Rapiscan Systems | AS&E

AS&E CARVIEW

Rapiscan systems Eagle® G60

EAGLE M60 ZBx

AS&E Z PORTAL

Part of the OSI Systems family of security companies

Rapiscan® systems | AS&E®

IN A WORLD WHERE THREATS CONTINUE TO EVOLVE and concealment techniques are becoming more sophisticated, our customers are facing more complex, difficult missions than ever. Every day, we strive to create screening solutions that are on the cutting edge of innovation, using the most advanced technology, to help them solve their detection challenges.

We deliver products and services that help our customers find threats and contraband with ease and confidence, while maximizing operational efficiency. Our global service network enables us to respond to customer needs quickly and provide exceptional support, because we know that every moment of uptime is critical.

We understand the importance of our customers' missions — from uncovering trade fraud, to combating terrorism, to detecting drug and weapons smuggling, to exposing illegal immigration. That's why it's our mission to help them succeed.
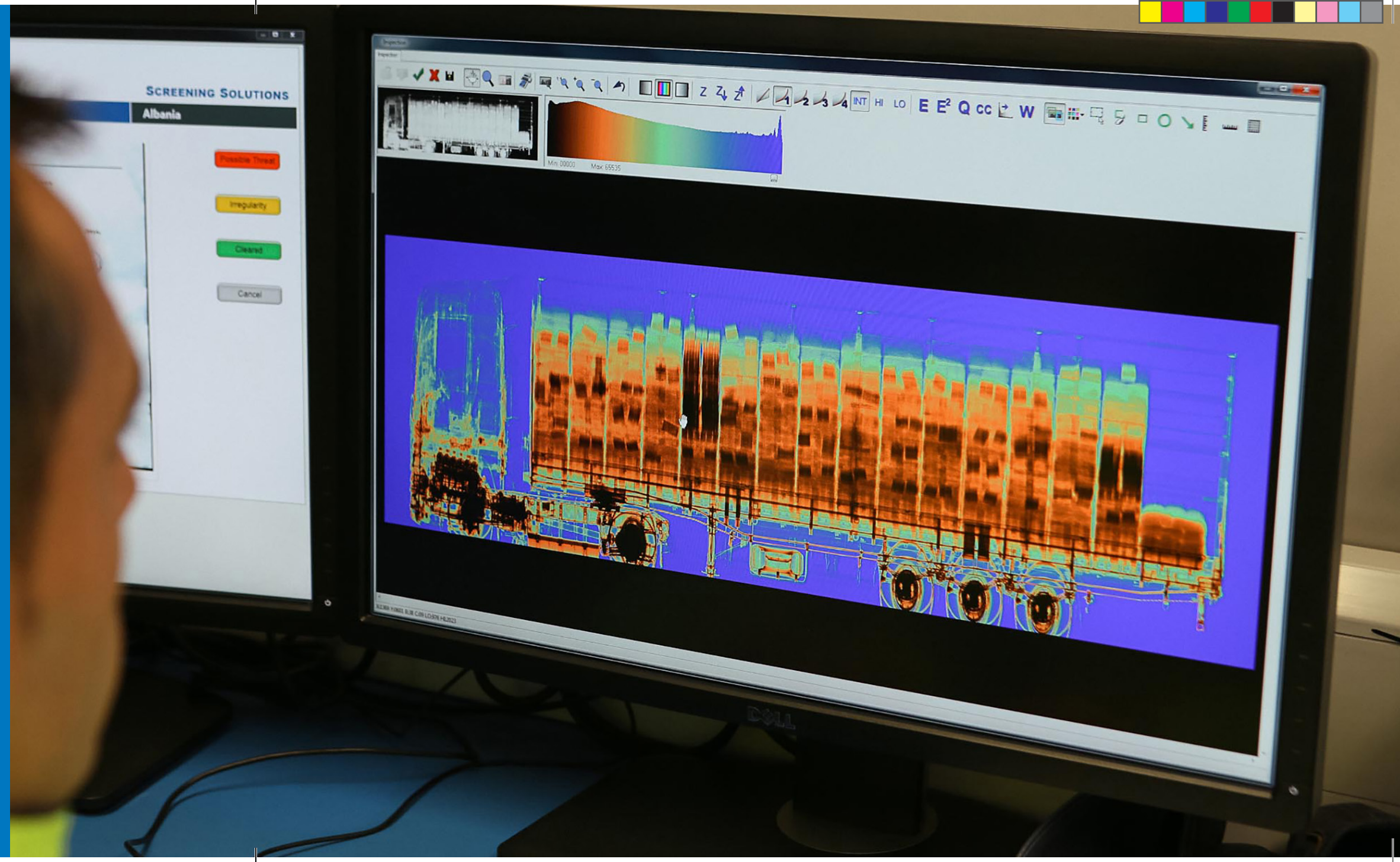
REAL-WORLD EXPERIENCE YOU CAN RELY ON

