3DX-RAY

FlatScan-Lite

- Suspect item inspection
- EOD evaluation
- Customs control
- Vehicle scanning

Portable, real-time x-ray scanning system

FlatScan-Lite is a lightweight, portable, battery powered x-ray scanning system designed in co-operation with first responders and EOD teams to meet the needs of the field operative.

Quick and simple to deploy, the system produces quality real-time x-ray images for immediate decision making.

The detector panel is positioned behind the target; the generator is placed in front.

The scan is activated from the laptop imaging station.

The 297mm x 206mm imaging area of the FlatScan-Lite enables the operator to scan typical bags and packages in a single scan.

Penetrating up to 29mm steel at 120kV the FlatScan-Lite produces sub-millimetre resolution images.

A range of sophisticated image processing functions, including materials discrimination, pan, zoom, DeepFocus™, 3D Emboss, measurement and annotation, coupled with good quality images enable the operator to interpret the image quickly and accurately.

The software can also communicate the image on screen to a remote command centre and save images in JPEG and other common file formats.

Ideal for use by First Responders, EOD teams, Counter Surveillance, and Customs and Security Operatives

The system comprises

- A resilient detector panel
- A portable x-ray generator
- A laptop imaging station
- Batteries and chargers
- Wireless communication
- Carry cases
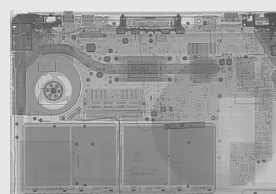- ThreatSpect software

Features

- High penetration with sub-millimetre resolution
- Real-time images
- Designed for rapid deployment and ease of use
- Powerful image enhancement and analysis tools
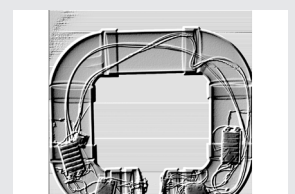- Intuitive, user-friendly ThreatSpect software

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Annotated image
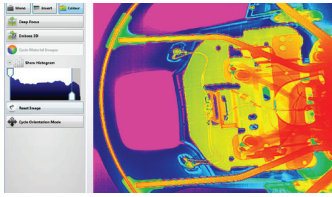

X-ray of grenade and mobile phone
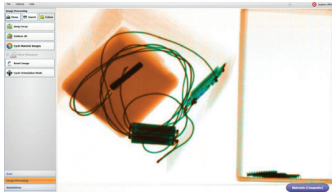

Improvised explosive device in laptop

IED Emboss

Flat**Scan**-Lite

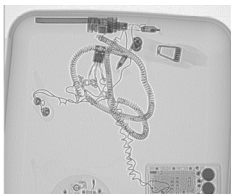
False colour

Material discrimination

K-120 generator

IED Deep Focus

FlatScan2-15 detector panel

Standard Package

	X-ray detector panel, 120kV x-ray generator, laptop computer, ThreatSpect software, batteries, chargers, wireless communication and transport cases.
	Options include: tripod, repeater stations, spare batteries and chargers, soft carry cases, wired and fibre optic cable sets.

X-Ray Detector Panel

Image / detector resolution	512 pixels, 40AWG 2.5 lp/mm
Dynamic range	4096 (12-bit)
Image acquisition / scan speed	7 sec
Detector dimensions	434mm x 253mm x 86mm (external) (L x H x D)
Imaging / scanning area	297mm x 206mm
Weight	5kg
Power	Self contained rechargeable lithium ion battery
Communication protocols	Wireless 802.11g / Bluetooth Wired or fibre optic options, TCP/IP ethernet
Operating temperature	-10˚C to +40˚C / MIL-STD-810F 501.4 and 502.4
Bump test	IEC 60068-2-29: Test Eb
Humidity	0% to 95% non-condensing
Ingress protection (water, dust)	Designed to IP55

X-Ray Generator

Type	1mA constant potential 120kV (K-120)
Power	Self contained rechargeable cells Up to 180 images on one charge (2 hour charge) Mains power option
Penetration	28mm guaranteed, 29mm typical
Weight (without battery)	6 kg
Size c/w handle (L x W x H)	470mm x 142mm x 215mm

Communications

Wireless (as standard)	802.11g / up to 50m range (extendable with repeaters)
Fibre optic (option)	100m, 150m, 200m
Ethernet (option)	25m, 50m

Imaging Station*

Type	Laptop computer (ruggedised / tablet options available) ** PC specification to be confirmed and agreed at order stage*
Processor	Intel Core i5-4200U, Dual Core
Display	15.6" Full High Definition (1366x768) LED Display with AntiGlare
Memory	4GB 1600MHz DDR3L (RAM)
Hard Drive	500GB Serial ATA Hard Drive
Optical Drive	DVD +/-RW Media Bay Drive
Operating System	English MS Windows
Power	Mains and battery

Software Features

	Adjustable x-ray source parameters (kV, mA & time)
	Standard, Inverted and False Colour images
	Rotate, Histogram, Pan, Zoom, DeepFocus™
	On-screen Measurement and Annotation (options)
	Materials Discrimination and 3D Emboss (options)
	Multi-file format import (option)
	Multi-touch functionality for tablet based operation (option)

Safety

	Physical safety interlock plus key switch
	Audible & visible warning signs

Certification & Codes

	NATO codification NSN 6350-99-152-8965