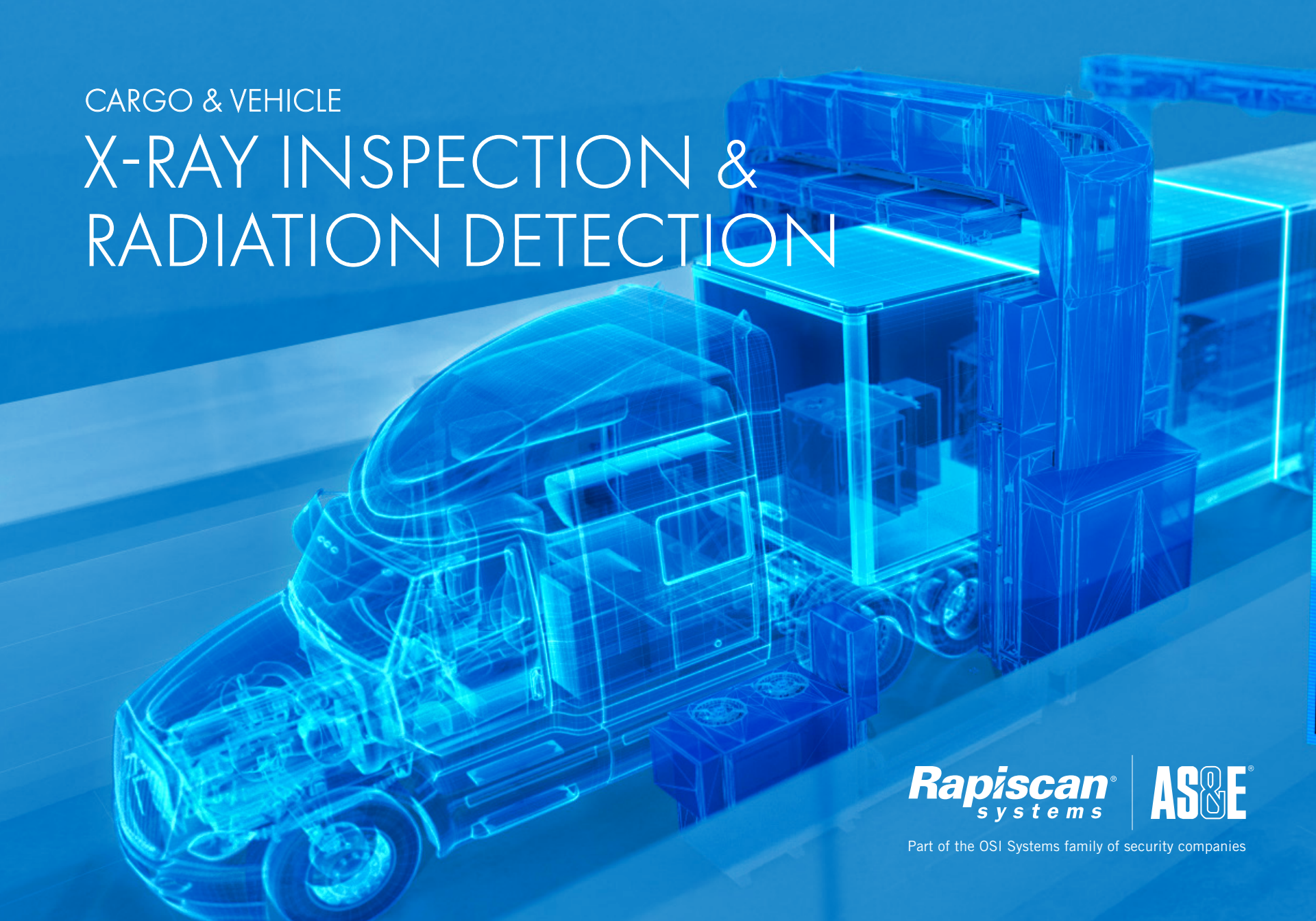
CARGO & VEHICLE

X-RAY INSPECTION & RADIATION DETECTION



Rapiscan® systems | AS&E®

Part of the OSI Systems family of security companies

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.




Left Side Backscatter
Top Backscatter
Left Side Forwardscatter
Scene image

THE RIGHT SOLUTION FOR YOUR MISSION

FROM THE LEADING PROVIDER OF X-RAY INSPECTION AND RADIATION DETECTION PRODUCTS AND SERVICES

Whether you need to scan vehicles at a busy checkpoint, screen densely loaded cargo at a congested port or simply require an inspection 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.

BEST-IN-CLASS DETECTION

Our range of high-to-low energy cargo and vehicle X-ray screening systems comes in a variety of configurations—mobile, portal, gantry, rail, trailer, conveyor, and handheld—and many leverage multiple X-ray technologies to simultaneously provide multiple views of the scanned object for greater assistance with detection. We also offer a broad range of best-in-class radiation detection systems that detect, locate, and identify radioactive sources in cargo, vehicles, and baggage, and on pedestrians.

QUALITY YOU CAN RELY ON

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

REAL-WORLD EXPERIENCE

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 program management team as well as an expansive global service, parts, and manufacturing network.

Our service team is equipped with local market knowledge to ensure each customer receives a timely and efficient response to maintain the continued operation of their screening solutions.

