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CARGO & VEHICLE INSPECTION TO

SECURE LAND BORDERS



CARGO SCANNING & SOLUTIONS

Customs and border security agencies must balance the demands of maintaining the flow of traffic and commerce, while also preventing threats and contraband from entering their country.

MAXIMIZE DETECTION AND OPERATIONAL SUCCESS

Some agencies rely on manual inspection of cargo and vehicles to protect their borders, but this approach is labor intensive, time consuming, and limits inspection to a small portion of conveyances. To accelerate the process and increase the volume of screened cargo and vehicles, many countries utilize non-intrusive X-ray inspection systems at their border crossings.

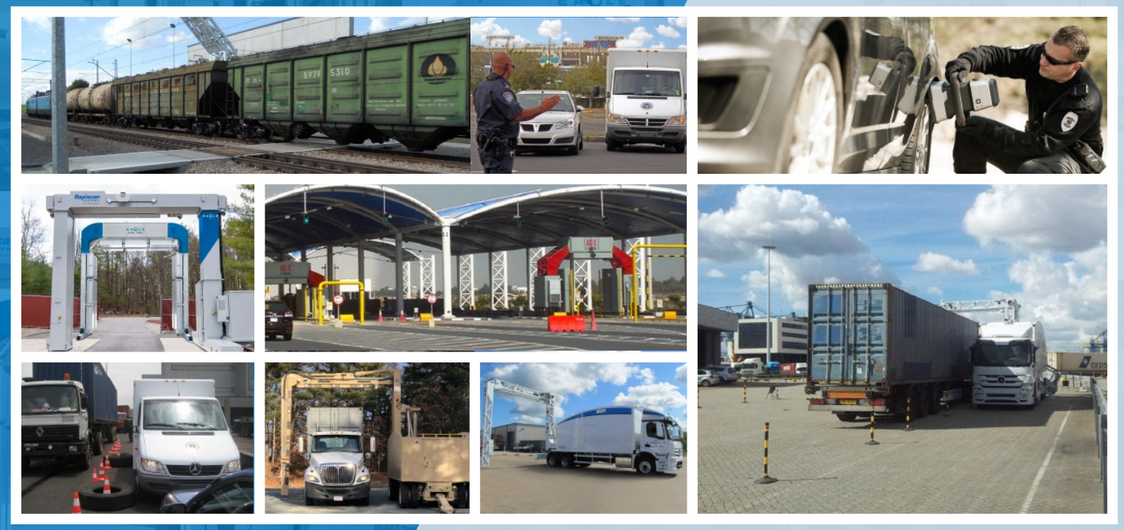
X-ray scanners not only enhance the ability to stop threats and smuggled goods from entering the country, they also help to increase duties collected by verifying the contents specified on manifests. But screening cargo and vehicles is not the only factor to consider—inspection systems must also address the operational challenges that are unique to each border, such as high volumes of traffic, space-constraints, or remote locations.

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BEST-IN-CLASS IMAGES START WITH

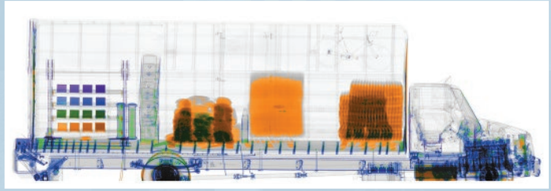
CUTTING-EDGE X-RAY TECHNOLOGY

With more than 50 years of experience in X-ray imaging, our advanced technology facilitates the detection of a multitude of threats and contraband, ensuring our cargo and vehicle screening systems meet the most demanding inspection 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 easy-to-interpret, photo-like images that highlight organic threats and contraband, including explosives, currency, and drugs.