Elite customers in strategic markets choose **Rapiscan Systems | AS&E** to help them protect critical borders, ports, high-threat facilities, and checkpoints. With more than 2,000 cargo and vehicle inspection systems sold in over 100 countries around the world, we have established an unparalleled global service, parts, and manufacturing network equipped with local market knowledge to ensure each customer receives a timely and efficient response.

Our customers rely on us to maintain the continued operation of their screening solutions — and we strive to consistently provide the unsurpassed service and support they have come to expect from our organization.

INDUSTRY-LEADING TECHNOLOGY TO HELP YOU FIND THREATS AND CONTRABAND

Best-in-class images start with cutting-edge X-ray technology. With more than 75 years of collective experience in X-ray imaging and a commitment to innovation, our advanced technology facilitates detection of a multitude of threats and contraband, ensuring our cargo screening systems meet the most demanding requirements.

- **High-energy, dual-energy transmission** technology penetrates dense cargo to generate colorized X-ray images that discriminate between organic and metallic materials

- **Z Backscatter® technology** provides photo-like images that highlight organic threats and contraband, including explosives, currency, and drugs

- **Complementary imaging** uses both transmission and Z Backscatter technologies for improved manifest verification and threat detection

Best-in-class X-ray technology
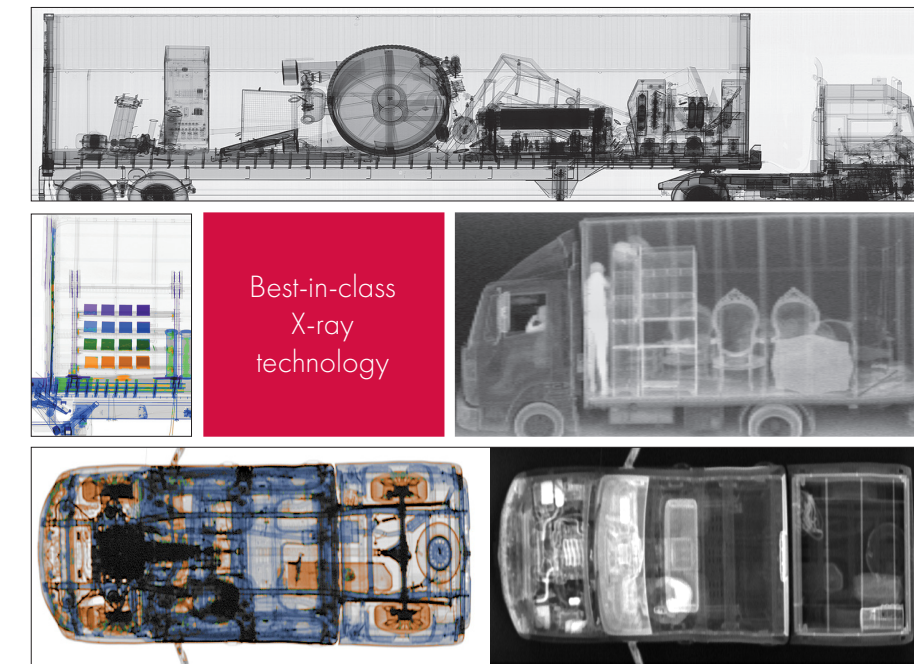
TOP: High-energy transmission; **MIDDLE LEFT:** Dual-energy transmission with material discrimination; **MIDDLE RIGHT:** Z Backscatter; **BOTTOM:** Complementary imaging with transmission and Z Backscatter

THE RIGHT SOLUTION FOR YOUR MISSION

FROM THE LEADING PROVIDER OF CARGO SCANNING PRODUCTS AND SERVICES

Whether you need to scan vehicles at a busy checkpoint, screen densely loaded cargo at a congested port, or simply require a screening system that delivers high value at a low cost of ownership, our deep industry expertise and broad array of screening systems ensure we can define and deliver the ideal solution for each mission.