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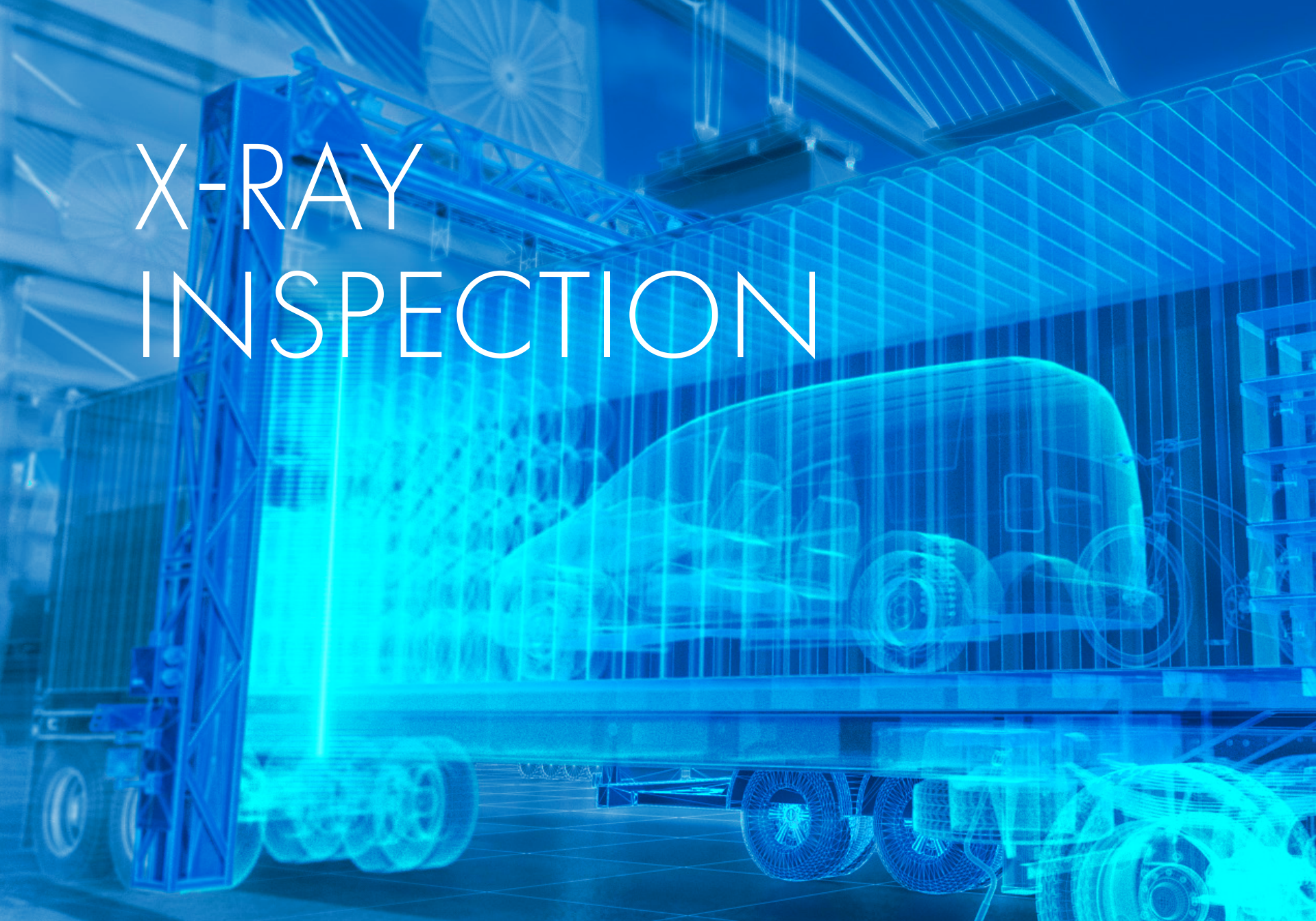
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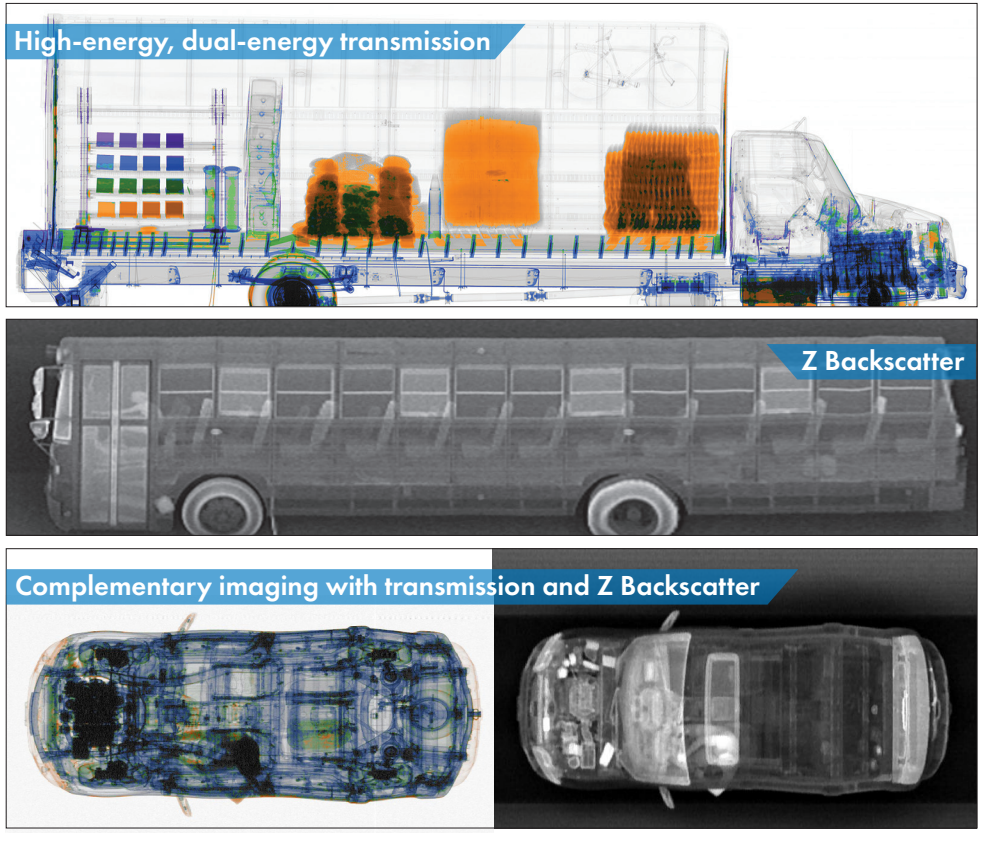
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X-RAY
INSPECTION