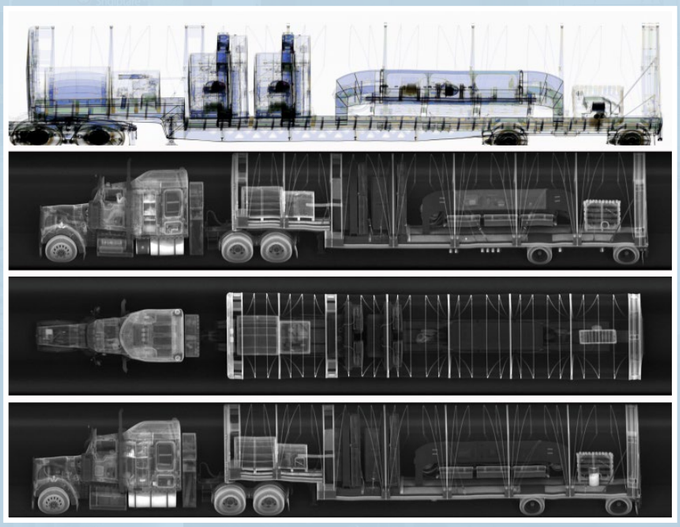
Complementary imaging uses both transmission and Z Backscatter technologies for improved manifest verification and threat detection, achieving mission objectives from both customs and security agencies.



High-energy, dual-energy transmission technology



Z Backscatter technology



Complementary imaging with high-energy transmission image and three Z Backscatter images

SCANNING SOLUTIONS FOR EVERY MISSION

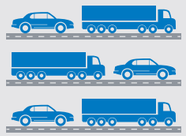
No matter how busy or remote the location, Rapiscan Systems | AS&E can help border agencies scan trucks, vans, passenger vehicles, and cargo for drugs, weapons, and other contraband. Our solutions not only ensure that current operational flows are maintained, they also account for anticipated growth in traffic volume. Our experts can help you achieve your ideal concept of operations with our:

- Wide range of scanning platforms to suit your operation, including mobile, portal, gantry, rail, trailer, and handheld
- High-throughput solutions to accommodate high-traffic, congested border crossings, and ports of entry
- Detection technology that meets the most demanding applications
- Data integration platform that collects and combines information from multiple sources in the inspection operation in order to centralize image analysis, automate manual processes, and control workflows

THE RIGHT SOLUTION FOR YOUR OPERATION

Whether you need to scan passenger vehicles, screen densely loaded cargo, 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 define and deliver the ideal solution for each mission.

EASILY ENHANCE SCANNING CAPABILITIES IN ANY OPERATION

OPERATION	TRAFFIC FLOW	PLATFORM	THROUGHPUT	OPERATORS
SMALL		 ZBV	250K VEHICLES PER YEAR APPROXIMATELY	
MEDIUM		 Z Portal  Eagle T25	675K VEHICLES PER YEAR APPROXIMATELY	
LARGE		 Eagle M60 ZBx  Eagle P60 ZBx  ZBV	1M+ VEHICLES PER YEAR APPROXIMATELY	

COST-EFFECTIVE SOLUTIONS FOR THE ENTIRE LIFECYCLE

As with any capital equipment purchase, border agencies must consider not only the cost of the system, but also the cost of system installation, training, on-going operation, maintenance, and power consumption. Our product development team looks at total lifecycle costs and ease of serviceability to deliver cost-effective systems that support 24/7 operation.

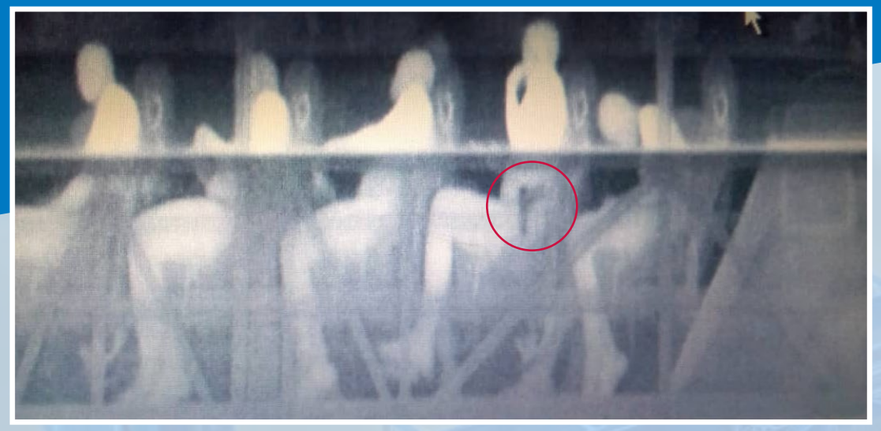
We work with operators to define solutions with limited civil works requirements and provide dedicated program management and installation teams to ensure smooth system installation. Post installation, our comprehensive service packages along with our global service network and parts depots help maximize uptime at your operation.