Our range of high-to-low energy cargo and vehicle screening systems comes in a variety of configurations — mobile, portal, gantry, rail, trailer, air cargo, and handheld — and many leverage multiple X-ray technologies to simultaneously provide multiple views of the scanned object for greater assistance with detection.

Our commitment to excellence in imaging performance, innovative design, and uncompromising quality means our solutions consistently deliver best-in-class imaging, high reliability, and operator satisfaction, to help you find more threats and contraband with ease and confidence.

Rapiscan systems | **AS&E**

PRODUCT	DESCRIPTION	INSPECTION	PLATFORM	ENERGY LEVEL	X-RAY TECHNOLOGY
PORTAL	High-throughput, drive-through screening of passenger vehicles, trucks, and cargo	CarView™		225 keV	TX BX
		Z Portal®		225 keV	BX TX
		Eagle® P25		2.5 MeV	TX
		Eagle P60		6 MeV	TX
		Eagle P60 ZBx		6 MeV	TX BX
		Sentry®		7.5 MeV	TX
		Sentry + Z Portal		7.5 MeV	TX BX
GANTRY	Powerful X-ray imaging system on rails for scanning dense cargo and vehicles	Eagle C25		2.5 MeV	TX
		Eagle G60		6 MeV	TX
		OmniView®		6 MeV	TX
		OmniView ZBx		6 MeV	TX BX
MOBILE	Rapidly deployable, relocatable screening for space-constrained or remote applications	ZBV®		225 keV	BX TX
		Eagle M25		2.5 MeV	TX
		Eagle M60		6 MeV	TX
		Eagle M60 ZBx		6 MeV	TX BX
TRAILER	Rapidly deployable, relocatable imaging on a towable trailer	Eagle T25		2.5 MeV	TX
		Eagle T60		6 MeV	TX
RAIL	Rapid, high-energy scanning for rail cargo applications	Eagle R60		6 MeV	TX
		Eagle R90		9 MeV	TX
AIR CARGO	Powerful inspection of air cargo containers and pallets	Eagle A25		2.5 MeV	TX
HANDHELD	On-the-go detection of drugs, currency, and organic threats	MINI Z®		120 keV	BX TX

TX **Transmission** — Uses high and low energies to produce colorized X-ray images that discriminate between organic and metallic materials, facilitating operator image analysis

BX **Z Backscatter** — Provides photo-like images that highlight organic threats and contraband, including explosives, currency, and drugs

PORTAL

Our range of high- and low-energy portal systems offers drive-through screening of cars, trucks, and cargo to assist with the detection of explosives, drugs, alcohol, and other contraband. Ideal for heavy traffic gateways, our high-throughput portal systems deliver superior imaging and operational flexibility to help protect against trade fraud and threats, without slowing the flow of commerce.

Three-sided Z Backscatter® images and top-down transmission X-ray image

High-energy transmission X-ray with material discrimination

CLOCKWISE FROM TOP LEFT: CarView™; Eagle® P25; Z Portal®; Eagle® P60 ZBx; Sentry® Portal; Eagle® P60

GANTRY

Our high-performance gantry inspection systems use the industry's most advanced imaging technologies — high-energy transmission and Z Backscatter® — to reveal threats and contraband and verify contents in dense cargo, alleviating the need to manually inspect each container. With our material discrimination technology, operators can visually differentiate classes of material such as low-density drugs and high-density weapons. Our offering also includes a gantry for scanning occupied or unoccupied passenger vehicles.
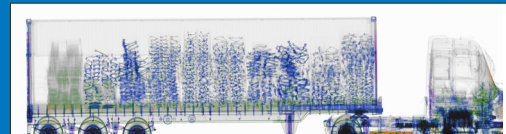
TOP: High-energy transmission image
BOTTOM: Dual-energy transmission image with material discrimination

CLOCKWISE FROM TOP: Eagle® G60; OmniView® ZBx System; Eagle® C25; OmniView® System

MOBILE

For remote or space-constrained environments, our range of high-to-low energy mobile screening systems provides a flexible, easily maneuverable solution for cargo and vehicle screening at seaports, border crossings, and checkpoints. Whether inspecting dense cargo or screening passenger vehicles for threats and contraband, our mobile screening systems deliver real-time transmission and Z Backscatter® images for rapid analysis.

TOP: High-energy transmission image
BOTTOM: Z Backscatter image

CLOCKWISE FROM TOP LEFT: ZBV® System; Eagle® M25; Eagle® M60

TRAILER

Our trailer-mounted, drive-through X-ray inspection systems deliver fast, accurate, and efficient cargo screening to verify contents and identify the presence of hidden contraband, such as weapons, explosives, and drugs. The trailer is fully self-contained and easily towed and deployed — an ideal solution for changing operational requirements at locations such as seaports, border crossings, and checkpoints.

