3DX-RAY

ThreatScan®-AS2

- Amorphous silicon panel
- EOD evaluation
- Customs control
- Vehicle scanning
- 120kV or 150kV generator

Portable, real-time x-ray scanning system

ThreatScan®-AS2 is a lightweight portable amorphous silicon x-ray scanning system. It offers high flexibility in deployment to meet the wide variety of user applications and threat scenarios.

Quick and simple to deploy and use, the system produces extremely high quality, sub-millimetre resolution images in real-time for rapid and accurate decision making.

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

The 25 x 30cm imaging area of the panel 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™, 3D Emboss, measurement and annotation) coupled with high quality images enable the operator to interpret the image quickly and accurately.

The software communicates the image on screen and images can be saved in proprietary TSM, JPEG and various other common file formats.

The standard package comprises an amorphous silicon x-ray detector panel, 120kV or 150kV x-ray generator, laptop computer, ThreatSpect software, batteries, chargers, wireless communication and transport case. Options include tripod, repeater stations, spare batteries and chargers, soft carry cases, wired and fibre optic cable sets.

Ideal for use by First Responders such as Police, Military and private and Government security agencies, EOD teams, Counter Surveillance, and Customs and Security Operatives

The system comprises

- A robust amorphous silicon detector panel
- A portable 120kV or 150kV x-ray generator
- A laptop imaging station
- Batteries and chargers
- Wireless communication
- Transport case
- 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®-AS2

X-Ray Detector Panel (amorphous silicon AS2)	
Image / detector resolution	7.66M pixels (2524 x 3036), 4.5lp/mm
Dynamic range	A/D conversion: 16-bits
Detector dimensions	333.3 x 282.5 x 15mm (external, LxHxD) / drop tested 1m
Detachable handle	detachable handle, portrait and landscape (2 sides)
Imaging / scanning area	25 x 30cm (10" x 12") / 2.8mm dead space bottom & right side
Weight	1.46kg (including battery and handle) / 1.28kg (including battery pack only)
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 +50°C
Humidity (operating)	10 ~ 100% R.H. (non-condensing)
Weight on panel	Point Load 100kg Uniform Load 200kg
Ingress protection (IP) - water / dust	IP67

X-Ray Generator (I-Gen)	120kV	150kV
Type	120kV (30-120kV) 1mA	150kV (30-150kV) 1mA
Penetration	38mm guaranteed, 40mm typical	55mm guaranteed, 60mm typical
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 225 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) * *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
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)
	Image Compare & Image Subtraction

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

Certification & Codes	
NATO	6350-99-307-5327