

smiths detection



FOCUS ON / PORTS AND BORDERS

→ SECURING  
LAND AND SEA  
BORDERS



[www.smithsdetection.com](http://www.smithsdetection.com)



“Every interaction we have with Smiths Detection is seamless and no enquiry from us is ever an issue. Our HCVM T mobile inspection system is the first of its kind to be used in Luxembourg and we operate the system with a great sense of pride, to safeguard our borders.”

Guy Loesch, Head of Security Operations  
Luxembourg Customs

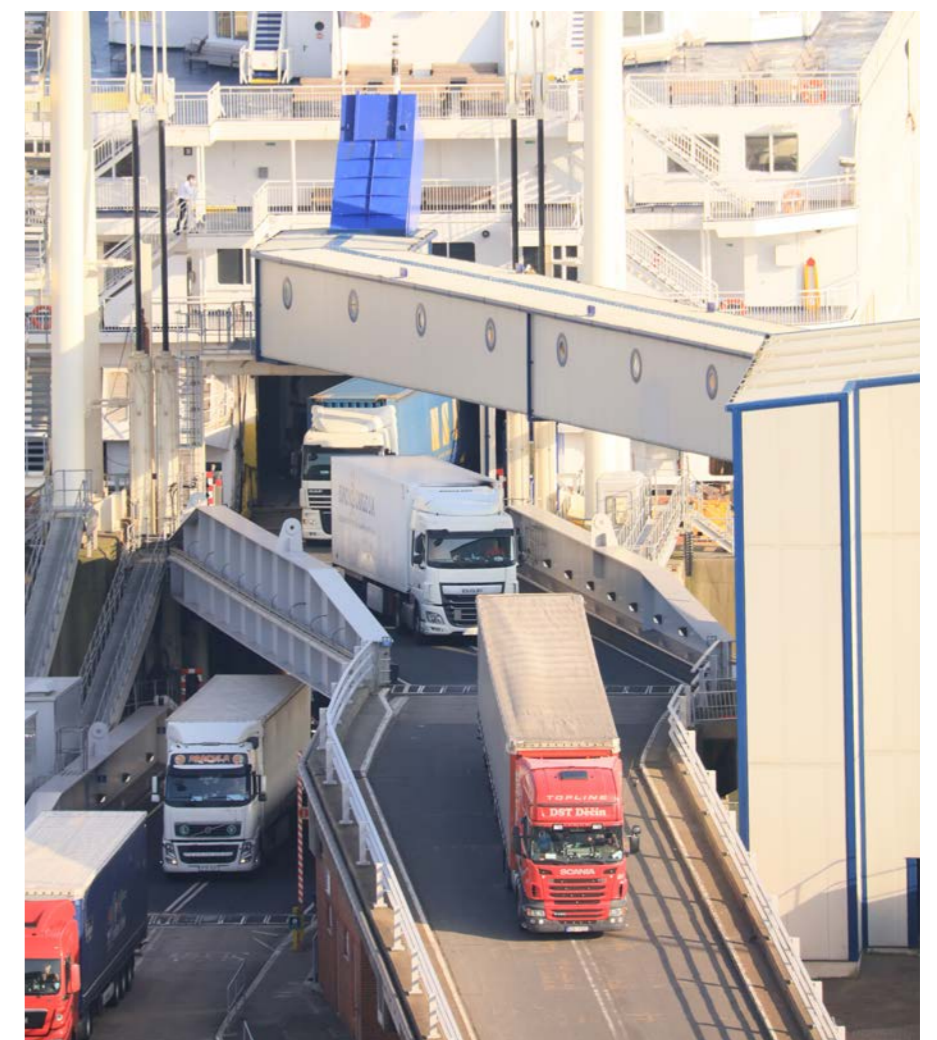
## Protect border crossing points and combat the movement of illegal and undeclared goods

Port Authorities, Customs, border protection and security professionals face ever increasing volumes of traffic at maritime ports, land border crossing points and city entrances. Often the first line of defence, they require strict controls to monitor the flow of imports, exports and transit traffic; whilst providing for faster clearance times, often with less resource availability.

