



# SCANTRAK portable digital x-ray system

NATO Stock No: 6665-99-471-2849



SCANTRAK is a multiple application portable x-ray scanner used by Police, Military, EOD, Customs, Law Enforcement Agencies, Prisons and Building Security Managers.

Search and examine suspect articles on the spot

Portable and easy to set up and use in 2 minutes

Digital image transmission ensures high resolution images

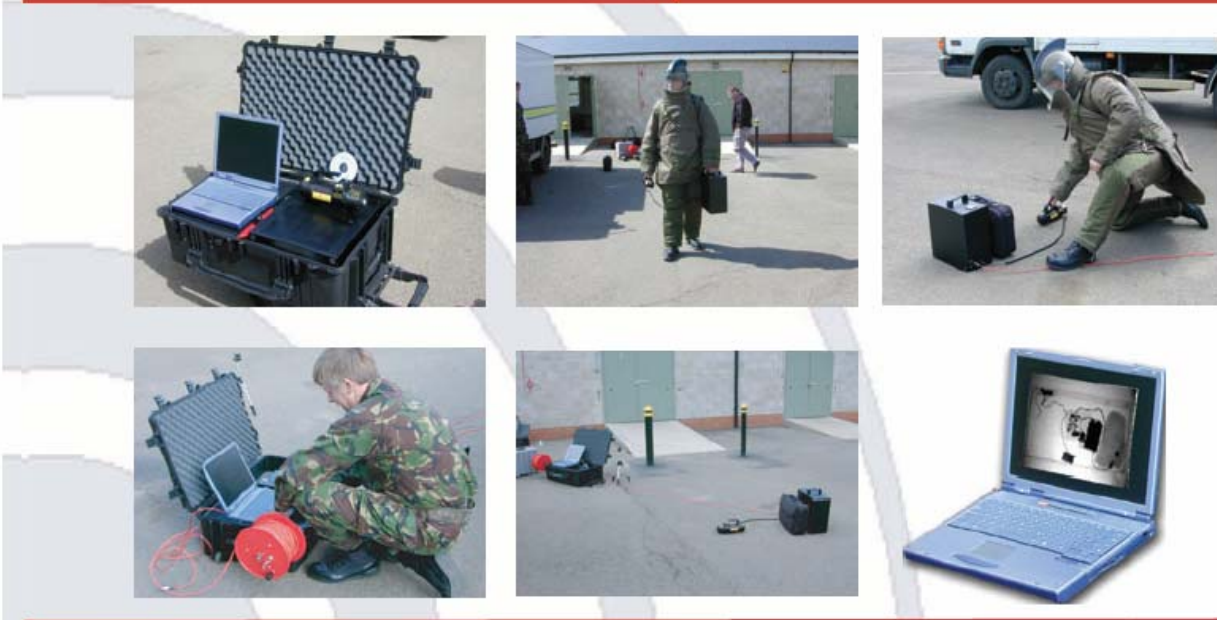
Powerful image analysis and enhancement including Zoom, Inverse b/w, pseudo-colour, rotate, 3D, sharpening, smoothing, gamma correction, histogram equalisation, summing, measure, annotation

Designed to work with XR200, XR150 and XRS-3

Image print, fax and email. Archive in excess of 32,000 images on pc or cd

Visual database of x-ray images with query and sort

Multi-language and wireless options



# X-ray Investigation and Inspection

SCANTRAK is a compact portable digital x-ray system that allows remote detection and investigation of suspect articles in a wide range of applications, including:

Bomb Disposal

Suspect Package Investigation

Check Unattended Bags

Search for Narcotics and hidden Contraband

Searching behind walls

Vehicle Inspection



Use SCANTRAK to check unattended articles, mail and parcels

Use SCANTRAK for bomb disposal



Use SCANTRAK to search behind walls, doors or vehicle panels. (hidden contraband, bug detection).

Use SCANTRAK for Non-Destructive Testing



SCANTRAK is easily set up and deployed in minutes by one person and can be configured to suit different environments. It comes with a choice of X-ray sources, adjustable exposure settings, different size ICUs and has both wireless and ROV capabilities. The system can be ruggedised for Military Applications.



Use SCANTRAK to find contraband, narcotics, weapons and IEDs



SCANTRAK penetrates exterior walls. Check items without moving them or search for weapons



Find narcotics hidden in a vehicle tyre



Works with Remotely Operated Vehicles (ROVs)

X-ray images are captured remotely direct from the notebook pc. Captured images can be enhanced using SCANTRAK image software for further analysis and interpretation.