INDUSTRY-LEADING X-RAY INSPECTION TECHNOLOGY TO HELP YOU FIND THREATS AND CONTRABAND

Best-in-class images start with cutting-edge X-ray technology. With more than 50 years of 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.



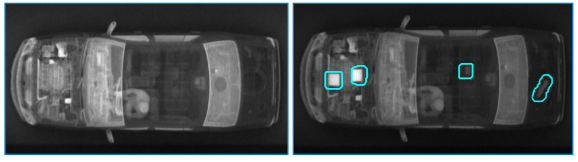
INTELLIGENT IMAGE ANALYTICS

insight™

ASSISTING OPERATORS WITH IMAGE INTERPRETATION AND THREAT DETECTION

Our **InSight™ Intelligent Image Analytics** reduce the time needed to analyze images and highlight anomalies that might be missed during image analysis. InSight tools help operators focus on what matters to increase efficiency and maximize detection.

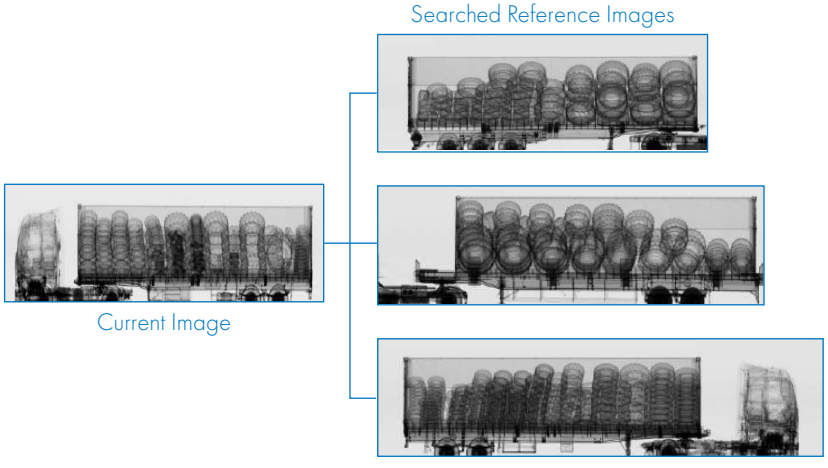
insight Vehicle Compare



Compares images of the current vehicle being scanned to the most recent "reference" image of that same vehicle and highlights the differences.

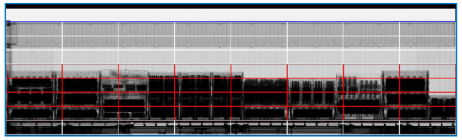
insight Similar Cargo

Retrieves saved images from the database that are most like the current image and displays it next to the current image for a side-by-side comparison by the analyst.



insight Empty Container

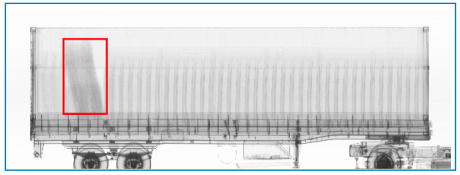
Alerts the operator when an ISO container, enclosed trailer, or cargo box of a transport truck appears empty. It provides a confidence level and highlights area(s) in the image that do not appear to be empty.



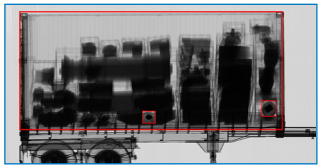
Confidence of Empty Container = 0%

insight Non-Homogeneous Cargo

Determines whether an image appears to contain homogeneous cargo and highlights any area(s) in the image that differ.

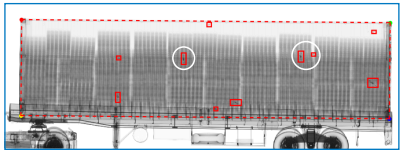


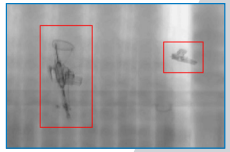
insight High Density



Automatically processes X-ray images and highlights the presence of high-density anomalies.