The correct solutions are essential to provide efficient and non-intrusive inspections. Our systems efficiently, reliably and accurately detect and highlight concealed illicit goods and prevent costly tax evasion. Our X-ray inspection solutions deliver

unparalleled image quality, providing accurate analysis of loads, helping to highlight when further manual inspections are required. As a result inspection times are reduced; traffic-flows increase and dangerous or illegal material seizures can be effectively undertaken. Combined with our unique networking solutions, Customs, border agencies and law enforcement can share vital knowledge in a rapidly changing world.

Around the clock, around the world we protect people, infrastructure, civil and military facilities from wide-ranging CBRNE threats.

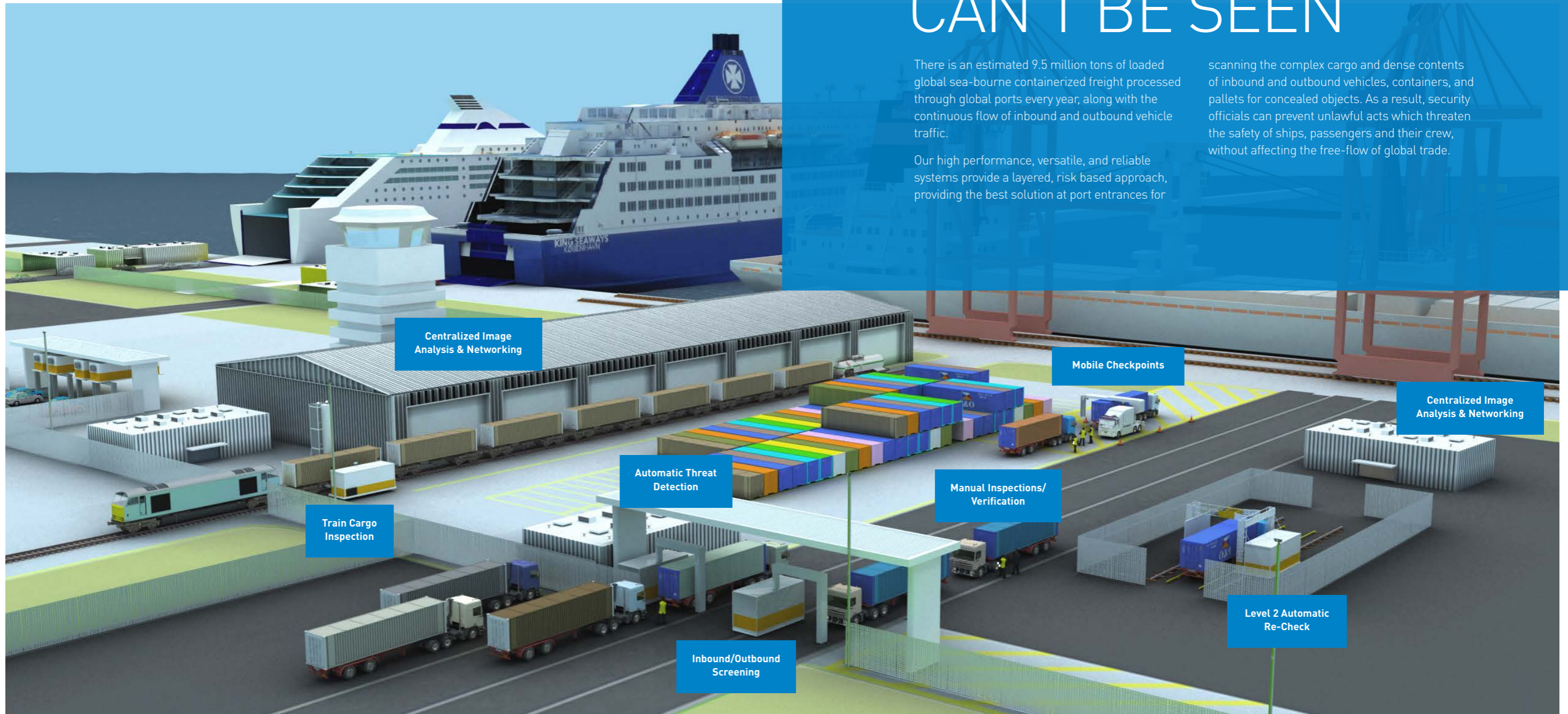


# → SPOT THE THREATS THAT CAN'T BE SEEN

There is an estimated 9.5 million tons of loaded global sea-borne containerized freight processed through global ports every year, along with the continuous flow of inbound and outbound vehicle traffic.