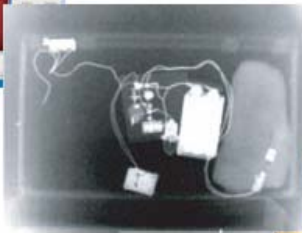


Suspicious baggage? or ordinary suitcase?

# Image Analysis



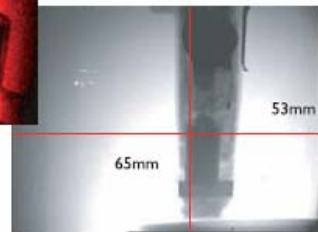
Digital x-ray images download onto pc for analysis



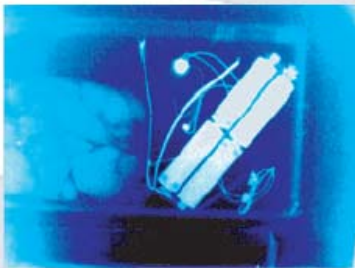
Inverse b/w image clarifies wiring



Pseudo-colour definition according to object density



Take measurements in mm or inches



Use SCANTRAK to find Explosive Devices



Remote image acquisition for safe investigation



Zoom in for close up detail



Store captured digital images on disc or pc



Build an image library

SCANTRAK's powerful image enhancement software allows fast evaluation and identification of hard-to-detect objects.

SCANTRAK offers a wide range of Image Processing Features including:

Zoom, Inverse Image, B/W, Pseudo-colour, Pseudo-3D, Contrast Enhancement, Clean Image, Rotation, Distance, Measure and Show Gradients

SCANTRAK has multi-lingual options in addition to online help and quickstart guides. Online web support also available.

SCANTRAK database software allows you to store over 32,000 images on harddisc or cd. Live and stored images can be exported by email or across a network via built in modem. A range of annotation tools allow you to insert text, notes and highlight suspect areas.

# Technical Specifications

## ScanTrak standard configuration:



XR200 or XR150 X Ray Generator  
Laptop PC  
Image Capture Unit (ICU)  
Transportation Case  
50 metre cable drum and optional wireless control  
Spare Generator Battery  
Battery Charger  
Instruction manuals



A range of x-ray sources



Notebook pc unit

Screen: Active Matrix 14.1 TFT Colour  
Processor: Pentium IV or Centrino 1.4 GHz  
Drives: Hard Disk 40 Gb  
3.5" floppy  
CD ROM with CD Writer  
Memory: 128 Mb RAM expandable  
Operating System: Windows XP (or 98/NT/ME/2000)  
Image Storage: Exceeds 32,000 stored images in .bmp or .jpg  
Power Source: 220VAC 50 Hz or Rechargeable Battery  
Record & Export Facility: Video, Audio & Data, Fax, LAN & Modem 56K

### Image Processing Features

|                          |                        |
|--------------------------|------------------------|
| Inverse image            | Histogram Equalisation |
| Pseudo-colour image      | Histocontrast          |
| Sub-image                | Grid Overlay           |
| Pseudo-3D image          | Overlay                |
| Rotate                   | Measure                |
| Clean image              | Summing                |
| Sharpen and Smooth       | Copy/Paste             |
| Edge Enhancement         | Multiple Undo          |
| Brightness and Contrast  | Image Restore          |
| Gamma Correction/Stretch | Import/Export Image    |
| Select Region            | Fax Image              |
|                          | Email Image            |

### Other tools

|  |                      |
|--|----------------------|
| Remote X-ray pulse activation  | Annotation tools     |
| Visual image database including name, date, category, place, file name | Calculator           |
| Query and sort database  | User login           |
|  | Online help          |
|  | Email, fax and print |

Due to our policy of continuous design and development, specifications are subject to change without notice



X-ray source

### Standard

**XR200:**  
150kV maximum energy  
Penetration: 15 mm steel  
Weight: 5.5 kgs with battery

### Option 2

**XR150:** pulsed X-ray with 40 beam angle  
150kV maximum energy, 23 microsievert output dose per pulse at 1m, 0.028 microsievert behind beam  
Penetration: 15mm steel.  
36 AWG or 32 AWG behind 3mm steel  
Weight: 2kgs with battery

### Option 3

**XRS-3:**  
300kV maximum energy  
Penetration: 25 mm steel  
Weight: 5.5 kgs with battery



SCANTRAK Image Capture Unit (ICU)

Standard Image Area : 8 x 10" (20.32 X 25.40 cm)  
Optional: 10 x 13" (25.4 x 33 cm)  
11 x 15" (28 x 38 cm)  
Custom sizes available

Camera Type : High Performance CCD  
Resolution : 582 x 752 pixels  
Video Signal/Noise : Better than 40 dB

### Options:

Multi-language  
Wireless

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For further info and price quote, please contact:

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