



SECURING SEA AND LAND BORDERS

Detecting threats, protecting trade

**Protect border crossing points
and combat the movement of
illegal and undeclared goods.**

Port authorities, customs, border protection and security professionals face continually increasing volumes of traffic across maritime ports, land border crossings and urban entry points. As the first line of defence, they must enforce stringent controls to monitor imports, exports and transit traffic — while simultaneously enabling faster clearance times, often with reduced resources.

Selecting the right solution is critical. Our advanced, non-intrusive inspection systems deliver efficient, reliable and accurate detection of concealed illicit goods, helping to prevent costly tax evasion. Our X-ray inspection solutions provide exceptional image quality and precise cargo analysis, enabling operators to quickly identify when further manual inspection is required.

The result is reduced inspection times, improved traffic flow, and more effective detection and seizure of dangerous or illegal materials. Supported by our unique networking capabilities, customs authorities, border agencies and law-enforcement organisations can securely share vital intelligence in an increasingly complex and fast-moving world.

Around the clock, and around the globe, we help protect people, critical infrastructure, and civil and military assets from a wide range of CBRNE threats.



Spot the threats that can't be seen

An estimated 1.8 billion tonnes of loaded, seaborne containerised freight move through global ports each year, alongside a continuous flow of inbound and outbound vehicle traffic.

Our high-performance, versatile and reliable inspection systems deliver a layered, risk-based approach at port entrances. They are designed to effectively scan complex cargo and densely packed vehicles, containers and pallets for concealed threats and illicit objects.

As a result, security authorities can prevent unlawful acts that endanger ships, passengers and crew — without disrupting the free flow of global trade.

Intercept illegal trafficking

DETECT MORE. IN LESS TIME.

Customs and border protection officials play a vital role in securing border crossing points — particularly in landlocked countries — preventing the entry of illegal and harmful goods while ensuring the uninterrupted movement of people, services and trade.

Our advanced inspection systems enable law-enforcement agencies to disrupt illicit trafficking networks by accurately detecting concealed materials such as narcotics and illegal weapons hidden within vehicles, including seats, doors, frames, fuel tanks and undercarriages.

Where regulations permit, low-dose radiation systems can safely scan entire vehicles and their occupants. In addition, 100% screening solutions can be seamlessly integrated into existing road lanes without impacting current operational procedures.

The result is continuous traffic flow and faster decision-making, with quick, efficient and reliable image analysis that highlights threats that cannot be seen.



IT'S ALL ABOUT THE IMAGE

Inspect more cargo in less time, uncover more targets, and stop fraudsters in their tracks.

Our intuitive and advanced image evaluation solutions deliver market-leading capabilities for fast, accurate cargo analysis. From vehicle recognition and colour-based material discrimination to the automatic detection of cigarettes and the monitoring of cargo for dangerous

levels of radioactive materials, operators are equipped with the tools they need to perform with confidence.

With the right technology in place, operators can focus on critical detail, reduce errors, improve efficiency and strengthen border security. Our superior image quality also provides a strong foundation for the future of automation.



GLOBAL COLLABORATION, COOPERATION AND INFORMATION EXCHANGE

Operators can securely share cargo data, images and files generated by our scanning solutions through the Dataset Management System (DMS) network. Optional Optical Character Recognition (OCR) cameras and software automatically capture vehicle licence plates and container identification numbers, enabling verification against a central database.

The DMS also supports remote monitoring across multiple sites, locations and organisations — helping to reduce operational costs and improve response times.

SERVICE • TRAINING • SUPPORT

We are with you every step of the way.

Our subject-matter experts provide comprehensive training programmes tailored to your operational needs — from basic system operation and maintenance to customised image interpretation and advanced decision-making courses.

Our global service and repair network ensures rapid installation, reliable operation and minimal downtime. Product lifecycles are extended through routine and corrective maintenance, fast spare-parts delivery and next-generation software upgrades.

We take pride in delivering exceptional service to match our advanced solutions — anywhere, anytime.

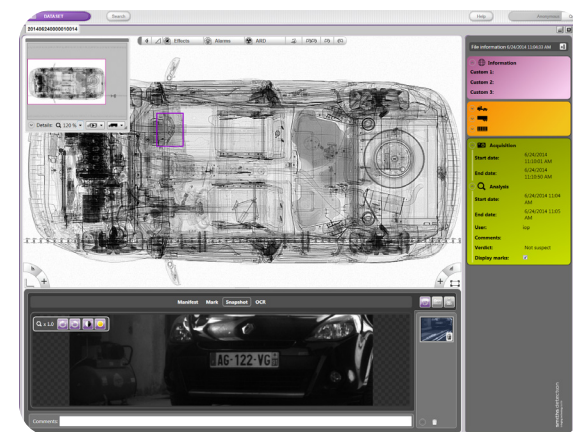
IMAGE ANALYSIS SOLUTIONS

Our intuitive, advanced software and hardware solutions deliver outstanding image resolution for fast, accurate and effective cargo analysis — from automatic cigarette detection to the controlled monitoring of radioactive materials.

All of our HCV cargo inspection systems can be equipped with a wide range of tools and options, enabling international customs and security operators to quickly and reliably perform detailed cargo assessments.

The result is increased cargo throughput and enhanced protection of national borders and entry points against the illegal movement of contraband, alcohol, explosives, arms, radiological threats and other prohibited goods.

