3DX-RAY

ThreatScan®-AS1

- Amorphous silicon panel
- EOD evaluation
- Customs control
- Fully integrated system
- 150kV generator

Portable, real-time x-ray scanning system

The ThreatScan®-AS1 is a fully integrated system - with a primary display, computer, communications and power supplies consolidated into a single, waterproof rugged case.

With the addition of a secondary display tablet, ThreatScan®-AS1 offers high flexibility in deployment to meet the wide variety of user applications and threat scenarios.

The AS1 is simple to use and 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. 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.

The combination of technologies used in ThreatScan®-AS1 offers exceptional x-ray imaging performance, the renowned 3DX-RAY advanced materials discrimination, and sophisticated image

processing software. 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 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 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

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 @ ∅ 40, Whole 300kgf

X-Ray Generator (I-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) * *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