

# 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 high 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

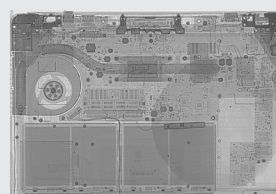
- High penetration with sub-millimetre resolution
- Real-time images
- Designed for rapid deployment and ease of use
- Powerful image enhancement and analysis tools
- Intuitive, user-friendly ThreatSpect software



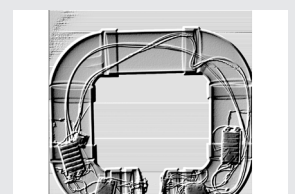
Annotated image



X-ray of grenade and mobile phone

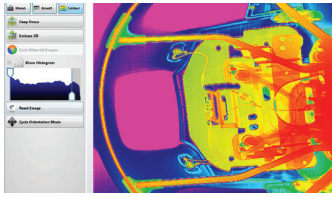


Improvised explosive device in laptop

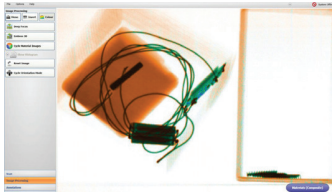


IED Emboss

# FlatScan-Lite



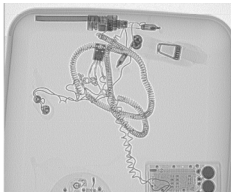
False colour



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	5 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) <i>* PC specification to be confirmed and agreed at order stage</i>
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 (option)
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

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