

FlatScan-TPXi™

SUSPECT ITEM INSPECTION EOD EVALUATION
CUSTOMS CONTROL VEHICLE SCANNING

**Portable, real-time x-ray
scanning system**



EOD deployment



Customs x-ray through car



X-ray of drugs in pipes in fuel tank



Deployment using robot

FlatScan-TPXi™ System

FlatScan-TPXi 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.

The system comprises

- A robust large detector panel
- A portable x- ray generator
- A laptop imaging station
- Batteries and chargers
- Wireless communication
- Carry cases
- Software

Options and accessories include:

Tripods, repeater stations, spare batteries and chargers, soft carrying cases, wired and fibre optic cable sets

Features

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

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

The slim detector panel is positioned behind the target; the generator is placed in front. The scan is activated from the laptop imaging station.

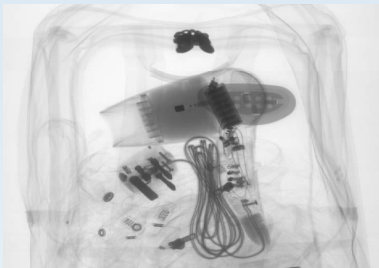
The FlatScan-TPXi's large 535 x 412mm imaging area enables the operator to scan typical bags and packages in a single scan. Penetrating up to 29mm steel at 120kV and 32mm at 160kV the FlatScan-TPXi produces sub-millimetre resolution images.

A range of sophisticated image processing functions, including materials discrimination, pan, zoom, and DeepFocus™ coupled with FlatScan-TPXi's high quality images enables the operator to interpret the image quickly and accurately.

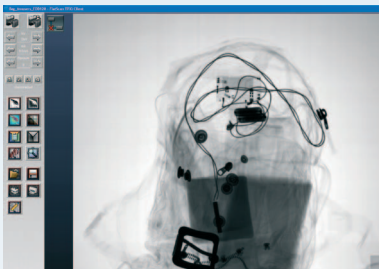
Ideal for use by First Responders, EOD teams, Customs and Security Operatives



Hairdryer in rucksack



IED in hairdryer



IED in bag: Mono mode



IED in bag: Materials discrimination mode



Tripods deployed for through vehicle scanning

Standard Package

X-ray detector panel, 120kV x-ray generator, laptop computer, software, batteries, chargers, wireless communication and transport cases

X-Ray Detector Panel

| | |
|----------------------------------|--|
| Image/ detector resolution | 512 pixels, 40AWG 1.8 lp/mm |
| Dynamic range | 4096 (12-bit) |
| Image acquisition/scan speed | 10 sec |
| Detector dimensions | 708x 605x 50mm (external) |
| Imaging/scanning area | 535 x 412mm |
| Weight | 8kg |
| Power | Self contained rechargeable cells |
| 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) | IP55 |

X-Ray Generator

| | |
|------------------|--|
| Type | 1mA constant potential 120kV (160kV option) |
| Power | Self contained rechargeable cells Up to 80 images on one charge (2 hour charge) Mains power option |
| Penetration | 120kV 25mm guaranteed, 29mm typical 160kV 28mm guaranteed, 32mm typical |
| Weight | 7.7 kg (9.3kg for 160kV option) |
| Size (L x W x H) | 120kV 446 x 155 x 227mm 160kV 496 x 155 x 227mm |

Communications

| | |
|-------------|--|
| Wireless | 802.11g, 70m range (extendable with repeaters) |
| Fibre optic | 200m |
| Ethernet | 50m |

Imaging Station

| | |
|------------------|--|
| Type | Laptop computer |
| Processor | 2.4GHz, 3MB, Dual Core |
| Display | 15.6in High Definition+ (1600 x 900) |
| Memory | RAM: 2048MB Hard Drive: 250GB Optical Drive: 8X DVD+/-RW Drive |
| Operating system | Microsoft Windows XP |
| Power | Mains and battery |

Software Features

Adjustable x-ray source parameters (kV, mA & time)
Standard and inverted images, false colour images
Rotate, Histogram, Pan, Zoom, DeepFocus™
On screen-measurements (optional)
Materials discrimination (optional)

Safety

Physical safety interlock plus key switch
Audible & visible warning signs
CE compliant

Certification & Codes

NATO codification NSN 6350-99-349-0175

In the interest of product development, 3DX-Ray Ltd reserves the right to change specifications without notice.