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P&S TV

POLICE NEWS

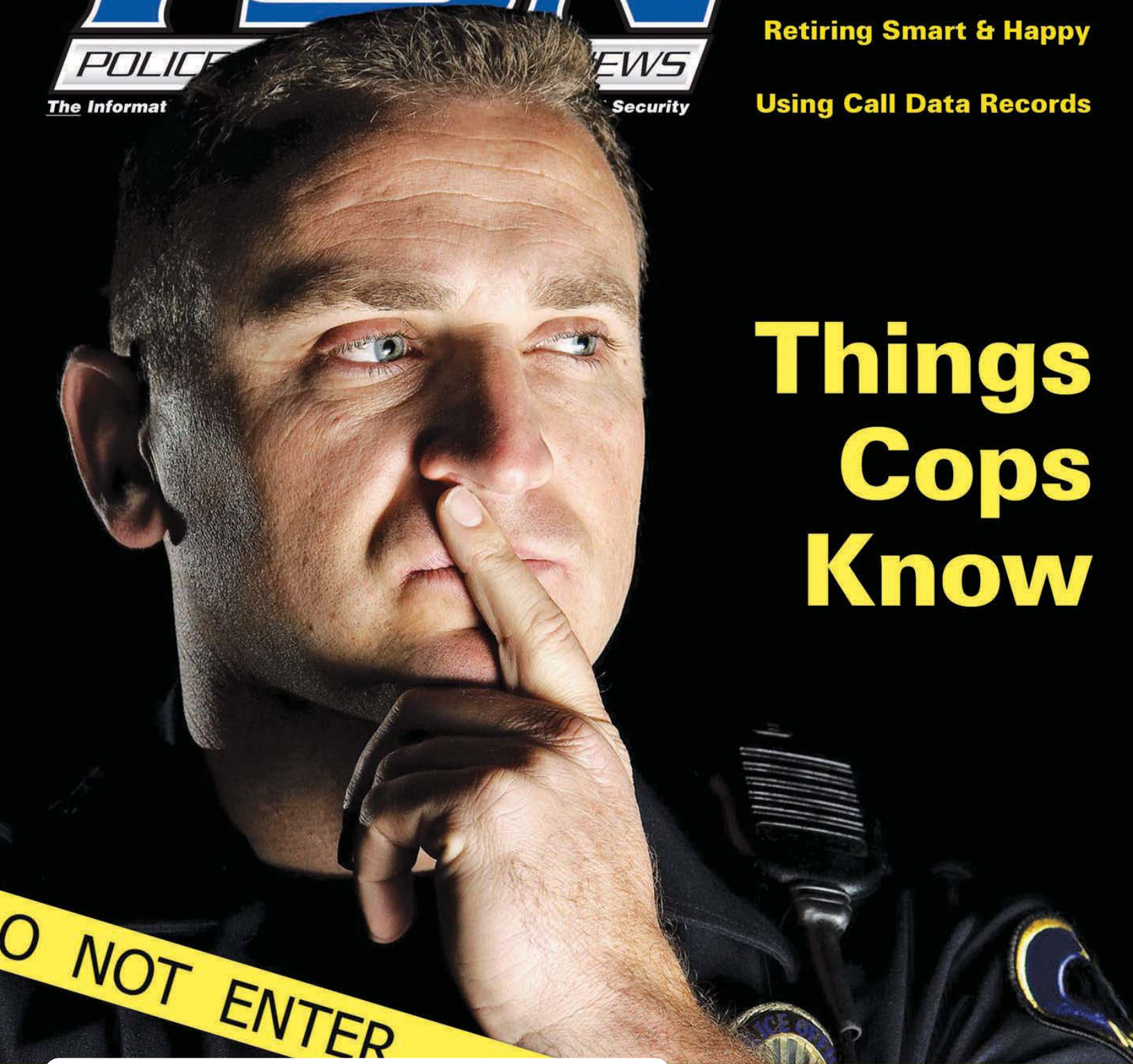
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The World's First Handheld Z Backscatter Imaging System



Bill Siuru, Ph.D, PE

This new, compact, single-sided imager can easily scan objects in hard to reach areas.

Someone calls in a report of a suspicious package unattended in a building. Could it be harmless or a highly dangerous IED (Improvised Explosive Device)? You want to know before you send your officers to identify and safely dispose of it.

American Science and Engineering, Inc. (AS&E), a longtime provider of threat and contraband detection equipment, now offers a practical solution, its new MINI Z™ Handheld Z Backscatter® Imaging System. Among other applications, it can quickly screen unattended and suspicious bags

and packages for potential terrorist threats in public spaces.