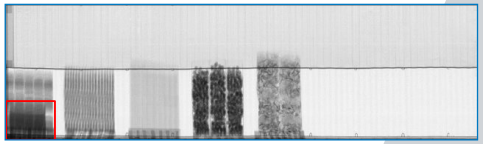
insight Firearms





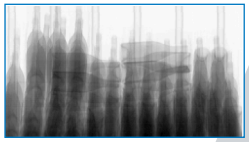
Assists in detecting fully assembled, common firearms (e.g. handguns, rifles, machine guns).

insight Cigarettes



Aids in the detection of large quantities of unobstructed, palletized, uniformly-packaged, smuggled cigarettes.

insight Bottles



Helps to detect large quantities of unobstructed, uniformly-packaged bottles of liquid—regardless of the type, color, or alcohol content.

InSight tools are designed to work on transmission images of ISO containers and enclosed trailers and cargo boxes of transport trucks, except for Insight Vehicle Compare, which is designed to work on Z Backscatter images of passenger vehicles and truck cabs.

PLATFORM	PRODUCT	CONFIGURATION	ENERGY LEVEL	X-RAY TECHNOLOGY
PORTAL High-throughput, drive-through screening of passenger vehicles, trucks, and cargo	CarView™		225 keV	TX BX
	CarView InLane		225 keV	TX BX
	UVBx Portal		225 keV	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
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
	Eagle G60 ZBx		6 MeV	TX BX
	OmniView®		6 MeV	TX
	OmniView ZBx		6 MeV	TX BX



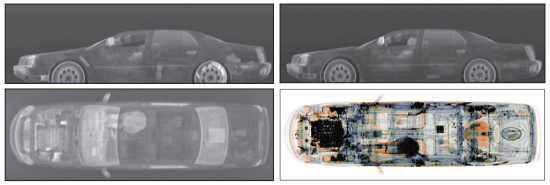
PLATFORM	PRODUCT	CONFIGURATION	ENERGY LEVEL	X-RAY TECHNOLOGY
MOBILE Rapidly deployable, relocatable screening for space-constrained or remote applications	ZBV®		225 keV	BX TX
	Eagle M60		6 MeV	TX
	Eagle M60 ZBx		6 MeV	TX BX
TRAILER Rapidly deployable, relocatable imaging on a towable trailer	Eagle T25		2.5 MeV	TX
	Eagle T60		6 MeV	TX
	Eagle T60 ZBx		6 MeV	TX BX
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

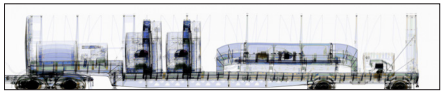
BX Z Backscatter
Provides photo-like images that highlight organic threats and contraband, including explosives, currency, and drugs

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








CarView InLane
AS&E
CARVIEW INLANE

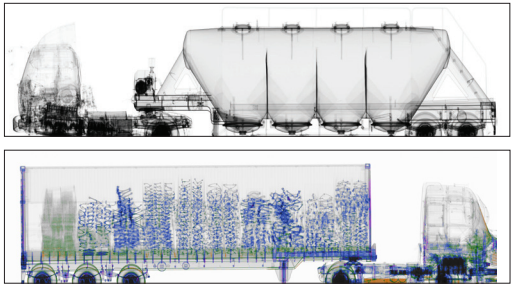

CarView
AS&E


Sentry Portal
AS&E


Eagle P25

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





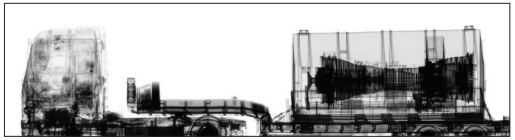






MOBILE

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

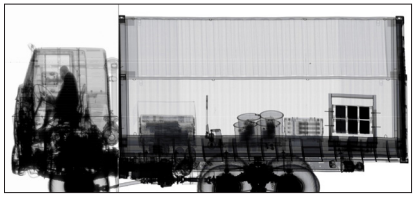






TRAILER

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

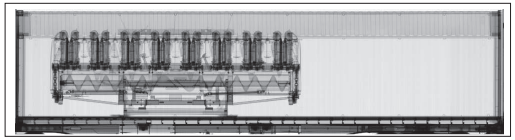


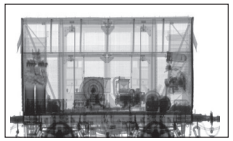




RAIL

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

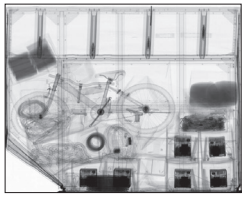






AIR CARGO

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.

