

# 3DX-RAY

peo DETECTION



## ThreatScan®-AS1

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

Portable, real-time x-ray scanning system

**ThreatScan®-AS1 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 43 x 35cm 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®-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	35 x 43cm (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	
Ingress protection (IP) - water / dust	IP67	
X-Ray Generator (I-Gen)		
Type	120kV	150kV
Penetration	120kV (30-120kV) 1mA	150kV (30-150kV) 1mA
Focal spot size / Beam angle	38mm guaranteed, 40mm typical	55mm guaranteed, 60mm typical
Pre-warn	0.5 x 0.5mm / 40° x 40°	
Power	0-99 seconds	
Weight (without battery)	Self contained rechargeable cells (2500mAh) / Up to 225 images on one charge (2 hour charge)	
Size (L x W x H)	Mains power option	
	5.5 kg (6.6kg including battery and handle)	
	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)	
Safety		
	Physical safety interlock plus key switch	
	Audible & visible warning signs	
	CE compliant	
Certification & Codes		
NATO	Codification NSN 6350-99-959-6054	

An **IMAGE SCAN** company