We can also help reduce your capex by designing, installing, maintaining, and operating your scanning systems with our Build-Own-Operate model. This model allows customers to deploy an operationally efficient cargo inspection program with minimal capital investment. We can integrate and operate both existing scanning equipment as well as any required supplemental scanning systems, allowing for future expansion and reconfiguration, as needed.



NOTABLE SEIZURES

OUR CARGO AND VEHICLE X-RAY INSPECTION TECHNOLOGY DELIVERS PROVEN RESULTS



ZBV® image of passengers on a bus reveals a concealed firearm.



Tusks from 400 poached elephants—over 4,600 pounds of smuggled ivory—were seized as a result of scans with the ZBV system.



11.25 pounds of heroin valued at $360,000 was seized at a border in El Paso, Texas with the help of our Z Portal®. The heroin was hidden in the driver-side, rear-door compartment of a vehicle.



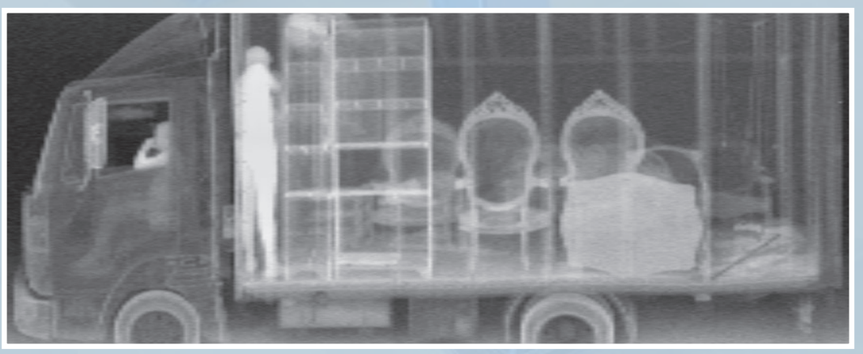
Poland Customs discovered 9,000 packs of smuggled cigarettes, valued at €23,600, hidden in a secret, remote-controlled hatch in the roof of a truck driver's cab, with the help of the ZBV.



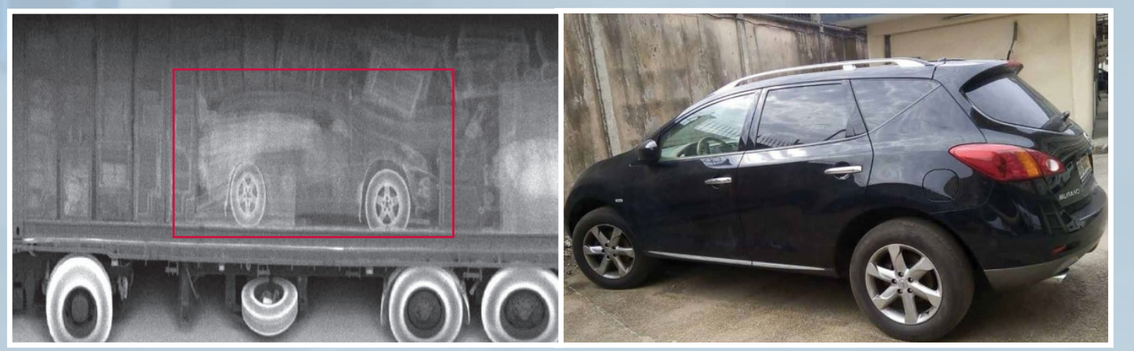
The Eagle® M60 helped find more than two tons of marijuana worth $2.3 million in two commercial shipments at a border crossing.