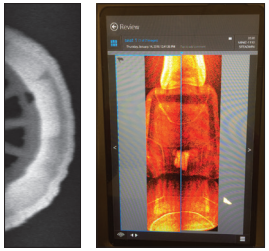


Transmission image of an LD-3 container

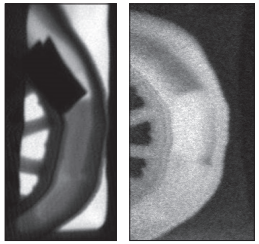


HANDHELD

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







RADIATION DETECTION



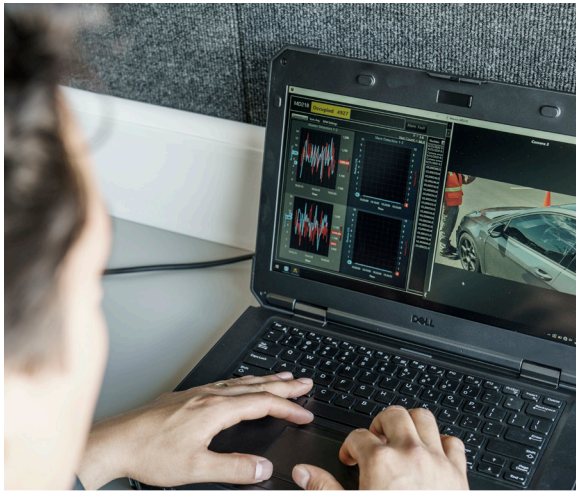
RADIATION DETECTION

TECHNOLOGY

PROVEN AND RELIABLE TECHNOLOGY THAT DETECTS, LOCATES, AND IDENTIFIES RADIOACTIVE SOURCES

Trusted worldwide, our best-in-class gamma and neutron radiation detection systems exceed the strict requirements demanded by today's security professionals tasked with border, nuclear, industrial, public, or national protection. Our innovative technology detects, locates, and identifies radioactive sources.

- **PASSIVE RADIATION DETECTION** is the safest and most efficient means of detecting gamma and/or neutron radiation for locating concealed threats, monitoring the environment in and around high-profile facilities, and performing geological surveys.
- **GAMMA SPECTROSCOPY** accurately identifies radioactive materials and provides discrimination between Naturally Occurring Radioactive Material (NORM), medical, industrial, and Special Nuclear Material (SNM).
- **SOFTWARE TECHNOLOGY** enables remote oversight of the inspection process, capturing and displaying data and video images relating to a radiological detection incident for rapid location.





PLATFORM	PRODUCT	CONFIGURATION	DETECTION	SOURCE LOCATION	RADIOISOTOPE ID
PORTAL	GCS-1500 Series		G N	✓	
	GCS-SPEC Series		G N	✓	✓
	VM250		G N		
	VM400BGN		G N		✓
	TM850		G N		
	PM-SPLIT-GN		G N	✓	✓
	PM700		G N		
	TPM905		G		
CONVEYOR PORTAL	CM268-Split		G	✓	✓
	CM267		G		
	CM620		G N		



PLATFORM	PRODUCT	CONFIGURATION	DETECTION	SOURCE LOCATION	RADIOISOTOPE ID
MOBILE	GMS-4x4		G N	✓	✓
	MD134		G N		
	MD210		G N		
BACKPACK	Guardian™ Patriot Series		G N AB	✓	✓
HANDHELD	Micro Guardian		G N	✓	✓
	Guardian Syclone Series		G N	✓	✓
	PRM470		G N	✓	
FIELD KIT	NG-Kit		G N AB	✓	✓

G Gamma Detection N Neutron Detection AB Alpha/Beta Detection

Commercial radiation detection solutions
Steel industry: Nucsafe® 1500 portal, Nucsafe 3000 Series portals, Nucsafe Baghouse monitor, and Nucsafe Shield area monitor
Medical and industrial: Guardian Shield area monitors
Food, water and industrial: Guardian Lab System for quality assurance testing
Industrial: Guardian Glass for neutron detection

STATIONARY

VEHICLE, CARGO, AND CONVEYOR PORTALS

Our radiation portal monitors are designed to detect and identify gamma and neutron sources concealed in trucks, trains, cargo containers, passenger vehicles, or parcels—without disrupting the flow of commerce. Our portals detect and identify radionuclides, discriminating between naturally occurring radioactive materials (NORM), medical and industrial isotopes, and special nuclear materials (SNM), which dramatically reduces the need for manual inspections.















STATIONARY

PEDESTRIAN PORTALS

Protecting individuals, events, and critical infrastructure while maintaining the free flow of pedestrians in areas with high foot traffic are the key objectives of our pedestrian portals. Whether a permanent screening site at airports, seaports, or train stations; a temporary screening site at outdoor events; or in response to disaster containment, our pedestrian portals accurately discriminate between illicit and legal isotopes, detecting potential problems without disrupting individuals' movement.







MOBILE

GROUND, AERIAL, AND MARINE

Rugged and customizable, our mobile radiation detection systems operate in remote locations under the harshest conditions. Our gamma and neutron monitoring technology is unmatched in detecting sources and identifying radionuclides—legal, illegal, and naturally occurring—when scanning for threats or performing geological surveys.













PORTABLE

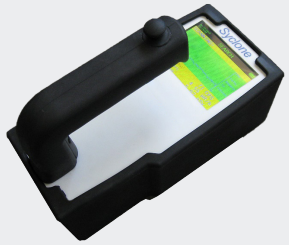
BACKPACK, HANDHELD, AND FIELD KIT

Our compact, lightweight portable radiation detection systems have been employed by military professionals, law enforcement, and first responders for more than 15 years. The systems offer high sensitivity gamma and neutron detection and identification of Naturally Occurring Radioactive Material (NORM), legal isotopes, and Special Nuclear Material (SNM) in a handheld, backpack, or military kit form factor.

Guardian Patriot



Guardian Syclone



PRM470



NG-Kit





PROGRAM MANAGEMENT, SERVICE, & SUPPORT

DEDICATED PROGRAM MANAGEMENT



Our dedicated program management team works closely with customers to efficiently develop, deploy, and install our cargo and vehicle inspection systems.

Our detailed approach begins before contract award and continues through all phases of the project, including planning, scheduling, civil work construction, installation, commissioning, and post-installation training and support. The team consists of hands-on leaders with backgrounds in engineering and business, coupled with years of experience managing installations around the world. With a proven track record of timely deliverables and system deployments, customers can rely on us to efficiently deliver the ideal inspection solution for their operation.

