



Air Cargo Screening

# Securing the transport chain

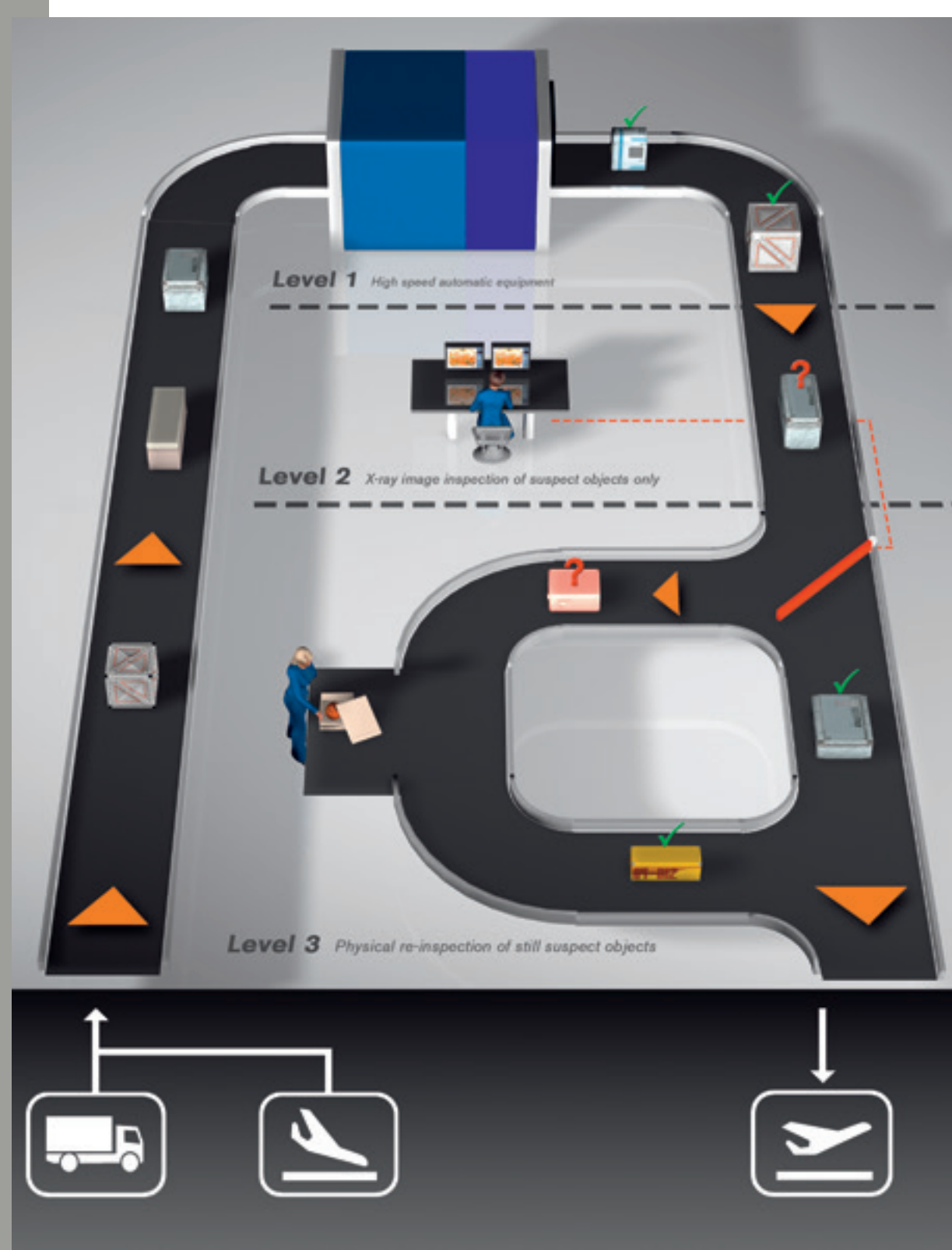
Security does not only begin at the aircraft. Security permeates the transport chain from start to finish. New standards are constantly emerging to facilitate an internationally homogeneous transportation regime. From shippers over forwarders and airliners through to industry associations and authorities, sooner or later all stakeholders in the transport chain are challenged to assure that air cargo worldwide is 100% subjected to the same thorough security checks.

Smiths Detection equipment has been fulfilling and exceeding international legislative requirements for air cargo screening and is committed to further enhance the security chain with its comprehensive range of detection solutions. A close security chain is increasingly becoming an integral part and a hallmark of quality for global trade activities in the future.

As mandated by the authorities air cargo on passenger aircraft has to be security screened. As a world leader in transportation security, notably airport X-ray systems used in the search for illegal or dangerous items, Smiths Detection is well experienced in providing air carriers and other stakeholders in the security chain with cargo security technologies tailored to fit their layer of security and to meet their respective legislative mandate.

Smiths Detection cargo screening systems are designed for screening loose, bulk, containerized or palletized configurations. Experience has shown that air cargo is very much heterogeneous, starting from air mail and small parcels up to standardized container units. Depending on the respective logistics different approaches for the inspection of freight have to be found. Smiths Detection offers adequate concepts for all different scenarios. In addition, Smiths Detection also provides services for the operator training and maintenance of the cargo screening equipment to fulfill high equipment availability requirements necessary to keep that industry running.

Smiths Detection specialists help you determine and implement the best security solution to support the processing stages for your plan.