Transmission image of a trailer and cab using CabScan® mode

TOP: Eagle® T60; BOTTOM: Eagle® T25

RAIL

Our high-energy rail systems deliver automated, rapid scanning of rail cargo as it passes through the system. Our cutting-edge rail cargo systems support single- or multi-track operations as well as single-direction or bi-directional scanning, and scan all types of non-passenger rail freight — including cargo containers, double-stacked containers, and two 20-foot containers on rail cars.
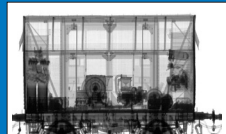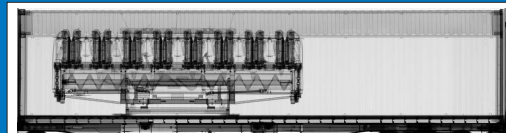
TOP: Transmission image of a 40-ft container
BOTTOM: Transmission image of a rail car

TOP: Eagle® R60; **BOTTOM:** Eagle® R90

AIR CARGO

With high-penetration and best-in-class imaging, our powerful, high-energy air cargo screening systems safely and efficiently inspect single- or mixed-commodity air cargo pallets and containers. Designed specifically for air cargo facilities and operations, the systems automatically scan cargo as it moves through the inspection tunnel, maximizing throughput to support busy inspection operations.
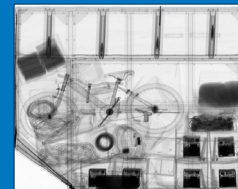
Transmission image of an LD-3 container

Eagle® A25

HANDHELD

The MINI Z® handheld system is ideal for on-the-go detection of drugs and organic threats. A compact, single-sided Z Backscatter® imaging system, the MINI Z scans in hard-to-reach areas, making it an effective tool for scanning car doors and fenders; furniture; packages; tires; and interiors of cars, boats, and aircraft.
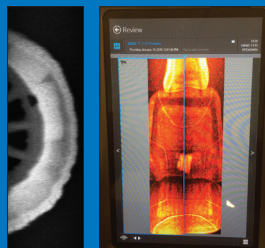
LEFT: Z Backscatter image of drug simulants hidden in a tire
RIGHT: Composite image with color palette applied highlights marijuana simulant hidden in a car seat
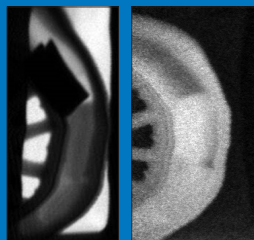
LEFT: The transmission image, generated with the Enhanced Detection Panel option for the MINI Z, reveals a lead box (used to conceal narcotics) welded to a tire rim
RIGHT: The Z Backscatter image highlights drugs placed in the tire itself

MINI Z System

NOTABLE SEIZURES
OUR SYSTEMS DELIVER PROVEN RESULTS

With the help of the **Eagle® M60** high-energy mobile inspection system, more than **two tons of marijuana worth $2.3 million** were discovered in two commercial shipments at a border crossing.

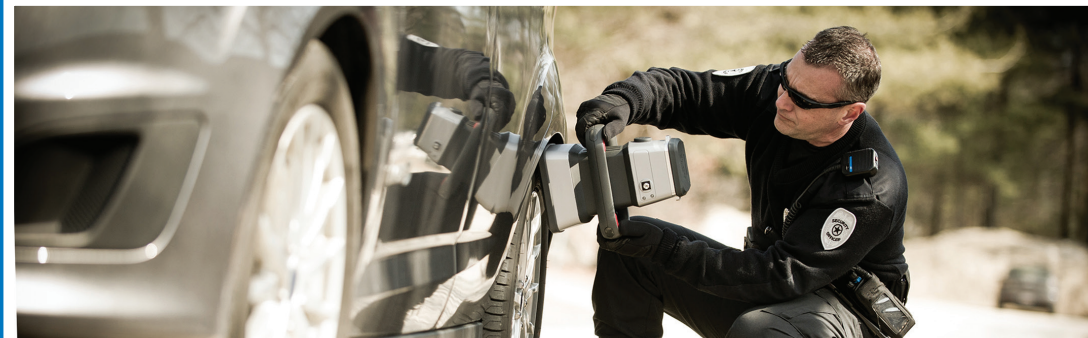As part of an effort to combat drug trafficking in the Cusco and Ayacucho regions, the narcotics division of the Peru National Police seized more than **800 kilos of cocaine** with the help of the **ZBV®** system.