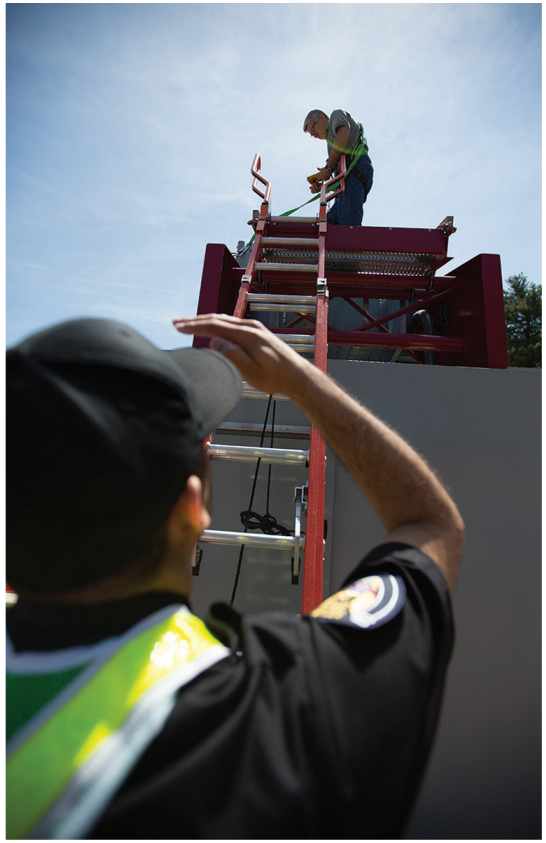
WORLD-CLASS

SERVICE & SUPPORT

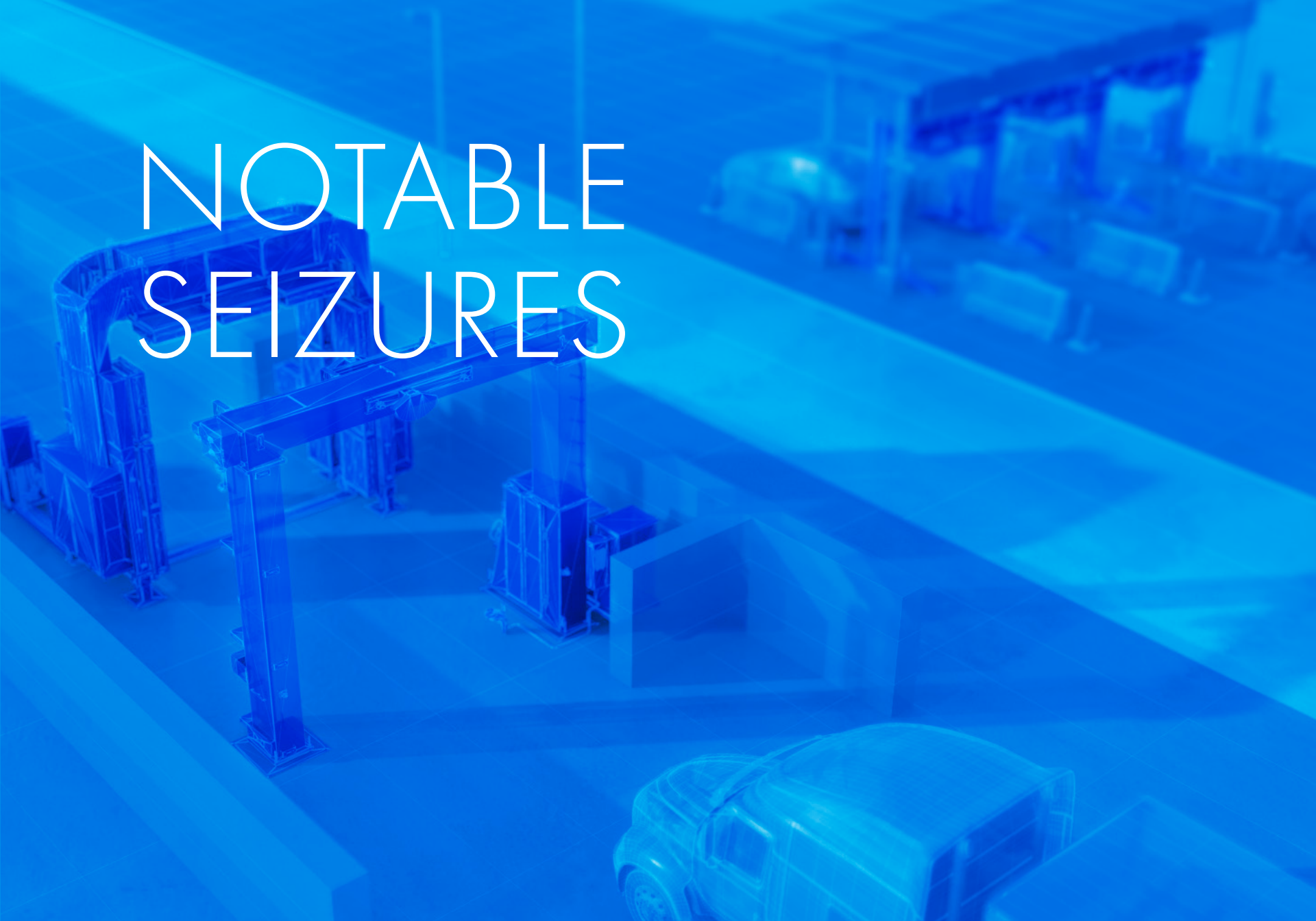
DEDICATION AND EXPERTISE CUSTOMERS CAN RELY ON

Our Global Technical Support and Customer Service teams ensure your inspection systems are serviced quickly and efficiently, with maintenance and support services available 24 hours a day, 365 days a year.

