

PRODUCT HIGHLIGHT / **iCMORE WEAPONS**

ACCURATE, RELIABLE WEAPON DETECTION

iCMORE weapons delivers new levels of security and efficiency

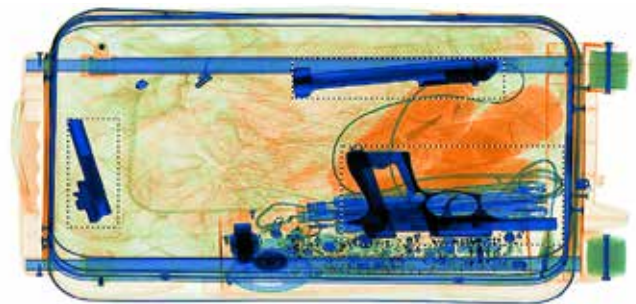
KEY BENEFITS

- accurate, reliable and powerful detection
- proprietary raw data
- invaluable support for security operators
- high probability of detection
- low false alarm rate
- supports risk-based screening

AUTOMATIC WEAPON DETECTION

iCMORE Weapons is part of the iCMORE family of smart and adaptable object recognition algorithms offering automatic detection of an ever expanding list of dangerous, prohibited and contraband goods.

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



Automatic detection of gun parts using iCMORE Weapons



HANDGUNS



GUN PARTS & AMMUNITION



FLICK KNIVES



FIXED BLADES

EXCEPTIONAL BENEFITS

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

This results in accurate, reliable and powerful detection based on proprietary raw data, providing invaluable support for security operators, customs officers and other controlling authorities. The additional detection capabilities reduce the burden on all image analysts and are particularly helpful for less experienced operators.

iCMORE Weapons delivers a high probability of detection and low false alarm rate - improving security, whilst also increasing efficiency and throughput. Automatic detection algorithms also support risk-based screening by revealing risks based on the individual requirements of controlling authorities - they are adaptable to different security levels.

Adding iCMORE Weapons does not affect any regulatory certifications or approvals and little or no training is required.



OPERATOR SUPPORT



EASY UPGRADE



HIGH DETECTION RATE



NO IMPACT ON CERTIFICATIONS



REAL TIME EVALUATION

A CHOICE OF SYSTEMS

iCMORE Weapons is available for the **HI-SCAN 6040aTiX** and **HI-SCAN 6040-2is** scanners as an option on new systems or as an on-site upgrade kit. In addition, an algorithm for the **HI-SCAN 6040 CTiX** has been developed and is now ready for customers to trial. Other systems will follow.



HI-SCAN 6040aTiX

HI-SCAN 6040-2is

HI-SCAN 6040 CTiX

Once an item has been scanned, the image is sent to an external computer where it is analysed by the iCMORE Weapons software. Potential threats are framed and shown on the main system screen in tandem with the images from the explosives detection scan.

MORE TO COME

The iCMORE family will continue expanding to include other prohibited items (e.g. blunt and sharp objects) and dangerous goods. Aimed mainly at the cargo sector, **iCMORE Lithium Battery** is already available for the **HI-SCAN 100100V-2is** and **100100T-2is**.

Introducing these new markets and applications marks an exciting departure for iCMORE, which has its roots in identifying defined threats and target substances in the high energy scanners used for large vehicles and containers at sea and land borders.

The automatic detection capability of iCMORE reduces the burden on image analysts, allowing them to focus on more important tasks—increasing efficiency and further enhances detection accuracy.