

# Scantrak

## Digital CCD Portable X-ray System



*security  
screening*

*x-ray  
imaging*

**Scantrak is a portable digital X-ray system with a range of different sized image capture units (ICUs). It is used by a variety of users which include police, military, customs and public safety agencies as well as prison and building managers to search and examine items safely in the field.**



Scantrak is easily set up and deployed within minutes by one person and can be configured for a variety of operating environments. It is supplied with a choice of X-ray generators, different size Image Capture Units (ICUs), standard, notebook or ruggedized laptops and has wireless and ROV capabilities. Operators can control the X-ray generator and capture images safely from the laptop using proprietary Scanview software. Images are transmitted instantaneously via a data transmission cable or through an optional wireless network. Multiple exposures can be taken without the need to re-approach the target. Scanview software allows images to be enhanced, stitched, rotated and stored for evidential purposes. Areas of interest can be isolated for closer scrutiny while measurement and grid tools help with Bomb Disposal tasks. Images can be annotated and exported in windows formats for report writing or printing.

## FEATURES

### Range of Imager Sizes

Scantrak comes in 4 four standard sizes: a compact 20 x 25 cm or 25 x 33 cm and larger format 28 x 38 cm and 33 x 43 cm for checking objects such as hand luggage. Custom size imagers are also available.

### Simple design

Scantrak is designed to be easy to set up and use. It combines just three core components - ICU, X-ray generator and laptop with no separate Interface box nor external battery pack required. Data is transmitted from the ICU to the laptop via standard Ethernet cable.

### Battery Operation

Scantrak systems are fully portable and all components will operate independently using a battery pack for up to 5 hours with no reliance on mains power. The charging system is integrated within the system case allowing simultaneous charging of all system components.

### Safe

The X-ray Generator is controlled from a distance using the system's Scanview software. Multiple X-rays of varying exposure times can be taken in seconds without the need to re-approach the target.

### Integrates with other EOD Components

Scantrak is compatible with the complete range of safe pulsed generators and can also be used with industrial CP generators making a straightforward upgrade from Polaroid film. Imagers and X-ray generators can be mounted and integrated with most modern Remotely Operated Vehicles (ROVs).

### No processing nor consumable costs

Upgrading to Digital DR imaging from Polaroid film means no more expensive processing and consumables costs and the ability to store and manage X-ray images digitally for better and easier report writing and record keeping.

# Scantrak

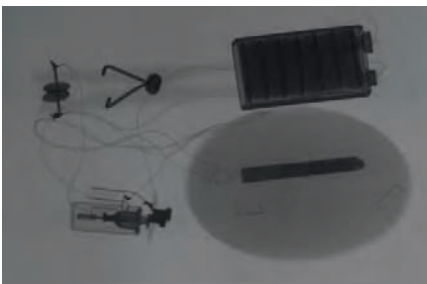
## Technical Specifications - Imaging Panels



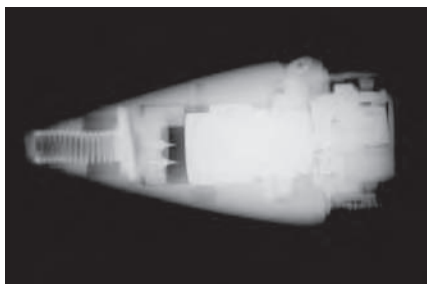
Scantrak features four sizes of image capture units, dependent on the size of the typical target object. The Imager is easy to handle either manually or by ROV.

|                | <b>Scantrak 10</b>   | <b>Scantrak 13</b>    | <b>Scantrak 15</b>    | <b>Scantrak 17</b>    |
|----------------|----------------------|-----------------------|-----------------------|-----------------------|
| Imaging Area:  | 20 x 25 cm - 8 x 10" | 25 x 33 cm - 10 x 13" | 28 x 38 cm - 11 x 15" | 33 x 43 cm - 13 x 17" |
| Imager Size:   | 180 x 330 x 340 mm   | 200 x 420 x 420 mm    | 220 x 455 x 460 mm    | 200 x 500 x 520 mm    |
| Imager Weight: | 6 kgs                | 7.1 kgs               | 7.8 kgs               | 9 kgs                 |
| Resolution:    | 582 x 752 pixels     | 582 x 752 pixels      | 582 x 752 pixels      | 582 x 752 pixels      |
| Receptor:      | CCD                  | CCD                   | CCD                   | CCD                   |