Our high performance, versatile, and reliable systems provide a layered, risk based approach, providing the best solution at port entrances for

scanning the complex cargo and dense contents of inbound and outbound vehicles, containers, and pallets for concealed objects. As a result, security officials can prevent unlawful acts which threaten the safety of ships, passengers and their crew, without affecting the free-flow of global trade.





# → INTERCEPT ILLEGAL TRAFFICKING

## Detect more, in less time

Customs and Border Protection officials play a vital role in protecting border crossing points especially within landlocked countries. From the entry of illegal and harmful goods, whilst ensuring a constant flow of goods, services and people. Our systems help law enforcement personnel to target illicit trafficking networks by highlighting concealed materials such as drugs, and illegal weapons hidden inside vehicles e.g. inside seats, doors, frame, fuel tanks or underneath vehicles.

Where regulations permit, low dose radiation system can scan whole vehicles and their passengers and 100% screening solutions can be easily integrated into existing road lanes, without affecting current operational procedures.

We help to keep traffic continuously moving, and highlight the threats that can't be seen through quick, efficient and reliable image analysis.

# IT'S ALL ABOUT THE IMAGE

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

Intuitive and advanced image evaluation solutions offer market leading options for the fast and effective analysis of cargo; from vehicle recognition and coloured material discrimination to the automatic detection of cigarettes and monitoring cargo for

dangerous levels of radioactive materials. With the correct tools; operators can focus on the detail, make fewer mistakes, increase efficiency and make borders safer.

Our superior images support us towards the future of automation.



## GLOBAL COLLABORATION, COOPERATION AND INFORMATION EXCHANGE

Operators can easily share all cargo data, images and files from our scanning solutions through the Dataset Management System (DMS) network, whilst optional Optical Character Recognition (OCR) cameras and software capture vehicle licence plate and/or container ID numbers, for reference against a central database.

DMS can also help to reduce time and operational costs, by supporting remote monitoring activities across multiple sites, locations and organisations as required.

## SERVICE • TRAINING • SUPPORT

We've got it covered and are with you every step of the way.

Our knowledge experts provide your staff with the required skills for the job in hand; from basic product operation and maintenance training, to customized image interpretation and advanced courses to strengthen and empower decision making capabilities.

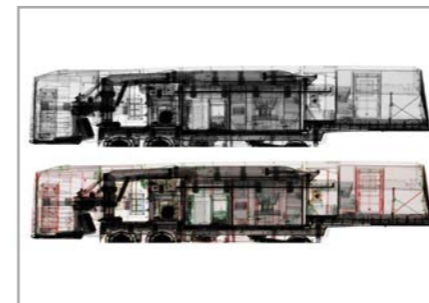
Quick and proficient global servicing and repair networks ensure your chosen solutions are effectively installed and are always fully operational, reducing delays and costly downtimes. Product lifecycles are further extended through routine and corrective maintenance, prompt spare parts delivery, and next generation software upgrades.

We pride ourselves on delivering you with superior service, to match our advanced solutions, anywhere, anytime.

## IMAGE ANALYSIS SOLUTIONS

Our intuitive and advanced software and hardware solutions offer outstanding image resolution for the fast and effective analysis of cargo. From cigarette detection to the controlled monitoring of radioactive substances.

All our HCV cargo inspection systems can be equipped with a variety of tools and options, to aid International Customs and security operators to quickly and reliably deliver detailed cargo analysis; increasing cargo throughput and protecting country borders and entry points against the illegal movement of contraband, alcohol, explosives, arms, dirty bombs and other illegal substances.



### Augmented X-ray (AXR)

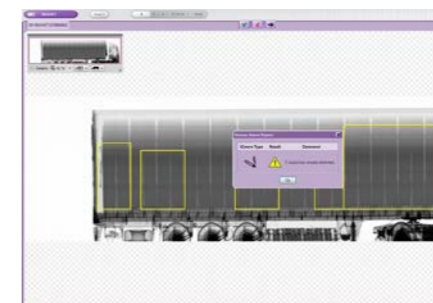
Designed specifically for high energy, non-intrusive inspection systems, critical information can be extracted from the data to support fast and accurate image analysis. Operators can focus on specific areas of interest, spotting anomalies and hidden threats quickly and efficiently.