- GLOBAL SUPPORT: Technical Support and Customer Service teams ensure your systems are serviced in the most efficient manner possible.
- FIELD SERVICE PACKAGES: Each of our service packages—Platinum, Gold, Silver, and Bronze—offers expert corrective maintenance with labor, services, parts, packaging, and shipping, depending on the package. For mobile systems, we also offer bumper-to-bumper vehicle support that covers the chassis of the system.
- PRODUCT TRAINING: Comprehensive operator training along with proactive preventive and corrective maintenance courses are offered onsite at our state-of-the-art U.S. and U.K. manufacturing facilities and at customer sites around the world. Courses enable customers to perform basic and intermediate preventive and corrective maintenance on our equipment.
- SPARE PARTS DEPOTS: Our spare parts depots are maintained in strategic locations around the globe to ensure that systems are repaired in a timely and cost-effective manner.
- MULTI-VENDOR SERVICES: Our support and services are extended to serve as a single point of contact for all of your Rapiscan | AS&E and third-party security equipment and peripherals.



NOTABLE SEIZURES



NOTABLE SEIZURES

PROVEN RESULTS

HELPING CUSTOMERS MAKE THE WORLD A SAFER, MORE SECURE PLACE

Our customers choose us because we offer the most advanced detection technologies in a variety of configurations—all designed to meet their real-world operational requirements. With high-energy transmission and patented Z Backscatter X-ray technology, our systems make it faster and easier to find threats and contraband.

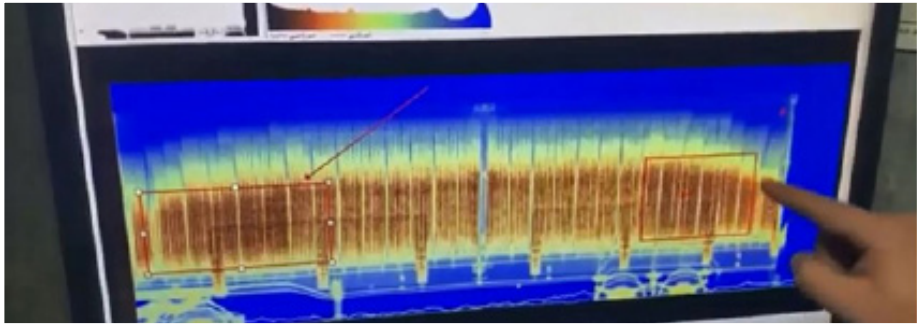








Image courtesy of the Tucson Sentinel

Egypt Customs Authority (CSA) in Alexandria Port detected a record amount of drugs with the help of the **Eagle M60**. A shipment of containers with over 16,000 cans documented as hummus were scanned as part of the port's inspection operation, revealing **4 tons of hashish** with an estimated value of approximately 390 million Egyptian Pounds or **$4.7 million USD**.

The **Eagle M60** helped US Customs and Border Protection with their **largest fentanyl seizure ever** (as of Jan 31, 2019)—254 lbs—and nearly 400 lbs of methamphetamine. The narcotics were hidden in a compartment under the floor of a semi-trailer at the Mariposa Port of Entry.

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.

The **Eagle M60** helped US Customs and Border Protection seize **424 lbs of cocaine** with a street value of over **$8 million** at the Ports of Los Angeles and Long Beach. The cocaine was concealed inside a shipment of tires.













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.**

PARENT COMPANY & SISTER SECURITY GROUPS



Rapiscan systems

AS&E

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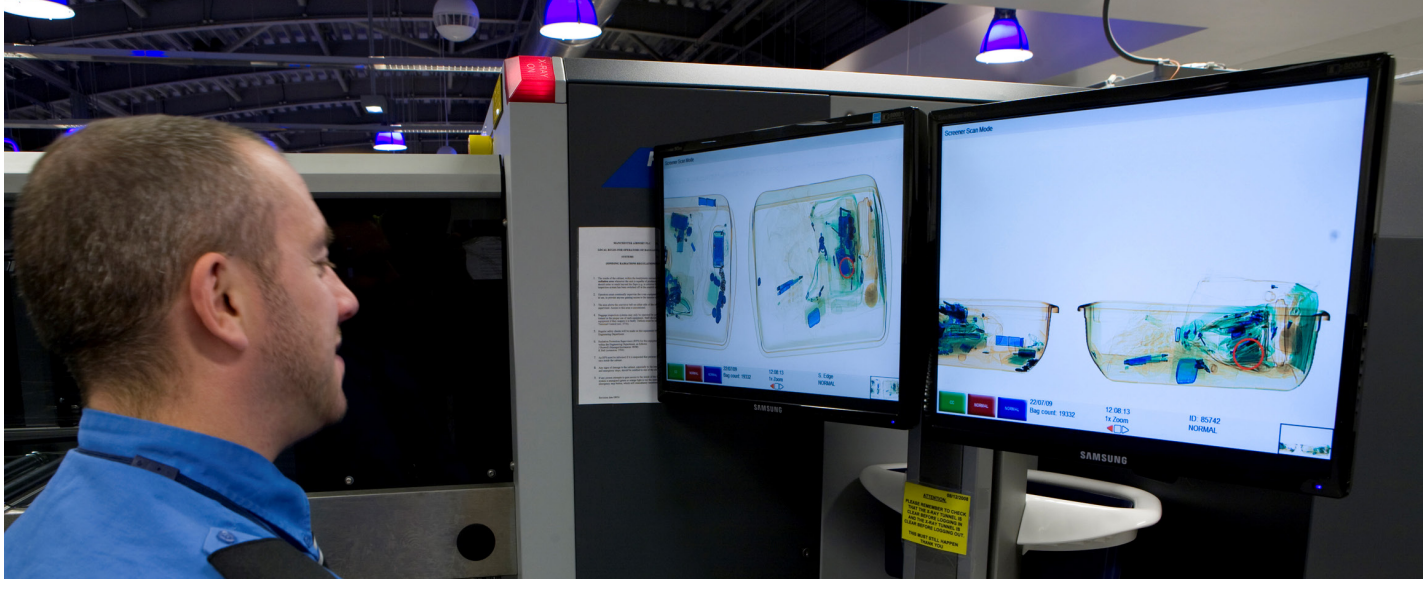
OSI SYSTEMS IS DEDICATED TO CREATING SOLUTIONS FOR A SAFER, HEALTHIER WORLD