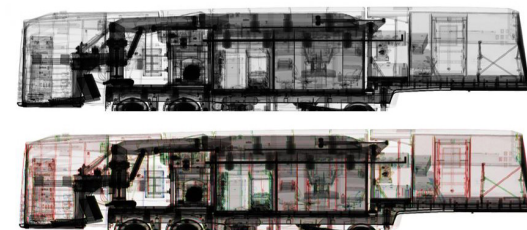
DaiSy™



Advanced image analysis in a single, intuitive software platform, designed with operators in mind. Analyse cargo efficiently using a wide range of processing functions from one workstation — from image enhancement tools to comparison and review features.

Built on a Windows® 10 architecture and supporting standard image formats including TIFF, JPEG, BMP and UFF, the platform displays and aggregates multiple data sources to support faster, more confident operator decision-making.

AUGMENTED X-RAY (AXR)

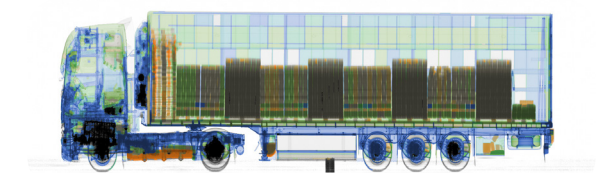


Specifically designed for high-energy, non-intrusive inspection systems, Augmented

X-Ray (AXR) extracts critical information from scan data to support fast, accurate image analysis. Operators can focus on defined areas of interest, enabling rapid identification of anomalies and concealed threats.

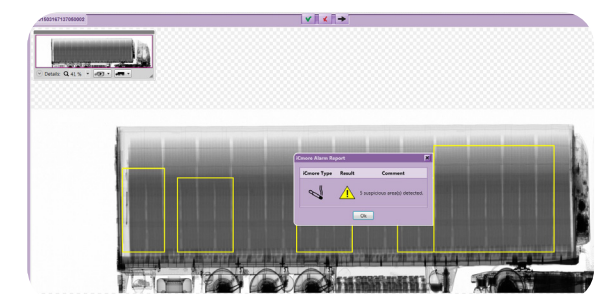
- **AXR-In Depth** calculates the position of an object within the container or vehicle.
- **AXR-Wall Removal** takes steel off the image to reveal and highlight organic materials.
- **AXR-De-Overlapping** removes overlapping items for better material discrimination of concealed objects.
- **AXR-Image Stabilisation** sharpens images to compensate for oscillation caused by uneven ground.

viZual™



Differentiate organic and inorganic materials through colour. By using advanced colourisation, the system highlights materials concealed within cargo, providing operators with clear, actionable visual information for faster and more accurate analysis.

iCMORE™



A suite of advanced software enhancements that provides image operators with automatic and assisted recognition of targets and potential threats. Current automatic detection capabilities include cigarette identification, non-homogeneous cargo recognition and empty or partially filled container detection.

Key benefits:

- Removes guesswork from image analysis
- Increases efficiency and reduces analysis time
- Directs operator attention to common threats and targets
- Clearly highlights suspicious cargo

Our range of X-ray screening systems, passenger screening and handheld solutions is designed to optimise security screening operations.

CONTAINER AND VEHICLE SCREENING



HCV

Perform inspections at any location with our high-specification mobile scanner, available as either a truck-mounted or towable trailer solution. HCV features an integrated, ergonomic operator cabin, accommodating up to eight personnel on the trailer model.

AUTOMATIC DRIVERLESS SCANNING



HCVS

Dedicated vehicle scanning facility designed for high-traffic locations, including container ports and terminals.

HIGH VOLUME SCANNING



HCV

Efficiently screen high volumes of vehicles with this stand-alone, drive-through inspection solution. Vehicles pass through the HCV at low speed, while the driver's cabin remains unscanned.



HCVT

A powerful, compact inspection platform for freight wagons and transported maritime containers. Integrated manifest verification tools reduce the reliance on manual inspections, improving efficiency and throughput.

CARGO SCREENING



HI-SCAN 180180-2IS PRO

Developed for the inspection of large-scale, consolidated and palletised goods, this system provides both vertical and horizontal views, enabling rapid and accurate image evaluation to identify threats and suspicious objects.



HI-SCAN 145180-2IS

With tunnel dimensions of 1450 mm (57") wide and 1800 mm (71") high, this system is ideally suited for inspecting air cargo transported on standard Euro, British and US pallets.

CHEMICAL AND TOXIC SUBSTANCES



IONSCAN 600

A portable, lightweight detector designed for the identification of trace explosives and narcotics. As a non-radioactive solution, it eliminates the need for specialised handling, complex procedures or additional regulatory paperwork.

Inspect containers, entire trucks, vehicles, people and their belongings for explosives, narcotics, contraband and other dangerous or illegal items.



Contact us

For product information, sales or service, visit:

www.smithsdetection.com

Smiths Detection is a global leader in threat detection and security screening technologies, dedicated to making the world a safer place. We provide advanced solutions for aviation, ports and borders, urban security, defence and the circular economy.

Our cutting-edge technologies ensure the safety of people and infrastructure. Backed by over 70 years of experience, a global footprint, and a commitment to innovation, Smiths Detection is trusted by governments, airports, and security agencies worldwide.