At the Port of Durres in Albania, one of our **Eagle®** high-energy inspection systems helped detect 64 packages containing **69 kg of cannabis** concealed in a hidden compartment of a truck transporting a load of wood.

11.25 pounds of heroin with a street value of $360,000 were seized in El Paso, Texas, with the help of our **Z Portal®** system that scanned a vehicle entering the port from Mexico. The heroin was hidden in the driver-side, rear-door compartment.

In the Middle East, the **ZBV** mobile scanning system's Z Backscatter® technology helped detect **chemicals used to make improvised explosive devices** that were hidden in the back of a truck.

The Yunnan MOPS Drug Enforcement Agency used the **MINI Z®** handheld imaging system to scan baggage at various checkpoints along bus routes and successfully seized **drugs hidden in the luggage of a passenger bus.**

S2 Global, an OSI Systems company and sister organization, offers turnkey screening solutions that streamline operations and increase revenue, with minimal to no capex requirements. With extensive expertise in helping customers plan, integrate, automate, and centralize their scanning operations, S2 Global helps customers implement a state-of-the-art screening solution for ports, borders, security checkpoints, airports, and high-threat facilities.

Turnkey Screening Solutions | Operation | Integration | Training

S2 GLOBAL

Using S2 Global's efficient operation techniques, platform integration, and specially developed real-world training, customers can achieve breakthrough improvements in security, efficiency, revenue collection, and regulatory compliance.

- **Operation:** State-of-the-art, non-intrusive X-ray inspection services are employed from the purveyor of the world's first and largest country-wide screening service program, ensuring a high-throughput operation

- **Integration:** Data and images from security hardware and knowledge databases, such as surveillance systems, access control points, manifests, waybills, and government security databases, are combined and integrated into S2 Global's CertScan® software platform to provide actionable intelligence

- **Training:** Comprehensive training programs using data and images from real-world inspection applications, expert instructors with decades of operational experience, and a full course library, deliver a holistic solution for effective screening operations
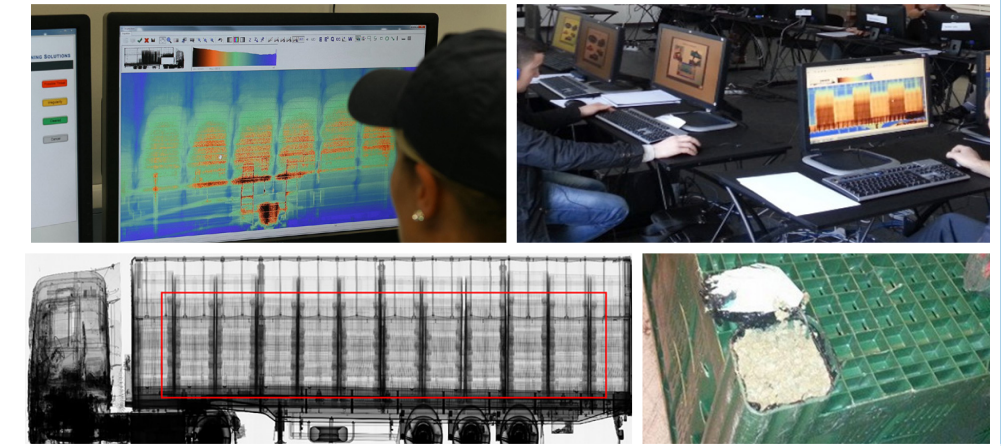
TOP: S2 Global training assists in effective screening operations.
BOTTOM: Image showing empty plastic crates altered at the corners to conceal 450 kgs of marijuana.

"The most sophisticated machines become worthless if the people who operate them and visually inspect the X-ray images are not qualified to do so."

— "Increasing X-ray image interpretation competency of cargo security screeners," *International Journal of Industrial Ergonomics,* 2014

Whether you need to scan baggage at a congested airport or perform people screening at a key checkpoint, Rapiscan Systems also offers a broad array of cutting-edge baggage, parcel, and personnel inspection systems. Since 1993, Rapiscan Systems has been providing state-of-the-art screening solutions for the detection of solid and liquid explosives, weapons, nuclear and radiological threats, drugs, dangerous goods, and other contraband.