**Depth positioning** calculates the position of an object within the container or vehicle.

**Wall removal** takes steel off the image to reveal and highlight organic materials.

**De-overlapping** removes overlapping items for better material discrimination of concealed objects.

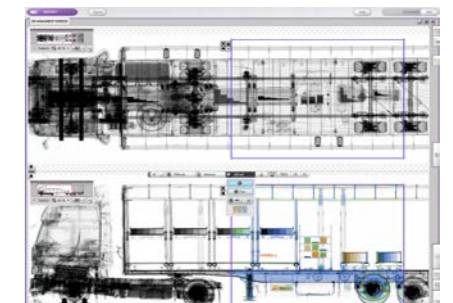
**Image stabilisation** sharpens images to compensate for oscillation caused by uneven ground.



### iCmore™

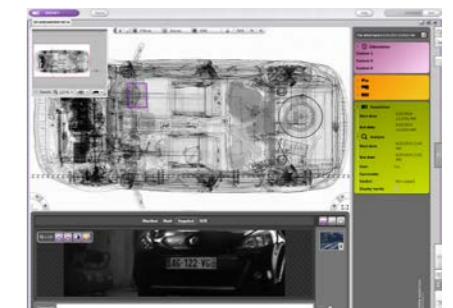
Our iCmore suite of software enhancements provide image operators with automatic or assisted recognition of targets or potential threats. Current automatic options include cigarette detection, non-homogenous and non-empty container recognition.

- Remove the guess work
- Increase efficiency and reduce analysis time
- Focus your eyes on common threats/targets
- Display suspicious cargo



### viZual™

Differentiate organic/inorganic materials through colour: viZual uses colour to highlight different materials hidden within cargo, providing operators with vital visual information.



### DaiSy™

Advanced image analysis in a single, intuitive software. Daisy was created with operators in mind. Analyse cargo with ease using various processing functions from one workstation — from image treatments to comparison tools. Based on Windows 10 architecture and supporting standard image formats (TIFF, JPEG or BMP, UFF), DaiSy displays multiple aggregated data to best support the operator decision making process.

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

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

CONTAINER AND VEHICLE SCREENING



HCVM

Perform inspections at any location with our high specification mobile scanner, available as a truck or towable trailer. HCVM incorporates a comfortable operator's cabin for up to 8 personnel (trailer model).

HIGH VOLUME SCANNING



HCVP

Screen high volumes of vehicles with this stand-alone, drive-through solution. Vehicles are driven through the HCVP at low speed (the driver's cabin is not scanned).