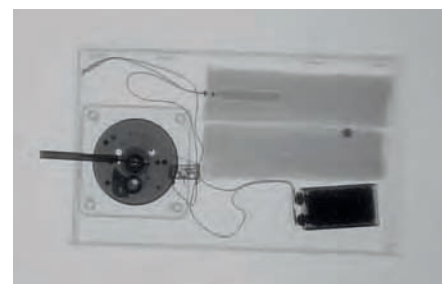
### Postal Bomb Identification



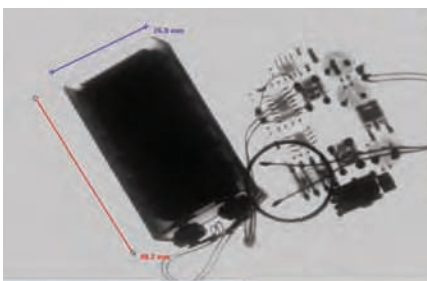
### EOD Tasks



### IED Identification



### Measurement Tools



### 3D style image







### Stitch Images



# Scantrak

## Technical Specifications - Portable X-ray Generators

| X-Ray Generator Options   | XR200 Standard Generator   |
|---|--|
|  | Applications: Police, General Security, Postal Blast Investigation |
|   | Penetration: 15mm steel  |
|  | Pulses per charge: 4,000   |
|   | Dimensions: 31.75 (l) x 11.5 (w) x 19 (h) cm                       |
|   | Weight: 5.5kgs with battery  |
|   | XR150 Lightweight Generator  |
|  | Applications: Special Forces, Light Duty Applications              |
|   | Penetration: 15mm steel  |
|   | Pulses per charge: 1,500   |
|   | Dimensions: 10.4 (l) x 8 (w) x 27.3 (h) cm                         |
|  | Weight: 2 kgs with battery   |
|   | XRS-3 Heavy Duty Generator   |
|   | Applications: Military, Counter IED, UXO Inspection, TSCM, NDT     |
|   | Standard Penetration: 26mm steel                                   |
|   | Pulses per charge: 4,000   |
| Dimensions: 35.5 (l) x 11.5 (w) x 19 (h) cm                                       |  |
| Weight: 5.5kgs with battery   |  |

### Laptop Options

- Scantrak is supplied with a high performance laptop running Windows 7 Professional 32 bit. Minimum spec: Intel Dual Core Processor, 500 GB Hard Drive, 4 Gb Memory.
- Other brand name variants and ruggedized MilSpec models with foreign keyboard and OS options are available.
- Wireless option (802.11G)



### Options

- Wireless Image Transmission 802.11g
- Wireless X-ray Trigger
- 50/100/150 m Cable Extensions
- Custom Cases and Backpackable Systems
- Foreign Language Software
- ROV Robot Integration
- Imager and Generator Tripod Mounts
- External Camera

### Scanview X-ray Imaging Software Features:

- |   |   |   |  |
|---|---|---|--|
| <ul style="list-style-type: none"> <li>• X-ray Generator selection</li> <li>• X-ray pulse setting</li> <li>• X-ray pulse Activation</li> <li>• X-ray Firing Delay</li> <li>• Password Controlled Safety Timeout</li> <li>• Accumulation of Pulses (Summing)</li> <li>• Audible and Visual Warning during X-ray activation</li> <li>• Incident Reference Creation</li> <li>• Visual database of X-ray images including name, date, category, place, file name</li> </ul> | <ul style="list-style-type: none"> <li>• Ability to back up database</li> <li>• Query and Sort in database</li> <li>• Compact Database</li> <li>• Digital Zoom</li> <li>• Vocal annotation</li> <li>• Email option</li> <li>• Battery Monitor</li> <li>• User login</li> <li>• Print</li> <li>• Fax</li> <li>• On-Screen Help</li> <li>• Multiple Zoom including zoom thumbnail window</li> <li>• Zoom to region of interest</li> </ul> | <ul style="list-style-type: none"> <li>• Inverse (polarity) image</li> <li>• Pseudo Color Images</li> <li>• 3D (Emboss) Image</li> <li>• Sharpening</li> <li>• Smoothing</li> <li>• Edge Enhancement, Find Edges</li> <li>• Clean</li> <li>• Brightness and Contrast</li> <li>• Gamma Correction/Stretch</li> <li>• Import/Export Images</li> <li>• Shaped Regions</li> <li>• Select Region</li> <li>• Annotate Images, Save Annotations</li> </ul> | <ul style="list-style-type: none"> <li>• Sub-image</li> <li>• Rotate, Flip and Mirror image</li> <li>• Histogram Equalization</li> <li>• Histocontrast</li> <li>• Overlay</li> <li>• Copy/paste</li> <li>• Multiple Undo, Image Restore</li> <li>• Measure (multiple units)</li> <li>• Calibrate measurements</li> <li>• Summing</li> <li>• Image Stitching and Cropping</li> <li>• Grid Overlay</li> <li>• Save to windows image formats</li> <li>• Foreign language options</li> </ul> |
|---|---|---|--|