Rapiscan systems
An OSI Systems Company

Baggage & Parcel Inspection | Hold Baggage Screening | People Screening | Radiation Detection | Trace Detection

SERVICE AND SUPPORT

Rapiscan Systems | AS&E Global Technical Support and Customer Service teams ensure your X-ray inspection systems are serviced quickly and efficiently. Our maintenance and support services are available 24 hours a day, 365 days a year, and spare parts depots are maintained strategically around the globe to ensure that systems are repaired in a timely and cost-effective manner. We offer interactive, hands-on product training, as well as classroom instruction at our state-of-the-art training facilities or at customer sites around the world.

GLOBAL SUPPORT
Technical Support and Customer Service teams ensure your systems are serviced in the most efficient manner possible

SPARE PARTS DEPOTS
Maintained in strategic locations around the globe to ensure that systems are repaired in a timely and cost-effective manner

PRODUCT TRAINING
Training is offered onsite at our state-of-the-art U.S. and U.K. manufacturing facilities, or at customer sites around the world

MULTI-VENDOR SERVICES
A single point of contact for the service and support of all of your Rapiscan| AS&E and third-party security equipment and peripherals

FOR MORE INFORMATION

UK OPERATIONS
Prospect Way, Victoria Business Park
Biddulph, Stoke-on-Trent ST8 7PL

US OPERATIONS
829 Middlesex Turnpike
Billerica, MA 01821
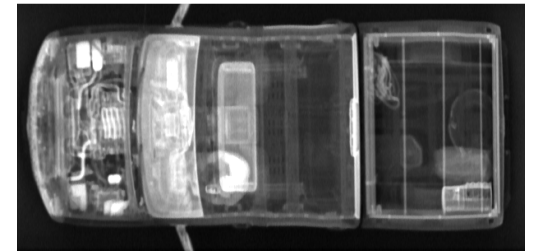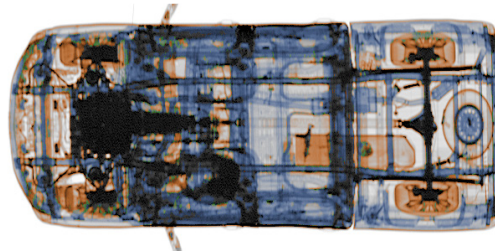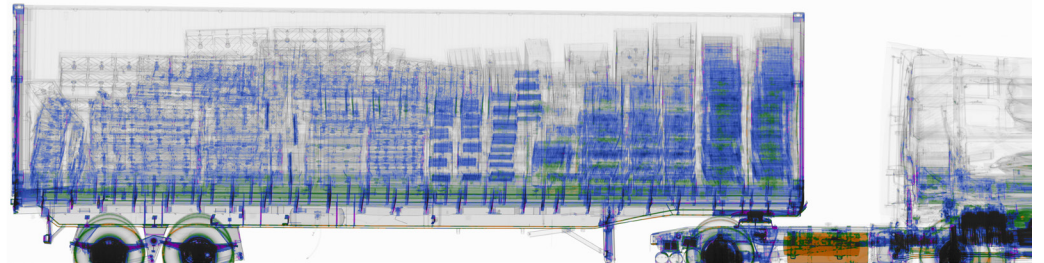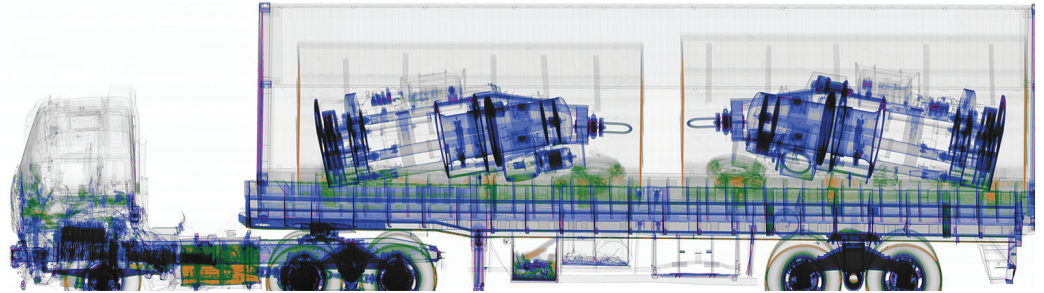
CONTACT US
sales@as-e.com
sales@rapiscansystems.com
service@as-e.com
+1.978.262.8700 | 1.800.225.1608
www.rapiscan-ase.com
www.screeningsolution.com

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