

ACCURATE, RELIABLE WEAPON DETECTION

PRODUCT HIGHLIGHT / iCMORE Weapons

iCMORE weapons delivers highly accurate automatic detection of guns, gun parts, ammunition and knives improving security levels and efficiency at checkpoints

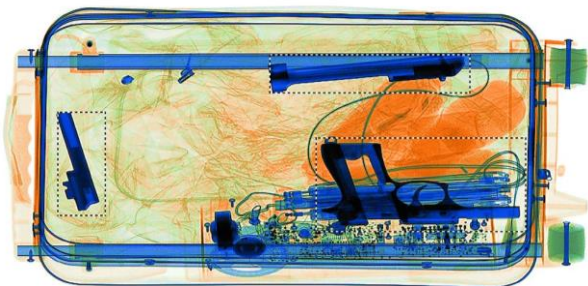
KEY BENEFITS

- Increases security and efficiency
- Invaluable support for security operators
- Real-time detection with no need to stop conveyor
- Reduction of risk of human errors
- Supports risk-based screening and more automation at the checkpoint
- 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 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 and urban security checkpoints.



Automatic detection of gun parts using iCMORE Weapons on a HI-SCAN 6040aTiX

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'.

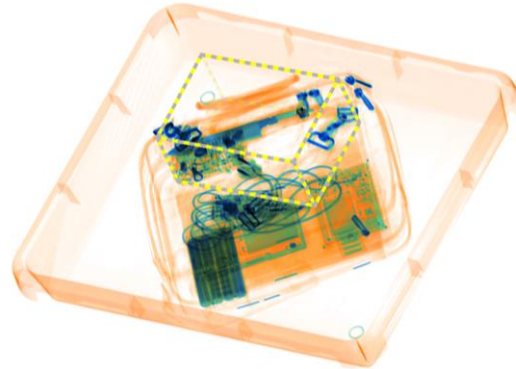
This results in accurate, reliable and powerful detection, providing invaluable support for security operators, customs officers and other controlling authorities. The access to proprietary raw data enables real-time detection with no need to stop the conveyor as well as a high probability of detection and low false alarm rate.

The additional detection capabilities provide invaluable support to all image analysts and are particularly helpful for less experienced operators. As AI algorithms do not tire and are impartial, they reduce the risk of human errors.

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

iCMORE Weapons delivers a high probability of detection and low false alarm rate - improving security, whilst also increasing efficiency and throughput.

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



Automatic detection of a concealed knife using iCMORE Weapons on a HI-SCAN 6040 CTiX

A CHOICE OF SYSTEMS

iCMORE Weapons is available for a large range of single-, dual- and multi-view X-ray scanners as well as the computer- tomography-based HI-SCAN 6040 CTiX, as an option on new systems and as an on-site upgrade kit.



Single-View Systems

HI-SCAN 5030C
HI-SCAN 6046si
HI-SCAN 6040i
HI-SCAN 6040C
HI-SCAN 7555i
HI-SCAN 7555si
HI-SCAN 100100T/V



Dual/Multi-View Systems

HI-SCAN 6040-2is
HI-SCAN 6040 DV
HI-SCAN 6040aTiX
HI-SCAN 7555aTiX
HI-SCAN 6040aX
HI-SCAN 7555aX
HI-SCAN 100100V-2is
HI-SCAN 100100T-2is
HI-SCAN 100100V-2is.5
HI-SCAN 100180 EDX-2is



Computed Tomography

HI-SCAN 6040 CTiX
HI-SCAN 10080 XCT

MORE AUTOMATION

Intelligent object recognition algorithms could lead to a more automated screening process. Especially when combined with automatic explosives detection and risk-based screening approaches, they could enable alarm-only viewing of X-ray images at checkpoints. A concept which has been in use for hold baggage screening at airports for several years already.

In addition to increasing security levels, this would also reduce operational expenditure and improve throughput.

MORE TO COME

The iCMORE family will continue expanding to include other prohibited items (e.g. blunt and sharp objects) and dangerous goods. Developed for cargo and hold baggage screening, iCMORE Lithium Batteries is already available for the HI-SCAN 10080 EDX-2is, the HI-SCAN 100100V-2is, the HI-SCAN 100100T-2is and the HI-SCAN 10080 XCT, which can also be upgraded with iCMORE Dangerous Goods to detect liquified and compressed gases as well as flammable solids and liquids.

GET IN TOUCH

If you would like to know more about iCMORE Weapons and how we help make the world a safer place, you can get in touch at:

www.smithsdetection.com/products/icmore/

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