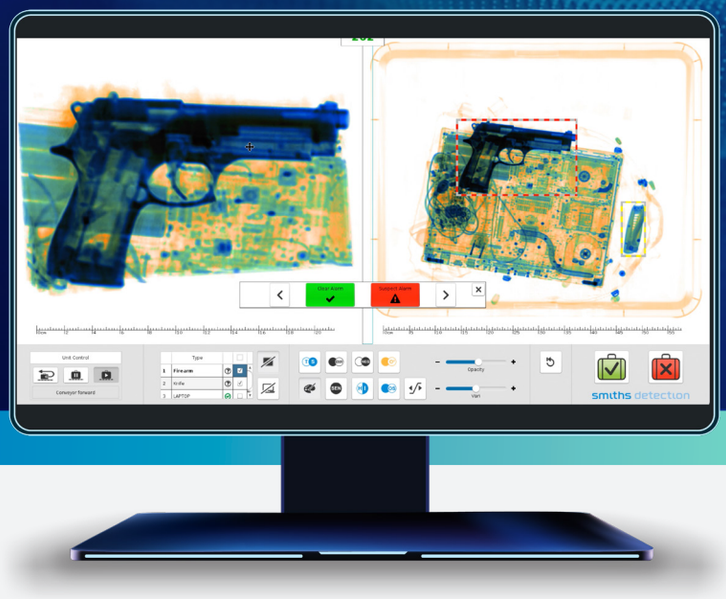
PRODUCT HIGHLIGHT

smiths detection

Accurate, Reliable Weapon Detection for Hold Baggage and Cargo

→ iCMORE Weapons



iCMORE Weapons delivers highly accurate automatic detection of guns, gun parts, ammunition, knives and grenades. It improves airport screening security levels and efficiency for both inbound and outbound hold baggage plus air cargo.

Key Benefits:

- Increases security by intercepting illegal smuggling and trafficking of weapons
- Pivotal decision-making support for image analysts
- Reduces risk of human error
- Improves operational efficiency and advances automation
- Simple and intuitive to use — little or no training required

Automatic Weapon Detection

iCMORE Weapons is part of the iCMORE family of smart and adaptable object recognition algorithms offering automatic detection of a range of weapons in hold baggage and cargo.

A Deep Learning Approach

iCMORE Weapons is part of the iCMORE family of smart and adaptable object recognition algorithms. Deep learning is fundamental to artificial intelligence (AI) and Smiths Detection took that approach in its development of this application — collaborating with customers and security authorities to build a large library of images from which the algorithms could 'learn'.

The result is accurate, reliable and powerful weapons detection, providing invaluable support for hold baggage security operators, customs officers and air cargo handlers.

Exceptional Benefits

iCMORE helps to elevate national security by preventing the illicit trafficking of weapons — including guns, gun parts, ammunition, grenades and knives. The access to proprietary raw data enables real-time detection without stopping the conveyor, with a high probability of detection and a low false alarm rate.

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It aids the decision-making process for image analysts and is particularly helpful for less experienced operators with suspicious objects highlighted via on-screen alarm frames. In addition, as AI algorithms do not tire and are impartial, the risk of human error is significantly reduced.



Automatic detection of gun parts using iCMORE Weapons

Automatic object detection algorithms can also be used to implement differentiated risk-based screening approaches by switching them on or off based on the individual requirements of controlling authorities.

Deploying iCMORE Weapons is simple and intuitive and therefore requires little or no training.

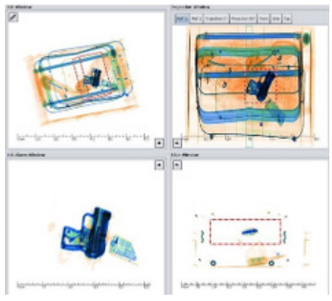
A Choice of Systems

iCMORE Weapons is available for a range of single and dual X-ray scanners and computed tomography (CT) systems, as an option on new systems and as an on-site upgrade kit. It operates alongside certified explosives algorithms without requiring re-certification and without impacting image evaluation speed.

To further enhance detection capabilities, iCMORE Weapons can be used in combination with the iCMORE Lithium Batteries for the following systems:

Single-View Systems	Dual-View Systems	Computed Tomography
		
→ HI-SCAN 100100T → HI-SCAN 100100V → SDX 100100	→ HI-SCAN 100100V-2is → HI-SCAN 100100T-2is → HI-SCAN 100100V-2is .5 → HI-SCAN 10080 EDX-2is → SDX 100100 DV	→ HI-SCAN 10080 XCT → SDX 10080 SCT

Moreover, knife detection is optional for hold baggage screening systems HS 10080 XCT and HS 10080 EDX-2is.



iCMORE Weapons Automatic detection of a gun highlighted with alarm frames

> **The automatic detection capability of iCMORE reduces the risk of human errors, increasing efficiency and further enhancing detection accuracy.**

More Automation

Intelligent object recognition algorithms could lead to a more automated screening process. iCMORE Weapons can be combined with automatic explosive detection and risk-based screening approaches.

This additional automation would improve both security levels and operational efficiency at the screening point.

An Expanding Family of Automatic Target Recognition Applications

iCMORE object recognition software, uses AI and advanced detection algorithms to ease the burden on operators and minimise potential errors by automating the detection process for suspicious items within inspected cargo, baggage or palleted goods. The iCMORE family will continue expanding to include other prohibited items and dangerous goods for checkpoint, cargo and hold baggage screening applications.

GET IN TOUCH

→ If you would like to know more about Smiths Detection digital solutions and how we help make the world a safer place, visit: **www.smithsdetection.com**

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