The transmission image from one of our Eagle high-energy inspections systems shows empty plastic crates that were altered at the corners to conceal 450 kgs of marijuana.



ZBV image reveals a stowaway on a box truck carrying mixed cargo.



With the help of the ZBV, a smuggled vehicle was detected among flea market cargo to avoid paying duties and taxes.

OUR SYSTEMS IN ACTION



CASE STUDY 1

SECURING BORDERS IN REMOTE LOCATIONS

Cameroon was seeking a cargo and vehicle inspection system to help more effectively secure their border crossing to stem the flow of smuggled goods, such as elephant tusks, undeclared alcohol, and stolen vehicles. Given the remote location, space constraints, and heavy pedestrian traffic flow, they required a compact scanning system that could be safely deployed and maneuvered in a congested area.

The ZBV® mobile cargo and vehicle scanning system was deployed, as its Z Backscatter technology highlights organic threats and contraband to assist in the detection of concealed items. The ZBV system's small footprint and easy-to-interpret X-ray images allowed operators to safely and quickly scan cargo and vehicles in space-constrained locations, delivering a versatile, effective screening solution.

Since ZBV is a highly mobile scanning solution, the government also had the flexibility to deploy the system at a key port in Cameroon and during a three-month period, the ZBV system scanned 12,000+ containers, resulting in 183 seizures of illegal contraband and $9,280,377 of collected revenue.



> "Non-intrusive imaging systems such as the Z Portal are valuable tools that assist CBP [US Customs and Border Protection] in its mission to safeguard America's borders thereby protecting the public from dangerous people and materials while enhancing the nation's global economic competitiveness by enabling legitimate trade and travel."
>
> —Jason Givens, USCBP Press Officer

CASE STUDY 2

HIGH-VOLUME SCREENING AT CONGESTED BORDER

For many years, US Customs and Border Protection (CBP) has deployed X-ray scanning systems on the border to secure legitimate trade and travel into the United States. With tens of thousands of cars and trucks crossing the border daily, CBP needed to expand their operation by scanning privately owned vehicles. To achieve meaningful throughput, the scanning solution had to allow for passengers to safely remain in their vehicle as it is screened, fit into established ports of entry, and include the use of Z Backscatter® imaging technology because it "provides a much clearer image of low density objects that may be hidden in car fenders, tires, trunks, gas tanks, or under the hood."*

In response, Rapiscan Systems | AS&E developed the Z Portal® screening system for cars and buses, which offers 3-sided Z Backscatter imaging, scan speeds of up to 20 km/hr, and an extremely low dose to vehicle occupants. The Z Portal system has proved to be an effective solution for screening passenger vehicles at San Ysidro, the busiest land port of entry in the Western Hemisphere, and today, these systems are deployed all along the US-Mexico border.

Following the success of the Z Portal system, CBP is seeking to expand their screening capabilities along the border by employing multi-technology inspection systems that employ both transmission and Z Backscatter imaging, such as the Eagle P60 ZBx cargo inspection system and CarView vehicle screening system. These systems will allow for screening conveyances with both imaging technologies in a single scan, giving operators the most information about the contents of the cargo or vehicle under inspection.

*Environmental Assessment for Deployment of Z Backscatter Screening Systems, San Ysidro Port of Entry, San Diego County, California, US Customs and Border Protection, May 2008.



ABOUT US

Rapiscan Systems | AS&E is part of the OSI Systems family of security companies. We deliver cargo and vehicle inspection systems and services that help our customers find threats and contraband with ease and confidence, while maximizing operational efficiency.

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 a combination of X-ray technologies to simultaneously provide multiple views of the scanned object for greater assistance with detection. Customers can further enhance inspection capabilities with our operational efficiencies, intelligent image analytics, and training programs.

Our data integration platform allows information to be collected and combined from multiple sources in the inspection operation in order to automate manual processes, control workflows, and deliver targeted, actionable intelligence. Our commitment to excellence in imaging performance, technology advancements, and uncompromising quality means our solutions consistently deliver best-in-class imaging, high reliability, and operator satisfaction.

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