

# 3DX-RAY



## ThreatScan®-AS1

- Amorphous silicon panel
- EOD evaluation
- Customs control
- Vehicle scanning
- 150kV generator

Portable, real-time x-ray scanning system

**ThreatScan®-AS1 is a lightweight, very high resolution, portable amorphous silicon x-ray scanning system operated using batteries as standard and 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 extremely high quality real-time x-ray images for rapid and accurate decision making.**

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

The 430mm x 347mm imaging area of the ThreatScan®-AS1 enables the operator to scan typical bags and packages in a single scan.

A range of sophisticated image processing functions, including materials discrimination, pan, zoom, DeepFocus™, stitching, 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 robust amorphous silicon 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
- Thin amorphous silicon detector panel
- Real-time images
- Designed for rapid deployment and ease of use
- Powerful image enhancement and analysis tools
- Intuitive, user-friendly ThreatSpect software

# ThreatScan®-AS1

## Standard Package

Amorphous silicon x-ray detector panel, 150kV 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 (amorphous silicon AS1)

Image / detector resolution	13.5M pixels (4070 x 3280), 4.5lp/mm
Dynamic range	A/D conversion: 16-bits
Detector dimensions	460 x 378 x 15mm (external, LxHxD) / drop tested 1m
Detachable handle	detachable handle, portrait and landscape (2 sides)
Imaging / scanning area	347 x 430mm (14" x 17") / 5mm dead space bottom & right side
Weight	3.7kg (including battery and handle)
Power	Self contained rechargeable cells
Communication protocols	Wireless 802.11 a/b/g/n/ac WiFi standard at 2.4/5GHz
Temperature (operating)	-20°C to +55°C
Humidity (operating)	10 ~ 100% R.H. (non-condensing)
Weight on panel	Point 150kgf @ Ø 40, Whole 300kgf

## X-Ray Generator (1-Gen) - 150kV

Type	1mA constant potential 150kV
Focal spot size / Beam angle	0.5 x 0.5mm / 40° x 40°
Pre-warn	0-99 seconds
Power	Self contained rechargeable cells (2500mAh) Up to 600 images on one charge (2 hour charge) Mains power option
Weight (without battery)	5.5 kg (6.6kg including battery and handle)
Size (L x W x H)	245mm x 180mm x 80mm

## Communications

Wireless (as standard)	802.11g / up to 120m 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
Operating System	English MS Windows

## 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)
	Image Stitching (option)
	Multi-file format import (option)
	Multi-touch functionality for tablet based operation (option)

## Safety

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

[www.3dx-ray.com](http://www.3dx-ray.com)

T. +44 (0) 1509 817400 F. +44 (0) 1509 817401 E. [sales@3dx-ray.com](mailto:sales@3dx-ray.com)

3DX-RAY Ltd, 16 & 18 Hayhill Industrial Estate,  
Barrow upon Soar, Leicestershire, LE12 8LD, UK

An **IMAGE SCAN** company

Registered address: 16 & 18, Hayhill Industrial Estate,  
Barrow upon Soar, Leicestershire, LE12 8LD, UK.  
Registered in England No. 3237543.

