smiths detection

iCMORE Weapons
DELIVERING NEW LEVELS OF SECURITY

Feature Highlights

- Invaluable support for security operators
- Increased security level
- Continuous high detection rates not influenced by human factors
- Additional detection capability without impacting current certifications
- Little or no training required
- Cost-effective kit for new machines or on-site upgrades

The innovative iCMORE family of smart and adaptable object recognition algorithms offers automatic detection of an ever expanding list of dangerous, prohibited and contraband goods – including weapons.

Detecting handguns (pistols, revolvers), gun parts, ammunition, flick and fixed-blade knives (min. length ~6cm), iCMORE Weapons was developed for aviation and urban security checkpoint applications.

Which systems?

Providing invaluable support for security operators, customs officers and other controlling authorities; iCMORE Weapons is available for the HI-SCAN 6040aTiX, HI-SCAN 6040-2is and HI-SCAN 6040 CTiX scanners.

Security and operational benefits

Deep learning is fundamental to artificial intelligence (AI) and Smiths Detection took this approach in developing the weapons algorithm - collaborating with customers to build a huge library of images from which the algorithm could 'learn'.

The result is accurate, reliable and powerful detection which reduces the burden on image analysts and increases efficiency and throughput. Adding iCMORE Weapons does not impact the speed of the overall image evaluation and little or no training is required.
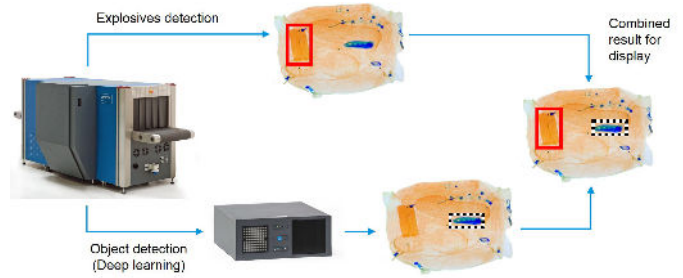
Automatic detection algorithms such as iCMORE Weapons also support risk-based screening by identifying risks based on the requirements of individual controlling authorities. They can also be adapted to meet differing security levels.
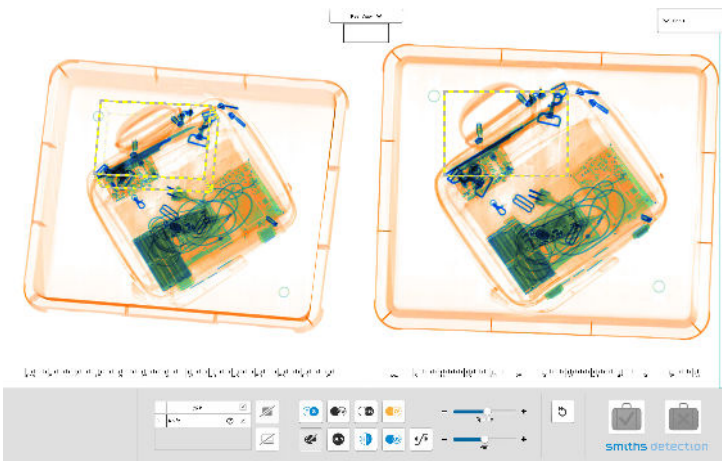
Collective results displayed on screen

Offered as an option on new systems or as an upgrade, the weapons kit for HI-SCAN 6040-2is and HI-SCAN 6040aTiX includes an external evaluation computer which hosts the detection software and is connected to the X-ray system via Ethernet cable.

The HI-SCAN 6040 CTiX does not require an external evaluation computer to run the iCMORE algorithms. They can run on the existing computer platform.
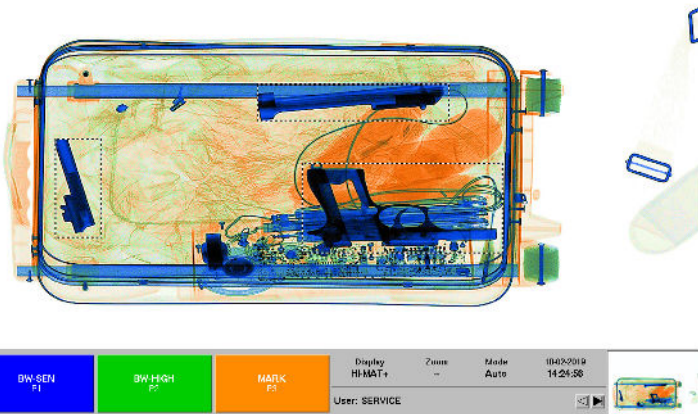
Any potential threats detected by iCMORE Weapons are framed and shown on the main system screen in tandem with the results of the explosives detection scan. This additional function does not affect any regulatory certifications or approvals.

External evaluation PC connected to HI-SCAN 6040aTiX

Knife detected by HI-SCAN 6040 CTiX using iCMORE Weapons

Disassembled gun detected by HI-SCAN 6040aTiX using iCMORE Weapons

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