OSI Systems, Inc. is our parent company—a designer and manufacturer of specialized electronic systems and components for applications in homeland security, healthcare, defense, and aerospace. OSI Systems has three divisions:

- THE SECURITY DIVISION is comprised of sister companies Rapiscan Systems, AS&E, and S2 Global, providing inspection systems, turnkey screening operations, and data integration solutions, all supported by a global service and maintenance network.
- THE HEALTHCARE DIVISION designs and manufactures acute care patient monitoring, diagnostic cardiology, and clinical networking solutions for use in hospitals, medical clinics, and physician offices.
- THE OPTOELECTRONICS AND MANUFACTURING DIVISION provides specialized electronic components and electronic manufacturing services to our Security and Healthcare divisions, as well as to OEMs and end users in defense, aerospace, medical, and industrial markets.

SISTER SECURITY GROUP

RAPISCAN



ADDITIONAL DETECTION

BAGGAGE & PARCEL INSPECTION

HOLD BAGGAGE SCREENING

PEOPLE SCREENING

TRACE DETECTION

Rapiscan systems
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Since 1993, Rapiscan Systems has provided state-of-the-art screening solutions for the detection of solid and liquid explosives, weapons, drugs, dangerous goods, and other contraband.

Whether you need to scan baggage at a congested airport or perform people screening at a key checkpoint, Rapiscan Systems offers a broad array of cutting-edge baggage, parcel, and personnel inspection systems.

- BAGGAGE AND PARCEL INSPECTION: Our array of screening systems meets even the toughest regulatory requirements.
- HOLD BAGGAGE SCREENING: Our explosive detection systems (EDS) comply with global threat detection standards without impacting throughput.
- PEOPLE SCREENING: Fast, safe screening for people at airports, government and corrections facilities, stadiums, movie theaters, cruise ships, and more.
- TRACE DETECTION: Versatile, real-time trace detection solutions for mobile and permanent security screening operations.

Rapiscan Systems' detection products, such as the Itemiser® 4DN shown here, give customers flexible solutions that maximize security and improve operational efficiency.



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SISTER SECURITY GROUP

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SCREENING SOLUTIONS

DATA INTEGRATION
TRAINING
MANAGED SERVICES
EVENT SECURITY

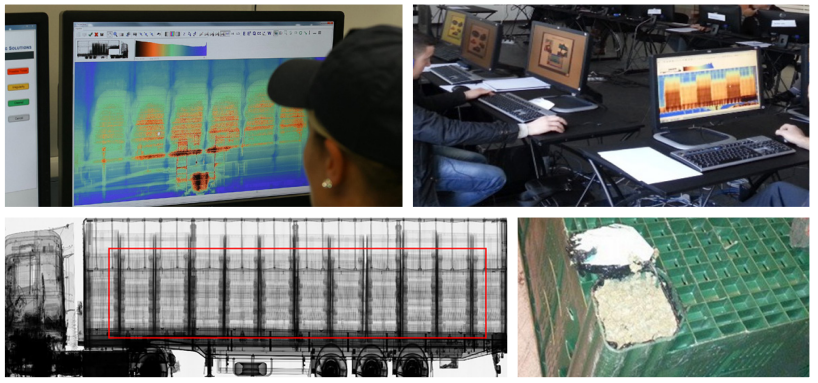
S2 GLOBAL
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S2 Global offers turnkey screening solutions that streamline operations and increase revenue, with minimal to no capex requirements. With extensive expertise in helping customers plan, integrate, automate, and centralize their scanning operations,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

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.

- **DATA INTEGRATION:** Data from security hardware and knowledge databases, such as surveillance systems, access points, manifests, and waybills, are combined and integrated into S2 Global's CertScan® software platform to control and automate processes, provide actionable intelligence, and quickly share information with stakeholders.
- **MANAGED SERVICES:** 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.
- **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.
- **EVENT SECURITY:** Our experienced team recommends and delivers solutions to close security gaps. Let us evaluate your technology needs; develop operational procedures, including traffic flows and entry-point screening; and provide management and training for security and support staff.

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.



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