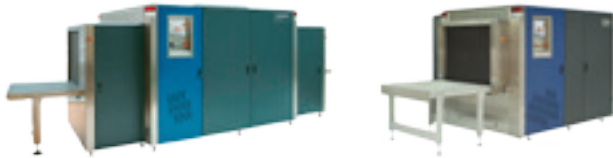


## Automatic explosives detection systems



HI-SCAN 10080 XCT

- High-speed automatic explosives detection
- First system using dual-view, dual-energy X-ray and high resolution 3D CT technology
- EU Standard 3 & TSA certified
- Best-in-class 2D and 3D image quality
- Throughput up to 1,800 items per hour
- Large tunnel opening of 107 x 81cm
- Ready for integration into automated conveyor systems



HI-SCAN 10080 EDiS & HI-SCAN 10080EDX-2is

- High-speed automatic explosives detection
- Dual-energy with dual-view (EDX-2is) & multi-view (EDiS) technology
- EU Standard 2 certified
- Throughput up to 1,800 items per hour
- Large tunnel opening of 107 x 81cm
- Ready for integration into automated conveyor systems



HI-SCAN 6040aTiX

- Automatic detection of explosives
- Analysis of  $Z_{eff}$  and density using independent views
- Maximum baggage throughput/real time evaluation
- Two high-resolution and detailed views
- High-resolution XADA sensor technology
- Fully integratable in networks for system management, archiving, image distribution and TIP functionalities

## Dual view imaging systems



HI-SCAN 100100V-2is / HI-SCAN 100100T-2is

- Ideal method of inspecting parcels and packages
- Dual-view shortens inspection times
- Smallest footprint in it's range
- Extended conveyor load
- HI-MATPlus technology for material distinction



HI-SCAN 130130T-2is

- Especially developed for the integration into conveyor systems
- Ideal method of inspecting euro pallets and freights
- Dual-view concept shortens inspection time
- Easy handling of heavy objects due to lower conveyor belt
- HI-MATPlus for better material distinction
- 250kg max. conveyor load



HI-SCAN 130130T-2is-HD

- Ideal for inspecting euro pallets and freight
- Ruggedized heavy duty roller conveyor, max. load 1000kg/m, i.e. 3500kg evenly distributed
- Dual-view concept shortens inspection times
- HI-MATPlus technology for better material discrimination



HI-SCAN 145180-2is

- Universal X-ray system for palletized items
- Compact design with small footprint
- Dual-view concept shortens inspection times
- Tunnel aperture meets TSA requirements
- Small pitch rollers support handling of heterogeneous objects
- Conveyor load up to 1000kg/m, i.e. 5000kg evenly distributed
- Excellent image presentation through optimized beam geometry



HI-SCAN 180180-2is pro

- Universal X-ray system for bulky items
- Best-in-class image quality
- High detection capabilities (typ. 75mm/AWG 37)
- Compact footprint
- Compliant with EU 300/2008, EU 185/2010, EU 687/2014
- Dual-view concept
- Small pitch conveyor



HCVP 3025

- Compact, relocatable, high throughput X-ray inspection system
- Extremely low X-ray emission rates
- Extraordinary cost/performance ratio
- Minimal security area required during scanning
- Adaptable for inspecting pallets, dollies, trucks, cars and vans
- Optional: Dual view configuration



## Explosives trace detection



### IONSCAN 600

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- Non-radioactive IMS source
- Easy to use interface requires minimal training
- Small, lightweight and portable
- Fully operational, hot-swappable battery
- Cost effective swabs



### IONSCAN 500DT

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- Simultaneous detection of explosives and narcotics
- Over 40 substances detected and identified in 8 seconds
- Large touch-screen color display
- Built-in printer
- Simplified maintenance
- Low cost of ownership



### SABRE 5000

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- Tri-mode (explosives, narcotics, CWA/TICs) detector
- Analyzes either particle or vapour samples
- Weighs 3.2kg with the standard 4-hour battery
- Automatic analysis results in seconds

## System integration



### Matrix Server

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- Fail-safe (completely redundant architecture)
- Dynamically matrix and data distribution system
- Scalable/upgradable architecture

















### HME Heimann Management Environment

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- Comprehensive system management platform
- Remote system configuration and diagnostics
- Provides analysis and statistical information

## Air cargo standards and solutions

														
<b>AUTOMATIC EXPLOSIVES DETECTION SYSTEMS</b>														
HI-SCAN 6040 aTiX	■													
HI-SCAN 10080 XCT	■	■												
HI-SCAN 10080 EDtS	■	■												
HI-SCAN 10080 EDX-2is	■	■												
<b>DUAL VIEW IMAGING SYSTEMS</b>														
HI-SCAN 100100V-2is HI-SCAN 100100T-2is	■	■	■ up to 200kg*	■	■ up to 200kg*	■ up to 200kg*								
HI-SCAN 145180-2is	■	■	■	■	■	■								
HI-SCAN 130130T-2is	■	■	■ up to 250kg*	■ up to 250kg*	■ up to 250kg*	■ up to 250kg*								
HI-SCAN 130130-2is-HD	■	■	■	■	■	■								
HI-SCAN 180180-2is pro			■	■	■	■	■ up to 3000kg*	■ up to 3000kg*	■ up to 3000kg*	■ up to 3000kg*	■ up to 3000kg*	■ up to 3000kg*	■ up to 3000kg*	
HCVP 3025					■	■	■	■	■	■	■	■	■	■

\* Standard: 2000kg/optional 3000kg

**smiths detection**  
bringing technology to life

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