contraband phones in prisons. Multiple technologies, depart-

ments and personnel must be working in harmony in order to effectively reduce the amount of contraband in any prison.

"Of all the contraband that makes its way into our prisons, cell phones are among the most dangerous because they allow criminals both inside and outside of the prison walls to communicate freely," he says. This communication has led to many violent attacks, death threats, riots and prison escapes affecting much more than just prison populations.

When powered on, all cell

## Smiths Detection Tool Deployed In Josephine County Jail, Grants Pass, Ore.

"Drugs are a problem in any facility and I was looking for a better way to address that problem, says Sheriff Dave Daniel. "Josephine County led the charge to bring the technology to multiple correctional facilities in Oregon and we saved a significant amount of money by buying a group.

"We have found knives, heroin, and meth. We find it, whether it's in their mouth or the other end. The tool [the Smiths B-SCAN, full-body X-ray scanner] is a part of the job for the staff, just like any other. It's just an extra measure.

"We have an amnesty box where inmates can voluntarily forfeit anything they might have without facing charges. Everybody knows the tool has been successful." —G.F. Guercio



Sheriff Dave Daniel of the Josephine County Sheriff's Office in Oregon deploys the Smiths Detection B-SCAN, a full-body X-ray scanner, to address contraband problems.



Berkeley Varitronics Systems' Yorkie cell phone detector is covert and pocket sized.

phones emit energy which contains a specific signature that is unique and can be identified among many other typical wireless energy sources. This allows correctional officers to identify an active nearby cell phone rather than an active nearby guard's walkie talkie for example, Schober says. "Yorkie is a cell phone detector that can be discreetly operated from inside any pocket to deliver alerts to guards without alerting the prison population. The receiver detects voice, texting and data use over 100 feet away and even a phone that is on but not being used." When coupled with a directional-finding antenna, sensitive receivers such as Wolfhound-Pro detect cell phones up to 200 feet away and also allow security personnel to locate the phone and its user.

When powered off, cell phones still contain signature components detectable by highly-sensitive ferromagnetic devices, he explains. Ferrous detectors such as SentryHound-Pro are sensitive enough to detect modern smart phones constructed mostly of

plastic. "Our portable ferrous detectors are lightweight, AC or DC powered and can be set up anywhere in less than 30 seconds for impromptu scans. Our ferrous detectors are even sensitive

## **"Stopping contraband at the door is much more effective than trying to find it within the facility."**

**— Michael Frunzi, Ph.D., Smiths Detection**

enough to detect contraband inside body cavities." Ferrous wands such as Manta Ray are lightweight and have a detection range up to about six inches so they are ideal for quick contraband searches of both clothing and small packages.

"Another growing category of contraband detection is our fixed deterrents and alert systems. These products are typically used as deterrents in visitation or office areas of secured facilities. These products are mounted on portable stanchions or directly to

any wall providing all day wireless monitoring without any operation from security personnel." When nearby phone activity is detected, an audible and visual alert will notify security staff and others including visiting family, lawyers and staff. "Due to the recent allegations and lawsuits of overly-invasive searching of visitors, deterrents and alerts are a safe and important way to remind everyone that security protocols can be breached intentionally or accidentally by any visitor," he says. "This goes right back to our original principle of layered security. It only works effectively when multiple technologies are employed and everyone follows the rules."

## **Perimeter Intrusion**

Contraband in correctional facilities is a serious concern and threatens the safety of staff, inmates and even the general public, agrees Stewart Dewar, Senstar product manager. "Contraband can enter a facility via smuggling by visitors, com-

promised staff, or hidden within deliveries, as well as by breaching the perimeter of inmate yards via fence drops or drone delivery."

There are many new technologies on the market to detect non-metallic contraband at managed entrances: X-rays, millimeter wave, and thermal devices for cavity inspection, plus a wide range of new technologies for drone detection, Dewar notes. "However, an effective contraband control

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The Sentryhound-Pro from Berkeley Varitronics Systems Inc. detects contra-band cell phones on or off.

plan needs to be grounded in an effective, trusted perimeter intrusion detection system that provides surveillance of the perimeter against prisoner egress, minimizes the workload on the security officers, and can contribute to detecting hand-offs of contraband through or over the perimeter wall or fence.”

Outdoor people-tracking video analytics can be especially helpful for detecting fence drops, he says. Most correctional facilities have a wide buffer area between their outer perimeter and the general public. Thermal cameras can detect persons approaching the buffer zone day or night, and direct low light, high-quality PTZ cameras add further assessment. “Video analytics leverage the existing video surveillance infrastructure, mak-

ing them a relatively easy technology to test and subsequently deploy,” Dewar adds. “If the overall perimeter of a correctional facility is secure, vital resources can be directed elsewhere, including to prevent contraband.” And the combination of the methods to detect and deter threats, including metal detectors, X-ray scanners, cell-phone locators, and perimeter intrusion surveillance devices, layer to protect the facility and those inside and out. ✪

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