AUTOMATIC DRIVERLESS SCANNING



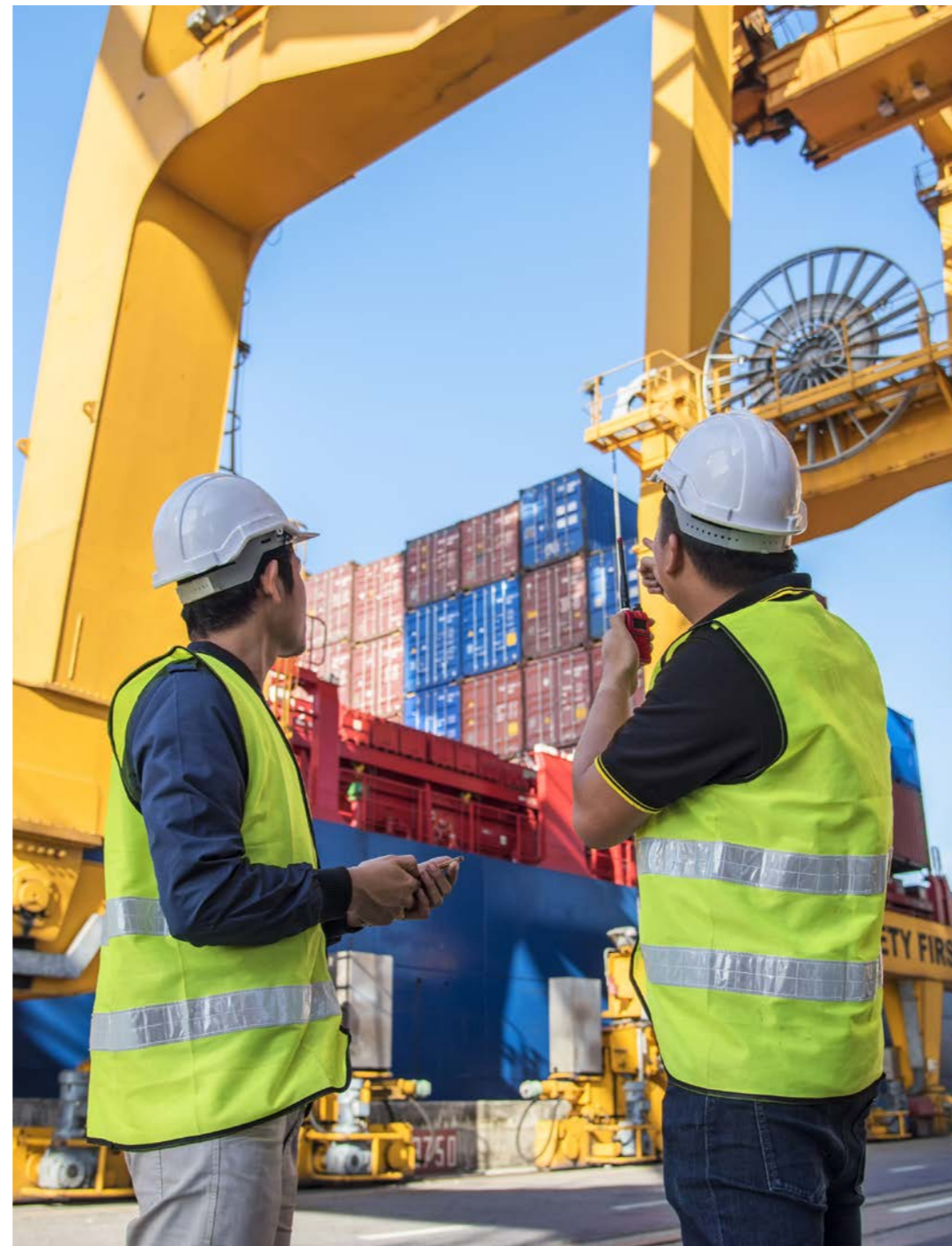
HCVS

Dedicated vehicle scanning facility for heavy traffic locations, such as container ports and terminals.



HCVT

HCVT provides a powerful, compact platform for inspecting freight wagons and transported maritime containers. Integrated manifest verification tools reduce the need for manual inspection.



CARGO SCREENING



HI-SCAN 180180-2is pro

Developed for the inspection of large-scale consolidated and palletized goods. The system provides a vertical and a horizontal view which ensures quick image evaluation to detect threats and suspicious objects.



HI-SCAN 145180-2is

The tunnel dimensions of 1450 mm (57") width and 1800 mm (71") height is especially suitable for the inspection of air cargo transported on standard Euro, British or US pallets.

CHEMICAL AND TOXIC SUBSTANCES



HazMatID Elite

High performance solution for the identification of unknown liquid and powder substances, providing alerts in 60 seconds or less.




IONSCAN 600

A portable and lightweight detector, for the identification of trace explosives or narcotics. IONSCAN 600 is non-radioactive and removes the need for specialised handling, procedures and paperwork.



Target-ID

Specifically developed to support narcotics interdiction efforts; combining power, speed, and accuracy to identify narcotics, precursors, cutting agents and common chemicals.



Smiths Detection, is a global leader in inspection and detection technologies for the air transport, ports and borders, armed forces and urban security markets. With more than 70 years of experience in the field, we offer the necessary solutions to protect society from the threats posed by explosives, biological threats, weapons, contraband, toxic chemical agents and narcotics – helping to make the world a safer place.

Smiths Detection is one of four operating divisions of Smiths Group, who for over 170 years have been pioneering progress by improving the world through smarter engineering. Smiths Group serve millions of people every year, helping to create a safer, more efficient and better connected world, across four major global markets; Energy, General Industry, Security & Defence and Aerospace. Listed on the London Stock Exchange, Smiths employs c.14,600 colleagues in over 50 countries.

For product information,  
sales or service, visit:

.....  
[www.smithsdetection.com](http://www.smithsdetection.com)  
.....

HI-SCAN, HCV, HCVM, HCVP, HCVS, HCVT, DaiSy, iCmore, viZual, IONSCAN, Target-ID, HazMatID Elite are trademarks of Smiths Detection Group Ltd.