Backscatter X-ray technology is not new. AS&E, who pioneered the use of Z Backscatter X rays for security applications almost 30 years ago, has developed a number of different systems which use the technology to inspect cargo, vehicles, parcels, baggage and personnel. AS&E's Z Backscatter Van (ZBV®) has been deployed in 65 countries and is responsible for hundreds of seizures of potential threats and contraband.



The MINI Z™ Handheld Z Backscatter® Imaging System consists of a compact scanning unit and a dedicated tablet for controlling the unit and image viewing.

Portable

Z Backscatter X-ray technology is very useful for fast, real-time detection of hidden organic threats. Unlike traditional transmission X-ray machines which depend on X rays passing through an object to produce images, Z Backscatter X-ray systems capture the data from X rays which are scattered away from an object. The Z Backscatter image is bright white where X rays scatter the strongest, indicating organic matter which make it ideal for detecting the organic materials (e.g., drugs, polymer guns, ceramic knives, explosives, etc.) which transmission X-ray systems can miss. Inorganic materials, such as metal, are also given shape and form in Z Backscatter images.

AS&E has developed, and is now offering, the world's first handheld Z Backscatter Imaging System based on its Z Backscatter detection technology. It took its ZBV system and miniaturized it, making it more affordable and accessible to a broader range of customers. The MINI Z system's single-sided imaging and compact size offer unsurpassed operational flexibility, scanning effectively "on the go" in the hardest to reach environments.

The compact MINI system can be used to scan objects in unattended bags, backpacks, or packages in a subway or bus. Unlike density meters and trace detectors, the MINI Z system produces an easy to interpret image to quickly detect organic threats and contraband behind nonmetallic surfaces.

Ready to Go

In contrast with portable transmission X-ray systems, the MINI Z system is self-contained and does not require setup, meaning it is ready for immediate operation. The operator controls the scanning function using a simple, intuitive GUI (Graphical User Interface) on the dedicated tablet which also displays the image of the scanned target in real time. The MINI Z system conforms to the appropriate ANSI, ICRP, NCRP, and EURATOM radiation safety standards and is safe for operators, bystanders and the environment. Of course, the system must be used in accordance with the manufacturer's instructions, as well as applicable laws and regulations.

Besides law enforcement, MINI Z can be used at border and security checkpoints to inspect vehicle bumpers, tires, panels and interiors. It can be

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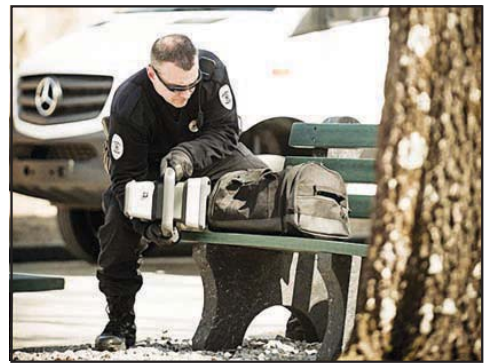
The Pro-Bar –

A 30 inch Halligan-type forcible entry tool. One piece construction. Length: 30" Weight: 8.5 lbs., Ship. wt. 10 lbs. \$225.00

Li'L Pro-Bar –

Type "A" lockpuller on adz and gas shut off key on fork. Length: 12", Weight: 2 lbs., Ship. wt. 3 lbs. \$65.00

Mini Pro-Bar – Diamond knurled grip, type "A" lockpuller on adz, and gas shut off on fork. Length: 20", Weight: 3 lbs., Ship. wt. 4 lbs. \$80.00



The MINI Z™ system is self-contained and does not require setup, meaning it is ready for immediate operation.

used to investigate suspected drug labs for drugs or currency and to sweep meeting rooms and furniture at VIP events. It can scan for contraband at sporting and entertainment events. It can screen ship hulls and bulkheads, as well as inspect the seats, compartments and panels in small airplanes.

About the Author: Bill Siuru is a retired USAF colonel. He has a Ph.D. in mechanical engineering from Arizona State University. His military assignments included teaching engineering at West Point, commander of the research laboratory at the U.S. Air Force Academy and Director of Engineering at Wright-Patterson AFB. For the past 35 years, he has been writing about automotive, aviation and technology subjects.

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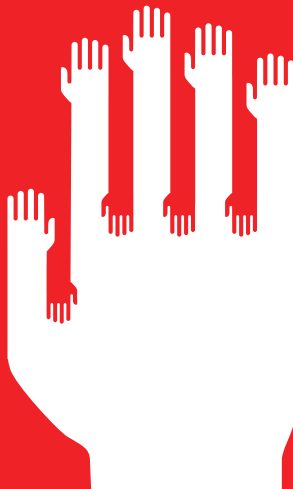
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